



PROJECT:

Online School & Special Education
Administration District Office Expansion
Clovis, CA

Date : 10/10/23

TETER Project No.: 12242

CLIENT:

Clovis Unified School District
1450 Herndon Ave.
Clovis, CA 93611

District Bid Number.: 2965

DSA File No.: n/a

DSA Appl. No.: 02-120813

The following additions, deletions and revisions to the plans, specifications and Addenda shall become a part of the plans and specifications. It is the responsibility of the General Contractor to submit the information contained in this addendum to all subcontractors and suppliers. The Bidder shall acknowledge receipt of the Addendum in the Bid Proposal. (Addendum number of pages: 1 pages + 2 attachments = 63 total pages).

PROJECT MANUAL:

2-01: PROJECT MANUAL, - “APPENDIX”, revise as follows:

A. Add the following:

- a. “SUMMARY OF WORK”, to the project manual appendix. (51 pages)
- b. “CONSTRUCTION SCHEDULE” to the project manual appendix. (11 pages)

2-02: PROJECT MANUAL, - “NOTICE TO BIDDERS”, revise as follows:

A. Revise DOE-2 “Contractor License requirements (,= or)” from “C-36” to “C-36 or A”.

MISCELLANEOUS:

2-03: LAST DAY TO SUBMIT RFIs FOR RESPONSE IS 10/24/2023. RFIs SUBMITTED AFTER THIS DATE MAY NOT BE RESPONDED TO IN ORDER TO MEET THE REQUIREMENT TO ISSUE THE FINAL PROJECT ADDENDUM.

END OF ADDENDUM NO. 2

Jamie Miller
Architect of Record

SUMMARY OF WORK

PART 1 - GENERAL

1.01 SUMMARY

A. General: Construction of BASE BID and Alternate portions of the work for **Clovis Unified District Office Expansion – Online School & Special Education Administration**, Clovis, California. BASE BID and Alternate portions of the work are defined as all material, labor, equipment, and services necessary to do all work shown on the drawings and called for in the Specifications.

General Summary of the Project

The following information applies to all Bid packages and shall be reviewed carefully for inclusion in each bid. Following are critical logistics related to the Project:

1. Construction to include; Phase 1 of Clovis Unified's District Office Expansion. This phase consists of new construction of (2) 25000sf Structural Steel/Wood Framed Buildings including all new site utilities, new onsite/offsite improvements including sidewalks, landscaping, and parking lots.
2. All work for the project will be performed during the hours of 7:00a.m to 3:30p.m. Utility tie-ins may be required to be performed after hours.
3. Submittals and material procurement shall begin immediately upon award or letter of intent from the District.
4. Bid packages shall review the project completely prior to bidding the work.
5. Any substitution of details or materials must be pre-approved by the Architect, engineers, and DSA.

In addition to the summary of work for each Bid Package, the following will apply and become a part of the contract with each respective Bid package.

Storm Water Pollution Prevention Plan and Dust Control

1. Storm Water Pollution Prevention Plan (SWPPP) will become a part of the contract with each respective Bid Package. Initial SWPPP will be installed by the Earthwork Bid Package.
2. Provide BMP controls for own work, or as included in each bid package.
3. All work under each Bid Package shall comply with Air Pollution Control District Standards. Provide dust control and plan for own work.

Submittals and material procurement

1. Submittals and material procurement shall begin immediately upon award or letter of intent from the District.
2. Material procurement is critical and shall be diligently pursued to meet the contract schedule.

Contract

1. Please be advised that all successful bidders will be required to enter into a prime contract agreement with Clovis Unified School District.

Schedule

1. Bid packages shall review the project and schedule and site logistics plan completely prior to bidding the work.
2. The bid package will be required to provide a schedule and crew sizing showing how the work will be accomplished within the given time frame.

Crew Sizes

1. All bid packages shall review the schedule and confirm that they can crew the project accordingly prior to submitting a bid. Include with each bid minimum and maximum crew sizes projected for the project.

State Agency Requirements

1. All work shall comply with OSHA requirements, SWPPP, and Air Pollution Control District.

Coordination of work

1. Coordination of work during the preconstruction period is equally as critical to resolving all issues prior to the start of work. Bid package shall review the project, coordinate, and question any issues to allow resolution prior to the start of work.
2. Review and verify all existing conditions. Property dimensions as shown are based on record information and should be field verified by a property surveyor prior to construction.
3. All bid packages shall attend coordination meetings and provide coordination drawings for underground and above ceiling work and for coordination of utilities, openings and other areas that require interface between trades. Note conflicts and provide potential solutions to the architect for review. Coordination and drawing approval must occur prior to excavation (and/or) overhead work. Bid packages shall attend a pre-installation meeting prior to the start of their work onsite. All bid packages shall be available for pre-installation meetings of other bid packages for coordination of related work.
4. Provide written request for information through the CM for layout information from related trades for all rough-in, embedded items, openings, and block-outs, etc.
5. Request and review all associated shop drawings for coordination and layout purposes prior to installation of related materials.
6. Coordinate all work with mechanical, plumbing, and electrical Bid package for shut down of services as needed. (48) hours' notice is required prior to all shut down activities.
7. Review as-builts & underground locator survey & pothole utilities prior to starting work.

Temporary Utilities:

1. Temporary Construction Power will be provided by the Electrical Bid Package. Temp Construction Power to consist of the following:
 - a. Connect to existing 400A panel. Run (4) 2" conduits from existing panel to (2) locations at each building for a total of (4) locations. Provide all necessary wiring and components for hook up. Provide (1) temporary power box at each conduit location for a total of (4) temporary power boxes.
 - b. Temporary power boxes shall remain in service until completion of project or until permanent power is available at the buildings.
 - c. Provide daily inspection, testing and maintenance of temporary power system per OSHA regulations. Secure temporary power boxes from the end of each workday to the start of the next.
 - d. Any additional power needed shall be provided by the bid package in need.
 - e. Lighting for own work areas to be provided by each package. Egress Lighting to be provided by electrical package. Locations per Electrical SOW.
2. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
3. Portable Toilets will be provided by the Construction Manager.

Site Logistics:

1. Only company vehicles are allowed on the construction site. Personal vehicle will be confined to the designated parking lot on site. See access plan for specifics. No tool drop-off by personal vehicles will be allowed. Bid package to make provisions for transport or tool distribution needs.
2. Storage areas will be confined to the areas designated by the CM (see access plan). Staging areas around the building shall be coordinated with the CM. Storage onsite will be controlled due to limited space available.

General Items to be provided by each bid package:

1. Contact Underground Service Alert, and CUSD a minimum of (48 Hour Prior to Excavating or Digging).
2. Protect all work, new and existing, from damage until acceptance by owner.
3. Provide water and shade for own crews.
4. Furnish all access to roof for own work.
5. Provide dewatering for own work.
6. Furnish and install own floor protection (i.e., Tarps, plastic, plywood, etc.)
7. Furnish and install all physical layout for own work.
8. Each bid package will be responsible for removal from the site of all debris and spoils generated by each bid package. Daily clean up is required. Coordinate dumpster location with Construction Manager prior to setting. Comply with requirements of the plans and specifications for recycled content and reporting.
9. Secure all ladders and lifts each evening.
10. Provide protection of all roofing when own work requires access on the roofing systems.
11. Provide caution tape and/or barriers for open area work and traffic control.
12. Each bid package will be responsible for their wash out, wash out area as designated by the CM.
13. Provide hoisting/rigging for own work.
14. Review as-builts & underground locator survey & pothole utilities prior to starting work.
15. Contractors shall be responsible for encroachment permits and inspection fees related to the encroachment permits only. All other permits and fees will be paid by the District.
16. Contractors shall comply with codes listed in project plans.
17. Reference building commissioning specification for building systems to be commissioned.
18. Any substitution of details or materials must be pre-approved by the Architect, engineers, and DSA. All substitution requests must be submitted to MWC prior to bid. This Bid Package is responsible for all costs and time delays required for substitution approval.
19. Contractors shall schedule deliveries of equipment and materials separately for their installation in each building with CM. Materials shall not be stored on-site until the respective installation activity begins at each building. If warehousing of contractor equipment or materials is necessary, the contractor shall secure a bonded location and include such cost within the base bid amount.
20. Provide protection for workers during own work activities at elevated installations per OSHA regulations.
3. Furnish and install street cleaning for own scope of work as necessary. Any mud/debris will need to be cleaned up immediately as needed by the Bid Package responsible.
21. Provide copy of daily reports to Construction Manager each day work is performed on site.
22. Provide copy of weekly safety meeting sign in sheet to Construction Manager each week work is performed on site.
23. Provide copy of IIPP

DISTRICT PROVIDED SURVEY & UNDERGROUND LOCATING (FOR REFERENCE ONLY)

Provide Field Engineering/Survey Services per the following for Site and Offsite work:

Specific Requirements

1. Provide move-ins for each section of work as listed on the Project Baseline Schedule.
2. Calc trenching near footings to be outside angle of repose.
3. Furnish and install all survey for onsite work and offsite work.
4. Verify digital files provided by design team are the bid set documents prior to use.
5. Verify and stake property dimensions prior to construction.
6. Stake limit of first phase of construction.
7. Provide UG utility coordination and attend coordination meetings. Provide color coded clash detection drawing. Confirm there are no clashes between utilities nor trees, fence posts, poles, etc. Provide solutions to conflicts,

Earthwork:

1. Stake construction access roads, construction laydown yard, Temporary power panel location, and construction trailer locations to confirm locations do not conflict with new utilities or electrical service.
2. Staking for demolition of existing curbs.
3. Establish a minimum of two permanent horizontal and vertical control points on the site, remote from the building area. Referenced to data established by survey control points.
4. Staking for over excavation limits of Building pads.
5. Staking of parking lot curbs with offset determined by concrete bid package.
6. Staking of drain basins, streets, swales, and grade breaks.
7. Certify site grades after completion of rough grading.
8. Certification of site grades at project completion.

Under Ground Utilities:

1. Staking of all electrical and low voltage vaults, fixtures, flagpole lights, boxes, transformers, and switchgears – horizontal and vertical.
2. Stake all PG&E Rule 16 trenching and equipment locations.
3. Staking of all storm drain lines (manholes) and drain inlets, sewer lines and cleanouts (50'); domestic water, water meter, backflows, fire water, Irrigation service and backflow, gas lines, gas meters, vaults, EV charging stations, and monument sign (as required for excavation and installation horizontal and vertical) at the site.
4. All valve locations.
5. Stake all site lighting and camera poles.
6. Stake all fire Hydrants, check valves, FDC, and PIV locations.
7. Stake all irrigation sleeves, irrigation service, backflow preventer and booster pump.
8. Stake all lateral tees and POC's at all Buildings for all utilities.
9. Stake new FID Irrigation line and vents.
10. Certify rough grade after each utility installation.
11. Coordinate and stake for temp construction power pathways (see attached temp power plan)
12. Provide UG utility coordination and attend coordination meetings.

Site Concrete Work:

1. Staking for all concrete walks, curbs, gutters, mowstrips, signs, walls, flag poles, planters/seatwalls, equipment pads, bike racks, etc.... except concrete that can be determined off the edge of buildings.

Fencing:

1. Staking of chain link and ornamental fences and gates.
2. Staking for CMU fencing and trash enclosure.
3. Staking of fence mow strips – horizontal and vertical.

Buildings:

1. Provide 1 permanent horizontal and vertical control point at each building.
2. Staking for building corners determined by concrete bid package.
3. Provide survey for all building grid lines at building pad, reference points and radiuses as required.
4. Certify Building pads.
5. Certify steel column anchor bolts prior to concrete placement – horizontal and vertical.

Documents:

1. Cut sheets and reference drawings for all stake items.
2. Clash detection coordination study prior to site utility installation.
3. Color coded as-builts snapped off buildings.

Underground Locating:

1. Provide GPR underground locating for entire site. Provide dimensioned color coded document at completion of scan showing all utilities found.

End of Survey Scope

DOE-01 – Earthwork, Paving, and Demolition

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
02 30 00	Subsurface Investigation
31 00 00	Off-site Development
31 11 00	Site Clearing
31 20 00	Earthwork
31 22 22	Soils Materials
31 50 00	Excavation Support and Protection
32 11 26	Aggregate Base Course
32 12 16	Soil Sterilization
32 12 17	Asphalt Concrete
32 13 73	Concrete Paving Joint Sealants
32 17 23	Pavement Markings
32 28 52	Parking Lot Furniture
Geotechnical Report	

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish and install all layout for own work from survey provided by the district. See survey scope of work for reference. This bid package will be responsible for all additional layout not performed by the survey contractor.
2. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by each bid package.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Provide all power for own work.
5. Provide dewatering for own excavations.
6. Protect survey stakes for own work and maintain until installations are complete.
7. Protect existing concrete curbs/lighting/drain inlets/hydrants/stubbed utility to remain. Install/maintain/remove snow fencing protection.
8. Review UG locator, and coordination drawings prior to demolition and advise of any conflict between existing utilities and demo scope.
9. Pothole to locate and verify the underground utility lines prior to removal. Utilities to be capped by utility contractor.
10. Perform re-compaction of fill materials in accordance with Geotech report recommendations or specifications. Perform over excavation at building areas in accordance with Geotech report recommendations.
11. Ensure off-site permit has been obtained by the owner prior to demolition activities within the county right-of-way.
12. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Coordinate and allow access to building pads for building related scope of work (concrete, plumbing, utilities, electrical)
2. Utilize all excess material spoils from utilities and foundations to complete grading. Other bid packages shall dump spoils at a designated location for grading by this bid package. Figure additional move-in utilize stockpiled material for fine grading and to remove excess material at completion of fine grading.
3. Coordinate all work with local utilities & electrical bid package for shut down of services prior to demo.
4. Obtain all permits required to perform the work. SWPPP will be obtained by the District and installed by this bid package.
5. Hold all turf areas down at concrete, mow strips, and planters per plans.

Furnish and Install Items

1. Furnish and install all clearing/stripping/grubbing, demolition, grading, paving, parking lot sealer, site signage for the project complete.
2. Provide own means of water supply for use during construction. If water tank is preferred, coordinate exact location onsite with CM. Provide temp water meter for own work. All costs associated with temp water usage shall be the contractors responsibility.
3. Furnish, install, and remove at completion all temporary SWPPP BMPs for the project complete. See SWPPP included in bid documents.

4. Obtain and cover all associated costs for traffic control plan for own work. Provide daily maintenance as necessary.
5. Remove site concrete as called for on plans. For concrete removal, remove to the nearest tooled joint or expansion joint of improvements designated to remain.
6. Remove all asphalt as called for on plans.
7. Remove wood barricades as called for on plans.
8. Provide all sawcut as shown for demolition. Include additional sawcut (and additional demo if needed) at completion of project for any existing asphalt that may have been damaged during construction.
9. Furnish and install street cleaning for own scope of work as required by municipal ordinance.
10. Grade all earthwork to within tolerances specified.
11. Furnish and install all cut/fill necessary to perform work. Excess dirt can be stockpiled at location designated on Phase 2 site adjacent to project.
12. Sand and vapor barrier to be furnished and installed by concrete package at the buildings only. All other materials shall be provided by this bid package.
13. Furnish and install fine grading of the site on separate move-ins (as scheduled by the construction manager) to accommodate the site concrete & mow strips installation. Coordinate backfill and final fine grading activities with the concrete bid package to eliminate damage to new site concrete.
14. Furnish and install all grading and swales for landscape to $\pm .10'$.
15. Maintain and protect building pads to within tolerance, elevation, moisture, weed free and compaction until accepted/received by the concrete package as noted in the schedule.
16. Furnish, install, maintain, and remove all temp access roads, staging, paved runoff area, and lay down areas as scheduled/directed by the CM and shown on the site logistics plan. See Site logistics plan for actual material, dimensions, and thickness required. Furnish, install, maintain and remove (2) controlled entrances per site logistics plan. Include 3 mobilizations to maintain/relocate controlled entrance stations as requested by the CM throughout construction.
17. Perform site stripping/grubbing in accordance with geotechnical report recommendation.
18. Furnish and install excavation of mow strips and thickened sections for site concrete.
19. Furnish and install backfill of mow strips, walks, curb, curb & gutter, planter, and turf areas.
20. Furnish and install additional cut at heavy duty concrete and paving areas. Provide compacted ag base at heavy duty concrete areas per Detail A/CX1.1
21. Furnish, install, and maintain traffic control for work included in this bid package.
22. Provide cleaning of asphalt paving areas prior to installation of final lift and at the end of the project for sealing (coordinate with the CM) per the schedule.
23. Flood test all A.C. paving prior to sealing. Provide for minor patching of asphalt at completion of project prior to sealing asphalt.
24. Furnish and install all site signage, striping, and concrete at posts at site complete.
25. Furnish and install painted curbs with lettering.
26. Furnish and install all wheel stops.
27. Furnish and install certification of final grading to confirm grades prior to landscape.
28. Furnish and install permanent asphalt patch for all street utility tie-ins and for all permanent and temporary curb modifications for approaches.

29. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.
30. Provide additional mobilization at end of project to fine grade/repair any erosion and rutting in the ponding basins.
31. Furnish and install temp barricades as noted on Civil Drawings.
32. Furnish and install demolition/sawcut, earthwork, paving, and striping per City of Clovis Offsite Improvement Drawings. Obtain traffic control permit as required. Include H & K markers as required by drawings.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-02 - Site Utilities

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00 General Conditions for Contracts on Construction Management Projects
Division 01 General Requirements
02 30 00 Subsurface Investigation
22 05 00 Plumbing (as applies to site natural gas)
31 20 00 Earthwork (as applies to this bid package)
31 22 22 Soils Material (as applies to this bid package)
31 23 33 Trench, Excavation, and Backfill (as applies to this bid package)
31 50 00 Excavation Support and Protection (as applies to this bid package)
33 12 00 Water Utilities
33 30 00 Site Sewer Systems
33 40 00 Storm Drainage
Geotechnical Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish and install all layout for own work from survey provided by the district. See survey scope of work for reference. This bid package will be responsible for all additional layout not performed by the survey contractor.
2. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.

3. Furnish and install all sleeves in masonry, concrete, and foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related bid packages prior to excavation.
4. Furnish off-haul of all excavation spoils upon compaction of trench sections to point onsite as directed for work included in this bid package. Earthwork package to use spoils for completion of import materials. Provide spoils amount for this contract to Earthwork bid package within 10 days of award of contract.
5. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by this bid package.
6. Provide dewatering for own excavations.
7. Provide trench shoring as required.
8. Provide trench plates at excavation as required to allow access for other trades.
9. Ensure owner has obtained city permit prior to off-site tie-ins/POC.
10. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for underground work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work. Provide a detailed site work schedule to coordinate with other utilities.
2. Coordinate all work to provide access to buildings for other trades as scheduled. Provide an underground utility schedule of where and when piping operations will be performed. Coordinate with other activities in the schedule for other trades and confirm the schedule meets the CMBS dates.
3. Building Plumbing bid package shall make physical connections to site utilities.
4. Purity tests are required on all water system installations. Contractor to coordinate with the Authority having jurisdiction.
5. Clean and disinfect all site piping. Create disinfection plan and coordinate with building bid packages to allow for complete and maintained disinfection of the entire system until acceptance by owner. Building Plumbing bid package will be responsible for cleaning and disinfection of building piping.
6. At conflicts with electrical duct banks, electrical duct banks are to have the lower elevations.
7. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the construction manager.
8. Installation of irrigation sleeves shall be by the Irrigation Bid package.
9. Coordinate locations of all valve boxes and manholes away from doorways.
10. Coordinate location of site utility installations with location of building structure foundations to maintain clearance outside the foundation angle of repose.
11. Protect survey stakes for own work and maintain until installations are complete.
12. Coordinate with fire sprinkler contractor for POC at building riser locations.
13. Coordinate site utilities to miss all other site improvements including landscaping.
14. Provide detailed schedule for all work included in this bid package.

Furnish and Install Items

1. Furnish and install street cleaning for own scope of work as required by municipal ordinance.
2. Obtain and cover all associated costs for traffic control plan for own work. Provide daily maintenance as necessary.
3. Furnish and install all underground utilities onsite and offsite. Obtain and pay fees for encroachment permits as required. Provide demo and temporary patchback for utility tie ins at street. Any demo at gutters/approaches shall be temporarily addressed/modified to prevent standing/interrupted water flow. Certify grades have been returned to original grade. Special conditions are as follows:
 - a. Furnish, install, and maintain 2x4 marker stakes indicating end and depth of service for connection by other bid packages. Provide as-built points for each end of service on as-built drawings. Should inaccurate information be recorded, this bid package will be responsible for the costs of locating the end of service.
 - b. Pothole and confirm locations of existing plumbing utilities prior to excavation and maintain marking during construction.
 - c. Fire Water- Furnish and install all fire line piping complete with stub into all buildings per plan AFF. Stub with flange fitting, and cap for Fire sprinkler contractor. Furnish and install all detector check valves, FDC's, PIV's, christy boxes, required cages, and fire hydrants, paint per local authority standards. Coordinate fire alarm connections to be installed by the electrical bid package. Perform tie-in to street utility. Confirm City of Clovis Process.
 - d. Storm Drain, Sewer, and Domestic Water - Install all utilities to designated locations on site, or capped to within 5' of building, or designated POC for hook up by other building package. Furnish and install shut off valve at POC. Furnish and install back flow prevention/RP devices with protection enclosures complete. Furnish and install new domestic water meter. Perform tie-in to street utility. Furnish and install concrete structures at ponding basins. Include all necessary excavations, rebar/steel angle, concrete, and grates for complete structure installation.
 - e. Landscape Irrigation line – Site Irrigation main lines to be installed by the irrigation bid package including the booster pump. Irrigation service tie in at street and backflow prevention/RP device to be installed by Site Utilities package. Furnish and install new irrigation water meter.
 - f. Site Gas – Site gas to be furnished and installed by this bid package. Medium pressure gas lines to be provided up to 5' outside building footprint. Shut-off valve and boxes to be furnished and installed by this bid package. PG&E Gas Utility barrier posts and concrete foundations per PG&E Drawings to be furnished and installed by this package. Pothole existing high pressure gas line. PG&E to perform hot tap and install utility meter per approved design drawing.
 - g. FID Irrigation Pipe – Remove and properly dispose of existing FID irrigation pipe/standpipe/vent and replace with new pipe per Fresno Irrigation District Drawings. Contractor to pothole and verify existing horizontal/vertical locations and size of pipe prior to completing any additional work and report findings to FID. Include tracer wire and macwrap per FID standard drawings. Make physical connections at both ends of new pipe. Include all necessary fittings and reinforcement, waterstop, and bedding per FID Standards. Provide venting tubes as required. Irrigation Tie-ins shall be complete no later than February 15, 2024.

4. Install all utilities to within 5' of building or designated POC for hook up by other bid packages except as noted above.
5. Furnish and install all backfill and compaction of excavations to original subgrade for work included in this bid package.
6. Furnish and install all concrete required for installation of thrust blocks, manholes, vaults, boxes, underground structures, for work related to this bid package.
7. Furnish, install, and maintain protection of work included in this bid package from damage and intrusion of dirt and / or debris into the piping systems for the length of the project per the SWPPP. Protection shall allow use, as directed by the District, of the underground utility systems during construction for construction and testing operations without the start of the warranty period until the notice of completion for the project. Any dirt/debris that enters storm drain piping shall be removed and cleaned by this package at completion of project prior to owner turnover. Set inlets to allow drainage until site finishes are installed. Raise to proper elevation prior to installation of site concrete finishes. Raise all site utilities to grade in paving areas once paving is complete. Provide all patch back as necessary.
8. Furnish and install all signage and lettering called for in the contract documents related to work of this bid package.
9. Provide camera/ video inspection of all sewer and storm drain piping to show proper flow and cleanliness. Provide tape to owner for review prior to final acceptance of the project. This is for piping larger than 6".
10. Furnish and install pipe bollards/sleeves/foundations as shown at new fire hydrant locations.
11. Furnish and install caps with appropriate fittings at any utilities that call to be stubbed for future.
12. Raise all utilities to grade in paving areas once paving is complete. Provide all patch back as necessary.
13. Adjust all new and existing utility boxes/structures to grade in landscape and concrete/ac-paving areas.
14. Furnish, install, and maintain protection of work included in this bid package from damage and intrusion of dirt and / or debris into the piping systems for the length of the project per the SWPPP. Protection shall allow use, as directed by the District, of the underground utility systems during construction for construction and testing operations without the start of the warranty period until the notice of completion for the project. Any dirt/debris that enters storm drain piping shall be removed and cleaned by this package at completion of project prior to owner turnover. Set inlets to allow drainage until site finishes are installed. Raise to proper elevation prior to installation of site concrete finishes. Raise all site utilities to grade in paving areas once paving is complete. Provide all patch back as necessary.
15. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-03 – Concrete (W/Rebar)

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
02 30 00	Subsurface Investigation
03 15 12	Post Installed Concrete Anchors
03 30 00	Cast-in-place Concrete
03 35 18	Concrete Cure-Sealer-Hardener
03 39 10	Topical Concrete Vapor Control Barrier
07 26 16	Underslab Vapor Retarder
07 92 00	Joint Sealants
31 20 00	Earthwork (as applies to this bid package)
31 31 16	Termite Control
32 13 13	Site Concrete Improvements
32 13 15	Concrete Reinforcement (as applies to this bid package)
32 33 10	Tactile Detectable Warning Surface Tile
Geotechnical Report	

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish off-haul of all excavation spoils to point onsite as directed for work included in this bid package. Earthwork package to use spoils for completion of import materials. Provide spoils amount for this contract to Earthwork bid package within 10 days of award of contract.
2. There will be one wash-out area for each bid package as designated by the Construction Manager. This bid package will be responsible for removal from the site of all debris generated by this bid package.
3. Provide all backfill of excavations to original sub-grade for work included in this bid package.
4. Provide all clean up and provide off-haul of own debris from site.
5. Provide dewatering for own excavations.
6. Ensure owner has obtained county permit prior to off-site and curb/approach modifications.
7. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
8. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Review and coordinate layout for all blockouts in concrete as shown in the contract documents, related shop drawings or written layout provided by other bid packages. Coordinate locations with related bid packages prior to installation.
2. Coordinate dimensions with other related bid packages of all equipment and housekeeping pads. Pad sizes shall be provided by other bid packages and physically laid out and installed by this bid package.
3. This bid package will receive all building pads and site at tolerances listed in earthwork specification. This package will be responsible for all additional cut and fill necessary to complete the work of this bid package.
4. Provide access to other trades through reinforcing steel for installation of their work at building lines.
5. Provide layout drawings for all site and building concrete joints for approval prior to installation of concrete.
6. Receive and coordinate written layout from other bid packages for items embedded in or passing through concrete. All sleeves are to be installed by the utility bid packages.
7. Coordinate all embedded items within work included in this bid package that are to be installed at a later time such as fences, posts, etc.
8. Coordinate installation of all sleeves for work passing through masonry/concrete work with respective bid packages prior to excavation. Coordinate guardrail/handrail layout with steel contractor.
9. Coordinate all work to provide access to buildings for other trades as scheduled.
10. Install and coordinate block-outs at the site concrete to facilitate installation of fine grading by Earthwork Bid Package and to protect concrete until fine grading is complete. Complete site concrete block-outs once fine grading is complete. Backfill and fine grade once block-outs have been poured.
11. Earthwork bid package shall hold back earthwork at concrete foundations, footings, etc.. Coordinate hold back dimension with the Earthwork Bid Package of earthwork grading to allow installation of curb/gutter, trash enclosure walls, etc. Backfill by this package.
12. Electrical and site utility bid package shall furnish and install all concrete required for installation of thrust blocks, manholes, vaults, boxes, underground structures, for work related to their bid package.
13. Irrigation sleeves will be installed by the irrigation bid package. Coordinate schedule.
14. Coordinate the location of depressions, block outs, slopes, and drains prior to pour. Coordinate depressed and sloped floors in restrooms and sloped floors at accessible showers with flooring contractors and plumbing contractor for slope to drain.
15. Coordinate and provide floor flatness to comply with concrete specification standards.
16. Physically layout and install all blockouts, openings, etc. in concrete from written layout provided by other contractors for installation of their work.
17. Protect survey stakes for own work and maintain until installations are complete.

Furnish and Install Items

1. Furnish and install all building and site concrete complete including required excavations and rebar. Maintain moisture content at building slab-on-grade areas after acceptance of building pads from earthwork contractor in compliance with geotechnical report recommendation.

2. Furnish and install concrete at play structure. Include all flat work, curb, and ramp. Foundations at play structure poles to be by General Specialties Package.
3. Furnish and install backfill for own work.
4. Furnish and install street cleaning for own scope of work as required by municipal ordinance.
5. Obtain and cover all associated costs for traffic control plan for own work. Provide daily maintenance as necessary.
6. Furnish and install all sand and vapor barrier as detailed at concrete SOG.
7. Furnish and install all CMU foundations including excavation and rebar with lap splice per contract docs for continuation by masonry contractor. Layout of vertical rebar to be provided by CMU contractor.
8. Furnish and install saw cuts in slabs with joint filler. Provide shop drawings for review prior to installation.
9. Furnish and install all concrete collars as required for site utilities including but not limited to: cleanouts, valves, pull boxes, vaults, etc.
10. Furnish and install concrete columns.
11. Furnish and install concrete pad under backflow prevention devices.
12. Furnish and install light pole bases including excavation, concrete, reinforcing steel and backfill.
13. Furnish and install all grouting and/or dry pack for structural steel and misc. iron and light pole bases.
14. Furnish and install excavation, rebar and concrete fill of deepened foundations and rebar for all utilities passing through foundations from physical layout provided by others.
15. Furnish and install all concrete equipment & housekeeping pads, supports and foundations for fixtures and equipment. Non-concrete supports are by respective bid packages.
16. Furnish and install concrete pads for gas meter and main switchboard located in Utility Enclosure.
17. Furnish and install all handicap ramp truncated domes.
18. Furnish and install trash bin enclosure concrete complete including CMU wall foundations.
19. Furnish and install permanent concrete curb patch for all street utility tie-ins.
20. Furnish and install blockouts for steel. Cover and protect until steel and concrete placement.
21. Furnish and install Integral Concrete Floor Moisture Vapor Emission Control System as shown.
22. Furnish and install termite control at buildings.
23. Furnish and install saw cuts in slabs with joint filler. Provide shop drawings for review prior to installation.
24. Furnish and install sealant at concrete floors, building concrete to concrete and concrete to masonry.
25. Furnish and install all drypacking at wall sill plates as required.
26. Furnish and install all wood embedded in concrete.
27. Furnish and install cleaning, dewatering and protection of anchor bolts until turn over to structural steel erection or setting of leveling nuts.
28. Provide all cut required for minor depressions for tile and slopes to drain.
29. Protect all slab block outs for other trades working in the area.

30. Furnish and install excavation, rebar and concrete fill of deepened foundations and rebar for all utilities passing through foundations from physical layout provided by others.
31. Furnish and install all floor prep for floors out of tolerance to comply with concrete specification standards.
32. Furnish and install concrete floor hardener and concrete sealer at sealed floors.
33. Furnish and install all concrete equipment & housekeeping pads, supports and foundations for fixtures, tanks & equipment. Non-concrete supports are by respective bid packages.
34. Furnish and install recessed concrete at Nanawall sill per 14/A823.
35. Furnish, install, maintain, and remove floor protection at all exposed Building floors until sealed concrete finish is complete.
36. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.
37. Furnish and install all concrete required at median including colored stamped concrete per City of Clovis Offsite Improvement Drawings. Obtain traffic control permit as required.

FOB Items

1. None.

Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this bid package:

1. Install all sleeves, handrails, queuing rails, traffic rails, guard rails complete including grout embedded in concrete as provided FOB jobsite.
2. Install all items embedded in concrete (i.e., anchor bolts, hold downs, plates, ledgers, angles, non-bolted tube steel, rails, sleeves, pipe rail, flagpole bases, poles, etc.) as provided FOB jobsite by other bid packages from written layout provided by those bid packages.
3. Install light pole anchor bolts and templates furnished FOB by the electrical contractor.
4. Install flagpole base foundation (including excavation) provided FOB by General Specialties Package.
5. Install and remove when complete all bolt templates provided by other bid packages.
6. Install embedded fence accessories FOB by fencing contractor.
7. Install FOB guard rails at building drinking fountains.
8. Install all framing sill bolts and hold down bolts as provided FOB by the framing package. All layout will be furnished and installed by the framing package.

End of Bid Package

DOE-04 – Building Steel & Fabrications / Metal Decking / Railings

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
05 12 00	Structural Steel Framing
05 31 00	Steel Decking
05 50 00	Metal Fabrications
05 51 33	Metal Ladders

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Provide erection plan prior to erection of buildings.
2. Provide protection of utilities from cranes and equipment. There will be no crane access on the slab.
3. See General Notes at beginning of summary of work specification section for other items.
4. Provide all hoisting/rigging for work in this bid package.
5. Provide all clean up and off-haul of own debris from site.
6. Provide temp power for own work beyond what is provided by the electrical bid package. Refer to Electric Bid Package for specific information.
7. Provide off loading for all FOB items in areas as designated by the CM.

Coordination with Other Trades

1. Provide coordination drawings for above ceiling work and openings for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Request and receive layout (prior to detailing and fabrication) from other bid packages for all items that require holes, openings, reinforcing or bracing related to this bid package's scope of work including but not limited to, bolt holes for attachment, HVAC supports, etc....Allow 21 days for return of dimensions. Provide coordination drawings for dimension mark up by other bid packages.
3. Coordinate all steel through framing and finishes to assure proper fit.
4. Provide a written crane access plan, laydown areas, and movement schedule for coordination with other contractors. Refer to site logistics plan for crane access to buildings. Stabilization of base under erection crane shall be the responsibility of the steel erection contractor if location of crane is outside of access road to buildings. Cranes shall not be allowed on building slabs. Provide non-marking tires for lift equipment on building slabs.

5. Provide setting plan to concrete contractor and certify all anchor bolt layout at least 21 days prior to erection of structural steel. Report any bolts out of tolerance to the construction manager for correction by the concrete bid package.
6. Coordinate priming of structural steel with installation of other materials prior to priming of steel and miscellaneous iron.
7. Water heater brackets are to be furnished and installed by the plumbing bid package.
8. Coordinate edge of slab dimensions with the concrete and framing bid packages prior to installation of slab on grade to assure proper tolerances can be maintained for the wood framing.
9. Coordinate locations of handrail brackets with plaster contractor at exterior walls for stucco block outs.
10. This contractor shall confirm and coordinate all dimensions for structural steel, wood, and metal fabrications furnished by this package. Procure all related information so as not to delay installations as scheduled in the project baseline schedule.
11. Coordinate with Rough Carpentry contractor for wood nailer to beam connections.

Furnish and Install Items

1. Furnish and install street cleaning for own scope of work as required by law municipal ordinance.
2. Furnish and install all Structural Steel, Miscellaneous Iron, and Metal Decking at buildings and canopies not furnished FOB jobsite as noted below.
3. Physically layout and install all block outs, openings, bracing and holes in steel from written layout provided by other bid packages.
4. Furnish and install all steel guardrails/handrails.
5. Furnish and install all primer touch up at welding at structural steel and where chipping occurs from shipping /installation prior to acceptance by painting contractor.
6. Set leveling nuts at anchor bolts to the proper elevation for structural steel installation, assume protection of bolts from the concrete contractor.
7. Furnish and install all tube steel assemblies and angles.
8. Furnish and install all pipe rails, handrails, hold open posts / rails, and guard rails not directly embedded in concrete or masonry.
9. Furnish and install all drilling, epoxy of bolts and wedge anchors for steel and misc. iron at concrete and CMU.
10. Furnish and install all misc. iron & angles attached to concrete and masonry. Provide attachment if not shown to be embedded.
11. Furnish and install all ladders Including roof access ladders at roof hatch and roof access ladders on roof. Refer to A880 & A881 for additional info.
12. Furnish and install all attachment devices for handrails.
13. Furnish and install perforated metal panels.
14. Furnish and install perforated metal screens and grills.
15. Furnish and install continuous L metal per 5/A895.
16. Furnish and install canopies and sunshades complete, to include all decking, angles, grating, etc. All canopy steel, accessories, and components to be galvanized. Review architectural drawings to confirm complete scope.
17. Provide holes in beams for installation of partition walls. Coordinate with Partition wall contractor for exact hole requirements.

18. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. Furnish FOB jobsite all column bolts, ledger bolts, counter bracket assemblies, hardware bolts/washers/nuts for wood to steel and steel to concrete connections and other miscellaneous iron that embeds into concrete and masonry or attaches to framing for installation by those bid packages.
2. Furnish FOB jobsite all bolt templates for all patterns (made of steel) assembled with bolts, nuts, and washers ready for use/installation by the concrete bid package. Deliver, and off-load in an area designated by the CM all templates/anchor bolts for steel columns assembled to the jobsite. Predrill holes oversized for bolt installation. Provide acceptance of anchor bolt installation prior to setting steel columns.
3. Furnish FOB jobsite all associated sleeves for fencing, handrails, and guard rails, etc.... and provide physical layout for installation by the concrete bid package.
4. Furnish embed plates and angles with rebar per contract documents FOB Jobsite for installation by others.
5. Furnish FOB Jobsite all casework support columns and brackets per 9, 10, 14, 18/A861 and similar.
6. Furnish FOB guard rails at building drinking fountains.
7. Predrill holes for fabricated fasteners. Coordinate layout for holes with framing contractor.
8. Furnish threshold and slab edge angles.

Installation of FOB Items

1. None.

End of Bid Package

DOE-05 – Rough Carpentry

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors
06 10 00	Rough Carpentry
06 16 00	Plywood Panel Sheathing
06 18 00	Glue-Laminated Construction

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Provide protection of slab and utilities from cranes and equipment.

2. Provide all hoisting/rigging for work included in this bid package.
3. Provide permits for scaffolding as required.
4. Furnish clean up daily and off-haul of all debris generated by own work.
5. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
6. Temp power will be provided by the Electrical Bid Package. See Electrical SOW for exact requirements. Any temp power required beyond what is described under the electrical package will be the responsibility of this package.
7. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Coordinate and install, from written layout, all blocking, backing, etc. for other contractors from written layout provided. Physical layout to be by this contractor.
2. Coordinate concrete curb vs. framing to assure proper alignment.
3. Provide coordination drawings for above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of the work.
4. Coordinate and provide wall flatness with finish trades to comply with product installation standards.
5. Coordinate locations of window and door frames installed by General Specialties Bid Package. Guarantee door and window opening sizes to be square, plumb, and level.
6. Coordinate with mechanical and electrical contractors for location and size of equipment for platforms built by this bid package including all bolts/hardware.
7. Coordinate with ceramic tile contractor all rough framing dimensions required to meet ADA.
8. Provide review and verification of space for ADA requirements prior to framing. Note all discrepancies.
9. This contractor shall confirm and coordinate all dimensions for wood framing furnished by this package. Procure all related information so as not to delay installations as scheduled in the project baseline schedule.
10. Coordinate with Building Steel contractor for wood nailer to beam connections.
11. Coordinate penetrations through walls for mechanical ducts with HVAC contractor.
12. Coordinate wood nailers/sill at vertical steel after breakout pours.
13. This project has polished concrete floors in several rooms/areas. No markings/paint or bracing attachment will be allowed on polished concrete areas.

Furnish and Install Items

1. Furnish and install all wood framing including but not limited to all lumber, plywood, engineered wood and I-joists systems on the project.
2. Furnish and install all in-wall blocking/backing except that embedded in concrete including but not limited all wall caps, wood plaster screeds, grounds, nailers, stops, plaster expansion joints and moldings, electrical, mechanical, plumbing and reglet flashing, as required for proper installation. Coordinate with respective contractors for elevations.
3. Furnish and install all plywood for interior wall finishes.

4. Furnish and install all exterior plywood complete.
5. Furnish and install all framing and plywood at transformers, electrical panels, and equipment supports.
6. Furnish and install all plywood substrates for interior wall finishes including wood shims at beams/columns to align with adjacent materials.
7. Furnish and install all drilling of holes for own installations.
8. Physically layout and install all block outs, openings, reinforcing and bracing from written layout provided by other contractors.
9. Furnish and install tapered nailer at top of plaster.
10. Furnish and install all tapered nailers at top of steel for wood framing attachment.
11. Furnish and install all framing for architectural access doors shown in the architectural drawings at hard ceilings, soffits, and walls other than utility access doors.
12. Furnish and install framing hardware including but not limited to:
 - a. Simpson hardware, hold downs, washers, nuts, hangers, stiffeners, straps, etc. Concrete Bid Package to install Simpson hardware embedded in concrete provided F.O.B. from this bid package.
13. Furnish and install all wall prep for wall framing out of tolerance.
14. Furnish and install wood backing for roof ladder per 5/A880.
15. Furnish and install wood backing for pipes on roof per 2/P800.
16. Furnish and install Bumper Boards at Trash Enclosures per 19/A105.
17. Furnish and install plywood substrate at stainless steel countertop at coiling door opening. Install countertop support brackets provided FOB by steel package.
18. Furnish and install all backing and supports for OFCI items.
19. Furnish and install all wood fillers at structural steel necessary to provide flush finish with adjacent material as shown throughout the drawings.
20. Furnish and install all bolts and hardware necessary to attach wood to steel members/plates/etc.
21. Furnish and install wood chase wall behind lab casework for utility rough in per 28/A211.
22. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. Provide concrete package with bolts and washers for hold downs and sill plates. Provide physical layout.
2. Furnish FOB all sill bolts, hold down anchors, etc.
3. Provide concrete package with all Simpson Hardware embedded in concrete. Provide physical layout.

Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this subcontractor:

1. Install all steel provided FOB from Steel contractor that is to be attached to wood. Reference Steel Bid Package scope of work.
2. Install bolts/washers/nuts provided FOB by steel contractor.
3. Install counter support brackets

End of Bid Package

DOE-06 – Casework

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
05 50 00	Metal Fabrications (as applies to this bid package)
06 41 16	Plastic Laminate Casework
06 41 18	Solid Surface Countertops
07 92 00	Joint Sealants
11 53 13	Laboratory Fume Hoods
12 36 63	Epoxy Resin Laboratory Countertops

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Provide all clean up and provide off-haul of own debris from site.
2. See General Notes at beginning of summary of work specification section for other items.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.

Coordination with Other Trades

1. Due to schedule constraints field measuring should be considered at wood framing stage in lieu of after all drywall and finishes are complete. Review the schedule to determine necessity relative to fabrication times. If measurement is required at the framing stage, provide measurement to meet the schedule and figure all associated finishes.
2. Coordinate at the jobsite all plumbing and electrical locations during rough-in activities to assure proper fit at time of casework and equipment installation.
3. Confirm ADA clearance for knee space at sink closure panels.
4. Coordinate with Building Plumbing Bid Package for sink openings in countertops.
5. Confirm cabinet lock and keyway with school district and CM.

Furnish and Install Items

1. Furnish and install all openings in casework and tops for other trades.
2. Furnish and install cable holes and grommets as laid out by District.
3. Furnish and install all floor anchorage, angles, and floor blocking for casework. Backing in wall to be provided by the Framing Bid Package.
4. Furnish and install rough wood carpentry framing incorporated into casework.
5. Furnish and install all attachment of all equipment related to this scope of work.

6. Furnish and install wood walls incorporated into casework.
7. Furnish and install epoxy resin countertop and backsplash.
8. Furnish and install fume hood with steel base cabinets per 24/A211 including steel angle per 25/A211.
9. Furnish and install all Lab Science Equipment per 22/A211.
10. Furnish and install window sills and trim.
11. Furnish and install Stainless steel trim at base per Detail 27/A861.
12. Furnish and install exposed 2x ledger per 10/A861.
13. Furnish and install reception casework complete including incorporated 2x framed walls. Framed walls shown on floor plans with symbols indicating wall types per wall legend will be framed by the framing package. All framing incorporated in reception casework will be furnished and installed by this package.
14. Furnish and install incorporated cable tray in casework as shown. Include access doors routing of wiring.
15. Furnish and install casework and wood trim, including but not limited to:
 - a. Casework shelving units, cabinets, desks, reception desks.
 - b. Solid surface countertops, plastic laminate countertops. Coordinate with framing contractor for locations of supports at countertops.

FOB Items

1. None.

Installation of FOB Items

1. Install all steel support brackets provided F.O.B. by the steel bid package. Attach column brackets to concrete floors with bolted connection.

End of Bid Package

DOE-07 – Drywall, Lath, Plaster, Metal Framing

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
06 16 43	Exterior Gypsum Sheathing
07 25 00	Weather Resistive Barriers
07 62 20	Sheet Metal Flashing and Trim
07 92 00	Joint Sealants
09 22 16	Non-Structural Metal Framing
09 24 00	Portland Cement Plastering
09 29 00	Gypsum Board

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Provide permits for scaffolding as required.
2. There will be one wash-out area for each bid package as designated by the Construction Manager. Provide wash out for own installations.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. Furnish clean up daily and off-haul of all debris generated by this bid package.
5. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Coordinate all drawings with the drawings of other bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Physically layout and install all drilling, block outs, openings, holes, etc....from written layout provided by other contractors for installation of their work.
3. Coordinate locations of window and door frames installed other bid packages relative to the location of plaster molding adjacent to the frames to insure a good fit. Window Package to provide physical layout to the plaster bid package for the plaster molding should windows not arrive prior to plaster j mold installation.
4. Provide a plaster control and expansion joint layout for architect approval prior to installation.
5. Coordinate and provide wall flatness with wall finish trades to comply with product installation standards.
6. Provide building access through scaffold during construction.

Furnish and Install Items

1. Furnish and install all metal framing, drywall, taping/texturing, cement board, plaster and sealant systems as called for in the contract documents.
2. Furnish and install all cement board and moisture resistant drywall.
3. Furnish and install sheetrock for fire rated assemblies at general specialty, electrical, plumbing, and mechanical utilities, and fixtures.
4. Furnish and install signage per CBC 703.7 marking and identification at all rated walls.
5. Furnish and install ALL weather resistive barrier at entire building compete including behind metal panels. Refer to drawings for locations where multiple layers occur.
6. Furnish and install all furring including metal hat channel, Z channel closures. Etc at all furred plaster locations.
7. Furnish and install all reveal metal at plaster.
8. Furnish and install all clips for framing to attach to steel.
9. Furnish and install 3/16" less thickness drywall over plumbing fixture support plates to create flush wall.
10. Furnish and install primer coat at gypsum board as called for in the specifications. Confirm all primer is compatible with final finish system.
11. Furnish and install J metal at door and window openings horizontal and vertical.
12. Furnish and install all sealant as noted above, in addition to the following is a list of specific items:
 - a. all sealant at plaster & gyp board to other material transitions.

- b. all sealant at fire rated walls for perimeter and framing penetrations. Fire caulking for utility penetrations by MEPF contractors.
13. Furnish and install metal stud backing for mop racks per 13/A860.
14. Furnish and install backing plates for wall TV mounts per 12/A860.
15. Furnish and install all plaster screeds, reveals, vents and plaster accessories as called for.
16. Furnish and install plaster under flashing edge as detailed and scheduled.
17. Furnish and install all lath and plaster. Coordinate levelness and planes with Rough Carpentry bid package.
18. Furnish, install, and remove scaffolding for own installations.
 - a. Provide daily inspection and provide indemnity for use of scaffold by other contractors.
19. Furnish and install temporary heat and fans as needed for taping/texture activities to meet project schedule.
20. Protect and keep floors clean through completion of work.
21. Furnish and install metal stud backing for electrical panels being surface mounted on metal stud walls.
22. Furnish and install all canopy roof metal framing. Coordinate with Structural Steel and Rough Carpentry Bid Packages.
23. Furnish and install all Simpson hardware required for attachment to wood framing.
24. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-08 - Glass, Glazing, & Storefronts

Furnish and install all work specifically required throughout the project documents to complete the work of this prime-contractor that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
07 62 00	Sheet Metal Flashing and Trim (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)
08 41 13	Aluminum-Framed Entrances and Storefronts
08 43 33	Aluminum-Framed Folding Glass Storefront
08 44 13	Glazed Aluminum Curtain Walls
08 71 00	Door Hardware (as applies to this bid package)
08 80 00	Glazing

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Any substitution of details or materials must be pre-approved by the Architect, engineers, and DSA. All substitution requests must be submitted to construction manager prior to bid. This contractor is responsible for all costs and time delays required for DSA approval.
2. Furnish clean up daily and off-haul of all debris generated by this bid package.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Coordinate locations of window and door frames installed by this prime-contractor relative to the location of plaster molding and drywall termination adjacent to the frames to insure a good fit. Provide physical layout for the plaster /drywall contractor for the plaster molding and drywall. This will allow for work to proceed if frames are not available.
2. Submit shop drawings & procure material so as not to delay the scheduled installation of plaster and drywall.
3. Order windows based on guaranteed rough opening dimensions from the framing contractors.
4. Confirm keyway with school district and Construction Manager.

Furnish and Install Items

1. Provide all design required for deferred approval by DSA.
2. Furnish and install all glass and glazing shown throughout the contract documents.
3. Furnish and install all curtain wall, storefront and alum windows systems complete.
4. Furnish and install glass at door lights. Remove and reinstall screws for stops.
5. Furnish and install operable Nanawall systems complete. Coordinate channel in concrete with concrete contractor.
6. Furnish and install sealants at all aluminum windows and storefront at interior and exterior. This includes windows to flashing, windows to plaster and flashing to plaster.
7. Furnish and install all aluminum flashing, break metal, and flexible flashings as required to provide a complete water tight system.
8. Furnish and install all reinforcing for the storefront system as required by DSA.
9. Furnish and install all hardware for aluminum storefront doors and frames.
10. Provide all water testing of windows per the specifications.
11. Provide 1 mockup in coordination with the plaster, and sheet metal bid package to confirm all flashing and sealant systems.
12. Furnish and install wood shim spacers at storefronts per details on A830.
13. Furnish and install ram board covers at all vertical aluminum jambs for protection of frames during construction.
14. Furnish and install privacy film where required.

15. Furnish and install plywood closures at all aluminum doors and windows if material does not arrive to site prior to building closing for security and weather intrusion.
16. Furnish and install stainless steel trim per details on A822.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-09 – PVC Roofing, Metal Wall Panel, & Sheet Metal Flashing

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
07 42 00	Custom Perforated Metal Panels
07 46 00	Aluminum Siding
07 54 19	Thermoplastic (PVC) Membrane Roofing
07 62 00	Sheet Metal Flashing and Trim
07 92 00	Joint Sealants

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish clean up daily and off-haul of all debris generated by this bid package.
2. Provide all hoisting/rigging for work in this bid package.
3. Provide protection of roof for any work related to this bid package after finished roof is complete.
4. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
5. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Coordinate flashings furnished and installed by Windows/Storefronts Bid Package.
2. Coordinate outlets for building gutters with steel and/or plumbing bid packages for continuation of downspouts.
3. This contractor shall confirm and coordinate all dimensions for roofing. Procure all related information so as not to delay installations as scheduled in the project baseline schedule.

4. Coordinate reglet and termination bar installation with framing contractor for backing locations.
5. Coordinate transitions from plaster to wall/soffit panels with plaster contractor for sequencing of wall air barriers/moisture barriers.

Furnish and Install Items

1. Furnish and install PVC roofing and membrane roofing systems complete including but not limited to:
 - a. All rigid insulation, cover board, crickets, slope system, and air barrier and roofing system over wood deck, walk pads. Flash/tie roofing into roof drains installed by plumbing contractor.
 - b. Cant strips and crickets at roof access hatches, equipment curbs and platforms.
2. Furnish and install all metal gutters.
3. Furnish and install all coping.
4. Furnish and install all penetration flashings, metal flashings, flexible flashings, scupper flashings, mechanical platform covers, skirt flashings, and storm collars including lead and sheet metal at roof including roof drains related and adjacent to the roofing material. Aluminum and break metal flashing at aluminum storefront doors and aluminum windows to be furnished and installed by the Glass, Glazing, and Storefronts Bid Package. All other exterior flashings are to be furnished and installed by this package.
5. Furnish and install collar flashing at HSS beams prior to lath per 2/A891.
6. Furnish and install aluminum cover plate at column penetrations per 14/A891.
7. Furnish and install prefinished color matched flashing where adjacent to metal panels.
8. Furnish and install sheet metal caps for pipe supports on roof per 2/P800.
9. Furnish and install all aluminum siding, metal soffit panels, backing, hat channel, and associated flashings complete. Coordinate with Rough Carpentry Bid Package for plywood substrate and Metal Framing Bid Package for plaster transitions and metal joist layout at soffit panels. Weather barrier at metal panels will be furnished installed by the plaster contractor. This package shall review and accept weather barrier installation at panels prior to installing your own work.

FOB Items

1. Furnish roof penetration flashings/boots from quantities provided by MEP bid packages after bid.

Installation of FOB Items Note.

1. None.

End of Bid Package

DOE-10 – Acoustical Ceilings & Wallcoverings

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00 General Conditions for Contracts on Construction Management Projects

Division 01	General Requirements
06 64 00	Fiberglass Reinforced Plastic Paneling
07 92 00	Joint Sealants (as applies to this bid package)
09 51 13	Acoustical Panel Ceilings
09 77 23	Vinyl Covered Tackboard Panels
10 26 00	Wall Protection

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish clean up daily and off-haul of all debris generated by this bid package.
2. See General Notes at beginning of summary of work specification section for other items.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.

Coordination with Other Trades

1. Review buildings prior to installation of ceilings to note conflicts with ceiling heights.
2. Coordinate locations for light wires with electrical contractor.
3. Coordinate backing locations for wall metal trim with framing and drywall contractors.

Furnish and Install Items

1. Furnish and install acoustical ceiling systems complete.
2. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
3. Furnish and install all hanger wires for light fixtures/cable trays in suspended acoustical ceilings. Electrical bid package will connect wire to their work.
4. Furnish and install ceiling tile at electrical & low voltage devices prior to dropping of tile activity. Cut holes in tiles for devices per as required.
5. Furnish and install all FRP and tackboard wall coverings.
6. Furnish and install filler strip below tackboard behind floor base.
7. Furnish and Install sealant at all locations where tackboard meets other materials.
8. Furnish and install cornerguards complete.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-11 – Painting

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 35 43	Polished Concrete Finishing
07 92 00	Joint Sealants
09 67 23	Resinous Flooring
09 91 00	Painting

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish clean up daily and off-haul of all debris generated by this bid package.
2. There will be one wash-out area for each bid package as designated by the Construction Manager. This bid package will be responsible for removal from the site of all debris and spoils generated by this bid package.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Schedule paint coats to allow for completion of work with minimal damage with final coat being installed with majority of work completed.
2. Plaster Bid package shall coordinate with Painting Bid Package the application of the cement plaster painting system and provide written report of the cement plaster pH prior to the painting application.

Furnish and Install Items

1. Furnish and install all painting as shown including but not limited to:
 - a. Exposed steel, drywall, exposed plywood, exposed wood/steel roof framing, ceiling scrim, flashings, coping, scuppers, downspouts, canopy decking, hollow metal door/frames. Refer to color schedule for all interior colors.
 - b. Mechanical, plumbing, fire sprinklers, and electrical utilities as required.
 - c. Fire department connection per I/CX2.1.
 - d. Fire resistant painted surfaces.
 - e. All gates to be painted per detail 16/A111.
2. Furnish and install sealing systems complete for the project except for concrete floor sealer.
3. Furnish and install Polished Concrete system complete. Coordinate with concrete bid package for floor flatness requirements. Provide floor protection at all polished concrete areas. This shall occur both at completion of concrete installation and immediately upon completion of polished concrete activity. Include 16 hours of maintenance time to repair any issues with floor protection. This package shall also pick up floor protection prior to polished concrete activity and at completion of

- project. Floor protection shall consist of ram board and plywood/masonite with all joints taped for a smooth finish.
4. Furnish and install finish as specified for trim, doors, and millwork.
 5. Furnish and install sealing of masonry and concrete other than slab on grade floors as specified. Floor sealer to be installed by the concrete bid package.
 6. Furnish and install all surface preparation and finish of all flashing to be painted. Verify compatibility for primer adhesion at structural steel.
 7. Apply painting coats to minimize the need for touch up. Furnish and install all touch up painting required. Touch-up door/window light stops after installation of glazing.
 8. Furnish and install floor prep for concrete cracking, filler, saw cut joints and construction joints.
 9. Furnish and install all caulking of interior/exterior Hollow Metal Frames.
 10. Furnish and install resinous flooring complete including prep. Install, maintain, and remove durable floor protection after flooring is installed until completion of project.
 11. Furnish and install Logo in polished concrete floor.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-12 – General Specialties

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
02 30 00	Subsurface Investigation
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
04 22 00	Concrete Unit Masonry
07 21 16	Blanket Insulation
07 72 33	Roof Hatch
07 84 13	Penetration Firestopping (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)
08 10 53	Door Louver and Lite Frames
08 11 13	Hollow Metal Doors and Frames
08 14 16	Flush Wood Doors
08 31 13	Access Doors and Frames
08 33 13	Coiling Counter Doors
08 71 00	Door Hardware (as applies to this bid package)
09 30 00	Tiling
09 60 01	Flooring Moisture and pH Testing
09 65 13	Resilient Base and Accessories

09 65 19	Resilient Tile Flooring
09 68 16	Carpeting
10 11 16	Markerboards
10 14 00	Signage
10 14 05	Dimensional Sign Characters
10 21 13	Toilet Compartments
10 22 38	Operable Panel Partitions
10 28 00	Toilet Accessories
10 44 15	Fire Extinguishers and Cabinets
10 75 16	Flagpoles
11 01 13	Owner-Furnished, Contractor-Installed Equipment
11 52 13	Projection Screens
32 31 13	Chain Link Fences and Gates
32 31 19	Decorative Metal Fences and Gates
32 33 13	Bicycle Racks

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by each bid package.
2. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
3. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
4. Provide all backfill of excavations to original sub-grade for work included in this bid package.
5. Provide early startup / use of equipment included in this bid package as required by the Construction Manager for construction or building systems testing of buildings prior to final acceptance, which will not initiate the warranty period until the filing notice of completion.
6. Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
7. Provide all clean up and provide off-haul of own debris from site.
8. Provide all hoisting/rigging for work in this bid package.
9. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.

2. Coordinate all work to provide access to buildings for other trades as scheduled.
3. Coordinate layout of vertical rebar in CMU wall foundations with concrete contractor.
4. Coordinate plumbing and electrical for in-wall electrical and plumbing piping in/through CMU.
5. Coordinate ceramic tile installation with mirror locations.
6. Coordinate ADA clearances for ceramic tile and toilet partitions and accessories. Also coordinate with plumbing bid package for clearances.
7. Coordinate locations of hollow metal door frames installed by this bid package relative to the location of plaster molding adjacent to the frames to insure a good fit. Provide physical layout for the plaster contractor for the plaster molding should windows not arrive prior to plaster j mold installation.
8. Coordinate all embedded fences, posts in foundations at building exterior to be installed at a later time.
9. Install and coordinate block-outs at the site fencing to facilitate installation of fine grading by Earthwork Bid Package. Complete site fencing once fine grading is complete.
10. Protect survey stakes for own work and maintain until installations are complete.
11. This contractor shall confirm and coordinate all dimensions for door frames furnished and installed by this package. Procure all related information so as not to delay installations as scheduled in the project baseline schedule.
12. Coordinate with Rough Carpentry Bid Package and/or Metal Stud Framing Bid Package for backing/blocking needed at miscellaneous specialty installations.
13. Coordinate layout of OFCI items.
14. Coordinate keyways with school district and CM.

General Furnish and Install Items

1. Furnish and install all excavations, and backfill of excavations to original subgrade for work included in this bid package.
2. Furnish and install watertight closures at all gang and individual pipe penetration through exterior walls.
3. Furnish and install all coring or place sleeves for utilities through concrete.
4. Furnish and install all rough-in for all equipment of other bid packages and OFCI items as required by the related specification sections and drawings. Connect to equipment.
5. Furnish and install all roof accessories relative to this bid package's work except flashings, to be provided by the Roofing bid packages.
6. Furnish and install roof hatches complete, including safety railing and post.
7. Furnish and install Unistrut for work included in this bid package.
8. Furnish and install drilling of steel for supports for own work.
9. Furnish and install all shims necessary for plumb installation of work included in this bid package.
10. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with respective bid packages.
11. Furnish and install all access doors necessary to provide access to work included in this bid package.
12. Furnish off-haul of all excavation spoils to point onsite as directed for work included in this bid package. Earthwork package to use spoils for completion of import materials.

- Provide spoils amount for this contract to earthwork bid package within 10 days of award of contract.
13. Furnish and install all attachment of all equipment related to this scope of work.
 14. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

General FOB Items

1. Furnish FOB hand dryers for connection by the Electrical Bid package.
2. Furnish FOB jobsite all anchor bolts that embed in concrete for installation by that packages. Provide written layout.
3. Furnish FOB all sleeves for all utilities to the concrete package for installation.
4. Furnish FOB all fence hooks and gate tracks embedded in concrete for installation by Concrete Bid Package.
5. Furnish all lead flashings, flashings, and storm collars FOB jobsite required for all roof penetrations related to this scope of work for installation by the roofer.

General Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this bid package:

1. Receive, inventory, set and anchor in final position all "Owner Furnished, Contractor Installed" equipment.

Masonry

Furnish and Install Items

1. Furnish and install CMU walls.
2. Furnish and install all masonry rebar. Tie to vertical lap bars embedded in foundations provided by concrete contractor. Coordinate rebar lap with concrete package prior to rebar placement in footing.
3. Furnish and install all expansion joints and sealant complete required by the contract documents in CMU.
4. Furnish and install all cutting of block to match grades at building/site walls.
5. Furnish and install all coring of masonry for this and other bid packages.
6. Furnish and install all special or cut block to match details at special corners and ends of walls.
7. Remove all efflorescence from masonry prior to sealing.
8. Furnish and install coring and grouting of CMU for embedded items.

Building Insulation

Furnish and Install Items

1. Furnish and install all thermal insulation, sound insulation, draft / fire stops, and blankets. Roofing bid package to provide rigid roof insulation.
2. Furnish and install insulation at roof deck voids at top of wall.
3. Furnish and install all fire rated top of wall systems complete.
4. Furnish and install exposed ceiling scrim.

Hollow Metal Doors & Frames, Access Doors, Coiling Counter Doors, & Door Hardware **Furnish and Install Items**

1. Furnish and install coiling counter doors and hardware including frames, and door guides for the coiling doors.
2. Provide additional fusible links for testing of roll up doors and smoke vents.
3. Furnish and install door stops and hold opens at concrete including coring and grouting.
4. Furnish and install all Hollow Metal doors, frames, louvers, anchor clips, and hardware and accessories complete. Provide construction cylinders for temporary use and final keying prior to occupancy by Owner. This contract is responsible for swapping out construction cores with final cores.
5. Furnish and install solid grout bottom 1'-0" minimum of exterior hollow metal frame jambs per 23/A820.
6. Allow temporary use and provide required maintenance of openings after installation of doors and windows provided by this package.

Flooring

Furnish and Install Items

1. Furnish and install floor prep for concrete cracking, saw cut joints and construction joints. Leveling to be provided by the concrete contractor as necessary for areas out of specified concrete standards tolerance. Level concrete within tolerance as required.
2. Confirm that moisture levels of slab on grade meet manufacturer's requirements prior to installation of flooring.
3. Furnish and install all flooring except concrete sealer hardener and resinous flooring. Protect after installation. Carpet to be OFCI.

Ceramic Tile

Furnish and Install Items

1. Furnish and install ceramic tile walls and floors including mortar bed. Concrete and wall substrate contractors shall provide surface flatness within their respective industry standards. Level concrete and wall substrate within tolerance as required for own installations.
2. Test moisture levels of slab on grade meet manufacturer's requirements prior to installation of flooring.
3. Furnish & install all grout and floor sealers for this scope of work.
4. Furnish and install all prep of cement board complete for tile installation.
5. Provide color matched caulk from wall tile to door frame.

Specialties

Furnish and Install Items

1. Furnish and install all roof hatches.
2. Furnish and install ceiling hatches/doors as shown on architectural sheets.
3. Furnish and install all toilet partitions and accessories. See specifications for items to be provided by Owner (OFCI).
4. Furnish and install all TV mounting brackets.
5. Furnish and install site specialties including but not limited to:
 - a. police/fire dept by-pass lock (Knox Box)
 - b. Mailbox
 - c. Flagpoles – Base to be installed by Concrete Bid Package.
6. Furnish and install fire extinguishers and extinguisher cabinets.

7. Furnish and install markerboards.
8. Furnish and install operable partitions complete. Furnish and install all lateral bracing for partition wall including angle iron. Coordinate holes in beam with Structural Steel Package during fabrication.

Signage

Furnish and Install Items

1. Furnish and install all building signage complete.
2. Furnish and install all building aluminum letters and entrance sign aluminum letters.
3. Furnish and install "This Door to Remain Unlocked When This Space is Occupied" per Remark A on A700.
4. Furnish and install Cast Metal Signage Letters per 22/A891 including continuous SS C-channel for mounting.

Fencing

Furnish and Install Items

1. Furnish and install excavations for fence posts.
2. Furnish and install all chain link and ornamental fence as shown.
3. Furnish and install complete fence/gate system as shown on sheet A261. Include excavations, tube steel structure, gate, perforated panels, hardware, etc.
4. Furnish and install all site fencing, gates, and hardware complete. Prep all gates as needed to accept required hardware.
5. Furnish and install all cane bolts including drilling holes.
6. Furnish and install all fence enclosures including chain link roofs as shown.
7. Furnish and install gates and hardware complete at trash enclosures.
8. Furnish and install backfill of fence post excavations to the required grade and off-haul spoils.
9. Confirm keyway with CUSD.

Playground Equipment

Furnish and Install Items

1. Furnish and install all playground equipment complete including excavations, foundations, sand/gravel cushion, rubber surface. Concrete under rubber surface to be provided by concrete package.

End of Bid Package

DOE-13 – Fire Sprinklers

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
07 84 13	Penetration Firestopping (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)

08 31 13	Access Doors and Frames (as applies to this bid package)
21 00 00	Fire Sprinkler Systems
23 01 00	General Mechanical Provisions (as applies to this bid package)

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
2. Provide all clean up and provide off-haul of own debris from site.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. Provide all hoisting/rigging for work in this bid package.
5. Provide early startup / use of fire sprinkler system as required by the Construction Manager for construction or building systems testing of buildings prior to final acceptance, which will not initiate the warranty period until the filing notice of completion.
6. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Coordinate all work to provide access to buildings for other trades as scheduled. Provide a breakout schedule of where and when piping operations will be performed that has been coordinated with other activities in the schedule for other trades.
3. Purging and testing of all building fire sprinkler utilities included in this bid package is the responsibility of this bid package. Coordinate with site utility contractor prior to connection.
4. Coordinate hook up of electrical and low voltage wiring with related bid package.
5. Provide location of stub for the underground contractor.
6. Provide written layout to framing contractor prior to framing for location of all backing/blocking for own installations. Any missed layout not provided to the framing contractor shall be furnished and installed by this contractor.

Furnish and Install Items

1. Install all coring or place sleeves for utilities through concrete.
2. Furnish and install building fire sprinkler system per plan for a complete system.
3. Furnish and install all signage/labelling required for this scope of work.
4. Furnish and install all exposed materials in a consistent and aesthetic manner.
5. Furnish and install all access doors necessary to provide access to work included in this bid package.

6. Furnish and install all attachment of all equipment related to this scope of work.
7. Furnish and install all hangers, supports, and bracing necessary for installation of work included in this bid package.
8. Furnish and install fire stopping related to this scope of work. Coordinate system with other MEP trades to comply with specifications.
9. Furnish and install complete fire sprinkler risers, from flange, at buildings per Detail 1/FP800. Electrical contractor to connect to electric bell and flow switch installed by this contractor.
10. Furnish and install drilling of steel or wood for supports and piping installations.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

DOE-14 - Building Plumbing

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
07 84 13	Penetration Firestopping (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)
08 31 13	Access Doors and Frames (as applies to this bid package)
11 01 13	Owner-Furnished, Contractor-Installed Equipment (as applies to this bid package)
22 00 00	General Plumbing Provisions
22 00 50	Plumbing
23 01 00	General Mechanical Provisions (as applies to this bid package)
31 22 22	Soil Materials
31 23 33	Trench Excavation and Backfill
31 50 00	Excavation Support and Protection
Geotechnical Report	

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish off-haul of all excavation spoils to point onsite as directed for work included in this bid package. Earthwork package to use spoils for completion of import materials. Provide spoils amount for this contract to Earthwork bid package within 10 days of award of contract.
2. Provide dewatering for own excavations.

3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by each bid package.
5. Provide all backfill of excavations to original subgrade for work included in this bid package.
6. Provide early startup / use of plumbing equipment as required by the Construction Manager for construction or building systems testing of buildings prior to final acceptance, which will not initiate the warranty period until the filing notice of completion.
7. Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
8. Provide all clean up and provide off hauls of own debris from site.
9. Provide all hoisting/rigging for work in this bid package.
10. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for underground and above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Provide dimensions for structural openings through building structure.
3. Coordinate all work to provide access to buildings for other trades as scheduled. Provide a breakout schedule of where and when piping operations will be performed that has been coordinated with other activities in the schedule for other trades.
4. This bid package shall make physical connections from buildings to site utilities.
5. Cleaning and purging of all building plumbing utilities included in this bid package is the responsibility of this bid package. Coordinate with site utility contractor prior to connection.
6. Clean and disinfect all building piping. Phased construction will necessitate a specific schedule of disinfection coordinated with the packages. Create disinfection plan and coordinate with site bid package to allow for complete and maintained disinfection of the entire system until acceptance by owner.
7. Coordinate routing of plumbing to miss foundations.
8. Make adjustment and coordinate with concrete contractor for flush installation of exterior boxes for cleanouts, valves, etc.
9. Provide dimensions for wall and roof openings on structural coordination drawings.
10. Coordinate installation of roof drains with roofing contractor for watertight installation.
11. Coordinate the location of depressions, block outs, slopes, and drains with the Concrete Contractor prior to pour.
12. This contractor shall provide pour watch of own installations through building concrete slabs for every scheduled S.O.G. installation by the concrete contractor. This is mandatory.

13. Protect survey stakes for own work and maintain until installations are complete.
14. Provide written layout to framing contractor prior to framing for location of all backing/blocking for own installations. Any missed layout not provided to the framing contractor shall be furnished and installed by this contractor.
15. Provide roof penetration quantities with sizes for roofing contractor.

Furnish and Install Items

1. Furnish and install street cleaning for own scope of work as required.
2. Furnish and install building plumbing systems complete, including but not limited to:
 - a. Gas piping, domestic water piping, waste/vent piping, roof drains, condensate drain piping, plumbing fixtures, plumbing equipment, plumbing accessories, etc.
3. Furnish and install physical layout for all deepened foundations at utilities prior to excavation by the concrete bid package.
4. Furnish and install all sleeves in foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related bid packages prior to excavation.
5. Furnish and install all coring or place sleeves for utilities through masonry and concrete.
6. Furnish and install all excavations and backfill of excavations to original subgrade for work included in this bid package. Certify grades have been returned to original grade when work is complete.
7. Furnish and install all concrete required for installation of thrust blocks for all work related to this bid package.
8. Furnish, install, and maintain protection of work included in this bid package from damage and intrusion of dirt and / or debris into the building piping systems for the length of the project per the SWPPP. Protection shall allow use, as directed by the Construction Manager, of the plumbing utility systems during construction for construction and testing operations without the start of the warranty period until the notice of completion for the project.
9. This bid package is to make final connections to gas shut-off valves within U.G. valve boxes located outside building footprint. Provide all necessary material to complete connections. Shut-off valves and boxes are furnished and installed by Site Utilities Bid Package. Gas Pressure Regulator assemblies are to be furnished and installed complete by this bid package. Purge all gas lines at time of final connection for each building.
10. Furnish, install, and connect all building utilities to 5' from building or noted POC unless otherwise noted in this bid package.
11. Furnish and install utilities feeding the Laboratory Fume Hood. Final connections to the equipment to be by this bid package.
12. Furnish and install roof drains with cleanout and make connection to site storm drain marked and stubbed 5' outside of building by site utility contractor. Provide stainless steel escutcheon at roof overflow daylighting at building exterior.
13. Furnish and install all flues associated with own work.
14. Furnish and install watertight closures at all gang and individual pipe penetration through exterior walls for own work.
15. Furnish and install water heater brackets and platforms complete.
16. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
17. Furnish and install all attachments of all equipment related to this scope of work.

18. Furnish and install any/all seismic bracing required for work included in this bid package.
19. Furnish and install backing for all plumbing fixtures. Steel plates only, no wood.
20. Furnish and install drilling of steel or wood for supports and piping installations.
21. Furnish and install disinfection of all building plumbing related to this bid package. Coordinate a disinfection plan with other bid packages to assure a clean system at acceptance.
22. Furnish and install all roof accessories relative to this bid package's work.
23. Furnish and install all rough-in for all equipment of other bid packages as required by the related specification sections and drawings. Connect to equipment.
24. Furnish and install all required utilities for Owner Furnished Equipment., capped and ready for connection. Connections to be made by this bid package.
25. Furnish and install all signage/labelling required for this scope of work.
26. Furnish and install all building drinking fountains and associated backing (guard rails by others).
27. Furnish and install all toilet and sink sensors and wiring complete to hook up of power. Conduit is by Electrical Bid Package.
28. Furnish and install clean outs shown on plumbing drawings.
29. Furnish and install sealant at overflow drains.
11. Furnish and install fire stopping related to this scope of work. Coordinate system with other MEP trades to comply with specifications.
30. Furnish and install all access doors necessary to provide access to work included in this bid package.
31. Furnish and install condensate drains. Connect condensate drain to unit pump provided by HVAC contractor and extend in attic to drain.
32. Furnish and install escutcheon covers, rings, etc. at all floor, wall, and ceiling penetrations for plumbing lines and /or fixtures. All floor gaps, holes around lines at penetrations shall be sealed and caulked as per health dept. requirements.
33. Furnish and install sealant and backer material, pipe jackets, escutcheons for own piping penetrations through walls.
34. Furnish and install emergency eye wash/shower.
35. Furnish and install drywell system complete per detail 12/P800
36. Provide testing of floor and roof drains at completion of project.
37. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. Furnish FOB jobsite all anchor bolts and templates that embed in concrete or masonry for installation by those packages. Provide written layout.

Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this bid package:

1. Washer and dryer OFCI.
2. Refrigerator OFCI.

End of Bid Package

DOE-15 - Mechanical

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
07 62 00	Flashing Sheet Metal and Trim (as applies to this bid package)
07 84 13	Penetration Firestopping (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)
08 31 13	Access Doors and Frames (as applies to this bid package)
23 01 00	General Mechanical Provisions
23 05 00	Common Work Results for HVAC
23 05 13	Common Motor Requirements for HVAC Equipment
23 05 29	Hangers and Supports for HVAC Piping and Equipment
23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment
23 05 53	Identification for HVAC Piping and Equipment
23 05 93	Testing, Adjusting, and Balancing for HVAC
23 07 00	HVAC Insulation
23 08 00	Commissioning of HVAC
23 31 13	Metal Ducts
23 33 00	Air Duct Accessories
23 34 23	HVAC Power Ventilators
23 37 23	HVAC Gravity Ventilators
23 74 13	Packaged Outdoor Central-Station Air Handling Units
23 81 26	Split System Air Conditioners
25 50 00	Direct Digital Control and Energy Management System

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Provide early startup and maintenance of HVAC equipment as required by the Construction Manager for acclimatization of buildings prior to final acceptance, which will not initiate the warranty period until the filing notice of completion.
2. Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
3. Provide all clean up and off-haul of own debris from site.
4. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
5. Provide all hoisting/rigging for work in this bid package.
6. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for underground and above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Provide dimensions for structural openings on framing coordination drawings.
3. Provide physical layout of systems through walls & ceilings/roof for block out by framing contractor.
4. Provide all necessary openings and/or connection points for EMS and fire alarm wiring and devices.
5. Concrete housekeeping and equipment pads will be furnished and installed by the concrete bid package. Provide dimensions for pads.
6. Provide written layout to framing contractor prior to framing for location of all backing/blocking for own installations. Any missed layout not provided to the framing contractor shall be furnished and installed by this contractor.
7. Provide crane access plan and duration of construction to stop during setting the roof top equipment.
8. Provide quantities of roof penetration jacks with sizes for roofing contractor.
9. Provide pre/post commissioning plan for review and acceptance by Owner and CM prior to initiating any commissioning activities.

Furnish and Install Items

1. Furnish and install all HVAC equipment, EMS, ductwork, duct insulation, refrigerant piping, piping, and pipe insulation, fixtures, accessories, controls, and air balance for a complete heating and air conditioning system.
2. Furnish and install all access doors necessary to provide access to work included in this bid package.
3. Furnish and install all attachment of all equipment related to this scope of work.
4. Furnish and install all hangers, supports and bracing necessary for installation of work included in this bid package.
5. Furnish and install any/all seismic bracing required for work included in this bid package.
6. Furnish and install all roof curbs with proper height and slope for the roofing system. Verify heights with roofing shop drawings prior to fabrication.
7. Furnish and install all roof accessories and/or curbs/platforms/stands/supports/steel backing/bolts/angles (pre-manufactured for all mechanical equipment provided under this bid package).
8. Furnish and install all rough-in for all equipment of other bid packages as required by the related specification sections and drawings. Connect and or stub as described.
9. Furnish and install HVAC Controls and/or EMS system complete including conduit and wiring unless specifically called for on electrical drawings.
10. Furnish and install drilling of structure for installation of own supports and piping installations.
12. Furnish and install fire stopping related to this scope of work. Coordinate system with other MEP trades to comply with specifications.
11. Furnish and install all flues associated with own work.

12. Furnish and install all signage, labelling, and lettering called for in the contract documents related to work of this bid package.
13. Provide for testing of Fire Smoke Dampers with resettable link.
14. Furnish and install stainless steel countertop and cased frame at coiling counter door per detail 15/A830.
15. Provide Fire Smoke Dampers ready for power hook up. Provide ceiling access panels for fire damper access. Provide fire rated access panels as required.
16. Furnish and install mechanical unit relays for connection by electrical contractor.
17. Furnish and install fire barrier duct wrap.
18. Furnish and install all stainless steel exhaust duct and accessories serving the Laboratory fume hood. Final connections to the equipment to be by this bid package.
19. Provide start-up and run equipment for acclimation of buildings without effecting official start date of Warranty period upon Owner acceptance of project. Protect all openings to the duct system during this time with filters at all return air openings. Provide final equipment washdown upon completion of dust-generating construction activities.
20. Provide two (2) changes of filters, at all filter locations, for construction dust during construction prior to installation of final filters.
21. Provide pre & post functional testing/commissioning of the HVAC system per specifications. Provide plan to Owner/CM for approval prior to starting any commissioning activities.
22. Provide complete air balance for the HVAC System per specifications.

FOB Items

1. Furnish all starters at HVAC units. Electrical connections shall be made by Electrical Bid Package.
2. Provide FOB jobsite all Fire Smoke Dampers ready for power hook up.
3. Provide mechanical unit relays for connection by electrical contractor.

Installation of FOB Items

1. None.

End of Bid Package

DOE-16 – Electrical & Site Electrical

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00	General Conditions for Contracts on Construction Management Projects
Division 01	General Requirements
02 30 00	Subsurface Investigation
03 15 12	Post Installed Concrete Anchors (as applies to this bid package)
07 84 13	Penetration Firestopping (as applies to this bid package)
07 92 00	Joint Sealants (as applies to this bid package)
08 31 13	Access Doors and Frames (as applies to this bid package)
11 52 16	Projector Mounts

26 00 00	Summary Electrical Work
26 01 00	General Conditions for Electrical Work
26 05 00	Basic Electrical Materials and Methods
26 05 26	Grounding
26 22 13	Dry-Type Transformers (600V and less)
26 24 13	Switchboards
26 24 16	Panelboards
26 51 13	Lighting
26 61 00	Lighting Control Systems
26 95 00	Electrical Acceptance Tests
27 00 00	Communications General
27 05 28	Communications Infrastructure System
27 10 00	Structured Cabling System
27 20 10	Uninterrupted Power Supply
27 40 40	Assistive Learning Systems
27 42 00	Classroom Audio/Visual Systems
27 53 13	Analog Synchronous Clocks
27 70 00	Intercom/Clock/Public Address System
27 80 00	Video Surveillance
28 31 00	Fire Detection and Alarm
31 22 22	Soils Materials
31 23 33	Trench, Excavation, and Backfill
31 50 00	Excavation Support and Protection
	Geotechnical Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish off-haul of all excavation spoils to point onsite as directed for work included in this bid package. Earthwork package to use spoils for completion of import materials. Provide spoils amount for this contract to Earthwork bid package within 10 days of award of contract.
2. Provide dewatering for own excavations.
3. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
4. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by each bid package.
5. Provide trenching plan and permits for excavations over 5' per OSHA requirements to the construction manager.
6. Provide use and maintenance of electrical equipment and devices as required by the construction manager for construction and testing of other equipment prior to final acceptance, which will not initiate the warranty period until filing of notice of completion.
7. Provide all clean up and off-haul of own debris from site.
8. Provide all hoisting/rigging for work in this bid package.

9. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for underground and above ceiling work for work related to this bid package. Coordinate all drawings with the drawings of this bid package. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. Provide shop drawings for equipment layout in electrical yards and electrical rooms to confirm that dimensions are adequate prior to rough in and pouring of foundations.
3. Light pole bases shall be excavated and installed by the Concrete Bid Package. Coordinate the installation and requirements of light pole bases with the Concrete Bid Package.
4. Coordinate with PG&E, Comcast, and AT&T for service requirements to the site.
5. Coordinate all work to provide access to buildings for other trades as scheduled. Provide an underground utility schedule of where and when piping operations will be performed. Coordinate with other activities in the schedule for other trades and confirm the schedule meets the CMBS dates.
6. At conflicts with site utilities, electrical duct banks/conduits are to have the lower elevations.
7. Coordinate location of fire alarm monitoring devices for PIV/tamper switches/flow switches with site utility drawings.
8. Provide physical layout of systems through walls & ceilings/roof for block out by framing contractor Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
9. Quantify, coordinate, and provide final connections of starters for HVAC units as provided by the Mechanical Bid Package.
10. Furnish and install physical layout for all deepened foundations at utilities prior to excavation.
11. Provide layout of all coring to be installed after the fact for installation of reinforcing by the masonry.
12. Coordinate with all underground utilities prior to excavation.
13. This contractor shall provide pour watch of own installations through building concrete slabs for every scheduled S.O.G. installation by the concrete contractor. This is mandatory.
14. Coordinate power and fire alarm connection with roll-up doors.
15. Protect survey stakes for own work and maintain until installations are complete.
16. Provide written layout to framing contractor prior to framing for location of all backing/blocking for own installations. Any missed layout not provided to the framing contractor shall be furnished and installed by this contractor.
17. Verify voltage for all equipment by others from product submittals prior to installation.
18. Coordinate UG utilities out of building's angle of repose.
19. Coordinate TV monitor outlet locations with school district.

Furnish and Install Items

1. Furnish and install all building and site electrical complete.

2. Furnish and install street cleaning for own scope of work as required by municipal ordinance.
3. Furnish and install firestopping for own work. Coordinate system with other MEP trades to comply with specifications.
4. Furnish and install sheet caulk at outlet boxes at sound and fire rated assemblies.
5. Furnish and install all building and site electrical complete.
6. Furnish and install all low voltage systems complete except for the EMS system.
7. Furnish and install pull strings / rope in all empty or future conduits.
8. Furnish and install all concrete required for installation of manholes, vaults, boxes, underground structures, work related to this bid package.
9. Furnish and install all colored concrete cap over all required duct banks.
10. Furnish and install all coring and reinforcing for utilities through concrete and masonry.
11. Any holes through materials to allow installation of utilities not called for in the contract documents shall be installed and reinforced by this bid package.
12. Furnish and install all sleeves for work passing through masonry and concrete work. Coordinate with Respective bid packages.
13. Furnish and install all sleeves in foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related bid packages prior to excavation.
14. Furnish and install all access doors necessary to provide access to work included in this bid package.
15. Furnish and install all attachment of all equipment related to this scope of work.
16. Provide all backfill of excavations to original subgrade for work included in this bid package.
17. Furnish and install all conduit & sleeves for future low voltage and telecommunications wiring. Install fire stopping as required.
18. Furnish and install disconnects and associated supports.
19. Furnish and install project mounts.
20. Furnish and install all necessary supports required for pendent light fixtures.
21. Furnish and install all supports and bracing required for electrical work except for hanger wires in suspended acoustical ceilings.
22. Furnish and install watertight closures at all gang and individual pipe penetration through exterior walls.
23. Furnish and install all signage and lettering called for in the contract documents related to work of this bid package.
24. Furnish and install pipe bollards/sleeves/foundations as shown at new electrical equipment.
25. Furnish and install utilities feeding the Laboratory Fume Hood. Final connections to the equipment to be by this bid package.
26. Furnish and install all required utilities for Owner Furnished Equipment, hook up as required.
27. Furnish and install all rough-in for all equipment of other bid packages as required by the related specification sections and drawings. Connect and or stub as described.
28. Furnish and install all roof accessories relative to this bid package's work.
29. Furnish and install drilling of structure for supports and piping installations.
30. Furnish and install all roof supports for electrical.
31. Furnish and install all speakers, speaker cloth, associated brackets.
32. Furnish and install all floor boxes solid for install of slab on grade.

33. Furnish and install all interior and exterior floor boxes.
34. Furnish, install, and remove all temp power per Temporary Power Plan. Maintain for duration of project and remove at completion of project. At project startup, provide the following:
 - a. Connect to existing 400A panel. Run (4) 2" conduits from existing panel to (2) locations at each building for a total of (4) locations. Provide all necessary wiring and components for hook up. Provide (1) temporary power box at each conduit location for a total of (4) temporary power boxes.
 - b. Temporary power boxes shall remain in service until completion of project or until permanent power is available at the buildings.
 - c. Provide inspection, testing and maintenance of temporary power system per OSHA regulations. Provide documented inspection report to CM. Secure temporary power boxes from the end of each workday to the start of the next.
35. Furnish, install, and connect power to all equipment including switches and controls.
36. Furnish and install power to landscape controllers.
37. Furnish and install holes in door and window frames for own work.
38. Furnish, install, and maintain traffic control for work included in this bid package.
39. Furnish and install wireless access point data jacks.
40. Furnish and install all components and wiring required to hook-up fire suppression system to fire alarm, exhaust blower, & make-up air system for interlock and shut down.
41. Furnish and install all projectors in ceilings.
42. Furnish and install power and Fire Alarm to fire/smoke damper electric actuators. Provide area smoke detector to control dampers.
43. Raise all existing utility boxes/structures to grade in landscape and concrete paving areas.
44. Rough-in for security and access per Note A requirements on E410 and E420.
45. Pothole existing electrical and communication utilities, mark and maintain markings throughout site.
46. Furnish and install alarm conduit, pull string, and box rough in.
47. Furnish and install Unistrut for paint at exposed ceilings prior to fixture installation.
48. Provide commissioning for electrical work.
49. Furnish and install rough in for future EV charge stations.
50. Furnish and install disconnects not provided on factory equipment installed by other bid packages.
51. Furnish, install, and maintain egress lighting for both buildings. Lighting shall consist of strand lights down all main corridors. Lighting shall be installed at the completion of framing until all permanent lights are installed and operating.
52. Connect "hanger wires" provided by the Acoustical Bid Package to light fixtures.
53. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. Furnish FOB jobsite all bolt templates for use by the concrete bid package and masonry bid package.
2. Furnish FOB jobsite all anchor bolts and templates for light poles and equipment.
3. Furnish FOB all sleeves for all utilities to the concrete package for installation.

Installation of FOB Items

Note. Unload, inventory, store and notify of deficiencies for all items delivered to the jobsite FOB, to be installed by this bid package:

1. Install all switches for equipment provided by others.
2. Install hand dryers provided FOB by General Specialties Package.
3. Connect relay module to mechanical unit shutdown. Relays to be provided by HVAC contractor.
4. Connect to electric fire sprinkler bell and flow switch installed by fire protection contractor at building fire risers.

End of Bid Package

DOE-17 – Landscape and Irrigation

Furnish and install all work specifically required throughout the project documents to complete the work of this bid package that specifically includes, but is not limited to the following:

Specification Sections

Division 00 General Conditions for Contracts on Construction Management Projects
Division 01 General Requirements
02 30 00 Subsurface Investigation
31 22 22 Soils Materials
31 23 33 Trench, Excavation, and Backfill
31 50 00 Excavation Support and Protection
32 84 00 Landscape Irrigation System
32 90 00 Landscape Construction
Geotechnical Report

Refer to additional related specifications sections for work specifically included in this bid package noted below.

General Items

1. Furnish and install all sleeves in masonry, concrete, and foundations prior to the installation of concrete and reinforcing steel. Coordinate location with other related bid packages prior to excavation.
2. Furnish off-haul of all excavation spoils to point onsite as directed for work included in this bid package.
3. There will be one wash-out area for each bid package as designated by the Construction Manager. Each bid package will be responsible for removal from the site of all debris and spoils generated by this bid package.
4. Construction water will be available at the Fire Hydrant located on Herndon Ave (Contractor to verify). Each Bid Package will be responsible for providing their own water meter for water consumption.
5. Owner shall furnish metered water at hydrant located on-site for construction water for this and other prime contractors.
6. See General Notes at beginning of summary of work specification section for other items.

Coordination with Other Trades

1. Provide coordination drawings for underground work related to this bid package. Coordinate all drawings with the drawings of other bid packages. Note conflicts and provide potential solutions to the architect for review. Coordination must occur prior to excavation and/or installation of the work. Attend all coordination meetings required to coordinate all underground and above ceiling work.
2. At conflicts with electrical duct banks, electrical duct banks are to have the lower elevations.
3. Coordinate location of site utility installations with location of building structure foundations to maintain clearance outside the foundation angle of repose.
4. Coordinate with all underground utilities prior to excavation.
5. Receive grades at $\pm .10'$. Cut all additional swales required to provide proper drainage.
6. Protect survey stakes for own work and maintain until installations are complete.

Furnish and Install Items

1. Furnish and install all irrigation and landscaping complete including but not limited to:
 - a. Decomposed granite, ground cover, planting, turf, trees, soil amendments, boulders, cobble stone, and mulch.
 - b. Irrigation system, booster pump, and controls. Connection to irrigation service to be at backflow per landscape drawings. This package to provide all necessary material/fittings to make final connection.
2. Provide final connection to backflow prevention device provided by the site utilities bid package.
3. Furnish and install all irrigation sleeves on separate move-ins.
4. Furnish and install all christy boxes as required for own work.
5. Furnish and install all concrete, concrete collars, and pads for own work except for mow strips.
6. Furnish and install all thrust blocks for own work.
7. Furnish and install all bricks and washed gravel at all boxes as shown.
8. Furnish and install swales beyond that shown on civil drawings for proper drainage.
9. Provide water test of turf and planter areas prior to planting to confirm proper drainage.
10. Maintain project to be weed free until completion.
11. Provide caps/impalement protection for any impalement hazards such as concrete stakes, rebar, bolts, conduit, pipe, etc. Protection shall remain in place until impalement hazard is eliminated.

FOB Items

1. None.

Installation of FOB Items

1. None.

End of Bid Package

1.03 WORK UNDER OTHER CONTRACTS:

1. General Requirements:
 - a. Work under separate contracts will occur throughout the duration of the project. The work being installed under separate contracts will occur around adjacent to the Contract project site including offsite work.
 - b. Contractor shall be responsible for coordinating access to and from the site throughout the duration of the project. Access points to and from the site may vary, based upon timing and duration of separate contracts.
 - c. Contractor shall cooperate and coordinate all work under this Contract with all work under separate contracts.
 - d. Should the Contractor damage and/or otherwise alter work installed under separate contracts, Contractor responsible for the correction repair of work installed under separate contracts.
 - e. Prior to the installation of the Work, coordinate the work installed or to be installed by separate contracts relative to own work.
2. Separate Contracts by Owner:
 - a. Construction Bid Packages, as defined above in Construction Bid Packages.
 - b. Construction Bid Packages as defined in future phases of work below in projected project phasing.
 - c. Owner Furnished Items, as defined in Specification Section – OWNER FURNISHED ITEMS.
3. Separate Contracts by Others:
 - a. Adjacent Properties:
4. Phasing:
5. Phasing is projected to be as shown on the Construction manager's Bid Schedule. However, the owner reserves the right to revise start times pending the review and award of bids.

1.04 CONTRACTOR'S DUTIES:

1. Except as specifically noted, provide, and pay for:
 - a. Labor, material, and equipment.
 - b. Tools, construction equipment and machinery.
 - c. Other facilities and services necessary for proper execution and completion of Work.
 - d. Water: See Specification Section – TEMPORARY FACILITIES AND CONTROLS.
2. Pay legally required sales, consumer and use taxes.
3. Secure and pay for all site specific, as necessary for proper execution and completion of Work, and as applicable at time of receipt of bids.
 - a. Licenses.
 - b. Permits and Fees.
 - c. Governmental Fees.

- d. Royalties.
4. Give required notices.
5. Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on performance of Work.
 - a. The Contractor shall certify in writing that no materials containing Asbestos are incorporated in the work, in accordance with the Asbestos Hazard Emergency Regulations Act.
6. Promptly submit written notice to Construction Manager of observed variance of Contract Documents from legal requirements.
 - a. Appropriate modifications to Contract Documents will adjust necessary changes.
 - b. Assume responsibility for work known to be contrary to such requirements and without written notice to Architect of observed variance.
7. Enforce strict discipline and good order among employees. Do not employ on Work:
 - a. Unfit persons.
 - b. Persons not skilled in assigned task.

1.05 CONTRACTOR USE OF PREMISES:

1. Confine operations at sites to areas permitted by:
 - a. Laws.
 - b. Ordinances.
 - c. Permits.
 - d. Contract Documents.
2. Do not unreasonably encumber site with materials or equipment.
3. Do not load structure with weight that will endanger structure.
4. Assume full responsibility for protection and safekeeping of Contractor's and Owner's material stored on premises and keep the site and building secure at all times.
5. Obtain and pay for use of additional storage or Work areas needed for operations.
6. Limit use of site for Work and storage.
7. Prime Contractors to notify CM of all deliveries 48 hours prior.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

ID	Task Name	Duration	Start	Half 1, 2024							Half 2, 2024							Half 1, 2025			
				N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	
0	CUSD DO EXPANSION BID SCHEDULE10082023	321 days?	Fri 12/1/23																		
1	NTP	0 days	Fri 12/1/23																		
2	Procurement																				
3	Procure Electrical Switchgear	255 days	Fri 12/1/23																		
4	Procure Mechanical Equipment	200 days	Fri 12/1/23																		
5	Procure Irrigation booster	160 days?	Fri 12/1/23																		
6																					
7	Mobilize / Site Work																				
8	USA Site / Utility Locate	1 day	Fri 12/1/23																		
9	Pot Hole (E) Utilities	3 days	Mon 12/4/23																		
10	Clear & Grub Demo	5 days	Thu 12/7/23																		
11	Grade / Base Const Yard / Temp Roads	3 days	Thu 12/14/23																		
12	Set Construction Trailer	1 day	Tue 12/19/23																		
13	Set Temp Power / Generator	1 day	Tue 12/19/23																		
14	Temp Water @ Hydrant	1 day	Tue 12/19/23																		
15	Stake Earthwork / Retention Basins	1 day	Wed 12/20/23																		
16	Site Grade / Dig Retention Basins	10 days	Thu 12/21/23																		
17	Stake Building Pads / A & B	1 day	Thu 12/21/23																		
18	Over Ex / Backfill Building Pads A & B	7 days	Fri 12/22/23																		
19																					
20	Site Wet Utilities	42 days	Thu 1/4/24																		
21	Stake Sewer	1 day	Thu 1/4/24																		
22	Install Site Sewer / POC onsite	5 days	Fri 1/5/24																		
23	Stake Storm Drain	1 day	Fri 1/12/24																		
24	Install Site Storm Drain / Manhole / DI	10 days	Mon 1/15/24																		
25	Stake Fire Main / Hydrant	1 day	Mon 1/29/24																		
26	Install Fire Main / POC onsite / Fire Hydrant	10 days	Tue 1/30/24																		
27	Install PIV / CV / FDC	3 days	Tue 1/30/24																		
28	Stake Domestic Water	1 day	Tue 2/13/24																		

Project: CUSD DO EXPANSION
Date: Mon 10/9/23

Task Summary Project Summary

