

SECTION 01010 -SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specifications Sections apply to this Section and all Sections.

1.2 SUMMARY

- A. This Section includes a summary of each contract, including responsibilities for coordination and temporary facilities and controls.
- B. Related Sections include the following:
 - 1. 01010 - Summary of Work
 - 2. 01020 - Allowances
 - 3. 01200 - Project Meetings
 - 4. 01340 - Shop Drawings, Product Data & Samples
 - 5. 01410 - Testing Laboratory Services
 - 6. 01450 - Special Inspections
 - 7. 01500 - Temporary Facilities and Controls
 - 8. 01700 - Contract Closeout
 - 9. 01710 - Cleaning
 - 10. 01720 - Project Record Documents
- C. Baldwin and Shell Standard Contract Documents: Each and Every Trade Contractor and Materials Purchase Order Company agrees to execute Baldwin and Shell's Standard Subcontract or Material Purchase Order and related Performance Bond without alteration.

1.3 COORDINATION

- A. Project Coordinator shall be responsible for coordination between the Trade and Materials Contracts.
 - 1. Construction Manager/General Contractor shall act as Project Coordinator.

1.4 TRADE CONTRACT BID PACKAGES

- A. Trade Contracts are separate contracts with National Park College (Construction Manager) that represent significant construction activities performed concurrently with and closely coordinated

with construction activities performed on the project under other separate trade contracts. Trade Contract Bid Packages for this project include:

1. Site Preparation & Earthwork
2. Stormwater Utilities
3. Site Preparation & Earthwork and Storm Drainage
4. Utilities
5. Storm Drainage and Utilities
6. Paving
7. Exterior Improvements
8. Building and Site Concrete
9. Structural & Miscellaneous Steel Erection
10. Turnkey Structural & Miscellaneous Steel (Furnish & Erect)
11. Finish Carpentry & Millwork
12. **Miscellaneous** Installation
13. Entrances & Storefronts
14. Overhead Doors
15. Drywall & Acoustical
16. Resilient Base
17. Painting
18. Signage
19. Metal Building Systems Erection
20. Combination Structural Steel & Metal Building Systems Erection
21. Turnkey Metal Building Systems (Furnish & Erect)
22. Turnkey Structural Steel & Metal Building Systems (Furnish & Erect Structural Steel and Metal Building System)
23. Plumbing
24. HVAC
25. Mechanical (Combination of Plumbing and HVAC)
26. Electrical and Low Voltage Systems - Complete

1.5 EXTENT OF TRADE CONTRACT WORK

- A. The extent of each trade contract is indicated in the Contract Documents. Except where no other more specific description is contained in the Contract Documents, general names and terminology on the drawings and in specification sections determine which trade contract includes a specific element of work.
- B. Local custom and trade-union jurisdictional settlements do not control the scope of work included in each trade contract. When a potential jurisdictional dispute or similar interruption of construction activities is first identified or threatened, the affected trade contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and its delays.

1.6 CONTRACT DOCUMENTS

- A. The Owner (Construction Manager) will furnish 1 complete set of Contract Documents to the successful trade Contractor for use in construction of the Work unless otherwise negotiated.

Each Trade Contractor shall supply complete sets of Contract Documents to subcontractors or material suppliers.

- B. Additional sets of Contract Documents, beyond the sets furnished by the Owner, which are requested by a Trade Contractor, may be purchased from the Construction Manager at the Trade Contractor's expense. Refer to the General Conditions.

1.7 EXAMINATION OF THE PREMISES

- A. Before submitting proposal, each Trade Contractor will be held to have examined the premises and existing conditions under which Trade Contractor will be obligated to operate or that will in any manner affect the work under this contract.

1.8 RESPONSIBILITIES OF OWNER

- A. Responsibilities of Owner include the following:
 - 1. Owner furnished items as defined in the Contract Documents.
 - 2. Pay for all construction testing services as required by the Contract Documents.

1.9 RESPONSIBILITIES OF CONSTRUCTION MANAGER/GENERAL CONTRACTOR

- A. Responsibilities of Construction Manager except as otherwise specifically stated in the Contract Documents.
 - 1. Provide two primary control points for layout.
 - 2. Provide temporary toilets.
 - 3. Pay for temporary utilities fees.
 - 4. Provide cost for dumpsters for construction waste.
 - 5. Pay for construction testing services as required by the contract documents.

1.10 RESPONSIBILITIES OF EACH TRADE CONTRACTOR

- A. All Trade Contractors in excess of **\$50,000.00** must furnish a Performance bond before a contract can be issued.
- B. Except as otherwise specifically stated in the Contract Documents, each Trade Contractor shall provide and pay for all materials, labor, tools, equipment, transportation, superintendence, engineering and layout, safety, protection of work by others, traffic control, weather protection, clean up, storage, performance bonds and taxes legally collectable because of the work. Each Trade Contractor shall provide all other services and facilities of every nature whatsoever necessary to execute the work of each contract, and shall deliver the work complete in every respect within the specified time.
- C. Engineering and Layout for your Work.
- D. Coordination with other trades.

- E. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Division 1 Section "Temporary Facilities and Controls", each contractor is responsible for the following:
1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, and costs associated with each facility.
 2. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
 3. Its own storage and fabrication sheds.
 4. Temporary enclosures for its own construction activities.
 5. Waste disposal, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials. **Dumpster for construction waste provided by Construction Manager.**
 6. Progress cleaning of its own areas on a daily basis.
 7. Secure lockup of its own tools, materials, and equipment.
 8. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
 9. Fire stopping of penetrations created by its work.
- F. Existing Conditions: Repair damage to existing improvements, facilities, buildings and utilities to the satisfaction of the Owner, without compromise to existing warranties, at no additional cost to the Owner.

1.11 WORK PERFORMED UNDER SEPARATE TRADE CONTRACTS

- A. This is not a complete list of all Work, but is a general guideline. The Contract Documents for these sections determine the total scope of the work. Each Trade Contract Bid Package can be summarized as follows:

1. Site Preparation & Earthwork

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Soil Investigation
31 11 00 Clearing and Grubbing
31 22 00 Grading
31 23 00 Excavation and Fill
31 25 00 Erosion and Sedimentation Control

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.

- e. Multiple mobilizations as required to complete scope.
- f. Provide unit prices.
- g. Erosion Control Measures Complete. (Erosion Control for Inlet Protection to be provided by the Site Utility Contractor.)
- h. Stockpile stripped topsoil per contract documents.
- i. Excavation for retaining wall is part of this package. (Backfill of retaining wall by Retaining wall contractor.)

2. Stormwater Utilities

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

Soil Investigation

31 11 00 Clearing and Grubbing (as it pertains to your work)

31 22 00 Grading (as it pertains to your work)

31 23 00 Excavation and Fill (as it pertains to your work)

33 40 00 Stormwater Utilities

31 25 00 Erosion and Sedimentation Control

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Multiple mobilizations as required to complete scope.
- f. Provide unit prices.
- g. Return trench excavations to original or better condition.
- h. Site Storm Drainage System Complete.
- i. Storm drainage systems stop 5' outside building under-slab. Plumbing contractor will pick up connection for under-slab.

3. Site Preparation & Earthwork and Stormwater Utilities (Combo of packages 1 & 2)

This Trade Package is a combination of Trade Package 1 Site Preparation & Earthwork and Trade Package 2 Storm Drainage and shall include all the required scope of both packages.

4. Utilities

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

Soil Investigation

31 11 00 Clearing and Grubbing (as it pertains to your work)
31 22 00 Grading (as it pertains to your work)
31 23 00 Excavation and Fill (as it pertains to your work)
33 00 00 Utilities
31 25 00 Erosion and Sedimentation Control

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Multiple mobilizations as required to complete scope.
- f. Provide unit prices.
- g. Return trench excavations to original or better condition.
- h. Trench backfilling per plans, geotechnical report and city codes are part of this package.
- i. Sewer and Water service work stops 5' from building slab.
- j. Sewer service to within 5' of sample port manhole at grease trap.
- k. Include all associated costs for water meters and mains.
- l. Include all associated costs for installation of sanitary sewer.

5. Storm Drainage and Utilities (Combo of packages 2 & 4)

This Trade Package is a combination of Trade Package 2 Storm Drainage and Trade Package 4 Site Utilities and shall include all the required scope of both packages.

6. Paving

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Soil Investigation
32 12 16 Asphaltic Paving

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Incidental and Miscellaneous Earthwork and/or Grade Adjustments are a part of this trade package.
- f. Mobilizations as required to complete scope.

- g. Provide unit prices.
- h. Base rock under concrete is not part of this package. (To be provided by Building/Site Concrete Contractor.)
- i. Provide Pavement markings, wheel stops, and traffic/handicap signage complete.

7. Exterior Improvements

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
32 31 13 Chain Link Fences and Gates
32 92 19 Seeding

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Mobilizations as required to complete scope.
- f. Provide unit prices.
- g. Sleeves as required for work are part of this package.
- h. Furnish and Install new topsoil as required.
- i. Incidental and Miscellaneous Earthwork and/or Grade Adjustments are a part of this trade package.
- j. All Electrical coordination and devices required for irrigation systems are the responsibly of this Trade Contractor.

8. Building and Site Concrete

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Soil Investigation
Concrete Refer to Drawings
31 31 16 Termite Control
07 26 16 Under Slab Vapor Barrier/Retarder
07 92 00 Joint Sealants

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel

- c. Protection of Work by others.
- d. Daily Clean up.
- e. Site Concrete complete.
- f. Building Concrete Complete.
- g. Mobilizations as required to complete scope.
- h. Provide unit prices.
- i. All aggregate base required for work of this Trade Package.
- j. Incidental and Miscellaneous Earthwork and/or Grade Adjustments are a part of this trade package.
- k. Verify all existing subgrade elevations prior to start of work.
- l. Exterior Equipment & Transformer Pads.
- m. Provide housekeeping pads, including those shown on M, P and E sheets.
- n. Cast-in-place retaining walls complete.
- o. Install pipe bollards, anchor bolts, embeds, and amenities. (Materials furnished under separate material packages.)
- p. Provide all foundation walls and under-slab drainage piping complete.
- q. Excavation, backfill and disposal of soils for concrete work. Dispose off-site.
- r. Grouting of base plates is a part of this trade package.
- s. Steel reinforcing (including bar and mesh supports) embedded in concrete and tie-wire for reinforcing is a part of this package.
- t. Under-slab drainage fill and vapor barrier/retarder.
- u. Initial curing and/or sealing of concrete are part of this trade package.
- v. Final/finish sealer coat on concrete slabs.

9. Structural & Miscellaneous Steel Erection

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Furnish all labor, equipment, tools and miscellaneous/disposable materials required for the erection and installation of structural, and miscellaneous steel including but not limited to steel columns, beams, ladders, anchor bolts, and tube steel.
- f. Install any lintels, headers and other miscellaneous steel items that attach to the surface of masonry.
- g. Install steel posts, gates, and accessories at the dumpster enclosure. Coordinate work with Subcontractors. (Pipe Bollards to be installed by Concrete Contractor.)
- h. Unloading of steel is part of this trade package.
- i. Design connections not detailed on the drawings under direct supervision of a

Professional Structural Engineer experienced in design of this work and licensed in Arkansas.

10. Turnkey Structural & Miscellaneous Steel (Combination of Furnish & Erect)

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Reference Trade Contract Package 9.
- f. Reference Material Purchase Order Package 27.

11. Finish Carpentry & Millwork

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
06 20 00 Finish Carpentry
06 22 00 Millwork

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Blocking and backing for attachment of specialty items where required.
- f. Caulking of tops and bases to walls.
- g. Field verify all dimensions before fabrication.
- h. Provide cutouts for sinks for use by plumbing and electrical.
- i. Provide wall caps where required.
- j. Provide Finish Carpentry complete.
- k. Provide Millwork and Casework Complete including hardware.
- l. Provide surface tops as indicated.

12. Miscellaneous Installation

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
08 11 00 Metal Doors and Frames
08 14 29 Wood Doors
10 14 00 Signage
10 28 13 Toilet Accessories
10 41 00 Exterior Security Vault
10 44 13 Fire Extinguishers

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Install all miscellaneous installation items furnished by others.

13. Entrances and Storefront

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
08 41 00 Entrances and Storefront
07 92 00 Joint Sealants (As it pertains to this package)
08 07 00 Door Hardware
08 80 00 Glazing

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Includes furnishing Door Hardware for your work.

14. Overhead Doors

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
08 36 13 Sectional Door
08 07 00 Door Hardware

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Provide Sectional Overhead Doors, hardware and Trim Complete.

15. Drywall & Acoustical

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
07 21 00 Thermal Insulation
08 11 00 Metal Doors and Frames (As it pertains to this package)
09 21 00 Gypsum Board Assemblies
09 51 00 Acoustical Ceilings
09 53 00 Acoustical Ceiling Suspension Assemblies

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Provide all gypsum wallboard and ceilings.
- f. Provide all exterior and interior wall sheathing including behind metal panels.
- g. Provide rigid and/or batt insulation except that which occurs behind metal wall panels.
- h. Install all metal door frames associated with metal stud partitions. (Frames are furnished under separate package.)
- i. Provide metal framing for mezzanine level including wood floor decking.
- j. Metal backup framing for ceilings, wall panels and associated items is a part of this Trade Package.

16. Resilient Base

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

09 65 00 Resilient Base

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Provide floor protection for your work.
- f. Provide wall base complete.

17. Painting

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

- 08 11 00 Metal Doors and Frames (As it pertains to this package)
- 08 14 00 Wood Doors (As it pertains to this package)
- 08 36 13 Sectional Door (As it pertains to this package)
- 08 41 00 Entrances and Storefront (As it pertains to this package)
- 09 91 00 Painting

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. All painting work, complete, including touch-up of shop-primed work.
- f. Surface preparation work as required.
- g. Painting of interior and exterior structural and miscellaneous metals, including exposed ceilings where required.
- h. Painting and caulking of hollow metal doors and frames, flush wood doors and overhead door assemblies.
- i. Caulking on interior surfaces.
- j. All gypsum board joint taping, fire taping where required, and finishing complete, ready for painting.

18. Signage

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

- 10 14 00 Signage

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Interior and exterior signage where required.

19. Metal Building Systems Erection

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Install Complete Metal Building and Roof System.
- f. Install Metal Building and Roof Insulation System.
- g. Expansion joint assemblies related to this scope of work are included in this trade package.
- a. Provide all roof specialties and roof accessories.
- h. All parapet and cap flashings, soffit, fascia, gutters, downspouts, splash blocks, insulation, trim, metal panels, and related sheet metal work are a part of this Trade Package.
- i. Unloading of metal building materials is part of this trade package.

20. Combination Structural Steel & Metal Building Systems Erection (Combo of packages 9 & 19)

This Trade Package is a combination of **Trade Package 9 Structural & Misc Steel and Trade Package 19 Metal Building System Erection** and shall include all the required scope of both packages.

21. Turnkey Metal Building Systems (Combo of packages 19 & 32)

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Reference Trade Contract Package 19.
- f. Reference Material Purchase Order Package 32.

22. Turnkey Structural Steel & Metal Building Systems (Combo of packages 10 & 21)

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.
- e. Reference Trade Contract Package 10.
- f. Reference Trade Contract Package 21.

23. Plumbing

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel
- c. Protection of Work by others.
- d. Daily Clean up.

- e. All piping, specialties, fixtures and accessories required to complete plumbing system.
- f. Complete water system to the site utility point shown on the civil drawings 5' outside building slab. Include final connections.
- g. Complete sanitary system to the cleanouts located 5' outside the building slab and/or to sample manhole at oil & sand interceptor. Include final connections and cleanouts.
- h. Provide oil & sand interceptors. Include final connections.
- i. Complete building drainage connections to site storm drainage piping 5' outside building slab. Include final connections.
- j. Provide downspout connectors as required.
- k. Complete condensation lines to the site utility point shown on the civil drawings 5' outside building slab. Include final connections.
- l. Verify/ coordinate with the site utility package for condensate lines, water system and sanitary system.
- m. Include connection and disconnection of temporary water and sanitary piping to GC construction trailer.
- n. Include all costs for fees and permits for your work.
- o. Excavation, backfill and disposal of soils off-site for your work.
- p. Return trench excavations to original or better condition.
- q. Exclude install of owner furnished equipment unless stated otherwise.
- r. Include rough in and final connections for owner furnished equipment unless stated otherwise.

24. HVAC

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel.
- c. Protection of Work by others.
- d. Daily clean up.
- e. Provide automatic control systems, complete, including hardware, software, interlock wiring, and conduit where exposed in mechanical rooms.
- f. Provide all ductwork and duct insulation as required including flashing or waterproofing of exterior ductwork.
- g. Provide setting of all units, complete, including anchoring as required, and all equipment required to set units including plywood and curbs.
- h. Provide sleeves, vents, piping and layout through walls and slabs required for work of this trade package.
- i. Coordinate roof penetrations, curb and wall panel siding louver sizes and locations with metal building and roofing contractor.

- j. Provide all louvers and wall caps. Install and seal with approved caulking and flashing complete.
- k. Coordinate conduit from wall sensors to above ceiling as required for concealment with electrical contractor.
- l. Provide exhaust fans and equipment, complete.
- m. Provide testing and balancing by independent test/balance contractor.
- n. Provide inspections and tests as required.
- o. Include all costs for permits and inspection fees.
- p. Provide and install sealant around all exterior louvers, sealant around pipes and installation of plenums, complete.
- q. Provide filter media over all returns for units used during construction. Unit filters and additional filter media shall be replaced on regular schedule to prevent excessive dirt in equipment and coils.
- r. Demonstrate operation of units to owner and furnish complete operating manuals.
- s. Provide and replace temporary filters while under construction.
- t. Excavation, backfill and disposal of soils off-site for your work.
- u. Return trench excavations to original or better condition.
- v. Exclude install of owner furnished equipment unless stated otherwise.
- w. Include rough in and final connections for owner furnished equipment unless stated otherwise.

25. Mechanical (Combination of Plumbing and HVAC)

This Trade Package is a combination of **Trade Package 23 Plumbing, and 24 HVAC** and shall include all the required scope of both packages.

26. Electrical and Low Voltage Systems - Complete

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work.
- b. Cost of safety for your personnel.
- c. Protection of Work by others.
- d. Daily clean up.
- e. Trenching, bedding, backfill and marker tape for underground conduits.
- f. Return trench excavations to original or better condition.
- g. Include all costs for electric company charges, permits and inspection fees.
- h. Temporary power and temporary lighting. Include all wiring, devices, equipment, etc. in this package. See Section 01 5000 Temporary Facilities and Controls for additional information.
- i. Disconnects and switches as required.

- j. Provide electrical panel boards, and distribution panels.
- k. Provide electrical raceway and conduit systems.
- l. Provide merge loop sensors complete. Coordinate work with Concrete Contractor.
- m. Testing and adjustments of electrical system.
- n. Sleeves and layout through walls and slabs required for work of this trade package.
- o. Electrical grounding.
- p. Provide fire alarm system per plans and specifications.
- q. Provide camera system rough in per plans and specifications.
- r. Site lighting complete including fixtures and wiring.
- s. Include connection and disconnection of temporary electric for CM construction trailer (if provided).
- t. Excavation, backfill and disposal of soils off-site for your work.
- u. All electrical work shown on civil sheets is part of this package.
- s. Exclude install of owner furnished equipment unless stated otherwise.
- t. Include rough in and final connections for owner furnished equipment unless stated otherwise.

1.12 DEFINITION OF THE EXTENT OF TRADE CONTRACT WORK

- A. Determines which Trade contract includes a specific element of work.
- B. Local custom and trade union jurisdictional settlements do not control the scope-of-work included in each Trade contract. When a potential jurisdictional dispute or similar interruption of construction activities is first identified or threatened, the affected Trade contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and its delays.
- C. As point of clarifications, note the following:
 - 1. Construction Manager Temporary toilets.
 - 2. Construction Manager will be responsible for temporary fencing.

1.13 MATERIALS PURCHASE ORDER BID PACKAGES

- A. Materials Purchase Order Bid Packages: All Materials Purchase Order Bid Packages are separate supply contracts with the Construction Manager and shall include furnishing all shop drawings and other required submittals. Coordinate work of these supply contracts with Construction Manager's Representative and work of Trade Contractors. Material Purchase Order Packages for this project include:

- 31. Structural Steel & Miscellaneous Metals
- 32. Pre-Engineered Metal Building
- 33. Hollow Metal & Wood Doors, Frames & Finish Hardware
- 34. Fire Extinguishers and Cabinets
- 35. Toilet Accessories
- 36. Exterior Security Vault

1.14 WORK PERFORMED UNDER SEPARATE MATERIALS PURCHASE ORDER BID PACKAGES

- A. This is not a complete list of all Work, but is a general guideline. The Contract Documents for these sections determine the total scope of the work. Each Materials Purchase Order Bid Package can be summarized as follows:

27. Structural Steel & Miscellaneous Metals

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Furnish FOB project site, including delivery(s) as required miscellaneous/disposable materials required for the erection and installation of structural, and miscellaneous steel including but not limited to steel columns, beams, ladders, anchor bolts, tube steel, and fasteners as indicated.
- b. Lintels, headers and other miscellaneous steel items that attach to the surface of masonry.
- c. Exterior hand rails.
- d. Steel posts, gates, and accessories at the dumpster enclosure.
- e. Engineering, Submittals and Shop Drawings.
- f. Exclude Sales Tax.
- g. Exclude Erection.
- h. Design connections not detailed on the drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in Arkansas.
- i. Perform field measurements as required.

28. Pre-Engineered Metal Building

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
Refer to Drawings
05 50 00 Metal Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Furnish FOB project site, including delivery(s) as required a complete pre-

engineered metal building and standing seam metal roof panel system, building and roof insulation, Expansion joint assemblies, roof specialties and roof accessories, parapet caps and flashings, soffit, fascia, gutters, downspouts, splash blocks, trim, metal wall panels, and related sheet metal.

- b. Engineering, Submittals and Shop Drawings.
- c. Exclude Sales Tax.
- d. Exclude Erection.
- e. Perform field measurements as required.

29. Hollow Metal & Wood Doors, Frames & Finish Hardware

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

08 71 00 Door Hardware

08 11 00 Metal Doors and Frames

08 14 00 Wood Doors

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings.
- b. Exclude Sales Tax.
- c. Furnish FOB project site, including delivery(s) as required, all steel and hollow metal doors and frames.
- d. Furnish FOB project site, including delivery(s) as required, all door hardware.
- e. Refer to all trade packages for doors, frames and hardware provided by others.

30. Fire Extinguishers and Cabinets

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes

10 44 16 Fire Extinguishers

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings
- b. Exclude Sales Tax
- c. Furnish FOB project site, including delivery(s) as required, all fire extinguishers and cabinets.

31. Toilet Accessories

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
10 28 00 Toilet Accessories

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings
- b. Exclude Sales Tax
- c. Furnish FOB project site, including delivery(s) as required, all toilet and bathroom accessories complete with anchors.
- d. Furnish FOB project site, including delivery(s) as required, all janitors sink accessories complete with anchors.

32. Exterior Security Vault (Knox Box)

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

Specification General Notes
10 41 00 Exterior Security Vault

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings
- b. Exclude Sales Tax

PART 2 - ENGINEERING AND SHOP DRAWINGS

2.1 CONSTRUCTION DRAWINGS AND PROJECT MANUAL

- A. The owner (through the Construction Manager) will furnish one (1) set of Contract Drawings and the Project Manual, without cost, to each Trade Contractor for his use in construction of the work unless otherwise negotiated. Each Trade Contractor is to supply all Contract Drawings and Project Manuals to his subcontractors or material suppliers.
- B. Additional sets or portions of Contract Drawings and Project Manuals, beyond the sets furnished by the Owner, that are requested by a Trade Contractor or Materials Purchase Order Company, will be furnished for the actual cost of printing at the Trade Contractor's or Materials Purchase Order Company's expense.

2.2 EXAMINATION OF THE PREMISES

- A. Before submitting his quotation, each Trade Contractor will be held to have examined the premises and satisfied himself as to existing conditions under which he will be obligated to operate or that will in any manner affect the work under this contract.

2.3 TRADE CONTRACTORS USE OF PREMISES

- A. General: The Trade Contractors shall limit their use of the premises to construction activities in areas indicated; allow for Owner occupancy and use by the public.
 - 1. Confine operations to areas within contract limits indicated. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed.
 - 2. Burial of waste materials: Do not dispose of organic and hazardous material on site, either by burial or by burning.
 - 3. Each Trade Contractor will be responsible for leaving work area broom clean.

2.4 COLOR RELATED ITEMS

- A. Verify color/texture/pattern selections prior to ordering and prior to application/installation.

2.5 TIME FOR COMPLETION

- A. Time for substantial completion of all work under this contract is **per the Construction Manager.**

PART 3 - PRODUCTS - NOT USED

PART 4 - EXECUTION - NOT USED

END OF SECTION