

**ACKNOWLEDGEMENT OF RECEIPT OF NOTICE OF MEETING
OF THE MAYOR AND CITY COUNCIL OF
THE CITY OF DAVID CITY, NEBRASKA**

The undersigned members of the governing body of the City of David City, Nebraska, hereby acknowledge receipt of advance notice of a regular meeting of said body and the agenda for such meeting to be held at 7:00 o'clock p.m. on the **11th day of March**, in the **meeting room of the City Office, 490 "E" Street, David City, Nebraska**. The Mayor and City Council reserve the right to enter into a closed session at any time during the meeting, in accordance with the Nebraska Open Meetings Act, even though the closed session may not be stated on the agenda.

This agenda for public inspection is available on our website at www.davidcityne.com and may be modified up to twenty-four hours prior to the opening of the meeting.

Dated this .

AGENDA AS FOLLOWS:

1. Roll Call;
2. Pledge of Allegiance;
3. Inform the Public about the location of the Open Meetings Act and the Citizens Participation Rules;
4. Minutes of the February 25, 2026, meeting of the Mayor and City Council;
5. Approval of Claims;
6. Committee and Officer Reports, Butler County Development Board Update;
7. Consider payment to Steager Lawn Service for tree cutting and contract work;*
8. Consider David City's 2026-2027 One and Six-year street plan;*
9. Consider the 6th and D Street Intersection Study findings;*
10. Consider Resolution No. 2-2026 in support of Congressional Directed Spending Request for potential funding for the Highway 15/Bruno Spur Intersection Improvements;
11. Consider Substantial Completion Certificate for Construction of Nebraska Street;*
12. Consider Change Order No. 2 from Gehring Construction and Ready-Mix Co., in the amount of (\$1,053.75) for the 2025 Nebraska Street Extension;*
13. Consider Pay Application No. 2 (Final) to Gehring Construction and Ready-Mix Co., in the amount of \$16,545.51 for the 2025 Nebraska Street Extension;*
14. Consider JEO Professional Services Agreement for 5th Street Improvements from C Street to Iowa Street;*
15. Consider Pay Application No. 31 (Final) for Velocity Contractors, Inc. in the amount of \$50,000.00 for the Water Treatment Plant Upgrades;*
16. Consider Pay Application No. 24 for BRB Contractors, Inc., in the amount of \$459,793.43 for the David City Wastewater Treatment Facility Improvements;*
17. Discuss/Consider the lift station for Tallow Acres;
18. Public hearing to consider the amendments to the Zoning Ordinance No. 1060 by amending Section 2.03 Definitions by adding and updating definitions for Agriculture, Agricultural Operations, Agricultural Sales and Service, Animal Byproducts, Animal Unit, Farm, Farming,

Feed Mill, Feedlot (Commercial), Livestock Feeding Operation (LFO), Poultry - Commercial Feeding Operation, Poultry Hatchery, and Rendering Plant, as well as amending Section 5.06 Land Use Categories/Matrix by adding Poultry Hatchery, Agricultural Processing and Manufacturing, Agricultural Processing of Food Products, Rendering Plant as permitted or conditional use permitted in Land Use Districts, and amending Section 5.08 TA -1 Transitional Agricultural District by removing commercial and industrial in Supplemental Setbacks;

19. Consider Ordinance No. 1528 amending the Zoning Ordinance No. 1060 by amending Section 2.03 Definitions by adding and updating definitions for Agriculture, Agricultural Operations, Agricultural Sales and Service, Animal Byproducts, Animal Unit, Farm, Farming, Feed Mill, Feedlot(Commercial), Livestock Feeding Operation (LFO), Poultry - Commercial, Feeding Operation, Poultry Hatchery, and Rendering Plant, as well as amending Section 5.06 Land Use Categories/Matrix by adding Poultry Hatchery, Agricultural Processing and Manufacturing, Agricultural Processing of Food Products, Rendering Plant as permitted or conditional use permitted in Land Use Districts, and amending Section 5.08 TA-1 Transitional Agricultural District by removing commercial and industrial in Supplemental Setbacks;
20. Discuss/Consider joining The Interlocal Purchasing System (TIPS);
21. Discuss/Consider amendments to the Michael Foods Agreement;
22. Discuss/Consider extending the current Mutual Aid Interlocal Agreement with Butler County for an additional six months;*
23. Consider closed session for personnel, contracts, or pending litigation (as necessary);
24. Adjourn;

Mayor Jessica J. Miller

Council President Bruce L. Meysenburg

Council Member Jeremy W. Abel

Council Member James L. Angell

Council Member Rick L. Holland

Council Member Kevin E. Woita

Council Member Keith A. Marvin

City Clerk – Treasurer Lori M. Matchett

CITY COUNCIL PROCEEDINGS
February 25, 2026

The City Council of the City of David City, Nebraska, met in open public session at 7:00 p.m. in the meeting room of the City Office, 490 E Street, David City, Nebraska. The Public had been advised of the meeting by posting in four places (City Office, US Post Office, Butler County Courthouse, and Hruska Public Library). The mayor and members of the City Council acknowledged advance notice of the meeting by signing the agenda, which is a part of these minutes. The advance notice to the Public, Mayor, and Council members conveyed the availability of the agenda, which was kept continuously current in the office of the City Clerk and was available for public inspection on the City's website. No new items were added to the agenda during the twenty-four hours immediately prior to the opening of the Council meeting.

Present for the meeting were: Mayor Jessica Miller, Council President Bruce Meysenburg, Council Members Rick Holland, Keith Marvin, Jim Angell, Kevin Woita, City Administrator Alan Zavodny, and City Clerk Lori Matchett. Council Member Jeremy Abel and City Administrator Intern Raiko Martinez were absent. City Attorney Michael Sands attended via Zoom.

Also present for the meeting were: Water Operator Daniel Sobota, Water Operator William Fiala, Account Clerk Elizabeth Parker, Police Officer Chris Baete, Ethan Joy of JEO Consulting, Travis Boyll of NMC Cat, Zach Happel of Murphy Tractor & Equipment, and Marlene Hein.

The meeting opened with the Pledge of Allegiance.

Mayor Jessica Miller informed the public of the "Open Meetings Act" posted on the west wall of the meeting room and asked those present to please silence their cell phones. Mayor Miller read the speaking guidelines for the City Council meeting. She also reminded the public that if they speak before the Council tonight, they must state their name and address for the record.

Council Member Jim Angell made a motion to approve the minutes of the February 11, 2026, meeting of the Mayor and City Council as presented. Council Member Kevin Woita seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea, Yea: 5, Nay: 0, Absent: 1

Mayor Miller reaffirmed that the City of David City has an ordinance requiring cars to be off the streets in the Downtown Area during snow removal. Letters were sent to property owners and tenants in the downtown area. With a few modifications to the snow removal route, tenants of the Wolfe Building will be allowed to park on the south side of the building by the old library, but will not be allowed to park in the middle parking or along the highway. Snow Route signs will be adjusted to reflect the new change. Apartment owners and managers have been notified of the changes.

The City of David City received three sealed bids for the purchase of a new Backhoe with the trade-in of the used Case 580SN Backhoe.

- NMC - Quoted a 416 Caterpillar with a sale price of \$116,730.00, less Gross Trade Allowance of the Case 580 SN Backhoe of \$39,200.00, Extended Warranty included, Document Fee \$0, for a Net Balance of \$77,530.00 (Extended Warranty is 5yr/2000hr Powertrain and Hydraulic - Included in Net Balance)
- Central Nebraska Bobcat - Quoted B760 T4 Bobcat Backhoe Loader with a sale price of \$142,693.00, less State Discount of \$35,985.00, less 24" Bucket of \$1,474.00, less Trade in of Case 580 of \$36,500, for a Net Balance of \$72,884.00 (2 yr/2000hr Warranty)
- Murphy Tractor & Equipment Co. Quoted a 310 P-Tier Backhoe Loader with a sale price of \$128,400.00, less Trade-In Case 580 of \$43,000.00 for a Net Balance of \$85,400.00 (5-year/2000hr Powertrain and Hydraulic Warranty was additional for \$1,971.00)

Discussed pricing, warranties, build, and parts availability.

Council Member Bruce Meysenburg made a motion to accept NMC's sealed bid to purchase a 416 Caterpillar at a net price of \$77,530.00. Council Member Kevin Woita seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Nay, Bruce Meysenburg: Yea, Kevin Woita: Yea. Yea: 4, Nay: 1, Absent: 1.



401 Northwest 56th Street
Lincoln, NE 68528
(888) 833-1455

QUOTATION

QUOTATION DATE 02/25/2026
VALID UNTIL 03/27/2026
QUOTATION ID QTO111427-9

Quoted To:

City Of David City
557 N 4th St
David City, NE 68632-1623
USA

Ship To:

City Of David City - C/O
Clerk-Treasurer/Generators
557 N 4th St
David City, NE 68632-1623
USA

Invoice Account	Order Account	Customer PO	Delivery Method	Page
1575250	1575250			1 of 3
Salesperson		Phone Number	Email Address	
Travis Boyll		402-429-3450	travisboyll@nmccat.com	

Item Information

Machine Model: 416 **Make:** Caterpillar
Machine Model: 2193383_BHL **Make:** Caterpillar
Machine Model: 2193381_BHL **Make:** Caterpillar

Machine Specification

Model: 416
Description
416 07A BHL DCA3B
LANE 1 ORDER
PRODUCT LINK, CELLULAR, PLE643
TIRES, 340 80-18/500 70-24, MX
INSTRUCTIONS, ANSI
BELT, SEAT, 2" SUSPENSION
STABILIZER PADS, FLIP-OVER
COUPLER, PG, MAN.D.LOCK, BHL
SERIALIZED TECHNICAL MEDIA KIT
SHIPPING/STORAGE PROTECTION
RUST PREVENTATIVE APPLICATOR
PACK, DOMESTIC TRUCK
GUARD, STABILIZER
PLATE GROUP, BOOM WEAR
STD RADIO (12V)
BUCKET-SOIL, 24", 8.5 FT3
BUCKET, LOADER (NONE)

Machine Specification

Model: 2193383_BHL
Description
BUCKET, 36", 10.3 FT3
PINS, BUCKET, BHL-F, 45MM-50MM

Machine Specification

Model: 2193381_BHL
Description
BUCKET, 24", 6.2 FT3
PINS, BUCKET, BHL-F, 45MM-50MM



QUOTATION

2 of 3

401 Northwest 56th Street
 Lincoln, NE 68528
 (888) 833-1455

QUOTATION DATE 02/25/2026
 VALID UNTIL 03/27/2026
 QUOTATION ID QTO111427-9

Sell Price of 416	116,730.00
Less Gross Trade Allowance for 580	-39200
Extended Warranty	Included
Document Fee	0.00
Net Balance Due	77,530.00
Sales Tax	0.00
After Tax Balance	77,530.00

Trade - Ins

Model	Make	Serial Number	Year	Trade Allowance
580	Case			39,200.00

All trade-ins are subject to equipment being in "as inspected condition" by customer at time of delivery of equipment purchase quoted above. Customer also warrants the trade-in equipment to be free and clear of all claims, liens, mortgages, and security interests except as already disclosed and noted.

Warranty

Extended Warranty: 5Yr/ 2000Hr Pwl + Hyd

Notes

Includes 1.0CY PO Bucket

DCA INCLUDES:

- 543-3339 416 07A BACKHOE LOADER CFG2
- 337-9696 COUNTERWEIGHT, 460 KGS (1015 LBS)
- 491-6734 WORKLIGHTS (8) HALOGEN LAMPS
- 542-7761 HYDRAULICS GP, 5FCN/7BNK, PT
- 542-7779 ENGINE, 70KW, C3.6 DITA, S5 (T4F)
- 542-7810 AIR CONDITIONER, S5 (T4F)
- 543-4282 STICK, EXTENDABLE, 4.3M, PILOT (14FT,)
- 543-4900 PT, 4WD/2WS STD SHIFT, PILOT
- 545-5047 DISPLAY, STANDARD
- 545-8548 LOADER BUCKET PINS
- 557-4932 CAB, STANDARD
- 611-0335 SEAT, FABRIC

Bid accepted at February 25, 2026, City Council Meeting.

Jessica Miller
 2-25-26



401 Northwest 56th Street
Lincoln, NE 68528
(888) 833-1455

QUOTATION

3 of 3

QUOTATION DATE 02/25/2026
VALID UNTIL 03/27/2026
QUOTATION ID QTO111427-9

Additional Terms

This Quotation is provided for general information purposes only and is not binding upon either party. No binding agreement shall exist unless or until the parties enter into a Sales Agreement under NMC's standard Sales and Service Terms for Caterpillar Products (a copy of which is available at <https://www.nmccat.com/legal-terms>). Any terms and conditions provided by Buyer are expressly rejected and any purchase order or other terms provided by Buyer shall be considered solely as internal documentation of Buyer and not legally binding upon NMC regardless of NMC's signature upon any such document.

Please Note: NMC cannot guarantee availability of equipment. In addition, while NMC endeavors to provide accurate pricing, due to circumstances beyond its control, such pricing is considered an estimate only of the final price and may be subject to change as market, supply, or other circumstances require (including, without limitation, OEM pending steel surcharges and OEM tariffs) until such time as the product is shipped. Should the final price exceed the estimated price, customer shall have the option to terminate the order as its sole remedy.

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Cat[®] 416

BACKHOE LOADER

The Cat[®] 416 Backhoe Loader delivers exceptional performance, increased fuel efficiency, superior hydraulic system and an updated operator station. The 416 features the following:

- **Ergonomic Operator Station** – Ample legroom inside the cab makes rotating the seat simple. The air suspension seat provides comfort to the operator while roading.
- **Joystick Controls** – Pilot joysticks are available for additional operator comfort, reduced fatigue and increased productivity. New Proportional Thumb Rollers on the Pilot Joysticks places E-Stick and Rear Auxiliary Controls at the operator's fingertips.
- **Load Sensing Hydraulics** – The Cat Backhoe Loader's load sensing piston pump provides full hydraulic lifting and digging forces at any engine speed. Variable flow pump matches hydraulic power to work demands.
- **Powershift Transmission** – A Four Speed Powershift Transmission is available to make shifting gears smooth and as simple as twisting the Powershuttle Lever.
- **Spring Applied Hydraulically Released (SAHR) Parking Brake** – A SAHR Parking Brake is available and activated at the push of a button and automatically engages when the machine is powered down.
- **Machine Performance** – The proven Cat C3.6 engine delivers solid performance and meets U.S. EPA Tier 4 Final/EU Stage V emission standards by utilizing Selective Catalytic Reduction technology with a diesel oxidation catalyst. The system allows the operator to disconnect the machine, even while the diesel exhaust fluid is being purged from the system.
- **Machine Versatility** – The all new Integrated Tool Carrier (IT Coupler) for Single Tilt Loader Arm configurations are available from the factory or for simple field installation. The Cat Backhoe Loader with Integrated Tool Carrier (IT Coupler) will be the most versatile machine on the job site providing quick connection to a variety of Cat Attachments.
- **Cat Attachments** – A large portfolio of Backhoe Loader Attachments, including but not limited to, Quick Couplers, Thumbs, assorted Buckets, and Brooms are available from the factory or for field installation. Cat Backhoe Loaders will be "Dirt Ready" upon delivery.

Specifications

Engine

Engine	C3.6 55 kW (74 hp) Electronic Turbo Intercooled		C3.6 70 kW (96 hp) Electronic Turbo Intercooled	
Ratings at 2,200 rpm				
Gross Power SAE J1995	56 kW	75 hp	72 kW	96 hp
Gross Power ISO 14396	55 kW	74 hp	70 kW	94 hp
Net Power Rating at 2,200 rpm				
SAE J1349	52 kW	70 hp	64 kW	86 hp
ISO 9249	52 kW	69 hp	64 kW	85 hp
Net Peak Power Rating @ 2,200 rpm				
SAE J1349	52 kW	70 hp	64 kW	86 hp
ISO 9249	53 kW	71 hp	64 kW	85 hp
Dimensions				
Bore	98 mm	3.86 in	98 mm	3.86 in
Stroke	120 mm	4.72 in	120 mm	4.72 in
Displacement	3.6 L	220 in ³	3.6 L	220 in ³
Torque Rise (net) at 1,400 rpm	85%		43%	
SAE J1349 Net	418 N·m	308 lb·ft	396 N·m	292 lb·ft
Power Rating Conditions				
No de-rating required up to	3048 m	10,000 ft	3048 m	10,000 ft
• Engine meets Tier 4 Final/Stage V emission standards.				



416 Backhoe Loader

Weights*

Operating Weight* (estimated)	7499 kg	16,532 lb
Operating Weight (maximum) (Rollover Protective Structure [ROPS] capacity)	11 000 kg	24,251 lb
Operating Weight (minimum)	7072 kg	15,591 lb
Cab, ROPS/Falling Object Protective Structure (FOPS)	139 kg	306 lb
Auto-Shift Transmission	122 kg	269 lb
Ride Control	15 kg	33 lb
Air Conditioning	45 kg	99 lb
All-Wheel Drive	STD	N/A
Multi Purpose (MP) bucket (0.96 m ³ /1.25 yd ³)		
with fold-over forks	915 kg	2,017 lb
without fold-over forks	745 kg	1,642 lb
Loader Quick Coupler (QC)	245 kg	540 lb
Extendible Stick (excludes ft. counterweight)	278 kg	613 lb
Counterweights, base	115 kg	256 lb
Stackable, one	240 kg	529 lb
Maximum	460 kg	1,014 lb

*Machine configuration: standard stick hoe, Open Roll Over Protective Structure (OROPS) canopy, 4 Wheel Drive (4WD) standard shift transmission, 0.96 m³ (1.25 yd³) General Purpose (GP) loader bucket, 610 mm (24 in) standard duty hoe bucket, front 340/80-18 and rear 500/70-24 tires, 240 kg (530 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.

Transmission*

Power Shuttle Transmission – Standard

Forward – 1st	5.5 km/h	3.4 mph
2nd	9.1 km/h	5.7 mph
3rd	21 km/h	13 mph
4th	38 km/h	23 mph
Reverse – 1st	5.5 km/h	3.4 mph
2nd	9.1 km/h	5.7 mph
3rd	21 km/h	13 mph
4th	38 km/h	23 mph

Power-Shift Transmission – Optional

Forward – 1st	5.9 km/h	3.7 mph
2nd	9.4 km/h	5.8 mph
3rd	20 km/h	12 mph
4th	40 km/h	25 mph
Reverse – 1st	5.9 km/h	3.7 mph
2nd	12 km/h	7.6 mph
3rd	27 km/h	17 mph

*Travel speeds of backhoe loader at full throttle, when equipped with 500/70-24 rear tires.

Axle Ratings

Front Axle, All Wheel Drive (AWD)		
Static	23 500 kg	51,808 lb
Dynamic	9000 kg	19,841 lb
Rear Axle		
Static	26 500 kg	58,422 lb
Dynamic	10 000 kg	22,046 lb

Hydraulic System

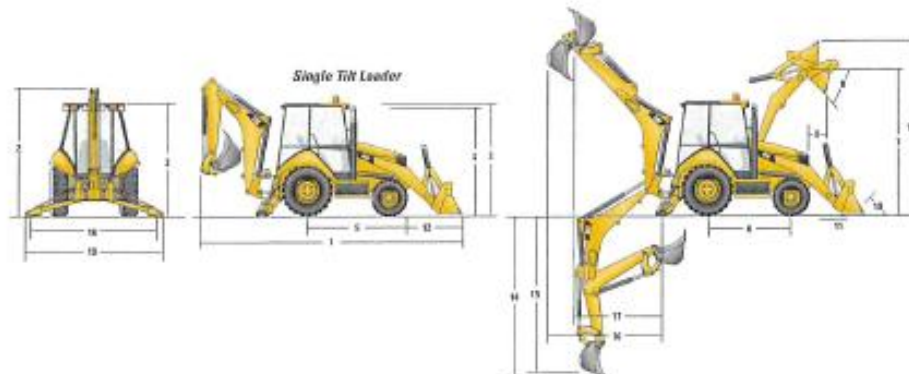
Type	Closed Center	
Pump Type	Variable-flow, Axial Piston	
Pump Capacity @ 2,200 rpm	132 L/min	34.9 gal/min
System Pressure		
Backhoe	23 000 kPa	3,336 psi
Loader	23 000 kPa	3,336 psi

Steering

Type	Front Wheel Steering	
Power Steering	Hydrostatic	
One Double-Acting Cylinder		
Bore	65 mm	2.6 in
Stroke	106 mm	4.2 in
Rod Diameter	40 mm	1.6 in
Axle Oscillation	11°	
Turning Circle – (inner wheel not braked)		
Outside Front Wheels	8.205 m	26'11"
Outside Widest Loader Bucket	10.745 m	35'3"

Service Refill Capacities

Cooling System with Air Conditioning	18.0 L	4.8 gal
Fuel Tank	160.0 L	42.3 gal
Engine Oil with Filter	9.0 L	2.4 gal
Diesel Exhaust Fluid (DEF)	19.0 L	5.0 gal
Transmission – Power Shuttle		
AWD	18.0 L	4.8 gal
Transmission – Power Shift		
AWD	19.0 L	5.0 gal
Rear Axle		
Planetaries	1.7 L	0.4 gal
Front Axle (AWD)		
Planetaries	0.7 L	0.2 gal
Hydraulic System	95.0 L	25.1 gal
Hydraulic Tank	42.0 L	11.1 gal



416 Backhoe Loader

Dimensions

Machine configuration: standard stick hoe, OROPS canopy, 4WD standard shift transmission, 0.96 m³ (1.25 yd³) GP loader bucket, 610 mm (24 in) standard duty hoe bucket, 340/80-18 and 500/70-24 tires, 240 kg (530 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.

	Single Tilt with Pin-On Buckets					
	0.76 m ³ (1.0 yd ³) GP	0.96 m ³ (1.25 yd ³) GP	1.0 m ³ (1.31 yd ³) GP	1.07 m ³ (1.40 yd ³) GP	1.0 m ³ (1.31 yd ³) MP	1.07 m ³ (1.40 yd ³) MP
1 Overall Length (loader on ground) – S-Stick – mm (ft/in)	7018 (23'0")	7131 (23'5")	7086 (23'3")	7151 (23'6")	7059 (23'2")	7059 (23'2")
Overall Length (loader on ground) – E-Stick – mm (ft/in)	7024 (23'1")	7136 (23'5")	7091 (23'3")	7157 (23'6")	7064 (23'2")	7064 (23'2")
Overall Transport Length – S-Stick – mm (ft/in)	7079 (23'3")	7162 (23'6")	7128 (23'5")	7199 (23'7")	7129 (23'5")	7129 (23'5")
Overall Transport Length – E-Stick – mm (ft/in)	7084 (23'3")	7188 (23'7")	7134 (23'5")	7205 (23'8")	7135 (23'5")	7135 (23'5")
2 Overall Transport Height – Standard Stick – mm (ft/in)	3646 (12'0")	3646 (12'0")	3646 (12'0")	3646 (12'0")	3646 (12'0")	3646 (12'0")
Overall Transport Height – Extendible Stick – mm (ft/in)	3666 (12'0")	3666 (12'0")	3666 (12'0")	3666 (12'0")	3666 (12'0")	3666 (12'0")
Overall Width – mm (ft/in)	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")
3 Height to Top of Cab/Canopy – mm (ft/in)	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")
4 Height to Top of Exhaust Stack – mm (ft/in)	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")
Height to Loader Hinge Pin (transport) – mm (ft/in)	379 (1'3")	378 (1'3")	378 (1'3")	422 (1'5")	420 (1'5")	420 (1'5")
Ground Clearance (Left Hand [LH] step) – mm (ft/in)	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")
Ground Clearance (AWD guard) – mm (ft/in)	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")
Ground Clearance (485 kg/1,070 lb counterweight) – mm (ft/in)	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")
5 Rear Axle Centerline to Front Grill – mm (ft/in)	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")
Front Wheel Tread Gauge – mm (ft/in)	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")
Rear Wheel Tread Gauge – mm (ft/in)	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")
6 Wheelbase – mm (ft/in)	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")

	Single Tilt Loader with Quick Coupler				
	0.96 m ³ (1.25 yd ³) GP	1.0 m ³ (1.31 yd ³) GP	1.15 m ³ (1.50 yd ³) GP	1.0 m ³ (1.31 yd ³) MP	1.07 m ³ (1.40 yd ³) MP
1 Overall Length (loader on ground) – S-Stick – mm (ft/in)	7312 (24'0")	7268 (23'10")	7310 (24'0")	7219 (23'8")	7219 (23'8")
Overall Length (loader on ground) – E-Stick – mm (ft/in)	7318 (24'0")	7273 (23'10")	7315 (24'0")	7225 (23'8")	7225 (23'8")
Overall Transport Length – S-Stick – mm (ft/in)	7289 (23'11")	7255 (23'10")	7287 (23'11")	7217 (23'8")	7217 (23'8")
Overall Transport Length – E-Stick – mm (ft/in)	7295 (23'11")	7261 (23'10")	7293 (23'11")	7223 (23'8")	7223 (23'8")
2 Overall Transport Height – Standard Stick – mm (ft/in)	3646 (12'0")	3646 (12'0")	3646 (12'0")	3646 (12'0")	3646 (12'0")
Overall Transport Height – Extendible Stick – mm (ft/in)	3666 (12'0")	3666 (12'0")	3666 (12'0")	3666 (12'0")	3666 (12'0")
Overall Width – mm (ft/in)	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")
3 Height to Top of Cab/Canopy – mm (ft/in)	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")
4 Height to Top of Exhaust Stack – mm (ft/in)	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")
Height to Loader Hinge Pin (transport) – mm (ft/in)	345 (1'2")	346 (1'2")	346 (1'2")	344 (1'2")	344 (1'2")
Ground Clearance (LH step) – mm (ft/in)	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")
Ground Clearance (AWD guard) – mm (ft/in)	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")
Ground Clearance (485 kg/1,070 lb counterweight) – mm (ft/in)	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")
5 Rear Axle Centerline to Front Grill – mm (ft/in)	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")
Front Wheel Tread Gauge – mm (ft/in)	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")
Rear Wheel Tread Gauge – mm (ft/in)	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")
6 Wheelbase – mm (ft/in)	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")

416 Backhoe Loader

Dimensions

Machine configuration: standard stick hoe, OROPS canopy, 4WD standard shift transmission, 0.96 m³ (1.25 yd³) GP loader bucket, 610 mm (24 in) standard duty hoe bucket, 340/80-18 and 500/70-24 tires, 240 kg (530 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.

Loader Bucket Dimensions and Performance

	Pin-On Buckets											
	0.76 m ³ (1.0 yd ³) GP		0.96 m ³ (1.25 yd ³) GP		1.0 m ³ (1.31 yd ³) GP		1.07 m ³ (1.40 yd ³) GP		1.0 m ³ (1.31 yd ³) MP		1.07 m ³ (1.40 yd ³) MP	
Capacity (SAE rated) – m ³ (yd ³)	0.76	(1.0)	0.96	(1.26)	1.00	(1.31)	1.07	(1.40)	1.00	(1.31)	1.07	(1.40)
Overall Bucket Width – mm (in)	2262	(89)	2262	(89)	2406	(95)	2262	(89)	2279	(90)	2425	(95)
Lift Capacity at Maximum Height – kg (lb)	3053	(6,730)	2962	(6,530)	2967	(6,541)	2900	(6,393)	2736	(6,032)	2724	(6,005)
Lift Breakout Force – N (lbf)	48 282	(10,854)	45 673	(10,267)	46 360	(10,422)	45 164	(10,153)	44 481	(9,999)	44 385	(9,978)
Tilt Breakout Force – N (lbf)	54 304	(12,207)	45 719	(10,278)	48 604	(10,926)	46 676	(10,493)	51 462	(11,569)	51 386	(11,551)
Tipping Load at Breakout Point – kg (lb)	6969	(15,363)	6486	(14,298)	6640	(14,638)	6387	(14,081)	6515	(14,363)	6505	(14,342)
7 Maximum Hinge Pin Height – mm (ft/in)	3488	(11'5")	3488	(11'5")	3488	(11'5")	3488	(11'5")	3488	(11'5")	3488	(11'5")
8 Dump Angle at Full Height – degrees	44°		44°		44°		44°		44°		44°	
Dump Height at Maximum Angle – mm (ft/in)	2837	(9'4")	2758	(9'1")	2790	(9'2")	2736	(9'0")	2803	(9'2")	2803	(9'2")
9 Dump Reach at Maximum Angle – mm (ft/in)	726	(2'5")	807	(2'8")	774	(2'6")	773	(2'6")	722	(2'4")	722	(2'4")
10 Maximum Bucket Rollback at Ground Level – degrees	36°		36°		36°		37°		37°		37°	
11 Digging Depth – mm (ft/in)	70	(0'3")	70	(0'3")	70	(0'3")	110	(0'4")	97	(0'4")	97	(0'4")
Maximum Grading Angle – degrees	116°		113°		114°		114°		116°		116°	
Width of Dozer Cutting Edge – mm (ft/in)	N/A		N/A		N/A		N/A		2262	(7'5")	2406	(7'11")
12 Grill to Bucket Cutting Edge, Carry Position – mm (ft/in)	1397	(4'7")	1480	(4'10")	1447	(4'9")	1518	(5'0")	1447	(4'9")	1447	(4'9")
13 Maximum Operating Height – mm (ft/in)	4206	(13'10")	4356	(14'3")	4354	(14'3")	4366	(14'4")	4378	(14'4")	4407	(14'6")
Jaw Opening Maximum – mm (ft/in)	N/A		N/A		N/A		N/A		843	(2'9")	843	(2'9")
Bucket Jaw Clamping Force – N (lbf)	N/A		N/A		N/A		N/A		37 113	(8,343)	37 214	(8,366)
Weight (does not include teeth or forks) – kg (lb)	384	(847)	451	(994)	462	(1,019)	473	(1,043)	745	(1,642)	774	(1,706)

	Single Tilt Loader with Quick Coupler									
	0.96 m ³ (1.25 yd ³) GP		1.0 m ³ (1.31 yd ³) GP		1.15 m ³ (1.50 yd ³) GP		1.0 m ³ (1.31 yd ³) MP		1.07 m ³ (1.40 yd ³) MP	
Capacity (SAE rated) – m ³ (yd ³)	0.96	(1.26)	1.00	(1.31)	1.15	(1.50)	1.00	(1.31)	1.07	(1.40)
Overall Bucket Width – mm (in)	2262	(89)	2406	(95)	2406	(95)	2279	(90)	2425	(95)
Lift Capacity at Maximum Height – kg (lb)	2579	(5,686)	2579	(5,686)	2546	(5,612)	2438	(5,375)	2402	(5,296)
Lift Breakout Force – N (lbf)	40 911	(9,197)	41 450	(9,318)	40 608	(9,129)	40 289	(9,057)	40 029	(8,999)
Tilt Breakout Force – N (lbf)	37 640	(8,462)	39 574	(8,896)	37 351	(8,396)	40 227	(9,043)	40 055	(8,904)
Tipping Load at Breakout Point – kg (lb)	5721	(12,612)	5841	(12,876)	5696	(12,556)	5811	(12,812)	5787	(12,757)
7 Maximum Hinge Pin Height – mm (ft/in)	3488	(11'5")	3488	(11'5")	3488	(11'5")	3488	(11'5")	3488	(11'5")
8 Dump Angle at Full Height – degrees	44°		44°		44°		44°		44°	
Dump Height at Maximum Angle – mm (ft/in)	2623	(8'7")	2654	(8'9")	2625	(8'7")	2690	(8'10")	2690	(8'10")
9 Dump Reach at Maximum Angle – mm (ft/in)	887	(2'11")	855	(2'10")	886	(2'11")	832	(2'9")	832	(2'9")
10 Maximum Bucket Rollback at Ground Level – degrees	37°		37°		37°		37°		37°	
11 Digging Depth – mm (ft/in)	111	(0'4")	111	(0'4")	110	(0'4")	101	(0'4")	101	(0'4")
Maximum Grading Angle – degrees	109°		110°		109°		111°		111°	
Width of Dozer Cutting Edge – mm (ft/in)	N/A		N/A		N/A		2262	(7'5")	2406	(7'11")
12 Grill to Bucket Cutting Edge, Carry Position – mm (ft/in)	1607	(5'3")	1573	(5'2")	1605	(5'3")	1535	(5'0")	1535	(5'0")
13 Maximum Operating Height – mm (ft/in)	4439	(14'7")	4406	(14'5")	4484	(14'9")	4476	(14'8")	4531	(14'10")
Jaw Opening Maximum – mm (ft/in)	N/A		N/A		N/A		843	(2'9")	843	(2'9")
Bucket Jaw Clamping Force – N (lbf)	N/A		N/A		N/A		37 136	(8,348)	37 237	(8,371)
Weight (does not include teeth or forks) – kg (lb)	447	(985)	457	(1,008)	481	(1,060)	724	(1,596)	753	(1,660)

416 Backhoe Loader

Dimensions

Machine configuration: standard stick hoe, DROPS canopy, 4WD standard shift transmission, 0.96 m³ (1.25 yd³) GP loader bucket, 610 mm (24 in) standard duty hoe bucket, 340/80-18 and 500/70-24 tires, 240 kg (530 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.

Backhoe Dimensions and Performance

	Standard Stick		E-Stick Retracted		E-Stick Extended	
14 Digging Depth, SAE (max.) – mm (ft/in)	4277	(14'0")	4317	(14'2")	5371	(17'7")
15 Digging Depth, 2438 mm (8 ft) Flat Bottom – mm (ft/in)	3899	(12'9")	3942	(12'11")	5072	(16'8")
Digging Depth, 610 mm (2 ft) Flat Bottom – mm (ft/in)	4239	(13'11")	4279	(14'0")	5334	(17'6")
Reach from Rear Axle Centerline at Ground Line – mm (ft/in)	6690	(21'11")	6726	(22'1")	7731	(25'4")
16 Reach from Swing Pivot at Ground Line – mm (ft/in)	5600	(18'4")	5636	(18'6")	6641	(21'9")
Maximum Operating Height – mm (ft/in)	5601	(18'5")	5625	(18'5")	6368	(20'11")
Loading Height – mm (ft/in)	3710	(12'2")	3667	(12'0")	4238	(13'11")
17 Loading Reach – mm (ft/in)	1841	(6'0")	1928	(6'4")	2846	(9'4")
Swing Arc	180°		180°		180°	
Bucket Rotation	205°		204°		204°	
18 Stabilizer Spread, Operating Position (center) – mm (ft/in)	3310	(10'10")	3310	(10'10")	3310	(10'10")
Stabilizer Spread, Operating Position (outside) – mm (ft/in)	3770	(12'4")	3770	(12'4")	3770	(12'4")
Stabilizer Spread, Transport Position – mm (ft/in)	2322	(7'7")	2322	(7'7")	2322	(7'7")
Bucket Dig Force – N (lbf)	59 119	(13,291)	58 289	(13,104)	58 289	(13,104)
Stick Dig Force – N (lbf)	32 374	(7,278)	32 417	(7,288)	23 800	(5,350)

Dimensions with Forks/Material Handling Arm

Fork Tine Length	1070 mm (3'6")		1220 mm (4'0")		1370 mm (4'10")	
Operating Load (SAE J1197) – kg (lb)	1758	(3,875)	1684	(3,713)	1615	(3,559)
SAE Load Center – mm (in)	535	(1'9")	610	(2'0")	685	(2'3")
Operating Load (CEN 474-4) – kg (lb)	1786	(3,938)	1771	(3,904)	1754	(3,867)
CEN Load Center – mm (ft/in)	500	(1'8")	500	(1'8")	500	(1'8")
Overall Length (A) (forks on ground) – mm (ft/in)	7647	(25'1")	7797	(25'7")	7946	(26'1")
Reach at Ground (from grill to heel of fork) – mm (ft/in)	939	(3'1")	939	(3'1")	938	(3'1")
Maximum Reach (from grill to heel of fork) – mm (ft/in)	1524	(5'0")	1524	(5'0")	1524	(5'0")
Fork Height at Maximum Reach – mm (ft/in)	1619	(5'4")	1619	(5'4")	1619	(5'4")
Reach at Maximum Height (from grill to heel of fork) – mm (ft/in)	749	(2'5")	749	(2'5")	749	(2'5")
Maximum Fork Height – mm (ft/in)	3418	(11'3")	3418	(11'3")	3418	(11'3")
Maximum Fork Depth (below ground level) – mm (ft/in)	-38	(-1'11")	-38	(-1'10")	-39	(-1'10")

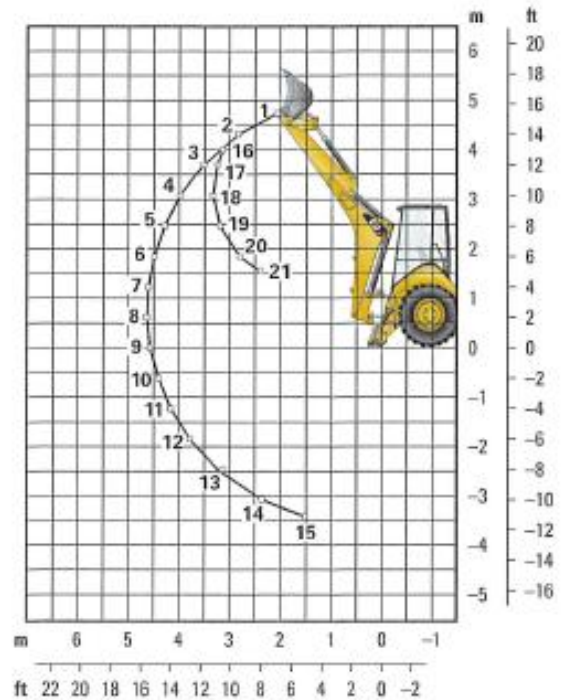
Material Handling Arm Position	Retracted		Mid-Position		Extended	
Operating Load (SAE J1197 and CEN 474-4) – kg (lb)*	1091	(2,404)	733	(1,615)	531	(1,171)
Overall Length, Maximum – mm (ft/in)	8903	(29'3")	9903	(32'6")	10 901	(35'9")
Reach at Maximum Depth (from machine nose) – mm (ft/in)	544	(1'9")	550	(1'10")	557	(1'10")
Maximum Depth – mm (ft/in)	2618	(8'7")	3618	(11'10")	4616	(15'2")
Maximum Reach (from machine nose) – mm (ft/in)	3221	(10'7")	4221	(13'10")	5219	(17'1")
Height at Maximum Reach – mm (ft/in)	1118	(3'8")	1124	(3'8")	1130	(3'8")
Reach at Maximum Height (from machine nose) – mm (ft/in)	1783	(5'10")	2473	(8'1")	3161	(10'4")
Maximum Height – mm (ft/in)	4445	(14'7")	5169	(16'11")	5891	(19'4")

*These numbers are hydraulically limited.

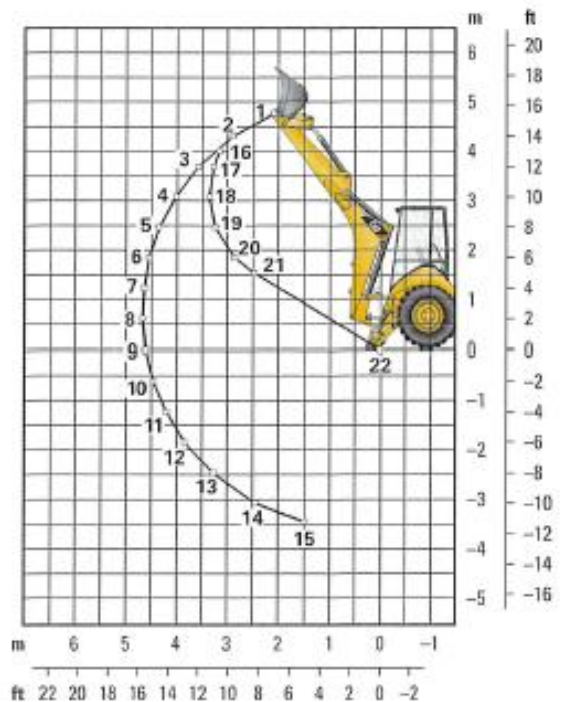
416 Backhoe Loader

Backhoe Lift Capacity

Cat 416 Standard Stick		
Boom Lifting	kg	lb
1	1334	2,941
2	1426	3,144
3	1407	3,101
4	1353	2,983
5	1292	2,849
6	1232	2,716
7	1174	2,589
8	1120	2,469
9	1069	2,358
10	1022	2,254
11	979	2,158
12	939	2,071
13	905	1,996
14	885	1,952
15	916	2,019
Stick Lifting		
16	1568	3,456
17	1916	4,224
18	2328	5,133
19	2436	5,371
20	2084	4,635
21	3540	7,805



Cat 416 Extendible Stick – Retracted		
Boom Lifting	kg	lb
1	1157	2,551
2	1235	2,722
3	1208	2,664
4	1153	2,541
5	1091	2,404
6	1029	2,269
7	970	2,139
8	915	2,017
9	863	1,902
10	814	1,794
11	768	1,692
12	725	1,597
13	684	1,509
14	650	1,432
15	647	1,427
Stick Lifting		
16	1423	3,138
17	1754	3,866
18	2128	4,692
19	2226	4,908
20	2629	5,796
21	3189	7,030
22	0	0

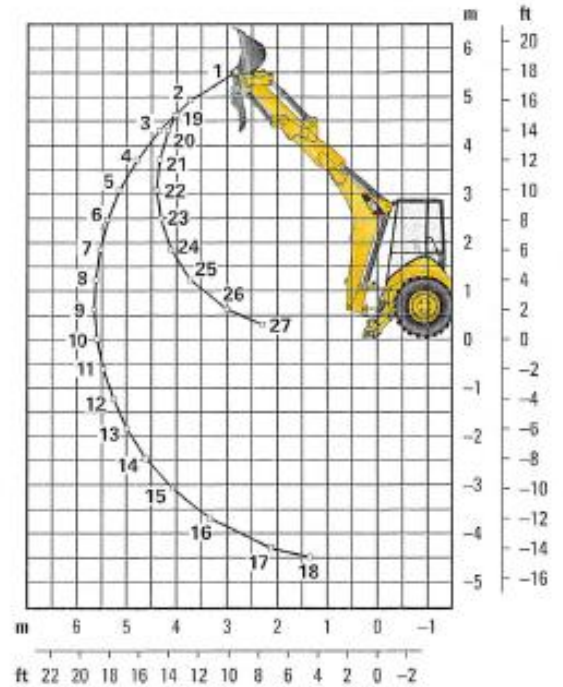


Lift capacities are over-end values calculated according to SAE J31. Values are 87% of the maximum lift force available.
 Machine equipped with AWD, OROPS, 0.96 m³ (1.25 yd³) general purpose bucket and no counterweight.
 Extendible stick includes 460 kg (1,015 lb) counterweight.

416 Backhoe Loader

Backhoe Lift Capacity

Cat 416 Extendible Stick – Extended			
Boom Lifting		kg	lb
	1	640	1,412
	2	771	1,700
	3	802	1,767
	4	799	1,761
	5	782	1,724
	6	759	1,673
	7	733	1,616
	8	706	1,557
	9	680	1,498
	10	654	1,442
	11	630	1,388
	12	607	1,339
	13	587	1,295
	14	571	1,259
	15	561	1,237
	16	566	1,248
	17	648	1,429
	18	867	1,911
Stick Lifting			
	19	597	1,316
	20	767	1,692
	21	1008	2,222
	22	1178	2,597
	23	1322	2,915
	24	1479	3,260
	25	1711	3,773
	26	2305	5,082
	27	3506	7,730



Lift capacities are over-end values calculated according to SAE J31. Values are 87% of the maximum lift force available.
 Machine equipped with AWD, OROPS, 0.96 m³ (1.25 yd³) general purpose bucket and no counterweight.
 Extendible stick includes 460 kg (1,015 lb) counterweight.

416 Backhoe Loader

Counterweights (Minimum Counterweight Recommendations)

Standard Stick Loader Bucket	Pin-On Bucket		Loader QC	
	kg	lb	kg	lb
GP	115	255	0	0
MP	0	0	0	0
Forks	N/A	N/A	0	0
Material Handling Arm	N/A	N/A	0	0

Extendible Stick Loader Bucket	Pin-On Bucket		Loader QC	
	kg	lb	kg	lb
GP	460	1,015	240	530
MP	115	255	0	0
Forks	N/A	N/A	240	530
Material Handling Arm	N/A	N/A	240	530

Backhoe Buckets (With weld on adapters and pin-on teeth)

Standard Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	80	2.8	111	245	3
457	18	120	4.2	122	268	4
610	24	180	6.4	141	311	5
762	30	230	8.1	157	345	5
914	36	290	10.2	176	388	6

Heavy Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	80	2.8	121	266	3
406	16	110	3.9	128	282	3
457	18	120	4.2	135	299	4
610	24	180	6.4	160	353	5
762	30	230	8.1	177	391	5
914	36	290	10.2	201	443	6

Soil Excavation

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
457	18	180	6.4	155	341	4
610	24	240	8.5	182	402	5
762	30	320	11.3	206	454	5
914	36	380	13.4	233	513	6

Rock

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	70	2.5	127	279	3
457	18	130	4.6	146	322	4
610	24	200	7.1	174	384	5
762	30	270	9.5	197	434	5
914	36	330	11.7	224	493	6

Coral

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft ³	kg	lb	
305	12	60	2.1	134	295	4
457	18	100	3.5	155	341	6
610	24	140	4.9	182	402	8
762	30	190	6.7	210	463	10

416 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO₂ equivalent of 2.3 metric tonnes (2.5 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

Operator Sound Pressure Level (ISO 6396:2008) – 76 dB(A)*

Exterior Sound Power Level (ISO 6395:2008) – 101 dB(A)

- *Measurements were conducted with properly installed and maintained cab doors and windows closed.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Save fuel and reduce your greenhouse gas emissions with efficiency features such as operator control modes selectable through the display and with fuel management modes.
 - Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
 - Auto Idle helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	60.51%
Iron	16.77%
Nonferrous Metal	3.29%
Mixed Metal	0.63%
Mixed-Metal and Nonmetal	1.03%
Plastic	2.13%
Rubber	3.01%
Mixed Nonmetallic	0.03%
Fluid	4.17%
Other	6.33%
Uncategorized	2.10%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 92%

416 Standard Equipment

STANDARD EQUIPMENT

- Air cleaner
- Alarm, back-up
- Audible system fault alarm
- Backhoe controls, mechanical two lever
- Battery, maintenance-free, 850 CCA
- Battery disconnect switch
- Boom transport lock
- Brace, lift cylinder
- Brake, parking, mechanical
- Brakes, hydraulically boosted, oil disc, dual pedals, interlocking
- Bucket level indicator
- Canopy, ROPS/FOPS
- Coat restraint
- Coolant/antifreeze, extended life
- Counterweight, bumper
- Dome light (cab only)
- Diagnostic port for engine
- Differential lock, loader joystick
- Drink holders, two
- Engine, Cat C3.6 (Direct Injection Turbocharged), meets Tier 4 Final/Stage V emission standards, Selective Catalytic Reduction, Diesel Oxidation Catalyst (DOC)
- Engine enclosure, sound suppression, removable side panels
- Face seals, O-ring
- Fan, suction and guard
- Fast reversing shuttle, all gears
- Fenders, rear
- Filters, spin-on: fuel, engine oil, transmission oil, water separator
- Filters, bowl and cartridge: hydraulic fluid
- Flashing hazards/signal lights
- Floor mat
- Four wheel drive
- Four wheel drive shaft guard
- Fuel tank, fully enclosed
- Fully hinged front grill for cooling package cleaning access
- Gauge cluster: coolant temperature, fuel level, torque converter temperature, DEF level
- Ground level fuel fill and DEF fill
- Halogen lights, working (2 front, 2 rear)
- High ambient cooling package
- Hood lock, inside cab
- Hydraulic hose, XT™
- Hydraulic oil cooler
- Hydraulic oil level sight gauge
- Hydraulic valves, loader 2 function
- Hydraulic valves, backhoe 4 function
- Hydraulics, load sensing with variable displacement piston pump
- Indicator lights: wait to start, water in fuel, engine warning, warning lamp, emissions module malfunction, low battery/charging system warning, high hydraulic oil temperature: LCD warnings: engine oil pressure, machine locked, service due, air filter blocked, high coolant temperature, auto idle shutdown, high torque converter temperature, hydraulic filter bypass
- Instrument panel lights
- Key start/stop system
- LCD operator display with soft key controls: engine speed, hour meter, gear/direction, battery voltage, hydraulic oil temperature, torque converter temperature, coolant temperature, trip totals (fuel and hours), lifetime totals (fuel and hours), operator settings (units, brightness, programmable hoe auxiliary flow), service mode diagnostics, maintenance intervals, ECM/system info
- Loader, self-leveling, return-to-dig and transmission disconnect switch
- Loader, single tilt
- Mechanical two lever controls
- Mirror, interior, rearview
- Open circuit breather
- Power receptacle, 5 volt USB, 1 internal
- Power receptacle, 12 volt, 2 internal, 1 external
- Power steering, hydrostatic
- Product Link™, cellular, network manager
- Product Link, satellite, network manager
- Seat belt, retractable, 51 mm (2 in)
- Socket, two roof
- Stabilizer shoes, street
- Steering column, tilting
- Steering knob
- Seat, air suspension, vinyl cover, with armrest
- Starting system, glow plugs
- Storage compartment, lockable
- Storage tray
- Stop and tail lights
- Swing transport lock
- Tilt steering column
- Tires
- Toolbox, external, lockable
- Torque converter
- Throttle, hand and foot, electronic
- Transmission, four speed, manual, synchromesh
- Transmission neutralizer switch
- Transport tie-downs
- Vandalism locks, four
- Warning horn, electric

416 Optional Equipment

OPTIONAL EQUIPMENT

- Auxiliary hydraulics, rear, adjustable flow
- Battery, additional, 850 CCA
- Brake, parking, Spring Applied Hydraulically Release (SAHR)
- Cab, standard
- Cold weather fuel (-30° C/-22° F)
- Cold weather package, including additional battery, engine block heater, radiator antifreeze (-50° C/-58° F), cold weather fuel (-30° C/-22° F) and mounting for an ether bottle
- Counterweights, 115 kg (255 lb), 240 kg (530 lb) or 460 kg (1,015 lb)
- Fenders, front with integral steps
- Guard, boom protection plate
- Guard, stabilizer, rock
- Hydraulic valves, loader (3rd valve for MP or Quick Coupler)
- Hydraulic valves, backhoe (5th and 6th function)
- Hydraulic lines, combined function auxiliary
- Joystick controls: pilot operated, excavator style with pattern changer
- LED lights, working (2 front, 2 rear)
- Pattern changer, in cab
- Quick Coupler, hydraulic, dual lock
- Quick Coupler, manual, dual lock
- Quick Coupler, manual, pin lock
- Radio and CD player, Bluetooth®
- Ride Control
- Rotating beacon, magnetic mount
- Seat, air suspension, fabric with armrest
- Seat belt, retractable, 75 mm (3 in)
- Security system, Bluetooth
- Security System, operator display
- Side mirrors, cab, external
- Single Tilt Loader Coupler, Integrated Tool Carrier (IT) Interface
- Stabilizer pads, grouser type
- Stabilizer pads, reversible
- Stick, extendible
- Transmission, 4 speed, powershift
- Vandalism protection, gauge cover
- Work Tool Attachments such as buckets, forks, material handling arms, augers, hammers, brooms, cold planers and vibratory plate compactors. See your Cat dealer for more information.

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AEHQ8242-03 (01-2024)
Replaces AEHQ8242-02
Build Number: 07A
(North America)



Ethan Joy of JEO Consulting Group introduced himself and informed the council about the status of the work needed to complete the Water Treatment Plant Upgrades. Two items are still listed as incomplete: a heater thermostat and a small PVC leak ahead of the CIP vault.

Council Member Keith Marvin made a motion to table Pay Application No. 31 (Final) for Velocity Contractors, Inc., in the amount of \$50,000 for the Water Treatment Plant Upgrades. Council Member Kevin Woita seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea, Yea: 5, Nay: 0, Absent: 1

Ethan Joy spoke about the plans, specifications, and documents for the David City Ballfield Restroom Addition. The plans and specs for the new restroom building include six women's stalls, four men's stalls, two urinals, a wash-down interior, and baby-changing stations in both men's and women's. There was a discussion about tornado shelter standards. It was decided to keep this as a standard restroom building. The Grant requires completion by early September.

Recreation Director Will Reiter was unable to attend the Council Meeting; he submitted a letter of recommendation.

**City of David City
Recreation Department**

Date: February 24th, 2026

To: Mayor and City Council
From: William Reiter, Recreation Director
Re: David City Ballfield Restroom Addition – Plan Approval Recommendation

I will be unable to attend the upcoming City Council meeting due to a previously scheduled County Planning Commission hearing and meeting.

After reviewing the construction plans for the David City Ballfield Restroom Addition and consulting with the project engineer, I recommend approval of the project contingent upon the inclusion of ventilation for the lean-to roof area that will enclose the new restroom.

Because the restroom addition will convert previously open space into an enclosed ceiling cavity, proper intake and exhaust ventilation is necessary to prevent moisture accumulation and to ensure long-term building durability. The project engineer has acknowledged this need and indicated that ventilation will be added to the plans.

This recommendation is intended to protect the City's long-term maintenance interests while allowing the project to proceed without delay.

Respectfully submitted,

William Reiter



Recreation Director
City of David City

Council Member Keith Marvin made a motion to approve the plans, specs, and contract documents and to authorize advertising for bids, contingent on adding ventilation. Council Member Bruce Meysenburg seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea. Yea: 5, Nay: 0, Absent: 1



JEO CONSULTING GROUP INC
JEO ARCHITECTURE INC

**PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS
FOR
DAVID CITY BALLFIELD RESTROOM ADDITION
FOR
DAVID CITY, NEBRASKA**

Engineering
Architecture
Surveying
Planning
Funding

**PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS
FOR
DAVID CITY BALLFIELD RESTROOM ADDITION
FOR
DAVID CITY, NEBRASKA**

OWNER CONTACT William Reiter, Recreation Director
City of David City
490 E Street, PO Box 191
David City, NE 68632
Phone: 402.367.3135

**COORDINATING
PROFESSIONAL** Bryan Solko
JEO Architecture, Inc.
2000 Q Street, Suite 500
Lincoln, NE 68503
Phone: 402.435.3080
Email: bsolko@jeo.com

I, Bryan Solko, am the Coordinating Professional on the David City Ballfield Restroom Addition project.

**PROJECT
COORDINATOR** Direct questions to:
Jarred Meyer
JEO Architecture, Inc
Phone: 402.239.5383
Email: jmeyer@jeo.com

**SUBMITTING
ORGANIZATION(S)** Organization legal name: JEO Architecture, Inc.
Contact information: 1937 N Chestnut St, Wahoo, NE 68066 – 800.723.8567
Organization certificate of authorization number: CA-3929

Organization legal name: JEO Consulting Group, Inc.
Contact information: 1937 N Chestnut St, Wahoo, NE 68066 – 800.723.8567
Organization certificate of authorization number: CA-0069

*Organization legal name: AES Advanced Engineering Systems
Contact Information: 4630 Antelope Creed Rd. Lincoln, NE 68506, 402.488.0075
Organization certificate of authorization number: CA-482079*

JEO PROJECT NO. 251890.00

**DAVID CITY BALLFIELD RESTROOM ADDITION
FOR
DAVID CITY, NEBRASKA
JEO PROJECT NO. 251890.00**

The following Specification Sections have been prepared by myself or under my direct supervision:

<u>Section No.</u>	<u>Title</u>
Division 00 – All Sections Included	Bidding and Contracting Requirements
Division 01 – All Sections Included	General Requirements
Division 02 – All Sections Included	Existing Conditions
Division 03 03 35 11	Concrete Concrete Floor Finishes
Division 06 – All Sections Included	Wood, Plastics, Composites
Division 07 – All Sections Included	Thermal and Moisture Protection
Division 08 – All Sections Included	Openings
Division 09 – All Sections Included	Finishes
Division 10 – All Sections Included	Specialties

**DAVID CITY BALLFIELD RESTROOM ADDITION
FOR
DAVID CITY, NEBRASKA
JEO PROJECT NO. 251890.00**

The following Specification Sections have been prepared by myself or under my direct supervision:

<u>Section No.</u>	<u>Title</u>
Division 03 03 30 00	Concrete Cast-In-Place Concrete

**SECTION 00 01 10
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PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

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- 00 01 10 - Table of Contents
- 00 01 15 - List of Drawing Sheets
- 00 11 13 - Advertisement for Bids
- 00 21 13 - Instructions to Bidders
- 00 41 00 - Bid Form
- 00 52 00 - Agreement Form
- 00 72 00 - General Conditions
- 00 73 00 - Supplementary Conditions

SPECIFICATIONS

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- 01 20 00 - Price and Payment Procedures
- 01 30 00 - Administrative Requirements
- 01 32 16 - Construction Progress Schedule
- 01 40 00 - Quality Requirements
- 01 50 00 - Temporary Facilities and Controls
- 01 60 00 - Product Requirements
- 01 70 00 - Execution and Closeout Requirements
- 01 78 00 - Closeout Submittals

DIVISION 02 -- EXISTING CONDITIONS

- 02 41 00 - Demolition

DIVISION 03 -- CONCRETE

- 03 30 00 - Cast-in-Place Concrete
- 03 35 11 - Concrete Floor Finishes

DIVISION 04 -- MASONRY (NOT USED)

DIVISION 05 -- METALS (NOT USED)

DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

- 06 10 00 - Rough Carpentry
- 06 64 00 - Plastic Paneling

DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

- 07 21 00 - Thermal Insulation
- 07 21 26 - Blown Insulation
- 07 25 00 - Weather Barriers
- 07 46 46 - Fiber-Cement Siding
- 07 62 00 - Sheet Metal Flashing and Trim
- 07 92 00 - Joint Sealants

DIVISION 08 -- OPENINGS

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08 71 00 - Door Hardware

DIVISION 09 -- FINISHES

09 21 16 - Gypsum Board Assemblies - USG

09 9000 - Painting and Coating

DIVISION 10 -- SPECIALTIES

10 14 00 - Signage

10 21 13.19 - Plastic Toilet Compartments

10 28 00 - Toilet, Bath, and Laundry Accessories

DIVISION 11 -- EQUIPMENT (NOT USED)

DIVISION 12 -- FURNISHINGS (NOT USED)

DIVISION 13 -- SPECIAL CONSTRUCTION (NOT USED)

DIVISION 14 -- CONVEYING EQUIPMENT (NOT USED)

DIVISION 21 -- FIRE SUPPRESSION (NOT USED)

DIVISION 22 -- PLUMBING (NOT USED)

DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC) (NOT USED)

DIVISION 25 -- INTEGRATED AUTOMATION (NOT USED)

DIVISION 26 -- ELECTRICAL (NOT USED)

DIVISION 27 -- COMMUNICATIONS (NOT USED)

DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY (NOT USED)

DIVISION 31 -- EARTHWORK (NOT USED)

DIVISION 32 -- EXTERIOR IMPROVEMENTS (NOT USED)

DIVISION 33 -- UTILITIES (NOT USED)

DIVISION 34 -- TRANSPORTATION (NOT USED)

DIVISION 40 -- PROCESS INTEGRATION (NOT USED)

DIVISION 46 -- WATER AND WASTEWATER EQUIPMENT (NOT USED)

**SECTION 00 01 15
LIST OF DRAWING SHEETS**

GENERAL

G101 COVER SHEET, SHEET INDEX, & GENERAL NOTES

CIVIL

C101 REMOVALS, SITE LAYOUT AND UTILITY PLAN

C201 SITE GRADING & EROSION CONTROL PLAN

STRUCTURAL

S001 GENERAL NOTES

S101 FOUNDATION PLAN

ARCHITECTURAL

A001 ARCHITECTURAL DEMOLITION FLOOR PLAN

A101 ARCHITECTURAL FLOOR PLAN

A111 REFLECTED CEILING PLAN

A201 BUILDING ELEVATIONS

A301 BUILDING SECTIONS

A401 ENLARGED PLANS & INTERIOR ELEVATIONS

A501 ARCHITECTURAL DETAILS & SCHEDULES

PLUMBING

P000 PLUMBING NOTES, SPECIFICATIONS AND SYMBOLS

PD101 PLUMBING DEMOLITION FLOOR PLAN

P101 PLUMBING FLOOR PLANS

P201 PLUMBING SCHEDULES AND DETAILS

MECHANICAL

M000 HVAC NOTES, SPECIFICATIONS & SYMBOLS

M101 HVAC FLOOR PLAN

M201 HVAC SCHEDULES & DETAILS

ELECTRICAL

E000 ELECTRICAL GENERAL PROJECT NOTES & SYMBOLS

E101 LIGHTING FLOOR PLAN

E201 POWER FLOOR PLANS

E301 PANELS SCHEDULES

E302 LIGHTING SCHEDULES

E401 ELECTRICAL SPECIFICATIONS

END OF SECTION

**SECTION 00 11 13
ADVERTISEMENT FOR BIDS**

FROM:

1.01 THE OWNER (HEREINAFTER REFERRED TO AS OWNER):

- A. City of David City, Nebraska:
490 E Street
David City, NE 68632

1.02 AND THE ARCHITECT (HEREINAFTER REFERRED TO AS ARCHITECT):

- A. JEO Architecture, Inc.
- B. Address:
 - 1. 2000 Q Street
 - 2. Suite 500
 - 3. Lincoln, NE 68503

1.03 TO: POTENTIAL BIDDERS

- A. Your firm is invited to submit an offer under seal to Owner for construction of a building located at 100 M Rd, David City, NE 68632 before 2:00 pm local standard time on the March 19, 2026, for:
- B. Project Description:
 - 1. David City Ballfield Restroom Addition. The project consists of an approximately 588 SF wood framed restroom with an approximately 186 SF renovated space. Exterior finish is fiber-cement siding.
- C. A pre-bid meeting will not be held. To visit the site, contact Will Reiter, Recreation Director, at wreiter@davidcityne.gov, 402.367.3135 to arrange a time.
- D. Bids will be received at the office of the Owner at 490 E Street, David City, NE 68632. Bids will be opened publicly at 2:00 PM.
- E. Bid Documents for a Stipulated Sum contract may be obtained by download in PDF format from JEO's website at jeo.com for a nonrefundable fee of \$30.00. Paper copies of the Bid Documents are available at the office of JEO Architecture, Inc. free of charge upon receipt of a refundable deposit, by cash or check, in the amount of \$200.00 for one set if returned within 21 days of Notice of Award in reusable condition. All other requested sets will be at the expense of the contractor to cover actual printing costs.
- F. For plans and specifications that are to be shipped
 - 1. Include a non-refundable \$15.00 shipping and handling fee for each set of plans and specifications.
 - 2. Submit the fee as a separate check.
- G. Bidders will be required to provide Bid security in the form of a Bid Bond of a sum no less than 5 percent of the Bid Amount.
 - 1. Bid security shall be made payable to City of David City, Nebraska and will be held by the Owner. In case the bid is accepted and the Bidder neglects or refuses to enter into contract and furnish bond in accordance there with, the bid security will be forfeited.
 - 2. Refer to other bidding requirements described in Document 00 21 13 - Instructions to Bidders.
- H. Your offer will be required to be submitted under a condition of irrevocability for a period of 30 days after submission.

END OF SECTION

**SECTION 00 21 13
INSTRUCTIONS TO BIDDERS**

INVITATION

1.01 BID SUBMISSION

- A. Bids signed and under seal, executed, and dated will be received at the office of the Owner at 490 E. Street, David City, NE 68632 before 2:00 p.m. local standard time on March 19, 2026.
- B. Offers submitted after the above time will be returned to the bidder unopened.
- C. Offers will be opened publicly immediately after the time for receipt of bids.
- D. Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if endorsed by the same party or parties who signed and sealed the offer.

1.02 WORK IDENTIFIED IN THE CONTRACT DOCUMENTS

- A. Project Location:
100 M Rd.
David City, Nebraska 68632.

1.03 CONTRACT TIME

- A. The work under this Contract shall commence within seven (7) days of fully executed Contract between the Owner and Contractor and shall be completed by August 30, 2026; unless otherwise extended by the Contract Documents. Liquidated damages may be assessed in the amount of \$150.00 for each calendar day that the work remains unfinished past the completion date listed above.
- B. The ballfields are used heavily from May 4th into Mid-July. Construction operations will need to be coordinated with the owner to minimize disruptions to the concession stand portion of the existing facility and to maintain safety for all users.
- C. The bidder, in submitting an offer, accepts the Contract Time period stated for performing the Work. The completion date in the Agreement shall be the Contract Time added to the commencement date. The bidder may suggest a revision to the Contract Time with a specific adjustment to the Bid Amount.

BID DOCUMENTS AND CONTRACT DOCUMENTS

2.01 DEFINITIONS

- A. Bid Documents: Contract Documents supplemented with Invitation To Bid, Instructions to Bidders, Information Available to Bidders, Bid Form Supplements To Bid Forms and Appendices identified.
- B. Contract Documents: Defined in AIA A201 Article 1 including issued Addenda.
- C. Bid, Offer, or Bidding: Act of submitting an offer under seal.
- D. Bid Amount: Monetary sum identified by the Bidder in the Bid Form.

2.02 CONTRACT DOCUMENTS IDENTIFICATION

- A. Contract Documents are identified as Architect's Project Number 251890.00, as prepared by Architect, and with contents as identified in the Table of Contents.

2.03 AVAILABILITY

- A. Bid Documents may be obtained by download in PDF format from JEO's website at jeo.com for a non-refundable fee or at the office of Architect which is located at 2000 Q Street, Suite 500, Lincoln, NE 68503 p) 402.435.3080.
- B. Refer to Section 00 11 13 ADVERTISEMENT FOR BIDS for deposits required.
- C. In order to bid the project, the contract documents must be issued directly to the General Contractor bidder from JEO Consulting Group, Inc. or QuestCDN. The Bid shall be submitted by the same firm that was issued the contract documents.

2.04 EXAMINATION

- A. Bid Documents may be viewed at the office of Architect.
- B. Bid Documents may be viewed at the office of Owner.
- C. Bid Documents are available for viewing purposes at the following locations:
 - 1. Office of JEO Consulting Group Inc.
2000 Q Street, Suite 500.
Lincoln NE 68503.
p) 402.435.3080
f) 402.435.4110
 - 2. Lincoln Builders Bureau
5910 S 58th St Ste C
Lincoln NE 68516-6410
p) 402.421.8332
f) 402.421.8334
 - 3. Dodge Data & Analytics
dodge.bidding@construction.com
www.construction.com
p) 800.393.6343
f) 800.768.5594
 - 4. Omaha Builders Exchange
4156 South 94th Street
Omaha NE 68127-1223
p) 402.991.6906
f) 402.884.7055
 - 5. Columbus Area Chamber of Commerce
 - a. 764 33rd Ave
 - b. Columbus NE 68601-6428
 - c. p) 402.564.2769
 - d. f) 402.564.2026
- D. Upon receipt of Bid Documents verify that documents are complete. Notify Architect should the documents be incomplete.
- E. Immediately notify Architect upon finding discrepancies or omissions in the Bid Documents.

2.05 INQUIRIES/ADDENDA

- A. Direct questions to Jarred Meyer with JEO Architecture Inc; 402.239.5383 or email; jmeyer@jeo.com.
- B. Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.
- C. Verbal answers are not binding on any party.
- D. Clarifications requested by bidders must be in writing not less than 7 days before date set for receipt of bids. The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients.

2.06 PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS

- A. General Requirements for Substitution Requests:
 - 1. Project Manual establishes standards for products, assemblies, and systems.
 - 2. Provide sufficient information to determine acceptability of proposed substitutions.
 - 3. Provide complete information on required revisions to other work to accommodate each proposed substitution.
- B. Substitution Request Time Restrictions:

1. Where the Bid Documents stipulate a particular product, substitutions will be considered up to 10 days before receipt of bids.
- C. Substitution Request Form:
 1. Submit substitution requests by completing CSI/CSC Form 1.5C - Substitution Request (During the Bidding/Negotiating Stage). See this form for additional information and instructions. Use only this form; other forms of submission are unacceptable.
- D. Review and Acceptance of Request:
 1. Architect may approve the proposed substitution and will issue an Addendum to known bidders.

SITE ASSESSMENT

3.01 SITE EXAMINATION

- A. The bidder is required to contact Owner at the following address and phone number in order to arrange a date and time to visit the project site: Will Reiter, Recreation Director, wreiter@davidcityne.gov, 402.367.3135.

3.02 PREBID CONFERENCE

- A. A prebid conference will not be held.

QUALIFICATIONS

4.01 EVIDENCE OF QUALIFICATIONS

- A. To demonstrate qualification for performing the Work of this Contract, bidders may be requested to submit written evidence of financial position, license to perform work in the State.
- B. Eligible General Contractors and Sub-contractors shall not be debarred, suspended, proposed for debarment, placed on ineligibility status, or voluntarily excluded from covered transactions by any Federal agency under the provisions of 2 C.F.R. part 180, Executive Order 12549, Executive Order 12689 and 31 C.F.R part 19.
- C. The General Contractor and sub-contractor agrees to comply with requirements established by the Office of Budget Management ("OMB") concerning active registration of a Unique Entity Identifier ("UEI"), with SAM and continued maintenance of such participation and registration during the project duration. The General contractor and Sub-contractors shall maintain active SAM.gov registration for the duration of the Period of Performance.

4.02 FUNDING SOURCE INFORMATION

- A. The project is funded through the Nebraska Rural Community Recovery Program (RCRP)
 1. Businesses that are small, minority and women owned are encouraged to submit bids.
 2. Preference is for domestically produced goods and materials.
 3. Davis-Bacon requirements do not apply

4.03 SUBCONTRACTORS/SUPPLIERS/OTHERS

- A. Owner reserves the right to reject a proposed subcontractor for reasonable cause.

BID SUBMISSION

5.01 SUBMISSION PROCEDURE

- A. Bidders shall be solely responsible for the delivery of their bids in the manner and time prescribed.
- B. Physical Document Submissions:
 1. Submit one copy of executed offer, signed and sealed, on Bid Forms provided. Use an opaque envelope, including required security, clearly identified with bidder's name, project name, and Owner's name on the outside.
- C. Improperly completed information or irregularities in security deposit may be cause to reject and declare the bid invalid or informal.

- D. An abstract summary of submitted bids will be made available to all bidders following bid opening.

5.02 BID INELIGIBILITY

- A. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the discretion of the Owner, be declared unacceptable.
- B. Bid Forms, Appendices, and enclosures that are improperly prepared may, at the discretion of Owner, be declared unacceptable.
- C. Failure to provide security deposit, bonding or insurance requirements may, at the discretion of Owner, be waived.

BID ENCLOSURES/REQUIREMENTS

6.01 SECURITY DEPOSIT

- A. Bids shall be accompanied by a security deposit as follows:
 - 1. Bid Bond of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.
- B. Endorse the Bid Bond in the name of the Owner as obligee, signed and sealed by the principal (Contractor) and surety.
- C. The security deposit will be returned after delivery to the Owner of the required Performance and Payment Bond(s) by the accepted bidder.
- D. Include the cost of bid security in the Bid Amount.
- E. If no contract is awarded, all security deposits will be returned.

6.02 PERFORMANCE ASSURANCE

- A. Accepted Bidder: Provide a Performance bond as described in 00 73 00 - Supplementary Conditions.
- B. Include the cost of performance assurance bonds in the Bid Amount.

6.03 INSURANCE

- A. Provide an executed "Undertaking of Insurance" on the form provided stating their intention to provide insurance to the bidder in accordance with the insurance requirements of Contract Documents.
- B. The owner will obtain Builders Risk Insurance.

6.04 BID FORM REQUIREMENTS

- A. Complete all requested information in the Bid Form and Appendices.

6.05 SALES AND USE TAXES

- A. David City, Nebraska is a tax-exempt entity.

6.06 BUILDING PERMITS

- A. The contractor will be required to obtain all necessary building permits from the Authorities Having Jurisdiction. Include all permitting fees within the Bid Amount.

6.07 FEES FOR CHANGES IN THE WORK

- A. Include the fees for overhead and profit on own Work and Work by subcontractors, identified in Supplementary Conditions.

6.08 BID FORM SIGNATURE

- A. The Bid Form shall be signed by the bidder, as follows:
 - 1. Sole Proprietorship: Signature of sole proprietor in the presence of a witness who will also sign. Insert the words "Sole Proprietor" under the signature. Affix seal.
 - 2. Partnership: Signature of all partners in the presence of a witness who will also sign. Insert the word "Partner" under each signature. Affix seal to each signature.

3. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer's capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of directors authorizing them to do so, must also be submitted with the Bid Form in the bid envelope.
4. Joint Venture: Each party of the joint venture shall execute the Bid Form under their respective seals in a manner appropriate to such party as described above, similar to the requirements of a Partnership.

OFFER ACCEPTANCE/REJECTION

7.01 DURATION OF OFFER

- A. Bids shall remain open to acceptance and shall be irrevocable for a period of thirty (30) days after the bid closing date.

7.02 ACCEPTANCE OF OFFER

- A. Owner reserves the right to accept or reject any or all offers.
- B. After acceptance by Owner, Architect on behalf of Owner, will issue to the successful bidder, a written Bid Acceptance.

END OF SECTION

**SECTION 00 41 00
BID FORM**

THE PROJECT AND THE PARTIES

1.01 TO:

City of David City, Nebraska
490 E. Street
David City, Nebraska 68632

1.02 FOR:

- A. Project: David City Ballfield RR Addition
100 M Rd
David City, Nebraska 68632

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name _____
1. Address _____
2. City, State, Zip _____

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by JEO Architecture, Inc., Project No. 251890.00 for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:
- B. _____ dollars
(\$ _____), in lawful money of the United States of America.
- C. We have included the required security Bid Bond as required by the Instruction to Bidders.
- D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.

1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for thirty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
1. Execute the Agreement within seven days of receipt of Notice of Award.
 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 3. Commence work within seven days after written acceptance of this bid of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
- B. Complete the Work by August 30, 2026.

1.08 CHANGES TO THE WORK

- A. When Architect establishes that the method of valuation for Changes in the Work will be net cost plus a percentage fee in accordance with General Conditions, our percentage fee will be:
 - 1. 10 percent overhead and profit on the net cost of our own Work;
 - 2. 10 percent on the cost of work done by any Subcontractor.
- B. On work deleted from the Contract, our credit to Owner shall be Architect-approved net cost plus 50 percent of the overhead and profit percentage noted above.

1.09 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
 - 1. Addendum # _____ Dated _____.
 - 2. Addendum # _____ Dated _____.
 - 3. Addendum # _____ Dated _____.

1.10 SYSTEM FOR AWARDS MANAGEMENT ("SAM") ACKNOWLEDGEMENT

- A. General Contractor shall provide proof of an active, registered Unique Entity Identifier in SAM.gov before contract award. Furthermore, any and all subcontractors used on the project must also have an active, registered Unique Entity Identifier in SAM.gov.

1.11 BID FORM SIGNATURE(S)

- A. The Corporate Seal of
- B. _____
- C. (Bidder - print the full name of your firm)
- D. was hereunto affixed in the presence of:
- E. _____
- F. (Authorized signing officer, Title)
- G. (Seal)
- H. _____
- I. (Authorized signing officer, Title)

1.12 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION

**SECTION 00 52 00
AGREEMENT FORM**

PART 1 GENERAL

1.01 FORM OF AGREEMENT

**1.02 AIA DOCUMENT A104, STANDARD ABBREVIATED FORM OF AGREEMENT BETWEEN
OWNER AND CONTRACTOR.**

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF AGREEMENT

**SECTION 00 72 00
GENERAL CONDITIONS**

FORM OF GENERAL CONDITIONS

1.01 RELATED REQUIREMENTS

1.02 SECTION 00 73 00 - SUPPLEMENTARY CONDITIONS.

**1.03 AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION,
2017 EDITION, IS THE GENERAL CONDITIONS BETWEEN THE OWNER AND CONTRACTOR.**

END OF DOCUMENT

**SECTION 00 73 00
SUPPLEMENTARY CONDITIONS**

PART 1 GENERAL

1.01 SUMMARY

1.02 THESE SUPPLEMENTARY CONDITIONS AMEND AND SUPPLEMENT THE GENERAL CONDITIONS DEFINED IN AIA DOCUMENTS A201 - 2017 AND OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AS INDICATED BELOW. ALL PROVISIONS THAT ARE NOT SO AMENDED OR SUPPLEMENTED REMAIN IN FULL FORCE AND EFFECT.

1.03 THE TERMS USED IN THESE SUPPLEMENTARY CONDITIONS THAT ARE DEFINED IN THE GENERAL CONDITIONS HAVE THE MEANINGS ASSIGNED TO THEM IN THE GENERAL CONDITIONS.

1.04 MODIFICATIONS TO GENERAL CONDITIONS

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

PART 4 MODIFICATIONS TO AIA A201 - 2017

4.01 ARTICLE 1 - GENERAL PROVISIONS

A. Add the following paragraphs:

1. 1.2.4 In case of disagreement between the drawings and specifications, or within the document itself, contact the Architect to resolve any disagreement.
2. 1.2.5 Contractor is solely responsible for coordination of bidding and scope of Work of subcontractors. Neither Architect or Owner will act as arbiter as to which trade or subcontractor is to furnish and install various items indicated or required to perform construction.

B. Add the following paragraph:

1. 1.9 Notwithstanding anything herein to the contrary, the Owner and Contractor agree to execute such other documents as may be necessary for Owner to be in compliance with all rules and regulations of the Federal Emergency Management Act or Nebraska Emergency Management Act.

4.02 ARTICLE 2 OWNER

A. Delete the following paragraph in its entirety:

1. 2.1.2.
2. Delete Subparagraph 2.3.6 in its entirety and replace with the following:
3. The Contractor will be furnished free of charge a minimum 2 copies of drawings and project manuals.. Additional sets will be furnished at the cost of reproduction, postage and handling. Signed and sealed prints as required for governing authority's review and approval will be supplied at no cost.

4.03 ARTICLE 3 - CONTRACTOR

A. Add the following subparagraphs:

1. 3.4.4 Acceptance of materials by or on behalf of Architect does not bar future rejection if subsequently found to be defective or inferior in quality or uniformity to material specified or not as represented.
2. 3.4.5 After the Contract has been executed, the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions listed below:
 - a. By making requests for substitutions, the Contractor:
 - 1) Represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified.

- 2) Represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified.
 - 3) Certifies that the cost data presented is complete and includes all related costs under this Contract, except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently becomes apparent.
 - 4) Will coordinate the installation of the accepted substitute, making such changes as may be required for work in all respects.
 - 5) Will reimburse Owner and Architect for review on redesign services associated with reapproval by Architect.
3. 3.5.3 The Prime Contractor does hereby guarantee the Work to conform to the Warranty described (in 3.5.1) for a period of one full year from the date of acceptance of the Work as designated in the Certificate of Substantial Completion.

4.04 ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

A. Add the following paragraph:

1. 4.1.3 In carrying out any provisions of Contract or in exercising any power or authority granted thereby, there is no liability upon Architect to the Contractor, either personally or as an official of Owner, it being understood that in such matters the Architect acts as agent and representative of Owner.

4.05 ARTICLE 5 - SUBCONTRACTORS

A. Add the following subparagraph:

1. 5.1.3 Architect shall not work directly with any subcontractor, sub-subcontractor or materials supplier. Contact to the Architect shall be made only through Contractor. Requests for information or clarification must be routed through Contractor.

B. Add the following subparagraph:

1. 5.3.1 Contractor is fully responsible for acts and omissions of all subcontractors, and persons either directly or indirectly employed by them.

4.06 ARTICLE 7 - CHANGES IN THE WORK

A. Add the following subparagraphs:

1. 7.1.4 The Contractor shall not proceed with or commence any work for which contractor will request additional compensation or which is deemed to be a Change in the Work without first receiving a signed written Change Order properly executed, or a written order or authorization to proceed from the Architect.
2. 7.1.5 Failure of the Contractor to obtain written approval or authorization for any Changes in the Work shall constitute cause for rejection of a request for approval of any additional compensation associated with the Work.
3. 7.3.11 For all additional work covered by approved Change Orders or Construction Change Directives, the Contractor shall submit a price quotation which includes a complete breakdown of the cost of the Work, including labor, materials, equipment, subcontract work, and overhead and profit. The following fees apply to Changes in the Work in accordance with Subparagraph 7.3.4:
 - a. 10 percent overhead and profit on the net cost of Work done by the Contractor;
 - b. 10 percent overhead and profit on the cost of Work done by any Subcontractor;
 - c. On Work deleted from the Contract, credit to the Owner shall be the Architect approved net cost plus 1/2 of the overhead and profit percentage noted above.

4.07 ARTICLE 8 - TIME

A. Add the following subparagraph:

1. 8.1.2.1 Do not start work or store materials or equipment on site until written notice to proceed is issued, or upon execution of Contract.

B. Add the following subparagraph:

1. 8.3.4 Owner may waive above requirements and grant extensions of time for any reason.

4.08 ARTICLE 9 - PAYMENTS AND COMPLETION

- A. Add the following subparagraphs:
 - 1. 9.3.1.01 Until the work is 100 percent complete, the Owner shall pay 95 percent of the amount certified by the Architect on account of progress payments.
 - 2. 9.3.3.1 Lien Releases and Receipted Bills, add the following: Before receiving any payment, except the first, the Contractor shall furnish to the Architect, along with his "Request for Payment," partial (or final as the case may be) lien releases covering all materials used and subcontracts performed in connection with his contract through the date of the previous billing. In addition, the Contractor shall furnish with each request for payment, including the first, the contractor's own waiver of lien in the full amount of the request shall include a list of subcontractors, sub-subcontractors, and suppliers whose lien releases will be furnished with the following months request. Should the Contractor fail to furnish required lien releases, the amount of his "Request for Payment" not covered by such lien releases may not be certified.
 - 3. 9.3.3.2 Final Waivers of Lien, add the following: Before final payment will be made, the Contractor shall furnish final waivers of lien, or receipted bills, covering all materials used and subcontracts performed in connection with his contract, including his own final waiver of lien in the full amount of the contract.
- B. Add the following to the sentence to subparagraph 9.8.1
 - 1. Subject only to completion of minor punch-list items, the absence of completion of which does not interfere with the Owner's intended use of the Project.
- C. Add the following sentence to subparagraph 9.10.3;
 - 1. Notwithstanding the foregoing, in no event shall the retainage attributable to the unfinished Work be less than 125% of Owner's good faith estimate of the cost of finally completing the Work.

4.09 ARTICLE 10 - PROTECTION OF PERSONS AND PROPERTY

- A. Add the following paragraphs:
 - 1. Add the following sentence to subparagraph 10.1:
 - a. This requirement applies continuously and is not limited to normal working hours.
 - 2. 10.1.1 The Contractor shall be required, in compliance with the Asbestos Emergency Response Act of 1986, to certify that all products and materials supplied as a part of this project shall be free of Asbestos.
- B. Add the following subparagraph 10.2.2.1:
 - 1. Contractor shall give notice in writing at least 48 hours before breaking ground to all persons, public utility companies, Owners of property having structures or improvements in proximity to site of the Work, and superintendents, inspectors, or those otherwise in charge of property, streets, water pipes, gas pipes, sewer pipes, telephone cables, electric cables, railroads or otherwise, who may be affected by Contractor's operation, in order that they may remove any obstruction for which they are responsible and have representative on site to see that their property is properly protected. Such notice does not relieve Contractor of responsibility for any damages, claims, and defense of all actions against Owner and Architect resulting from performance of such work in connection with or arising out of Contract.
- C. Add new subparagraphs:
 - 1. 10.2.9 Duty of Architect to conduct construction review of Contractor's performance does not include review of adequacy of Contractor's safety measures in, on, or near construction site.
 - 2. 10.2.10 Maintain utilities or other service, indicated to be abandoned, in service until new facilities are provided, tested and ready for use.
 - 3. 10.2.11 Return all improvements on or about site and adjacent property which are not shown to be altered, removed or otherwise changed to conditions which existed previous to starting work.

D. Add new paragraphs:

1. 10.3.7 Water Precautions: Keep all parts of site, including excavations, free from any accumulation of water, no matter what source of cause.
2. 10.3.7.1 Dispose of water in such manner as will not endanger public health or cause damage or expense to property. Comply with requirements of any public agencies having jurisdiction. If sewers and streets are allowed to be used for drainage or disposal of water furring construction, maintain and leave these satisfactorily clean upon completion of work.

E. Add new paragraphs:

1. 10.3.8 Signs: Do not erect signs, billboards, or advertisements on or about premises, without prior approval, except as required by Contract.
2. 10.3.8.1 Furnish and maintain all necessary signs required for prosecution of the Work and as required by law.

4.10 ARTICLE 13 - MISCELLANEOUS PROVISIONS

A. Add the following to paragraph 13.4.1:

1. Contractor shall provide the testing and inspection services required by the Contract Documents at the Contractors expense.

B. Delete paragraph 13.5 in its entirety.

4.11 ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

A. Add the following to subparagraph:

1. 14.2.3 In all cases of termination or Contractor default, Architect will bill Owner for cost of additional services required in connection with reissuing documents or completing the Work. Owner will deduct this sum from money due Contractor and pay it to Architect.

END OF SECTION

AIA Document A101[®] – 2017 Exhibit A

Insurance and Bonds

This Insurance and Bonds Exhibit is part of the Agreement, between the Owner and the Contractor, dated the day of in the year
(In words, indicate day, month and year.)

for the following **PROJECT**:
(Name and location or address)

David City Ballfield RR Addition
David City

THE OWNER:
(Name, legal status and address)

David City
490 E Street
David City, NE 68632

THE CONTRACTOR:
(Name, legal status and address)

TABLE OF ARTICLES

A.1 GENERAL

A.2 OWNER'S INSURANCE

A.3 CONTRACTOR'S INSURANCE AND BONDS

A.4 SPECIAL TERMS AND CONDITIONS

ARTICLE A.1 GENERAL

The Owner and Contractor shall purchase and maintain insurance, and provide bonds, as set forth in this Exhibit. As used in this Exhibit, the term General Conditions refers to AIA Document A201[™]-2017, General Conditions of the Contract for Construction.

ARTICLE A.2 OWNER'S INSURANCE

§ A.2.1 General

Prior to commencement of the Work, the Owner shall secure the insurance, and provide evidence of the coverage, required under this Article A.2 and, upon the Contractor's request, provide a copy of the property insurance policy or policies required by Section A.2.3. The copy of the policy or policies provided shall contain all applicable conditions, definitions, exclusions, and endorsements.

§ A.2.2 Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual general liability insurance.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with AIA Document A201[®]-2017, General Conditions of the Contract for Construction. Article 11 of A201[®]-2017 contains additional insurance provisions.

§ A.2.3 Required Property Insurance

§ A.2.3.1 Unless this obligation is placed on the Contractor pursuant to Section A.3.3.2.1, the Owner shall purchase and maintain, from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, property insurance written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis. The Owner's property insurance coverage shall be no less than the amount of the initial Contract Sum, plus the value of subsequent Modifications and labor performed and materials or equipment supplied by others. The property insurance shall be maintained until Substantial Completion and thereafter as provided in Section A.2.3.1.3, unless otherwise provided in the Contract Documents or otherwise agreed in writing by the parties to this Agreement. This insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Project as insureds. This insurance shall include the interests of mortgagees as loss payees.

§ A.2.3.1.1 Causes of Loss. The insurance required by this Section A.2.3.1 shall provide coverage for direct physical loss or damage, and shall not exclude the risks of fire, explosion, theft, vandalism, malicious mischief, collapse, earthquake, flood, or windstorm. The insurance shall also provide coverage for ensuing loss or resulting damage from error, omission, or deficiency in construction methods, design, specifications, workmanship, or materials. Sub-limits, if any, are as follows:

(Indicate below the cause of loss and any applicable sub-limit.)

Causes of Loss	Sub-Limit
Special Form or All Risk	Policy Limit

§ A.2.3.1.2 Specific Required Coverages. The insurance required by this Section A.2.3.1 shall provide coverage for loss or damage to falsework and other temporary structures, and to building systems from testing and startup. The insurance shall also cover debris removal, including demolition occasioned by enforcement of any applicable legal requirements, and reasonable compensation for the Architect's and Contractor's services and expenses required as a result of such insured loss, including claim preparation expenses. Sub-limits, if any, are as follows:

(Indicate below type of coverage and any applicable sub-limit for specific required coverages.)

Coverage	Sub-Limit
Transit / Off-site Storage	\$250,000.00

§ A.2.3.1.3 Unless the parties agree otherwise, upon Substantial Completion, the Owner shall continue the insurance required by Section A.2.3.1 or, if necessary, replace the insurance policy required under Section A.2.3.1 with property insurance written for the total value of the Project that shall remain in effect until expiration of the period for correction of the Work set forth in Section 12.2.2 of the General Conditions.

§ A.2.3.1.4 Deductibles and Self-Insured Retentions. If the insurance required by this Section A.2.3 is subject to deductibles or self-insured retentions, the Owner shall be responsible for all loss not covered because of such deductibles or retentions.

§ A.2.3.2 Occupancy or Use Prior to Substantial Completion. The Owner's occupancy or use of any completed or partially completed portion of the Work prior to Substantial Completion shall not commence until the insurance company or companies providing the insurance under Section A.2.3.1 have consented in writing to the continuance of coverage. The Owner and the Contractor shall take no action with respect to partial occupancy or use that would cause cancellation, lapse, or reduction of insurance, unless they agree otherwise in writing.

§ A.2.3.3 Insurance for Existing Structures

If the Work involves remodeling an existing structure or constructing an addition to an existing structure, the Owner shall purchase and maintain, until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, "all-risks" property insurance, on a replacement cost basis, protecting the existing structure against direct physical loss or damage from the causes of loss identified in Section A.2.3.1, notwithstanding the undertaking of the Work. The Owner shall be responsible for all co-insurance penalties.

§ A.2.4 Optional Extended Property Insurance.

The Owner shall purchase and maintain the insurance selected and described below.

(Select the types of insurance the Owner is required to purchase and maintain by placing an X in the box(es) next to

Init.

the description(s) of selected insurance. For each type of insurance selected, indicate applicable limits of coverage or other conditions in the fill point below the selected item.)

- § A.2.4.1 Loss of Use, Business Interruption, and Delay in Completion Insurance**, to reimburse the Owner for loss of use of the Owner's property, or the inability to conduct normal operations due to a covered cause of loss.
- § A.2.4.2 Ordinance or Law Insurance**, for the reasonable and necessary costs to satisfy the minimum requirements of the enforcement of any law or ordinance regulating the demolition, construction, repair, replacement or use of the Project.
- § A.2.4.3 Expediting Cost Insurance**, for the reasonable and necessary costs for the temporary repair of damage to insured property, and to expedite the permanent repair or replacement of the damaged property.
- § A.2.4.4 Extra Expense Insurance**, to provide reimbursement of the reasonable and necessary excess costs incurred during the period of restoration or repair of the damaged property that are over and above the total costs that would normally have been incurred during the same period of time had no loss or damage occurred.
- § A.2.4.5 Civil Authority Insurance**, for losses or costs arising from an order of a civil authority prohibiting access to the Project, provided such order is the direct result of physical damage covered under the required property insurance.
- § A.2.4.6 Ingress/Egress Insurance**, for loss due to the necessary interruption of the insured's business due to physical prevention of ingress to, or egress from, the Project as a direct result of physical damage.
- § A.2.4.7 Soft Costs Insurance**, to reimburse the Owner for costs due to the delay of completion of the Work, arising out of physical loss or damage covered by the required property insurance: including construction loan fees; leasing and marketing expenses; additional fees, including those of architects, engineers, consultants, attorneys and accountants, needed for the completion of the construction, repairs, or reconstruction; and carrying costs such as property taxes, building permits, additional interest on loans, realty taxes, and insurance premiums over and above normal expenses.

§ A.2.5 Other Optional Insurance.

The Owner shall purchase and maintain the insurance selected below.

(Select the types of insurance the Owner is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance.)

- § A.2.5.1 Cyber Security Insurance** for loss to the Owner due to data security and privacy breach, including costs of investigating a potential or actual breach of confidential or private information.
(Indicate applicable limits of coverage or other conditions in the fill point below.)

[] § A.2.5.2 Other Insurance

(List below any other insurance coverage to be provided by the Owner and any applicable limits.)

Coverage

Limits

ARTICLE A.3 CONTRACTOR'S INSURANCE AND BONDS

§ A.3.1 General

§ A.3.1.1 Certificates of Insurance. The Contractor shall provide certificates of insurance acceptable to the Owner evidencing compliance with the requirements in this Article A.3 at the following times: (1) prior to commencement of the Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Owner's written request. An additional certificate evidencing continuation of commercial liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the periods required by Section A.3.2.1 and Section A.3.3.1. The certificates will show the Owner as an additional insured on the Contractor's Commercial General Liability and excess or umbrella liability policy or policies.

§ A.3.1.2 Deductibles and Self-Insured Retentions. The Contractor shall disclose to the Owner any deductible or self-insured retentions applicable to any insurance required to be provided by the Contractor.

§ A.3.1.3 Additional Insured Obligations. To the fullest extent permitted by law, the Contractor shall cause the commercial general liability coverage to include (1) the Owner, the Architect, and the Architect's consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions for which loss occurs during completed operations. The additional insured coverage shall be primary and non-contributory to any of the Owner's general liability insurance policies and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) forms CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's consultants, CG 20 32 07 04.

§ A.3.2 Contractor's Required Insurance Coverage

§ A.3.2.1 The Contractor shall purchase and maintain the following types and limits of insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:
(If the Contractor is required to maintain insurance for a duration other than the expiration of the period for correction of Work, state the duration.)

§ A.3.2.2 Commercial General Liability

§ A.3.2.2.1 Commercial General Liability insurance for the Project written on an occurrence form with policy limits of not less than One million Dollars and Zero Cents (\$ 1000000.00) each occurrence, Two million Dollars and Zero Cents (\$ 2000000.00) general aggregate, and Two million Dollars and Zero Cents (\$ 2000000.00) aggregate for products-completed operations hazard, providing coverage for claims including

- .1 damages because of bodily injury, sickness or disease, including occupational sickness or disease, and death of any person;
- .2 personal injury and advertising injury;
- .3 damages because of physical damage to or destruction of tangible property, including the loss of use of such property;
- .4 bodily injury or property damage arising out of completed operations; and
- .5 the Contractor's indemnity obligations under Section 3.18 of the General Conditions.

§ A.3.2.2 The Contractor's Commercial General Liability policy under this Section A.3.2.2 shall not contain an exclusion or restriction of coverage for the following:

- .1 Claims by one insured against another insured, if the exclusion or restriction is based solely on the fact that the claimant is an insured, and there would otherwise be coverage for the claim.
- .2 Claims for property damage to the Contractor's Work arising out of the products-completed operations hazard where the damaged Work or the Work out of which the damage arises was performed by a Subcontractor.
- .3 Claims for bodily injury other than to employees of the insured.
- .4 Claims for indemnity under Section 3.18 of the General Conditions arising out of injury to employees of the insured.
- .5 Claims or loss excluded under a prior work endorsement or other similar exclusionary language.
- .6 Claims or loss due to physical damage under a prior injury endorsement or similar exclusionary language.
- .7 Claims related to residential, multi-family, or other habitational projects, if the Work is to be performed on such a project.
- .8 Claims related to roofing, if the Work involves roofing.
- .9 Claims related to exterior insulation finish systems (EIFS), synthetic stucco or similar exterior coatings or surfaces, if the Work involves such coatings or surfaces.
- .10 Claims related to earth subsidence or movement, where the Work involves such hazards.
- .11 Claims related to explosion, collapse and underground hazards, where the Work involves such hazards.

§ A.3.2.3 Automobile Liability covering vehicles owned, and non-owned vehicles used, by the Contractor, with policy limits of not less than One million Dollars and Zero Cents (\$ 1000000.00) per accident, for bodily injury, death of any person, and property damage arising out of the ownership, maintenance and use of those motor vehicles along with any other statutorily required automobile coverage.

§ A.3.2.4 The Contractor may achieve the required limits and coverage for Commercial General Liability and Automobile Liability through a combination of primary and excess or umbrella liability insurance, provided such primary and excess or umbrella insurance policies result in the same or greater coverage as the coverages required under Section A.3.2.2 and A.3.2.3, and in no event shall any excess or umbrella liability insurance provide narrower coverage than the primary policy. The excess policy shall not require the exhaustion of the underlying limits only through the actual payment by the underlying insurers.

§ A.3.2.5 Workers' Compensation at statutory limits.

§ A.3.2.6 Employers' Liability with policy limits not less than Five hundred thousand Dollars and Zero Cents (\$ 500000.00) each accident, Five hundred thousand Dollars and Zero Cents (\$ 500000.00) each employee, and Five hundred thousand Dollars and Zero Cents (\$ 500000.00) policy limit.

§ A.3.2.7 Jones Act, and the Longshore & Harbor Workers' Compensation Act, as required, if the Work involves hazards arising from work on or near navigable waterways, including vessels and docks

§ A.3.2.8 If the Contractor is required to furnish professional services as part of the Work, the Contractor shall procure Professional Liability insurance covering performance of the professional services, with policy limits of not less than One million Dollars and Zero Cents (\$ 1000000.00) per claim and One million Dollars and Zero Cents (\$ 1000000.00) in the aggregate.

§ A.3.2.9 If the Work involves the transport, dissemination, use, or release of pollutants, the Contractor shall procure Pollution Liability insurance, with policy limits of not less than One million Dollars and Zero Cents (\$ 1000000.00) per claim and One million Dollars and Zero Cents (\$ 1000000.00) in the aggregate.

§ A.3.2.10 Coverage under Sections A.3.2.8 and A.3.2.9 may be procured through a Combined Professional Liability and Pollution Liability insurance policy, with combined policy limits of not less than One million Dollars and Zero Cents (\$ 1000000.00) per claim and Two million Dollars and Zero Cents (\$ 2000000.00) in the aggregate.

(Paragraphs Deleted)

§ A.3.3 Contractor's Other Insurance Coverage

§ A.3.3.1 Insurance selected and described in this Section A.3.3 shall be purchased from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Contractor shall maintain the required insurance until the expiration of the period for correction of Work as set forth in Section 12.2.2 of the General Conditions, unless a different duration is stated below:

(If the Contractor is required to maintain any of the types of insurance selected below for a duration other than the expiration of the period for correction of Work, state the duration.)

§ A.3.3.2 The Contractor shall purchase and maintain the following types and limits of insurance in accordance with Section A.3.3.1.

(Select the types of insurance the Contractor is required to purchase and maintain by placing an X in the box(es) next to the description(s) of selected insurance. Where policy limits are provided, include the policy limit in the appropriate fill point.)

§ A.3.3.2.1 Property insurance of the same type and scope satisfying the requirements identified in Section A.2.3, which, if selected in this section A.3.3.2.1, relieves the Owner of the responsibility to purchase and maintain such insurance except insurance required by Section A.2.3.1.3 and Section A.2.3.3. The Contractor shall comply with all obligations of the Owner under Section A.2.3 except to the extent provided below. The Contractor shall disclose to the Owner the amount of any deductible, and the Owner shall be responsible for losses within the deductible. Upon request, the Contractor shall provide the Owner with a copy of the property insurance policy or policies required. The Owner shall adjust and settle the loss with the insurer and be the trustee of the proceeds of the property insurance in accordance with Article 11 of the General Conditions unless otherwise set forth below: *(Where the Contractor's obligation to provide property insurance differs from the Owner's obligations as described under Section A.2.3, indicate such differences in the space below. Additionally, if a party other than the Owner will be responsible for adjusting and settling a loss with the insurer and acting as the trustee of the proceeds of property insurance in accordance with Article 11 of the General Conditions, indicate the responsible party below.)*

§ A.3.3.2.2 Railroad Protective Liability Insurance, with policy limits of not less than (\$) per claim and (\$) in the aggregate, for Work within fifty (50) feet of railroad property.

§ A.3.3.2.3 Asbestos Abatement Liability Insurance, with policy limits of not less than (\$) per claim and (\$) in the aggregate, for liability arising from the encapsulation, removal, handling, storage, transportation, and disposal of asbestos-containing materials.

§ A.3.3.2.4 Insurance for physical damage to property while it is in storage and in transit to the construction site on an "all-risks" completed value form.

§ A.3.3.2.5 Property insurance on an "all-risks" completed value form, covering property owned by the Contractor and used on the Project, including scaffolding and other equipment.

§ A.3.3.2.6 Other Insurance
(List below any other insurance coverage to be provided by the Contractor and any applicable limits.)

Coverage	Limits
Umbrella Excess Liability	\$5,000,000.00

§ A.3.4 Performance Bond and Payment Bond

The Contractor shall provide surety bonds, from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located, as follows:

(Specify type and penal sum of bonds.)

Type	Penal Sum (\$0.00)
Payment Bond	100% of Contract Amount
Performance Bond	100% of Contract Amount

Payment and Performance Bonds shall be AIA Document A312™, Payment Bond and Performance Bond, or contain provisions identical to AIA Document A312™, current as of the date of this Agreement.

ARTICLE A.4 SPECIAL TERMS AND CONDITIONS

Special terms and conditions that modify this Insurance and Bonds Exhibit, if any, are as follows:

**SECTION 01 20 00
PRICE AND PAYMENT PROCEDURES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Procedures for preparation and submittal of applications for progress payments.
- B. Documentation of changes in Contract Sum and Contract Time.
- C. Change procedures.
- D. Procedures for preparation and submittal of application for final payment.

1.02 RELATED REQUIREMENTS

- A. Section 00 52 00 - Agreement Form: Contract Sum, retainages, payment period, monetary values of unit prices.
- B. Section 00 73 00 - Supplementary Conditions: Percentage allowances for Contractor's overhead and profit.
- C. Section 01 21 00 - Allowances: Payment procedures relating to allowances.

1.03 SCHEDULE OF VALUES

- A. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to Architect for approval.
- B. Forms filled out by hand will not be accepted.
- C. Submit a printed schedule on AIA Form G703 - Application and Certificate for Payment Continuation Sheet. Contractor's standard form will be considered.
- D. Submit Schedule of Values in duplicate within 15 days after date of Owner-Contractor Agreement.
- E. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification section. Identify site mobilization.
- F. Include in each line item, the amount of Allowances specified in this section. For unit cost Allowances, identify quantities taken from Contract Documents multiplied by the unit cost to achieve the total for the item.
- G. Include separately from each line item, a direct proportional amount of Contractor's overhead and profit.
- H. Revise schedule to list approved Change Orders, with each Application For Payment.

1.04 APPLICATIONS FOR PROGRESS PAYMENTS

- A. Payment Period: Submit at intervals stipulated in the Agreement.
- B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Architect for approval.
- C. Forms filled out by hand will not be accepted.
- D. For each item, provide a column for listing each of the following:
 - 1. Item Number.
 - 2. Description of work.
 - 3. Scheduled Values.
 - 4. Previous Applications.
 - 5. Work in Place and Stored Materials under this Application.
 - 6. Authorized Change Orders.
 - 7. Total Completed and Stored to Date of Application.
 - 8. Percentage of Completion.
 - 9. Balance to Finish.
 - 10. Retainage.

- E. Form: AIA G702 Application and Certificate for Payment and AIA G703 - Continuation Sheet including continuation sheets when required.
- F. Execute certification by signature of authorized officer.
- G. Submit one electronic and three hard-copies of each Application for Payment.
- H. When Architect requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

1.05 MODIFICATION PROCEDURES

- A. For minor changes not involving an adjustment to the Contract Price or Contract Time, Architect will issue instructions directly to Contractor.
- B. Architect will advise of minor changes in the Work not involving an adjustment to Contract Sum or Contract Time as authorized by the Conditions of the Contract by issuing supplemental instructions on AIA form G710
- C. For other required changes, Architect will issue a document signed by Owner instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
 - 1. The document will describe the required changes and will designate method of determining any change in Contract Sum or Contract Time.
 - 2. Promptly execute the change.
- D. For changes for which advance pricing is desired, Architect will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within 14 days.
- E. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract.
- F. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.
- G. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.
- H. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
- I. Promptly enter changes in Project Record Documents.

1.06 APPLICATION FOR FINAL PAYMENT

- A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.
- B. Application for Final Payment will not be considered until the following have been accomplished:
 - 1. All closeout procedures specified in Section 01 70 00.
 - 2. Completion of all work except those items agreed upon by Owner.
 - 3. Removal of temporary facilities and enclosures.

END OF SECTION

**SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preconstruction meeting.
- B. Progress meetings.
- C. Coordination drawings.
- D. Submittals for review, information, and project closeout.
- E. Number of copies of submittals.
- F. Requests for Information (RFI) procedures.
- G. Submittal procedures.

1.02 RELATED REQUIREMENTS

- A. Section 00 72 00 - General Conditions: Dates for applications for payment.
- B. Section 01 32 16 - Construction Progress Schedule: Form, content, and administration of schedules.
- C. Section 01 60 00 - Product Requirements: General product requirements.
- D. Section 01 70 00 - Execution and Closeout Requirements: Additional coordination requirements.
- E. Section 01 78 00 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- A. Contractor will schedule a meeting after Notice of Award.
- B. Attendance Required:
 - 1. Owner.
 - 2. Architect.
 - 3. Contractor.
 - 4. Subcontractors.
- C. Agenda:
 - 1. Execution of Owner-Contractor Agreement.
 - 2. Submission of executed bonds and insurance certificates.
 - 3. Distribution of Contract Documents.
 - 4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
 - 5. Designation of personnel representing the parties to Contract, Contractor, Owner and JEO Architecture, Inc.
 - 6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 - 7. Scheduling.
- D. Contractor shall record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the work at maximum monthly intervals.

- B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.
- C. Attendance Required:
 - 1. Contractor.
 - 2. Owner.
 - 3. Architect.
 - 4. Contractor's superintendent.
 - 5. Major subcontractors.
- D. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Review of work progress.
 - 3. Field observations, problems, and decisions.
 - 4. Identification of problems that impede, or will impede, planned progress.
 - 5. Review of submittals schedule and status of submittals.
 - 6. Review of RFIs log and status of responses.
 - 7. Review of off-site fabrication and delivery schedules.
 - 8. Maintenance of progress schedule.
 - 9. Corrective measures to regain projected schedules.
 - 10. Planned progress during succeeding work period.
 - 11. Coordination of projected progress.
 - 12. Maintenance of quality and work standards.
 - 13. Effect of proposed changes on progress schedule and coordination.
 - 14. Other business relating to work.
- E. Contractor shall record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

3.04 COORDINATION DRAWINGS

- A. Provide information required by Project Coordinator for preparation of coordination drawings.
- B. Review drawings prior to submission to Architect.

3.05 REQUESTS FOR INFORMATION (RFI)

- A. Definition: A request seeking one of the following:
 - 1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in the Contract Documents.
 - 2. A resolution to an issue which has arisen due to field conditions and affects design intent.
- B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.
- C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of the Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
 - a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
 - b. Do not forward requests which solely require internal coordination between subcontractors.
- 2. Prepare in a format and with content acceptable to Architect.
- 3. Combine RFI and its attachments into a single electronic file. PDF format is preferred.

- D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
1. Include in each request Contractor's signature attesting to good faith effort to determine from the Contract Documents information requiring interpretation.
 2. Unacceptable Uses for RFIs: Do not use RFIs to request the following:
 - a. Approval of submittals (use procedures specified elsewhere in this section).
 - b. Approval of substitutions (see Section - 01 60 00 - Product Requirements)
 - c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
 - d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
 3. Improper RFIs: Requests not prepared in conformance to requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response.
 4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, the Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
- E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
1. Official Project name and number, and any additional required identifiers established in Contract Documents.
 2. Owner's, Architect's, and Contractor's names.
 3. Discrete and consecutive RFI number, and descriptive subject/title.
 4. Issue date, and requested reply date.
 5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
 6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
 7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.
- F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.
- G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
1. Indicate current status of every RFI. Update log promptly and on a regular basis.
 2. Note dates of when each request is made, and when a response is received.
 3. Highlight items requiring priority or expedited response.
 4. Highlight items for which a timely response has not been received to date.
 5. Identify and include improper or frivolous RFIs.
- H. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.
- I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.

1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

3.06 SUBMITTALS FOR REVIEW

- A. When the following are specified in individual sections, submit them for review:
 1. Product data.
 2. Shop drawings.
 3. Samples for selection.
 4. Samples for verification.
- B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed for aesthetic, color, or finish selection.
- D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

3.07 SUBMITTALS FOR INFORMATION

- A. When the following are specified in individual sections, submit them for information:
 1. Design data.
 2. Certificates.
 3. Test reports.
 4. Inspection reports.
 5. Manufacturer's instructions.
 6. Manufacturer's field reports.
 7. Other types indicated.
- B. Submit for Architect's knowledge as contract administrator or for Owner.

3.08 SUBMITTALS FOR PROJECT CLOSEOUT

- A. Submit Correction Punch List for Substantial Completion.
- B. Submit Final Correction Punch List for Substantial Completion.
- C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 78 00 - Closeout Submittals:
 1. Project record documents.
 2. Operation and maintenance data.
 3. Warranties.
 4. Bonds.
 5. Other types as indicated.
- D. Submit for Owner's benefit during and after project completion.

3.09 SUBMITTAL PROCEDURES

- A. General Requirements:
- B. Shop Drawing Procedures:
 1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related Work.

2. Generic, non-project specific information submitted as shop drawings do not meet the requirements for shop drawings.
- C. Transmit each submittal with a copy of approved submittal form.
- D. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- E. Identify Project, Contractor, Subcontractor or supplier, pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- F. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. Shop drawings will be rejected if not reviewed by the Contractor prior to submittal to the Architect.
- G. Deliver submittals to Architect at business address.
- H. Schedule submittals to expedite the Project, and coordinate submission of related items.
- I. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- J. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- K. Provide space for Contractor and Architect review stamps.
- L. When revised for resubmission, identify all changes made since previous submission.
- M. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

3.10 SUBMITTAL REVIEW

- A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.
- B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
- C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
- D. Architect's and consultants' actions on items submitted for review:
 1. Authorizing purchasing, fabrication, delivery, and installation:
 - a. "Approved", or language with same legal meaning.
 - b. "Approved as Noted, Resubmission not required", or language with same legal meaning.
 - 1) At Contractor's option, submit corrected item, with review notations acknowledged and incorporated.
 - c. "Approved as Noted, Resubmit for Record", or language with same legal meaning.
 2. Not Authorizing fabrication, delivery, and installation:
 - a. "Revise and Resubmit".
 - 1) Resubmit revised item, with review notations acknowledged and incorporated.
 - 2) Non-responsive resubmittals may be rejected.
 - b. "Rejected".
 - 1) Submit item complying with requirements of Contract Documents.
- E. Architect's and consultants' actions on items submitted for information:
 1. Items for which no action was taken:
 - a. "Received" - to notify the Contractor that the submittal has been received for record only.
 2. Items for which action was taken:
 - a. "Reviewed" - no further action is required from Contractor.

END OF SECTION

**SECTION 01 32 16
CONSTRUCTION PROGRESS SCHEDULE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preliminary schedule.
- B. Construction progress schedule, bar chart type.

1.02 REFERENCE STANDARDS

- A. AGC (CPSM) - Construction Planning and Scheduling Manual; 2004.
- B. M-H (CPM) - CPM in Construction Management - Project Management with CPM; O'Brien; 2006.

1.03 SUBMITTALS

- A. Within 10 days after date of Agreement, submit preliminary schedule.
- B. If preliminary schedule requires revision after review, submit revised schedule within 5 days.
- C. Within 14 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
 - 1. Include written certification that major Subcontractors have reviewed and accepted proposed schedule.
- D. Within 7 days after joint review, submit complete schedule.
- E. Submit updated schedule with each Application for Payment.
- F. Submit the number of opaque reproductions that Contractor requires, plus two copies that will be retained by Architect.
- G. Submit under transmittal letter form specified in Section 01 30 00 - Administrative Requirements.

1.04 SCHEDULE FORMAT

- A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
- B. Sheet Size: Multiples of 8-1/2 x 11 inches.
- C. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRELIMINARY SCHEDULE

- A. Prepare preliminary schedule in the form of a horizontal bar chart.

3.02 CONTENT

- A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
- B. Identify each item by specification section number.
- C. Identify work of separate stages and other logically grouped activities.
- D. Provide sub-schedules to define critical portions of the entire schedule.
- E. Include conferences and meetings in schedule.
- F. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
- G. Provide separate schedule of submittal dates for shop drawings, product data, and samples, owner-furnished products, products identified under Allowances, and dates reviewed submittals will be required from Architect. Indicate decision dates for selection of finishes.

- H. Indicate delivery dates for owner-furnished products.
- I. Coordinate content with schedule of values specified in Section 01 20 00 - Price and Payment Procedures.
- J. Provide legend for symbols and abbreviations used.

3.03 BAR CHARTS

- A. Include a separate bar for each major portion of Work or operation.
- B. Identify the first work day of each week.

3.04 REVIEW AND EVALUATION OF SCHEDULE

- A. Participate in joint review and evaluation of schedule with Architect at each submittal.
- B. Evaluate project status to determine work behind schedule and work ahead of schedule.
- C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.05 UPDATING SCHEDULE

- A. Maintain schedules to record actual start and finish dates of completed activities.
- B. Indicate progress of each activity to date of revision, with projected completion date of each activity.
- C. Annotate diagrams to graphically depict current status of Work.
- D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.
- E. Indicate changes required to maintain Date of Substantial Completion.
- F. Submit reports required to support recommended changes.
- G. Provide narrative report to define problem areas, anticipated delays, and impact on the schedule. Report corrective action taken or proposed and its effect.

3.06 DISTRIBUTION OF SCHEDULE

- A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned parties.
- B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION

**SECTION 01 40 00
QUALITY REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. References and standards.
- B. Submittals.
- C. References and standards.
- D. Control of installation.
- E. Tolerances.
- F. Testing and inspection agencies and services.
- G. Control of installation.
- H. Tolerances.
- I. Defect Assessment.

1.02 RELATED REQUIREMENTS

- A. Document 00 72 00 - General Conditions: Inspections and approvals required by public authorities.
- B. Section 01 30 00 - Administrative Requirements: Submittal procedures.
- C. Section 01 60 00 - Product Requirements: Requirements for material and product quality.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Testing Agency Qualifications:
 - 1. Prior to start of Work, submit agency name, address, and telephone number, and names of full time registered Engineer and responsible officer.
- C. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents, or for Owner's information.
- D. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor.
 - 1. Include:
 - a. Date issued.
 - b. Project title and number.
 - c. Name of inspector.
 - d. Date and time of sampling or inspection.
 - e. Identification of product and specifications section.
 - f. Location in the Project.
 - g. Type of test/inspection.
 - h. Date of test/inspection.
 - i. Results of test/inspection.
 - j. Compliance with Contract Documents.
 - k. When requested by Architect, provide interpretation of results.
- E. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
 - 1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

2. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect.
- F. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.
- G. Manufacturer's Field Reports: Submit reports for Architect's benefit as contract administrator or for Owner.
 1. Submit report in duplicate within 30 days of observation to Architect for information.
 2. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents.
- H. Erection Drawings: Submit drawings for Architect's benefit as contract administrator or for Owner.
 1. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the contract documents.
 2. Data indicating inappropriate or unacceptable Work may be subject to action by Architect or Owner.

1.04 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.05 TESTING AND INSPECTION AGENCIES AND SERVICES

- A. Contractor will employ services of a Geotechnical Engineer to perform certain specified testing; payment for cost of services will be derived from allowance specified in Section 01 21 00; see Section 01 21 00 and applicable sections for description of services included in allowance.
- B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

- D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.03 TESTING AND INSPECTION

- A. See individual specification sections for testing required.
- B. Testing Agency Duties:
 - 1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
 - 2. Perform specified sampling and testing of products in accordance with specified standards.
 - 3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 4. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
 - 5. Perform additional tests and inspections required by Architect.
 - 6. Submit reports of all tests/inspections specified.
- C. Limits on Testing/Inspection Agency Authority:
 - 1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
 - 2. Agency may not approve or accept any portion of the Work.
 - 3. Agency may not assume any duties of Contractor.
 - 4. Agency has no authority to stop the Work.
- D. Contractor Responsibilities:
 - 1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
 - 2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
 - 3. Provide incidental labor and facilities:
 - a. To provide access to Work to be tested/inspected.
 - b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
 - c. To facilitate tests/inspections.
 - d. To provide storage and curing of test samples.
 - 4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
 - 5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
 - 6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

- E. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.
- F. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.04 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not complying with specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary utilities.
- B. Temporary sanitary facilities.
- C. Temporary Controls: Barriers, enclosures, and fencing.
- D. Security requirements.
- E. Vehicular access and parking.
- F. Waste removal facilities and services.

1.02 TEMPORARY UTILITIES

- A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.
- B. Existing facilities may not be used.
- C. New permanent facilities may not be used.

1.03 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.

1.04 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
- C. Provide protection for plants designated to remain. Replace damaged plants.
- D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.05 FENCING

- A. Construction: Contractor's option.

1.06 EXTERIOR ENCLOSURES

- A. Provide temporary insulated weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.07 SECURITY

- A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.08 VEHICULAR ACCESS AND PARKING

- A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
- B. Coordinate access and haul routes with governing authorities and Owner.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Provide means of removing mud from vehicle wheels before entering streets.

- E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.09 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site weekly.
- C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.10 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.
- B. Clean and repair damage caused by installation or use of temporary work.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 60 00
PRODUCT REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General product requirements.
- B. Transportation, handling, storage and protection.
- C. Product option requirements.
- D. Substitution limitations.
- E. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

- A. Document 00 21 13 - Instructions to Bidders: Product options and substitution procedures prior to bid date.
- B. Section 01 25 00 - Substitution Procedures: Substitutions made during procurement and/or construction phases.
- C. Section 01 40 00 - Quality Requirements: Product quality monitoring.

1.03 SUBMITTALS

- A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
 - 1. Submit within 15 days after date of Agreement.
 - 2. For products specified only by reference standards, list applicable reference standards.
- B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
 - 1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

- A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.
- B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.
- C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by the Contract Documents.
- B. Use of products having any of the following characteristics is not permitted:
 - 1. Made using or containing CFC's or HCFC's.

2.03 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.04 MAINTENANCE MATERIALS

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

- A. See Section 01 25 00 - Substitution Procedures.
- B. Instructions to Bidders specifies time restrictions for submitting requests for substitutions during the bidding period and the documents required. Comply with requirements specified in Section 00 21 13.
- C. Substitutions may be considered when a product becomes unavailable through no fault of the Contractor.
- D. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- E. A request for substitution constitutes a representation that the submitter:
 - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 2. Agrees to provide the same warranty for the substitution as for the specified product.
 - 3. Agrees to coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
 - 4. Waives claims for additional costs or time extension that may subsequently become apparent.
- F. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- G. Substitution Submittal Procedure:
 - 1. Submit three copies of request for substitution for consideration. Limit each request to one proposed substitution.
 - 2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
 - 3. Architect will notify Contractor in writing of decision to accept or reject request.

3.02 TRANSPORTATION AND HANDLING

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.

- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
- H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 01 74 19.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground.
- F. Provide off-site storage and protection when site does not permit on-site storage or protection.
- G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
- H. Comply with manufacturer's warranty conditions, if any.
- I. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- J. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- K. Prevent contact with material that may cause corrosion, discoloration, or staining.
- L. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- M. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

**SECTION 01 70 00
EXECUTION AND CLOSEOUT REQUIREMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Cutting and patching.
- C. Surveying for laying out the work.
- D. Cleaning and protection.
- E. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
- F. General requirements for maintenance service.

1.02 RELATED REQUIREMENTS

- A. Section 01 30 00 - Administrative Requirements: Submittals procedures, Electronic document submittal service.
- B. Section 01 40 00 - Quality Requirements: Testing and inspection procedures.
- C. Section 01 50 00 - Temporary Facilities and Controls: Temporary exterior enclosures.
- D. Section 01 50 00 - Temporary Facilities and Controls: Temporary interior partitions.
- E. Section 01 78 00 - Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.

1.03 QUALIFICATIONS

- A. For surveying work, employ a land surveyor registered in the State in which the Project is located and acceptable to Architect. Submit evidence of surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate. Employ only individual(s) trained and experienced in collecting and recording accurate data relevant to ongoing construction activities,

1.04 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- A. **New Materials:** As specified in product sections; match existing products and work for patching and extending work.
- B. **Type and Quality of Existing Products:** Determine by inspecting and testing products where necessary, referring to existing work as a standard.
- C. **Product Substitution:** For any proposed change in materials, submit request for substitution described in Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. **Prior to Cutting:** Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 LAYING OUT THE WORK

- A. Verify locations of survey control points prior to starting work.
- B. Promptly notify Architect of any discrepancies discovered.
- C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.
- F. Utilize recognized engineering survey practices.
- G. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
 - 1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
 - 2. Grid or axis for structures.
 - 3. Building foundation, column locations, ground floor elevations.
- H. Periodically verify layouts by same means.
- I. Maintain a complete and accurate log of control and survey work as it progresses.

3.04 GENERAL INSTALLATION REQUIREMENTS

- A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.05 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. Perform whatever cutting and patching is necessary to:
 - 1. Complete the work.
 - 2. Fit products together to integrate with other work.
 - 3. Provide openings for penetration of mechanical, electrical, and other services.
 - 4. Match work that has been cut to adjacent work.
 - 5. Repair areas adjacent to cuts to required condition.
 - 6. Repair new work damaged by subsequent work.
 - 7. Remove samples of installed work for testing when requested.
 - 8. Remove and replace defective and non-complying work.
- C. Execute cutting and patching including excavation and fill to complete the work, to uncover working order to install improperly sequenced work, to remove and replace defective or non-conforming work, to remove samples of installed work for testing when requested, to provide openings in the work for penetration of mechanical and electrical work, to execute patching to complement adjacent work, and to fit products together to integrate with other work.
- D. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- E. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- G. Restore work with new products in accordance with requirements of Contract Documents.
- H. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- I. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 84 00, to full thickness of the penetrated element.
- J. Patching:
 - 1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
 - 2. Match color, texture, and appearance.
 - 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.
- K. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
- L. Make neat transitions. Patch work to match adjacent work in texture and appearance. Where new work abuts or aligns with existing, perform a smooth and even transition.

3.06 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.07 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- G. Prohibit traffic from landscaped areas.
- H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.08 ADJUSTING

- A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.09 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.
- B. Use cleaning materials that are nonhazardous.
- C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
- E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- F. Replace filters of operating equipment.
- G. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, and drainage systems.
- H. Clean site; sweep paved areas, rake clean landscaped surfaces.
- I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.10 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
- B. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.

- C. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
- D. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
- E. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
- F. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
- G. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

3.11 MAINTENANCE

- A. Provide service and maintenance of components indicated in specification sections.
- B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.
- C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.
- E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

END OF SECTION

**SECTION 01 78 00
CLOSEOUT SUBMITTALS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Project Record Documents.
- B. Operation and Maintenance Data.
- C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

- A. Section 00 73 00 - Supplementary Conditions: Performance bond and labor and material payment bonds, warranty, and correction of work.
- B. Section 01 30 00 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- C. Section 01 70 00 - Execution and Closeout Requirements: Contract closeout procedures.
- D. Individual Product Sections: Specific requirements for operation and maintenance data.
- E. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

- A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
- B. Operation and Maintenance Data:
 - 1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect will review draft and return one copy with comments.
 - 2. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
 - 3. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect comments. Revise content of all document sets as required prior to final submission.
 - 4. Submit two sets of revised final documents in final form within 10 days after final inspection.
- C. Warranties and Bonds:
 - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
 - 2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

- 1. Specifications.
- 2. Reviewed shop drawings, product data, and samples.
- 3. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.
 - 4. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.

- C. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

3.02 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

- A. For Each Product, Applied Material, and Finish:
 - 1. Product data, with catalog number, size, composition, and color and texture designations.
 - 2. Information for re-ordering custom manufactured products.
- B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
- C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.
- D. Additional information as specified in individual product specification sections.
- E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.
- F. Provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

3.03 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

- A. For Each Item of Equipment and Each System:
 - 1. Description of unit or system, and component parts.
 - 2. Identify function, normal operating characteristics, and limiting conditions.
 - 3. Include performance curves, with engineering data and tests.
 - 4. Complete nomenclature and model number of replaceable parts.
- B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.
- C. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.
- D. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- E. Provide servicing and lubrication schedule, and list of lubricants required.
- F. Include manufacturer's printed operation and maintenance instructions.
- G. Include sequence of operation by controls manufacturer.
- H. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- I. Additional Requirements: As specified in individual product specification sections.

3.04 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

- A. Assemble operation and maintenance data into durable manuals for Owner's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.
- B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
- C. Prepare instructions and data by personnel experienced in maintenance and operation of described products.
- D. Prepare data in the form of an instructional manual.

- E. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.
- F. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- G. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect, Consultants, Contractor and subcontractors, with names of responsible parties.
- H. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.
- I. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.
- J. Text: Manufacturer's printed data, or typewritten data on 24 pound paper.
- K. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- L. Arrange content by systems under section numbers and sequence of Table of Contents of this Project Manual.
- M. Contents: Prepare a Table of Contents for each volume, with each product or system description identified, in three parts as follows:
 - 1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect, Contractor, Subcontractors, and major equipment suppliers.
 - 2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
 - a. Significant design criteria.
 - b. List of equipment.
 - c. Parts list for each component.
 - d. Operating instructions.
 - e. Maintenance instructions for equipment and systems.
 - f. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
 - 3. Part 3: Project documents and certificates, including the following:
 - a. Shop drawings and product data.
 - b. Air and water balance reports.
 - c. Certificates.
 - d. Photocopies of warranties and bonds.
- N. Provide a listing in Table of Contents for design data, with tabbed dividers and space for insertion of data.
- O. Table of Contents: Provide title of Project; names, addresses, and telephone numbers of Architect, Consultants, and Contractor with name of responsible parties; schedule of products and systems, indexed to content of the volume.

3.05 WARRANTIES AND BONDS

- A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.
- B. Verify that documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.

- D. Retain warranties and bonds until time specified for submittal.
- E. Manual: Bind in commercial quality 8-1/2 by 11 inch three D side ring binders with durable plastic covers.
- F. Cover: Identify each binder with typed or printed title WARRANTIES AND BONDS, with title of Project; name, address and telephone number of Contractor and equipment supplier; and name of responsible company principal.
- G. Table of Contents: Neatly typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item.
- H. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. List Subcontractor, supplier, and manufacturer, with name, address, and telephone number of responsible principal.

END OF SECTION

**SECTION 02 41 00
DEMOLITION**

PART 3 EXECUTION

1.01 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 3. Provide, erect, and maintain temporary barriers and security devices.
 - 4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 5. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
 - 6. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
 - 7. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Protect existing structures and other elements to remain in place and not removed.
 - 1. Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger.

1.02 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

**SECTION 03 30 00
CAST-IN-PLACE CONCRETE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete formwork.
- B. Concrete topping for elevated slabs..
- C. Concrete topping on structural stoops.
- D. Floors and slabs on grade.
- E. Concrete footings.
- F. Concrete foundation walls.
- G. Concrete reinforcement.
- H. Joint devices associated with concrete work.
- I. Miscellaneous concrete elements, including equipment pads and flagpole bases.
- J. Concrete curing.

1.02 RELATED REQUIREMENTS

- A. Section 01 40 00 - Quality Requirements: for procedural requirements for testing of concrete.
- B. Section 03 35 11 - Concrete Floor Finishes
- C. Section 07 90 05 - Joint Sealers.
- D. Section 32 13 13 - Concrete Paving: for exterior concrete.

1.03 REFERENCE STANDARDS

- A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials; American Concrete Institute International; 2006.
- B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete; American Concrete Institute International; 1991 (Reapproved 2002).
- C. ACI 301 - Specifications for Structural Concrete for Buildings; American Concrete Institute International; 2005.
- D. ACI 302.1R - Guide for Concrete Floor and Slab Construction; American Concrete Institute International; 2004 (Errata 2007).
- E. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; American Concrete Institute International; 2000.
- F. ACI 305R - Hot Weather Concreting; American Concrete Institute International; 1999.
- G. ACI 306R - Cold Weather Concreting; American Concrete Institute International; 1988 (Reapproved 2002).
- H. ACI 308R - Guide to Curing Concrete; American Concrete Institute International; 2001 (Reapproved 2008).
- I. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; American Concrete Institute International; 2008.
- J. ACI 347 - Guide to Formwork for Concrete; American Concrete Institute International; 2004.
- K. ASTM A 185/A 185M - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete; 2007.
- L. ASTM A 615/A 615M - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement; 2007.
- M. ASTM C 33 - Standard Specification for Concrete Aggregates; 2007.

- N. ASTM C 39/C 39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2005.
- O. ASTM C 94/C 94M - Standard Specification for Ready-Mixed Concrete; 2007.
- P. ASTM C 143/C 143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2008.
- Q. ASTM C 150 - Standard Specification for Portland Cement; 2007.
- R. ASTM C 171 - Standard Specification for Sheet Materials for Curing Concrete; 2007.
- S. ASTM C 173/C 173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method; 2008a.
- T. ASTM C 260 - Standard Specification for Air-Entraining Admixtures for Concrete; 2006.
- U. ASTM C 309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2007.
- V. ASTM C 494/C 494M - Standard Specification for Chemical Admixtures for Concrete; 2008a.
- W. ASTM E1155 Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers"

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements.
- C. Design Mixes: For each concrete mix, include mix designs when characteristics of materials, project conditions, weather, test results or other circumstances warrant adjustments.
 - 1. Indicate amounts of mix water to be withheld for later addition at project site.
- D. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:
 - 1. Cementitious materials and aggregates
 - 2. Steel reinforcement and reinforcement accessories
 - 3. Admixtures
- E. Shop Drawings - Steel Reinforcement: Details of fabrication, bending, and placement prepared according to ACI 315.
 - 1. Included material, grade, bar schedules, stirrup spacing, bent bar diagrams, arrangement and supports of concrete reinforcement.
 - 2. Include special reinforcement required for openings through concrete structures.
- F. Project Record Documents: Accurately record actual locations of embedded utilities and components that will be concealed from view upon completion of concrete work.

1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301 and ACI 318.
- B. Follow recommendations of ACI 305R when concreting during hot weather.
- C. Follow recommendations of ACI 306R when concreting during cold weather.
- D. Installer Qualifications: An experienced installer who has completed concrete work similar in material, design, and extent to that indicated for this project and whose work has resulted in construction with a record of successful in-service performance.
- E. Manufacturer's Qualifications: Firm experienced in manufacturing ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.
 - 1. Manufacturer must be certified according to the National Ready Mixed Concrete Association Certification of Ready Mixed Concrete Production Facilities.
- F. Testing Agency Qualifications: Independent testing agency acceptable to authorities having jurisdiction qualified according to ASTM C 1077 and ASTM E 329 to conduct testing indicated as documented according to ASTM E 548.

- G. Obtain each type or class of cementitious material of the same brand from the same source, aggregate from same source, and each admixture from same source.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle steel reinforcement to prevent bending and damage.
- B. Avoid damaging coatings on steel reinforcement.

PART 2 PRODUCTS

2.01 FORMWORK

- A. Formwork Design and Construction: Comply with guidelines of ACI 347 to provide formwork that will produce concrete complying with tolerances of ACI 117.
 - 1. Exposed finished concrete surfaces shall be formed using plywood, metal or other approved panel material. Provide continuous, straight, smooth, exposed surfaces and furnish forms in largest possible sizes to minimize the number of joints and that conform to joint system shown on plans.
 - a. Use overlaid plywood complying with U.S. Product Standard PS-1 "A-C or B-B High Density Overlaid Concrete Form, Class 1"
 - b. Use of aluminum forms is prohibited.
 - 2. Unexposed finished concrete surfaces shall be formed using plywood, metal or other approved panel material. Provide lumber dressed on at least two (2) edges and one side for tight fit.
 - a. Use of aluminum forms is prohibited.
 - 3. Form Coatings shall be commercial formulation foam-coating compounds with a minimum VOC of 350 mg/L that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.
 - a. For steel forms, formulate form-release agent with rust inhibitor.
 - 4. Form Ties shall be factory fabricated, adjustable length, removable or snap-off metal form ties designed to prevent form deflection and to prevent spalling concrete upon removal.
 - a. Provide ties that will leave no metal closer than 1-1/2 inches to exposed surface.
 - b. Provide ties that will leave holes no larger than 1 inch diameter in concrete surface.
 - 5. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.
 - 6. Form Ties: Cone snap type that will leave no metal within 1-1/2 inches of concrete surface.

2.02 REINFORCEMENT

- A. Reinforcing Steel: ASTM A 615/A 615M Grade 60 (420), deformed.
- B. Steel Welded Wire Reinforcement: ASTM A 185/A 185M, plain type.
 - 1. Fabricated from as-drawn steel wire into flat sheets. Rolled sheets not permitted
- C. Reinforcement Accessories:
 - 1. Chairs, Bolsters, Bar Supports, Spacers and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Sized and shaped for adequate support of reinforcement during concrete placement.
 - 2. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.03 CONCRETE MATERIALS

- A. Cement: ASTM C 150, Type I or Type III Portland Cement.
 - 1. Acquire all cement for entire project from same source, type, and brand.
 - 2. Cement may be supplemented with Fly Ash: ASTM C 618, Class C.
- B. Normal-weight Aggregates: ASTM C 33, graded, 3/4 inch and 1-1/2 inch nominal maximum coarse-aggregate size.
- C. Fine Aggregates: Free of materials with deleterious reactivity to alkali in cement.

1. Acquire all aggregates for entire project from same source.
- D. Water: Clean and not detrimental to concrete. ASTM C 94 and potable.

2.04 CHEMICAL ADMIXTURES

- A. Provide admixtures certified by manufacturer to be compatible with other admixtures. Do not use calcium chloride or admixtures containing calcium chloride.
- B. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
- C. Air Entrainment Admixture: ASTM C 260.
- D. High Range Water Reducing and Retarding Admixture: ASTM C 494/C 494M Type G.
- E. High Range Water Reducing Admixture: ASTM C 494/C 494M Type F.
- F. Water Reducing and Retarding Admixture: ASTM C 494/C 494M Type D.
- G. Retarding Admixture: ASTM C 494/C 494M Type B.
- H. Water Reducing Admixture: ASTM C 494/C 494M Type A.
- I. Plasticizing and Retarding Admixture: ASTM C 1017, Type II
- J. Synthetic Fiber: Monofilament or fibrillated polypropylene fibers engineered and designed for use in concrete pavement, complying with ASTM C 1116, Type III, 1 to 1-1/2 inches long.

2.05 ACCESSORY MATERIALS

- A. Vapor Barrier Membrane must meet the following requirements:
 1. Maintain permeance of less than 0.01 Perms [grains/(ft² - hr - inHg)] as tested in accordance with mandatory conditioning tests per ASTM E1745 Section 7.1 (7.1.1-7.1.5).
 2. Other performance criteria:
 - a. Strength: ASTM E1745 Class A.
 - b. Thickness: 15 mils minimum
 - c. Water Vapor Permeance: ASTM F1249, 0.0086 perms
 - d. Puncture Resistance: ASTM D1709, 2,266 grams
 - e. Tensile Strength: ASTM D882, 70.6lb/in.
 3. Acceptable Manufacturers:
 - a. Stego Wrap 15-mil Vapor Barrier by STEGO INDUSTRIES, LLC., San Juan Capistrano, CA (877) 464-7834, www.stegoindustries.com.
 - b. Perminator 15-mil Vapor Barrier by W.R. Meadows, Hampshire, IL (847) 214-2100, www.wrmeadows.com.
 - c. Zeroperm by Alumiseal, Hanover, MA (781) 261-9991.
 4. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated pipe boots, etc., for sealing seams and penetrations in vapor retarder.

2.06 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming manufactured for application to fresh concrete.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable
- E. Clear, Waterborne, Membrane-forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.
- F. Clear, Waterborne, Membrane-forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A, exterior applications

2.07 RELATED MATERIALS

- A. Expansion- and Isolation-Joint Filler Strips: Sonneborn Sonoflex F or equal.
- B. Granular Fill: As identified within the Geotechnical Exploration Report. (See specification Section 00 31 00 - Available Project Information)
- C. Patching compound: Cement-based compound for applications from one inch thick to feathered edge.
- D. Bonding Compound: Polyvinyl acetate or acrylic base.

2.08 CONCRETE MIX DESIGN

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
- B. Proportioning Normal Weight Concrete Mixture for interior slabs-on-grade:
 - 1. Minimum compressive strength: 4,000 psi at 28 days.
 - 2. Limestone mix with 3/4 inch coarse-aggregate size.
 - 3. Maximum Water-Cementitious Materials Ratio: 0.48.
 - 4. Fly ash or other pozzolans not to exceed 15 percent of cement content by weight.
 - 5. Slump Limit: 3 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch.
 - 6. Air Content: Do not allow air content of troweled finished floors to exceed 3 percent.
- C. Proportioning Normal Weight Concrete Mixture for foundation walls as follows:
 - 1. Minimum compressive Strength: 4,000 psi at 28 days.
 - 2. Limestone mix with 3/4 inch coarse-aggregate size.
 - 3. Maximum Water-Cementitious Materials Ratio: 0.48.
 - 4. Fly ash or other pozzolans not to exceed 15 percent of cement content by weight.
 - 5. Slump Limit: 3 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch.
 - 6. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 3/4 nominal maximum aggregate size.
- D. Proportioning Normal Weight Concrete Mixture for footings as follows:
 - 1. Minimum compressive Strength: 3,500 psi at 28 days.
 - 2. Limestone mix with 3/4 inch coarse-aggregate size.
 - 3. Maximum Water-Cementitious Materials Ratio: 0.53.
 - 4. Fly ash or other pozzolans not to exceed 25 percent of cement content by weight.
 - 5. Slump Limit: 3 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch.
 - 6. Air Content: 6 percent plus or minus 1.5 percent at point of delivery for 3/4 nominal maximum aggregate size.
- E. Proportioning Normal Weight Concrete Mixture for concrete topping on structural stoops as follows:
 - 1. Minimum compressive Strength: 4,000 psi at 28 days.
 - 2. Limestone mix with 3/4 inch coarse-aggregate size.
 - 3. Maximum Water-Cementitious Materials Ratio: 0.48.
 - 4. Fly ash or other pozzolans not to exceed 15 percent of cement content by weight.
 - 5. Slump Limit: 3 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch (25 mm).
 - 6. Air Content: 6 percent plus or minus 1.5 percent at point of delivery for 3/4 nominal maximum aggregate size.
- F. Proportioning Normal Weight Concrete Mixture for elevated slabs as follows:
 - 1. Minimum Compressive Strength: 4,000 psi at 28 days.
 - 2. Limestone mix with 3/4 inch coarse aggregate size.
 - 3. Maximum water-cement ratio: 0.45.

4. Fly ash or other pozzolans not to exceed 15 percent of cement content by weight.
5. Slump: Maximum 3 inches before adding high-range water-reducing admixture or plasticizing admixture, plus or minus 1 inch.
6. Air Content: Do not allow air content of trowel-finished floors to exceed 3 percent.

2.09 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to the Concrete Reinforcing Steel Institute's (CRSI) "Manual of Standard Practice."

2.10 MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94 and furnish batch ticket information.
 1. When air temperature is between 85 and 90 degrees F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes. When air temperature is above 90 degrees F, reduce mixing and delivery time to 60 minutes.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.02 PREPARATION

- A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
 1. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated within tolerance limits of ACI 117.
 - a. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical. Kerf wood inserts for forming keyways, reglets, recesses and the like for easy removal.
 - b. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.
 - c. Chamfer exterior corners and edges of permanently exposed concrete.
 - d. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris before placing concrete.
 - e. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.
 - f. Verify that forms are clean and free of rust before applying release agent. Coat contact surfaces of forms with form-releasing agent according to manufacturer's directions before placing reinforcement.
- B. Embedded Items: Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 1. Install anchor bolts, accurately located, to elevations required.
- C. Coordinate placement of joint devices with erection of concrete formwork and placement of form accessories.
- D. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade.
 1. Place, protect, and repair according to ASTM E 1643 and manufacturer's written instructions.
 2. Lap joints minimum 6 inches. Lap vapor barrier over footings and seal to foundation walls.
 3. Seal joints, seams, and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions.

4. No penetration of vapor barriers is allowed except for reinforcing steel and permanent utilities.
5. Vapor Retarder Over Granular Fill: Install compactible granular fill before placing vapor retarder as shown on the drawings. Do not use sand. Vapor barrier shall wrap up edges to top of slab.

3.03 INSTALLING REINFORCEMENT

- A. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.
 1. Do not cut or puncture vapor barriers. repair damage and reseal vapor retarder before placing concrete.
- B. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcing by bolsters, chairs, or other devices to maintain minimum concrete cover. Do not secure reinforcement to re-bar driven into ground or on rocks, dirt clods, or other debris. Do not "float in" reinforcement.
- C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete not toward exposed concrete surfaces.
- D. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire. Rolled stock is not permitted.
 1. Lap edges and ends of adjoining sheets at least one full mesh spacing and lace splices with tie wire.
 2. Offset laps of adjoining sheet widths to prevent continuous laps in either direction.

3.04 JOINT PLACEMENT

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install diamond dowels per structural details so strength and appearance of concrete are not impaired at locations indicated or as approved by Architect.
- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness and at a maximum length to width ratio of 1.25 and as follows:
 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8 inch wide joints into concrete when cutting action will not tear, abrade or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations as indicated.
 1. Extend joint filler strips full width and depth of joint terminating flush with finished concrete surface unless otherwise indicated.
 2. Terminate full-width joint-filler strips not less than 1/2 inch or more than 1 inch below finished concrete surface where joint sealants are indicated.
 3. Install joint-filler strips in lengths as long as practical. Where more than one length is required, lace or clip sections together.
- E. Dowel Joints: Install diamond dowel sleeves and dowel support assemblies at joints where indicated. Use dowel sleeves or lubricate or asphalt-coat 1/2 of dowel length to prevent concrete bonding to 1 side of joint.
- F. Water Stops: Install flexible water stops in construction joints as indicated to form a continuous diaphragm. Install in longest lengths practical. Support and protect exposed water stops

during progress of work. Field Fabricate joints in water stops according to manufacturer's instructions.

- G. Provide joint fillers and sealant at all isolation and expansion joints but not at contraction joints.
- H. At concrete toppings, tool or sawcut control joints immediately over existing joints. If existing concrete is cracked, install joints on lines parallel and perpendicular to the building as close to the crack locations as possible.

3.05 PLACING CONCRETE

- A. Place concrete in accordance with ACI 304R.
- B. Place concrete for floor slabs in accordance with ACI 302.1R.
- C. Cold-weather Placement: Comply with ACI 306.1
- D. Hot-weather Placement: Comply with ACI 305R.
- E. Before placing concrete, ensure installation of formwork, reinforcement, embedded parts, formed construction joint devices, and vapor barriers is complete and will not be disturbed during concrete placement.
- F. Before placing concrete, verify that all required inspections have been performed.
- G. Repair under slab vapor retarder damaged during placement of concrete reinforcing. Repair with vapor retarder material; lap over damaged areas minimum 6 inches and seal watertight.
- H. Install joint devices in accordance with manufacturer's instructions.
- I. Deposit concrete continuously or in layers at such thickness that no concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as specified. Deposit concrete to avoid segregation.
 - 1. Concrete free fall distance shall not exceed 5 feet. This includes free fall in a discharge pipe. Chute and tremie pipes may be used for conveying concrete to the forms when authorized by the Architect.
 - 2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
- J. Deposit concrete in forms in horizontal layers no deeper than 18 inches and in a manner to avoid inclined construction joints. Place each layer while preceding layer is still plastic to avoid cold joints.
- K. Deposit and consolidate concrete for floors and slabs in continuous operation within limits of construction joints until placement of panel or section is complete.
 - 1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 - 2. Maintain reinforcement in position on chairs during concrete placement.
 - 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
 - 4. Slope surfaces uniformly to drain where required.
 - 5. Begin initial floating using bull floats or darbies to form a uniform and open-texture surface plane, free of humps or hollows, before excess moisture or bleed water appears on surface. Do not further disturb slab surfaces before starting finishing operations.
- L. Screed floors level, maintaining surface flatness of maximum 1/4 inch in 10 ft.

3.06 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height.
- C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
 - 1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.

2. Grout Cleaned Finish: Wet areas to be cleaned and apply grout mixture by brush or spray; scrub immediately to remove excess grout. After drying, rub vigorously with clean burlap, and keep moist for 36 hours.
 3. Cork Floated Finish: Immediately after form removal, apply grout with trowel or firm rubber float; compress grout with low-speed grinder, and apply final texture with cork float.
- D. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
1. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power-driven floats. Re-straighten, cut down high spots and fill low spots. Repeat float passes and re-straightening until surface is left with a uniform, smooth, granular texture.
 - a. Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing.
 2. Trowel Finish: After applying float finish, apply first trowel finish and consolidate concrete by hand or power-driven trowel. Continue troweling passes and re-straighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
 - a. Apply a trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic, or quarry tile set over a cleavage membrane, paint, or another thin-film finish coating system.
 - b. Finish and measure surface to conform to FF 50, - FL 50 tolerances, very flat for areas to received polished concrete finish. Refer to Section 03 35 11, Concrete Floor Finishes.
 3. Trowel and Fine-Broom Finish: Apply a first trowel finish to pavement surfaces. While concrete is still plastic, slightly scarify surface with a fine broom.
 - a. Comply with flatness and levelness tolerances for trowel finished floor surfaces.
 4. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.
 5. Other Surfaces to Be Left Exposed: "Steel trowel" as described in ACI 302.1R, minimizing burnish marks and other appearance defects.
 6. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.07 CURING AND PROTECTION

- A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 1. Moisture Curing: Keep surfaces continuously moist for not less than 7 days.
 2. Moisture Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete placed in widest practicable width with sides and ends lapped at least 12 inches and sealed by waterproof tape or adhesive. Cure for not less than 7 days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
 - a. After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer unless manufacturer certifies curing compound will not interfere with bonding of floor covering used on Project.

4. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.
5. a. Product: L&M Cure as manufactured by L&M Chemicals
- C. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finish.
- D. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces by one of the methods listed above in formed surfaces.
 1. Slabs and Floors To Receive Adhesive-Applied Flooring: Curing compounds and other surface coatings are usually considered unacceptable by flooring and adhesive manufacturers. If such materials must be used, either obtain the approval of the flooring and adhesive manufacturers prior to use or remove the surface coating after curing to flooring manufacturer's satisfaction.

3.08 JOINT FILLING

- A. Prepare, clean, and install joint filler according to manufacturer's directions.
- B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints. Leave contact faces of joint clean and dry.
- C. Install semi-rigid epoxy joint filler depth in saw-cut joints and at least 2 inches into deep-formed joints. Overfill joint and trim joint filler flush with lip of joint after hardening.

3.09 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified below and Section 01 40 00. Scheduling of testing to be coordinated by GC and paid for by owner.
 1. Testing Services: Tests shall be performed according to ACI 301.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.
- D. Compressive Strength Tests: ASTM C 39/C 39M. For each day's pour, mold and cure four concrete test cylinders. Obtain test samples for every 50 cu yd thereafter, or less for each class of concrete placed. One specimen tested at 7 days, two specimens tested at 28 days, and one specimen retained in reserve for later testing if required.
 1. Strength of each concrete mix will be satisfactory if averages of sets of three consecutive strength test results equal or exceed specified compressive strength, and no individual strength test result falls below specified compressive strength by more than 500 psi.
- E. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- F. Perform one slump test, following procedures of ASTM C 143/C 143M, at point of discharge for each day's pour of each type of concrete; additional tests when concrete consistency seems to have changed.
- G. Perform air content tests for each day's pour of each type of air-entrained concrete.
 1. ASTM C 173 - volumetric method for lightweight or normal weight concrete
 2. ASTM C 231 - pressure method for normal weight concrete
- H. Report test results in writing to Owner, Architect, Structural Engineer, Ready-Mix Producer, and Contractor within 24 hours after tests.

- I. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not be met. Conduct tests by core cylinders complying with ASTM C 42 or other methods as directed by the Architect.
- J. Concrete Trucks shall not be rinsed on Owner's property nor on adjacent property.

3.10 DEFECTIVE CONCRETE

- A. Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.
- B. Repair or replacement of defective concrete will be determined by the Architect. The cost of additional testing shall be borne by Contractor when defective concrete is identified.
- C. Filling In: Fill in holes and openings left in concrete structures for passage of work by other trades. Mix, place, and cure concrete to blend with in-place construction.
- D. Repair of Unformed Surfaces: Test unformed surfaces, such as monolithic slabs, for smoothness and slope using a template. Correct low and high areas as herein specified.
 - 1. Repair finished unformed surfaces that contain defects that affect durability of concrete, reinforcement, spalling, popouts, honeycomb, rock pockets, and other objectionable conditions.
 - 2. Correct high areas in unformed surfaces by grinding after concrete has cured at least 14 days.
 - 3. Correct low areas in unformed surfaces by cutting out low areas and replacing with patching compound. Finish repaired areas to blend into adjacent concrete.
 - 4. Repair defective areas, except random cracks and single holes not exceeding 1 inch in diameter, by cutting out and replacing with fresh concrete. Remove defective areas to sound concrete with clean, square cuts and expose reinforcing steel with at least 3/4 inch clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding compound. Mix patching concrete of same materials to provide concrete of same type of class as original concrete. Place, compact, and finish to blend with adjacent finished concrete.

END OF SECTION

**SECTION 03 35 11
CONCRETE FLOOR FINISHES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface treatments.
- B. Liquid densifiers and hardeners.

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.
- B. Section 03 30 00 - Cast-in-Place Concrete: Curing compounds that also function as sealers.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
- B. Coordinate the work with concrete floor placement and concrete floor curing.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.
- C. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's sealed packaging, including application instructions.

1.06 FIELD CONDITIONS

- A. Maintain light level equivalent to a minimum 200 W light source at 8 feet above the floor surface over each 20 foot square area of floor being finished.

PART 2 PRODUCTS

2.01 DENSIFIERS AND HARDENERS

- A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores, hardening, and dustproofing.
 - 1. Products:
 - a. L&M Construction Chemicals, Inc; LiON HARD: www.lmcc.com/#sle.
 - b. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 OIL AND WATER REPELLENT

- A. Oil and Water Repellent: Water-based solution containing invisible and VOC compliant emulsion of silane siloxane and synthetic polymers. Treats concrete pavements, natural or synthetic stone surfaces, chemically hardened commercial and industrial building floors to resist the penetration of water and oil.
 - 1. Composition: Silane / Siloxane / Synthetic Polymer
 - 2. Color: White liquid, dries invisible
 - 3. Products:
 - a. L&M Construction Chemicals, Inc; Petrotex: www.lmcc.com.
 - b. Substitutions: See Section 01 6000 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that floor surfaces are acceptable to receive the work of this section.
- B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

- C. Assure concrete has been cured a minimum of three days before application.
- D. Protect concrete from construction activity staining.

3.02 GENERAL

- A. Apply materials in accordance with manufacturer's instructions.

3.03 DENSIFIERS AND HARDENERS APPLICATION

- A. Apply directly from sealer container onto prepared surfaces, undiluted.
- B. Application equipment: Mechanical "walk-behind" or riding scrubber.
- C. Apply at minimum rate as recommended by manufacturer.
- D. Remove excess sealer as recommended by manufacturer.
- E. Apply in one coat.

3.04 OIL AND WATER REPELLENT APPLICATION

- A. Surfaces should be clean from dust, dirt, oils, grease, curing compounds, other coatings that are not compatible, efflorescence and laitance before applying.
- B. New concrete should be allowed to cure for at least 21 days before applying.
- C. Repair work should be performed at least three days before application.
- D. Remove all film forming sealers or curing compounds prior to application.
- E. Apply directly from sealer container onto prepared surfaces, undiluted.
- F. Application equipment: Brush or low pressure sprayer.
- G. Apply oil and water repellent with a uniform saturation at a rate recommended by the manufacturer.
- H. Apply in one coat.

3.05 COATING APPLICATION

- A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.
- B. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.
- C. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

END OF SECTION

**SECTION 06 10 00
ROUGH CARPENTRY**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Structural dimension lumber framing.
- B. Non-structural dimension lumber framing.
- C. Rough opening framing for doors, windows, and roof openings.
- D. Sheathing.
- E. Roofing nailers.
- F. Preservative treated wood materials.
- G. Miscellaneous framing and sheathing.
- H. Communications and electrical room mounting boards.
- I. Concealed wood blocking, nailers, and supports.
- J. Miscellaneous wood nailers, furring, and grounds.
- K. Roof sheathing with factory applied roofing underlayment.

1.02 RELATED REQUIREMENTS

- A. Section 03 3000 - Cast-in-Place Concrete: Setting anchors in concrete.
- B. Section 06 1753 - Shop-Fabricated Wood Trusses.
- C. Section 07 27 26 - Fluid Applied Membrane Air Barrier: Installation of fluid applied waterproof air barrier membrane over wood framed walls.
- D. Section 07 6200 - Sheet Metal Flashing and Trim: Sill flashings.
- E. Section 09 2116 - Gypsum Board Assemblies: Gypsum-based sheathing.

1.03 REFERENCE STANDARDS

- A. AWC (WFCM) - Wood Frame Construction Manual for One- and Two-Family Dwellings; 2015.
- B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2017.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2017.
- E. AWWA U1 - Use Category System: User Specification for Treated Wood; 2017.
- F. ICC (IBC) - International Building Code; 2018.
- G. PS 1 - Structural Plywood; 2009.
- H. PS 2 - Performance Standard for Wood-Based Structural-Use Panels; 2010.
- I. PS 20 - American Softwood Lumber Standard; 2015.
- J. SPIB (GR) - Grading Rules; 2014.
- K. WWPA G-5 - Western Lumber Grading Rules; 2017.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide technical data on wood preservative materials and application instructions.

- C. Structural Composite Lumber: Submit manufacturer's published structural data including span tables, marked to indicate which sizes and grades are being used; if structural composite lumber is being substituted for dimension lumber or timbers, submit grading agency structural tables marked for comparison.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a one year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
 - 1. Species: Spruce-Pine-Fir #1/#2, (Fb=875psi, E=1400ksi, Fcll=1150psi, Fcperp=425psi, Fv=135psi) unless otherwise indicated.
 - 2. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
 - 3. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
- B. Lumber fabricated from old growth timber is not permitted.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Stud Framing (2 by 2 through 2 by 6 (50 by 50 mm through 50 by 150 mm)):
 - 1. Species: Spruce-Pine-Fir.
 - 2. Grade: No. 1 and No. 2.
 - 3. Machine stress-rated (MSR) as follows:
 - a. Fb-single (minimum extreme fiber stress in bending): 1650 psi
 - b. E (minimum modulus of elasticity): 1,500,000 psi
- D. Joist, Rafter, and Small Beam Framing (2 by 6 through 4 by 16 (50 by 150 mm through 100 by 400 mm)):
 - 1. Machine stress-rated (MSR) as follows:
 - a. Fb-single (minimum extreme fiber stress in bending): 1650 psi .
 - b. E (minimum modulus of elasticity): 1,500,000 psi.
 - 2. Species: Spruce-Pine-Fir (South).
 - 3. Grade: No. 1 and No. 2
- E. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
 - 1. Lumber: S4S, No. 2 or Standard Grade.
 - 2. Boards: Standard or No. 3.

2.03 STRUCTURAL COMPOSITE LUMBER

- A. Structural Composite Lumber: Factory fabricated beams, headers, and columns, of sizes and types indicated on drawings; structural capacity as published by manufacturer.
 - 1. Beams: Use laminated veneer lumber, laminated strand lumber, or parallel strand lumber with manufacturer's published E (modulus of elasticity): 1,900,000 psi minimum.
 - a. Refer to Structural Notes on Sheet 'S001' for additional material requirements.

2. Manufacturers:
 - a. Louisiana Pacific: www.lpcorp.com.
 - b. Weyerhaeuser Company: www.weyerhaeuser.com/#sle.
 - c. Georgia-Pacific Corp.: www.gp.com.
 - d. Substitutions: See Section 01 6000 - Product Requirements.

2.04 CONSTRUCTION PANELS

- A. Roof Sheathing: APA PRP-108, Structural I Rated Sheathing, Exterior Exposure Class, and as follows:
 1. Span Rating: 32/16.
 2. Thickness: 5/8 inch, nominal.
- B. Wall Sheathing: APA PRP-108, Structural I Rated Sheathing, Exterior Exposure Class, and as follows:
 1. Span Rating: 32/16.
 2. Thickness: 5/8 inch, nominal.
- C. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

2.05 ACCESSORIES

- A. Fasteners and Anchors:
 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
- B. Joist Hangers: Hot dipped galvanized steel, sized to suit framing conditions.
 1. For contact with preservative treated wood in exposed locations, provide minimum G185 (Z550) galvanizing complying with ASTM A653/A653M.
- C. Sill Gasket on Top of Foundation Wall: 1/4 inch (6 mm) thick, plate width, closed cell plastic foam from continuous rolls.

2.06 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWWA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
 1. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWWA standards.
- B. Preservative Treatment:
 1. Manufacturers:
 - a. Lonza Group: www.wolmanizedwood.com/#sle.
 - b. Koppers Performance Chemicals, Inc: www.koppersperformancechemicals.com/#sle.
 - c. Viance, LLC; Preserve ACQ: www.treatedwood.com/#sle.
 - d. Substitutions: See Section 01 6000 - Product Requirements.
 2. Preservative Pressure Treatment of Lumber Above Grade: AWWA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
 - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
 - b. Treat lumber in contact with masonry or concrete.
 - c. Treat lumber less than 18 inches (450 mm) above grade.
 - d. Treat lumber in other locations as indicated.
 3. Preservative Pressure Treatment of Lumber in Contact with Soil: AWWA U1, Use Category UC4A, Commodity Specification A using waterborne preservative.
 - a. Preservative for Field Application to Cut Surfaces: As recommended by manufacturer of factory treatment chemicals for brush-application in the field.

- b. Restrictions: Do not use lumber or plywood treated with chromated copper arsenate (CCA) in exposed exterior applications subject to leaching.

PART 3 EXECUTION

3.01 PREPARATION

- A. Install sill gasket under sill plate of framed walls bearing on foundations; puncture gasket cleanly to fit tightly around protruding anchor bolts.
- B. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 FRAMING INSTALLATION

- A. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength or result in unacceptable appearance of exposed members.
- B. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- C. Install structural members full length without splices unless otherwise specifically detailed.
- D. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated, but not less than required by applicable codes and AWC (WFCM) Wood Frame Construction Manual.
- E. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists; use metal joist hangers unless otherwise detailed.
- F. Frame wall openings with two or more studs at each jamb; support headers on cripple studs.

3.04 BLOCKING, NAILERS, AND SUPPORTS

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.
- C. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- D. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- E. Provide the following specific non-structural framing and blocking:
 - 1. Cabinets and shelf supports.
 - 2. Wall brackets.
 - 3. TV wall mounting.
 - 4. Grab bars.
 - 5. Towel and bath accessories.
 - 6. Wall-mounted door stops.
 - 7. Displays and tack boards.
 - 8. Wall paneling and trim.

9. Joints of rigid wall coverings that occur between studs.

3.05 ROOF-RELATED CARPENTRY

- A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.
- B. Provide wood curb at all roof openings except where prefabricated curbs are specified and where specifically indicated otherwise. Form corners by alternating lapping side members.

3.06 INSTALLATION OF CONSTRUCTION PANELS

- A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.
 1. At long edges use sheathing clips where joints occur between roof framing members.
 2. Nail panels to framing; staples are not permitted.
- B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails.
 1. Use plywood or other acceptable structural panels at building corners, for not less than 96 inches (2440 mm), measured horizontally.
- C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches (610 mm) on center on all edges and into studs in field of board.
 1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.
 2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
 3. Install adjacent boards without gaps.

3.07 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment compatible with factory applied treatment at site-sawn cuts, complying with manufacturer's instructions.
- B. Allow preservative to dry prior to erecting members.

3.08 TOLERANCES

- A. Framing Members: 1/4 inch (6 mm) from true position, maximum.
- B. Variation from Plane (Other than Floors): 1/4 inch in 10 feet (2 mm/m) maximum, and 1/4 inch in 30 feet (7 mm in 10 m) maximum.

3.09 CLEANING

- A. Waste Disposal: Comply with the requirements of Section 01 7419 - Construction Waste Management and Disposal.
 1. Comply with applicable regulations.
 2. Do not burn scrap on project site.
 3. Do not burn scraps that have been pressure treated.
 4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.
- B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

**SECTION 06 64 00
PLASTIC PANELING**

SECTION 066400 - PLASTIC PANELING

PART 1 GENERAL

2.01 REFERENCE STANDARDS

- A. ANSI A208.1 - American National Standard for Particleboard; 2022.
- B. ASTM C1178/C1178M - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel; 2024.
- C. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2024.
- D. ASTM D5319 - Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels; 2022.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026.
- F. FM 4880 - Examination Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials; 2022.
- G. PS 1 - Structural Plywood; 2023.
- H. PS 2 - Performance Standard for Wood Structural Panels; 2019.

2.02 SUMMARY

- A. Section Includes:
 - 1. Plastic sheet wall paneling.
- B. Related Requirements:
 - 1. Section 061000 "Rough Carpentry" for wood furring for installing plastic paneling.

2.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - 1. Product Certificates: For regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project and cost for each regional material.
 - 2. Product Certificates: For indigenous materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project, means of transportation, and cost for each indigenous material.
 - 3. Product Certificates: For regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include distance to Project, means of transportation, and cost for each regional material.
 - 4. Product Data: For adhesives, indicating VOC content.
 - 5. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 - 6. Product Data: For sealants, indicating VOC content.
 - 7. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.
 - 8. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.
 - 9. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.
 - 10. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.
 - 11. Laboratory Test Reports: For wall materials, indicating compliance with requirements for low-emitting materials.

- C. Samples: For plastic paneling and trim accessories, in manufacturer's standard sizes.

2.04 QUALITY ASSURANCE

- A. Installer Qualifications: Experience completing a minimum five projects of similar size, type, and complexity. Workers employed on this Project competent in techniques required by manufacturer for installation indicated.
- B. Testing Agency: Acceptable to authorities having jurisdiction and FM Approvals.
- C. Surface-Burning Characteristics: Determined by testing identical products in accordance with ASTM E84 by a testing agency acceptable to authorities having jurisdiction.
- D. FM 4880 approved.
- E. Meets USDA/FSIS requirements.
- F. UL 2818 GREENGUARD GOLD certified.
- G. Hazard Analysis Critical Control Point (HACCP) Certified: GLASBORD panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP-based Food Safety Program.

2.05 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install plastic paneling until spaces are enclosed and weathertight and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

2.06 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace defective panels and components that fail in materials or workmanship under normal conditions of use within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Exposed fibers.
 - b. Rust.
 - c. Rot.
 - d. Corrosion.
 - e. Structural surface cracks.
 - f. Painting or refinishing required with normal pigmentation and UV degradation excepted.
 - 2. Warranty Period - Glass-Fiber-Reinforced Plastic Paneling: Three years from date of Substantial Completion.

PART 2 PRODUCTS

3.01 MANUFACTURERS

- A. Source Limitations: Obtain plastic paneling and trim accessories from single manufacturer.

3.02 PLASTIC SHEET PANELING

- A. Glass-Fiber-Reinforced Plastic Paneling: Gelcoat-finished, glass-fiber-reinforced plastic panels complying with ASTM D5319.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Crane Composites, Inc.; GLASBORD Series or comparable product by one of the following:
 - a. Glasteel.
 - b. Marlite.
 - c. Newcourt, Inc.
 - d. Nudo Products, Inc.
 - e. Parkland Plastics, Inc.

2. Surface-Burning Characteristics: As follows when tested by a qualified testing agency in accordance with ASTM E84. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
3. Nominal Thickness: Not less than 0.037 inch.
4. Wall Panel Size: 4 by 8 feet.
5. Surface Finish: Embossed pebble texture.
6. Scratch Resistance, ASTM D2583, Barcol Hardness: 30
7. Impact Strength, ASTM D5420: 3.3 inch -lb (0.18 J) ???Insert value???, showing no visible damage on finish side.
8. Color: As selected by Architect from manufacturer's full range.

3.03 ACCESSORIES

- A. Trim Accessories: Manufacturer's standard extruded polypropylene designed to retain and cover edges of panels. Provide division bars, inside corners, outside corners, and caps as needed to conceal edges.
 1. Color: Match panels.
- B. Moldings: Polished aluminum.
- C. Exposed Fasteners: Nylon drive rivets recommended by panel manufacturer.
- D. Concealed Mounting Splines: Continuous, H-shaped aluminum extrusions designed to fit into grooves routed in edges of factory-laminated panels and to be fastened to substrate.
- E. Adhesive: As recommended by plastic paneling manufacturer.
 1. Adhesives will have a VOC content of 50 ???Insert value??? g/L or less.
- F. Sealant: Mildew-resistant, single-component, neutral-curing silicone sealant recommended by plastic paneling manufacturer and complying with requirements in Section 079200 "Joint Sealants."
 1. Sealant will have a VOC content of 250 g/L or less.
- G. Color Caulk: Color Sil by Color Rite, 100 percent silicone-based colored caulk, available in sanded and linen/satin finish.
 1. Color: As selected by Architect from manufacturer's full product range.

PART 3 EXECUTION

4.01 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 1. Corners: Plumb and straight.
 2. Surfaces: Smooth, sound, and uniform.
 3. Nails or Screw Fasteners: Countersunk.
 4. Joints and Cracks: Filled flush and smooth with adjoining surfaces.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

4.02 PREPARATION

- A. Remove wallpaper, vinyl wall covering, loose or soluble paint, and other materials that might interfere with adhesive bond.
- B. Prepare substrate by sanding high spots and filling low spots as needed to provide flat, even surface for panel installation.
- C. Clean substrates of substances that could impair adhesive bond, including oil, grease, dirt, and dust.
- D. Ensure that all HVAC, electrical, plumbing, and similar work above the ceiling level has been completed.

- E. Condition panels by unpacking and placing in installation space before installation in accordance with manufacturer's written recommendations.
- F. Lay out paneling before installing. Locate panel joints to provide equal panels at ends of walls not less than half the width of full panels.
 - 1. Mark plumb lines on substrate at trim accessory locations for accurate installation.
 - 2. Locate trim accessories to allow clearance at panel edges in accordance with manufacturer's written instructions.

4.03 INSTALLATION

- A. Install plastic paneling in accordance with manufacturer's written instructions.
 - 1. Do all cutting with carbide-tipped saw blades or drill bits, or cut with snips.
 - 2. Install panels plumb, level, square, flat, and in proper alignment.
 - 3. Install panels to be water resistant and washable.
 - 4. Install panels with manufacturer's recommended gap for panel field and corner joints.
- B. Install panels in a full spread of adhesive.
- C. Install trim accessories with adhesive and nails or staples. Do not fasten through panels.
- D. Fill grooves in trim accessories with sealant before installing panels, and bed inside corner trim in a bead of sealant.
- E. Maintain uniform space between panels and wall fixtures. Fill space with sealant.
- F. Maintain uniform space between adjacent panels and between panels and floors, ceilings, and fixtures. Fill space with sealant.
- G. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION

**SECTION 07 21 00
THERMAL INSULATION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Board insulation at perimeter foundation wall and underside of floor slabs.
- B. Batt insulation in exterior wall construction.
- C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete:
- B. Section 06 1000 - Rough Carpentry: Supporting construction for batt insulation.
- C. Section 07 2500 - Weather Barriers: Separate air barrier and vapor retarder materials.
- D. Section 09 2116 - Gypsum Board Assemblies: Acoustic insulation inside walls and partitions.

1.03 REFERENCE STANDARDS

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2018.
- B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2017.
- D. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2016a.
- E. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials; National Fire Protection Association; 2006.
- F. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
- C. Manufacturer's Installation Instructions: Include information on special environmental conditions required for installation and installation techniques.

1.05 FIELD CONDITIONS

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 APPLICATIONS

- A. Insulation Under Concrete Slabs: Extruded polystyrene (XPS) board.
- B. Insulation at Perimeter of Foundation: Extruded polystyrene (XPS) board.
- C. Insulation in Metal Framed Walls: Batt insulation with integral vapor retarder.

2.02 FOAM BOARD INSULATION MATERIALS

- A. Extruded Polystyrene Board Insulation: Extruded polystyrene board; ASTM C578; with natural skin surfaces, and the following characteristics:
 - 1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
 - 2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.

3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
4. Board Size: 48 x 96 inch and 24 x 96 inch
5. Board Thickness: See drawings.
6. Board Edges: Square.
7. Water Absorption, Maximum: 0.3 percent, by volume.
8. Water Vapor Permeance: 1.5 perm, maximum, ASTM E96
9. Compressive Strength: 25 psi, ASTM D1621
10. Surface Burning Characteristics: Flame spread/Smoke developed index of 5/165, when tested in accordance with ASTM E 84.
11. Manufacturers:
 - a. Dow Chemical Company; STYROFOAM Brand Square Edge Insulation:
www.dow.com/sle.
 - b. Owens Corning Corporation; FOAMULAR Extruded Polystyrene (XPS) Insulation:
www.ocbuildingspec.com/#sle.
 - c. DiveriFoam Products
12. Substitutions: See Section 01 6000 - Product Requirements.

2.03 BATT INSULATION MATERIALS

- A. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
 1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
 2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
 3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
 4. Formaldehyde Content: Zero.
 5. Thermal Resistance: See Drawings
 6. Facing: Unfaced.
 7. Manufacturers:
 - a. CertainTeed Corporation: www.certainteed.com/#sle.
 - b. Johns Manville: www.jm.com/#sle.
 - c. Owens Corning Corp: www.owenscorning.com.
 - d. Knauf Insulation; www.knaufinsulation.com
 8. Substitutions: See Section 01 6000 - Product Requirements.

2.04 ACCESSORIES

- A. Sheet Vapor Retarder: Specified in Section 07 2500.
- B. Staples: Steel wire; electroplated or galvanized; type and size to suit application.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of irregularities or materials or substances that may impede adhesive bond.

3.02 BOARD INSTALLATION AT FOUNDATION PERIMETER

- A. Install boards vertically on foundation perimeter.
 1. Install in running bond pattern.
 2. Butt edges and ends tightly to adjacent boards and to protrusions.
- B. Extend boards over expansion joints, unbonded to foundation on one side of joint.
- C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.03 BOARD INSTALLATION UNDER CONCRETE SLABS

- A. Place insulation under slabs on grade after base for slab has been compacted.

- B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.
- C. Prevent insulation from being displaced or damaged while placing vapor retarder and placing slab.

3.04 BATT INSTALLATION

- A. Install insulation and vapor retarder in accordance with manufacturer's instructions.
- B. Install in exterior wall spaces without gaps or voids. Do not compress insulation.
- C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.
- E. Staple or nail facing flanges in place at maximum 6 inches (150 mm) on center.

3.05 PROTECTION

- A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

**SECTION 07 21 26
BLOWN INSULATION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Ceiling and Attic: Blown insulation pneumatically placed into joist spaces.

1.02 REFERENCE STANDARDS

- A. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. ASTM C739 - Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation; 2025.
- C. ASTM C764 - Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation; 2025.
- D. ASTM C1015 - Standard Practice for Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation; 2017 (Reapproved 2025).

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and limitations.
- C. Manufacturer's Installation Instructions: Indicate procedure for preparation and installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Blown Insulation:
 - 1. CertainTeed Corporation; InsulSafe SP Fiberglass Blowing Insulation: www.certainteed.com/#sle.
 - 2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MATERIALS

- A. Applications: Provide blown insulation in attic and ceiling as indicated on drawings.
- B. Blown Insulation: ASTM C764, Mineral Fiber Loose-Fill Thermal Insulation Type 1 – Pneumatic application.
 - 1. Critical Radiant Flux: ASTM E970 > 0.12 in/cm²
 - 2. Combustion Characteristics: ASTM E136 – Noncombustible
 - 3. Water Vapor Sorption: ASTM C1104 < 5% by weight
 - 4. Odor Emission: ASTM C1304 / pass
 - 5. Corrosiveness: ASTM C764
 - 6. Fungi Resistance: ASTM C1338 / pass
 - 7. Fire Hazard Classification: UL 723, ASTM E84
 - a. Max. Flame Spread Index; 5
 - b. Max. Smoke Dev. Index; 5
 - 8. Thermal Resistance: R-44 minimum, installed thickness of 16-1/2 inches.

2.03 ACCESSORIES

- A. Roof Ventilation Baffles: Prefabricated ventilation channels for placement under roof sheathing with baffles to prevent wind-washing.
 - 1. Material: Polyvinyl chloride (PVC).
 - 2. Roof Joist/Truss Spacing: 24 inch on center, nominal.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate and adjacent materials are dry and ready to receive insulation.

- B. Verify that light fixtures have thermal cut-out device to restrict over-heating in soffit or ceiling spaces.
- C. Verify spaces are unobstructed to allow for proper placement of insulation.

3.02 INSTALLATION

- A. Install insulation and ventilation baffle in accordance with ASTM C1015 and manufacturer's instructions.
- B. Place insulation pneumatically to completely fill joist and rafter spaces.
- C. Place insulation against baffles, and do not impede natural attic ventilation to soffit.
- D. Completely fill intended spaces leaving no gaps or voids.

3.03 CLEANING

- A. Remove loose insulation residue.

END OF SECTION

**SECTION 07 25 00
WEATHER BARRIERS**

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016 (Reapproved 2021).
- B. ASTM D751 - Standard Test Methods for Coated Fabrics; 2019.
- C. ASTM D903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds; 1998 (Reapproved 2025).
- D. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2025.

PART 2 PRODUCTS

2.01 WEATHER BARRIER

- A. Commercial Building Wrap: ASTM E2357 passed, ABAA (Air Barrier Association of America) evaluated air barrier assembly, and assembly water resistance per ASTM E331; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested in accordance with ASTM E84; UV stabilized for nine-month exposure; and acceptable to authorities having jurisdiction.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide DuPont de Nemours, Inc.; Tyvek CommercialWrap or comparable product.
 - 2. System Description, Single-Layer Weather Barrier: Single-layer weather barrier, including flashing and sealing of penetrations and seams.
 - 3. Drainability:
 - a. 90 percent or greater when tested in accordance with ASTM E2273.
 - 4. Air Permeance, Product: Not more than 0.001/cfm/sq. ft at 1.57 lbf/sf when tested in accordance with ASTM E2178.
- B. Water Penetration Resistance, Product: Hydrostatic head resistance greater than 22 inches (55 cm) in accordance with AATCC 127.
- C. Water Penetration Resistance, Assembly: Assembly wall specimen described in ASTM E2357 to water resistance in accordance with ASTM E331 to 2.86 lbf/sf.
- D. Water-Vapor Permeance: Not less than 23 perms per ASTM E96/E96M, Desiccant Method.
- E. Allowable UV Exposure Time: Not less than 9 months (270 days) when tested in accordance with ASTM G155 (Accelerated Weathering).
- F. ANSI B18.6.4- 99, Thread Forming and Thread Cutting Screws and Metallic Drive Screws.

2.02 ACCESSORIES

- A. Seal and Perimeter Tapes: As recommended by water-resistive barrier manufacturer.
- B. Flashings and Sealants: As recommended by water-resistive barrier manufacturer for application.
- C. Sealant for Cracks and Joints In Substrates: Resilient elastomeric joint sealant compatible with substrates and weather barrier materials.
 - 1. Application: Apply at 30 to 40 mil, 0.030 to 0.040 inch nominal thickness.
 - 2. Color: Green.
 - 3. Elongation: 1,300 percent, measured in accordance with ASTM D412.
 - 4. Peel Adhesion: 28 lb/inch, minimum, when tested in accordance with ASTM D903.
 - 5. Hydrostatic Head Pressure: Resist head pressure of 57 feet, maximum, when tested in accordance with ASTM D751.
- D. Flexible Flashing: Self-adhering sheet flashing complying with ASTM D1970/D1970M; waive slip resistance requirement if not installed on roof.

1. Width: 6 inches.
2. Ultraviolet (UV) and Weathering Resistance: Approved by manufacturer for up to 30 days of weather exposure.
3. Products:
 - a. DuPont de Nemours, Inc; VersaFlange: www.dupont.com/building/#sle.
 - b. Henry Company; FortiFlash: www.henry.com/#sle.
 - c. Henry Company; FortiFlex Butyl: www.henry.com/#sle.
 - d. Henry Company; FortiFlash Butyl: www.henry.com/#sle.
 - e. National Shelter Products, Inc; DRYline ATX Self-Adhering Flashing: www.nationalshelter.com/#sle.
 - f. W. R. Meadows, Inc; Air-Shield Butyl Flashing: www.wrmeadows.com/#sle.
 - g. Substitutions: See Section 01 60 00 - Product Requirements.
- E. Flashing Tape: Special reinforced film with high-performance adhesive.
 1. Application: Window and door opening flashing tape.
 2. Width: As required for application.

2.03 FASTENERS

- A. Fasteners for Attaching Water-Resistive Barriers to Substrates: As recommended by barrier manufacturer for application.
- B. Air- and Moisture-Sealing Insulation Fasteners: Preassembled fastener units consisting of sealing washer, screw, and gasketing tube.
- C. Self-Sealing Washers: Solid plastic, 2 inch diameter washers; seals building-wrap air barriers against air penetration.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and conditions comply with requirements of this section.

3.02 PREPARATION

- A. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
- B. Clean and prime substrate surfaces to receive adhesives and sealants in accordance with manufacturer's installation instructions.

3.03 INSTALLATION

- A. Install materials in accordance with manufacturer's installation instructions.
- B. Install continuous water-resistive barriers where indicated on drawings, with sheets lapped to shed water.
- C. Apply sealants within recommended temperature range in accordance with manufacturer's installation instructions.
- D. Mechanically Fastened Sheets:
 1. Install sheets in shingle fashion to shed water; align horizontally.
 2. Overlap seams as recommended by manufacturer, 6 inches, minimum.
 3. Overlap at outside and inside corners as recommended by manufacturer, 12 inches, minimum.
 4. Attach to framed construction with fasteners extending through sheathing into framing, and space fasteners at 12 to 18 inches on center along each framing member supporting sheathing.
 5. Attach to masonry construction using mechanical fasteners spaced at 12 to 18 inches vertically on center, and at 24 inches, maximum, horizontally on center.
 6. For applications indicated to be airtight, seal seams, laps, penetrations, tears, and cuts with self-adhesive tape; use only large-headed, gasketed fasteners as recommended by manufacturer.

7. Where stud framing rests on concrete or masonry substrate, extend lower edge of barrier sheets at least 4 inches below bottom of framing and seal to substrate with sealant or approved mounting tape.
8. Install water-resistive barrier over jamb flashings.
9. Install head flashings under water-resistive barrier.
10. At framed openings with frames having nailing flanges, extend sheet into opening and over flanges; at head of opening, seal sheet over flange and flashing.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements for additional requirements.
- B. Owner's Inspection and Testing: Cooperate with Owner's testing agency.
 1. Allow access to work areas and staging.
 2. Notify Owner's testing agency in writing of schedule for work of this section to allow sufficient time for testing and inspection.
 3. Do not cover work of this section until testing and inspection is accepted.

3.05 PROTECTION

- A. Do not leave materials exposed to weather longer than recommended by manufacturer.

END OF SECTION

**SECTION 07 46 46
FIBER-CEMENT SIDING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wood-fiber cement siding.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Siding substrate.
- B. Section 06 10 00 - Rough Carpentry: Water-resistive barrier under siding.
- C. Section 07 25 00 - Weather Barriers: Weather barrier under siding.
- D. Section 07 90 05 - Joint Sealers.
- E. Section 09 90 00 - Painting and Coating: Field painting.

1.03 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- C. ASTM C1186 - Standard Specification for Flat Fiber-Cement Sheets; 2022, with Editorial Revision (2023).

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
- C. Test Report: Applicable model code authority evaluation report (e.g. ICC-ES).
- D. Maintenance Instructions: Periodic inspection recommendations and maintenance procedures.
- E. Warranty: Submit copy of manufacturer's warranty, made out in Owner's name, showing that it has been registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing work of the type specified in this section with minimum 5 years of experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products under waterproof cover and elevated above grade, on a flat surface.

PART 2 PRODUCTS

2.01 SIDING

- A. Lap Siding: Individual horizontal boards made of cement and cellulose fiber formed under high pressure with integral surface texture, complying with ASTM C1186 Type A Grade II; with machined edges, for nail attachment.
 - 1. Style: Standard lap style.
 - 2. Texture: Smooth.
 - 3. Length: 12 ft, nominal.
 - 4. Width (Height): 6-1/4 inches. (6 inch exposure)
 - 5. Thickness: 5/16 inch, nominal.
 - 6. Finish: Factory applied primer.
 - 7. Warranty: 30 year limited; transferable.
 - 8. Lap Siding Manufacturers:
 - a. CertainTeed Corporation : www.certainteed.com.
 - b. James Hardie Building Products, Inc : www.jameshardie.com/#sle.

- c. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ACCESSORIES

- A. Trim: Same material and texture as siding.
- B. Fasteners: Galvanized or corrosion resistant; length as required to penetrate minimum 1-1/4 inch.
- C. Joint Sealer: As specified in Section 07 90 05.

PART 3 EXECUTION

3.01 PREPARATION

- A. Examine substrate and clean and repair as required to eliminate conditions that would be detrimental to proper installation.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Install sheet metal flashing:
 - 1. Above horizontal trim in field of siding.
 - 2. Above penetrations in siding.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions and recommendations.
 - 1. Read warranty and comply with all terms necessary to maintain warranty coverage.
 - 2. Install in accordance with conditions stated in model code evaluation report applicable to location of project.
 - 3. Use trim details indicated on drawings.
 - 4. Touch up all field cut edges before installing.
 - 5. Pre-drill nail holes if necessary to prevent breakage.
- B. Joints in Vertical Siding: Install Z-flashing in horizontal joints between successive courses of vertical siding.
- C. Do not install siding less than 4 inches from surface of ground nor closer than 2 inches to roofs, patios, porches, and other surfaces where water may collect.
- D. After installation, seal all joints except lap joints of lap siding. Seal around all penetrations. Paint all exposed cut edges.

3.04 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

SECTION 07 62 00
SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fabricated sheet metal items, including flashings, counterflashings, gutters, and downspouts.
- B. Sealants for joints within sheet metal fabrications.
- C. Precast concrete splash pads.

1.02 RELATED REQUIREMENTS

- A. Section 04 2000 - Unit Masonry: Metal flashings embedded in masonry.
- B. Section 06 1000 - Rough Carpentry: Wood nailers for sheet metal work.
- C. Section 07 5300 - Elastomeric Membrane Roofing: Flashings associated with membrane roofing.
- D. Section 07 9200 - Joint Sealants: Sealing non-lap joints between sheet metal fabrications and adjacent construction.

1.03 REFERENCE STANDARDS

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).
- B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2017a.
- C. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2017a.
- D. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2017a.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2017.
- F. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- G. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric); 2014.
- H. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- I. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2017.
- J. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007, with Editorial Revision (2012).
- K. CDA A4050 - Copper in Architecture - Handbook; current edition.
- L. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
- C. Samples: Submit two samples 2 by 2 inch in size illustrating metal finish color.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

- B. Fabricator and Installer Qualifications: Company specializing in sheet metal work with 3 years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Sheet Metal Flashing and Trim Manufacturers:
 - 1. Rollex. www.rollex.com
 - 2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 SHEET MATERIALS

- A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24 gage, (0.0239) inch (0.61 mm) thick base metal, shop pre-coated with PVDF coating.
 - 1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
 - 2. Color: As selected by Architect from manufacturer's standard colors.
- B. Pre-Finished Aluminum: ASTM B209 (ASTM B209M); 20 gage, (0.032 inch) (0.81 mm) thick; plain finish shop pre-coated with fluoropolymer coating.
 - 1. Fluoropolymer Coating: High Performance Organic Finish, AAMA 2604; multiple coat, thermally cured fluoropolymer finish system.
 - 2. Color: As selected by Architect from manufacturer's standard colors.

2.03 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Form pieces in longest possible lengths.
- C. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- D. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- E. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.
- F. Fabricate vertical faces with bottom edge formed outward 1/4 inch (6 mm) and hemmed to form drip.

2.04 ACCESSORIES

- A. Fasteners: Aluminum, with soft neoprene washers.
- B. Underlayment: ASTM D226/D226M, organic roofing felt, Type I (No. 15).
- C. Primer: Zinc chromate type.
- D. Concealed Sealants: Non-curing butyl sealant.
- E. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.
- F. Plastic Cement: ASTM D4586/D4586M, Type I.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.02 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil (0.4 mm).

3.03 INSTALLATION

- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- B. Apply plastic cement compound between metal flashings and felt flashings.
- C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.

END OF SECTION

**SECTION 07 92 00
JOINT SEALANTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Nonsag gunnable joint sealants.
- B. Self-leveling pourable joint sealants.
- C. Joint backings and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 07 26 26 - Fluid Applied Membrane Air Barrier
- B. Section 08 7100 - Door Hardware: Setting exterior door thresholds in sealant.
- C. Section 08 8000 - Glazing: Glazing sealants and accessories.
- D. Section 09 2116 - Gypsum Board Assemblies: Sealing acoustical and sound-rated walls and ceilings.

1.03 REFERENCE STANDARDS

- A. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2012 (Reapproved 2017).
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
- C. ASTM C1330 - Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants; 2002 (Reapproved 2013).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 4. Substrates the product should not be used on.
 - 5. Substrates for which use of primer is required.
 - 6. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
 - 7. Sample product warranty.
- C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
- D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.

- C. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping.
1. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
 2. Bostik Inc: www.bostik-us.com.
 3. Dow Corning Corporation: www.dowcorning.com/construction/#sle.
 4. Hilti, Inc: www.us.hilti.com/#sle.
 5. Pecora Corporation: www.pecora.com.
 6. Sika Corporation: www.usa-sika.com/#sle.
 7. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 8. W.R. Meadows, Inc: www.wrmeadows.com.
 9. Substitutions: See Section 01 6000 - Product Requirements.
- B. Self-Leveling Sealants: Pourable or self-leveling sealant that has sufficient flow to form a smooth, level surface when applied in a horizontal joint.
1. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
 2. Bostik Inc: www.bostik-us.com.
 3. Dow Corning Corporation: www.dowcorning.com/construction/#sle.
 4. Pecora Corporation: www.pecora.com.
 5. Sika Corporation: www.usa-sika.com/#sle.
 6. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 7. W.R. Meadows, Inc: www.wrmeadows.com.
 8. Substitutions: See Section 01 6000 - Product Requirements.

2.02 JOINT SEALANT APPLICATIONS

- A. Scope:
1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.
 - a. Wall expansion and control joints.
 - b. Joints between door, window, and other frames and adjacent construction.
 - c. Joints between different exposed materials.
 - d. Openings below ledge angles in masonry.
 - e. Other joints indicated below.
 2. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
 - a. Joints between door, window, and other frames and adjacent construction.
 - b. Other joints indicated below.
 3. Do not seal the following types of joints.
 - a. Intentional weepholes in masonry.
 - b. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device.
 - c. Joints where sealant is specified to be provided by manufacturer of product to be sealed.
 - d. Joints where installation of sealant is specified in another section.
 - e. Joints between suspended panel ceilings/grid and walls.

2.03 SEALANTS

- A. General Purpose Exterior Sealant: Polyurethane; ASTM C920, Grade NS, Class 25, Uses M, G, and A; single component.
1. Color: Match adjacent finished surfaces.

2. Applications: Use for:
 - a. Control, expansion, and soft joints in masonry.
 - b. Joints between concrete and other materials.
 - c. Joints between metal frames and other materials.
 - d. Other exterior joints for which no other sealant is indicated.
- B. Exterior Expansion Joint Sealer: ASTM D2628, hollow neoprene (polychloroprene) compression gasket.
 1. Black color.
 2. Size and Shape: As indicated on Drawings.
 3. Applications: Use for:
 - a. Exterior wall expansion joints.
- C. General Purpose Interior Sealant: Acrylic emulsion latex; ASTM C834 , Type OP, Grade NF single component, paintable.
 1. Color: Standard colors matching finished surfaces.
 2. Applications: Use for:
 - a. Interior wall and ceiling control joints.
 - b. Joints between door and window frames and wall surfaces.
 - c. Other interior joints for which no other type of sealant is indicated.
- D. Silicone Sealant: White silicone; ASTM C 920, Uses I, M and A; single component, mildew resistant.
 1. Applications: Use for:
 - a. Joints between plumbing fixtures and floor and wall surfaces.
 - b. Joints between kitchen and bath countertops and wall surfaces.
- E. Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component.
 1. Approved by manufacturer for wide joints up to 1-1/2 inches.
 2. Color: Standard colors matching finished surfaces.
 3. Applications: Use for:
 - a. Expansion joints in floors.
- F. Concrete Paving Joint Sealant: Polyurethane, self-leveling; ASTM C920, Class 25, Uses T, I, M and A; single component.
 1. Color: Gray.
 2. Applications: Use for:
 - a. Joints between paving and building components.
 - b. Joints around structural stoops.
 - c. Joint around pipe bollards.

2.04 ACCESSORIES

- A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
 1. Type for Joints Not Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type O - Open Cell Polyurethane.
 2. Type for Joints Subject to Pedestrian or Vehicular Traffic: ASTM C1330; Type B - Bi-Cellular Polyethylene.
 3. Open Cell: 40 to 50 percent larger in diameter than joint width.
 4. Closed Cell and Bi-Cellular: 25 to 33 percent larger in diameter than joint width.
- B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- C. Masking Tape: Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.

- D. Joint Cleaner: Non-corrosive and non-staining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- E. Primers: Type recommended by sealant manufacturer to suit application; non-staining.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- G. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

END OF SECTION

**SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Non-fire-rated hollow metal doors and frames.
- B. Hollow metal frames for wood doors.
- C. Fire-rated hollow metal doors and frames.
- D. Thermally insulated hollow metal doors with frames.

1.02 RELATED REQUIREMENTS

- A. Section 08 71 00 - Door Hardware.
- B. Section 08 80 00 - Glazing: Glass for doors and borrowed lites.
- C. Section 09 90 00 Painting and Coating

1.03 REFERENCE STANDARDS

- A. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.
- B. ANSI/SDI A250.3 - Test Procedure and Acceptance Criteria for Factory Applied Finish Coatings for Steel Doors and Frames; 2025.
- C. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2024.
- D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2023.
- E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2025.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
- G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026.
- H. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.
- I. ITS (DIR) - Directory of Listed Products; Current Edition.
- J. NAAMM HMMA 840 - Guide Specifications for Receipt, Storage and Installation of Hollow Metal Doors and Frames; 2024.
- K. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014.
- L. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.
- M. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.
- N. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2023.
- O. UL (DIR) - Online Certifications Directory; Current Edition.
- P. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.

- C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.
- D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
- E. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years documented experience.
- B. Maintain at project site copies of reference standards relating to installation of products specified.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
- B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted finish.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Hollow Metal Doors and Frames:
 - 1. Ceco Door, an Assa Abloy Group company: www.assaabloydss.com.
 - 2. Republic Doors: www.republicdoor.com.
 - 3. Steelcraft, an Allegion brand: www.allegion.com/#sle.
 - 4. Steelcraft: www.steelcraft.com.
 - 5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

- A. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.03 HOLLOW METAL DOORS

- A. Exterior Doors: Thermally insulated.
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 2 - Heavy-duty.
 - b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Model 1 - Full Flush.
 - d. Door Face Metal Thickness: 18 gage, 0.042 inch, minimum.
 - 2. Door Core Material: Polyurethane, 1.8 lbs/cu ft minimum density.
 - a. Foam Plastic Insulation: Manufacturer's standard board insulation with maximum flame spread index (FSI) of 75, and maximum smoke developed index (SDI) of 450 in accordance with ASTM E84, and completely enclosed within interior of door.
 - 3. Door Thickness: 1-3/4 inches, nominal.
 - 4. Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness.
 - 5. Weatherstripping: Refer to Section 08 71 00.
- B. Interior Doors, Non-Fire Rated:
 - 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 1 - Standard-duty.
 - b. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Model 1 - Full Flush.

- d. Door Face Metal Thickness: 20 gauge, 0.032 inch, minimum.
2. Door Core Material: Manufacturers standard core material/construction and in compliance with requirements.
3. Door Thickness: 1-3/4 inches, nominal.
- C. Interior Fire-Rated Doors:
 1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
 - a. Level 2 - Heavy-duty.
 - b. Physical Performance Level B 500 000 cycles; in accordance with ANSI/SDI A250.4.
 - c. Model 1 - Full Flush.
 - d. Door Face Metal Thickness: 20 gauge, 0.032 inch, minimum.
 2. Fire Rating: As indicated on Door Schedule, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests").
 - a. Provide units listed and labeled by UL (DIR) or ITS (DIR).
 - b. Attach fire rating label to each fire rated unit.
 3. Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
 4. Door Thickness: 1-3/4 inches, nominal.
 5. Door Face Sheets: Flush.

2.04 HOLLOW METAL FRAMES

- A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.
- B. General:
 1. Comply with the requirements of grade specified for corresponding door.
 2. Finish: Factory primed, for field finishing.
 3. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
- C. Exterior Door Frames: Face welded type.
 1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A40/ZF120 coating.
 2. Frame Metal Thickness: 16 gauge, 0.053 inch, minimum.
 3. Frame Finish: Factory primed and field finished.
 4. Weatherstripping: Separate, see Section 08 71 00.
- D. Interior Door Frames, Non-Fire Rated: Full profile/continuously welded type.
 1. Frame Metal Thickness: 18 gage, 0.042 inch, minimum.
 2. Frame Finish: Factory primed and field finished.
- E. Door Frames, Fire-Rated: Knock-down type.
 1. Fire Rating: Same as door, labeled.
 2. Frame Metal Thickness: 18 gauge, 0.042 inch, minimum.
 3. Frame Finish: Factory primed and field finished.

2.05 FINISHES

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

2.06 ACCESSORIES

- A. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners; prepared for countersink style tamper proof screws.
- B. Mechanical Fasteners for Concealed Metal-to-Metal Connections: Self-drilling, self-tapping, steel with electroplated zinc finish.
- C. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.
- D. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

- E. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

2.07 FINISH MATERIALS

- A. Primer: Rust-inhibiting, complying with ANSI A250.10, door manufacturer's standard.
- B. Bituminous Coating: Asphalt emulsion or other high-build, water-resistant, resilient coating.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 PREPARATION

- A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

3.03 INSTALLATION

- A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction.
- D. Install door hardware as specified in Section 08 71 00.
- E. Coordinate installation of electrical connections to electrical hardware items.
- F. Touch up damaged factory finishes.

3.04 TOLERANCES

- A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.
- B. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.05 ADJUSTING

- A. Adjust for smooth and balanced door movement.

3.06 SCHEDULE

- A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION

**SECTION 08 71 00
DOOR HARDWARE**

PART 1 GENERAL

1.01 REFERENCE STANDARDS

- A. BHMA A156.1 - Standard for Butts and Hinges; 2021.
- B. BHMA A156.2 - Bored and Preassembled Locks and Latches; 2022.
- C. BHMA A156.4 - Door Closers and Pivots; 2024.
- D. BHMA A156.6 - Standard for Architectural Door Trim; 2021.
- E. BHMA A156.8 - Door Controls - Overhead Stops and Holders; 2021.
- F. BHMA A156.13 - Mortise Locks and Latches; 2022.
- G. BHMA A156.16 - Standard for Auxiliary Hardware; 2023.
- H. BHMA A156.18 - Standard for Materials and Finishes; 2020.
- I. BHMA A156.36 - Auxiliary Locks; 2020.
- J. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- K. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- L. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- M. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.
- N. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- O. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2025.
- P. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.
- Q. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- R. UL 294 - Access Control System Units; Current Edition, Including All Revisions.
- S. UL 305 - Standard for Panic Hardware; Current Edition, Including All Revisions.
- T. UL 437 - Standard for Key Locks; Current Edition, Including All Revisions.
- U. UL 1784 - Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives; Current Edition, Including All Revisions.

1.02 RELATED DOCUMENTS

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

1.03 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".

- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC (IBC) International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.04 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

- D. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.05 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.06 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors.

Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.

2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 3. Review sequence of operation narratives for each unique access controlled opening.
 4. Review and finalize construction schedule and verify availability of materials.
 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.08 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.09 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 1. Structural failures including excessive deflection, cracking, or breakage.
 2. Faulty operation of the hardware.
 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.02 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
5. Manufacturers:
 - a. McKinney (MK) - TAT4A Series, 5-knuckle.

2.03 DOOR OPERATING TRIM

- A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 4. Pulls shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 6. Manufacturers:
 - a. Rockwood (RO).

2.04 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Match Facility Standard.
- C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- D. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
 2. Master Keys (per Master Key Level/Group): Five (5).
 3. Construction Keys (where required): Ten (10).
- E. Construction Keying: Provide construction master keyed cylinders.

2.05 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 8200 Series.

2.06 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 10X Line.

2.07 DEADLOCKS AND LATCHES

- A. Mortise Deadlocks, Small Case: ANSI/BHMA A156.36, Grade 1, small case mortise type deadlocks constructed of heavy gauge wrought corrosion resistant steel. Steel or stainless steel bolts with a 1" throw and hardened steel roller pins. Deadlocks to be products of the same source manufacturer and keyway as other specified locksets.
1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 4870 Series.

2.08 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.09 SURFACE DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.

2. Standards: Closers to comply with UL 10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC A117.1.
 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
1. Heavy duty surface mounted door closers shall have a 30-year warranty.
 2. Manufacturers:
 - a. Norton Rixson (NO) - 7500 Series.
 - b. Sargent Manufacturing (SA) - 351 Series.
- C. Door Closers, Surface Mounted (Cam Action): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, high efficiency door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be of the cam and roller design, one piece cast aluminum silicon alloy body with adjustable backcheck and independently controlled valves for closing sweep and latch speed.
1. Manufacturers:
 - a. Norton Rixson (NO) - 2800ST Series.
 - b. Sargent Manufacturing (SA) - 422 Series.

2.10 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
1. Manufacturers:
 - a. Rockwood (RO).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Rockwood (RO).
 - c. Sargent Manufacturing (SA).

2.11 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL 10C.
 - 1. Provide intumescent seals as indicated to meet UL 10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).

2.12 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.03 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.04 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.05 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.06 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.07 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.08 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handing and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

- B. Manufacturer's Abbreviations:

		1. MK - MCKINNEY		
		2. SA - SARGENT		
		3. RO - ROCKWOOD		
		4. RF - RIXSON		
		5. NO - NORTON		
		6. PE - PEMKO		

HARDWARE SET NO. 1.0:

3	HINGE (HEAVY WEIGHT)	T4A3386	US32D	MK
1	CLASSROOM DEADLOCK	4877	US26D	SA
1	PUSH PULL SET	110X73C/73CL	US32D	RO
1	SURFACE CLOSER	2800ST	689	NO
1	KICKPLATE	K1050 10" HIGH X CSK	US32D	RO
1	DOOR STOP	409 / 441H	US32D	RO
1	GASKETING	294AV		PE
1	SWEEP	3151	AL	PE
1	THRESHOLD	PER DETAIL & FIELD CONDITIONS X FHSL	AL	PE

END OF SECTION

**SECTION 09 21 16
GYPSUM BOARD ASSEMBLIES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Performance criteria for gypsum board assemblies.
- B. Acoustic insulation.
- C. Gypsum wallboard.
- D. Glass mat faced gypsum board.
- E. Joint treatment and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 06 1000 - Rough Carpentry: Building framing and sheathing.
- B. Section 06 1000 - Rough Carpentry: Wood blocking product and execution requirements.
- C. Section 07 2100 - Thermal Insulation: Acoustic insulation.
- D. Section 07 2500 - Weather Barriers: Water-resistive barrier over sheathing.
- E. Section 07 9200 - Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.
- F. Section 09 30 00 - Tiling. Finish requirements for tiled surfaces.

1.03 REFERENCE STANDARDS

- A. ASTM C514 - Standard Specification for Nails for the Application of Gypsum Board; 2004 (Reapproved 2014).
- B. ASTM C557 - Standard Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing; 2003 (Reapproved 2017).
- C. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2017.
- D. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2017a.
- E. ASTM C1047 - Standard Specification for Accessories For Gypsum Wallboard and Gypsum Veneer Base; 2014a.
- F. ASTM C1178/C1178M - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel; 2013.
- G. ASTM C1325 - Standard Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units; 2017a.
- H. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2017.
- I. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2016.
- J. GA-216 - Application and Finishing of Gypsum Panel Products; 2016.
- K. GA-600 - Fire Resistance Design Manual; 2015.
- L. UL (FRD) - Fire Resistance Directory; Current Edition.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals.
- C. Product Data: Provide data on gypsum board, glass mat faced gypsum board, accessories, and joint finishing system.

1.05 QUALITY ASSURANCE

- A. Perform in accordance with ASTM C 840. Comply with requirements of GA-600 for fire-rated assemblies.
 - 1. Maintain one copy of standards at project site.
- B. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum 5 years of experience.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for fire rated assemblies as indicated on drawings.

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

- A. Provide completed assemblies complying with ASTM C840 and GA-216.
- B. Fire Rated Assemblies: Provide completed assemblies with the following characteristics:
 - 1. Fire Rated Partitions: UL listed assembly No. U305; one hour rating.
 - 2. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL (FRD).

2.02 GYPSUM BOARD MATERIALS

- A. Manufacturers:
 - 1. American Gypsum Company: www.americangypsum.com.
 - 2. G-P Gypsum Corporation: www.gp.com/gypsum.
 - 3. Lafarge North America Inc: www.lafargenorthamerica.com.
 - 4. National Gypsum Company: www.nationalgypsum.com.
 - 5. Temple-Inland Inc: www.templeinland.com.
 - 6. USG: www.usg.com.
 - 7. Substitutions: See Section 01 6000 - Product Requirements.
- B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
 - 1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
 - 2. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
 - 3. Thickness:
 - a. Vertical Surfaces: 5/8 inch (16 mm).
 - b. Ceilings: 5/8 inch (16 mm).
 - 4. Edges: Tapered.
 - 5. Paper-Faced Products:
 - a. American Gypsum Company; FireBloc Type X Gypsum Wallboard: www.americangypsum.com/#sle.
 - b. CertainTeed Corporation; ProRoc Brand Gypsum Board. Type X.
 - c. Georgia-Pacific Gypsum; ToughRock Fireguard X: www.gpgypsum.com/#sle.
 - d. Lafarge North America Inc; Regular Drywall and Firecheck Type X.
 - e. National Gypsum Company; Gold Bond Brand Gypsum Wallboard. Type X.
 - f. Pacific Coast Building Products, Inc; PABCO Regular Gypsum Wallboard and PABCO Flame Curb. Type X.
 - g. Temple-Inland Building Product by Georgia-Pacific, LLC; Gypsumboard and Gypsum Board Fire Resistant Panels Type X.
 - h. USG Corporation; Sheetrock Brand Gypsum Panels. Type X.
 - i. Substitutions: See Section 01 60 00 - Product Requirements.
 - 6. Mold Resistant Paper Faced Products:
 - a. American Gypsum Company; M-Bloc Type X: www.americangypsum.com/#sle.
 - b. CertainTeed Corporation; ProRoc Brand Moisture & Mold Resistant Gypsum Board. Type X

- c. Georgia-Pacific Gypsum; ToughRock Mold-Guard: www.gpgypsum.com/#sle. Type X.
 - d. Lafarge North America Inc; Mold Defense Drywall. Type X.
 - e. National Gypsum Company; Gold Bond Brand XP Gypsum Board. Type X.
 - f. Pacific Coast Building Products, Inc; PABCO Mold Curb Gypsum Wallboard. Type X.
 - g. Temple-Inland Building Product by Georgia-Pacific, LLC; ComfortGuard Mold Resistant Gypsum Board. Type X.
 - h. USG Corporation; Sheetrock Brand Mold Tough Gypsum Panels. Type X.
 - i. Substitutions: See Section 01 60 00 - Product Requirements.
- C. Backing Board For Wet Areas: One of the following products:
- 1. Application: Surfaces behind tile in wet areas including behind tile at bathroom walls and behind thin-coat plaster at exterior soffits and vestibule ceilings.
 - 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 - 3. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
 - 4. Thickness: 5/8 inch.
 - 5. Edges: Tapered.
 - 6. Products:
 - a. Custom Building Products; WonderBoard: www.custombuildingproducts.com/#sle.
 - b. National Gypsum Company; PermaBase Cement Board: www.nationalgypsum.com/#sle.
 - c. USG Corporation; Durock Brand: www.usg.com/#sle.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- D. Gypsum Wallboard For Wet Areas:
- 1. Application: Surfaces in wet areas, refer to the Room Finish Schedule within the drawings
 - 2. Abuse and Mold Resistance: USG Sheetrock Brand Glass-Mat Moldtough Abuse Resistant Firecode X, when tested in accordance with ASTM C1629.
 - 3. Glass Mat Faced Board: Coated glass mat water-resistant gypsum backing panel as defined in ASTM D32733.
 - a. Standard Type: Thickness 5/8 inch.
 - b. Products:
 - 1) Georgia-Pacific Gypsum; DensShield Tile Backer.
 - 2) National Gypsum Company; Gold Bond eXP Tile Backer.
 - 3) Substitutions: See Section 01 6000 - Product Requirements.

2.03 ACCESSORIES

- A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Refer to Wall types shown in drawings.
- B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
- C. Finishing Accessories: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise.
 - 1. Types: As detailed or required for finished appearance.
 - 2. Special Shapes: In addition to conventional corner bead and control joints, provide U-bead and L-bead at exposed panel edges.
 - 3. Products:
 - a. Phillips Manufacturing Co: www.phillipsmfg.com/#sle.
 - b. Trim-tex, Inc: www.trim-tex.com/#sle.
- D. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
- E. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.

1. Paper Tape: 2 inch (50 mm) wide, creased paper tape for joints and corners, except as otherwise indicated.
 2. Ready-mixed vinyl-based joint compound.
- F. High Build Drywall Surfer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.
- G. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inch (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion resistant.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that project conditions are appropriate for work of this section to commence.

3.02 ACOUSTIC ACCESSORIES INSTALLATION

- A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

3.03 GYPSUM BOARD INSTALLATION

- A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
- B. Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
1. Exception: Tapered edges to receive joint treatment at right angles to framing.
- C. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
- D. Exposed Gypsum Board in Interior Wet Areas: Seal joints, cut edges, and holes with water-resistant sealant.
- E. Installation on Wood Framing: For rated assemblies, comply with requirements of listing authority. For non-rated assemblies, install as follows:
1. Single-Layer Applications: Screw attachment.
- F. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board with sealant.

3.04 INSTALLATION OF TRIM AND ACCESSORIES

- A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
1. Not more than 30 feet (10 meters) apart on walls and ceilings over 50 feet (16 meters) long.
 2. At exterior soffits, not more than 30 feet (10 meters) apart in both directions.
- B. Corner Beads: Install at external corners, using longest practical lengths.
- C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.

3.05 JOINT TREATMENT

- A. Paper Faced Gypsum Board: Use paper joint tape, bedded with ready-mixed vinyl-based joint compound and finished with ready-mixed vinyl-based joint compound.
- B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
 2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
 3. Level 3: Walls to receive textured wall finish.
 4. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.

5. Level 1: Wall areas above finished ceilings, whether or not accessible in the completed construction.
- C. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 1. Feather coats of joint compound so that camber is maximum 1/32 inch.
 2. Taping, filling, and sanding are not required at surfaces behind adhesive applied ceramic tile and fixed cabinetry. Prime for mastic only.
 3. Taping, filling, and sanding are not required at base layer of double-layer applications.
- D. Joint finishing for tile backing panels:
 1. Gypsum board joint compound shall not be allowed behind wall tile areas. Leave joints unfinished, free of gypsum joint compound.
 2. Corner beads shall not be used where tile meets at outside corners. Tear away corners to be used where tile meets gypsum board at outside corners with no gypsum compound on the side to receive tile.
- E. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.
- F. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

3.06 TOLERANCES

- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

END OF SECTION

**SECTION 09 90 00
PAINTING AND COATING
(ALL PAINTING BY OWNER)**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
 - 1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
 - 2. Exposed surfaces of steel lintels and ledge angles.
 - 3. Mechanical and Electrical:
 - a. In finished areas, paint all insulated and exposed pipes, unless otherwise indicated.
 - b. In finished areas, paint shop-primed items.
 - c. Paint interior surfaces of air ducts and convector and baseboard heating cabinets that are visible through grilles and louvers with one coat of flat black paint to visible surfaces.
 - d. Paint dampers exposed behind louvers, grilles, and convector and baseboard cabinets to match face panels.
- D. Do Not Paint or Finish the Following Items:
 - 1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Floors, unless specifically so indicated.
 - 6. Glass.
 - 7. Concealed pipes, ducts, and conduits.

1.02 REFERENCE STANDARDS

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency current edition.
- B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications 2016.
- C. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials 2020.
- D. SSPC (PM1) - Good Painting Practice: SSPC Painting Manual, Vol. 1; Society for Protective Coatings; Fourth Edition.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of all products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

- C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
 - 1. Where sheen is specified, submit samples in only that sheen.
 - 2. Where sheen is not specified, discuss sheen options with JEO Architecture, Inc. before preparing samples, to eliminate sheens definitely not required.
- D. Maintenance Materials: Furnish the following for JEO Consulting Group, Inc.'s use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
 - 2. Extra Paint and Coatings: 1 gallon of each color; store where directed.
 - 3. Label each container with color in addition to the manufacturer's label.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum five years experience.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
 - 1. Diamond Vogel Paints: www.diamondvogel.com/#sle.
 - 2. Benjamin Moore & Co: www.benjaminmoore.com/#sle.
 - 3. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
- C. Transparent Finishes:
 - 1. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
- D. Stains:
 - 1. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
- E. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PAINTS AND COATINGS - GENERAL

- A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.

1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 2. Supply each coating material in quantity required to complete entire project's work from a single production run.
 3. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
- B. Primers: As follows unless other primer is required or recommended by manufacturer of top coats; where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
- C. Volatile Organic Compound (VOC) Content:
1. Provide coatings that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
- D. Colors: To be selected from manufacturer's full range of available colors.
1. Selection to be made by JEO Architecture, Inc. after award of contract.
 2. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.

2.03 PAINT SYSTEMS - EXTERIOR

- A. Metal: Hollow Metal Doors and Frames, Glvanized Lintels::
1. 1st coat: Sherwin Williams, DTM Primer/Finish, B66W1 Series- Spot prime
 2. 2nd coat: Sherwin Williams, DTM Acrylic Semi-Gloss, B66-200 Series
 3. 3rd coat: Sherwin Williams, DTM Acrylic Semi-Gloss, B66-200 Series
 4. Colors: To be selected from manufacturer's full line of available colors.
- B. Fiber-Cement Siding
1. 1st Coat: Sherwin Williams, Loxon Masonry Primer
 2. 2nd Coat: Sherwin Williams, Duration Exterior Latex
 3. 3rd Coat: Sherwin Williams, Duration Exterior Latex
 4. Colors: To be selected from manufacturer's full line of available colors.

2.04 PAINT SYSTEMS - INTERIOR

- A. Metal: Hollow Metal Frames & Doors, Handrails, Guardrails, and Exposed Steel
1. 1st coat: Sherwin Williams, DTM Primer/Finish, B66W1 Series - Spot prime
 2. 2nd coat: Sherwin Williams, DTM Acrylic Semi-Gloss, B66-200 Series
 3. 3rd coat: Sherwin Williams, DTM Acrylic Semi-Gloss, B66-200 Series
 4. Colors: To be selected from manufacturer's full line of available colors.
- B. Gypsum Board
1. 1st coat: Sherwin Williams, Contractors Primer, B28WF162 Series
 2. 2nd coat: Sherwin Williams, ProMar 200 Interior Latex Eg-Shel, B20W2251 Series
 3. 3rd coat: Sherwin Williams, ProMar 200 Interior Latex Eg-Shel, B20W2251 Series
 4. Colors: To be selected from manufacturer's full line of available colors.
- C. Gypsum Board - Restroom Ceilings.
1. 1st coat: Sherwin Williams, Contractors Primer, B28WF162 Series
 2. 2nd coat: Sherwin Williams, Pro Industrial Pre-Catalyzed Waterbased Epoxy Eg-Shel K46 Series
 3. 3rd coat: Sherwin Williams, Pro Industrial Pre-Catalyzed Waterbased Epoxy Eg-Shel K46 Series

4. Colors: To be selected from manufacturer's full line of available colors.

2.05 ACCESSORY MATERIALS

- A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. If substrate preparation is the responsibility of another installer, notify JEO Architecture, Inc. of unsatisfactory preparation before proceeding.
- E. Test shop-applied primer for compatibility with subsequent cover materials.
- F. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Gypsum Wallboard: 12 percent.
 2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
 3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
 4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
 5. Concrete Floors and Traffic Surfaces: 8 percent.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to coating application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing coatings that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.
- H. Insulated Coverings to be Painted: Remove dirt, grease, and oil from canvas and cotton.
- I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- J. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-SP 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).
- K. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

- L. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
- M. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's instructions.
- C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance.
- F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
- G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- H. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection.

3.05 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

- A. Protect finished coatings until completion of project.
- B. Touch-up damaged coatings after Substantial Completion.

3.07 SCHEDULE - PAINT SYSTEMS

- A. Paint the surfaces as described in Part 2, Paint Systems Articles.

END OF SECTION

**SECTION 10 14 00
SIGNAGE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Room and door signs.

1.02 REFERENCE STANDARDS

- A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.
- C. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
 - 1. When room numbers to appear on signs differ from those on drawings, include the drawing room number on schedule.
 - 2. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
 - 3. Submit for approval by Owner through Architect prior to fabrication.
- D. Samples: Submit one sample of each type of sign, of size similar to that required for project, illustrating sign style, font, and method of attachment.
- E. Selection Samples: Where colors are not specified, submit two sets of color selection charts or chips.
- F. Manufacturer's Installation Instructions: Include installation templates and attachment devices.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

1.04 QUALITY ASSURANCE

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Package signs as required to prevent damage before installation.
- B. Package room and door signs in sequential order of installation, labeled by floor or building.
- C. Store tape adhesive at normal room temperature.

1.06 FIELD CONDITIONS

- A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.
- B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Flat Signs:
 - 1. Latitude Signage+Design;: www.latitudesignage.com
 - 2. Best Sign Systems, Inc: www.bestsigns.com/#sle.
 - 3. Cosco Industries (ADA signs): www.coscoarchitecturalsigns.com/#sle.

4. FASTSIGNS: www.fastsigns.com/#sle.
5. Inpro: www.inprocorp.com/#sle.
6. Mohawk Sign Systems, Inc: www.mohawksign.com/#sle.
7. Seton Identification Products: www.seton.com/aec/#sle.
8. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SIGNAGE APPLICATIONS

- A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.
- B. Room and Door Signs: Provide a sign for Mechanical Rooms, Restrooms, Decon Room, Offices, Storage Rooms
 1. Sign Type: Flat signs with engraved panel media as specified.
 2. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
 3. Character Height: 1 inch.
 4. Sign Height: 6x9 inches for restroom, 3x9 inches for Mechanical rooms, unless otherwise indicated.
 5. Service Rooms: Identify with Mechanical, Decon, Storage, EMS Storage.
 6. Rest Rooms: Identify with pictograms, the names "MEN" and "WOMEN", and braille.

2.03 SIGN TYPES

- A. Flat Signs: Signage media without frame.
 1. Edges: Square.
 2. Corners: Radiused.
 3. Wall Mounting of One-Sided Signs: Tape adhesive.
- B. Color and Font: Unless otherwise indicated:
 1. Character Font: Helvetica, Arial, or other sans serif font.
 2. Character Case: Upper case only.
 3. Background Color: As selected from manufacturer's full line.
 4. Character Color: Contrasting color.

2.04 TACTILE SIGNAGE MEDIA

- A. Injection Molded Panels: One-piece acrylic plastic, with raised letters and braille.
 1. Total Thickness: 1/8 inch.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install neatly, with horizontal edges level.
- C. Locate signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.
- D. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION

**SECTION 10 21 13.19
PLASTIC TOILET COMPARTMENTS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Solid plastic toilet compartments.
- B. Urinal screens.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Blocking and supports.
- B. Section 10 28 00 - Toilet, Bath, and Laundry Accessories.

1.03 REFERENCE STANDARDS

- A. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar, 2015.
- B. NFPA 286

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate the work with placement of support framing and anchors in walls and ceilings.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall supports, door swings.
- C. Product Data: Provide data on panel construction, hardware, and accessories.
- D. Samples: Submit two samples of partition panels, 4 by 4 inch in size illustrating panel finish, color, and sheen.
- E. Manufacturer's Installation Instructions: Indicate special procedures.

1.06 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: A company regularly engaged in manufacture of products specified in this section, and whose products have been in satisfactory use under similar service conditions for not less than 5 years.
- B. Installer's Qualifications: A Company or Individual, regularly engaged in installation of products specified in this Section, with a minimum of 5 years experience.

1.07 WARRANTY

- A. Twenty-five year warranty against breakage, corrosion, and delamination under normal conditions from the date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Solid Plastic Toilet Compartments:
 - 1. Scranton Products (Santana/Comtec/Capital); Product Hiny Hiders Solid Plastic Toilet Partitions: www.scrantonproducts.com. (Basis for Design)
 - 2. Hadrian Manufacturing, Inc.; Product Solid Plastic Toilet Partitions: www.hadrian-inc.com
 - 3. The following products shall be approved substitutions if the 25 year warranty as specified in Section 10 21 13.19, 1.08A is provided:
 - a. Accurate Partitions Corp.; Product Solid Plastic Polymer www.accuratepartitions.com.
 - b. Bradley Corp.; Product Bradmar Partitions www.bradleycorp.com.
 - c. Ampco; Product Solid Plastic High Density Polyethylene www.ampco.com.
 - d. Solid Partitions; www.solidpartitions.com

4. Substitutions: Section 01 60 00 - Product Requirements.

2.02 SOLID PLASTIC TOILET COMPARTMENTS

- A. Toilet Compartments: Factory fabricated doors, pilasters, and divider panels made of solid molded high density polyethylene (HDPE), floor-mounted headrail-braced. Partitions shall be fabricated from polymer resins compounded under high pressure, forming a single component which is waterproof, nonabsorbent and has a self-lubricating surface that resists marks from pens, pencils, markers and other writing instruments. All plastic components shall be covered with a protective plastic masking.
 - 1. Color: Refer to 09 99 90 - Color Schedule
- B. Doors:
 - 1. Thickness: 1 inch.
 - 2. Width: 30 inch.
 - 3. Width for Handicapped Use: 36 inch.
 - 4. Height: 55 inch.
- C. Panels:
 - 1. Thickness: 1 inch (25 mm).
 - 2. Height: 55 inch.
- D. Pilasters:
 - 1. Thickness: 1 inch (25 mm).
 - 2. Width: As required to fit space; minimum 3 inches (76 mm).
 - 3. Height: 82 inches high and fastened into a 3" high pilaster shoe with a stainless steel tamper resistant torx head sex bolt.
- E. Urinal Screens: Without doors; to match compartments; mounted to wall with two panel brackets with vertical support/bracing same as compartments.

2.03 HARDWARE

- A. Hinges shall be 8 inches and fabricated from heavy-duty extruded aluminum (6463-T5 alloy) with bright dip anodized finish with wrap-around flanges, through bolted to doors and pilasters with stainless steel, torx head sex bolts. Cams can be field set in 30-degree increments.
- B. Door strike/keeper shall be 6 inches long and made of heavy-duty extruded aluminum (6436-T5 alloy) with a bright dip anodized finish and secured to the pilasters with stainless steel tamper resistant torx head sex bolts. Bumper shall be made of extruded black vinyl.
- C. Latch and housing shall be made of heavy-duty extruded aluminum (6463-T5 alloy). The latch housing shall have a bright dip anodized finish, and the slide bolt and button shall have a black anodized finish.
- D. Coat Hook/Bumper: Combination type, chrome plated. Equip outswing handicapped doors with second pull and door stop.
- E. Pilaster sleeves shall be 3 inch high, Type 304, 20 gauge, stainless steel. Pilaster shoes shall be secured to the pilaster with a stainless steel tamper resistant torx head sex bolt.
- F. Wall brackets shall be continuous stainless steel type.
- G. Headrail shall be made of a heavy-duty extruded aluminum (6463-T5 alloy) with anti grip design. Headrail shall have a clear anodized finish.
- H. Headrail brackets shall be 20 gauge stainless steel with a satin finish.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated on shop drawings.
- B. Verify correct spacing of and between plumbing fixtures.
- C. Verify correct location of built-in framing, anchorage, and bracing.

3.02 INSTALLATION

- A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.
- B. Maintain 3/8 to 1/2 inch space between wall and panels and between wall and end pilasters.
- C. Attach panel brackets securely to walls using anchor devices.
- D. Attach panels and pilasters to brackets. Locate head rail joints at pilaster center lines.
- E. Field touch-up of scratches or damaged finish will not be permitted. Replace damaged or scratched materials with new materials.

3.03 TOLERANCES

- A. Maximum Variation From True Position: 1/4 inch.
- B. Maximum Variation From Plumb: 1/8 inch.

3.04 ADJUSTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/16 inch.
- B. Adjust hinges to position doors in partial opening position when unlatched. Return out-swinging doors to closed position.
- C. Adjust adjacent components for consistency of line or plane.

END OF SECTION

**SECTION 10 28 00
TOILET, BATH, AND LAUNDRY ACCESSORIES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Commercial toilet accessories.
- B. Grab bars.

1.02 RELATED REQUIREMENTS

- A. Section 06 1000 - Rough Carpentry: Concealed supports for accessories, including in wall framing and plates.
- B. Section 10 21 13.19 - Plastic Toilet Compartments.

1.03 REFERENCE STANDARDS

- A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.
- B. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service 2015a (Reapproved 2019).
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.
- D. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar 2015.
- E. ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium 2017.
- F. ASTM C1036 - Standard Specification for Flat Glass 2016.
- G. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror 2018.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on accessories describing size, finish, details of function, attachment methods.
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Products listed are made by Bobrick Washroom Equipment, Inc.
- B. Other Acceptable Manufacturers:
 - 1. A & J Washroom Accessories Inc: www.ajwashroom.com/#sle.
 - 2. American Specialties, Inc: www.americanspecialties.com/#sle.
 - 3. Bradley Corporation: www.bradleycorp.com/#sle.
 - 4. Substitutions: Section 01 60 00 - Product Requirements.
- C. All items of each type to be made by the same manufacturer.

2.02 MATERIALS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.

- B. Stainless Steel Sheet: ASTM A666, Type 304.
- C. Stainless Steel Tubing: ASTM A269, Type 304 or 316.
- D. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
- E. Mirror Glass: Float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
- F. Adhesive: Two component epoxy type, waterproof.
- G. Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof , security type.
- H. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

- A. Stainless Steel: No. 4 satin brushed finish, unless otherwise noted.
- B. Chrome/Nickel Plating: ASTM B456, SC 2, satin finish, unless otherwise noted.
- C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
- D. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.
- E. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
- F. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

- A. As indicated on drawings.
- B. Grab Bars: Stainless steel, nonslip grasping surface finish.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. Verify that field measurements are as indicated on drawings.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

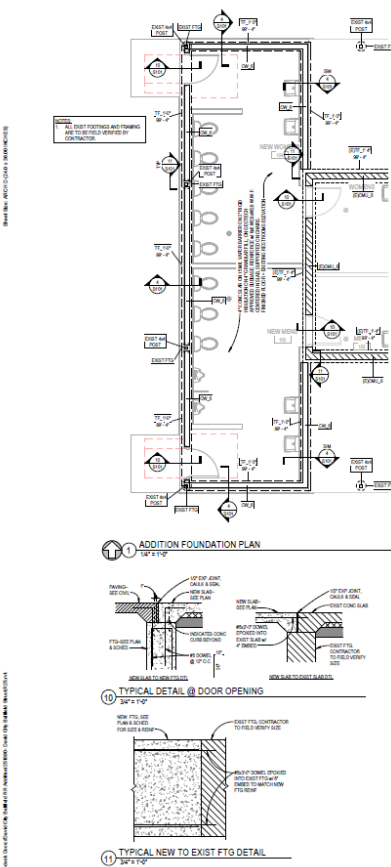
3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
- D. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings.

3.04 SCHEDULE

- A. Refer to drawings for scheduled accessories.

END OF SECTION



FOOTING SCHEDULE

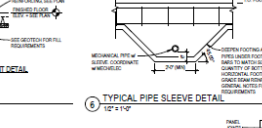
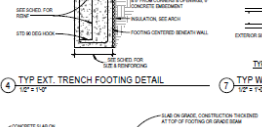
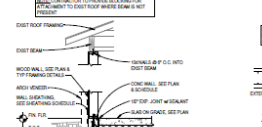
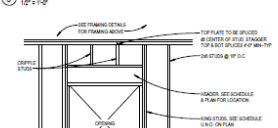
DESCRIPTION	NO.	QTY	REMARKS	STARTING
1. 12" x 12" x 12" CONCRETE FOOTING	1	1	SEE FOUNDATION PLAN FOR LOCATION	

CONCRETE WALL/CURB SCHEDULE

DESCRIPTION	NO.	QTY	REMARKS	STARTING
1. 12" x 12" x 12" CONCRETE WALL	1	1	SEE FOUNDATION PLAN FOR LOCATION	

CONCRETE WALL SCHEDULE

DESCRIPTION	NO.	QTY	REMARKS	STARTING
1. 12" x 12" x 12" CONCRETE WALL	1	1	SEE FOUNDATION PLAN FOR LOCATION	



WOOD HEADER SCHEDULE

DESCRIPTION	NO.	QTY	REMARKS	STARTING
1. 2" x 4" WOOD HEADER	1	1	SEE FOUNDATION PLAN FOR LOCATION	

WOOD ROOFRAIL SHEATHING SCHEDULE

MARK	DESCRIPTION	QTY	REMARKS	STARTING
1	1/2" OSB	1	SEE FOUNDATION PLAN FOR LOCATION	

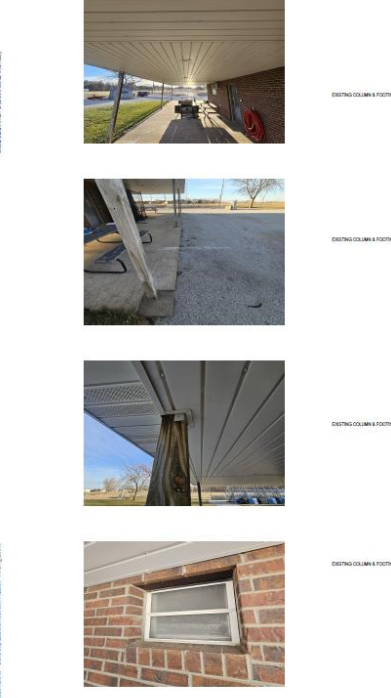
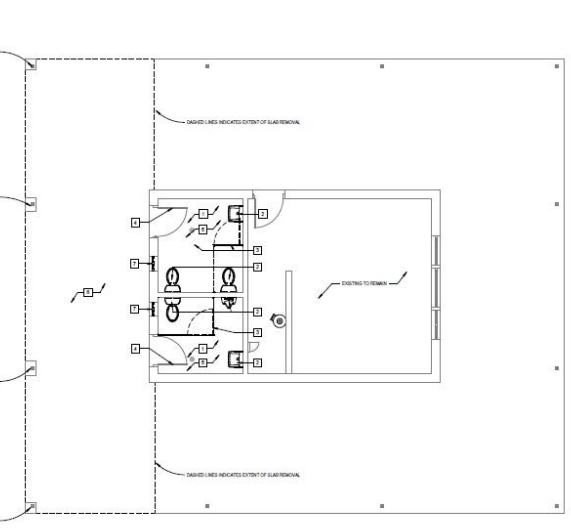


DEMOLITION NOTES

1. ALL EXISTING STRUCTURE TO BE DEMOLISHED AS SHOWN ON THIS PLAN.
2. EXISTING CONCRETE TO BE RECYCLED.
3. EXISTING WOOD TO BE RECYCLED.
4. EXISTING METAL TO BE RECYCLED.
5. EXISTING ELECTRICAL TO BE REMOVED AND RECYCLED.
6. EXISTING MECHANICAL TO BE REMOVED AND RECYCLED.
7. EXISTING ROOFING TO BE REMOVED AND RECYCLED.
8. EXISTING PAINT TO BE REMOVED AND RECYCLED.
9. EXISTING GLASS TO BE RECYCLED.
10. EXISTING FURNITURE TO BE REMOVED AND RECYCLED.
11. EXISTING APPLIANCES TO BE REMOVED AND RECYCLED.
12. EXISTING LIGHTING TO BE REMOVED AND RECYCLED.
13. EXISTING HEATING TO BE REMOVED AND RECYCLED.
14. EXISTING COOLING TO BE REMOVED AND RECYCLED.
15. EXISTING PLUMBING TO BE REMOVED AND RECYCLED.
16. EXISTING HVAC TO BE REMOVED AND RECYCLED.
17. EXISTING ELEVATORS TO BE REMOVED AND RECYCLED.
18. EXISTING STAIRS TO BE REMOVED AND RECYCLED.
19. EXISTING RAMPWAYS TO BE REMOVED AND RECYCLED.
20. EXISTING DRIVEWAYS TO BE REMOVED AND RECYCLED.
21. EXISTING PAVEMENT TO BE REMOVED AND RECYCLED.
22. EXISTING CURBS TO BE REMOVED AND RECYCLED.
23. EXISTING SIDEWALKS TO BE REMOVED AND RECYCLED.
24. EXISTING LANDSCAPE TO BE REMOVED AND RECYCLED.
25. EXISTING TREES TO BE PRESERVED OR RECYCLED.
26. EXISTING UTILITIES TO BE REMOVED AND RECYCLED.
27. EXISTING FOUNDATION TO BE REMOVED AND RECYCLED.
28. EXISTING WALLS TO BE REMOVED AND RECYCLED.
29. EXISTING FLOORS TO BE REMOVED AND RECYCLED.
30. EXISTING CEILING TO BE REMOVED AND RECYCLED.
31. EXISTING ROOF TO BE REMOVED AND RECYCLED.
32. EXISTING EXTERIOR FINISH TO BE REMOVED AND RECYCLED.
33. EXISTING INTERIOR FINISH TO BE REMOVED AND RECYCLED.
34. EXISTING PARTITIONS TO BE REMOVED AND RECYCLED.
35. EXISTING DOORS TO BE REMOVED AND RECYCLED.
36. EXISTING WINDOWS TO BE REMOVED AND RECYCLED.
37. EXISTING GLAZING TO BE REMOVED AND RECYCLED.
38. EXISTING HINGES TO BE REMOVED AND RECYCLED.
39. EXISTING LOCKS TO BE REMOVED AND RECYCLED.
40. EXISTING HANDLES TO BE REMOVED AND RECYCLED.
41. EXISTING TRIM TO BE REMOVED AND RECYCLED.
42. EXISTING MOLDINGS TO BE REMOVED AND RECYCLED.
43. EXISTING BASEBOARDS TO BE REMOVED AND RECYCLED.
44. EXISTING CORNICES TO BE REMOVED AND RECYCLED.
45. EXISTING CROWN MOULDING TO BE REMOVED AND RECYCLED.
46. EXISTING WALL PANELS TO BE REMOVED AND RECYCLED.
47. EXISTING FLOOR PANELS TO BE REMOVED AND RECYCLED.
48. EXISTING CEILING PANELS TO BE REMOVED AND RECYCLED.
49. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
50. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
51. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.
52. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
53. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
54. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.
55. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
56. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
57. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.
58. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
59. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
60. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.

GENERAL DEMOLITION NOTES

1. ALL EXISTING STRUCTURE TO BE DEMOLISHED AS SHOWN ON THIS PLAN.
2. EXISTING CONCRETE TO BE RECYCLED.
3. EXISTING WOOD TO BE RECYCLED.
4. EXISTING METAL TO BE RECYCLED.
5. EXISTING ELECTRICAL TO BE REMOVED AND RECYCLED.
6. EXISTING MECHANICAL TO BE REMOVED AND RECYCLED.
7. EXISTING ROOFING TO BE REMOVED AND RECYCLED.
8. EXISTING PAINT TO BE REMOVED AND RECYCLED.
9. EXISTING GLASS TO BE RECYCLED.
10. EXISTING FURNITURE TO BE REMOVED AND RECYCLED.
11. EXISTING APPLIANCES TO BE REMOVED AND RECYCLED.
12. EXISTING LIGHTING TO BE REMOVED AND RECYCLED.
13. EXISTING HEATING TO BE REMOVED AND RECYCLED.
14. EXISTING COOLING TO BE REMOVED AND RECYCLED.
15. EXISTING PLUMBING TO BE REMOVED AND RECYCLED.
16. EXISTING HVAC TO BE REMOVED AND RECYCLED.
17. EXISTING ELEVATORS TO BE REMOVED AND RECYCLED.
18. EXISTING STAIRS TO BE REMOVED AND RECYCLED.
19. EXISTING RAMPWAYS TO BE REMOVED AND RECYCLED.
20. EXISTING DRIVEWAYS TO BE REMOVED AND RECYCLED.
21. EXISTING PAVEMENT TO BE REMOVED AND RECYCLED.
22. EXISTING CURBS TO BE REMOVED AND RECYCLED.
23. EXISTING SIDEWALKS TO BE REMOVED AND RECYCLED.
24. EXISTING LANDSCAPE TO BE REMOVED AND RECYCLED.
25. EXISTING TREES TO BE PRESERVED OR RECYCLED.
26. EXISTING UTILITIES TO BE REMOVED AND RECYCLED.
27. EXISTING FOUNDATION TO BE REMOVED AND RECYCLED.
28. EXISTING WALLS TO BE REMOVED AND RECYCLED.
29. EXISTING FLOORS TO BE REMOVED AND RECYCLED.
30. EXISTING CEILING TO BE REMOVED AND RECYCLED.
31. EXISTING ROOF TO BE REMOVED AND RECYCLED.
32. EXISTING EXTERIOR FINISH TO BE REMOVED AND RECYCLED.
33. EXISTING INTERIOR FINISH TO BE REMOVED AND RECYCLED.
34. EXISTING PARTITIONS TO BE REMOVED AND RECYCLED.
35. EXISTING DOORS TO BE REMOVED AND RECYCLED.
36. EXISTING WINDOWS TO BE REMOVED AND RECYCLED.
37. EXISTING GLAZING TO BE REMOVED AND RECYCLED.
38. EXISTING HINGES TO BE REMOVED AND RECYCLED.
39. EXISTING LOCKS TO BE REMOVED AND RECYCLED.
40. EXISTING HANDLES TO BE REMOVED AND RECYCLED.
41. EXISTING TRIM TO BE REMOVED AND RECYCLED.
42. EXISTING MOLDINGS TO BE REMOVED AND RECYCLED.
43. EXISTING BASEBOARDS TO BE REMOVED AND RECYCLED.
44. EXISTING CORNICES TO BE REMOVED AND RECYCLED.
45. EXISTING CROWN MOULDING TO BE REMOVED AND RECYCLED.
46. EXISTING WALL PANELS TO BE REMOVED AND RECYCLED.
47. EXISTING FLOOR PANELS TO BE REMOVED AND RECYCLED.
48. EXISTING CEILING PANELS TO BE REMOVED AND RECYCLED.
49. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
50. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
51. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.
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57. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.
58. EXISTING ROOF PANELS TO BE REMOVED AND RECYCLED.
59. EXISTING EXTERIOR PANELS TO BE REMOVED AND RECYCLED.
60. EXISTING INTERIOR PANELS TO BE REMOVED AND RECYCLED.



EXISTING PHOTOS

JEO ARCHITECTURE INC
 1027 N CHESTNUT ST
 BANGOR, ME 05602
 800.723.8887 (jao.com)
 ORGANIZATION CERTIFICATION OF AUTHORIZATION NUMBER: CA-3025
 CONSULTANT TITLE AND DISCIPLINE ORGANIZATION CERTIFICATE OF AUTHORIZATION NUMBER: 10-0000 ADDRESS: CITY: ST: ZIP: 05603-0000

PRELIMINARY
 NOT FOR CONSTRUCTION
 100% DATE: 12/15/2025
 J.A.M./M.W.T/B.M.F.

ISSUE

MARK	DATE	DESCRIPTION

David City Ballfield RR Addition
 David City, Nebraska
 100 N. 1st, David City, NE 68622

JEO PROJECT NO: 251992.00
 DATE: 02.19.2026
 DRAWN BY: C. B. BROWN
 SHEET NO: 24 OF 24

FOUNDATION PLAN

S101

JEO ARCHITECTURE INC
 1027 N CHESTNUT ST
 BANGOR, ME 05602
 800.723.8887 (jao.com)
 ORGANIZATION CERTIFICATION OF AUTHORIZATION NUMBER: CA-3025
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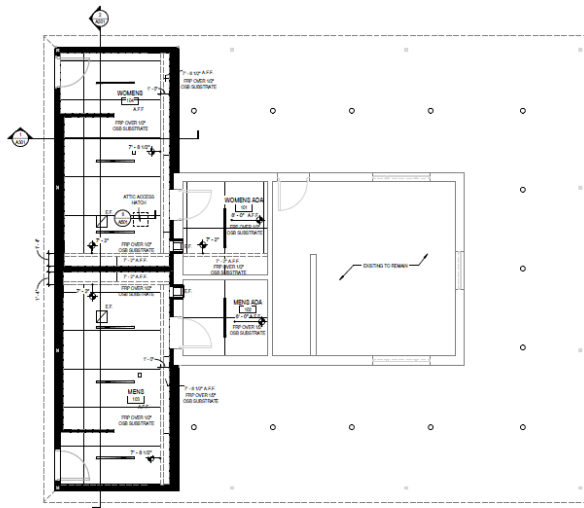
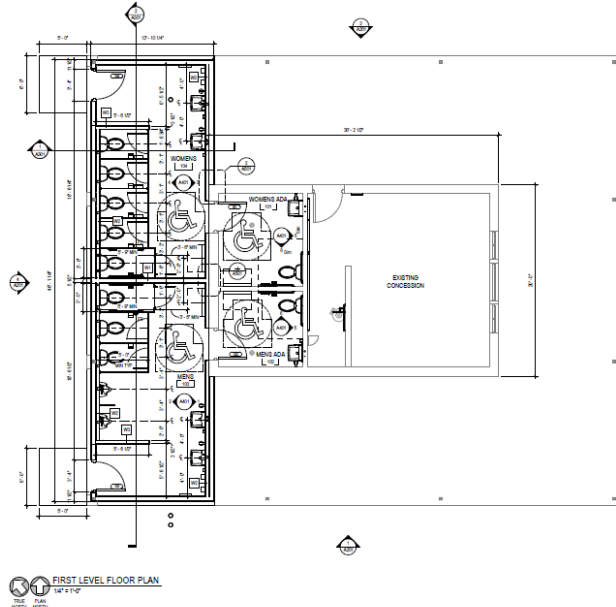
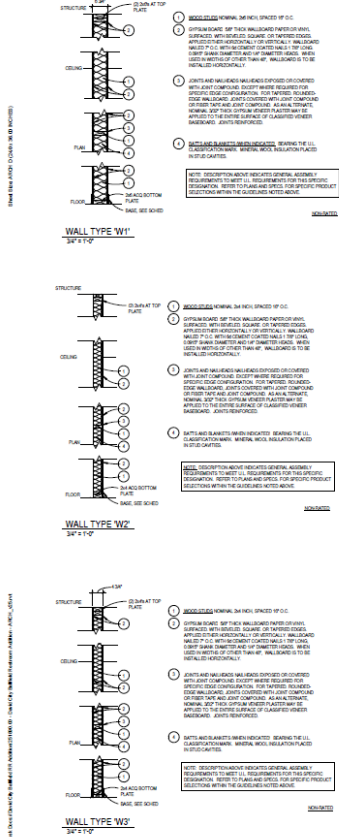
ISSUE

MARK	DATE	DESCRIPTION

David City Ballfield RR Addition
 David City, Nebraska
 100 N. 1st, David City, NE 68622

JEO PROJECT NO: 251992.00
 DATE: 02.19.2026
 DRAWN BY: C. B. BROWN
 SHEET NO: 24 OF 24

ARCHITECTURAL DEMOLITION FLOOR PLAN



GENERAL CODE NOTES

THIS SECTION SUMMARIZES THE APPLICABLE PORTIONS OF THE CODES. SEE THE ENTIRE CODES FOR THE COMPLETE LIST OF PROVISIONS. PROJECT SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODES. SEE THE CODES FOR THE COMPLETE LIST OF PROVISIONS.

- FOR ADDITIONAL INFORMATION REFER TO THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF DENVER.

APPLICABLE CODES

INTERNATIONAL RESIDENTIAL CODE BOOK (IRC) 2018 EDITION
 INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION
 INTERNATIONAL MECHANICAL AND ELECTRICAL PLUMBING CODE (IMC) 2018 EDITION
 INTERNATIONAL FIRE AND SAFETY CODE (IFSC) 2018 EDITION
 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 EDITION
 2021 IBC
 2021 IRC

BUILDING STATISTICS

TYPE OF CONSTRUCTION: TYPE III - UNFIRE RESISTANT
 CLASSIFICATION OF OCCUPANCY: B - BUSINESS (SEE TABLE 103.1)

GENERAL PLAN NOTES

- ALL WALL TYPES TO BE 12" UNLESS OTHERWISE NOTED.
- ALL EXTERIOR DIMENSIONS ARE REFERENCED FROM FACE UNLESS OTHERWISE NOTED.
- ALL EXTERIOR DIMENSIONS ARE REFERENCED FROM FACE OF STUD TO FACE OF STUD.
- DIMENSIONS TO CURVED WALLS ARE TO FACE OF FINISH LANDING.
- REFER TO THE CODE REQUIREMENTS FOR ALL INTERIOR FINISHES.
- INTERIOR FINISHES TO BE SCHEDULE 40 UNLESS OTHERWISE NOTED.
- REFER TO THE CODE REQUIREMENTS FOR ALL INTERIOR FINISHES.
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JEO ARCHITECTURE INC.
 1527 N CHESTNUT ST
 WASHCO, NE 68088
 800.723.8997

CONSULTANT TITLE AND DISCIPLINE
 ORGANIZATION CERTIFICATE OF AUTHORIZATION NUMBER: CA-3929
 CITY: ST. LOUIS, MO
 001.000.0000

PRELIMINARY
 NOT FOR CONSTRUCTION
 100%
 DATE: 02/19/2025
 SHEET SIZE: 11" x 17" (304.8 x 426.7 mm)

ISSUE	MARK	DATE	DESCRIPTION

David City Ballfield RR Addition

David City, Nebraska
 100 N PA, DAVID CITY, NE 68612

JEO PROJECT NO.: 251906.00
 DATE: 02/19/2025
 SCALE: AS SHOWN
 DRAWN BY: JES
 SHEET SIZE: 11" x 17"

ARCHITECTURAL FLOOR PLAN

A101



JEO ARCHITECTURE INC.
 1527 N CHESTNUT ST
 WASHCO, NE 68088
 800.723.8997

CONSULTANT TITLE AND DISCIPLINE
 ORGANIZATION CERTIFICATE OF AUTHORIZATION NUMBER: CA-3929
 CITY: ST. LOUIS, MO
 001.000.0000

PRELIMINARY
 NOT FOR CONSTRUCTION
 100%
 DATE: 02/19/2025
 SHEET SIZE: 11" x 17" (304.8 x 426.7 mm)

ISSUE	MARK	DATE	DESCRIPTION

David City Ballfield RR Addition

David City, Nebraska
 100 N PA, DAVID CITY, NE 68612

JEO PROJECT NO.: 251906.00
 DATE: 02/19/2025
 SCALE: AS SHOWN
 DRAWN BY: JES
 SHEET SIZE: 11" x 17"

REFLECTED CEILING PLAN

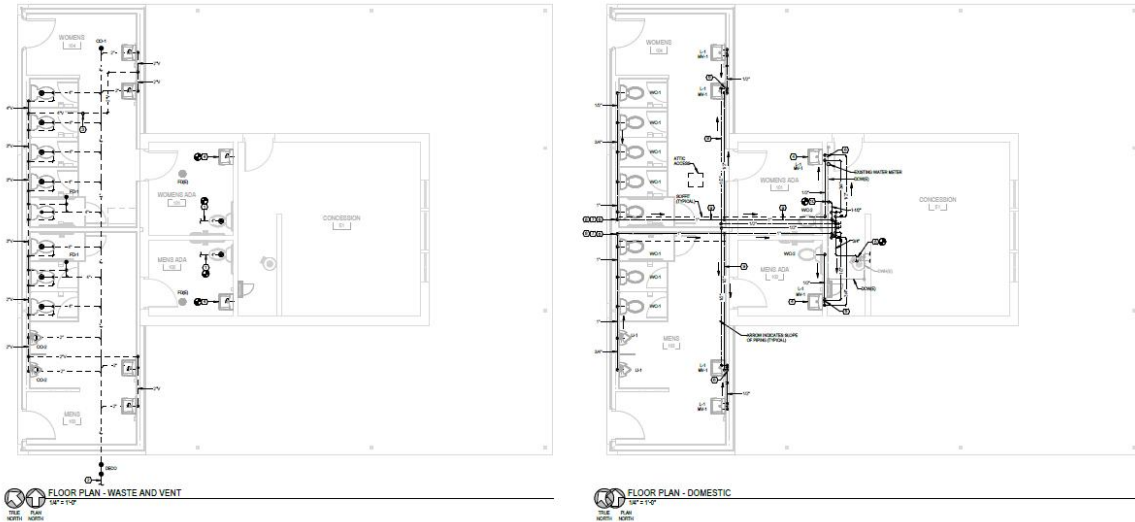
A111

DATE: 01/20/2025 10:00 AM

PROJECT: DAVID CITY BALLFIELD RE-ADDITION - 400 CONGRESS ST, LITTLE ROCK, AR

DATE: 01/20/2025 10:00 AM

PROJECT: DAVID CITY BALLFIELD RE-ADDITION - 400 CONGRESS ST, LITTLE ROCK, AR



KEY NOTES

1. SEE ALL NOTES ON SHEETS PLUMBING-01 THROUGH PLUMBING-05 FOR GENERAL NOTES AND SPECIFICATIONS.
2. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
3. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
4. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
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9. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
10. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.

JEO ARCHITECTURE INC
 1627 N CHESTNUT ST
 LITTLE ROCK, AR 72202
 501.773.8587 (jao.com)
 JEO Architecture, Inc.
 Organization Certificate of
 Authorization Number: CA-3029

Advanced Engineering Systems, Inc.
 MEP
 Organization Certificate of
 Authorization Number: CA-1902
 4623 Anderson Circle, Suite 200
 Little Rock, AR 72209
 482-488-0075

PRELIMINARY
 NOT FOR
 CONSTRUCTION
 100%
 DATE
 01/20/2025

ISSUE

MARK	DATE	DESCRIPTION

David City Ballfield RR Addition

David City, Arkansas
 100 W 1st, David City, NE 68622

JEO Project No: 251800.00
 Date: 02.19.2025
 SACS: JAO
 Drawn By: JAO

PLUMBING FLOOR PLANS

P101

DETAILS SHALL BE USED IN ALL APPLICABLE SITUATIONS
 WHETHER SPECIFICALLY CALLED OUT OR NOT

PLUMBING FIXTURES

MARK	FIXTURE	MANUFACTURE	MODEL #	FINISH	HEIGHT	SPACING	NOTES
001	TOILET	DAVID CITY	1000	18"	14"		
002	URINAL	DAVID CITY	1000	18"	14"		
003	SINK	DAVID CITY	1000	18"	14"		
004	SHOWER	DAVID CITY	1000	18"	14"		
005	WATER HEATER	DAVID CITY	1000	18"	14"		

PLUMBING FIXTURES SCHEDULE NOTES

1. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
2. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
3. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
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8. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
9. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.
10. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED OTHERWISE.

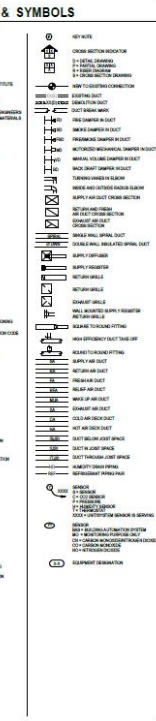
PIPE SUPPORT SCHEDULE

PIPE MATERIAL	PIPE SIZE	INSULATION	SPACING	NOTES
1/2" GALV. STEEL	1/2"	1"	4'	
3/4" GALV. STEEL	3/4"	1"	4'	
1" GALV. STEEL	1"	1"	4'	
1 1/2" GALV. STEEL	1 1/2"	1"	4'	
2" GALV. STEEL	2"	1"	4'	
2 1/2" GALV. STEEL	2 1/2"	1"	4'	
3" GALV. STEEL	3"	1"	4'	
3 1/2" GALV. STEEL	3 1/2"	1"	4'	
4" GALV. STEEL	4"	1"	4'	
4 1/2" GALV. STEEL	4 1/2"	1"	4'	
5" GALV. STEEL	5"	1"	4'	
5 1/2" GALV. STEEL	5 1/2"	1"	4'	
6" GALV. STEEL	6"	1"	4'	
6 1/2" GALV. STEEL	6 1/2"	1"	4'	
8" GALV. STEEL	8"	1"	4'	
8 1/2" GALV. STEEL	8 1/2"	1"	4'	
10" GALV. STEEL	10"	1"	4'	
10 1/2" GALV. STEEL	10 1/2"	1"	4'	
12" GALV. STEEL	12"	1"	4'	
12 1/2" GALV. STEEL	12 1/2"	1"	4'	
14" GALV. STEEL	14"	1"	4'	
14 1/2" GALV. STEEL	14 1/2"	1"	4'	
16" GALV. STEEL	16"	1"	4'	
16 1/2" GALV. STEEL	16 1/2"	1"	4'	
18" GALV. STEEL	18"	1"	4'	
18 1/2" GALV. STEEL	18 1/2"	1"	4'	
20" GALV. STEEL	20"	1"	4'	
20 1/2" GALV. STEEL	20 1/2"	1"	4'	
24" GALV. STEEL	24"	1"	4'	
24 1/2" GALV. STEEL	24 1/2"	1"	4'	
30" GALV. STEEL	30"	1"	4'	
30 1/2" GALV. STEEL	30 1/2"	1"	4'	
36" GALV. STEEL	36"	1"	4'	
36 1/2" GALV. STEEL	36 1/2"	1"	4'	
42" GALV. STEEL	42"	1"	4'	
42 1/2" GALV. STEEL	42 1/2"	1"	4'	
48" GALV. STEEL	48"	1"	4'	
48 1/2" GALV. STEEL	48 1/2"	1"	4'	
54" GALV. STEEL	54"	1"	4'	
54 1/2" GALV. STEEL	54 1/2"	1"	4'	
60" GALV. STEEL	60"	1"	4'	
60 1/2" GALV. STEEL	60 1/2"	1"	4'	
66" GALV. STEEL	66"	1"	4'	
66 1/2" GALV. STEEL	66 1/2"	1"	4'	
72" GALV. STEEL	72"	1"	4'	
72 1/2" GALV. STEEL	72 1/2"	1"	4'	
78" GALV. STEEL	78"	1"	4'	
78 1/2" GALV. STEEL	78 1/2"	1"	4'	
84" GALV. STEEL	84"	1"	4'	
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90" GALV. STEEL	90"	1"	4'	
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96" GALV. STEEL	96"	1"	4'	
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102" GALV. STEEL	102"	1"	4'	
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126 1/2" GALV. STEEL	126 1/2"	1"	4'	
132" GALV. STEEL	132"	1"	4'	
132 1/2" GALV. STEEL	132 1/2"	1"	4'	
138" GALV. STEEL	138"	1"	4'	
138 1/2" GALV. STEEL	138 1/2"	1"	4'	
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156" GALV. STEEL	156"	1"	4'	
156 1/2" GALV. STEEL	156 1/2"	1"	4'	
162" GALV. STEEL	162"	1"	4'	
162 1/2" GALV. STEEL	162 1/2"	1"	4'	
168" GALV. STEEL	168"	1"	4'	
168 1/2" GALV. STEEL	168 1/2"	1"	4'	
174" GALV. STEEL	174"	1"	4'	
174 1/2" GALV. STEEL	174 1/2"	1"	4'	
180" GALV. STEEL	180"	1"	4'	
180 1/2" GALV. STEEL	180 1/2"	1"	4'	
186" GALV. STEEL	186"	1"	4'	
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192" GALV. STEEL	192"	1"	4'	
192 1/2" GALV. STEEL	192 1/2"	1"	4'	
198" GALV. STEEL	198"	1"	4'	
198 1/2" GALV. STEEL	198 1/2"	1"	4'	
204" GALV. STEEL	204"	1"	4'	
204 1/2" GALV. STEEL	204 1/2"	1"	4'	
210" GALV. STEEL	210"	1"	4'	
210 1/2" GALV. STEEL	210 1/2"	1"	4'	
216" GALV. STEEL	216"	1"	4'	
216 1/2" GALV. STEEL	216 1/2"	1"	4'	
222" GALV. STEEL	222"	1"	4'	
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228" GALV. STEEL	228"	1"	4'	
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246" GALV. STEEL	246"	1"	4'	
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258" GALV. STEEL	258"	1"	4'	
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276" GALV. STEEL	276"	1"	4'	
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282" GALV. STEEL	282"	1"	4'	
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288" GALV. STEEL	288"	1"	4'	
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360" GALV. STEEL	360"	1"	4'	
360 1/2" GALV. STEEL	360 1/2"	1"	4'	
366" GALV. STEEL	366"	1"	4'	
366 1/2" GALV. STEEL	366 1/2"	1"	4'	
372" GALV. STEEL	372"	1"	4'	
372 1/2" GALV. STEEL	372 1/2"	1"	4'	
378" GALV. STEEL	378"	1"	4'	
378 1/2" GALV. STEEL	378 1/2"	1"	4'	
384" GALV. STEEL	384"	1"	4'	
384 1/2" GALV. STEEL	384 1/2"	1"	4'	
390" GALV. STEEL	390"	1"	4'	
390 1/2" GALV. STEEL	390 1/2"	1"	4'	
396" GALV. STEEL	396"	1"	4'	
396 1/2" GALV. STEEL	396 1/2"	1"	4'	
402" GALV. STEEL	402"	1"	4'	
402 1/2" GALV. STEEL	402 1/2"	1"	4'	
408" GALV. STEEL	408"	1"	4'	
408 1/2" GALV. STEEL	408 1/2"	1"	4'	
414" GALV. STEEL	414"	1"	4'	
414 1/2" GALV. STEEL	414 1/2"	1"	4'	
420" GALV. STEEL	420"	1"	4'	
420 1/2" GALV. STEEL	420 1/2"	1"	4'	
426" GALV. STEEL	426"	1"	4'	
426 1/2" GALV. STEEL	426 1/2"	1"	4'	
432" GALV. STEEL	432"	1"	4'	
432 1/2" GALV. STEEL	432 1/2"	1"	4'	
438" GALV. STEEL	438"	1"	4'	
438 1/2" GALV. STEEL	438 1/2"	1"	4'	
444" GALV. STEEL	444"	1"	4'	
444 1/2" GALV. STEEL	444 1/2"	1"	4'	
450" GALV. STEEL	450"	1"	4'	
450 1/2" GALV. STEEL	450 1/2"	1"	4'	
456" GALV. STEEL	456"	1"	4'	
456 1/2" GALV. STEEL	456 1/2"	1"	4'	
462" GALV. STEEL	462"	1"	4'	
462 1/2" GALV. STEEL	462 1/2"	1"	4'	
468" GALV. STEEL	468"	1"	4'	
468 1/2" GALV. STEEL	468 1/2"	1"	4'	
474" GALV. STEEL	474"	1"	4'	
474 1/2" GALV. STEEL	474 1/2"	1"	4'	
480" GALV. STEEL	480"	1"	4'	
480 1/2" GALV. STEEL	480 1/2"	1"	4'	
486" GALV. STEEL	486"	1"	4'	
486 1/2" GALV. STEEL	486 1/2"	1"	4'	
492" GALV. STEEL	492"	1"		

ABBREVIATIONS & SYMBOLS

GENERAL LIST - SEE ALL MATERIALS

AS	Asphalt
BS	Brick
CS	Cast Stone
ES	Exterior Siding
FS	Fabric Siding
GS	Gypsum Board
HS	Hardwood Siding
IS	Interior Siding
JS	Joint Compound
KS	Keel
LS	Lath
MS	Masonry
NS	Non-Slip
OS	Other
PS	Paint
QS	Quartz
RS	Rubber
SS	Stainless Steel
TS	Tile
US	Urethane
VS	Vinyl Siding
WS	Wood Siding
XS	Other
YS	Other
ZS	Other
AS	Asphalt
BS	Brick
CS	Cast Stone
ES	Exterior Siding
FS	Fabric Siding
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RS	Rubber
SS	Stainless Steel
TS	Tile
US	Urethane
VS	Vinyl Siding
WS	Wood Siding
XS	Other
YS	Other
ZS	Other



HVAC SPECIFICATIONS

GENERAL CONSTRUCTION METHODS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

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10. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

GENERAL REQUIREMENTS - HVAC

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

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GENERAL REQUIREMENTS - HVAC

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10. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CONTRACTORS (IMC) CODE, LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

GENERAL PROJECT NOTES

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JEO ARCHITECTURE INC.
 187 N CHESTER ST
 NEWTON, MA 02459
 800.723.8897 | j@jao.com
 Organization Certificate of
 Authorization Number: CA-303

Advanced Engineering Systems, Inc.
 Organization Certificate of
 Authorization Number: CA-188
 463 Western Creek Rd, Suite 200
 Lincoln, MA 01855
 402-688-0075

PRELIMINARY
 NOT FOR
 CONSTRUCTION
 100%
 DATE
 11/14/2025

ISSUE

MARK	DATE	DESCRIPTION

**David City Ballfield RR
 Additions**

David City, Nebraska
 100 N PA, David City, NE 68622

JEO Project No.: 25199.00
 Date: 02.19.2026
 DWG: M000
 Drawn By: JH

HVAC NOTES, SPECIFICATIONS, AND SYMBOLS

M000

JEO ARCHITECTURE INC.
 187 N CHESTER ST
 NEWTON, MA 02459
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 Lincoln, MA 01855
 402-688-0075

PRELIMINARY
 NOT FOR
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 100%
 DATE
 11/14/2025

ISSUE

MARK	DATE	DESCRIPTION

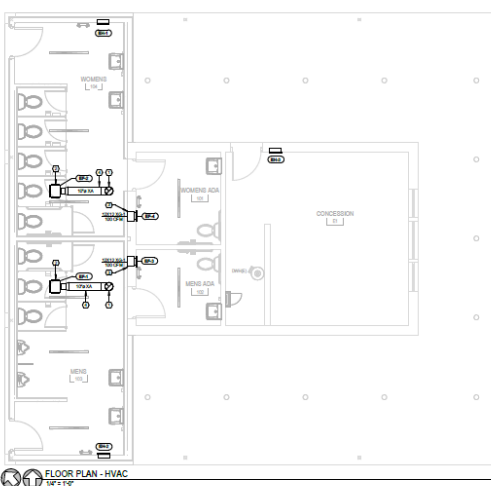
**David City Ballfield RR
 Additions**

David City, Nebraska
 100 N PA, David City, NE 68622

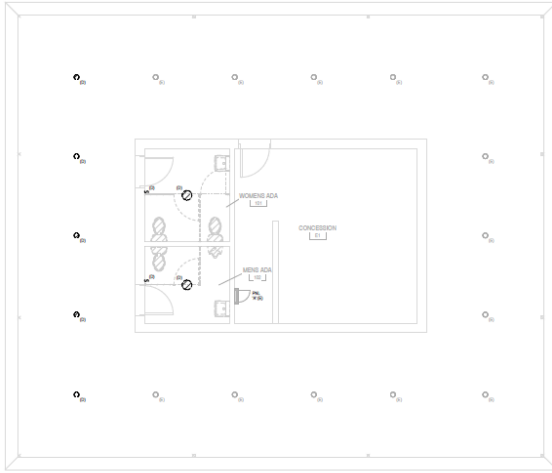
JEO Project No.: 25199.00
 Date: 02.19.2026
 DWG: M000
 Drawn By: JH

HVAC FLOOR PLAN

M101

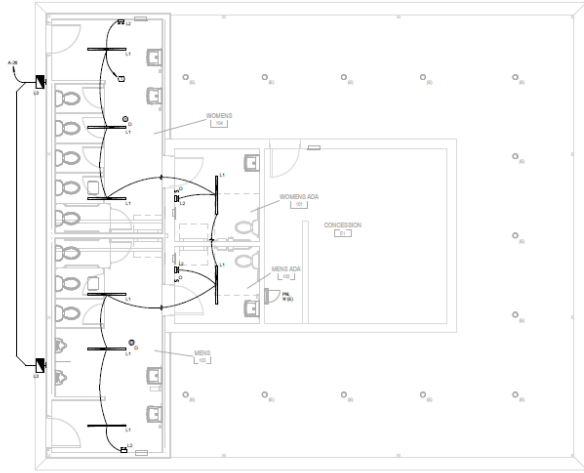


Sheet No. 2025-02-01-01-001-001



FIRST FLOOR LIGHTING PLAN - DEMO
 1/4" = 1'-0"
 THE NORTH

Sheet No. 2025-02-01-01-001-002



FIRST FLOOR LIGHTING PLAN
 1/4" = 1'-0"
 THE NORTH

KEY NOTES

1. CONNECT TO EXISTING ELECTRICAL PANELS

JEO ARCHITECTURE INC
 1827 N CHESTNUT ST
 SUITE 201, LINCOLN, NE 68502
 402.733.8987 | jao.com

JEO Architecture, Inc.
 Organization Certificate of
 Authorization Number: CA-3829

Advanced Engineering Systems, Inc.
 MEP
 Organization Certificate of
 Authorization Number: CA-1802
 402.499.0999, Suite 200
 Lincoln, NE 68508
 402-499-0573

PRELIMINARY
 NOT FOR
 CONSTRUCTION
 100%
 DATE
 12/19/2025

ISSUE

MARK	DATE	DESCRIPTION
------	------	-------------

David City Ballfield RR Addition

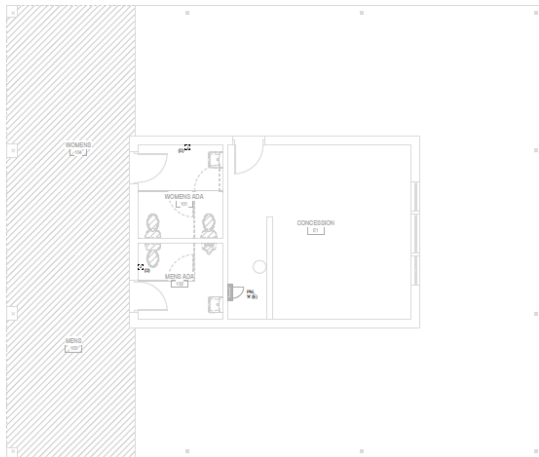
David City, Nebraska
 100 W. Pk. David City, NE 68822

JEO Project No: 251800.00
 Date: 02.19.2025
 SMO: JF
 Drawn By: MSA

LIGHTING FLOOR PLANS

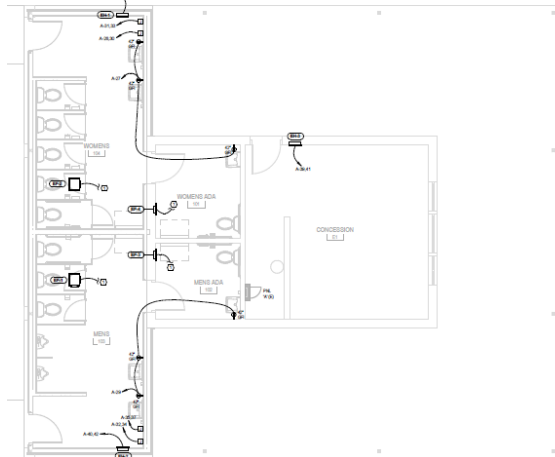
E101

Sheet No. 2025-02-01-01-001-003



FIRST FLOOR POWER PLAN - DEMO
 1/4" = 1'-0"
 THE NORTH

Sheet No. 2025-02-01-01-001-004



FIRST FLOOR POWER PLAN
 1/4" = 1'-0"
 THE NORTH

KEY NOTES

1. CONNECT TO EXISTING ELECTRICAL PANELS

JEO ARCHITECTURE INC
 1827 N CHESTNUT ST
 SUITE 201, LINCOLN, NE 68502
 402.733.8987 | jao.com

JEO Architecture, Inc.
 Organization Certificate of
 Authorization Number: CA-3829

Advanced Engineering Systems, Inc.
 MEP
 Organization Certificate of
 Authorization Number: CA-1802
 402.499.0999, Suite 200
 Lincoln, NE 68508
 402-499-0573

PRELIMINARY
 NOT FOR
 CONSTRUCTION
 100%
 DATE
 12/19/2025

ISSUE

MARK	DATE	DESCRIPTION
------	------	-------------

David City Ballfield RR Addition

David City, Nebraska
 100 W. Pk. David City, NE 68822

JEO Project No: 251800.00
 Date: 02.19.2025
 SMO: JF
 Drawn By: MSA

POWER FLOOR PLANS

E201

Revision: 2025-02-20 10:43:00 AM

Revision: 2025-02-20 10:43:00 AM

Revision: 2025-02-20 10:43:00 AM

Revision: 2025-02-20 10:43:00 AM

FEEDER SCHEDULE		
LINE	DESCRIPTION	ALLOCATION
4-000	FEEDER	
4-001	FEEDER	
4-002	FEEDER	
4-003	FEEDER	
4-004	FEEDER	
4-005	FEEDER	
4-006	FEEDER	
4-007	FEEDER	
4-008	FEEDER	
4-009	FEEDER	
4-010	FEEDER	
4-011	FEEDER	
4-012	FEEDER	
4-013	FEEDER	
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4-094	FEEDER	
4-095	FEEDER	
4-096	FEEDER	
4-097	FEEDER	
4-098	FEEDER	
4-099	FEEDER	
4-100	FEEDER	

FEEDER SCHEDULE GENERAL NOTES:

1. ALL FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES.
2. FEEDER SIZES SHALL BE DETERMINED BY THE LOADS LISTED IN THIS SCHEDULE AND SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES.
3. FEEDER SIZES SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES.

PANEL SCHEDULE: A											
GENERAL INFORMATION						EQUIPMENT INFORMATION					
LINE	DESCRIPTION	TYPE	SIZE	TERMINALS	TERMINALS	TYPE	SIZE	TERMINALS	TERMINALS	TERMINALS	TERMINALS
1	MAIN SERVICE PANEL	1000	400	40	40	1	1000	400	40	40	40
2	MAIN SERVICE PANEL	1000	400	40	40	2	1000	400	40	40	40
3	MAIN SERVICE PANEL	1000	400	40	40	3	1000	400	40	40	40
4	MAIN SERVICE PANEL	1000	400	40	40	4	1000	400	40	40	40
5	MAIN SERVICE PANEL	1000	400	40	40	5	1000	400	40	40	40
6	MAIN SERVICE PANEL	1000	400	40	40	6	1000	400	40	40	40
7	MAIN SERVICE PANEL	1000	400	40	40	7	1000	400	40	40	40
8	MAIN SERVICE PANEL	1000	400	40	40	8	1000	400	40	40	40
9	MAIN SERVICE PANEL	1000	400	40	40	9	1000	400	40	40	40
10	MAIN SERVICE PANEL	1000	400	40	40	10	1000	400	40	40	40
11	MAIN SERVICE PANEL	1000	400	40	40	11	1000	400	40	40	40
12	MAIN SERVICE PANEL	1000	400	40	40	12	1000	400	40	40	40
13	MAIN SERVICE PANEL	1000	400	40	40	13	1000	400	40	40	40
14	MAIN SERVICE PANEL	1000	400	40	40	14	1000	400	40	40	40
15	MAIN SERVICE PANEL	1000	400	40	40	15	1000	400	40	40	40
16	MAIN SERVICE PANEL	1000	400	40	40	16	1000	400	40	40	40
17	MAIN SERVICE PANEL	1000	400	40	40	17	1000	400	40	40	40
18	MAIN SERVICE PANEL	1000	400	40	40	18	1000	400	40	40	40
19	MAIN SERVICE PANEL	1000	400	40	40	19	1000	400	40	40	40
20	MAIN SERVICE PANEL	1000	400	40	40	20	1000	400	40	40	40
21	MAIN SERVICE PANEL	1000	400	40	40	21	1000	400	40	40	40
22	MAIN SERVICE PANEL	1000	400	40	40	22	1000	400	40	40	40
23	MAIN SERVICE PANEL	1000	400	40	40	23	1000	400	40	40	40
24	MAIN SERVICE PANEL	1000	400	40	40	24	1000	400	40	40	40
25	MAIN SERVICE PANEL	1000	400	40	40	25	1000	400	40	40	40
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30	MAIN SERVICE PANEL	1000	400	40	40	30	1000	400	40	40	40
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34	MAIN SERVICE PANEL	1000	400	40	40	34	1000	400	40	40	40
35	MAIN SERVICE PANEL	1000	400	40	40	35	1000	400	40	40	40
36	MAIN SERVICE PANEL	1000	400	40	40	36	1000	400	40	40	40
37	MAIN SERVICE PANEL	1000	400	40	40	37	1000	400	40	40	40
38	MAIN SERVICE PANEL	1000	400	40	40	38	1000	400	40	40	40
39	MAIN SERVICE PANEL	1000	400	40	40	39	1000	400	40	40	40
40	MAIN SERVICE PANEL	1000	400	40	40	40	1000	400	40	40	40

EQUIPMENT CONNECTION SCHEDULE											
LINE	DESCRIPTION	TYPE	SIZE	TERMINALS	TERMINALS	TYPE	SIZE	TERMINALS	TERMINALS	TERMINALS	TERMINALS
1	MAIN SERVICE PANEL	1000	400	40	40	1	1000	400	40	40	40
2	MAIN SERVICE PANEL	1000	400	40	40	2	1000	400	40	40	40
3	MAIN SERVICE PANEL	1000	400	40	40	3	1000	400	40	40	40
4	MAIN SERVICE PANEL	1000	400	40	40	4	1000	400	40	40	40
5	MAIN SERVICE PANEL	1000	400	40	40	5	1000	400	40	40	40
6	MAIN SERVICE PANEL	1000	400	40	40	6	1000	400	40	40	40
7	MAIN SERVICE PANEL	1000	400	40	40	7	1000	400	40	40	40
8	MAIN SERVICE PANEL	1000	400	40	40	8	1000	400	40	40	40
9	MAIN SERVICE PANEL	1000	400	40	40	9	1000	400	40	40	40
10	MAIN SERVICE PANEL	1000	400	40	40	10	1000	400	40	40	40
11	MAIN SERVICE PANEL	1000	400	40	40	11	1000	400	40	40	40
12	MAIN SERVICE PANEL	1000	400	40	40	12	1000	400	40	40	40
13	MAIN SERVICE PANEL	1000	400	40	40	13	1000	400	40	40	40
14	MAIN SERVICE PANEL	1000	400	40	40	14	1000	400	40	40	40
15	MAIN SERVICE PANEL	1000	400	40	40	15	1000	400	40	40	40
16	MAIN SERVICE PANEL	1000	400	40	40	16	1000	400	40	40	40
17	MAIN SERVICE PANEL	1000	400	40	40	17	1000	400	40	40	40
18	MAIN SERVICE PANEL	1000	400	40	40	18	1000	400	40	40	40
19	MAIN SERVICE PANEL	1000	400	40	40	19	1000	400	40	40	40
20	MAIN SERVICE PANEL	1000	400	40	40	20	1000	400	40	40	40
21	MAIN SERVICE PANEL	1000	400	40	40	21	1000	400	40	40	40
22	MAIN SERVICE PANEL	1000	400	40	40	22	1000	400	40	40	40
23	MAIN SERVICE PANEL	1000	400	40	40	23	1000	400	40	40	40
24	MAIN SERVICE PANEL	1000	400	40	40	24	1000	400	40	40	40
25	MAIN SERVICE PANEL	1000	400	40	40	25	1000	400	40	40	40
26	MAIN SERVICE PANEL	1000	400	40	40	26	1000	400	40	40	40
27	MAIN SERVICE PANEL	1000	400	40	40	27	1000	400	40	40	40
28	MAIN SERVICE PANEL	1000	400	40	40	28	1000	400	40	40	40
29	MAIN SERVICE PANEL	1000	400	40	40	29	1000	400	40	40	40
30	MAIN SERVICE PANEL	1000	400	40	40	30	1000	400	40	40	40
31	MAIN SERVICE PANEL	1000	400	40	40	31	1000	400	40	40	40
32	MAIN SERVICE PANEL	1000	400	40	40	32	1000	400	40	40	40
33	MAIN SERVICE PANEL	1000	400	40	40	33	1000	400	40	40	40
34	MAIN SERVICE PANEL	1000	400	40	40	34	1000	400	40	40	40

City Council Proceedings

February 25, 2026

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Recreation Director Will Reiter was unable to attend and submitted a Recommendation Letter to join the Interlocal Purchasing System.

City of David City
Recreation Department

Date: February 24th, 2026

To: Mayor and City Council
From: William Reiter, Recreation Director
Re: TIPS USA- membership

Mayor and Members of the Council,

I would like to briefly explain why I am recommending approval of membership in TIPS (The Interlocal Purchasing System).

TIPS is a national cooperative purchasing entity used by public agencies, schools, and municipalities to procure construction and services through competitively solicited contracts. The purpose of joining TIPS is not to avoid bidding requirements, but to use a procurement method that has already completed a full competitive solicitation process meeting state and federal standards.

Membership gives the City an additional legally compliant procurement option. It does not obligate the City to purchase anything, nor does it eliminate Council oversight or approval authority. Each project would still come before the Council for authorization.

The benefit is administrative efficiency and risk reduction. For large or specialized projects, traditional bidding can delay timelines and increase the risk of failed bids or rebidding. Cooperative purchasing allows the City to use an already-established competitive contract, reducing project delays while maintaining compliance with procurement regulations.

This is particularly important when projects involve grants or construction timelines. Having multiple procurement tools available helps ensure the City can complete projects within funding deadlines while maintaining proper documentation and audit compliance.

In short, joining TIPS does not commit the City to spending funds — it simply expands the procurement tools available to the City so future projects can be completed efficiently, competitively, and in compliance with applicable regulations.

For these reasons, I recommend approval of TIPS membership as a procedural tool for future projects.

Thank you.

William Reiter



Recreation Director
City of David City

Council Member Keith Marvin made a motion to table joining The Interlocal Purchasing System (TIPS) pending review and recommendation from the City Attorneys. Council Member Bruce Meysenburg seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea. Yea: 5, Nay: 0, Absent: 1

City Council Proceedings

February 25, 2026

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Council Member Keith Marvin made a motion to approve and authorize the mayor to sign the Special Condition documents pertaining to the Awarded CDBG Grant. Council Member Bruce Meysenburg seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea. Yea: 5, Nay: 0, Absent: 1



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February 25, 2026

Nicole Bartels, CDBG Program Manager
Department of Economic Development
245 Fallbrook Blvd, Suite 002
Lincoln, Nebraska 68521

**Re: City of David City, NE
CDBG Award #25TD001**

Dear Program Manager Bartels,

I certify that the City of David City is a member of the Southeast Nebraska Development District (SEND) and has contracted with them to be the grant administrator for the CDBG Grant #25TD001 project. Initially, James Owens, Community Development Specialist, will be the SEND CDBG Certified Administrator assigned to this project, and will also serve as the recipient grant manager. Mr. Owens's certification is valid until December 31, 2026.

Any changes that are made in grant administrators will be reflected in the Subrecipient Information form within Euna. Please contact myself, or Mr. Owens, should you have any questions regarding this matter.

Sincerely,

A handwritten signature in blue ink that reads "Jessica Miller". The signature is written in a cursive, flowing style.

Jessica Miller
Mayor



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EXCESSIVE FORCE CERTIFICATION

On this 25th day of February, 2026, the Mayor, Jessica Miller, of the City of David City does hereby certify to the Nebraska Department of Economic Development that the City of David City has adopted and is enforcing:

- (i) A policy prohibiting the use of excessive force by law enforcement agencies within its jurisdiction against any individuals engaged in non-violent civil rights demonstrations; and
- (ii) A policy of enforcing applicable State and local laws against physically barring entrance to or exit from a facility or location that is the subject of such non-violent civil rights.



(Chief Elected Official Signature)



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CDBG INTERNAL CONTROL AND FINANCIAL MANAGEMENT FORM - NEW PROJECT

This form should be completed as part of the Special Conditions process, prior to any funds being drawn for the grant. Please answer the following questions to the best of your knowledge; should the internal control or financial management processes change throughout the course of the grant, please reach out to SENDD to have this form updated.

1. Internal Controls

- a) Identify the procedures and processes that will be used to review and approve invoices or billings for payment:

Contractor will provide invoice to City Clerk, City Clerk will mark when Invoice is received and present invoice to Department Head to approve the Invoice. The Invoice will then be placed into our Claims process to be double checked and processed to present to the Mayor and City Council. The Claim is then presented to the Mayor and City Council for approval. Once approved by the Mayor and City Council, a check will be issued and remitted to claimant.

- b) Identify all individuals who will be responsible for processing payments. Include full name and title:

Lori Matchett, City Clerk - Treasurer

Elizabeth Parker, Account Clerk

Rachel Kahnk, Account Clerk

2. Financial Management

- a) Will funds from the State of Nebraska be wired electronically ACH to the local government's designated account? If yes, please complete the attached W-9 & ACH Enrollment Form.
 Yes No
- b) Will accounts used to hold CDBG funds be interest-bearing? Please note that funds deposited into an interest-bearing account must be transferred immediately (1-3 business days) to a non-interest-bearing account in order to be in accordance with CDBG regulations.
 Yes No
- c) Advancement or Reimbursement: which of the following procedures does the Local Unit of Government plan to follow regarding paying invoices?
 The Local Unit of Government has enough funds on hand and plans to pay all invoices immediately, prior to requesting funds from DED (reimbursement).
 The Local Unit of Government plans to request funds from DED prior to paying invoices (advancement). Only Public Works and Public Planning projects are eligible for advancement. Please note that advanced funds (funds received from DED prior to paying invoices) must be disbursed to the vendor and cleared of the Local Unit of Government's account within 5 business days of receipt in order to be in accordance with CDBG regulations.
- d) Will financial records be reconciled?
 Yes No
i. Who will perform the reconciliation? Include full name and title:
Lori Matchett, City Clerk - Treasurer and Account Clerks Elizabeth Parker and Rachel Kahnk

ii. How often will the reconciliation occur?
Monthly

- e) Does the Local Unit of Government track expenses on an accrual-basis or cash-basis?
 Accrual-basis: the Local Unit of Government accounts for revenue and expenses when they are earned/accrued.
 Cash-basis: the Local Unit of Governments accounts for revenue and expenses when they are received/expended.
- f) Prior to implementing the project, does the Local Unit of Government have Program Income on hand?
 Yes No
i. If the answer is yes, please provide a copy of the Re-use Plan and Program Guidelines from the project generating Program Income.
ii. Will the Program Income be invested/applied to this project? _____
- g) Will this specific grant generate Program Income?
 Yes No
i. If yes, how will Program Income be generated? _____

3. Acknowledgment of Compliance with Federal Internal Control Standards

I, as the Chief Elected Official of City of David City (the recipient or subrecipient of Federal funds), acknowledge compliance with the following Federal Internal Control Standards, as established in 2 CFR 200.303 (eff. October 1, 2024):

The recipient and subrecipient must:

- (a) Establish, document, and maintain effective internal control over the Federal award that provides reasonable assurance that the recipient or subrecipient is managing the Federal award in compliance with Federal statutes, regulations, and the terms and conditions of the Federal award. These internal controls should align with the guidance in "Standards for Internal Control in the Federal Government" issued by the Comptroller General of the United States or the "Internal Control-Integrated Framework" issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).
- (b) Comply with the U.S. Constitution, Federal statutes, regulations, and the terms and conditions of the Federal award.
- (c) Evaluate and monitor the recipient's or subrecipient's compliance with statutes, regulations, and the terms and conditions of Federal awards.
- (d) Take prompt action when instances of noncompliance are identified.
- (e) Take reasonable cybersecurity and other measures to safeguard information including protected personally identifiable information (PII) and other types of information. This also includes information the Federal agency or pass-through entity designates as sensitive or other information the recipient or subrecipient considers sensitive and is consistent with applicable Federal, State, local, and tribal laws regarding privacy and responsibility over confidentiality.

Signed:



Chief Elected Official Signature

Jessica Miller, Mayor

Chief Elected Official Printed Name, Title



Date



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AUTHORIZATION TO REQUEST FUNDS

This document certifies that the individuals listed below are authorized to request program funds from the Nebraska Department of Economic Development and that the signatures appearing below are the true signatures of the aforementioned individuals.

PROGRAM SELECT EACH PROGRAM FOR WHICH ENTITY HAS FUNDING.	PROJECT/GRANT NUMBER(S) LIST ALL PROJECT/GRANT NUMBER(S) BELOW.
<input checked="" type="checkbox"/> Community Development Block Grant	25TD001, 22DTR004, 22TD001
<input type="checkbox"/> HOME Investment Partnerships Program	
<input type="checkbox"/> HOME-ARP	
<input type="checkbox"/> Middle Income Workforce Housing Fund	
<input type="checkbox"/> National Housing Trust Fund	
<input checked="" type="checkbox"/> Nebraska Affordable Housing Trust Fund	22TFHO16018
<input type="checkbox"/> Pandemic Relief Housing	
<input type="checkbox"/> Rural Community Recovery Program	
<input checked="" type="checkbox"/> Rural Workforce Housing Fund	23RCRP038

THIS FORM MUST APPEAR ON OFFICIAL LETTERHEAD OR BE NOTARIZED ON THE NEXT PAGE.
ALL SIGNATURES MUST BE WRITTEN IN **BLUE** INK.


SIGNATURE OF AUTHORIZED INDIVIDUAL 1

Jessica Miller
PRINTED NAME

Mayor
TITLE

jmiller@davidcityne.gov
EMAIL

2-25-26
DATE


SIGNATURE OF AUTHORIZED INDIVIDUAL 2

Lori Matchett
PRINTED NAME

City Clerk
TITLE

cityclerk@davidcityne.gov
EMAIL

DATE



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CITY OF David City, NEBRASKA PROCUREMENT PROCEDURES AND CODE OF CONDUCT

Procurement Procedures

The _____ City of David City _____ shall, in all cases of procurement for
(City/County/Village of Name of Local Government Unit)

professional services, construction services and materials needed for Community Development Block Grant (CDBG) programs, adhere to Code of Federal Regulation (2 CFR 200.320) and applicable State of Nebraska statutes. In all cases, the stricter requirement shall apply. The City/Village/County is **responsible for understanding and complying with all applicable federal and state requirements** as set forth in the original source documents. The following procedures *summarize* said laws and regulations.

A. Procurement shall be made by one of the following methods:

- 1) **Micro Purchase Procedures** [2 CFR 200.320(a)(1)] – This method will generally be used to obtain very small quantities of supplies. Procurement by micro-purchase is the acquisition of supplies or services, the aggregate dollar amount of which does not exceed the *micro-purchase threshold* as defined in see 2 CFR 200.1, as may be amended from time to time. To the maximum extent practicable, the non-Federal entity should distribute micro-purchases equitably among qualified suppliers. Micro-purchases may be awarded without soliciting competitive price or rate quotations if the non-Federal entity considers the price to be reasonable based on research, experience, purchase history or other information and documents it files accordingly. Purchase cards can be used for micro-purchases if procedures are documented and approved by the non-Federal entity.
- 2) **Simplified Acquisition (Small Purchase) Procedures** [2 CFR 200.320(a)(2)] – This method will generally be used to obtain small quantities of supplies. Procurement by small purchase is the acquisition of property or services, the aggregate dollar amount of which is higher than the micro-purchase threshold but does not exceed the *simplified acquisition threshold* as defined in 2 CFR 200.1. If small purchase procedures are used, price or rate quotations shall be obtained from an adequate number of qualified sources as determined appropriate by the non-Federal entity.
- 3) **Sealed Bids** [2 CFR 200.320(b)(1)] - This method will generally be used to obtain contractors for construction projects and for large quantities of goods or materials. Procurement by sealed bids is a procurement method in which bids are publicly solicited and a firm fixed-price contract (lump sum or unit price) is awarded to the responsible bidder whose bid, conforming with all the material terms and conditions of the invitation for bids, is the lowest in price.
- 4) **Proposals** [2 CFR 200.320(b)(2)] - This method will generally be used to obtain professional services. Procurement by proposal is a procurement method in which either a fixed price or cost-reimbursement type contract is awarded. Proposals are generally used when conditions are not



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appropriate for the use of sealed bids. This method has two sub-parts—the Request for Proposal and the Request for Qualifications.

4a. Request for Proposals – Requests for proposals must be publicized and identify all evaluation factors and their relative importance. Proposals must be solicited from an adequate number of qualified offerors. Any response to publicized requests for proposals must be considered to the maximum extent practical. The non-Federal entity must have a written method for conducting technical evaluations of the proposals received and making selections. Contracts must be awarded to the responsible offeror whose proposal is most advantageous to the non-Federal entity, with price and other factors considered.

4b. Request for Qualifications - The non-Federal entity may use competitive proposal procedures for qualifications-based procurement of architectural/engineering professional services whereby offerors' qualifications are evaluated and the most qualified offeror is selected, subject to negotiation of fair and reasonable compensation. The method, where price is not used as a selection factor, can only be used in procurement of architectural/engineering professional services. It cannot be used to purchase other types of services though architectural/engineering firms that are a potential source to perform the proposed effort.

- 5) **Non-Competitive Procurement** [2 CFR 200.320(c)] – This method will only be used after approval from the Department of Economic Development. When requesting permission to use this method, the non-Federal entity will have to show that another method of procurement was not feasible because: the item or service is available only from a single source; a public exigency or emergency will not permit a delay resulting from competitive solicitation; or after solicitation of a number of sources, competition is determined to be inadequate.
- B. **Cost and Price Analysis:** The Non-Federal entity must perform a cost or price analysis in connection with every procurement action, including contract modifications. The method and degree of analysis is dependent on the facts surrounding the particular procurement situation, but as a starting point, the non-Federal entity must make independent estimates before receiving bids or proposals [2 CFR 200.324(a)]. The cost plus a percentage of cost and percentage of construction cost methods of contracting must not be used [2 CFR 200.324(d)].
- C. **Records Retention:** The Non-Federal entity must maintain records sufficient to detail the history of procurement. These records will include, but are not necessarily limited to, the following: rationale for the method of procurement; selection of contract type; contractor selection or rejection; and the basis for the cost or price [2 CFR 200.318(i)].
- D. **Contract Provisions:** Contract provisions or conditions shall be included in all procurement contracts and subcontracts. See Appendix II to 2 CFR Part 200, Contract Provisions for Non-Federal Entity Contracts Under Federal Awards, as applicable.



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Code of Conduct

Pursuant to **2 CFR Part 200** and **24 CFR Part 570** _____ the City of David City _____ shall,
(City/County/Village of Name of Local Government Unit)
govern the performance of elected or appointed officials, employees, agents, and members of any board or commission engaged in the selection, award and administration of contracts supported by federal funds under the Community Development Block Grant (CDBG) program.

- I. The provisions and requirements of the *Conflicts of Interest, at subpart (d)* of the **Nebraska Political Accountability and Disclosure Act**, Sections 49-1493 through 49-14,104 of the Nebraska Revised Statutes, are hereby incorporated in this Code of Conduct by reference. The provisions and requirements of **2 CFR 200.112** are likewise incorporated by reference. The requirements of these Nebraska state statutes and federal regulations shall be strictly followed. In the event of any inconsistency or conflict between applicable state and federal requirements, the more stringent provision shall govern.
- II. No employee, officer, agent or board member of the municipality may participate in the selection, or in the award or administration of a contract supported by Federal funds if he or she has a real or apparent conflict of interest. Such a conflict would arise when the employee, officer, or agent; any member of his or her immediate family; his or her partner; or an organization which employs or is about to employ any of the above, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract [**2 CFR 200.318(c)(1)**].
- III. The officers, employees, agents or board members may neither solicit nor accept gratuities, favors, or anything of monetary value from contractors, potential contractors, or parties to subcontracts [**2 CFR 200.318(c)(1)**].
- IV. Violations of this Code of Conduct will invoke penalties and sanctions consistent with applicable Federal and State laws.

Adopted by _____ City Council _____ on _____ February 25, 2026 _____
(City Council, Village Board, etc.) (Date)



Chief Elected Official Signature

Jessica Miller, Mayor

Chief Elected Official Printed Name, Title

NEBRASKA DEPARTMENT OF ECONOMIC DEVELOPMENT

City of David City CDBG Subrecipient	25TD001 CDBG Number
490 E Street, P.O. Box 191, David City, NE Address	
David City City	NE 68632 State Zip Code
Lori Matchett Contact Person	(402) 367-3135 Telephone

FINANCIAL MANAGEMENT CERTIFICATION

Check "Yes" or "No" in the column to the left to indicate if your financial management system complies with these statements:

1. Does the financial management system provide for:

- | YES | NO | |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (a) proper recording and accounting for all CDBG receipts? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (b) control over and accountability for all funds, property, and other assets? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (c) records that identify the source and use of funds? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (d) the expenditure of CDBG funds within five days of the receipt of funds? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (e) the application of program income to the CDBG fund? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (f) the disbursing of program income prior to making additional drawdowns? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (g) accounting records that are supported by source documents? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (h) a comparison of actual expenditures with amounts budgeted for activities within the grant? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (i) audits to be conducted in accordance with 2 CFR Part 200, Subpart F? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (j) audits of non-profit subrecipients to be conducted in accordance with 2 CFR Part 200, Subpart F? |

2. Are the individuals who are responsible for the financial management of the CDBG:

- | YES | NO | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a) familiar with 2 CFR Part 200, Subpart E Treasury Circular 1075 (31 CFR Part 205)? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | (b) aware that failure to comply these regulations will result in audit findings and the repayment of ineligible costs to the Department of Economic Development? |

I certify that the above responses are an accurate indication of the status of the financial management system which will be used for the Community Development Block Grant Funds.


 SIGNATURE OF MAYOR/CHAIRPERSON

Jessica Miller
 TYPED NAME

2-25-26
 DATE

City Council Proceedings

February 25, 2026

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Reviewing the Nebraska Salary Survey with communities of similar size, Raiko is increasing responsibilities, including but not limited to grants, downtown revitalization, CDBG, and training for the city administrator role. The intention is to have Raiko trained to be the City Administrator. The Council recommended an increase in wages with the increase of responsibilities, and plans to re-evaluate his pay and the position's salary range at the annual review.

Council Member Kevin Woita made a motion to increase City Administrator Raiko Martinez pay to \$34.67 per hour. Council Member Keith Marvin seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea, Yea: 5, Nay: 0, Absent: 1

Council Member Rick Holland made a motion to adjourn at 7:50 p.m. Council Member Keith Marvin seconded the motion. The motion carried. Jeremy Abel: Absent, Jim Angell: Yea, Rick Holland: Yea, Keith Marvin: Yea, Bruce Meysenburg: Yea, Kevin Woita: Yea. Yea: 5, Nay: 0, Absent: 1

CERTIFICATION OF MINUTES

February 25, 2026

I, Lori Matchett, duly qualified and acting City Clerk for the City of David City, Nebraska, do hereby certify with regard to all proceedings of February 25, 2026; that all of the subjects included in the foregoing proceedings were contained in the agenda for the meeting, kept continually current and available for public inspection at the office of the City Clerk; that such subjects were contained in said agenda for at least twenty-four hours prior to said meeting; that the minutes of the meeting of the City Council of the City of David City, Nebraska, were in written form and available for public inspection within ten working days and prior to the next convened meeting of said body; that all news media requesting notification concerning meetings of said body were provided with advance notification of the time and place of said meeting and the subjects to be discussed at said meeting.

Lori Matchett, City Clerk

Check Approval List - Council

March 11, 2026

Page # 1

<u>Vendor Name</u>	<u>Invoice Description</u>	<u>Account Description</u>	<u>Amount</u>
GENERAL			
AMGL CPAS & ADVISORS	Service - Annuul Audit	AUDIT	\$2,750.00
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: OFFI	\$721.36
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES	\$8,253.50
BUTLER COUNTY REGISTER OF DEED	Lot Split - DC/Gratz	ATTORNEYS FEES	\$70.00
COLUMN SOFTWARE PBC	Publication Notices	PRINTING & PUBLISHI	\$185.15
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$1,275.78
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: ADMINISTR	\$1,410.86
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: MAYOR, CI	\$2,075.00
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$656.00
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$5,027.25
DAVID CITY UTILITIES	Utilities	UTILITIES	\$1,274.28
EAKES OFFICE SOLUTIONS	Copier Service	REPAIR & MAINT: OFFI	\$529.08
FIRST NATIONAL BANK OF OMAHA	Webhosting, Adobe Subscription, Supplies	MTGS, SCHOOL, TRAV	\$412.80
FIRST NATIONAL BANK OF OMAHA	Webhosting, Adobe Subscription, Supplies	SUBSCRIPTION FEES	\$99.99
FIRST NATIONAL BANK OF OMAHA	Webhosting, Adobe Subscription, Supplies	REPAIR & MAINT: OFFI	\$384.17
HOMETOWN LEASING	Lease Payment	CAPITAL OUTLAY- OFF	\$235.20
LEAGUE ASSN. OF RISK MANAGEMEN	City Administrator Association Dues	MTGS, SCHOOL, TRAV	\$218.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$14.65
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$29.44
RAIKO MARTINEZ	Mileage Reimbursement	MTGS, SCHOOL, TRAV	\$72.50
LORI MATCHETT	Mileage Reimbursement	MTGS, SCHOOL, TRAV	\$72.50
PAPER TIGER SHREDDING	Paper Tiger Shredding	MISCELLANEOUS	\$117.54
PETTY CASH	Certified Mail, Mileage	OFFICE SUPPLIES, PO	\$38.98
PITNEY BOWES	Postage Meter Lease Agreement	OFFICE SUPPLIES, PO	\$198.66
STAPLES	Supplies	OFFICE SUPPLIES, PO	\$38.88
T. NOVAK CONSTRUCTION	Service	CONTRACT LABOR	\$15,668.23
TIME MANAGEMENT SYSTEMS, INC.	Monthly Software Subscription & Support	SUBSCRIPTION FEES	\$96.75
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINTENAN	\$17.09
		Total GENERAL	\$41,943.64
BUILDING PERMIT FUND			
APPLIED CONNECTIVE TECHNOLOGIE	Service	MISCELLANEOUS	\$103.33
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: PART-TIME	\$6,118.75
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$305.67
WEX BANK	Fuel	FUEL	\$2.03
		Total BUILDING PERMIT FUND	\$6,529.78
CREATIVE DISTRICT			
BUTLER PUBLIC POWER DISTRICT	Electric Service - Airport, Creative District	UTILITIES	\$42.90
BUTLER PUBLIC POWER DISTRICT	Electric Service - Airport	UTILITIES	\$32.90
FIRST NATIONAL BANK OF OMAHA	Webhosting, Adobe Subscription, Supplies	MTGS, SCHOOL, TRAV	\$50.00
		Total CREATIVE DISTRICT	\$125.80
SOCIAL SECURITY FUND			
DAVID CITY PAYROLL ACCOUNT	Social Security Remittance	REMITTANCES TO IRS	\$6,834.11
		Total SOCIAL SECURITY FUND	\$6,834.11
TAX INCREMENT FINANC			
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES	\$936.00
MIDWEST HOUSING DEVELOPMENT F	Dana Point Development - TIF	DANA PT HOUSING RE	\$7,047.48
		Total TAX INCREMENT FINANC	\$7,983.48
STREET			
AKRS EQUIPMENT	Parts	REPAIR & MAINT: EQU	\$86.78
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: OFFI	\$176.33
CLINT BRANDENBURGH	Clothing Reimbursement	CLOTHING	\$470.75
BUTLER COUNTY LANDFILL INC.	C & D to Landfill	MISCELLANEOUS	\$42.01
BUTLER COUNTY WELDING	Parts	REPAIR & MAINT: EQU	\$98.75
DAVID CITY ACE HARDWARE	Parts, tools, supplies	SUPPLIES: SHOP & SM	\$34.17
DAVID CITY ACE HARDWARE	Parts, tools, supplies	TRAFFIC CONTROL: SI	\$14.56
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$20,032.78
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$45.21
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$1,240.07
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$1,047.36
DAVID CITY UTILITIES	Phone Services	UTILITIES	\$20.25
DIDIER'S GROCERY, INC.	Lysol, toilet paper	SUPPLIES: SHOP & SM	\$27.54
FRONTIER COOPERATIVE COMPANY	Tordon	TREE REMOVAL EXPE	\$120.00

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<u>Vendor Name</u>	<u>Invoice Description</u>	<u>Account Description</u>	<u>Amount</u>
STREET (Continued)			
GEHRING CONSTRUCTION & READY JACKSON SERVICES, INC.	2024 Nebraska Street Extension - Applicati Supplies	CAP. IMP.: REPAIR/MAI SUPPLIES: SHOP & SM	\$16,545.51 \$30.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$11.72
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$26.55
MARTIN MARIETTA MATERIALS	Parts	MATERIALS: ASPHALT	\$929.64
MIDWEST SERVICE & SALES CO.	Supplies	REPAIR & MAINT: EQU	\$52.35
MIDWEST SERVICE & SALES CO.	Supplies	CULVERTS	\$3,107.50
MURPHY TRACTOR & EQUIPMENT CO	Services	REPAIR & MAINT: EQU	\$2,496.06
NEBRASKA DEPT. OF REVENUE	Sales Tax - Januray 2026	SALES TAX REMITTAN	\$26.32
NORTHSIDE INC.	Fuel, Services	TIRES & TIRE REPAIR	\$2,795.88
NORTHSIDE INC.	Fuel, Services	FUEL: SNOW REMOVA	\$2,622.78
NSG LOGISTICS, LLC	Road Salt	SNOW & ICE CHEMICA	\$1,923.75
ALEX PALIK	Clothing Reimbursement	CLOTHING	\$299.57
REHMER AUTO PARTS	Supplies	REPAIR & MAINT: EQU	\$165.78
REHMER AUTO PARTS	Supplies	SUPPLIES: SHOP & SM	\$86.99
RERUCHA AG AND AUTO SUPPLY	Parts and Supplies	REPAIR & MAINT: EQU	\$119.08
SACK LUMBER COMPANY	Supplies	TRAFFIC CONTROL: SI	\$29.98
SUMMIT FIRE PROTECTION	Annual Fire Extinguisher Inspections	REPAIR & MAINT: EQU	\$203.10
VERIZON WIRELESS	Wireless Service	UTILITIES	\$40.01
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINTENAN	\$66.92
WEX BANK	Fuel	FUEL	\$413.07
WINDSTREAM	Telephone Service	UTILITIES	\$65.66
NICK ZRUST	Boots	CLOTHING	<u>\$200.00</u>
		Total STREET	\$55,714.78
AIRPORT			
AKRS EQUIPMENT	Parts	REPAIR & MAINT: EQU	\$3,848.02
BUTLER PUBLIC POWER DISTRICT	Electric Service - Airport, Creative District	UTILITIES	\$805.15
BUTLER PUBLIC POWER DISTRICT	Electric Service - Airport	UTILITIES	\$965.38
CITY OF DAVID CITY	Credit Card Charges	SUBSCRIPTION FEES	\$26.82
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$23.96
DAVID CITY WATER DEPARTMENT	Water Service - Feb 19, 2026	UTILITIES	\$28.50
DC DOOR COMPANY	Airport Door - Adjust Photo Eyes	SAFETY EXPENSES	\$90.00
MURPHY TRACTOR & EQUIPMENT CO	Services	REPAIR & MAINT: EQU	\$1,181.16
NORTHSIDE INC.	Fuel, Services	FUEL	\$319.96
SUMMIT FIRE PROTECTION	Annual Fire Extinguisher Inspections	SAFETY EXPENSES	\$348.05
U. S. CELLULAR	Service - Phone and Data Service	UTILITIES	<u>\$68.72</u>
		Total AIRPORT	\$7,705.72
POLICE DEPARTMENT			
AMERICAN EXPRESS	Supplies, books, subscription	SUBSCRIPTION FEES	\$60.00
AMERICAN EXPRESS	Supplies, books, subscription	OFFICE SUPPLIES, PO	\$159.10
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: OFFI	\$328.28
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES	\$516.00
BROMM LINDAHL FREEMAN-CADDY &	Attorney Fees	ATTORNEYS FEES	\$752.50
CENTRAL COMMUNITY COLLEGE	CPR Certification	SUBSCRIPTION FEES	\$23.00
DAVID CITY ACE HARDWARE	Parts, tools, supplies	MISCELLANEOUS	\$164.96
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$33,874.44
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$2,447.06
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: CLERICAL	\$3,118.31
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$1,175.36
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$7,226.68
DAVID CITY UTILITIES	Phone Services	UTILITIES	\$48.75
HARTMAN AUTO REPAIR	2019 Ford Police Vehicle Maintenance	VEHICLE - REPAIR & M	\$1,482.72
IDEMIA IDENTITY & SECURITY USA LL	Fingerprint Scanner	SUBSCRIPTION FEES	\$2,750.00
JONESGROUP	Bond Renewals	SUBSCRIPTION FEES	\$300.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$17.58
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$44.50
NANCY A. KRENK LLC	Service	CONTRACT LABOR	\$80.00
NEBRASKA STATE PATROL	Licenses	SUBSCRIPTION FEES	\$261.00
NEBRASKA STATE PATROL	Licenses	SUBSCRIPTION FEES	\$3,150.00
NORTHSIDE INC.	Fuel, Services	REPAIR & MAINT: EQU	\$10.00
REHMER AUTO PARTS	Supplies	VEHICLE - REPAIR & M	\$117.81
TRITECH SOFTWARE SYSTMES	Annual Subscription	SUBSCRIPTION FEES	\$3,404.64
VERIZON WIRELESS	Wireless Service	UTILITIES	\$504.39
WEX BANK	Fuel	FUEL	<u>\$1,707.83</u>
		Total POLICE DEPARTMENT	\$63,724.91

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SWIMMING POOL			
BLACK HILLS ENERGY	Natural Gas Service	UTILITIES	\$603.96
GRAINGER	Chlorine & Filters	CHEMICALS	\$444.55
WINDSTREAM	Telephone Service	UTILITIES	<u>\$147.18</u>
		Total SWIMMING POOL	\$1,195.69
PARK			
DAVID CITY ACE HARDWARE	Parts, tools, supplies	REPAIR & MAINT: EQU	\$79.99
DAVID CITY ACE HARDWARE	Parts, tools, supplies	REPAIR & MAINT - BLD	\$41.38
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$10,479.30
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$208.74
DAVID CITY UTILITIES	Phone Services	UTILITIES	\$40.25
SACK LUMBER COMPANY	Supplies	REPAIR & MAINT - BLD	\$16.99
STEAGER LAWN SERVICE	Trim trees in park and walking trails	SUBSCRIPTION FEES	\$3,682.50
STEAGER LAWN SERVICE	Mow and Trim Parks - 1st payment	SUBSCRIPTION FEES	\$22,791.67
VERIZON WIRELESS	Wireless Service	UTILITIES	\$54.00
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINT - BLD	\$66.93
WEX BANK	Fuel	FUEL	<u>\$113.07</u>
		Total PARK	\$37,574.82
AUDITORIUM			
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: EQU	\$102.20
DAVID CITY ACE HARDWARE	Parts, tools, supplies	REPAIR & MAINTENAN	\$93.73
DAVID CITY ELECTRIC DEPT.	Electric Service	UTILITIES	\$2,513.70
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$2,802.45
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$17.66
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$501.55
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$1,571.04
DAVID CITY WATER DEPARTMENT	Water Service - Feb 19, 2026	UTILITIES	\$233.34
JACKSON SERVICES, INC.	Supplies	REPAIR & MAINTENAN	\$64.34
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$7.76
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$17.60
MID-AMERICAN RESEARCH CHEMICA	Cleaning Supplies	REPAIR & MAINT - BLD	\$555.00
NEBRASKA DEPT. OF REVENUE	Sales Tax - Januray 2026	SALES TAX REMITTAN	\$14.26
PLUNKETTS PEST CONTROL	General Pest Control	REPAIR & MAINTENAN	\$72.22
REHMER AUTO PARTS	Supplies	REPAIR & MAINTENAN	\$19.11
STAPLES	Supplies	OFFICE SUPPLIES, PO	\$77.98
SUMMIT FIRE PROTECTION	Annual Fire Extinguisher Inspections	REPAIR & MAINTENAN	\$109.75
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINTENAN	<u>\$66.92</u>
		Total AUDITORIUM	\$8,840.61
RECREATION PROGRAM			
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: EQU	\$15.13
COLUMN SOFTWARE PBC	Publication Notices	PRINTING & PUBLISHI	\$25.46
DAVID CITY ACE HARDWARE	Parts, tools, supplies	REPAIR & MAINT - BLD	\$21.98
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$4,967.55
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$33.62
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: PART-TIME	\$264.16
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$310.69
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$1,675.75
DAVID CITY UTILITIES	Utilities	UTILITIES	\$176.08
DAVID CITY UTILITIES	Utilities	UTILITIES	\$456.80
JEO CONSULTING GROUP	David City Ballfield Restroom Addition	CONTRACT LABOR	\$2,000.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$2.93
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$6.65
MUSCO SPORTS LIGHTING, INC.	Lighting for Field 3	REPAIR & MAINT - BLD	\$32,862.60
PETTY CASH	Certified Mail, Mileage	MTGS, SCHOOL, TRAV	\$6.23
WILLIAM REITER	Mileage Reimbursement	MTGS, SCHOOL, TRAV	\$100.92
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINTENAN	\$62.05
WEX BANK	Fuel	FUEL	<u>\$2.03</u>
		Total RECREATION PROGRAM	\$42,990.63
RV CAMPGROUND			
DAVID CITY ELECTRIC DEPT.	Electric Service	UTILITIES	\$238.00
NEBRASKA DEPT. OF REVENUE	Sales Tax - Januray 2026	SALES TAX REMITTAN	\$102.01
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINT - BLD	<u>\$133.85</u>
		Total RV CAMPGROUND	\$473.86
LIBRARY			
AMERICAN EXPRESS	Supplies, books, subscription	REPAIR & MAINTENAN	\$223.56
AMERICAN EXPRESS	Supplies, books, subscription	REPAIR & MAINT: EQU	\$31.97

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<u>Vendor Name</u>	<u>Invoice Description</u>	<u>Account Description</u>	<u>Amount</u>
LIBRARY (Continued)			
AMERICAN EXPRESS	Supplies, books, subscription	OFFICE SUPPLIES, PO	\$27.50
AMERICAN EXPRESS	Supplies, books, subscription	BOOKS, MAGAZINES,	\$627.61
APPLIED CONNECTIVE TECHNOLOGIE	Service	REPAIR & MAINT: EQU	\$95.00
BLACK HILLS ENERGY	Natural Gas Service	UTILITIES	\$90.68
CHARTER COMMUNICATIONS	Digital Phone and Roadrunner	UTILITIES	\$110.00
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: PART-TIME	\$9,228.84
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$330.29
DAVID CITY UTILITIES	Phone Services	UTILITIES	\$40.00
EAKES OFFICE SOLUTIONS	Copier Service	PRINTING & PUBLISHI	\$410.24
HOMETOWN LEASING	Lease Payment	REPAIR & MAINT: EQU	\$59.50
ORIENTAL TRADING COMPANY	Supplies	PROGRAMS, ETC.	\$65.90
STEAGER LAWN SERVICE	Snow Removal	REPAIR & MAINTENAN	\$175.00
SUMMIT FIRE PROTECTION	Annual Fire Extinguisher Inspections	REPAIR & MAINTENAN	\$40.00
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINTENAN	<u>\$17.09</u>
		Total LIBRARY	\$11,573.18
SERVICE DEPOSITS			
JACQUELINE GERTSCH	Service Deposit Refund	REFUNDS (WHEN MAI	<u>\$202.99</u>
		Total SERVICE DEPOSITS	\$202.99
ELECTRIC PLANT			
BLACK HILLS ENERGY	Natural Gas Service	GENERATING GAS	\$135.45
CLEARFLY	VOIP Phone Services	UTILITIES	\$49.75
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	REPAIR & MAINT: EQU	\$154.78
DAVID CITY WATER DEPT.	Water Service	UTILITIES	\$53.75
FIRST NATIONAL BANK OF OMAHA	Training Course, Parts	DUES, MTGS, MILEAG	\$275.00
FIRST NATIONAL BANK OF OMAHA	Training Course, Parts	REPAIR & MAINT: EQU	\$516.91
HAROLD K. SCHOLZ	Service	REPAIR & MAINT: EQU	\$2,004.50
JACKSON SERVICES, INC.	Wet Mops, Mops, Mats, Shop Towels, Hand	OFFICE SUPPLIES	\$79.63
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	REPAIR & MAINT: EQU	\$1.61
SUMMIT FIRE PROTECTION	Service - Annual Inspection	REPAIR & MAINT - BLD	\$409.80
WINDSTREAM	Telephone Service	UTILITIES	<u>\$437.66</u>
		Total ELECTRIC PLANT	\$4,118.84
ELECTRIC SYSTEM			
AMERICAN EXPRESS	Arlo Technologies	SUBSCRIPTION FEES	\$21.49
AMERICAN PUBLIC POWER ASSN.	Membership Dues	DUES, MTGS, MILEAG	\$2,332.89
AMERICAN PUBLIC POWER ASSN.	Membership Dues	DUES, MTGS, MILEAG	\$489.91
AMGL CPAS & ADVISORS	Service - Annual Audit	AUDIT	\$2,750.00
APPLIED CONNECTIVE TECHNOLOGIE	Monthly Maintenance and IT Services	REPAIR & MAINTENAC	\$1,159.82
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES & L	\$5,836.50
BUTLER PUBLIC POWER DISTRICT	Subtransmission line and transformation ch	POWER PURCHASES:	\$31,162.12
CLEARFLY	VOIP Phone Services	UTILITIES	\$211.38
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	SHOP & SMALL TOOLS	\$19.49
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$43,715.65
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$2,987.92
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: ADMINIST	\$2,821.71
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: CLERICAL	\$7,896.58
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: MAYOR, CI	\$830.00
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$2,342.09
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: INSURANC	\$88.75
DAVID CITY PAYROLL ACCOUNT	Social Security Remittance	SOCIAL SECURITY RE	\$4,287.53
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$4,765.48
DAVID CITY UTILITIES	Credit Card Charges	SUBSCRIPTION FEES	\$748.04
DIDIER'S GROCERY, INC.	Supplies	SHOP & SMALL TOOLS	\$42.88
DUTTON-LAINSON COMPANY	Parts	REPAIR & MAINTENAC	\$1,249.15
ELSTER SOLUTIONS, LLC	2026 Annual SMA Renewal	REPAIR & MAINTENAC	\$1,819.65
GENERAL FUND	In Lieu of Tax and Occupation Fees - Febru	IN-LIEU-OF-TAX REMIT	\$12,723.54
GENERAL FUND	In Lieu of Tax and Occupation Fees - Febru	OCCUPATION FEE TO	\$17,559.03
JEO CONSULTING GROUP, INC	Services	CAP. IMPROVE - SYST	\$3,326.25
LA QUINTA INN & SUITES	Lodging - Novak, Smith	DUES, MTGS, MILEAG	\$440.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$20.51
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$59.24
NANCY A. KRENK LLC	Service	CONTRACT LABOR	\$770.00
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	REPAIR & MAINT: EQU	\$0.52
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	SALES TAX REMITTAN	\$16,982.90
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	OFFICE SUPPLIES	\$6.81
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	SHOP & SMALL TOOLS	\$1.47

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ELECTRIC SYSTEM (Continued)			
NEBRASKA PUBLIC POWER DISTRICT	Service for January, 2026	POWER PURCHASES:	\$432,718.18
NEBRASKA PUBLIC POWER DISTRICT	Service for February 2026	POWER PURCHASES:	\$401,350.90
ONE CALL CONCEPTS, INC.	Locate Requests	SUBSCRIPTION FEES	\$9.00
PER MAR SECURITY SERVICES	Service - Hosting Access Control, Interactiv	CONTRACT LABOR	\$2,563.88
PETTY CASH	Reimbursement	DUES, MTGS, MILEAG	\$96.90
PETTY CASH	Reimbursement	MISCELLANEOUS	\$10.00
PLUNKETTS PEST CONTROL	Pest Control	REPAIR & MAINT - BLD	\$98.55
POSTMASTER		OFFICE SUPPLIES	\$195.30
REGULATORY COMPLIANCE SERVICE	Annual Retainer - Telephone and Managem	REPAIR & MAINT: PC	\$395.00
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	SHOP & SMALL TOOLS	\$75.25
SIEMENS INDUSTRY, INC.	Replacement Breakers	CAP. IMPROVE - SYST	\$103,570.88
STAPLES	Toner, Ink	AUDIT	\$580.59
STEAGER LAWN SERVICE	Service	CONTRACT LABOR	\$200.00
SUMMIT FIRE PROTECTION	Service - Annual Inspection	SAFETY EXPENSES	\$196.25
TIME MANAGEMENT SYSTEMS, INC.	Monthly Software Subscription & Support	SUBSCRIPTION FEES	\$32.26
U.S. POSTAL SERVICE	Postage for postage meter	OFFICE SUPPLIES	\$333.34
VERIZON WIRELESS	Wireless Phone Service	UTILITIES	\$307.12
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINT - BLD	\$66.93
WESTERN AREA POWER AGENCY	Electric Service for January 2026	POWER PURCHASES:	\$18,501.87
WESTERN AREA POWER AGENCY	Electric Service for February 2026	POWER PURCHASES:	\$15,196.83
WEX BANK	Fuel	VEHICLES: REPAIR &	\$517.92
WINDSTREAM	Telephone Service	UTILITIES	\$939.78
		Total ELECTRIC SYSTEM	\$1,147,426.03
WATER SYSTEM			
AMGL CPAS & ADVISORS	Service - Annual Audit	AUDIT	\$2,750.00
APPLIED CONNECTIVE TECHNOLOGIE	Monthly Maintenance and IT Services	REPAIR & MAINT: EQU	\$504.86
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES & L	\$1,925.00
BLACK HILLS ENERGY	Natural Gas Service	UTILITIES	\$576.45
BUTLER COUNTY WELDING	Parts	SHOP & SMALL TOOLS	\$39.21
CINTAS	Service - First Aid Maintenance	SAFETY EXPENSES	\$199.96
CLEARFLY	VOIP Phone Services	UTILITIES	\$74.38
DALE'S FOOD PRIDE	Supplies	LAB SUPPLIES	\$13.17
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	REPAIR & MAINT - BLD	\$71.94
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	REPAIR & MAINT: EQU	\$20.12
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	OFFICE SUPPLIES	\$23.64
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	SHOP & SMALL TOOLS	\$106.37
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	PIPES, VALVES, FITTIN	\$5.38
DAVID CITY ELECTRIC DEPT.	Electric Service	UTILITIES	\$11,821.44
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$33,120.86
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$3,603.95
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: ADMINIST	\$1,410.85
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: CLERICAL	\$4,747.79
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: MAYOR, CI	\$622.50
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$845.06
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	GROUP INSURANCE	\$4,675.00
DAVID CITY PAYROLL ACCOUNT	Social Security Remittance	SOCIAL SECURITY RE	\$3,127.72
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$7,017.23
DAVID CITY UTILITIES	Credit Card Charges	SUBSCRIPTION FEES	\$748.04
DC DOOR COMPANY	Door and Opener Installation	CAP IMPROVE: LAND &	\$5,529.00
DIVERSIFIED SAFETY & COMPLIANCE	Pre-Employment Testing - Hawk	SAFETY EXPENSES	\$75.00
ENDRESS + HAUSER	Cleaner CY800 - Hardness Analyzer Clean	LAB SUPPLIES	\$214.28
GENERAL FUND	In Lieu of Tax and Occupation Fees - Febru	OCCUPATION FEE TO	\$3,251.52
HAWKINS, INC.	Chemicals	CHEMICALS	\$17,684.30
JACKSON SERVICES, INC.	Wet Mops, Mops, Mats, Shop Towels, Hand	OFFICE SUPPLIES	\$151.81
JEO CONSULTING GROUP, INC	Services	CAP. IMP.: ENGINEERI	\$2,167.50
JEO CONSULTING GROUP, INC	Services	CAP. IMP.: ENGINEERI	\$131.25
JEO CONSULTING GROUP, INC	Services	CAP. IMP.: ENGINEERI	\$31,830.00
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$13.62
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$38.52
LINCOLN WINWATER WORKS	Supplies and Parts	SAFETY EXPENSES	\$49.39
LINCOLN WINWATER WORKS	Supplies and Parts	REPAIR & MAINT: EQU	\$75.25
LINCOLN WINWATER WORKS	Supplies and Parts	LAB SUPPLIES	\$1,105.83
LINCOLN WINWATER WORKS	Supplies and Parts	SHOP & SMALL TOOLS	\$99.98
LINCOLN WINWATER WORKS	Supplies and Parts	PIPES, VALVES, FITTIN	\$660.03
MENARDS - COLUMBUS HARDWARE	Supplies	PIPES, VALVES, FITTIN	\$63.85

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<u>Vendor Name</u>	<u>Invoice Description</u>	<u>Account Description</u>	<u>Amount</u>
WATER SYSTEM (Continued)			
MIDWEST LABORATORIES, INC.	supplies for testing	LABORATORY FEES	\$885.60
MIDWEST SERVICE & SALES CO.	Snow Plow Remote	REPAIR & MAINT: EQU	\$610.00
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	SAFETY EXPENSES	\$17.44
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	REPAIR & MAINT - BLD	\$202.68
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	REPAIR & MAINT: EQU	\$125.52
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	REPAIR & MAINTENAC	\$5.70
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	SALES TAX REMITTAN	\$1,022.42
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	OFFICE SUPPLIES	\$4.95
NEBRASKA PUBLIC HEALTH ENVIRON	Tests	LABORATORY FEES	\$125.00
ONE CALL CONCEPTS, INC.	Locate Requests	SUBSCRIPTION FEES	\$9.00
POSTMASTER		OFFICE SUPPLIES	\$195.30
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	FUEL, OIL, GAS	\$382.45
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	VEHICLES: REPAIR &	\$371.26
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	REPAIR & MAINT: EQU	\$220.15
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	SHOP & SMALL TOOLS	\$75.21
SACK LUMBER COMPANY	Supplies, Parts, Tools	SHOP & SMALL TOOLS	\$40.83
SACK LUMBER COMPANY	Supplies, Parts, Tools	CAP IMPROVE: LAND &	\$372.92
SUMMIT FIRE PROTECTION	Service - Annual Inspection	SAFETY EXPENSES	\$240.85
TIME MANAGEMENT SYSTEMS, INC.	Monthly Software Subscription & Support	SUBSCRIPTION FEES	\$32.25
U & I SANITATION, LLC	Rolloff	CAP IMPROVE: LAND &	\$198.67
U.S. POSTAL SERVICE	Postage for postage meter	OFFICE SUPPLIES	\$333.33
USA BLUE BOOK	Replacement Sample Cells for Pocket Colo	LAB SUPPLIES	\$101.63
VELOCITY CONSTRUCTORS INC.	SRF Project No. D311686 - 2022 Water Tre	CAP. IMPROVE: EQUIP	\$50,000.00
VERIZON WIRELESS	Wireless Phone Service	UTILITIES	\$225.45
VERMEER HIGH PLAINS	Parts	REPAIR & MAINT: EQU	\$964.74
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINT - BLD	\$53.51
WEX BANK	Fuel	FUEL, OIL, GAS	\$450.57
WINDSTREAM	Service - Data & Internet	UTILITIES	\$857.67
WINDSTREAM	Telephone Service	UTILITIES	\$447.88
WRIGHT-WAY DRAIN & SEWER	Service	REPAIR & MAINT - BLD	\$300.00
		Total WATER SYSTEM	\$200,065.03
SEWER SYSTEM			
AMGL CPAS & ADVISORS	Service - Annual Audit	AUDIT	\$2,750.00
APPLIED CONNECTIVE TECHNOLOGIE	Monthly Maintenance and IT Services	REPAIR & MAINT: EQU	\$454.21
BAIRD HOLM LLP	Attorney Fees	ATTORNEYS FEES & L	\$8,293.50
CINTAS	Service - First Aid Maintenance	SAFETY EXPENSES	\$113.59
CLEARFLY	VOIP Phone Services	UTILITIES	\$40.25
DALE'S FOOD PRIDE	Supplies	OFFICE SUPPLIES	\$1.80
DAVID CITY ACE HARDWARE	Supplies, Parts, and Small Tools	SHOP & SMALL TOOLS	\$26.97
DAVID CITY ELECTRIC DEPT.	Electric Service	UTILITIES	\$7,523.72
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES & WAGES: F	\$10,074.33
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: OVERTIME	\$462.41
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: ADMINIST	\$1,410.85
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: CLERICAL	\$4,745.74
DAVID CITY PAYROLL ACCOUNT	Employee Payroll from 1/24/2026 to 2/23/20	SALARIES: MAYOR, CI	\$622.50
DAVID CITY PAYROLL ACCOUNT	Retirement - 401 a Portion	RETIREMENT PLAN	\$253.71
DAVID CITY PAYROLL ACCOUNT	Social Security Remittance	SOCIAL SECURITY RE	\$1,261.23
DAVID CITY PAYROLL ACCOUNT	Health Insurance	GROUP INSURANCE	\$1,989.98
DAVID CITY UTILITIES	Credit Card Charges	SUBSCRIPTION FEES	\$748.05
GENERAL FUND	In Lieu of Tax and Occupation Fees - Febru	OCCUPATION FEE TO	\$2,440.33
HTM SALES INC	Parts	REPAIR & MAINTENAC	\$3,205.00
HYDRO OPTIMIZATION & AUTOMATIO	Lift Station Controls Upgrade - 25% Billing	CAP. IMPROVE - SYST	\$20,474.75
JACKSON SERVICES, INC.	Wet Mops, Mops, Mats, Shop Towels, Hand	OFFICE SUPPLIES	\$52.31
JEO CONSULTING GROUP, INC	Services	CAP. IMP.: ENGINEERI	\$20,977.50
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	GROUP INSURANCE	\$5.86
LINCOLN NATIONAL LIFE INSURANCE	Employee Life Insurance and LTD Insuranc	DISABILITY INSURANC	\$13.43
MIDWEST LABORATORIES, INC.	supplies for testing	LABORATORY FEES	\$1,158.74
NEBRASKA DEPT. OF REVENUE	Sales & Use Tax - January 2026	SALES TAX REMITTAN	\$5,965.68
PER MAR SECURITY SERVICES	Service - Hosting Access Control, Interactiv	SAFETY EXPENSES	\$3,162.00
PLUNKETTS PEST CONTROL	Pest Control	REPAIR & MAINT - BLD	\$225.00
RERUCHA AG & AUTO SUPPLY	Parts, Small Tools, Supplies	REPAIR & MAINT: EQU	\$157.01
SACK LUMBER COMPANY	Supplies, Parts, Tools	OFFICE SUPPLIES	\$16.89
SUMMIT FIRE PROTECTION	Service - Annual Inspection	SAFETY EXPENSES	\$71.00
TIME MANAGEMENT SYSTEMS, INC.	Monthly Software Subscription & Support	SUBSCRIPTION FEES	\$32.24

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<u>Vendor Name</u>	<u>Invoice Description</u>	<u>Account Description</u>	<u>Amount</u>
SEWER SYSTEM (Continued)			
U & I SANITATION, LLC	Rolloff	CAP IMPROVE: LAND &	\$198.67
U.S. POSTAL SERVICE	Postage for postage meter	OFFICE SUPPLIES	\$333.33
VERIZON WIRELESS	Wireless Phone Service	UTILITIES	\$40.02
WASTE CONNECTIONS OF NE	Garbage Service	REPAIR & MAINT - BLD	\$117.80
WEX BANK	Fuel	FUEL, OIL, GAS	\$263.68
WINDSTREAM	Service - Data & Internet	UTILITIES	\$314.11
WINDSTREAM	Telephone Service	UTILITIES	<u>\$319.43</u>
		Total SEWER SYSTEM	\$100,317.62

Total Claims Allowed: \$1,745,341.52

Steager Lawn Service L.L.C

Invoice

3711 N Rd
David City NE 68632

Date	Invoice #
1/29/2026	23711

Bill To
City of David City 490 E Street PO BOX 191 David City, NE 68632

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
1	Mow and trim parks first payment due April 1st	22,791.67	22,791.67
		Total	\$22,791.67

42-2215
gmv
AZ

Steager Lawn Service L.L.C

Invoice

3711 N Rd
David City NE 68632

Date	Invoice #
1/8/2026	23708

Bill To
City of David City 490 E Street PO BOX 191 David City, NE 68632

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
8	trim trees along walking trail	65.00	520.00
4	handheld power equip	20.00	80.00
2.5	Mini Ex with operator	125.00	312.50
2	Mini dump truck	75.00	150.00
42-2215 JM A			
		Total	\$1,062.50

Steager Lawn Service L.L.C

Invoice

3711 N Rd
David City NE 68632

Date	Invoice #
1/8/2026	23709

Bill To
City of David City 490 E Street PO BOX 191 David City, NE 68632

P.O. No.	Terms	Project

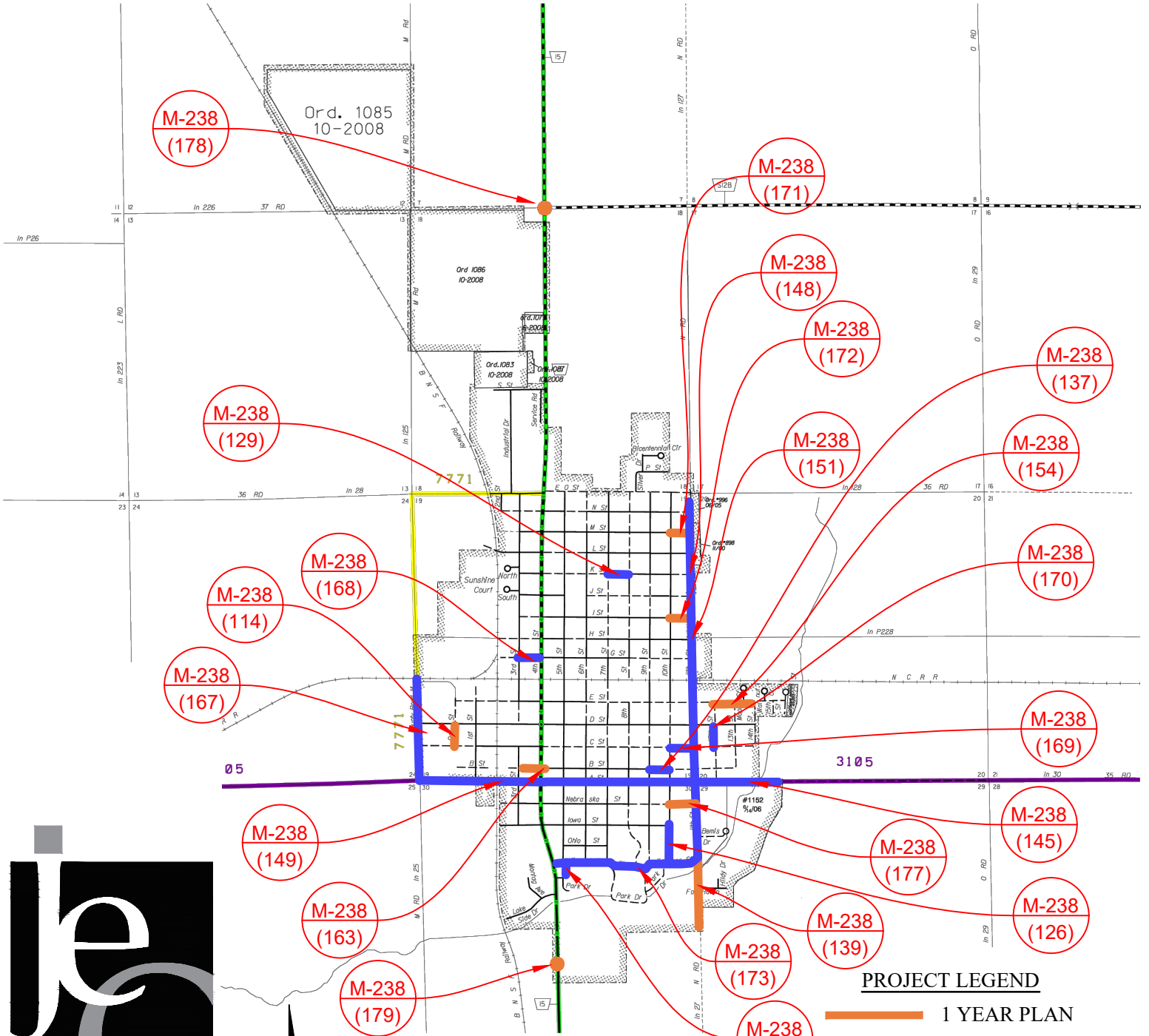
Quantity	Description	Rate	Amount
36	trim trees in park	65.00	2,340.00
14	handheld power equip	20.00	280.00
42-2215 JW R			
		Total	\$2,620.00

Completed Projects (FY 24/25)				City of David City		
Project #	Street Name	Start	End	Description of Work	Length (mi)	Final Cost
M-238(175)	Scout Lane	Hwy 15	Monarch Dr.	Concrete Street Paving	0.07	\$ 150,000
M-238(176)	Northland Sub.			Concrete Street Paving, Drainage Improvements	1	\$ 1,500,000

One Year Plan - Fiscal Year 2025/2026 Projects (October 1st to September 30th)					City of David City	
Project #	Street Name	Start	End	Description of Work	Length (mi)	Est. Cost
M-238(114)	Oak Street	"C" Street	"D" Street	Existing Asphalt Street to 27' Wide 6" Concrete Street	0.08	\$ 130,000
M-238(139)	11th Street	Kansas St.	Cemetery	Existing Gravel Street to 27' Wide 6" Concrete Street (NIC Bridge)	0.48	\$ 325,000
M-238(154)	"E" Street	12th St.	14th St.	Existing Asphalt Street to 27' Wide 6" Concrete Street	0.22	\$ 350,000
M-238(163)	"B" Street	3rd St.	4th St.	Existing Asphalt Street to 27' Wide 6" Concrete Street	0.08	\$ 125,000
M-238(171)	"M" Street	10th St.	11th St.	Existing Asphalt Street to 28' Wide 6" Concrete Street	0.08	\$ 135,000
M-238(172)	"I" Street	10th St.	11th St.	Existing Asphalt Street to 28' Wide 6" Concrete Street	0.08	\$ 135,000
M-238(177)	Nebraska St.	10th St.	11th St.	Existing Gravel Street to Concrete Pavement and Drainage	0.04	\$ 145,000
M-238(178)	Hwy 15	Cooperative Way		Intersection, Concrete Paving, Drainage Improvements	0.25	\$ 2,500,000
M-238(179)	Scout Lane	Hwy 15		Intersection Improvements, Concrete	0.25	\$ 1,500,000

Six Year Plan - Fiscal Year 2026/2027 to 2030/2031 Projects (October 1st to September 30th)					City of David City	
Project #	Street Name	Start	End	Description of Work	Length (mi)	Est. Cost
M-238(125)	5th Street	Kansas St.	Park Trail	Existing Gravel Street to 27' Wide 6" Concrete Street	0.5	\$ 175,000
M-238(126)	10th Street	Kansas St.	Iowa St.	Existing Grave Road to 27' Wide 6" Concrete Street	0.14	\$ 250,000
M-238(129)	"K" Street	7th St.	8th St.	Existing Asphalt Street to 28' Wide 6" Concrete Street	0.07	\$ 115,000
M-238(137)	"B" Street	9th St.	10th St.	Existing Asphalt Street to 27' Wide 6" Concrete Street	0.07	\$ 115,000
M-238(145)	"A" Street	Hwy 15	East Corporate Limits	Existing Bituminous Street with Asphalt Overlay	1.05	\$ 350,000
M-238(148)	11th Street	"O" St.	"H" St.	Existing Asphalt Street to 32' Wide 8" Concrete Street	0.5	\$ 1,500,000
M-238(149)	"A" Street	Hwy 15	County Road M	Existing Asphalt Street to 27' Wide 8" Concrete Street	0.42	\$ 850,000
M-238(151)	11th Street	"H" St.	"A" St.	Existing Asphalt Street to 32' Wide 8" Concrete Street	0.82	\$ 2,400,000
M-238(167)	"M" Road	"A" St.	CNRR	Existing Asphalt Street to 27' Wide 6" Concrete Street	0.37	\$ 700,000
M-238(168)	"G" Street	3rd St.	4th St.	Existing Asphalt Street to 24' Wide 6" Concrete Street	0.07	\$ 115,000
M-238(169)	"C" Street	10th St.	10th St.	Existing Asphalt Street to 24' Wide 6" Concrete Street	0.07	\$ 115,000
M-238(170)	12th Street	"C" St.	"D" St.	Existing Asphalt Street to 24' Wide 6" Concrete Street	0.07	\$ 115,000
M-238(173)	Kansas Street	4th St.	11th St.	Existing Asphalt Street to 28' Wide 6" Concrete Street	0.55	\$ 1,125,000

DAVID CITY, NEBRASKA ONE AND SIX YEAR PLAN FISCAL YEAR 25/26-30/31



JEO CONSULTING GROUP INC

800.723.8567



NATIONAL ROAD CLASSIFICATIONS

- OTHER PRINCIPAL ARTERIALS
- MAJOR COLLECTOR

PROJECT LEGEND

- 1 YEAR PLAN
- 6 YEAR PLAN

DRAWING NAME: DAVID CITY
REVISED BY: GNL
REVISED ON: JULY 24, 2025



MEMO

To: City of David City
From: JEO Consulting Group
Date: March 6, 2026
Subject: N 6th Street & D Street Intersection Study

Introduction

At the request of the City of David City, an engineering evaluation was conducted at the intersection of N 6th Street and D Street to evaluate the need for stop control. This memorandum documents the evaluation, analysis, and resulting recommendation regarding traffic control at the intersection. The evaluation was conducted in accordance with the American Association of State Highway and Transportation Officials A Policy on Geometric Design of Highways and Streets (Green Book) and the Manual on Uniform Traffic Control Devices, 11th Edition (MUTCD).

Existing Conditions

The intersection of N 6th Street & D Street is a four-legged intersection with N 6th Street oriented in a north south direction and D Street oriented in an east west direction. Both streets consist of two lanes, with one lane in each direction, and include curb and gutter sections. The intersection currently operates without traffic control on any approach. On street parking is permitted along both sides of each street, with a mix of parallel, diagonal, and perpendicular parking in the surrounding blocks. Speed limit signs were not observed on either street in the vicinity of the intersection; therefore, a statutory speed limit of 25 miles per hour was assumed for both streets.

The intersection is located near the eastern edge of the downtown area of David City, with N 6th Street serving as a transition between commercial uses to the west and residential development to the east. Although both streets are classified as local streets according to the Nebraska Department of Transportation (NDOT) State Functional Classification Map, D Street functions more like a collector street by providing a connection between the downtown area and residential neighborhoods to the east. David City Public High School is located approximately one block east of the intersection and contributes to increased traffic volumes along D Street, particularly during school arrival and dismissal periods. The David City Fire Department is located on the north side of D Street west of the intersection.

Crash data for the most recent available five-year period, from January 1, 2020, through December 31, 2024, was obtained from NDOT. No reported crashes occurred at the intersection of N 6th Street & D Street during this period.

Site Observations

A site visit was conducted on February 24, 2026, to observe traffic operations, driver behavior, and overall intersection characteristics at N 6th Street & D Street. During the field review, traffic volumes appeared light, and vehicles navigated the intersection without significant delay or observable conflicts. Drivers on all approaches demonstrated yielding behavior consistent with an uncontrolled intersection.

As part of the evaluation, intersection sight distance was measured for the northbound and southbound approaches to evaluate visibility of vehicles approaching from the east and west. Measurements were taken at several locations representing typical driver positions as a vehicle approaches and enters the intersection. These locations include advance approach positions and positions near the intersection consistent with driver eye locations and offsets described in the Green Book for evaluating intersection sight distance, generally between approximately 14.5 feet (minimum) and 18 feet (desirable) from the edge of the major road traveled way. Details of these measurements are provided below.

NORTHBOUND SIGHT DISTANCE

Sight distance for northbound vehicles was measured at three locations, as shown in Figure 1: N1 at 75 feet in advance of the east leg edge of traveled way; N2 at 5 feet in advance of the unmarked crosswalk; and N3 at 18 feet in advance of the edge of traveled way.

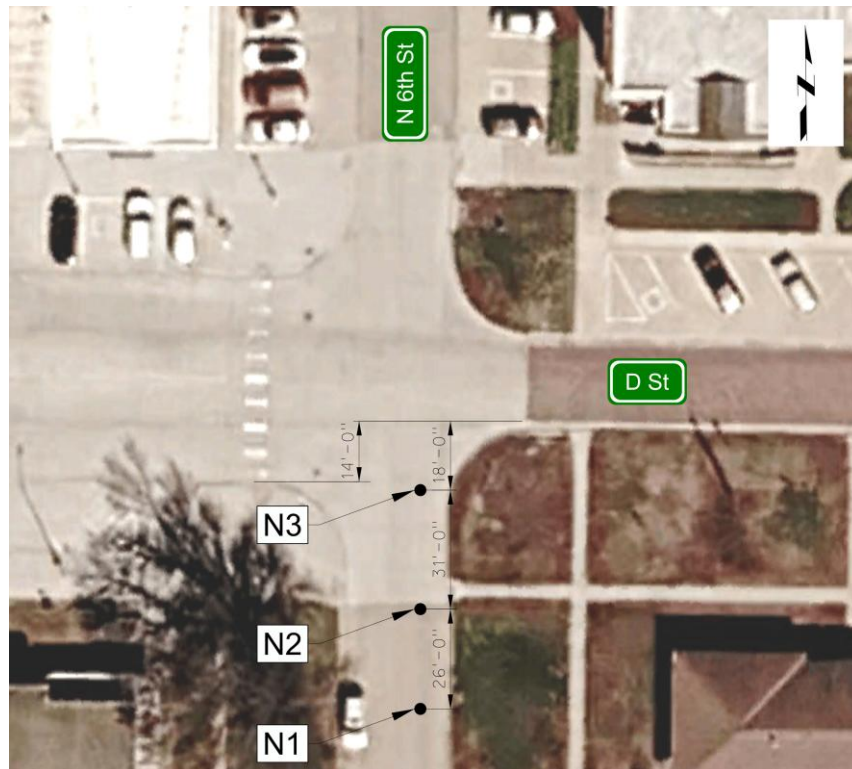


Figure 1: Northbound Sight Distance Measurement Locations

At each location, the available sight distance for northbound drivers to observe vehicles approaching from the east and west was measured. These measurements are summarized in Table 1. As shown, only location N3 meets the required intersection sight distance for both eastbound and westbound approaching vehicles. Neither N1 nor N2 meet the required sight distance. It should be noted that the residence at 617 D Street has a driveway east of the intersection. This driveway, when occupied by a parked vehicle, may infrequently impede sight distance.

Table 1: Northbound Sight Distance Measurements

Locations	Eastbound Approach		Westbound Approach	
	Measured	Required	Measured	Required
N1	121'	240'*	221'	280'*
N2	138'		384'	
N3	822'		1212'	

*Minimum required sight distance for all northbound locations, in accordance with the Green Book and a 25-mph approach speed.

SOUTHBOUND SIGHT DISTANCE

Sight distance for southbound vehicles was measured at four locations, as shown in Figure 2: S1 at 75 feet in advance of the west leg gutter line; S2 at 5 feet in advance of the unmarked crosswalk; S3 at 14.5 feet in advance of the west leg gutter line; and S4 at the west leg gutter line.



Figure 2: Northbound Sight Distance Measurement Locations

At each location, the available sight distance for southbound drivers to observe vehicles approaching from the east and west was measured. These measurements are summarized in Table 2. Sight distance to westbound traffic at location S4 was evaluated under two conditions: with the existing accessible stall along the north side of D Street in its current position and with the stall relocated one space to the east. As shown in Table 2, the required intersection sight distance is met only at location S4 if the existing accessible stall serving Saint Luke’s United Methodist Church is relocated one space to the east and parking is prohibited in its current location.

Table 2: Southbound Sight Distance Measurements

Locations	Eastbound Approach		Westbound Approach	
	Measured	Required	Measured	Required
S1	54'	280'*	88'	240'*
S2	114'		98'	
S3	242'		127'	
S4	281'		218' / 249'**	

*Minimum required sight distance for all southbound locations, in accordance with the Green Book and a 25-mph approach speed.

**This distance was measured twice, one with and one without the existing accessible stall along D street.

Evaluation Criteria

The evaluation of no intersection control, minor road stop control, and all way stop control was conducted in accordance with the MUTCD. The MUTCD establishes warrants for the installation of stop control based on traffic volumes, crash experience, and operational characteristics. Further details regarding the applicable thresholds for these control strategies are included in Attachment A.

Analysis

The following analysis evaluates the applicability of no intersection control, minor road stop control, and all way stop control at N 6th Street & D Street based on the criteria established in the MUTCD.

NO INTERSECTION CONTROL

Section 2B.09 of the MUTCD states that the decision to use no intersection control should be based on several factors, including intersection sight distance and functional classification. Field measurements indicate that sight distance for northbound and southbound drivers to observe eastbound and westbound traffic is not adequate in advance of the intersection. Additionally, while both streets are classified as local streets, field observations indicate that D Street functions more like a collector by serving as a connection between the downtown area to the west and residential neighborhoods to the east. Based on these factors, continued operation without intersection control is not recommended.

MINOR ROAD STOP CONTROL

Section 2B.11 of the MUTCD states that minor road stop control should be considered when engineering judgment identifies restricted sight distance requiring drivers to stop to adequately observe conflicting traffic, when crash history satisfies specified thresholds, or when the intersection consists of differing functional classifications. Crash data for the most recent five-year period indicate no reported crashes at the intersection and therefore do not satisfy the crash-related criteria. Measured intersection sight distance for the northbound and southbound approaches is below recommended values for adequate visibility of eastbound and westbound traffic. Once vehicles stop at the intersection, sufficient sight distance can be provided with one modification to the existing conditions: relocation of the Saint Luke's United Methodist Church accessible stall one space to the east. Additionally, while both streets are classified as local streets, D Street functions more like a collector street by serving as a connection between the downtown area to the west and adjacent residential areas to the east. Based on the restricted sight distance and differing functional characteristics, installation of minor road stop control on the northbound and southbound approaches could be supported.

Stop Sign Placement

To further evaluate the possibility of minor road stop control, stop sign locations were evaluated for the northbound and southbound approaches.

For the northbound approach, the stop sign should be placed 18 feet south of the east leg gutter line of D Street, in accordance with guidance provided in the Green Book. This location is approximately 22 feet north of the existing unmarked crosswalk. This offset allows a vehicle to stop without encroaching on the crosswalk.

For the southbound approach, insufficient space exists to place the stop sign south of the crosswalk while maintaining adequate vehicle storage and avoiding obstruction of the crosswalk. Therefore, the stop sign must be placed a minimum of 4 feet in advance of the crosswalk.

This placement conflicts with the southernmost accessible parking stall along the west side of N 6th Street. To comply with MUTCD requirements, this stall must be removed and the area permanently marked to prohibit parking.

ALL WAY STOP CONTROL

Section 2B.12 of the MUTCD states that the decision to establish all way stop control should be based on an engineering study that considers crash experience, sight distance, traffic volumes, and other applicable factors. Crash data for the most recent five-year period indicate no reported crashes at the intersection and therefore do not satisfy the crash experience warrant. While approach sight distance for northbound and southbound vehicles is restricted, field measurements indicate that adequate intersection sight distance is available once a vehicle stops at the appropriate location with the modifications previously described. As such, the sight distance warrant for all way stop control is not satisfied. Based on field observations and the absence of crash history, installation of all way stop control at this intersection likely would not be supported. However, if the modification required to implement minor road stop control is not implemented, required sight distance would not be present and all way stop control would be supported.

Traffic Control Recommendation

Based on the evaluation conducted in accordance with the MUTCD, continued operation without intersection control is not recommended due to restricted sight distance for northbound and southbound approaches. Installation of minor road stop control on the northbound and southbound approaches to N 6th Street & D Street is supported based on measured sight distance limitations and the functional characteristics of the intersecting streets. All way stop control would instead be supported if the modification required to implement minor road stop control is not completed.

Based on the findings of this evaluation and the determination of appropriate stop sign locations, minor road stop control may be implemented on the northbound and southbound approaches at N 6th Street & D Street provided the following modifications are completed:

- The accessible stall serving Saint Luke's United Methodist Church must be relocated one space to the east, and parking must be prohibited in its current location to meet the required southbound sight distance for westbound traffic.
- The southernmost accessible stall along the west side of N 6th Street, just north of the unmarked crosswalk, must be removed and permanently marked to prohibit parking.

Additional Considerations

The stop sign for the northbound approach should be placed 18 feet south of the east leg edge of traveled way. This placement provides adequate sight distance to approaching drivers and ensures that a stopped vehicle does not encroach on the existing sidewalk.

If the crosswalk across the south leg is ever marked, the MUTCD directs that the stop sign be placed in advance of the marked crossing. Because required sight distance is not available when a vehicle is stopped south of the crosswalk, marking this crosswalk would require conversion of the intersection to all way stop control with a stop sign on all four approaches.

RESOLUTION NO. 2-2026

A RESOLUTION OF THE CITY COUNCIL OF DAVID CITY, NEBRASKA, SUPPORTING A CONGRESSIONALLY DIRECTED SPENDING REQUEST TO UNITED STATES SENATOR DEB FISCHER FOR THE DAVID CITY ROUNDABOUT SAFETY IMPROVEMENT PROJECT

WHEREAS, the City of David City, Nebraska, in partnership with the Nebraska Department of Transportation, has identified the need for safety improvements at a key highway intersection located approximately 1.75 miles north of downtown David City; and

WHEREAS, the existing intersection experiences a mix of local, agricultural, and industrial traffic, with approximately eight percent of vehicles consisting of trucks, and current conditions present safety concerns for motorists traveling through the corridor; and

WHEREAS, traffic analysis and preliminary engineering have identified the construction of a modern roundabout, along with associated roadway alignment, signage, lighting, and drainage improvements, as an effective solution to improve traffic flow, reduce crash potential, and enhance long-term operational safety; and

WHEREAS, the proposed project is planned for construction during the 2028–2029 timeframe and will be designed primarily within the existing right-of-way, with only limited temporary easements anticipated for construction staging; and

WHEREAS, environmental review under the National Environmental Policy Act (NEPA) is anticipated to begin in Fall 2027 or Spring 2028, and required permits are expected to include a Stormwater Pollution Prevention Plan (SWPPP) and an Occupy Right-of-Way Permit through the Nebraska Department of Transportation; and

WHEREAS, David City, with a population of approximately 3,026 residents and located within Butler County with a population of approximately 8,439, has limited local resources to fully fund major transportation infrastructure improvements without federal assistance; and

WHEREAS, federal funding through the Congressionally Directed Spending process would significantly assist the City in advancing this important \$3,575,000 safety improvement project that benefits both local residents and the regional transportation network.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF DAVID CITY, NEBRASKA, that the City Council hereby expresses its full support for a Congressionally Directed Spending request to be submitted to The Honorable Deb Fischer, United States Senator for the State of Nebraska, for federal funding in the amount of \$2,860,000 to assist with the David City Roundabout Safety Improvement Project.

BE IT FURTHER RESOLVED that the City of David City affirms its commitment to work with the Nebraska Department of Transportation to advance the project, provide any required local match in the amount of \$715,000, and comply with all applicable federal requirements associated with the requested funding.

PASSED AND APPROVED this 11th day of March, 2026.

CITY OF DAVID CITY, NEBRASKA

By _____
Jessica Miller, Mayor

ATTEST:

Lori Matchett, City Clerk

CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner: City of David City
Engineer: **JEO Consulting Group, Inc.**
Contractor: Gehring Construction & Ready Mix Co., Inc.
Project: 2024 Nebraska Street Extension
Contract Name: 2024 Nebraska Street Extension

Owner's Project No.:
Engineer's Project No.: 231816.00
Contractor's Project No.:

This Preliminary Final Certificate of Substantial Completion applies to:

All Work The following specified portions of the Work:

2024 Nebraska Street Extension

Date of Substantial Completion: **November 26, 2025**

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor, and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Work or portion thereof designated above is hereby established, subject to the provisions of the Contract pertaining to Substantial Completion. The date of Substantial Completion in the final Certificate of Substantial Completion marks the commencement of the contractual correction period and applicable warranties required by the Contract.

A punch list of items to be completed or corrected is attached to this Certificate. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

Amendments of contractual responsibilities recorded in this Certificate should be the product of mutual agreement of Owner and Contractor; see Paragraph 15.03.D of the General Conditions.

The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance, and warranties upon Owner's use or occupancy of the Work must be as provided in the Contract, except as amended as follows:

Amendments to Owner's Responsibilities: None As follows:

None.

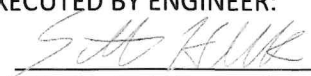
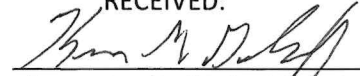
Amendments to Contractor's Responsibilities: None As follows:

None.

The following documents are attached to and made a part of this Certificate:

231816.00 – Punch List Document.pdf

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

EXECUTED BY ENGINEER:		RECEIVED:		RECEIVED:	
By:	<u></u>	By:	_____	By:	<u></u>
	(Authorized signature)		Owner (Authorized Signature)		Contractor (Authorized Signature)
Title:	<u>Project Engineer</u>	Title:	_____	Title:	<u>VP</u>
Date:	<u>01/20/2026</u>	Date:	_____	Date:	<u>1-22-2026</u>

Contractor's Application for Payment

Owner: <u>City of David City</u>	Owner's Project No.: _____
Engineer: <u>JEO Consulting Group, Inc.</u>	Engineer's Project No.: <u>231816.00</u>
Contractor: <u>Gehring Construction & Ready Mix Co., Inc.</u>	Contractor's Project No.: _____
Project: <u>2024 Nebraska Street Extension</u>	
Contract: <u>2024 Nebraska Street Extension</u>	
Application No.: <u>TWO & FINAL</u>	Application Date: <u>3/4/2026</u>
Application Period: From <u>11/27/2025</u> to <u>2/18/2026</u>	

1. Original Contract Price		\$ 93,867.50
2. Net change by Change Orders		\$ 95,274.20
3. Current Contract Price (Line 1 + Line 2)		\$ 189,141.70
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)		\$ 189,141.70
5. Retainage		
a. <u>0%</u> X \$ <u>189,141.70</u> Work Completed =	\$	-
b. <u>0%</u> X \$ <u>-</u> Stored Materials =	\$	-
c. Total Retainage (Line 5.a + Line 5.b)	\$	-
6. Amount eligible to date (Line 4 - Line 5.c)		\$ 189,141.70
7. Less previous payments (Line 6 from prior application)		\$ 172,596.19
8. Amount due this application		\$ 16,545.51
9. Balance to finish, including retainage (Line 3 - Line 4 + Line 5.c)		\$ -

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: Gehring Construction + Ready Mix Co., Inc.

Signature: Stephen Anderson **Date:** 3-4-26

Recommended by Engineer	Approved by Owner
By: <u>[Signature]</u>	By: _____
Title: <u>Project Engineer</u>	Title: _____
Date: <u>3/4/2026</u>	Date: _____
Approved by Funding Agency	
By: _____	By: _____
Title: _____	Title: _____
Date: _____	Date: _____

Progress Estimate - Unit Price Work

Owner: City of David City
 Engineer: JEO Consulting Group, Inc.
 Contractor: Gehring Construction & Ready Mix Co., Inc.
 Project: 2024 Nebraska Street Extension
 Contract: 2024 Nebraska Street Extension

Contractor's Application for Payment

Owner's Project No.: 231816.00
 Engineer's Project No.:
 Contractor's Project No.:

Application No.:		TWO & FINAL		From 11/27/25		to 02/18/26		Application Date:		03/04/26	
Bid Item No.	Description	Contract Information		Value of Bid Item (C X E) (\$)	Work Completed Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)	Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (J / F) (%)	Balance to Finish (F - J) (\$)	
		Item Quantity	Units								Unit Price (\$)
1	Mobilization	1	LS	6,600.00	1.00	6,600.00		6,600.00	100%	-	
2	Bonding and Insurance	1	LS	1,500.00	1.00	1,500.00		1,500.00	100%	-	
3	Temporary Traffic Control Measures	1	LS	1,500.00	1.00	1,500.00		1,500.00	100%	-	
4	Site Grading and Clearing	1	LS	5,000.00	1.00	5,000.00		5,000.00	100%	-	
5	Remove Asphalt Pavement	180	SY	12.00	180.00	2,160.00		2,160.00	100%	-	
6	Remove Wood Fence	193	LF	10.00	193.00	1,930.00		1,930.00	100%	-	
7	Remove Tree (<24" Circumference)	5	EA	800.00	5.00	4,000.00		4,000.00	100%	-	
8	Remove Tree (24" to 48" Circumference)	5	EA	800.00	5.00	4,000.00		4,000.00	100%	-	
9	Remove and Reset Mailbox	1	EA	500.00	1.00	500.00		500.00	100%	-	
10	Subgrade Preparation	733	SY	2.00	733.00	1,466.00		1,466.00	100%	-	
11	Unsuitable Materials	25	CY	50.00	25.00	1,250.00		1,250.00	100%	-	
12	7" Concrete Pavement	733	SY	60.00	733.00	43,980.00		43,980.00	100%	-	
13	6" Concrete Driveway	25	SY	60.00	25.00	1,500.00		1,500.00	100%	-	
14	6" Concrete Flume	38	SY	60.00	38.00	2,280.00		2,280.00	100%	-	
15	Junction Box	1	EA	4,410.00	1.00	4,410.00		4,410.00	100%	-	
16	12" RCP Class V	64	LF	63.00	64.00	4,032.00		4,032.00	100%	-	
17	12" RCP Flared End Section	2	EA	945.00	2.00	1,890.00		1,890.00	100%	-	
18	Crushed Rock Surface Course	5	TONS	150.00	5.00	750.00		750.00	100%	-	
19	Stabilized Construction Entrance	25	TONS	100.00	25.00	2,500.00		2,500.00	100%	-	
20	Straw Wattle	40	LF	6.50	40.00	260.00		260.00	100%	-	
21	Erosion Mat with Seed	858	SY	2.75	858.00	2,359.50		2,359.50	100%	-	
				Original Contract Totals	\$	93,867.50	\$	93,867.50	100%	\$	

Progress Estimate - Unit Price Work

Owner: City of David City
 Engineer: JEO Consulting Group, Inc.
 Contractor: Gehring Construction & Ready Mix Co., Inc.
 Project: 2024 Nebraska Street Extension
 Contract: 2024 Nebraska Street Extension

Contractor's Project No.: 231816.00

Contractor's Application for Payment

Application No.: TWO & FINAL From 11/27/25 to 02/18/26 Application Date: 03/04/26

Bid Item No.	Description	Item Quantity	Units	Unit Price (\$)	Value of Bid Item (C X E) (\$)	Contract Information		Estimated Quantity Incorporated in the Work	Value of Work Completed (E X G) (\$)	Materials Currently Stored (not in G) (\$)	Work Completed and Materials Stored to Date (H + I) (\$)	% of Value of Item (I / F) (%)	Balance to Finish (F - J) (\$)
						C	D						
Change Orders													
CO ONE													
5	Remove Asphalt Pavement	664.00	SY	12.00	7,968.00			664.00	7,968.00		7,968.00	100%	-
9	Remove and Reset Mailbox	2.00	EA	500.00	1,000.00			2.00	1,000.00		1,000.00	100%	-
10	Subgrade Preparation	791.00	SY	2.00	1,582.00			791.00	1,582.00		1,582.00	100%	-
12	7" Concrete Pavement	791.00	SY	60.00	47,460.00			791.00	47,460.00		47,460.00	100%	-
13	6" Concrete Driveway	257.00	SY	60.00	15,420.00			257.00	15,420.00		15,420.00	100%	-
14	6" Concrete Flume	2.00	SY	60.00	120.00			2.00	120.00		120.00	100%	-
18	Crushed Rock Surface Course	5.00	TONS	150.00	750.00			5.00	750.00		750.00	100%	-
20	Straw Wattle	20.00	LF	6.50	130.00			20.00	130.00		130.00	100%	-
21	Erosion Mat with Seed	493.00	SY	2.75	1,355.75			493.00	1,355.75		1,355.75	100%	-
22	Remove 12" CMP Pipe	52.00	LF	16.85	876.20			52.00	876.20		876.20	100%	-
23	Remove Concrete Pavement	269.00	SY	15.00	4,035.00			269.00	4,035.00		4,035.00	100%	-
24	6" PVC Storm Sewer Pipe, SDR 35	60.00	LF	51.60	3,096.00			60.00	3,096.00		3,096.00	100%	-
25	12" N/loplast Drain Basin	1.00	EA	4,000.00	4,000.00			1.00	4,000.00		4,000.00	100%	-
26	Excavation, Established Quantity	219.00	CY	25.00	5,475.00			219.00	5,475.00		5,475.00	100%	-
27	Remove, Salvage and Reinstall Landscape Rock	51.00	SY	60.00	3,060.00			51.00	3,060.00		3,060.00	100%	-
CO TWO													
11	Unsuitable Materials	(25.00)	CY	50.00	(1,250.00)			(25.00)	(1,250.00)		(1,250.00)	100%	-
19	Stabilized Construction Entrance	(25.00)	TONS	100.00	(2,500.00)			(25.00)	(2,500.00)		(2,500.00)	100%	-
21	Erosion Mat with Seed	435	SY	2.75	1,196.25			435.00	1,196.25		1,196.25	100%	-
28	Remove and Reset Irrigation System	1.00	LS	1,500.00	1,500.00			1.00	1,500.00		1,500.00	100%	-
				Change Order Totals	\$	95,274.20	\$	95,274.20	\$	95,274.20	\$	100%	\$
				Original Contract and Change Orders	\$	189,141.70	\$	189,141.70	\$	189,141.70	\$	100%	\$
				Project Totals	\$	189,141.70	\$	189,141.70	\$	189,141.70	\$	100%	\$



**AGREEMENT
BETWEEN CLIENT AND JEO CONSULTING GROUP, INC.
FOR
PROFESSIONAL SERVICES**

THIS IS AN AGREEMENT effective as of _____ (“Effective Date”) between **David City, Nebraska** (“Client”) and JEO Consulting Group, Inc. (“JEO”).

Client’s project, of which JEO’s services under this Agreement are a part, is generally identified as follows:

David City 5th Street Improvements (“Project”).

JEO Project Number: **252004.00**

Client and JEO further agree as follows:

ARTICLE 1 - SERVICES OF JEO

1.01 Scope

- A. JEO shall provide, or cause to be provided, the services set forth in Exhibit A.

ARTICLE 2 - CLIENT’S RESPONSIBILITIES

2.01 Client Responsibilities

- A. Client responsibilities are outlined in Exhibit A and Section 3 of Exhibit B.

ARTICLE 3 - COMPENSATION

3.01 Compensation

- A. Client shall pay JEO as set forth in Exhibit A and per the terms in Exhibit B.
- B. The fee for the Project is: **\$118,130.00 (Lump Sum)**
- C. The Standard Hourly Rates Schedule shall be adjusted annually (as of approximately January 1st) to reflect equitable changes in the compensation payable to JEO. The current hourly rate schedule can be provided upon request.

ARTICLE 4 - EXHIBITS AND SPECIAL PROVISIONS

4.01 Exhibits

Exhibit A – Scope of Services
Exhibit B – General Conditions

4.02 Total Agreement

- A. This Agreement (consisting of pages 1 to 2 inclusive, together with the Exhibits identified as included above) constitutes the entire agreement between Client and JEO and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

Client: **David City, Nebraska**

JEO Consulting Group, Inc.



By: _____

By: **Andrew Wilshusen, PE**

Title: _____

Title: **Project Manager**

Date Signed: _____

Date Signed: **March 9, 2026**

Address for giving notices:

Address for giving notices:

JEO Consulting Group, Inc.

319 N Locust Street

Grand Island, Nebraska

fax: **308.381.2635**



**SCOPE OF SERVICES:
Exhibit A**

PROJECT DESCRIPTION:

David City, Nebraska: The City of David City is planning to make improvements to 5th Street from “C” Street to Iowa Street. The existing street surface is composed of brick with aging concrete curb and gutter. Curb inlets and storm sewer are currently located at the intersection of 5th and “A” Street. It is the intent of this project to remove the existing brick paving, along with the curb and gutter and replace it with a new 25-foot wide concrete paving. The existing storm sewer inlets will also be reconstructed and connected to the existing storm sewer system. New sidewalks and ADA ramps will be constructed at intersection returns. The existing 4” watermain from Iowa to A Street will also be replaced with a new 8” PVC watermain.

This agreement is for design and bidding phase services only.

1 DESIGN PHASE

- 1.1 Provide Project Management throughout all Phase of this project, to include:
 - 1.1.1 Coordination of all design disciplines including facilitating communication and transfer of documents between disciplines to minimize errors in the technical memos, plans and specifications, as well as ensure a timely project design.
 - 1.1.2 Provide timely and coordinated communication to and from the Owner for requests for information, providing progress updates, scheduling meetings, and receiving and providing feedback.
 - 1.1.3 Provide oversight to ensure scope of services and schedule is met.
 - 1.1.4 Work with disciplines to identify potential risks and how to mitigate those risks.
 - 1.1.5 Review billed hours by design team and prepare invoice statements for Owner.
- 1.2 Attend and facilitate Initiation/Kick-off meeting with Owner (1 meeting). Meeting review to include:
 - 1.2.1 Review the scope, schedule, and project requirements.
 - 1.2.2 Review limits of proposed street, sidewalk and storm sewer improvements.
 - 1.2.3 Review general locations of existing utilities.
 - 1.2.4 Engineer will also ask for any specific requirements or concerns from the Owner about the project.
- 1.3 Complete Geotechnical Investigation for the project.
- 1.4 Engineer will schedule and obtain a topographic survey containing the following:
 - 1.4.1 Survey the locations of all visible physical features (i.e.: concrete, asphalt, gravel, rock, driveways, sidewalks, trees, utility poles, valves, manholes, signs, drainage structures, curb stops, water meter pits, terrain profiles, etc.) within the proposed site location.
 - 1.4.2 Collect available utility location information and incorporate on preliminary plans (gas, telephone, electric, water, sanitary sewer, communications, etc.).

- 1.4.3 Create an electronic drawing using Civil3D, illustrating elevations, site features, property boundaries, and existing utilities resulting from the surveys performed.
- 1.4.4 Collect available property pins and/or sections corners.
- 1.4.5 Collect road cross section data every 50 feet for the limits on streets noted in the project description and from ROW to ROW; and section taken at each driveway location.
- 1.4.6 Topographic survey shall stop at the edge of existing streets not being improved.
- 1.5 Engineer will make a "One Call" for utility locates to be marked in the project corridor and together with other survey data, will map existing site conditions within the electronic drawing.
- 1.6 Review of existing data and design requirements (standard vehicles, access requirements, etc.).
- 1.7 Prepare 30% complete preliminary plans, to include:
 - 1.7.1 Cover sheet and general location maps
 - 1.7.2 Survey control sheets
 - 1.7.3 Removal plan
 - 1.7.4 Concrete paving plan and preliminary profile
 - 1.7.5 Typical cross section of roadway(s)
 - 1.7.6 Paving improvements
 - 1.7.7 Preliminary drainage design
 - 1.7.8 Preliminary water main design
- 1.8 Prepare a 30% complete opinion of probably construction cost.
- 1.9 Conduct a plan-in-hand review in the field with the Owner to confirm the proposed layout and survey information. (1 meeting)
- 1.10 Prepare 70% complete preliminary plans and specifications. Plans and specifications to include:
 - 1.10.1 General location maps.
 - 1.10.2 Survey control sheets.
 - 1.10.3 Removal plan.
 - 1.10.4 Concrete paving plan and preliminary profile including geometrics and grades
 - 1.10.5 Intersection and drainage plan and profile with corresponding technical specifications.
 - 1.10.6 Water main plan and profiles.
 - 1.10.7 Cross sections.
 - 1.10.8 Erosion control plan.
 - 1.10.9 Front end specifications complete with bidding, contract, and any required funding requirement documentation.
- 1.11 Prepare an opinion of probable construction cost to be commensurate with the 70% complete plans.
- 1.12 Perform an internal quality assurance/quality control (QA/QC) review of the 70% complete plans and specifications.
- 1.13 Attend a meeting with the Owner's designated representative to review the 70% complete preliminary design documents. (1 meeting)
- 1.14 Submit 70% complete plans to utility companies for review of potential conflicts. Owner is to provide names and addresses for utility companies licensed or permitted with the Owner that may have utilities in the project area.

- 1.15 Revise plans and specifications based on the QA/QC comments and the 70% complete design meeting with the Owner.
- 1.16 Prepare 90% complete plans and specifications. Plans and specifications to include:
 - 1.16.1 All sheets previously listed for the 70% complete plans.
 - 1.16.2 Insertion of design detail sheets.
 - 1.16.3 Completion of the special provisions section of the specifications.
 - 1.16.4 Complete all forms for Contract Documents including proposals, advertisements for bids, construction contracts, and payment and performance bonds as required.
- 1.17 Perform an internal QA/QC review of the 90% complete plans and specifications.
- 1.18 Finalize construction drawings and specifications subject to Owner's approval.
- 1.19 Prepare a list of final construction quantities and furnish a final opinion of probable construction cost.
- 1.20 Provide completed final documents (Plans, Specifications, and Contract Documents) signed and sealed by a professional engineer registered in the State of Nebraska to Owner.
- 1.21 Attend up to one (1) meeting to review final design documents and opinions of probable construction cost, obtain approval of the final plans, specifications and bid documents and receive authorization to submit final plans, specifications and bid documents to the appropriate agencies for review and approval.

2 BIDDING AND NEGOTIATION PHASE

- 2.1 Obtain approval of plans and specifications and authorization to advertise for bids from Owner.
- 2.2 Provide assistance with authorizing the advertisement for bids and setting the bid date and time.
- 2.3 Send Notice to Bidders to Contractors, Builder Bureaus and Plan Rooms.
- 2.4 Furnish electronic or paper copies of plans, specifications, and contract documents of the project to prospective bidders, material suppliers, and other interested parties upon their request.
- 2.5 Respond to inquiries from prospective bidders and prepare any addenda required.
- 2.6 Assist the Owner in securing construction bids for the project.
- 2.7 Assist the Owner at the bid opening, consisting of one (1) meeting.
- 2.8 Tabulate and analyze construction bids and report on them to the Owner, together with advice and assistance to the Owner in award of construction contract.
- 2.9 Prepare and submit necessary information to the Owner for project award approval.
- 2.10 Prepare Contract Documents (Construction Contract and Notice to Proceed) for execution by the Prime Contractor(s) and the Owner; provide cursory reviews of all insurance and bonds submittals; then advise the Owner to proceed with execution of all documents.
- 2.11 Provide copies of all executed Contract Documents to the Owner and Prime Contractor(s).

3 OWNER RESPONSIBILITIES

- 3.1 Provide timely review of documents or requests for information.
- 3.2 Provide access to property to conduct proposed services.

3.3 Provide contact information for utility companies within the right-of-way along the project route.

4 FEE

4.1 JEO proposes to provide the services defined above for the fees defined below:

<u>Task</u>	<u>Fee</u>
Design Phase (Lump Sum)	\$ 112,130.00
Bidding and Negotiation Phase (Lump Sum)	\$ <u>6,000.00</u>
Total (Lump Sum)	\$ 118,130.00

5 PROGRESS PAYMENTS

5.1 JEO will bill for services completed near the end of each month. All invoices are due payable upon receipt and are considered delinquent after 30 days.

5.2 Invoices not paid within 30 days may be charged interest at the annual rate of 12% (1.0%/month).

5.3 Payments will be applied first to the interest then principal.

5.4 Work by JEO will cease if invoices have not been paid in full within 60 days and will not begin again until full payment with interest has been received.

6 CONTRACT TIME

6.1 JEO will work as expeditiously as possible, pending authorization from Owner to complete the tasks in this project.

6.2 Design Phase – 120 days from authorization to proceed.

6.3 Bidding and Negotiation Phase – 45-60 days from authorization to advertise.

6.4 If the Basic Services covered by this Agreement have not been completed by December 31, 2026, through no fault of JEO, extension or adjustment of JEO’s services beyond that time shall be compensated as additional services.

6.5 The information in this proposal and fee estimate is valid until March 31, 2026. After that time, the scope of services and estimated are subject to adjustment.

7 EXCLUSIONS

7.1 Storm sewer sizing and analysis (i.e. assume replace in-kind)

7.2 Relocation of utilities (sanitary sewer, electrical, lighting, etc.).

7.3 Land rights and ownership

7.4 Floodplain, US Army Corps of Engineers Section 404, or other environmental permitting

7.5 Wetlands determination and mitigation

7.6 Migratory bird or endangered species surveys

7.7 SWPPP preparation, administration and inspections

7.8 Any permit fees associated with permit applications

7.9 Special meetings and meetings not outlined in the Scope of Services

7.10 Signing, marking, and traffic control plans

7.11 Construction Phase Services (construction administration, staking and construction observation)

7.12 Easement or right of way description or plat preparation

- 7.13 Preparing Street Improvement District or Project documents
- 7.14 Land Survey monumentation to reestablish existing street right of way

8 REIMBURSABLE EXPENSES

- 8.1 Typical reimbursable expenses are included in the lump-sum and cover: mileage for trips required to complete the work defined above, long-distance phone calls, meals, other travel expenses, software, copies/prints, and faxes.
- 8.2 Other reimbursable expenses shall be billed at 110% of their cost. (None are anticipated on this project.)

9 ADDITIONAL TERMS

- 9.1 The General Conditions are specified in Exhibit B.

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

GENERAL CONDITIONS

1. SCOPE OF SERVICES: JEO Consulting Group, Inc. ("JEO") shall perform the services described in Exhibit A. JEO shall invoice the client for these services at the fee stated in Exhibit A.

2. ADDITIONAL SERVICES: JEO can perform work beyond the scope of services, as additional services, for a negotiated fee or at fee schedule rates.

3. CLIENT RESPONSIBILITIES: The client shall provide all criteria and full information as to the client's requirements for the project; designate and identify in writing a person to act with authority on the client's behalf in respect to all aspects of the project; examine and respond promptly to JEO's submissions; and give prompt written notice to JEO whenever the client observes or otherwise becomes aware of any defect in work.

Unless otherwise agreed, the client shall furnish JEO with right-of-access to the site in order to conduct the scope of services. Unless otherwise agreed, the client shall also secure all necessary permits, approvals, licenses, consents, and property descriptions necessary to the performance of the services hereunder. While JEO shall take reasonable precautions to minimize damage to the property, it is understood by the client that in the normal course of work some damage may occur, the restoration of which is not a part of this agreement.

Client is responsible for paying the sales tax/fees on services provided, if sales tax/fees are required by the jurisdiction of the project. This amount may not be included in the fee for the project.

4. TIMES FOR RENDERING SERVICES: JEO's services and compensation under this agreement have been agreed to in anticipation of the orderly and continuous progress of the project through completion. Unless specific periods of time or specific dates for providing services are specified in the scope of services, JEO's obligation to render services hereunder shall be for a period which may reasonably be required for the completion of said services.

If specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided, and if such periods of time or date are changed through no fault of JEO, the rates and amounts of compensation provided for herein shall be subject to equitable adjustment. If the client has requested changes in the scope, extent, or character of

the project, the time of performance of JEO's services shall be adjusted equitably.

5. INVOICES: JEO shall submit invoices to the client monthly for services provided to date and a final bill upon completion of services. Invoices are due and payable within 30 days of receipt. Invoices are considered past due after 30 days. Client agrees to pay a finance charge on past due invoices at the rate of 1.0% per month, or the maximum rate of interest permitted by law.

If the client fails to make any payment due to JEO for services and expenses within 30 days after receipt of JEO's statement, JEO may, after giving 7 days' written notice to the client, suspend services to the client under this agreement until JEO has been paid in full all amounts due for services, expenses, and charges.

6. STANDARD OF CARE: The standard of care for all services performed or furnished by JEO under the agreement shall be the care and skill ordinarily used by members of JEO's profession practicing under similar circumstances at the same time and in the same locality. JEO makes no warranties, express or implied, under this agreement or otherwise, in connection with JEO's services.

JEO shall be responsible for the technical accuracy of its services and documents resulting therefrom, and the client shall not be responsible for discovering deficiencies therein. JEO shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in client furnished information.

7. REUSE OF DOCUMENTS: Instruments of Service are drawings, specifications, models, etc., including those in electronic form prepared by JEO with respect to this Project. Upon execution of this Agreement, JEO grants to Client a nonexclusive license to use JEO's Instruments of Service solely and exclusively for purposes of constructing, using, maintaining, altering, and adding to the Project, provided that Client substantially performs its obligations, including payment for all sums when due, under this agreement. JEO shall be deemed the author and owner of their respective instruments of service and shall retain all intellectual property, common law, statutory and other reserved rights, including copyrights.

Client assumes full responsibility for any unauthorized use of JEO's Instruments of Service and shall indemnify and defend JEO for any claims that may arise out of such

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

GENERAL CONDITIONS

unauthorized use.

8. ELECTRONIC FILES: Copies of Documents that may be relied upon by the client are limited to the printed copies (also known as hard copies) that are signed or sealed by JEO. Files in electronic media format of text, data, graphics, or of other types that are furnished by JEO to the client are only for convenience of the client. Any conclusion or information obtained or derived from such electronic files shall be at the user's sole risk.

a. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it shall perform acceptance tests or procedures within 30 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 30 day acceptance period shall be corrected by the party delivering the electronic files. JEO shall not be responsible to maintain documents stored in electronic media format after acceptance by the client.

b. When transferring documents in electronic media format, JEO makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by JEO at the beginning of the project.

c. The client may make and retain copies of documents for information and reference in connection with use on the project by the client.

d. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

e. Any verification or adaptation of the documents by JEO for extensions of the project or for any other project shall entitle JEO to further compensation at rates to be agreed upon by the client and JEO.

9. SUBCONSULTANTS: JEO may employ consultants as JEO deems necessary to assist in the performance of the services. JEO shall not be required to employ any consultant unacceptable to JEO.

10. INDEMNIFICATION: To the fullest extent permitted by law, JEO and the client shall indemnify and hold each other harmless and their respective officers, directors, partners, employees, and consultants from and against any and all claims, losses, damages, and expenses (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution

costs) to the extent such claims, losses, damages, or expenses are caused by the indemnifying parties' negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of JEO and the client, they shall be borne by each party in proportion to its negligence.

11. INSURANCE: JEO shall procure and maintain the following insurance with limits not less than shown during the performance of services under this agreement:

a. Workers' Compensation: Statutory

b. Employer's Liability

i. Each Accident: \$500,000

ii. Disease, Policy Limit: \$500,000

iii. Disease, Each Employee: \$500,000

c. General Liability

i. Each Occurrence (Bodily Injury and Property Damage): \$1,000,000

ii. General Aggregate: \$2,000,000

d. Auto Liability

i. Combined Single: \$1,000,000

e. Excess or Umbrella Liability

i. Each Occurrence: \$1,000,000

ii. General Aggregate: \$1,000,000

f. Professional Liability:

i. Each Occurrence: \$1,000,000

ii. General Aggregate: \$2,000,000

g. All policies of property insurance shall contain provisions to the effect that JEO and JEO's consultants' interests are covered and that in the event of payment of any loss or damage the insurers shall have no rights of recovery against any of the insureds or additional insureds thereunder.

h. For projects with construction services, the client shall require the contractor to purchase and maintain general liability and other insurance as specified in the Contract Documents and to cause JEO and JEO's consultants to be listed as additional insured with respect to such liability and other insurance purchased and maintained by the contractor for the project.

i. The client shall reimburse JEO for any additional limits or coverages that the client requires for the project.

12. TERMINATION: This agreement may be terminated by either party upon 7 days prior written notice. In the event of termination, JEO shall be compensated by client for all services performed up to and including the termination date. The effective date of termination may be set up to thirty (30) days later than otherwise provided to allow JEO to demobilize personnel and equipment from the site, to complete tasks whose

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

GENERAL CONDITIONS

value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble project materials in orderly files.

13. GOVERNING LAW: This agreement is to be governed by the law of the state in which the project is located.

14. SUCCESSORS, ASSIGNS, AND BENEFICIARIES: The client and JEO each is hereby bound and the partners, successors, executors, administrators and legal representatives of the client and JEO are hereby bound to the other party to this agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, with respect to all covenants, agreements and obligations of this agreement.

a. Neither the client nor JEO may assign, sublet, or transfer any rights under or interest (including, but without limitation, monies that are due or may become due) in this agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under this agreement.

b. Unless expressly provided otherwise in this agreement: Nothing in this agreement shall be construed to create, impose, or give rise to any duty owed by the client or JEO to any contractor, contractor's subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them.

c. All duties and responsibilities undertaken pursuant to this agreement shall be for the sole and exclusive benefit of the client and JEO and not for the benefit of any other party.

15. PRECEDENCE: These standards, terms, and conditions shall take precedence over any inconsistent or contradictory language contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document regarding JEO's services.

16. SEVERABILITY: Any provision or part of the agreement held to be void or unenforceable shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the client and JEO, who agree that the agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as

possible to expressing the intention of the stricken provision.

17. NON-DISCRIMINATION CLAUSE: Pursuant to Neb. Rev. Stat. § 73-102, the parties declare, promise, and warrant that they have and will continue to comply fully with Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C.A § 1985, et seq.) and the Nebraska Fair Employment Practice Act, Neb. Rev. Stat. § 48-1101, et seq., in that there shall be no discrimination against any employee who is employed in the performance of this agreement, or against any applicant for such employment, because of age, color, national origin, race, religion, creed, disability or sex.

18. E-VERIFY: JEO shall register with and use the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986, to determine the work eligibility status of new employees physically performing services within the state where the work shall be performed. Engineer shall require the same of each consultant.

19. WAIVER OF CONSEQUENTIAL DAMAGES: Client and JEO expressly waive any and all claims for consequential damages for the Project including, but not limited to, loss of use, profits, business, reputation, financing, rental expenses, loss of income, and overhead.

20. DISPUTE RESOLUTION: In the event of any dispute between the Parties related to the Project, the Parties agree to first negotiate in good faith toward a resolution with participation by representatives of each Party holding sufficient authority to resolve the dispute. If such dispute cannot be resolved within fifteen (15) business days, before any action or litigation is initiated other than as required to secure lien rights, the dispute shall be submitted to mediation using a mediator mutually selected by the Parties. Such mediation shall be completed within forty-five (45) days of either the Party's written demand, with each Party to bear its share of the mediation fees and its own respective costs.

Contractor's Application for Payment

Owner: <u>City of David City</u>	Owner's Project No.: _____
Engineer: <u>JEO Consulting Group, Inc.</u>	Engineer's Project No.: <u>202024.00</u>
Contractor: <u>Velocity Constructors Inc.</u>	Contractor's Project No.: _____
Project: <u>2022 Water Treatment Plant Upgrades, SRF Project No. D311686</u>	
Contract: <u>2022 Water Treatment Plant Upgrades, SRF Project No. D311686</u>	
Application No.: <u>31</u>	Application Date: <u>2/1/2026</u>
Application Period: From <u>9/30/2025</u> to <u>2/1/2026</u>	

1. Original Contract Price		\$ 10,562,772.00
2. Net change by Change Orders		\$ 452,817.76
3. Current Contract Price (Line 1 + Line 2)		\$ 11,015,589.76
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)		\$ 11,015,589.76
5. Retainage		
a. <u>Reduced</u> X \$ 11,015,589.76 Work Completed =		\$ -
b. <u>5%</u> X \$ - Stored Materials =		\$ -
c. Total Retainage (Line 5.a + Line 5.b)		\$ -
6. Amount eligible to date (Line 4 - Line 5.c)		\$ 11,015,589.76
7. Less previous payments (Line 6 from prior application)		\$ 10,965,589.76
8. Amount due this application		\$ 50,000.00
9. Balance to finish, including retainage (Line 3 - Line 4 + Line 5.c)		\$ -

Contractor's Certification

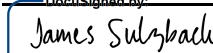
The undersigned Contractor certifies, to the best of its knowledge, the following:

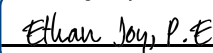
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: James Sulzbach - Project Manager Velocity Constructors

Signature:  **Date:** 2/5/2026

Recommended by Engineer	Approved by Owner
By: <u></u>	By: _____
Title: <u>Project Manager</u>	Title: _____
Date: <u>2/5/2026</u>	Date: _____

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	202024.00
Contractor:	Velocity Constructors Inc.	Contractor's Project No.:	
Project:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		
Contract:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		

Application No.:	31	Application Period:	From	09/30/25	to	02/01/26	Application Date:	02/01/26
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A	B	C	D	E	F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
Original Contract								
BASE BID GROUP A - General Water Plant Improvements¹								
B-1.01	Mobilization	1,030,293.00	1,030,293.00	-	-	1,030,293.00	100%	-
B-1.02	Bonding and Insurance	66,647.00	66,647.00	-	-	66,647.00	100%	-
B-1.03	Aerator Rehabilitation and Cleaning	114,481.00	114,481.00	-	-	114,481.00	100%	-
B-1.04	Existing Pipe Cleaning & Repainting	57,573.00	57,573.00	-	-	57,573.00	100%	-
B-1.05	Electrical Improvements, Complete	1,840,041.00	1,840,041.00	-	-	1,840,041.00	100%	-
B-1.06	Demolition of Exterior Infrastructure	32,732.00	32,732.00	-	-	32,732.00	100%	-
B-1.07	Demolition of Interior Infrastructure	90,500.00	90,500.00	-	-	90,500.00	100%	-
B-1.08	Building Improvements (Doors/Windows)	80,036.00	80,036.00	-	-	80,036.00	100%	-
B-1.09	Building Improvements (Interior Painting)	523,405.00	523,405.00	-	-	523,405.00	100%	-
B-1.10	First Floor Roof Membrane Replacement	174,179.00	174,179.00	-	-	174,179.00	100%	-
B-1.11	Skylight Replacement	48,568.00	48,568.00	-	-	48,568.00	100%	-
B-1.12	HVAC Improvements	148,128.00	148,128.00	-	-	148,128.00	100%	-
B-1.13	Plumbing Improvements	92,021.00	92,021.00	-	-	92,021.00	100%	-
B-1.14	Lab Improvements	21,099.00	21,099.00	-	-	21,099.00	100%	-
B-1.15	Hardness Monitoring Equipment and Meters	77,743.00	77,743.00	-	-	77,743.00	100%	-
B-1.16	Site Paving and Grading	58,690.00	58,690.00	-	-	58,690.00	100%	-
B-1.17	Fencing and Gates	58,513.00	58,513.00	-	-	58,513.00	100%	-
B-1.18	Misc. Site Improvements	148,846.00	148,846.00	-	-	148,846.00	100%	-
B-1.19	Exterior Piping Improvements	338,959.00	338,959.00	-	-	338,959.00	100%	-
B-1.20	Seeding, Fertilizer and Mulch	6,610.00	6,610.00	-	-	6,610.00	100%	-
B-1.21	Erosion Control	5,751.00	5,751.00	-	-	5,751.00	100%	-
BASE BID GROUP B - Gravity Filter System Improvements¹								
B-1.22	New Gravity Filter Equipment, Complete (Media/Wash Troughs/ Air Blower/ Control Panel / Solenoid Panel / Instrumentation / Piping / Valves / Media Strainers)	693,132.00	693,132.00	-	-	693,132.00	100%	-
B-1.23	Gravity Filter Equipment Installation	45,979.00	45,979.00	-	-	45,979.00	100%	-
B-1.24	Electrical	25,200.00	25,200.00	-	-	25,200.00	100%	-

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	202024.00
Contractor:	Velocity Constructors Inc.	Contractor's Project No.:	
Project:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		
Contract:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		

Application No.: 31 **Application Period:** From 09/30/25 to 02/01/26 **Application Date:** 02/01/26

A Item No.	B Description	C Scheduled Value (\$)	D + E Work Completed		F Currently Stored (not in D or E) (\$)	G Work Completed and Materials Stored to Date (D + E + F) (\$)	H % of Scheduled Value (G / C) (%)	I Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
BASE BID GROUP C - Reverse Osmosis¹								
B-1.25	CCRO and CIP Tank Skids (Equipment Only)	2,126,760.00	2,126,760.00	-	-	2,126,760.00	100%	-
B-1.26	CCRO and CIP Tank Skids (Installation)	7,208.00	7,208.00	-	-	7,208.00	100%	-
B-1.27	Existing Maintenance Facility Demolition	27,093.00	27,093.00	-	-	27,093.00	100%	-
B-1.28	RO Room Expansion, Block Construction	245,926.00	245,926.00	-	-	245,926.00	100%	-
B-1.29	New Existing Maintenance Facility Floor Pavement	3,174.00	3,174.00	-	-	3,174.00	100%	-
B-1.30	New Existing Maintenance Facility Roof	28,709.00	28,709.00	-	-	28,709.00	100%	-
B-1.31	Overhead Doors	22,781.00	22,781.00	-	-	22,781.00	100%	-
B-1.32	Access Doors	8,791.00	8,791.00	-	-	8,791.00	100%	-
B-1.33	Single Girder Bridge Crane & Hoist (Equipment Only)	20,361.00	20,361.00	-	-	20,361.00	100%	-
B-1.34	Single Girder Bridge Crane & Hoist (Installation)	12,387.00	12,387.00	-	-	12,387.00	100%	-
B-1.35	Below Grade CCRO Skid Piping, Complete	57,740.00	57,740.00	-	-	57,740.00	100%	-
B-1.36	Above Grade CCRO & CIP Skid Piping, Complete	129,743.00	129,743.00	-	-	129,743.00	100%	-
B-1.37	Electrical	10,080.00	10,080.00	-	-	10,080.00	100%	-
BASE BID GROUP D - Intermediate Clearwell¹								
B-1.38	Intermediate Clearwell Structural Concrete	170,506.00	170,506.00	-	-	170,506.00	100%	-
B-1.39	Clearwell Hatches	15,613.00	15,613.00	-	-	15,613.00	100%	-
B-1.40	Vertical Turbine Pumps	113,608.00	113,608.00	-	-	113,608.00	100%	-
B-1.41	Degassifier (Equipment Only)	112,153.00	112,153.00	-	-	112,153.00	100%	-
B-1.42	Degassifier (Installation)	6,407.00	6,407.00	-	-	6,407.00	100%	-
B-1.43	Pump Building, Block Construction	116,781.00	116,781.00	-	-	116,781.00	100%	-
B-1.44	Stairs and Miscellaneous Metals	4,603.00	4,603.00	-	-	4,603.00	100%	-
B-1.45	Clearwell Ladders	4,749.00	4,749.00	-	-	4,749.00	100%	-
B-1.46	Fluid Applied Exterior Membrane	103,757.00	103,757.00	-	-	103,757.00	100%	-
B-1.47	Intermediate Clearwell Piping, Fittings, Valves, Meters, Complete	77,335.00	77,335.00	-	-	77,335.00	100%	-
B-1.48	Weir Plate and Weir Window	4,398.00	4,398.00	-	-	4,398.00	100%	-
B-1.49	Electrical	50,400.00	50,400.00	-	-	50,400.00	100%	-

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	202024.00
Contractor:	Velocity Constructors Inc.	Contractor's Project No.:	
Project:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		
Contract:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		

Application No.: 31 **Application Period:** From 09/30/25 to 02/01/26 **Application Date:** 02/01/26

A	B	C	D	E	F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
BASE BID GROUP E - Chemical Feed System Improvements¹								
B-1.50	Chemical Feed System Improvements	149,305.00	149,305.00	-	-	149,305.00	100%	-
B-1.51	Gas Chlorine System Improvements	62,365.00	62,365.00	-	-	62,365.00	100%	-
B-1.52	Electrical	15,120.00	15,120.00	-	-	15,120.00	100%	-
BASE BID GROUP F - Backwash Improvements¹								
B-1.53	Backwash Waste Pump and Piping Improvements, Complete	161,971.00	161,971.00	-	-	161,971.00	100%	-
B-1.54	Proposed Manhole Improvements	1,551.00	1,551.00	-	-	1,551.00	100%	-
B-1.55	Backwash Pit Access Hatch	3,727.00	3,727.00	-	-	3,727.00	100%	-
B-1.56	Backwash Supply Pump and Piping Improvements, Complete	103,300.00	103,300.00	-	-	103,300.00	100%	-
B-1.57	Electrical/Generator	252,000.00	252,000.00	-	-	252,000.00	100%	-
Bid Alternate #1								
BA1-1	Gravity Filter Effluent Valve Replacement ¹	220,730.00	220,730.00	-	-	220,730.00	100%	-
Bid Alternate #2								
BA2-1	Demolish Existing Upflow Clarifier Unit, Complete ¹	113,190.00	113,190.00	-	-	113,190.00	100%	-
Original Contract Totals		\$ 10,343,448.00	\$ 10,343,448.00	\$ -	\$ -	\$ 10,343,448.00		\$ -
Change Orders								
CO-1	12" Underslab Pipe	54,560.00	54,560.00	-	-	54,560.00	100%	-
CO-2	Misc	84,742.51	84,742.51	-	-	84,742.51	100%	-
CO-3	Misc	114,989.00	114,989.00	-	-	114,989.00	100%	-
CO-4	Lights and Fence - Drive way	17,454.00	17,454.00	-	-	17,454.00	100%	-
CO-5	-Aggregate+Sink+Trans & BFV+Delay	72,262.00	72,262.00	-	-	72,262.00	100%	-
CO-6	Pump Overflow Landscaping and Overflow	68,810.25	68,810.25	-	-	68,810.25	100%	-
CO-7	Painting	40,000.00	40,000.00	-	-	40,000.00	100%	-
Change Order Totals		\$ 452,817.76	\$ 452,817.76	\$ -	\$ -	\$ 452,817.76	100%	\$ -
Unit Price								
B2	Install Aggregate	15,215.00	15,215.00	-	-	15,215.00	100%	-
B3	Final Clearwell Roof	14,030.00	14,030.00	-	-	14,030.00	100%	-
BA31	Install 6" Pavement	190,079.00	190,079.00	0	-	190,079.00	100%	-
Original Contract and Change Orders								
Project Totals		\$ 11,015,589.76	\$ 11,015,589.76	\$ -	\$ -	\$ 11,015,589.76	100%	\$ -

¹ Sales Tax for Materials & Equipment Included

Stored Materials Summary

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	202024.00
Contractor:	Velocity Constructors Inc.	Contractor's Project No.:	
Project:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		
Contract:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		

Application No.: 31 Application Period: From 09/30/25 to 02/01/26 Application Date: 02/01/26

A	B	C	D	E	F	G	H	I	J	K	L	M
Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab)	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Description of Materials or Equipment Stored	Storage Location	Application No. When Materials Placed in Storage	Materials Stored			Incorporated in Work			Materials Remaining in Storage (I - L) (\$)
						Previous Amount Stored (\$)	Amount Stored this Period (\$)	Amount Stored to Date (G + H) (\$)	Amount Previously Incorporated in the Work (\$)	Amount Incorporated in the Work this Period (\$)	Total Amount Incorporated in the Work (J + K) (\$)	
B-1.19	5894991		Yard Pipe	On Site	3	36,399.00	-	36,399.00	36,399.00		36,399.00	-
B-1.19	5898108		Yard Pipe	On Site	4	3,033.85	-	3,033.85	3,033.85		3,033.85	-
B-1.19	5835976		Yard Pipe	On Site	4	4,484.62	-	4,484.62	4,484.62		4,484.62	-
B-1.19	835125		Yard Pipe	On Site	4	6,039.99	-	6,039.99	6,039.99		6,039.99	-
B-1.19	896907		Yard Pipe	On Site	4	23,979.17	-	23,979.17	23,979.17		23,979.17	-
B-1.19	5897709		Yard Pipe	On Site	4	29,725.95	-	29,725.95	29,725.95		29,725.95	-
B-1.28 & 38			Rebar	On Site	4	33,900.00	-	33,900.00	33,900.00		33,900.00	-
B-1.19	T241554		Yard Pipe	On Site	5	370.34	-	370.34	370.34		370.34	-
B-1.19	T203897		Yard Pipe	On Site	5	520.82	-	520.82	520.82		520.82	-
B-1.19	T063762		Yard Pipe	On Site	5	1,012.90	-	1,012.90	1,012.90		1,012.90	-
B-1.24,37,49,52,57	Pay App 2		Electrical Fixtures	On Site	5	30,708.14	-	30,708.14	30,708.14		30,708.14	-
B1.56	0902556-IN		Electric Pumps	On Site	6	26,934.00	-	26,934.00	26,934.00		26,934.00	-
B1.47	34604		Mellen Valves PRV	On Site	7	27,865.08	-	27,865.08	27,865.08		27,865.08	-
B1.43	26123		Misc Metals Decking	On Site	7	5,000.00	-	5,000.00	5,000.00		5,000.00	-
B-1.57	13 Invoices		Electrical	On Site	7	112,151.76	-	112,151.76	112,151.76		112,151.76	-
B-1.22	92500		WesTech	Submittals	7	22,224.99	-	22,224.99	22,224.99		22,224.99	-
B1.31	228627		Overhead Doors	On Site	8	17,000.00	-	17,000.00	17,000.00		17,000.00	-
B-1.19	8 Invoices		Yard Pipe	On Site	9	15,646.65	-	15,646.65	15,646.65		15,646.65	-
B-1.47	Mellen		Air Vac	On Site	9	3,442.69	-	3,442.69	3,442.69		3,442.69	-
B-1.53	1 Invoice		Inside Pipe	On Site	9	23,997.39	-	23,997.39	23,997.39		23,997.39	-
B-1.17	T897108		Lang Fence	On Site	9	21,500.00	-	21,500.00	21,500.00		21,500.00	-
B-1.40			Vertical Turbine Pumps	On Site	10	85,940.88	-	85,940.88	85,940.88		85,940.88	-
B-1.05	HOA		Electrical HOA	Pictures	10	143,249.80	-	143,249.80	143,249.80		143,249.80	-
B-1.22	Mellen		Gate Valves	On Site	10	20,930.00	-	20,930.00	20,930.00		20,930.00	-
B-1.47	C&M		Clearwell Pipe	On Site	10	6,053.55	-	6,053.55	6,053.55		6,053.55	-
B-1.22	Vessco		Blower	On Site	11	50,000.00	-	50,000.00	50,000.00		50,000.00	-
B-1.25	Gurney		Split Case Pump	On Site	11	18,227.00	-	18,227.00	18,227.00		18,227.00	-
B1.47	8 Invoices		Piping	On Site	11	29,798.29	-	29,798.29	29,798.29		29,798.29	-
B-1.50	Gurney		Chem Feed	On Site	12	113,869.00	-	113,869.00	113,869.00		113,869.00	-
B-1.22	WesTech		Troughs	On Site	12	103,664.94	-	103,664.94	103,664.94		103,664.94	-
B-1.56	Mellen		Valves	On Site	12	7,651.85	-	7,651.85	7,651.85		7,651.85	-
B-1.56	3 Invoice		Inside Piping	Onsite	12	34,824.08	-	34,824.08	34,824.08		34,824.08	-
B-1.22	94231		Filter Rehab - WesTech	Onsite	13	187,247.48	-	187,247.48	187,247.48		187,247.48	-
B-1.22	35522		Mellen - Valves	Onsite	13	90,506.40	-	90,506.40	90,506.40		90,506.40	-
B-1.19	35489		Mellen - Valves	Onsite	13	24,828.20	-	24,828.20	24,828.20		24,828.20	-
B-1.19	35608		Mellen - Valves	Onsite	13	44,019.10	-	44,019.10	44,019.10		44,019.10	-
B-1.36	10 Inv		Core and Main - Piping	Onsite	13	39,821.77	-	39,821.77	39,821.77		39,821.77	-
B-1.11	Pay App 1		Skylight	Onsite	14	24,882.00	-	24,882.00	24,882.00		24,882.00	-
B1.18,44,45,48,BA2-1	Pay App		Misc Metals Decking	Onsite	14	45,000.00	-	45,000.00	45,000.00		45,000.00	-
BA1-1	35785		Valves	Onsite	14	50,000.00	-	50,000.00	50,000.00		50,000.00	-
B-1.19	CI 438085		RCP	Onsite	14	2,671.00	-	2,671.00	2,671.00		2,671.00	-
B-1.36	U550028		Piping	Onsite	14	6,933.75	-	6,933.75	6,933.75		6,933.75	-
B-1.05	11766		Enclosures	Onsite	14	13,819.66	-	13,819.66	13,819.66		13,819.66	-
B-1.53	2212-15350		Valves	Onsite	14	30,555.80	-	30,555.80	30,555.80		30,555.80	-
B-1.08	Pay App		Misc Metals Decking	Onsite	14	40,000.00	-	40,000.00	40,000.00		40,000.00	-
B-1.36			Check Valves	Onsite	15	15,817.55	-	15,817.55	15,817.55		15,817.55	-

Stored Materials Summary

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	202024.00
Contractor:	Velocity Constructors Inc.	Contractor's Project No.:	
Project:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		
Contract:	2022 Water Treatment Plant Upgrades, SRF Project No. D311686		

Application No.:		31		Application Period:		From		09/30/25		to		02/01/26		Application Date:		02/01/26			
A	B	C	D	E	F	G	H	I	J	K	L	M							
Item No. (Lump Sum Tab) or Bid Item No. (Unit Price Tab)	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Description of Materials or Equipment Stored	Storage Location	Application No. When Materials Placed in Storage	Materials Stored			Incorporated in Work			Materials Remaining in Storage (I - L) (\$)							
						Previous Amount Stored (\$)	Amount Stored this Period (\$)	Amount Stored to Date (G + H) (\$)	Amount Previously Incorporated in the Work (\$)	Amount Incorporated in the Work this Period (\$)	Total Amount Incorporated in the Work (J + K) (\$)								
B-1.25			RO Submittal	Submittals	15	182,064.25		182,064.25	182,064.25		182,064.25		-						
B-1.14			Plastic Cabinets	Onsite	15	18,159.93		18,159.93	18,159.93		18,159.93		-						
B1.36			Check Valves	Onsite	16	15,817.55		15,817.55	15,817.55		15,817.55		-						
B1.05	2 Invoices		Programing	Onsite	16	42,045.13		42,045.13	42,045.13		42,045.13		-						
B1.36	3 Invoice		Piping	Onsite	16	5,042.47		5,042.47	5,042.47		5,042.47		-						
B1.36	008L0183		RO Piping	Onsite	18	15,316.81	-	15,316.81	15,316.81		15,316.81		-						
													-						
													-						
Totals						\$	1,954,695.58	\$	-	\$	1,954,695.58	\$	1,954,695.58	\$	-	\$	1,954,695.58	\$	-

Contractor's Application for Payment

Owner: <u>City of David City</u>	Owner's Project No.: _____
Engineer: <u>JEO Consulting Group, Inc.</u>	Engineer's Project No.: <u>251034.00</u>
Contractor: <u>BRB Contractors, Inc.</u>	Contractor's Project No.: <u>NE3DAV</u>
Project: <u>David City Wastewater Treatment Facility Improvements</u>	
Contract: <u>David City Wastewater Treatment Facility Improvements</u>	
Application No.: <u>24</u>	Application Date: <u>2/24/2026</u>
Application Period: From <u>1/28/2026</u> to <u>2/24/2026</u>	

1. Original Contract Price	\$ 16,882,000.00
2. Net change by Change Orders	\$ 1,294,391.59
3. Current Contract Price (Line 1 + Line 2)	\$ 18,176,391.59
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 16,723,813.41
5. Retainage	
a. <u>5%</u> X <u>\$ 15,549,928.95</u> Work Completed =	\$ 777,496.45
b. <u>5%</u> X <u>\$ 1,173,884.46</u> Stored Materials =	\$ 58,694.22
c. Total Retainage (Line 5.a + Line 5.b)	\$ 836,190.67
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 15,887,622.74
7. Less previous payments (Line 6 from prior application)	\$ 15,427,829.31
8. Amount due this application	\$ 459,793.43
9. Balance to finish, including retainage (Line 3 - Line 4 + Line 5.c)	\$ 2,288,768.85

Contractor's Certification

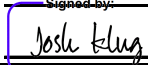
The undersigned Contractor certifies, to the best of its knowledge, the following:

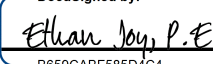
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor: BRB Contractors, Inc.

Signature:  **Date:** 2/26/2026

Recommended by Engineer	Approved by Owner
By: <u></u>	By: _____
Title: <u>Project Manager</u>	Title: <u>Mayor</u>
Date: <u>2/26/2026</u>	Date: _____
Approved by Funding Agency	
By: <u>N/A</u>	By: <u>N/A</u>
Title: _____	Title: _____
Date: _____	Date: _____

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.:	24	Application Period:	From 01/28/26 to 02/24/26	Application Date:	02/24/26
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A	B	C	D	E	F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
Original Contract								
GENERAL SITEWORK								
1	Mobilize	\$ 750,000.00	750,000.00			750,000.00	100%	-
2	Bonds and Insurance	\$ 180,000.00	180,000.00			180,000.00	100%	-
3	SWPP Items	\$ 25,000.00	23,500.00			23,500.00	94%	1,500.00
4	Site Clearing	\$ 30,000.00	30,000.00			30,000.00	100%	-
5	12" & 16" Forcemain Piping	\$ 300,000.00	297,557.08	2,442.92		300,000.00	100%	-
6	Other Piping/Valves	\$ 1,395,000.00	1,178,000.00	30,000.00	103,568.54	1,311,568.54	94%	83,431.46
7	Precast Manholes	\$ 65,000.00	60,000.00			60,000.00	92%	5,000.00
8	Instrumentation & Control	\$ 50,000.00	15,000.00	10,000.00	15,096.14	40,096.14	80%	9,903.86
9	Electrical/Generator Work	\$ 125,000.00	112,500.00			112,500.00	90%	12,500.00
HEADWORKS BUILDING								
10	Excavation & Backfill	\$ 150,000.00	125,000.00	10,000.00		135,000.00	90%	15,000.00
11	Concrete Base Structure	\$ 500,000.00	500,000.00			500,000.00	100%	-
12	Concrete Walls Structure	\$ 1,207,000.00	1,207,000.00			1,207,000.00	100%	-
13	Concrete Floor/Deck Structure	\$ 350,000.00	350,000.00			350,000.00	100%	-
14	Misc. Metals Furnish/Install	\$ 50,000.00	50,000.00			50,000.00	100%	-
15	Masonry Above Structure	\$ 225,000.00	225,000.00			225,000.00	100%	-
16	Doors & Windows Furnish/Install	\$ 65,000.00	65,000.00			65,000.00	100%	-
17	Roof Trusses Furnish/Install	\$ 45,000.00	45,000.00			45,000.00	100%	-
18	Standing Seam Roof & Specialties	\$ 100,000.00	80,000.00	20,000.00		100,000.00	100%	-
19	Slide Gates Furnish/Install	\$ 100,000.00	100,000.00			100,000.00	100%	-
20	Bar Screen Furnish/Install	\$ 200,000.00	185,000.00			185,000.00	93%	15,000.00
21	Grit Equipment, Valves, Flumes Furnish/Install	\$ 1,300,000.00	1,215,000.00	25,000.00		1,240,000.00	95%	60,000.00
22	Parshall Flume	\$ 10,000.00	10,000.00			10,000.00	100%	-
23	Indoor Sampler	\$ 20,000.00	-	20,000.00		20,000.00	100%	-
24	Painting Structure	\$ 40,000.00	40,000.00			40,000.00	100%	-
25	Instrumentation & Control Work	\$ 950,000.00	713,253.00		76,175.90	789,428.90	83%	160,571.10
26	Mechanical Work (both buildings)	\$ 270,000.00	120,000.00	105,000.00		225,000.00	83%	45,000.00
27	Electrical Work	\$ 700,000.00	584,500.00	55,000.00	2,200.28	641,700.28	92%	58,299.72
AGP FLUME NO. 20								
28	Excavation & Backfill	\$ 15,000.00	13,000.00			13,000.00	87%	2,000.00
29	Concrete Base	\$ 20,000.00	20,000.00			20,000.00	100%	-
30	Concrete Walls	\$ 42,000.00	42,000.00			42,000.00	100%	-
31	Misc. Metals Furnish/Install	\$ 10,000.00	8,500.00			8,500.00	85%	1,500.00
32	Equipment Flume Install	\$ 15,000.00	15,000.00			15,000.00	100%	-
INFLUENT PUMP STATION								
33	Excavation & Backfill	\$ 160,000.00	155,000.00			155,000.00	97%	5,000.00
34	Concrete Base	\$ 50,000.00	50,000.00			50,000.00	100%	-

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.:	24	Application Period:	From 01/28/26 to 02/24/26	Application Date:	02/24/26
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A	B	C	D + E		F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
35	Concrete Walls	\$ 327,000.00	327,000.00			327,000.00	100%	-
36	Concrete Roof	\$ 100,000.00	100,000.00			100,000.00	100%	-
37	Misc. Metals Finish/Install	\$ 50,000.00	50,000.00			50,000.00	100%	-
38	Furnish & Install Pumps	\$ 525,000.00	498,750.00			498,750.00	95%	26,250.00
39	Furnish & Install Jib Crane & Foundation	\$ 50,000.00	-	35,000.00	9,145.00	44,145.00	88%	5,855.00
40	Painting Work	\$ 35,000.00	35,000.00			35,000.00	100%	-
41	Electrical Work	\$ 50,000.00	30,000.00	10,000.00		40,000.00	80%	10,000.00
	NEW SBR STRUCTURE							
42	Excavation & Backfill	\$ 350,000.00	335,000.00	15,000.00		350,000.00	100%	-
43	SBR Concrete Base Sections	\$ 520,000.00	520,000.00			520,000.00	100%	-
44	SBR Concrete Wall Sections	\$ 1,261,000.00	1,261,000.00			1,261,000.00	100%	-
45	SBR Basin Equipment Aeration	\$ 1,000,000.00	977,000.00	23,000.00		1,000,000.00	100%	-
46	SBR Basin Equipment Pumps	\$ 50,000.00	48,000.00	2,000.00		50,000.00	100%	-
47	Misc. Metals Furnish/Install	\$ 40,000.00	22,000.00	15,000.00		37,000.00	93%	3,000.00
48	Painting Work	\$ 15,000.00	15,000.00			15,000.00	100%	-
49	Electrical Work	\$ 50,000.00	50,000.00			50,000.00	100%	-
	BLOWER BUILDING MODIFICATIONS							
50	Concrete Floor/Wall Demolition	\$ 15,000.00	15,000.00			15,000.00	100%	-
51	Excavation & Backfill	\$ 15,000.00	15,000.00			15,000.00	100%	-
52	New Concrete Floor and Blower Bases	\$ 35,000.00	32,000.00			32,000.00	91%	3,000.00
53	New Masonry Wall/Misc. Infill	\$ 7,500.00	7,500.00			7,500.00	100%	-
54	Furnish & Install Doors	\$ 7,500.00	7,500.00			7,500.00	100%	-
55	Furnish & Install New/Existing SBR Blowers	\$ 400,000.00	400,000.00			400,000.00	100%	-
56	Painting Work	\$ 20,000.00	20,000.00			20,000.00	100%	-
57	Instrumentation & Control Work	\$ 150,000.00	141,000.00	5,000.00		146,000.00	97%	4,000.00
58	Electrical Work	\$ 100,000.00	99,000.00			99,000.00	99%	1,000.00
	EXISTING SBR BASIN MODIFICATIONS							
59	Remove Existing Equipment & Piping	\$ 50,000.00	-			-	0%	50,000.00
60	Existing SBR Basin Equipment Aeration	\$ 1,000,000.00	5,000.00		882,316.62	887,316.62	89%	112,683.38
61	Existing SBR Basin Equipment Pumps	\$ 50,000.00	-		29,535.50	29,535.50	59%	20,464.50
62	Misc. Metals Furnish/Install	\$ 40,000.00	-		31,650.00	31,650.00	79%	8,350.00
63	Construct New SBR Splitter Box	\$ 174,000.00	174,000.00			174,000.00	100%	-
64	Painting Work	\$ 20,000.00	-			-	0%	20,000.00
65	Electrical Work	\$ 50,000.00	5,000.00			5,000.00	10%	45,000.00
	STORAGE BUILDING							
66	Excavation & Backfill	\$ 35,000.00	35,000.00			35,000.00	100%	-
67	Building Drainage Piping & Oil Separator	\$ 40,000.00	40,000.00			40,000.00	100%	-
68	Concrete Foundations	\$ 40,000.00	40,000.00			40,000.00	100%	-
69	Concrete Floor	\$ 56,000.00	56,000.00			56,000.00	100%	-

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.: 24 **Application Period:** From 01/28/26 to 02/24/26 **Application Date:** 02/24/26

A	B	C	D + E		F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
70	New Building Walls and Roof	\$ 270,000.00	257,259.00			257,259.00	95%	12,741.00
71	Doors & Windows	\$ 40,000.00	40,000.00			40,000.00	100%	-
72	Painting Work	\$ 30,000.00	-			-	0%	30,000.00
73	Electrical Work	\$ 75,000.00	22,000.00		10,000.00	32,000.00	43%	43,000.00
	DEMO EXISTING HEADWORKS BUILDING		-			-		-
74	Demolition of Existing Building Complete	\$ 30,000.00	-			-	0%	30,000.00
	CLOSEOUT		-			-		-
75	Site Grading	\$ 25,000.00	-			-	0%	25,000.00
76	SBR/Storage Building Sidewalks	\$ 25,000.00	-			-	0%	25,000.00
77	Concrete Paving	\$ 20,000.00	-			-	0%	20,000.00
78	Seeding & Mulch	\$ 15,000.00	-			-	0%	15,000.00
79	Crushed Rock Surfacing Roads	\$ 80,000.00	-			-	0%	80,000.00
80	Fence & Gate System	\$ 30,000.00	-			-	0%	30,000.00
Original Contract Totals		\$ 16,882,000.00	\$ 14,244,819.08	\$ 382,442.92	\$ 1,159,687.98	\$ 15,786,949.98	94%	\$ 1,095,050.02

Stored Materials Summary

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.:		Application Period:		From	to	Application Date:						
24		01/28/26		01/28/26	02/24/26	02/24/26						
A	B	C	D	E	F	G	H	I	J	K	L	M
Item No. (Lump Sum Tab or Bid Item No. (Unit Price Tab))	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Description of Materials or Equipment Stored	Storage Location	Application No. When Materials Placed in Storage	Materials Stored			Incorporated in Work			Materials Remaining in Storage (I - L) (\$)
						Previous Amount Stored (\$)	Amount Stored this Period (\$)	Amount Stored to Date (G + H) (\$)	Amount Previously Incorporated in the Work (\$)	Amount Incorporated in the Work this Period (\$)	Total Amount Incorporated in the Work (J + K) (\$)	
	105795-1		Aqua Aerobics Down Payment			261,353.50		261,353.50	261,353.50		261,353.50	-
	50026177578		Rebar			19,091.30		19,091.30	19,091.30		19,091.30	-
	50026159555		Rebar			28,359.32		28,359.32	28,359.32		28,359.32	-
	50026147392		Rebar			26,753.09		26,753.09	26,753.09		26,753.09	-
	50026147072		Rebar			29,743.20		29,743.20	29,743.20		29,743.20	-
	50026147071		Rebar			29,743.20		29,743.20	29,743.20		29,743.20	-
	50026114832		Rebar			29,743.20		29,743.20	29,743.20		29,743.20	-
	50026127187		Rebar			22,299.72		22,299.72	22,299.72		22,299.72	-
	50026303876		Rebar			30,145.37		30,145.37	30,145.37		30,145.37	-
	0755219-1		Polywrap			1,964.40		1,964.40	1,964.40		1,964.40	-
	755226		Polywrap			420.00		420.00	420.00		420.00	-
	755219		Polywrap			3,170.72		3,170.72	3,170.72		3,170.72	-
	27693		HME Shop Drawings			6,675.00		6,675.00	6,675.00		6,675.00	-
	50026415841		Rebar			17,736.06		17,736.06	17,736.06		17,736.06	-
	50026367581		Rebar			26,960.24		26,960.24	26,960.24		26,960.24	-
	50026337203		Rebar			26,014.37		26,014.37	26,014.37		26,014.37	-
	50026192138		Rebar			18,469.82		18,469.82	18,469.82		18,469.82	-
	94020		SBR Wall Valves			76,643.95		76,643.95	76,643.95		76,643.95	-
	755902		Ductile Iron Pipe			18,451.18		18,451.18	18,451.18		18,451.18	-
	755171		Project Manager			15,132.60		15,132.60	15,132.60		15,132.60	-
	50026489471		Rebar			650.00		650.00	650.00		650.00	-
	50026599911		Rebar			5,675.00		5,675.00	5,675.00		5,675.00	-
	50026604462		Rebar			2,179.06		2,179.06	2,179.06		2,179.06	-
			Concrete Expansion Joints			5,892.80		5,892.80	5,892.80		5,892.80	-
	105795-2		Aqua Aerobics - Second Payment			522,707.00		522,707.00	522,707.00		522,707.00	-
	0756281-2		Ductile Iron Pipe and Accessories			1,975.74		1,975.74	1,975.74		1,975.74	-
	0756281-1		Ductile Iron Pipe and Accessories			10,440.99		10,440.99	10,440.99		10,440.99	-
	757833		24" PVC Pipe			83,203.12		83,203.12	-		-	83,203.12
	0755902-1		Ductile Iron Pipe and Accessories			21,275.08		21,275.08	21,275.08		21,275.08	-
	757699		Ductile Iron Pipe and Accessories			622.71		622.71	622.71		622.71	-
	755893		Ductile Iron Pipe and Accessories			22,446.17		22,446.17	22,446.17		22,446.17	-
	756281		Ductile Iron Pipe and Accessories			5,056.44		5,056.44	5,056.44		5,056.44	-
	94511		Butterfly Valves and Accessories			128,612.31		128,612.31	128,612.31		128,612.31	-
	94275		Air Release Valves			7,803.31		7,803.31	-		-	7,803.31
	27920		HME Shop Drawings			20,025.00		20,025.00	20,025.00		20,025.00	-
	0174120-IN		Hatches and Crane Equipment			30,750.00		30,750.00	21,605.00		21,605.00	9,145.00
	0756281-3		Ductile Iron Pipe and Accessories			3,181.29		3,181.29	3,181.29		3,181.29	-
	2022-113		Electrical Stored Materials			36,633.43		36,633.43	36,633.43		36,633.43	-
	759894		Ductile Iron Forcemain Pipe			184,557.08		184,557.08	184,557.08		184,557.08	-
	94711		Valves			116,428.37		116,428.37	116,428.37		116,428.37	-
	0755902-2		Ductile Iron Pipe			23,676.17		23,676.17	23,676.17		23,676.17	-
	50027906312		Rebar			27,202.03		27,202.03	27,202.03		27,202.03	-
	50027701696		Rebar			2,573.98		2,573.98	2,573.98		2,573.98	-
	50027633543		Rebar			14,510.75		14,510.75	14,510.75		14,510.75	-
	50027614897		Rebar			20,282.00		20,282.00	20,282.00		20,282.00	-
	95073		Gates/Valves/Flumes			10,622.32		10,622.32	10,622.32		10,622.32	-
	94913		Gates/Valves/Flumes			135,104.83		135,104.83	135,104.83		135,104.83	-
	0759894-2		Ductile Iron Pipe			89,965.26		89,965.26	89,965.26		89,965.26	-
	0759894-1		Ductile Iron Pipe			48,516.80		48,516.80	48,516.80		48,516.80	-
	760997		Ductile Iron Pipe			30,341.68		30,341.68	30,341.68		30,341.68	-

Stored Materials Summary

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.:		24		Application Period:		From	01/28/26	to	02/24/26	Application Date:		02/24/26
Item No. (Lump Sum Tab or Bid Item No. (Unit Price Tab)	Supplier Invoice No.	Submittal No. (with Specification Section No.)	Description of Materials or Equipment Stored	Storage Location	Application No. When Materials Placed in Storage	Materials Stored			Incorporated in Work			Materials Remaining in Storage (I - L) (\$)
						Previous Amount Stored (\$)	Amount Stored this Period (\$)	Amount Stored to Date (G + H) (\$)	Amount Previously Incorporated in the Work (\$)	Amount Incorporated in the Work this Period (\$)	Total Amount Incorporated in the Work (J + K) (\$)	
	0757692-1		Ductile Iron Pipe			6,545.67		6,545.67	6,545.67		6,545.67	-
	757692		Ductile Iron Pipe			34,436.37		34,436.37	34,436.37		34,436.37	-
	8635424-01		Electrical Stored Materials			1,893.10		1,893.10	1,893.10		1,893.10	-
	8653766-00		Electrical Stored Materials			1,344.01		1,344.01	1,344.01		1,344.01	-
	8635424-00		Electrical Stored Materials			1,029.30		1,029.30	1,029.30		1,029.30	-
	8651280-00		Electrical Stored Materials			249.97		249.97	249.97		249.97	-
	8602508-01		Electrical Stored Materials			5,846.58		5,846.58	5,846.58		5,846.58	-
	8602508-02		Electrical Stored Materials			18,107.44		18,107.44	18,107.44		18,107.44	-
	8634948-00		Electrical Stored Materials			10.92		10.92	10.92		10.92	-
	2022-119		Electrical Stored Materials			5,915.24		5,915.24	5,915.24		5,915.24	-
	95314		Valves			35,962.26		35,962.26	35,962.26		35,962.26	-
	95296		Valves			5,507.18		5,507.18	5,507.18		5,507.18	-
	95194		Valves			64,227.99		64,227.99	64,227.99		64,227.99	-
	0760997-1		Embedded Wall Pipe			10,490.00		10,490.00	10,490.00		10,490.00	-
	761001		Embedded Wall Pipe			10,763.56		10,763.56	10,763.56		10,763.56	-
	759887		Ductile Iron Fittings			14,654.75		14,654.75	14,654.75		14,654.75	-
	0760997-2		Ductile Iron Pipe			18,733.52		18,733.52	18,733.52		18,733.52	-
	50028222134		Headworks Area Rebar			17,661.05		17,661.05	17,661.05		17,661.05	-
	50028559050		Generator Pad Rebar			5,316.85		5,316.85	5,316.85		5,316.85	-
	95460		Valves			9,113.55		9,113.55	9,113.55		9,113.55	-
	765559		Ductile Iron Pipe			11,022.47		11,022.47	11,022.47		11,022.47	-
	765117		Ductile Iron Pipe			95,948.26		95,948.26	95,948.26		95,948.26	-
	764836		Ductile Iron Pipe			22,291.21		22,291.21	22,291.21		22,291.21	-
	764427		Ductile Iron Pipe			2,800.00		2,800.00	2,800.00		2,800.00	-
	0764836-1		Ductile Iron Pipe			9,449.42		9,449.42	9,449.42		9,449.42	-
	764846		Ductile Iron Pipe			21,007.67		21,007.67	21,007.67		21,007.67	-
	0765117-2		Ductile Iron Pipe			21,792.38		21,792.38	21,792.38		21,792.38	-
	8653766-01		Electrical Stored Materials			6,180.00		6,180.00	6,180.00		6,180.00	-
	8635424-02		Electrical Stored Materials			9,419.62		9,419.62	9,419.62		9,419.62	-
	8635424-03		Electrical Stored Materials			5,327.55		5,327.55	5,327.55		5,327.55	-
	8658232-00		Electrical Stored Materials			20,413.00		20,413.00	20,413.00		20,413.00	-
	8635424-04		Electrical Stored Materials			4,119.52		4,119.52	4,119.52		4,119.52	-
	8666003-00		Electrical Stored Materials			8,910.00		8,910.00	8,910.00		8,910.00	-
	8602508-03		Electrical Stored Materials			5,317.25		5,317.25	5,317.25		5,317.25	-
	8658232-02		Electrical Stored Materials			31,315.00		31,315.00	31,315.00		31,315.00	-
	8658232-01		Electrical Stored Materials			32,956.00		32,956.00	32,956.00		32,956.00	-
	NECOL256197		Electrical Stored Materials			301.18		301.18	-	301.18	301.18	-
	79795		Electrical Stored Materials			270.00		270.00	-	270.00	270.00	-
	12251		HOA Progress Billing			227,884.60		227,884.60	227,884.60		227,884.60	-
	27665		Submersible Pumps			432,500.00		432,500.00	432,500.00		432,500.00	-
	0174897-IN		Hoist			19,110.00		19,110.00	19,110.00		19,110.00	-
	0765117-6		Pipe and Fittings			9,402.29		9,402.29	9,402.29		9,402.29	-
	0765117-5		Pipe and Fittings			39,726.61		39,726.61	39,726.61		39,726.61	-
	0765117-4		Pipe and Fittings			6,442.13		6,442.13	6,442.13		6,442.13	-
	0760997-3		Pipe and Fittings			26,816.12		26,816.12	26,816.12		26,816.12	-
	0765117-3		Pipe and Fittings			578.28		578.28	578.28		578.28	-
	766259		Pipe and Fittings			21,663.44		21,663.44	21,663.44		21,663.44	-
	764818		Pipe and Fittings			25,146.59		25,146.59	25,146.59		25,146.59	-
	95755		Valves			33,531.00		33,531.00	33,531.00		33,531.00	-
	8635424-05		Electrical Stored Materials			386.20		386.20	386.20		386.20	-

Stored Materials Summary

Contractor's Application for Payment

Owner:	City of David City	Owner's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	251034.00
Contractor:	BRB Contractors, Inc.	Contractor's Project No.:	NE3DAV
Project:	David City Wastewater Treatment Facility Improvements		
Contract:	David City Wastewater Treatment Facility Improvements		

Application No.:	24	Application Period:	From 01/28/26 to 02/24/26	Application Date:	02/24/26
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A Item No. (Lump Sum Tab or Bid Item No. (Unit Price Tab)	B Supplier Invoice No.	C Submittal No. (with Specification Section No.)	D Description of Materials or Equipment Stored	E Storage Location	F Application No. When Materials Placed in Storage	G, H, I Materials Stored			J, K, L Incorporated in Work			M Materials Remaining in Storage (I - L) (\$)
						G Previous Amount Stored (\$)	H Amount Stored this Period (\$)	I Amount Stored to Date (G + H) (\$)	J Amount Previously Incorporated in the Work (\$)	K Amount Incorporated in the Work this Period (\$)	L Total Amount Incorporated in the Work (J + K) (\$)	
	8658653-00		Electrical Stored Materials			1,335.00		1,335.00	1,335.00		1,335.00	-
	8602508-04		Electrical Stored Materials			373.10		373.10	373.10		373.10	-
	8694471-00		Electrical Stored Materials			266.93		266.93	266.93		266.93	-
	8602508-05		Electrical Stored Materials			2,328.26		2,328.26	2,328.26		2,328.26	-
	8635424-06		Electrical Stored Materials			12,514.95		12,514.95	6,000.00	6,514.95	12,514.95	-
	8792		Grit Pump			23,395.00		23,395.00	23,395.00		23,395.00	-
	29452		Handrail			12,300.00		12,300.00	7,000.00	5,300.00	12,300.00	-
	568		HVAC: Air Conditioners			16,920.00		16,920.00	-	16,920.00	16,920.00	-
	0765117-7		Pipe and Fittings			2,528.22		2,528.22	2,528.22		2,528.22	-
	766417		Piping System/Ball Valves			3,112.76		3,112.76	3,112.76		3,112.76	-
	770080		Pipe and Fittings			4,184.11		4,184.11	4,184.11		4,184.11	-
	765579		Pipe and Fittings			33,920.76		33,920.76	33,920.76		33,920.76	-
	0057750-IN		Sand/Oil Trap			10,900.00		10,900.00	10,900.00		10,900.00	-
	29678		Ladders			8,250.00		8,250.00	-	8,250.00	8,250.00	-
	769915		Pipe and Fittings			17,343.56		17,343.56	17,343.56		17,343.56	-
	1045880		Aqua Aerobics SBR Equipment			254,849.56		254,849.56	250,000.00		250,000.00	4,849.56
	1046052		Aqua Aerobics SBR Equipment			703,753.84		703,753.84	-		-	703,753.84
	24105-18870		Bar Screen			127,871.00		127,871.00	127,871.00		127,871.00	-
	92726-00		Generator			82,368.00		82,368.00	82,368.00		82,368.00	-
	8653766-02		Electrical Stored Materials			12,200.28		12,200.28	-		-	12,200.28
	1046371		Aqua Aerobics SBR Equipment			56,029.84		56,029.84	-		-	56,029.84
	448099		Precast Manholes			6,829.90		6,829.90	6,829.90		6,829.90	-
	448100		Precast Manholes			6,367.98		6,367.98	6,367.98		6,367.98	-
	1046768		Aqua Aerobic Equipment			456,848.92		456,848.92	208,871.77		208,871.77	247,977.15
	1046711		Aqua Aerobic Equipment			4,266.73		4,266.73	-		-	4,266.73
	769540		Pipe and Fittings			10,912.32		10,912.32	7,718.29		7,718.29	3,194.03
	777143		Pipe and Fittings			9,368.08		9,368.08	-		-	9,368.08
	50030735331		Blower Room Rebar			4,203.29		4,203.29	4,203.29		4,203.29	-
	50113091		Doors and Frames			30,000.00		30,000.00	30,000.00		30,000.00	-
	1047062		Aqua Aerobic Equipment			75,103.16		75,103.16	75,103.16		75,103.16	-
	12687		Instrumentation Equipment			55,490.40		55,490.40	55,490.40		55,490.40	-
	97508		Slide Gates			277,359.52		277,359.52	277,359.52		277,359.52	-
	777559		Ductile Iron Pipe and Fittings (SBR)			33,415.07		33,415.07	33,415.07		33,415.07	-
	777526		Ductile Iron Pipe and Fittings (Blower)			7,835.01		7,835.01	7,835.01		7,835.01	-
	0777559-1		Ductile Iron Pipe and Fittings (SBR)			17,352.34		17,352.34	17,352.34		17,352.34	-
	30706		Misc Steel			81,605.00		81,605.00	50,975.00	12,732.96	63,707.96	17,897.04
	12743		Motor Control Centers and Drives			438,253.00		438,253.00	438,253.00		438,253.00	-
	97802		Slide Gate Actuator			22,576.82		22,576.82	-	22,576.82	22,576.82	-
	97966		Grit Removal System			227,316.00		227,316.00	201,732.08	25,583.92	227,316.00	-
6	781379		Ductile Iron Pipe and Fittings			6,995.20		6,995.20	6,995.20		6,995.20	-
6	0779486-1		Ductile Iron Pipe and Fittings			5,131.29		5,131.29	5,131.29		5,131.29	-
6	0799486-2		Ductile Iron Pipe and Fittings			93,081.78		93,081.78	93,081.78		93,081.78	-
6	0777559-2		Ductile Iron Pipe and Fittings			11,821.88		11,821.88	11,821.88		11,821.88	-
6	780229		14" SBR Pipe			4,492.31		4,492.31	4,492.31		4,492.31	-
	IN108191		Doors and Frames			16,637.14		16,637.14	16,637.14		16,637.14	-
	133739		Headworks Trusses (Partial)			4,925.00		4,925.00	4,925.00		4,925.00	-
	781551		Ductile Iron Pipe and Fittings			12,310.45		12,310.45	12,310.45		12,310.45	-
	0785422-1		Ductile Iron Fittings (Blower)			9,229.73		9,229.73	9,229.73		9,229.73	-
CO 7	0793899-2		Ductile Iron Fittings (SBRs)			30,196.48		30,196.48	16,000.00		16,000.00	14,196.48
Totals						\$ 7,068,288.03	\$ -	\$ 7,068,288.03	\$ 5,795,953.74	\$ 98,449.83	\$ 5,894,403.57	\$ 1,173,884.46

WH483/WR483

General Features

The model WH483 or WR483 grinder pump station is a complete unit that includes: three grinder pumps, check valve, polyethylene tank, controls, and alarm panel. Designed for higher flow applications where local codes dictate higher storage requirements. The lower portion of the tank has a smaller diameter, tapered down to a dish-shaped bottom. The large tank access opening easily accommodates installation of the grinder pumps and equipment.

- Rated for flows of 5000 gpd (18,927 lpd)
- 486 gallons (1840 liters) of capacity
- Standard outdoor heights range from 75 inches to 122 inches

The WH483 is the “hardwired,” or “wired,” model where a cable connects the motor controls to the level controls through watertight penetrations.

The WR483 is the “radio frequency identification” (RFID), or “wireless,” model that uses wireless technology to communicate between the level controls and the motor controls.

Operational Information

Motor

1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

Inlet Connections

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

Discharge Connections

Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

Discharge

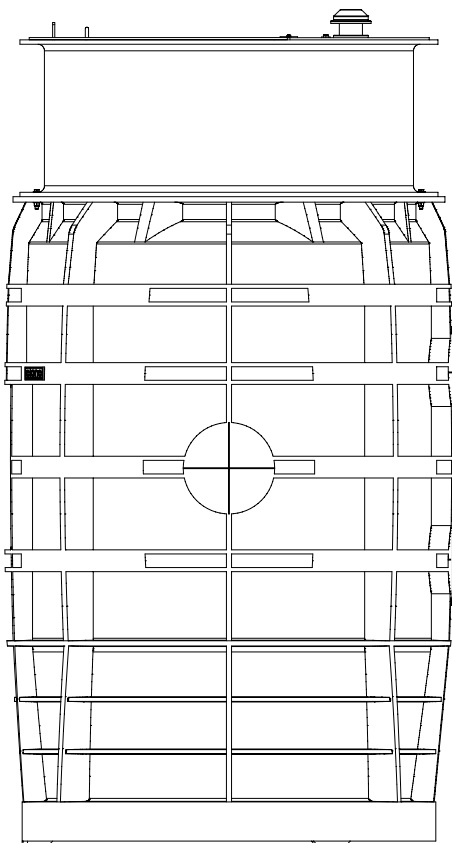
15 gpm at 0 psig (0.95 lps at 0 m)
11 gpm at 40 psig (0.69 lps at 28 m)
7.8 gpm at 80 psig (0.49 lps at 56 m)

Accessories

E/One requires that the Uni-Lateral, E/One’s own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

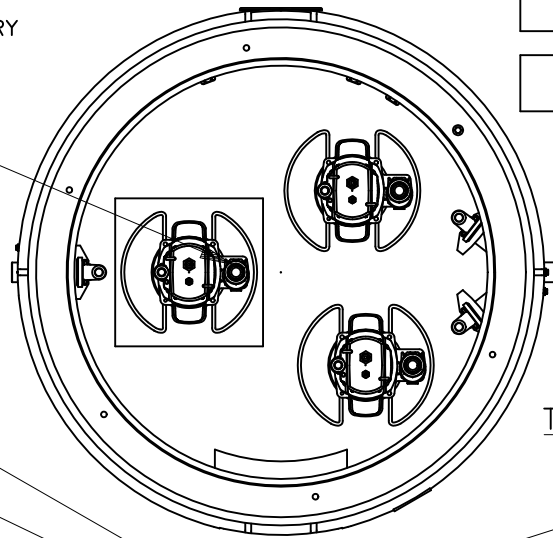
The Remote Sentry is ideal for installations where the alarm panel may be hidden from view.



STATION USES 1 DUPLEX MOD T260
ALARM PANEL AND 1 SIMPLEX SENTRY
ALARM PANEL

WH483 (HARD WIRED LEVEL CONTROLS)
 WR483 (WIRELESS LEVEL CONTROLS)

COMBINATION CHECK VALVE / ANTI-SIPHON VALVE FLAPPER TYPE (NORYL)



TOP VIEW W/LID NOT SHOWN

E/ONE EQUALIZER

1/3-2/3 SPLIT COVER W/HANDLE & PADLOCK STAPLE (ALUMINUM)

ELECTRICAL QUICK DISCONNECT (EQD) NEMA 6P

POLYETHYLENE MOLDED TANK 486 GAL (1840 L)

QUICK DISCONNECT ASSEMBLY, PVC SLIDE FACE

DISCHARGE FTG 1-1/4" FEMALE NPT, SS (X2)

MUSHROOM VENT

TANK ACCESSWAY SECTION (FIBERGLASS)

POWER/ALARM CABLE (6 CONDUCTOR) DIRECT BURY

CABLE CONNECTOR

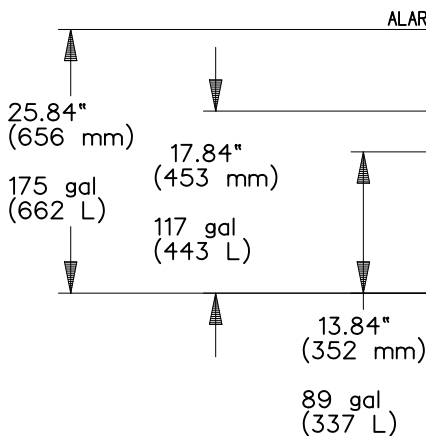
BULKHEAD FITTING

NYLON LIFTING HARNESS

DISCHARGE WYE MANIFOLD (SS) (X2)

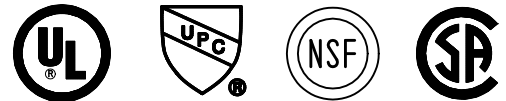
INLET, EPDM GROMMET TO ACCEPT 4.50" (114 mm) O.D. PVC PIPE (STANDARD). DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL)

1-1/4" (32 mm) FLEXIBLE DISCHARGE HOSE



BACK-UP PUMP, ON A 4" (102 mm) PEDESTAL (PROVIDED BY OTHERS)

SEMI-POSITIVE DISPLACEMENT TYPE PUMP DIRECTLY DRIVEN BY A 1 HP MOTOR



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS
FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

SGS	PD	12/28/10	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE



MODEL WH483 / WR483
DETAIL SHEET, TRIPLEX

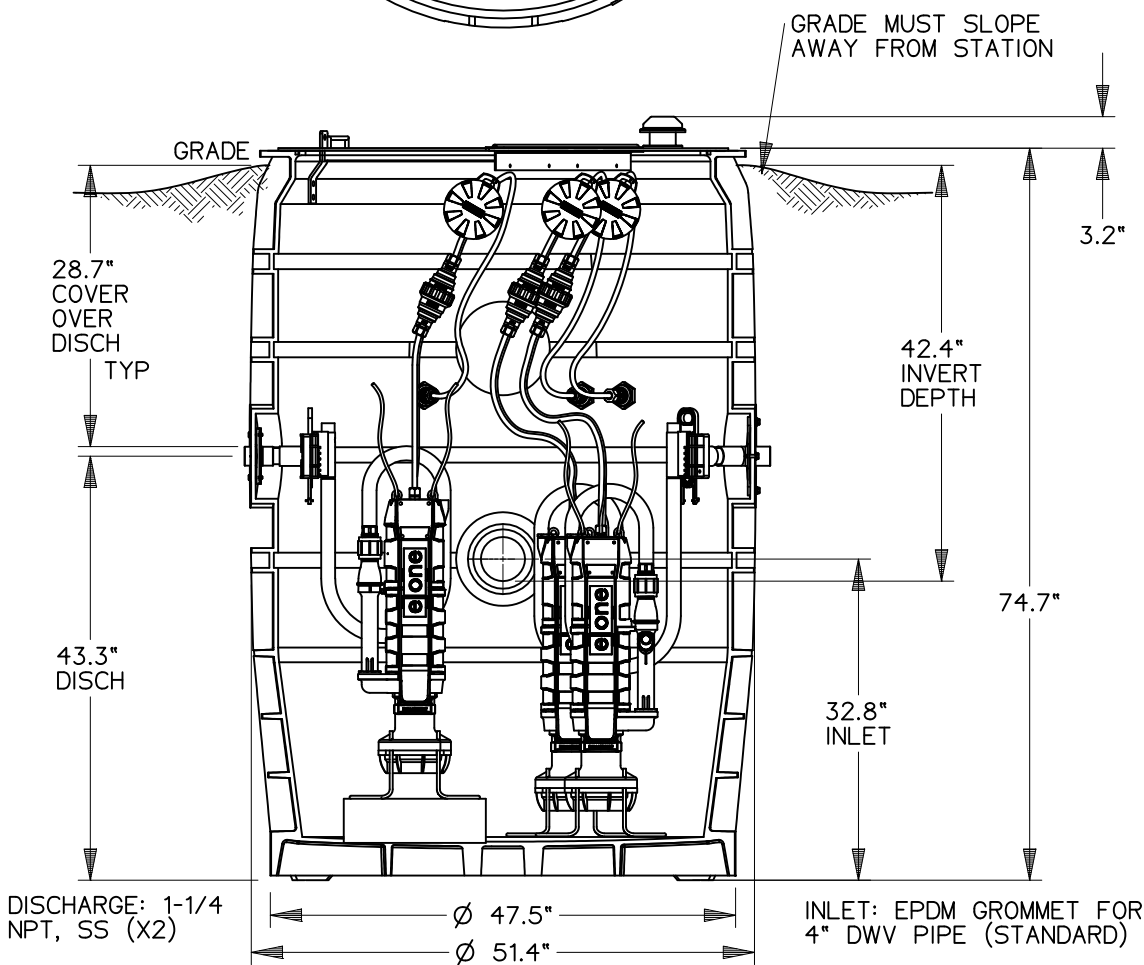
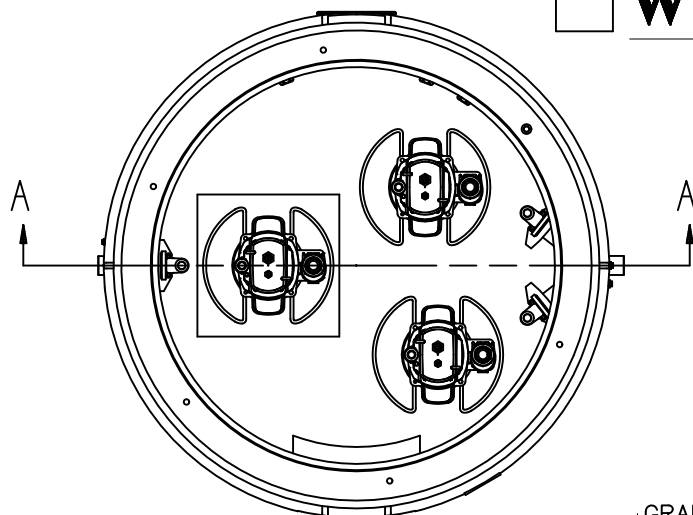
NA0214P02

WH483-75

(HARD WIRED
LEVEL CONTROLS)

WR483-75

(WIRELESS
LEVEL CONTROLS)

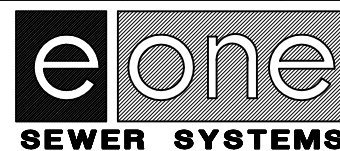


CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS
FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY



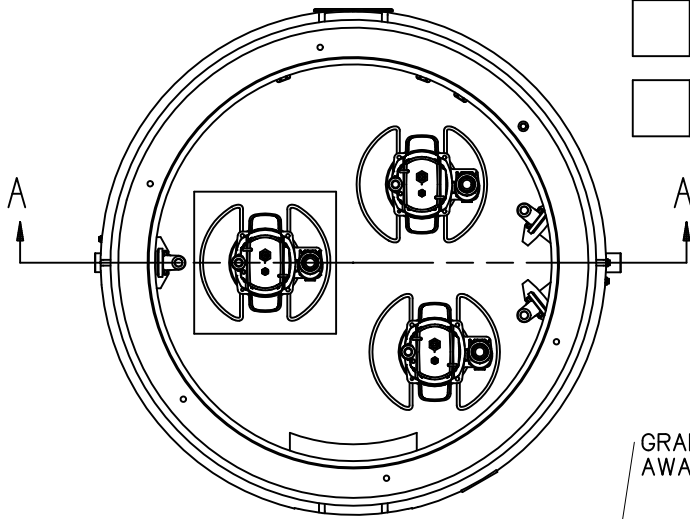
SGS	PD	06/24/10	A	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE



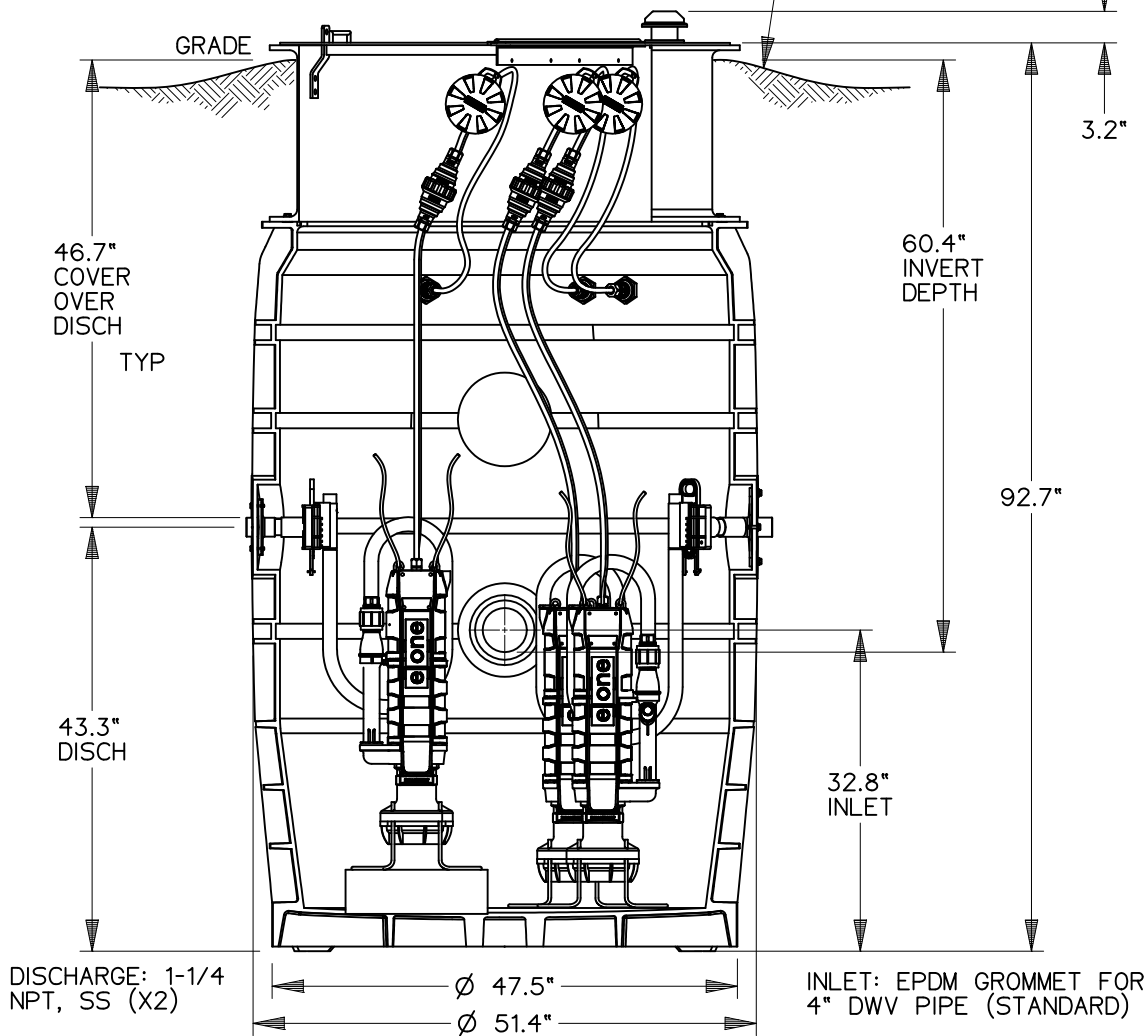
MODEL WH483-75 / WR483-75

NA0214P03

WH483-92 (HARD WIRED LEVEL CONTROLS)
 WR483-92 (WIRELESS LEVEL CONTROLS)

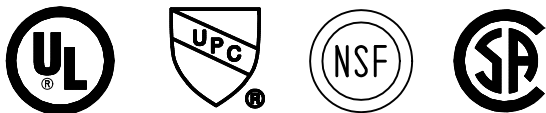


GRADE MUST SLOPE AWAY FROM STATION



CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS
FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY



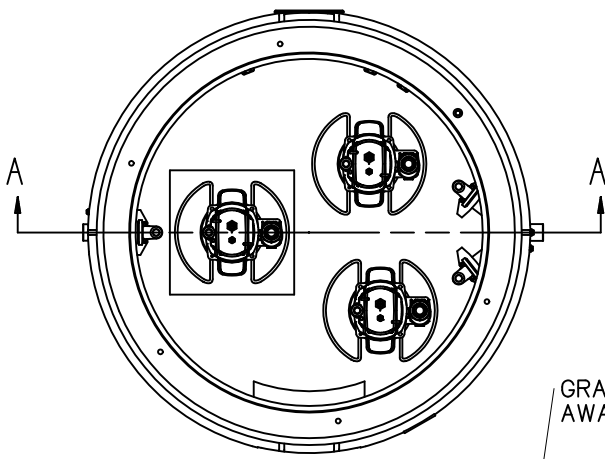
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DR BY	CHK'D	DATE	ISSUE	SCALE



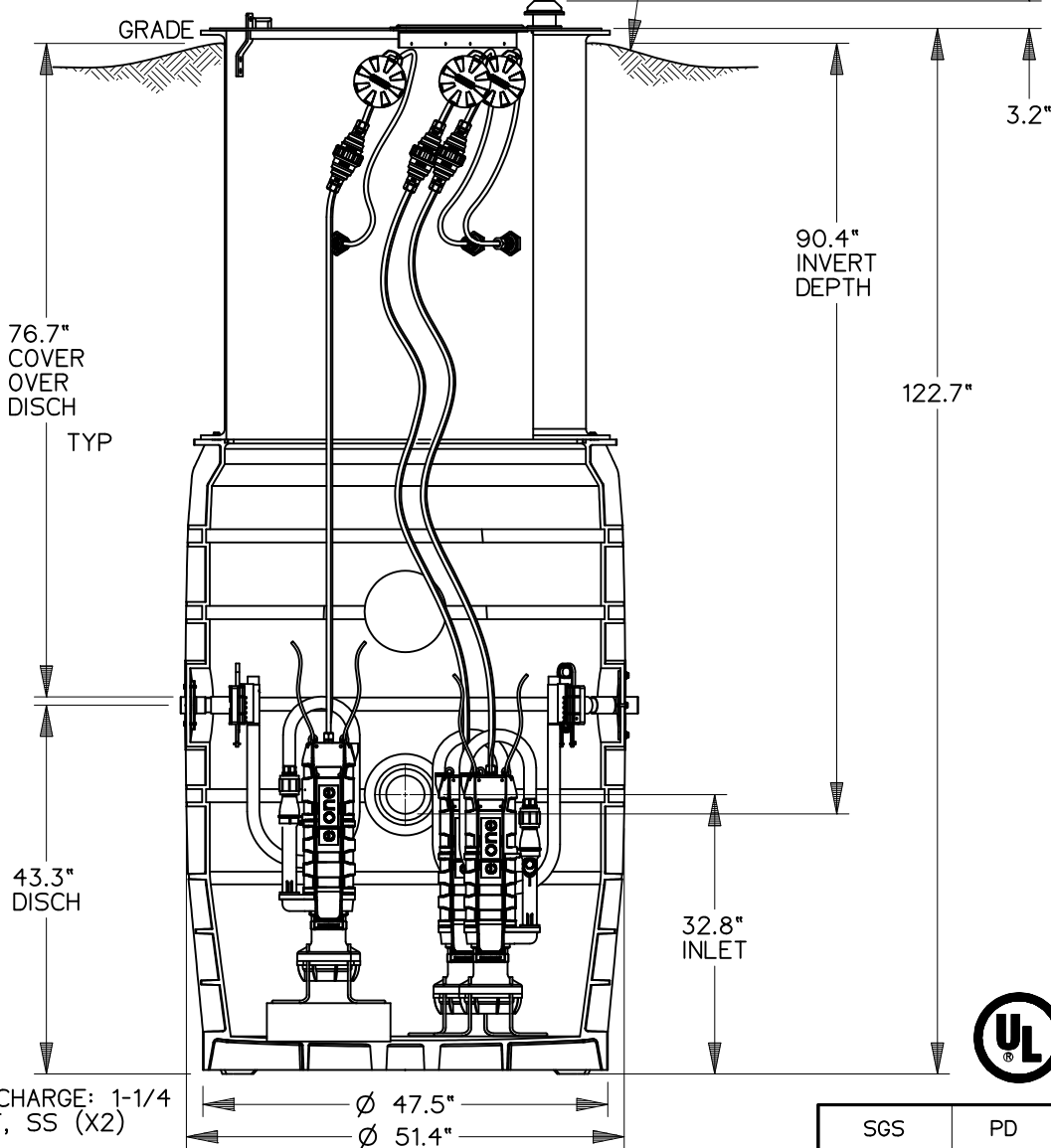
MODEL WH483-92 / WR483-92

NA0214P04

WH483-122 (HARD WIRED LEVEL CONTROLS)
 WR483-122 (WIRELESS LEVEL CONTROLS)

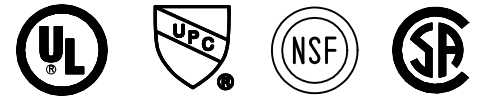


GRADE MUST SLOPE AWAY FROM STATION



DISCHARGE: 1-1/4 NPT, SS (X2)

INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)



CONCRETE BALLAST MAY BE REQUIRED
 SEE INSTALLATION INSTRUCTIONS
 FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

SGS	PD	02/10/11	A	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE



MODEL WH483-122 / WR483-122

NA0214P05



825 SW Ordnance Rd
Ankeny, IA 50023
Email: ryant@iowapumpworks.com

P: 855-228-6383
F: 866-961-5085
C: 515-823-6796

Date:

Project: WH483-92 BASIN

Engineer:

To:

- (3) Wet Well 240V Model, 12' Core Cable, 72-inch hose, 32 Ft Supply Cable, SS Slide Face
- (1) E/One WH484-92 Station, 486 Gallon Capacity, 1, 4 in. DWV (SCH40) Grommet 180 Degrees from Discharge - Factory Installed, Standard Discharge (Quad Manifold, 3 Pump System, Plug Open Port)
- (1) E/One Duplex Sentry Protect Plus Panel, 240V, 10x12 FRP Enclosure w/Dead front w/Sentry Advisor Monitoring
- (1) E/One Simplex Sentry Protect Plus Panel, 240V, 10x12 FRP Enclosure w/Dead front w/Sentry Advisor
- (1) E/One 1 1/4" SS Lateral Kit, Curb Stop Assembly, Female NPT Each End, No Fittings
- (1) CURB BOX 3.5'-4.5', IRON
- (1) E/ONE INSULATION DISC
- (1) Quad Manifold

Total Quote, freight NOT included:

\$23,959.92

Startup:

NOT INCLUDED

Estimated Lead Time:

7-8 Weeks

Quote Valid:

10 Days

Anything not specifically quoted above will be by others. Thank you for your consideration. Please contact us with any questions.

Ryan Turnbull
Iowa Pump Works
515-823-6796 / ryant@iowapumpworks.com
Cc: Scott Swenson

1008559

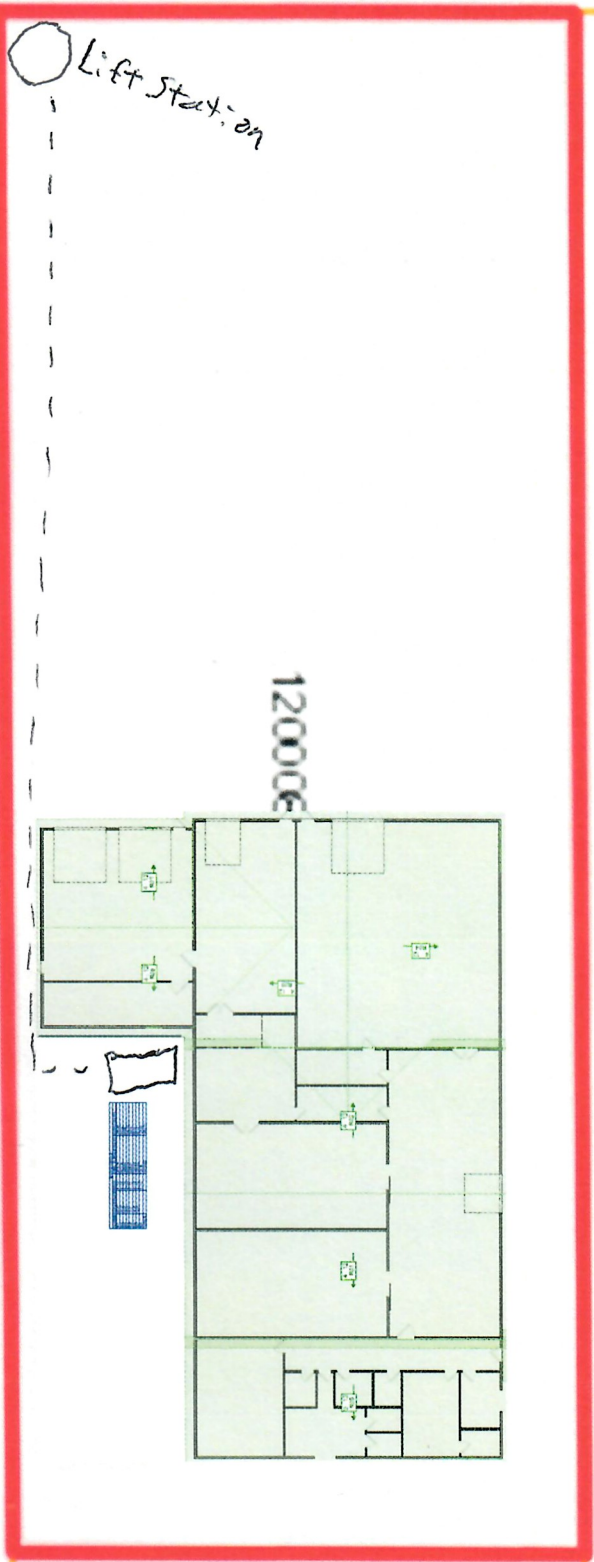
Cooperative Way

N

12006559

27 Road

E



S

E

David City, Nebraska, Zoning Ordinance – Draft Amendments October 2025

Marvin Planning Consultants

Section 2.03 Definitions

AGRICULTURE shall mean the use of land to obtain a profit by raising, harvesting, and selling crops or by feeding, breeding, management, and sale of, or the produce of, livestock, poultry, fur-bearing animals, or honeybees, or for dairying and the sale of dairy products, or other similar use.

AGRICULTURAL OPERATIONS shall mean the business of farming, excluding Livestock Feeding Operations as defined -a farmstead of 20 acres or more which produces \$1,000 or more of farm products each year.

AGRICULTURAL PROCESSING AND MANUFACTURING shall mean the processing and packaging of agricultural products, after harvest, for wholesale or retail sales, except where otherwise defined.

AGRICULTURAL SALES AND SERVICE shall mean an establishments or places of business engaged in sale from the premises of feed, grain, fertilizers, farm equipment, pesticides, and similar goods or in the provision of agriculturally related services with incidental storage on lots other than where the service is rendered. Typical uses include nurseries, hay, farm implement dealerships, feed and grain stores, and tree service firms.

ANIMAL BYPRODUCTS shall mean parts of a slaughtered animal not directly consumed by humans, such as fat, bones, and gelatin, typically processed into products for animal feed, fertilizer, or industrial uses.

ANIMAL UNIT shall mean a calculation which converts animals of different species or sizes into equivalent units. any farming operation or the feeding, farrowing, or raising cattle, swine, sheep, poultry, or other livestock, in a confined area where grazing is not possible, and where the confined area is for more than 6 months in any one calendar year, and where the number of animals so maintained exceeds 300 Animal Units as defined below. The confined area of the Livestock Feeding Operation (LFO) shall include the pens, corrals, sheds, buildings, feed storage areas, waste disposal ponds, and related facilities. Such facilities shall be constructed and operated in conformance with applicable county, state, and federal regulations. Two or more LFO's under common ownership are deemed to be a single LFO if they are adjacent to each other or if they utilize a common area of system for the disposal of livestock waste.

Animal Units (A.U.) are defined as follows:

FARM shall mean an area containing **at least 20 acres or more** in agricultural use for growing or storage of products such as vegetables, fruit, and grain, as well as for the raising thereon of the farm poultry and farm animals, and which produces \$1,000 or more per year of farms products raised on the premises, in accordance with §23-114.03 Nebraska Revised Statutes. The term farming includes the operation of such area for one or more of the above uses with the necessary accessory uses for treating or storing the produce and the feeding of livestock as hereinafter prescribed provided such accessory uses do not include the feeding of garbage or offal to swine or other animals.

FARMING shall mean the planting, cultivating, harvesting and storage of grains, hay or plants commonly grown in Nebraska with the necessary accessory uses for treating or storing the produce and the feeding of livestock as prescribed hereunder, provided such accessory uses do not include the feeding of garbage or offal to swine or other animals.

FEED MILL shall mean a facility or establishment primarily engaged in the grinding, mixing, processing, and/or manufacturing of animal feed or feed ingredients for wholesale or retail distribution; and may include storage of bulk grains, additives, and other agricultural inputs necessary for producing finished feed products.

FEEDLOT, COMMERCIAL shall mean a lot or building or combination of lots and buildings intended to be used for the confined feeding, breeding, raising or holding of animals and specifically designed as a confinement area in which manure may accumulate, or where the concentration of animals is such that a vegetation cover cannot be maintained in the enclosure. This definition does not include the pasturing of livestock. See also *Livestock Feeding Operation*.

LIVESTOCK FEEDING OPERATION (LFO): Any agricultural or farming operation in a confined area where grazing is not possible, and where the confined area is for more than six months in any one calendar year, and where the number of animals so maintained exceeds 300 Animal Units as defined below.

The confined area of the LFO shall include the pens, corrals, sheds, buildings, feed storage areas, waste disposal ponds, and related facilities. Such facilities shall be constructed and operated in conformance with applicable county, state, and federal regulations.

Two or more LFO's under common ownership are deemed to be a single LFO if they are adjacent to each other and utilize a common area of system for the disposal of livestock wastes.

Each operation type shall be classified in one of four levels according to total number of A.U. in the operation at any one time. Levels will include:

- Class I Facility = 301-1,000 animal units;
- Class II Facility = 1,001-2,500 animal units;
- Class III Facility = 2,501-5,000 animal units;
- Class IV Facility = 5,001-10,000 animal units;
- Class V Facility = 10,001 or more animal units.

LFOs having more than one type of feeding operation at one location shall be categorized according to the total number of animal units. A farm with 300 animal units or less is considered strictly an Agricultural operation.

POULTRY, COMMERCIAL FEEDING OPERATION shall mean a type of commercial Livestock Feeding Operation (LFO) ~~agricultural food lot~~ for poultry, whether confined feeding operations are enclosed or outdoors. A Hatchery may be accessory to a Poultry Commercial Feeding Operation or may be a principal use as defined.

POULTRY HATCHERY shall mean a facility engaged in the incubation of fertilized poultry eggs and the management, hatching, and initial care of poultry chicks before their distribution to growers, farms, or production facilities. May include egg handling, cleaning, incubation, brooding, and temporary chick holding areas, but does not include long-term raising or slaughter of birds on-site.

RENDERING PLANT shall mean a facility engaged in the processing of animal tissues and byproducts to extract, purify, and package animal byproducts; typical processes include the mechanical and thermal breakdown of raw animal material and/or fat extraction for commercial and industrial use.

Section 5.06 Land Use Categories/Matrix

		E = Exempt from Permits P = Permitted C = Conditional Use Permit T = Temporary "-" = not permitted Overlay District and Floodplain regulations shall also be met.											
Use Category	Use Type	Land Use District											Additional Requirements
		TA-1	RE	R-1	R-2	R-3	RM	DC	GC	FLEX	I-1	I-2	
Agriculture & Horticulture Uses	Agricultural buildings for general ag use	P	P	-	-	-	-	-	-	P	P	P	
	Agricultural operations, other than LFOs	E	E	E	-	-	-	-	-	E	E	E	
	Class I or larger Livestock Feeding Operation (LFO)	-	-	-	-	-	-	-	-	-	-	C	Section 9.25
	Community Gardens	E	E	E	E	E	C	E	E	E	E	E	
	Conservation Easement	C	C	C	C	C	C	C	C	C	C	C	Section 9.19
	Cover Crops	E	E	C	C	-	-	-	-	E	E	E	Section 9.25
	Crop Production	E	E	E	-	-	-	-	-	E	E	E	
	Horses and other non-commercial livestock on residential lots	E	E	C	-	-	-	-	-	E	-	-	Section 9.25
	Irrigation facilities	P	P	P	-	-	-	-	-	P	P	P	
	Livestock for educational purposes as a Secondary use	E	E	E	-	-	-	-	-	E	E	E	Section 9.25
	Livestock sales	C	-	-	-	-	-	-	-	-	C	P	
	Poultry Hatchery	P	-	-	-	-	-	-	-	-	C	P	
	Stockpiling of dead livestock, manure, or sludge	C	-	-	-	-	-	-	-	-	-	-	
	Tree farms and forestry	E	E	-	-	-	-	-	-	-	E	E	
Vineyard	E	E	-	-	-	-	-	-	-	E	E		
Agricultural Sales & Service	Agricultural chemicals, fertilizer, anhydrous ammonia-storage & distribution for commercial use.	C	-	-	-	-	-	-	-	C	C	C	
	Agricultural chemicals, fertilizer, anhydrous ammonia-storage & distribution for on-farm use.	E	-	-	-	-	-	-	-	E	E	E	
	Agricultural Cooperative Production/Distribution Facility	C								C	C	C	Section 9.05
	Agricultural feed mixing and blending (feed mill) and grain handling operations (retail/wholesale)	C	-	-	-	-	-	-	C	C	C	P	
	Agricultural implement & vehicle sales and service	C	-	-	-	-	-	-	C	P	P	P	
	Agricultural research farm	P	-	-	-	-	-	-	-	C	P	P	
	Agricultural seed sales (retail/wholesale)	P	-	-	-	-	-	-	C	C	P	P	
	Equestrian centers and stables	C	-	-	-	-	-	-	-	-	C	C	Section 9.25
	Fertilizer Transmission Line	C	-	-	-	-	-	-	-	-	C	C	
	Winery	C	C	-	-	-	-	-	C	C	C	C	

E = Exempt from Permits
P = Permitted
C = Conditional Use Permit
T = Temporary
“-“ = not permitted

Overlay District and Floodplain regulations shall also be met.

Use Category	Use Type	Land Use District											Additional Requirements
		TA-1	R-E	R-1	R-2	R-3	RM	DC	GC	FLEX	H-1	H-2	
General Manufacturing	Agricultural Processing and Manufacturing (other than Feed not otherwise provided)	C	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Electronics manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Machinery manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Millwork manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Musical instruments manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Tool, die, gauge and machine shops	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
Food Processing	Agricultural Processing of Food Products	C	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Bakery Products Manufacturing	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Beverage Blending and Bottling (Except Breweries)	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Butcher or Meat Locker with on-site slaughter	C	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Coffee, Tea and Spice Processing and Packaging	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Creamery and Dairy Operations	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
	Dairy Products Manufacturing	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
Egg Processing Plants	-	-	-	-	-	-	-	-	C	P	P	Section 9.05	
Mining & Excavation	Brick, firebrick, and clay products manufacturing	-	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Monument & architectural stone manufacturing	-	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Quarry or Sand/Gravel Pit	C	-	-	-	-	-	-	-	-	C	C	Section 9.18
Metal Manufacturing	Agriculture machinery manufacturing	-	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Culvert manufacturing	-	-	-	-	-	-	-	C	C	P	P	Section 9.05
	General metal manufacturing	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Welding	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Wire Rope and cable manufacturing	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
Manufacturing (High Hazard)	Bio-fuels and Distillation Manufacturing, including Ethanol	C	-	-	-	-	-	-	-	-	-	C	Section 9.05 and Section 9.21
	Data Center	-	-	-	-	-	-	-	-	-	C	C	Section 9.24
	Distillery	C	-	-	-	-	-	-	-	-	C	C	Section 9.05 and Section 9.21
	Grain Elevator and Commercial Storage Facilities	C	-	-	-	-	-	-	C	C	P	P	
	Processing or storage of explosive material	-	-	-	-	-	-	-	-	-	C	C	
	Rendering Plant	-	-	-	-	-	-	-	-	-	-	C	Section 9.05
	Sawmill/Lumber mill	C	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Scrap or Salvage Operations/Yards	-	-	-	-	-	-	-	-	-	-	C	Section 9.07
	Wind turbine manufacturing	-	-	-	-	-	-	-	-	-	-	C	Section 9.05
	Wood Preservation Treatment	-	-	-	-	-	-	-	-	-	-	C	Section 9.05
Wood and Firewood Processing and Storage and tree servicing	-	-	-	C	-	-	-	-	-	-	-	Section 5.11.08	
Waste Handling	Landfill, Construction Material	-	-	-	-	-	-	-	-	-	-	C	
	Landfill, Solid Waste	-	-	-	-	-	-	-	-	-	-	-	
	Junkyard, Salvage Yard, or Wrecking Yard	-	-	-	-	-	-	-	-	-	C	C	Section 9.07
	Recycling Center	C	-	-	-	-	-	-	C	C	C	C	
	Recycling Processing	C	-	-	-	-	-	-	-	C	C	C	
Sanitary Transfer Station	C	-	-	-	-	-	-	-	-	-	C		

Section 5.08 TA-1 Transitional Agriculture District

5.08.07 Supplemental Setbacks

1. The following uses shall be a minimum of 2,640 feet (1/2-mile) from any residential, ~~commercial, industrial,~~ or public use, as measured from the nearest point on the lot line.
 - A. Commercial auction yards or barns.
 - B. Commercial production and husbandry of poultry, fish, and small animals.
 - C. Commercial feedlots.
 - D. Mining and extraction of natural resources.
 - E. Feed mills.
 - F. Auto wrecking yards, junk yards, salvage yards, and scrap processing yards.
 - G. Storage and distribution of anhydrous ammonia, fuel, fertilizer, and other chemicals.
2. No new residential, ~~commercial, industrial,~~ or public use shall be located nearer than 2,640 feet (1/2-mile) to any existing use listed in Section 5.08.07(1) above (*reciprocal setback*).

Section 5.09 RE Residential Estates

5.09.07 Supplemental Setbacks

1. The following uses shall be a minimum of 2,640 feet (1/2-mile) from any residential, commercial, industrial, or public use, as measured from the nearest point on the lot line.
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 - C. Commercial feedlots.
 - D. Mining and extraction of natural resources.
 - E. Feed mills.
 - F. Auto wrecking yards, junk yards, salvage yards, and scrap processing yards.
 - G. Storage and distribution of anhydrous ammonia, fuel, fertilizer, and other chemicals.
2. No new residential, commercial, industrial, or public use shall be located nearer than 2,640 feet (1/2-mile) to any existing use listed in Section 5.08.07(1) above (*reciprocal setback*).

ORDINANCE NO. 1528

AN ORDINANCE OF THE MAYOR AND CITY COUNCIL OF THE CITY OF DAVID CITY, NEBRASKA, AMENDING THE ZONING ORDINANCE OF THE CITY OF DAVID CITY, NEBRASKA, TO ADD AND AMEND CERTAIN DEFINITIONS, TO ADD NEW AND AMEND EXISTING USES IN THE LAND USE MATRIX, AND TO EXEMPT COMMERCIAL AND INDUSTRIAL USES FROM CERTAIN SETBACKS WITHIN THE TA-1 TRANSITIONAL AGRICULTURE ZONING DISTRICT; REPEALING ALL ORDINANCES OR PORTIONS OF ORDINANCES IN CONFLICT THEREWITH; AND AUTHORIZING PUBLICATION OF THIS ORDINANCE IN PAMPHLET FORM.

RECITALS

WHEREAS, the City of David City, Nebraska, a municipal corporation and city of the second class ("City"), passed Ordinance No. 1504 on January 22, 2025, adopting and implementing City's Zoning Ordinance (the "Zoning Ordinance");

WHEREAS, Nebraska Revised Statutes section 19-901 authorizes City to adopt and amend the Zoning Ordinance from time to time;

WHEREAS, City desires to amend the Zoning Ordinance as shown in Exhibit A, attached hereto and incorporated herein (the "Amendments"); and

WHEREAS, City deems it in City and its residents' best interest to adopt the Amendments and amend the Zoning Ordinance accordingly.

NOW THEREFORE, BE IT ORDAINED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF DAVID CITY, NEBRASKA:

SECTION 1. City hereby amends the Zoning Ordinance by adopting the Amendments, as shown in Exhibit A.

SECTION 2. City hereby repeals all other ordinances, or portions thereof, passed and approved prior to the passage, approval and publication of this Ordinance in conflict herewith to the extent of the conflict thereof.

SECTION 3. The Mayor and City Clerk may execute such other documents and take such other actions as reasonably necessary and appropriate to effectuate the purposes herein.

SECTION 4. The City Clerk shall publish this Ordinance in pamphlet form and this Ordinance shall be in full force and effect following its passage, approval and publication in pamphlet form.

PASSED AND APPROVED this 11th day of March, 2026.

Jessica Miller, Mayor

ATTEST:

Lori Matchett, City Clerk

Exhibit A

The Amendments to the Zoning Ordinance

[SEE ATTACHED]

David City, Nebraska, Zoning Ordinance – Draft Amendments October 2025

Marvin Planning Consultants

Section 2.03 Definitions

AGRICULTURE shall mean the use of land to obtain a profit by raising, harvesting, and selling crops or by feeding, breeding, management, and sale of, or the produce of, livestock, poultry, fur-bearing animals, or honeybees, or for dairying and the sale of dairy products, or other similar use.

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ANIMAL BYPRODUCTS shall mean parts of a slaughtered animal not directly consumed by humans, such as fat, bones, and gelatin, typically processed into products for animal feed, fertilizer, or industrial uses.

ANIMAL UNIT shall mean a calculation which converts animals of different species or sizes into equivalent units. any farming operation or the feeding, farrowing, or raising cattle, swine, sheep, poultry, or other livestock, in a confined area where grazing is not possible, and where the confined area is for more than 6 months in any one calendar year, and where the number of animals so maintained exceeds 300 Animal Units as defined below. The confined area of the Livestock Feeding Operation (LFO) shall include the pens, corrals, sheds, buildings, feed storage areas, waste disposal ponds, and related facilities. Such facilities shall be constructed and operated in conformance with applicable county, state, and federal regulations. Two or more LFO's under common ownership are deemed to be a single LFO if they are adjacent to each other or if they utilize a common area of system for the disposal of livestock waste.

Animal Units (A.U.) are defined as follows:

FARM shall mean an area containing **at least 20 acres or more** in agricultural use for growing or storage of products such as vegetables, fruit, and grain, as well as for the raising thereon of the farm poultry and farm animals, and which produces \$1,000 or more per year of farms products raised on the premises, in accordance with §23-114.03 Nebraska Revised Statutes. The term farming includes the operation of such area for one or more of the above uses with the necessary accessory uses for treating or storing the produce and the feeding of livestock as hereinafter prescribed provided such accessory uses do not include the feeding of garbage or offal to swine or other animals.

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LIVESTOCK FEEDING OPERATION (LFO): Any agricultural or farming operation in a confined area where grazing is not possible, and where the confined area is for more than six months in any one calendar year, and where the number of animals so maintained exceeds 300 Animal Units as defined below.

The confined area of the LFO shall include the pens, corrals, sheds, buildings, feed storage areas, waste disposal ponds, and related facilities. Such facilities shall be constructed and operated in conformance with applicable county, state, and federal regulations.

Two or more LFO's under common ownership are deemed to be a single LFO if they are adjacent to each other and utilize a common area of system for the disposal of livestock wastes.

Each operation type shall be classified in one of four levels according to total number of A.U. in the operation at any one time. Levels will include:

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LFOs having more than one type of feeding operation at one location shall be categorized according to the total number of animal units. A farm with 300 animal units or less is considered strictly an Agricultural operation.

POULTRY, COMMERCIAL FEEDING OPERATION shall mean a type of commercial Livestock Feeding Operation (LFO) ~~agricultural food lot~~ for poultry, whether confined feeding operations are enclosed or outdoors. A Hatchery may be accessory to a Poultry Commercial Feeding Operation or may be a principal use as defined.

POULTRY HATCHERY shall mean a facility engaged in the incubation of fertilized poultry eggs and the management, hatching, and initial care of poultry chicks before their distribution to growers, farms, or production facilities. May include egg handling, cleaning, incubation, brooding, and temporary chick holding areas, but does not include long-term raising or slaughter of birds on-site.

RENDERING PLANT shall mean a facility engaged in the processing of animal tissues and byproducts to extract, purify, and package animal byproducts; typical processes include the mechanical and thermal breakdown of raw animal material and/or fat extraction for commercial and industrial use.

Section 5.06 Land Use Categories/Matrix

		E = Exempt from Permits P = Permitted C = Conditional Use Permit T = Temporary "-" = not permitted Overlay District and Floodplain regulations shall also be met.											
Use Category	Use Type	Land Use District											Additional Requirements
		TA-1	RE	R-1	R-2	R-3	RM	DC	GC	FLEX	I-1	I-2	
Agriculture & Horticulture Uses	Agricultural buildings for general ag use	P	P	-	-	-	-	-	-	P	P	P	
	Agricultural operations, other than LFOs	E	E	E	-	-	-	-	-	E	E	E	
	Class I or larger Livestock Feeding Operation (LFO)	-	-	-	-	-	-	-	-	-	-	C	Section 9.25
	Community Gardens	E	E	E	E	E	C	E	E	E	E	E	
	Conservation Easement	C	C	C	C	C	C	C	C	C	C	C	Section 9.19
	Cover Crops	E	E	C	C	-	-	-	-	E	E	E	Section 9.25
	Crop Production	E	E	E	-	-	-	-	-	E	E	E	
	Horses and other non-commercial livestock on residential lots	E	E	C	-	-	-	-	-	E	-	-	Section 9.25
	Irrigation facilities	P	P	P	-	-	-	-	-	P	P	P	
	Livestock for educational purposes as a Secondary use	E	E	E	-	-	-	-	-	E	E	E	Section 9.25
	Livestock sales	C	-	-	-	-	-	-	-	-	C	P	
	Poultry Hatchery	P	-	-	-	-	-	-	-	-	C	P	
	Stockpiling of dead livestock, manure, or sludge	C	-	-	-	-	-	-	-	-	-	-	
	Tree farms and forestry	E	E	-	-	-	-	-	-	-	E	E	
Vineyard	E	E	-	-	-	-	-	-	-	E	E		
Agricultural Sales & Service	Agricultural chemicals, fertilizer, anhydrous ammonia-storage & distribution for commercial use.	C	-	-	-	-	-	-	-	C	C	C	
	Agricultural chemicals, fertilizer, anhydrous ammonia-storage & distribution for on-farm use.	E	-	-	-	-	-	-	-	E	E	E	
	Agricultural Cooperative Production/Distribution Facility	C								C	C	C	Section 9.05
	Agricultural feed mixing and blending (feed mill) and grain handling operations (retail/wholesale)	C	-	-	-	-	-	-	C	C	C	P	
	Agricultural implement & vehicle sales and service	C	-	-	-	-	-	-	C	P	P	P	
	Agricultural research farm	P	-	-	-	-	-	-	-	C	P	P	
	Agricultural seed sales (retail/wholesale)	P	-	-	-	-	-	-	C	C	P	P	
	Equestrian centers and stables	C	-	-	-	-	-	-	-	-	C	C	Section 9.25
	Fertilizer Transmission Line	C	-	-	-	-	-	-	-	-	C	C	
	Winery	C	C	-	-	-	-	-	C	C	C	C	

E = Exempt from Permits
P = Permitted
C = Conditional Use Permit
T = Temporary
“-“ = not permitted

Overlay District and Floodplain regulations shall also be met.

Use Category	Use Type	Land Use District											Additional Requirements
		TA-1	R-E	R-1	R-2	R-3	RM	DC	GC	FLEX	H-1	H-2	
General Manufacturing	Agricultural Processing and Manufacturing (other than Feed not otherwise provided)	C	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Electronics manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Machinery manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Millwork manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Musical instruments manufacturing	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
	Tool, die, gauge and machine shops	-	-	-	-	-	-	-	C	P	P	P	Section 9.05
Food Processing	Agricultural Processing of Food Products	C	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Bakery Products Manufacturing	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Beverage Blending and Bottling (Except Breweries)	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Butcher or Meat Locker with on-site slaughter	C	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Coffee, Tea and Spice Processing and Packaging	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Creamery and Dairy Operations	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
	Dairy Products Manufacturing	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
Egg Processing Plants	-	-	-	-	-	-	-	-	C	P	P	Section 9.05	
Mining & Excavation	Brick, firebrick, and clay products manufacturing	-	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Monument & architectural stone manufacturing	-	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Quarry or Sand/Gravel Pit	C	-	-	-	-	-	-	-	-	C	C	Section 9.18
Metal Manufacturing	Agriculture machinery manufacturing	-	-	-	-	-	-	-	C	C	P	P	Section 9.05
	Culvert manufacturing	-	-	-	-	-	-	-	C	C	P	P	Section 9.05
	General metal manufacturing	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Welding	-	-	-	-	-	-	C	C	C	P	P	Section 9.05
	Wire Rope and cable manufacturing	-	-	-	-	-	-	-	-	C	P	P	Section 9.05
Manufacturing (High Hazard)	Bio-fuels and Distillation Manufacturing, including Ethanol	C	-	-	-	-	-	-	-	-	-	C	Section 9.05 and Section 9.21
	Data Center	-	-	-	-	-	-	-	-	-	C	C	Section 9.24
	Distillery	C	-	-	-	-	-	-	-	-	C	C	Section 9.05 and Section 9.21
	Grain Elevator and Commercial Storage Facilities	C	-	-	-	-	-	-	C	C	P	P	
	Processing or storage of explosive material	-	-	-	-	-	-	-	-	-	C	C	
	Rendering Plant	-	-	-	-	-	-	-	-	-	-	C	Section 9.05
	Sawmill/Lumber mill	C	-	-	-	-	-	-	-	-	C	C	Section 9.05
	Scrap or Salvage Operations/Yards	-	-	-	-	-	-	-	-	-	-	C	Section 9.07
	Wind turbine manufacturing	-	-	-	-	-	-	-	-	-	-	C	Section 9.05
Wood Preservation Treatment	-	-	-	-	-	-	-	-	-	-	C	Section 9.05	
Wood and Firewood Processing and Storage and tree servicing	-	-	-	C	-	-	-	-	-	-	-	Section 5.11.08	
Waste Handling	Landfill, Construction Material	-	-	-	-	-	-	-	-	-	-	C	
	Landfill, Solid Waste	-	-	-	-	-	-	-	-	-	-	-	
	Junkyard, Salvage Yard, or Wrecking Yard	-	-	-	-	-	-	-	-	-	C	C	Section 9.07
	Recycling Center	C	-	-	-	-	-	-	C	C	C	C	
	Recycling Processing	C	-	-	-	-	-	-	-	C	C	C	
Sanitary Transfer Station	C	-	-	-	-	-	-	-	-	-	C		

Section 5.08 TA-1 Transitional Agriculture District

5.08.07 Supplemental Setbacks

1. The following uses shall be a minimum of 2,640 feet (1/2-mile) from any residential, ~~commercial, industrial,~~ or public use, as measured from the nearest point on the lot line.
 - A. Commercial auction yards or barns.
 - B. Commercial production and husbandry of poultry, fish, and small animals.
 - C. Commercial feedlots.
 - D. Mining and extraction of natural resources.
 - E. Feed mills.
 - F. Auto wrecking yards, junk yards, salvage yards, and scrap processing yards.
 - G. Storage and distribution of anhydrous ammonia, fuel, fertilizer, and other chemicals.
2. No new residential, ~~commercial, industrial,~~ or public use shall be located nearer than 2,640 feet (1/2-mile) to any existing use listed in Section 5.08.07(1) above (*reciprocal setback*).

Section 5.09 RE Residential Estates

5.09.07 Supplemental Setbacks

1. The following uses shall be a minimum of 2,640 feet (1/2-mile) from any residential, commercial, industrial, or public use, as measured from the nearest point on the lot line.
 - A. Commercial auction yards or barns.
 - B. Commercial production and husbandry of poultry, fish, and small animals.
 - C. Commercial feedlots.
 - D. Mining and extraction of natural resources.
 - E. Feed mills.
 - F. Auto wrecking yards, junk yards, salvage yards, and scrap processing yards.
 - G. Storage and distribution of anhydrous ammonia, fuel, fertilizer, and other chemicals.
2. No new residential, commercial, industrial, or public use shall be located nearer than 2,640 feet (1/2-mile) to any existing use listed in Section 5.08.07(1) above (*reciprocal setback*).



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