

**SECTION 31 0000
SITE WORK - SCOPE OF WORK
BID PACKAGE 1A
BID CATEGORY – SITEWORK**

PART 1 GENERAL

1.01 THE WORK OF THIS BID CATEGORY INCLUDES BUT IS NOT LIMITED TO PROVIDING ALL SUPERVISION, LABOR, EQUIPMENT, MATERIALS, TAXES, BONDS, INSURANCE, SCAFFOLDING, HOISTING AND INCIDENTALS TO COMPLETE THE WORK PER ALL CONTRACT DOCUMENTS FOR THE OCC BP-1A AS DEFINED BY THE BID PACKAGE NO. 1A, BID SCOPE DOCUMENT INCLUDING ITS SUPPLEMENTARY DOCUMENTS AND IN ACCORDANCE WITH ANY APPLICABLE CODES. ALL WORK IS TO BE PERFORMED AS SHOWN ON THE PLANS AND AS SPECIFIED IN THE FOLLOWING TECHNICAL SPECIFICATION SECTIONS:

DIVISION 00 – PROJECT BIDDING REQUIREMENTS - Complete

DIVISION 01 - GENERAL REQUIREMENTS - Complete

DIVISION 02 – EXISTING CONDITIONS - Complete

<u>Section</u>	<u>Name</u>
02 4113.23	Utility Removal
02 4119.13	Miscellaneous Site Demolition

DIVISION 02 – EXISTING CONDITIONS - Complete

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

<u>Section</u>	<u>Name</u>
07 9200	Joint Sealants – As Applicable

DIVISION 31 – EARTHWORK – Complete

DIVISION 32 – EXTERIOR IMPROVEMENTS

<u>Section</u>	<u>Name</u>
32 0519	Geogrids
32 1100	Base Courses
32 1200	Flexible Paving
32 1300	Rigid Paving
32 1600	Curbs, Gutters, Sidewalks, and Driveways
32 1723	Pavement Markings

DIVISION 33 – UTILITIES – Complete

<u>Section</u>	<u>Name</u>
33 1400	Water Utility Transmission and Distribution

33 3100	Sanitary Sewerage Piping
33 4100	Subdrainage

IN ADDITION TO THE ABOVE, THIS BID CATEGORY INCLUDES BUT IS NOT LIMITED TO THE BIDDING DOCUMENTS, THE BIDDING AND CONTRACT REQUIREMENTS AND DIVISION 1 GENERAL REQUIREMENTS OF THE BARTON MALOW BUILDERS PROJECT MANUAL AND VARIOUS OTHER DOCUMENTS AND TECHNICAL SPECIFICATIONS INTERFACING WITH THIS WORK PROVIDED BY THE OWNER, ARCHITECT AND/OR ENGINEERS. THE BIDDER IS ADVISED TO REVIEW THE WORK DESCRIPTIONS OF THE OTHER CATEGORIES SO AS NOT TO MISUNDERSTAND SCOPE RESPONSIBILITIES.

1.02 PART 2 PRODUCTS – NOT USED

1.03 PART 3 EXECUTION

THE SCOPE OF WORK WILL INCLUDED AND IS NOT LIMITED TO THE FOLLOWING ITEMS:

- A. Performance of the Work shall be in accordance with all Division 01 – General Requirements.
- B. Refer to the Project Manual for additional bidding and project general requirements and conditions.
- C. In addition to the requirements set forth in Division 01 – General Requirements, the Work shall include the following:
 - 1. Additional Meetings & Quality Control Requirements:
 - a. Additional Photographic documentation, etc
 - b. As-builts
- D. **Submittals/Close Out:**
 - 1. Submit all start-up documents, and product submittals on materials & products within two (2) weeks after Notice to Proceed (NTP).
 - 2. Submit all shop drawings in accordance with the contract documents and all code requirements within four (4) weeks after Notice to Proceed (NTP).
 - 3. Contractor is to submit a long lead item log to Barton Malow Builders for materials and equipment with lead times of 6 weeks or more. The long lead item log shall include submitted date, submittal approval date, lead time, order date, & approximate delivery date. Contractor shall update and submit weekly to Barton Malow Builders.
 - 4. All equipment, products, & materials that are installed without submittal approval and not acceptable by the Architect/Engineer and Owner will be removed at the installing Contractors cost. Contractor will be held responsible for all back charges caused by the project delay to the Owner and Trades working onsite due to no specified material/equipment install and/or lack of or late submittal approvals.
 - 5. Provide shop drawings for reinforcing steel submittals.
 - 6. Provide pour/construction joint schedule and drawing indicating location of pour breaks, proposed joints for concrete slabs, curbs, and apron locations to be reviewed by Architect/Engineer.
 - 7. Contractor shall include all cost necessary for as-built, asset sheet data spreadsheet, closeout documents (including O&M manuals, valve charts, guarantees or warranties on equipment and/or materials, testing and system check-out or approval, and Owner's training as required) per the Contract Documents.
 - 8. Contractor to provide additional manpower dedicated to Barton Malow Builders to complete Barton Malow Builders punch list work for a minimum of ten (10) working days prior to the listed Architect/Engineer project punch list in the project schedule. This manpower will be under the direction of the Barton Malow Builders Superintendent to complete punch list work of their bid category and will report directly to the Barton Malow

Builders each day. Failure to provide required manpower may result in a delay in receiving the Contractor's progress payment from Barton Malow Builders.

9. Architect/Engineer's punch list will not start until all work has been completed.
10. Contractor may not drop retainage to 5% until work of this bid category is substantially complete according to the contract documents. In addition, all warranties, o/m manuals, testing, commissioning, training, extra materials, and punch list items have been completed, turned over, accepted, and documented. Contractors must also have up to date partial and final waivers from all Contractors, suppliers, and other Subordinate Parties including a AIA G707a Consent of Surety to partial reduction in retainage form signed and sealed by the Surety.
11. To bill out the remainder of retainage (from 5% to 0%), the Contractor must set up a meeting with Barton Malow Builders to go over and/or collect the remaining closeout items for final payment as specified in the project manual and submit a AIA G707 Consent of Surety for final payment form signed and sealed by the Surety.

E. General Scope:

1. Contractor is to incorporate all project bidding documents into their subordinate party agreements.
2. All bidders are required to review the General Conditions of the Contract located in the project manual.
3. Contractor is to be licensed to perform work in the State of Michigan. This includes all Contractors and 2nd or 3rd (etc.) tiered Contractors.
4. Contractor shall maintain on site, a copy of all applicable code books specifically pertaining to this scope of work. These code books are to follow the city, state, and all other authorities having jurisdiction per the specific year each authority has designated for this particular project. This Contractor is responsible for all research and compliance with all applicable regulations.
5. This Contractor is responsible to coordinate with Barton Malow Builders to schedule inspections with the Local Governing Agency and/or the State of Michigan as well as the testing agency. Inspection results and records will be kept in the Barton Malow Builders jobsite office. During all inspections each Contractor is to have a Foreman/Superintendent on site.
6. Contractor must verify that work installed by others, complies in its entirety with the contract documents prior to commencing their work, which ties in, overlays and/or follows the installed work. Any non-conforming work shall be identified in writing to Barton Malow Builders immediately.
7. Anyone listed on the National Sex Offender List is not allowed to be a part of this project and anyone who is convicted of a listed offense will be immediately dismissed from project. Provide photo identification upon arriving to the site and badges are to be worn by Contractor's field personnel at all times.
8. Contractor shall have their Superintendent/Foreperson attend a daily coordination meeting every morning Participation is mandatory.
9. Project daily working hours are Monday – Friday, Site Opens @ 7:00am and closes at 3:30pm. There will be a 5-day minimum work week. Should scheduled workdays or production be lost due to inclement weather or this Contractor's delays, overtime during the work week and weekends will be required to maintain the project schedule at this Contractor's expense. Any work performed outside normal working hours requires approval from Barton Malow Builders.
10. Contractor is only to take direction from Barton Malow Builders.
11. Review all specifications and project drawings, drawing notes, schedules, and schedule notes for areas requiring work described by this bid category and coordinate work with the respective contractors, include all costs in base bid.
12. Include all manpower, overtime, composite crews and mobilizations in base bid to complete work per the project schedule. All mobilizations required to complete this Scope of Work have been included in the base contract price, unless specifically addressed

otherwise in this Contract Agreement. It is understood and agreed that this work may not be performed in a continuous operation and during normal business hours. This contractor has included the cost of the multiple mobilizations/remobilizations and cost to work during non-normal business hours.

13. If Contractor is behind schedule and is notified by Barton Malow Builders, the Contractor shall be required to accelerate the work at its own expense. The Contractor shall employ such means as overtime work, multiple work shifts, and additional equipment, and shall continue to do so until the progress of the work, in the opinion of Barton Malow Builders, is in conformance with the master project construction schedule.
14. Provide and install all materials per the construction documents. Bid proposals must be per plan and specs. Bids not conforming to plans and specifications will be rejected. Substitutions must be pre-approved in writing prior to bids or be submitted as voluntary alternates on the bid form.
15. Contractor must include costs and utilize Autodesk Build and Textura for this project. Information and cost for Textura can be found in section 012000-Price and Payment Procedures and AutoDesk Build in section 013000-Administrative Requirements.
16. All contractors are to field verify all existing conditions prior to submitting a bid. Submitting a bid is acceptance of all field conditions. Do NOT scale the drawings.
17. If there are discrepancies between any of the project drawings, project schedules, project notes/keynotes, specifications, work scopes, or project manual, the Contractor shall include the most stringent (expensive) cost in base bid.
18. This project surrounded by Oakland Community College staff and students. Contractor is to take proper measures to ensure minimal disruptions to the roads and sidewalks around the project. Contractor is responsible for proper barricading and signage if his work activity interrupts the normal flow of operations around the facility. All Contractor employees and subordinate parties are to conduct themselves in a manner not to offend nor interfere with the staff, students, or any other public person. Barton Malow Builders and Oakland Community College Code of Conduct includes immediate termination for foul language/derogatory conversation. Those who are not in compliance will be asked to leave the project and not return.
19. Provide all temporary protection for work of this bid category. Removal of this protective material at the conclusion of the project is this contractor's responsibility.
20. Minimize disturbances to landscape areas. Excessive or malicious (as deemed by) Barton Malow Builders landscape disturbance will be the responsibility of this contractor to restore at own expense.
21. Protect equipment and finish items to remain during construction including roof, ceilings, walls, flooring, and landscaping during work of this bid category. In addition, all work being performed through ceilings, be it grid, ceiling pads, drywall or plaster, etc. must be protected from damage during work of this bid category. Correction of damage due to lack of adequate protection will be the responsibility of this contractor.
22. Deliveries must occur after 7am and prior to 2pm and not between noon and 1pm, unless scheduled with a Barton Malow Builders Superintendent or risk having the delivery turned away. Unloading, hoisting, transport of materials out of truck to staging location, and delivery acceptance is by the Contractor who is responsible for the material.
23. Contractor is responsible for storage of all materials. Deliver materials to the site as needed. Storage in the building will be limited. Materials in building must be on pallets or material/pipe carts.
24. Stocking of material on floors will be limited to a three (3) day maximum in the area of work, if approved by Barton Malow Builders Superintendent. No other material storage will be allowed in the building.
25. All materials used are to be new, unused and undamaged. Any damaged or questionable material is to be removed and replaced at no cost to the Owner or Barton Malow Builders.
26. Include all rigging and hoisting to deliver, install, and remove materials to / from all floor levels complete.

27. All crane and boom truck lifts must be properly barricaded to keep public at a safe distance. Provide ground spotters and barricading to keep public out of the swing radius of the crane or boom truck.
28. This contractor is responsible for all lifts and scaffolding, if required, for work of this bid category. Coordinate use of your lifts and scaffolding with other trades.
29. Scaffolding and staging as required. Engineered installation drawings, as required.
30. Include field layout for work of this bid category, also included is field time for this contract to survey existing conditions prior to beginning each phase of work. Any discrepancies between existing conditions and the contract drawings are to be reported to Barton Malow Builders immediately.
31. Before ground is broken, contractor is required to GPRS the whole site.
32. Coordination drawing meetings will be scheduled. Contractor understands that Barton Malow Builders is not issuing change orders for items not coordinated with other trades. Contractor also understands any conflicts of existing structure with their new work must be brought to Barton Malow Builders and Architect/Engineer attention in advance of start of work.
33. Contractor shall have no claims for additional cost because Contractor has failed to install work in proper sequence and not in accordance with Coordination drawings. Likewise, any cost for removal of materials or damage caused by Contractors who have failed to perform their Work in the proper sequence will be borne by that Contractor.
34. Participation in coordination meeting/s, weekly progress meetings, and drawings process is mandatory. Representative must be able to make all decisions for their Company and Contractors.
35. Contractor to have one (1) full time on-site superintendent, for the duration of the project. The assigned personnel will be responsible to manage the "entire" scope of work including their Subcontractors/Suppliers and will be the single point of contact for this scope of work. Contractor will be responsible to complete the daily report & JHA form each day including for their Subcontractors regardless if the Contractor has self-perform crews on site or not. Representative must be able to make all field & financial decisions. If full time supervision is not onsite by the Contractor, their Subcontractors will be told to leave the site until the next calendar working day. Contractor will be held responsible for delays and back charged due to lack of project supervision.
36. Contractor is to provide site Supervision and Foreman an Apple iPad with unlimited data/cellular plan service. It is required that Contractor download BluebeamRevu and Autodesk Build via the app store on each device. Contractor may access Owner guest Wi-Fi network if available.
37. Contractor must complete and submit electronic daily reports and pre-task plans via Autodesk Build to Barton Malow Builders on a daily basis. These reports must show total number of manpower, total number of hours, and each day's specific activities. If this is not done, Barton Malow Builders reserves the right to withhold this Contractor's monthly payments until satisfied with this Contractor's response.
38. Items shown to be turned over on the project documents and for closeout attic stock to Owner must be accompanied by a transmittal and copied with signature of receipt to Barton Malow Builders. If a transmittal is not provided and Owner's items are missing, it is this contractor's responsibility to purchase and replace with new materials.
39. Contractor is responsible for the quality control for work of this bid category (including for their subordinate parties). Contractor is to strictly observe tolerances and to maintain strict quality control throughout the execution of his work. All work is to be checked for compliance at each stage of completion per applicable codes, project drawings, specifications, and manufactures shop drawings/written instructions. Any work that is not within specified tolerances is to be removed and replaced.
40. Provide Ground Penetrating Radar (GPR) to locate and mark existing gas, water, electrical site utilities, conduits, fiber, and mechanical piping prior to proceeding with any demo or excavation work

- a. Locate all underground utilities (public and private) prior to any demo or excavations. Note that Miss Dig will not locate private utilities on the Owner's property. It is the responsibility of this contractor to hire an outside firm and locate private utilities.
 - 1) Damage to existing utilities, public or private, including but not limited to gas, water, electric, mechanical, communication, and irrigation lines caused by work of this bid category will be the responsibility of this contractor. Contractor will be responsible for all fees to restore the utilities and temporary measures needed until repairs are made.
 - (a) Contractor will be responsible for all fees to restore the utilities and temporary measures needed until repairs are made.
 - (b) Contractor will also be charged a minimum of \$1,500 for each occurrence for Barton Malow administrative costs.
 - (c) Contractor will be responsible for all Owner personnel, administrative costs, and damages for each occurrence.
41. Ticket work is to be signed by Barton Malow Builders at the end of each workday. Tickets not reviewed or signed by the Barton Malow Builders Superintendent will not be accepted or processed. Pricing is to have detailed explanations of work performed. Barton Malow Builders directed ticket work shall NOT include foreman time, work/service truck, cartage, or overhead and profit mark-up. Tickets shall include only approved labor and materials used. Signature from Barton Malow Builders Superintendent does not necessarily equal additional funds. Barton Malow Builders Project Manager will decide if ticket work is added scope to the contract.
42. All change pricing is to be submitted within ten (10) days from receipt of the change vehicle, unless otherwise agreed by Barton Malow Builders or Owner. All change order pricing is to include a detailed breakdown of costs – Material, Labor, Equipment, etc. along with any signed work orders. No lump sum pricing allowed. Change order pricing will not be accepted without a detailed breakdown. Failure to submit change order pricing within ten (10) days will result in a \$0 change order.
43. Provide all cutting/patching, coring, patching of penetrations, and block-outs for work of this bid category. This is to include but not limited to cutting and patching of all openings in deck (concrete or metal) if required. Patch walls where adjacent existing walls were removed. Patch and repair work is to be done professionally by trained, skilled craftsmen.
44. Provide and install temporary protection for all excavations, floor, or roof openings created by work of this bid category. Temp protection shall be installed per OSHA standards with robust, securely fixed and clearly marked (e.g. 'Hole below - do not remove') covers to prevent the fall of materials or persons through them. Covers should be constructed to be removable sections and that they do not present a tripping hazard.
45. Contractor is responsible for all dewatering and snow/ice removal necessary to complete this Scope of Work.
46. Cleanup is to be performed continuously as work is progressing. This means cleaning up each and every hour. This includes the removal of debris, sweeping (Contractor to provide sweeping compound), wiping down of all finished surfaces, and the proper storage of unused equipment and materials. Cleanup not performed by the Contractor will be completed by a third party (chosen by Barton Malow Builders) and back charged accordingly. Written warnings will not be issued.
47. Contractor shall participate in the Composite Cleanup Crew as described in the project manual. These requirements are in addition to normal daily cleaning responsibilities and costs for this are included in the contract price.
48. Include all cost in base bid to comply with the latest Federal mandate, State of Michigan Executive Order, OSHA requirements, Local Jurisdiction Requirements, Owners Requirements, testing, PPE, and all other requirements for your workers and subordinate parties. In addition, each worker onsite is required to sign in each day prior to work using the Barton Malow QR Reader Questionnaire on a smart phone or tablet.
49. Contractor to install and maintain a gravel approach to enter the site, including rumble strips.

50. Contractor is responsible for balancing/grading site
51. Contractor is responsible for all retention ponds/site work associated with bid documents.
52. Contractor is responsible for all landscape berms as shown on drawings
53. Contractor is responsible for embedment's, baseplates, ect. Provided by other trades as necessary.

F. Specific Scope:

1. This contractor will be responsible for all work shown on the drawings related to this scope and detailed in the specifications including but not limited to: silt fencing where needed, site demolition, site clearing/grubbing/tree removal, rough and finish grading, aggregate base placement, all concrete work, asphalt pavement, pavement markings, topsoil, seeding, utility work, filter fabric, striping/painting, parking lot signage.
2. This category of work shall be an all-inclusive Contractor and will be responsible to furnish and coordinate all his subs and suppliers.
3. This contractor is responsible for supplying their own surveyor to complete this scope of work.
4. Include multiple mobilizations according to site phasing plan.
5. This contractor is responsible for all sealcoating and restriping as called for on the drawings.
6. Contractor is responsible for all work complete shown on Civil drawings including all demolition, grading, paving construction, utility, & soil erosion notes in accordance with drawings and specifications.
7. This contractor is responsible for all work associated with the installation of the stormwater management pond.
8. Contractor is to provide and install all signage as noted on the drawings.
9. Provide all earthmoving, excavation, filling, back filling, compaction, sheeting, shoring, bracing, grading and site balancing required for completion of this project.
10. Provide, maintain, and remove all soil erosion measures complete in accordance with the project drawings and specifications
11. This contractor is to remove and legally dispose of all materials removed from site not shown to remain. Provide own dumpsters if required.
12. Contractor is responsible for all silt bags in drains and up keep for each location for use as Barton Malow sees fit. (at least three bags per cover)
13. Provide weekly inspection reports for SESC as well as all other environmental paperwork to Barton Malow.
 - a. Provide weekly inspections of SESC measures by a certified storm water operator for the duration that SESC measures are in place.
 - i. Provide inspections of SESC measures by a certified storm water operator after each rain event.
14. Contractor MUST work with Owner's third party testing company.
15. Obtain and pay for all necessary permits to complete this work.
16. Contractor is responsible for contracting vac truck to clean out utility structures upon final completion of the job
1. Temporary Measures:
 - a. For any permanent paving that will be used for temporary work during construction, include extended warranties to cover the time the equipment is in use prior to Substantial Completion.
 - b. Provide, maintain, and remove temporary paving systems upon completion and activation for use of the permanent systems
 - c. Protect all materials from damage prior to installation.
 - d. Provide, install, maintain and remove after construction all silt fencing, siltsacks, SedCatch Sedcages as indicated on the project documents.
2. Temporary Electricity:
 - a. No temporary electricity will be available to this Contractor. Contractor to provide all gas or diesel operated generators required for their scope of work
3. Temporary Lighting:
 - a. Contractor shall provide task lighting and temporary light stands as necessary.

4. Coordination and Layout
 - a. Contractor will be responsible for the complete coordination of work of this bid category with all other trades to identify and resolve conflicts. Any and all financial implications emanating from this Contractor's lack of planning and coordination will be borne by this Contractor. This shall include blocking, backing conduits, sleeves, penetrations, and any other appurtenances which may not be specifically identified by the contract documents but are required to complete this scope of work.
 - b. This Contractor is responsible for all detailed layout required for proper location and coordination of work.
 - c. Contractor shall review the critical dimensions and elevations of all work and shall otherwise verify the conformity of existing work to the Contract Documents and to its suitability. Contractor shall promptly submit a written statement to Barton Malow Builders and Architect/Engineer noting any discrepancies or unacceptable conditions as they relate to its work
 - d. Contractor shall attend all meetings as required to properly coordinate its Work with that of Others. Coordination efforts should be focused on minimizing any post-installation damage and required patching operations.
 - e. Contractor shall visit the site and attend meetings as required to properly coordinate the Work.
 - 1) Coordination efforts should be focused on minimizing any post-installation damage and required patching operations.
 - f. Initial benchmarks are shown on the project drawings.
5. If there are discrepancies between any of the project drawings, project schedules, project notes/keynotes, specifications, work scopes, or project manual, the Contractor shall include the most stringent (expensive) cost in base bid.
6. This contractor is responsible for removal of ALL existing utilities to be demoed and removed, along with necessary backfill.
7. Contractor is responsible for all striping and painting according to drawings.
8. Contractor is responsible for all parking lot signage as required by drawings.
9. Contractor is responsible for all flatwork within and surrounding new building according to bid documents.
10. Contractor is responsible for all foundations for new building
11. Contractor must bring water main and sanitary line within 5 feet of new building.
12. Contractor shall include multiple mobilizations to complete the Work.
13. Contractor is responsible for all guardrails as shown according to drawings and spec.
14. Asphalt Paving
 - a. Provide and pay for all city, county, and MDOT permits, inspection fees, and maintenance bonds required for work of this bid category.
 - b. Provide and install all Asphalt Paving including subbase, base, binder material, final course, pavement markings, and other items as required by the Contract Documents and as clarified herein.
 - c. Contractor shall include multiple mobilizations to complete the Work.
 - d. All deliveries are to come off roads as directed by Barton Malow Builders.
 - 1) 9 mile road
 - e. All site barricading and fencing is to remain closed during work hours and is to be in proper place at the end of each work day.
 - f. Protect existing curbs during construction. Replace any curbs that are damaged or undermined. Identify any curb that is damaged prior to construction start. Document with Architect/Engineer and Barton Malow Builders.
 - g. Earthwork required for work of this bid category.
 - h. Owner and City/County roads must be cleaned and maintained and swept as needed to keep roadways clear for normal traffic.
 - i. Provide all rough grading and finish grading for work of this bid category.
 - j. Fine grade, compact, and proof roll subgrade and sub base.

- k. Contractor shall include final grading and placement of base/leveling course.
 - l. Contractor shall provide and install tack prior to placement of wearing course.
 - m. Base/leveling course and wearing course shall not be placed in the same day.
 - n. Pulverize and reshape grade as shown on drawing.
 - o. Do not install stone base until site lighting, working properly, and verified by Electrical Contractor.
 - p. Provide and install all stone base per the contract documents.
 - q. Provide additional engineered fill and stone base where grade is disturbed for installation of catch basins, storm lines, and pole bases. Remove contaminated base from the project site and take to a legal dump.
 - r. Provide and install any geo-tech fabric and geo-grid.
 - s. Provide and install any under drainage systems.
 - t. Coordinate the final elevation of all structures located in pavement and include the adjustment of any existing structures that are to be incorporated into the Work.
 - u. Provide and install any expansion, contraction and control joints and joint sealants within the Work.
 - v. Provide and install any trench drains that are located within the Asphalt Pavement. Tie-in of the drains to be by the Site Utility Contractor.
 - w. Provide and install all traffic signage, mirrors, and other items as required, including pavement striping, parking striping, parking signage, wheel stops, other pavement or curb markings and symbols as shown on the drawings and as specified. Include any additional "No Parking Fire Zones" which may be required by the Authority Having Jurisdiction.
 - x. Provide and install all signage as noted on the drawings.
 - y. Remove, salvage, and reinstall signage as shown. Provide and install new posts for salvaged reinstalled signs as necessary per bid documents.
 - z. Clean asphalt of oils prior to installing striping.
 - aa. Provide and install all striping as noted on the documents.
 - bb. Provide milled joints where new pavement meets existing.
 - cc. Thoroughly clean existing and new asphalt from oils, dirt, and other debris before applying new pavement striping.
 - dd. Provide and install all concrete gutters and curbs adjacent to the Asphalt Paving.
 - ee. Provide and install rebar, fiber mesh, and steel reinforcement for concrete work as shown or specified.
 - ff. Provide and install all items that are embedded within the Work.
 - gg. Provide and install all galvanized steel bollards as shown and paint yellow.
 - hh. Provide and install all backfill and compaction behind curbs, walks, and all areas disturbed by work of this bid category to a depth of 3" below existing grade and/or for new grade elevations shown for the installation of topsoil and seeding.
 - ii. Provide and install 3" depth of screened topsoil behind all curbs, walkways, and areas disturbed by construction. Seed all disturbed areas.
15. Concrete Paving
- a. Provide and pay for all city, county, and MDOT permits, inspection fees, and maintenance bonds required for work of this bid category.
 - b. Provide and install all Concrete Paving including subbase, base, pavement markings, embedded items, reinforcing, markings, and all other items as required by the Contract Documents and as clarified herein.
 - c. Provide and install all traffic signage, mirrors, and other items as required, including pavement striping, parking striping, parking signage, wheel stops, other pavement or curb markings and symbols as shown on the drawings and as specified. Include any additional "No Parking Fire Zones" which may be required by the Authority Having Jurisdiction.
 - d. Contractor shall include multiple mobilizations to complete the Work.
 - e. All deliveries are to come off roads as directed by Barton Malow Builders.

- f. The contractor shall have a minimum of two (2) flag men/women on site at all times directing truck/pedestrian traffic and keep barricades in place, and keeping the public out of the construction area.
 - g. All site barricading and fencing is to remain closed during work hours and is to be in proper place at the end of each work day.
 - h. Protect existing curbs during construction. Replace any curbs that are damaged or undermined. Identify any curb that is damaged prior to construction start. Document with Architect/Engineer and Barton Malow Builders.
 - i. Earthwork required for work of this bid category.
 - j. Owner and City/County roads must be cleaned and maintained by sweeping trucks that utilize water for dust control. As Barton Malow seems fit.
 - k. Provide all rough grading and finish grading for work of this bid category.
 - l. Fine grade, compact, and proof roll subgrade and sub base.
 - m. Provide additional engineered fill and stone base where grade is disturbed for installation of catch basins, storm lines, and pole bases. Remove contaminated base from the project site and take to a legal dump.
 - n. Provide and install any geo-tech fabric and geo-grid.
 - o. Provide and install any under drain systems.
 - p. Do not install stone base until site lighting are energized, working properly, and verified by Electrical Contractor.
 - q. Provide and install all stone base and concrete paving per the contract documents.
 - r. Provide and install rebar, fiber mesh, and steel reinforcement for concrete work as shown or specified.
 - s. Provide and install all concrete gutters and curbs.
 - t. Provide and install all concrete walks.
 - u. Coordinate the final elevation of all structures located in pavement and include the adjustment of any existing structures that are to be incorporated into the Work.
 - v. Provide and install any expansion, contraction and control joints and joint sealants within the Work.
 - w. Provide and install any trench drains that are located within the Concrete Pavement. Tie-in of the drains to be by the Site Utility Contractor.
 - x. Provide and install all signage as noted on the drawings.
 - y. Remove, salvage, and reinstall signage as shown. Provide and install new posts for salvaged reinstalled signs as directed on bid documents.
 - z. Provide and install all striping as noted on the documents.
 - aa. Provide and install all items that are embedded within the Work.
 - bb. Provide and install all galvanized steel bollards as shown.
 - cc. Provide and install all concrete aprons immediately adjacent to building structures.
 - dd. Provide and install any vehicle concrete ramps that are outside the footprint of the building structure.
 - ee. Provide and install all concrete filled metal bollards which are embedded into walks, curbs or concrete aprons which are part of this Work. Bollards to be provided by this Contractor.
 - ff. Comply with all ADA requirements on ramps and walks.
 - gg. Provide and Install all truncated domes as shown or required.
 - hh. Provide all concrete sealer as shown or specified.
 - ii. Provide and install all backfill and compaction behind curbs, walks, and all areas disturbed by work of this bid category to a depth of 3" below existing grade and/or for new grade elevations shown for the installation of topsoil and seeding.
 - jj. Provide and install 3" depth of screened topsoil behind all curbs, walkways, and areas disturbed by construction. Seed all disturbed areas.
 - kk. Provide and install any concrete aprons
16. Foundations
- a. Contractor is responsible for all foundations for new building.

G. EXCLUDED:

1. Landscaping, seeding, site furniture, precast concrete pavers, plants and shrubs, concrete planters, frost stoops.

1.04 SPECIAL CONSIDERATIONS:

- A. Labor Rates/Unit Prices/Alternates: Provide the following information on the bid form:
- B. Labor/Equipment Rates:
- C. This Contractor is to provide as a part of his proposal a fully detailed labor rates for Barton Malow Builders approval for work associated with this Contractor's and for each of their Subordinate Parties Trades. In addition, labor rates will be required for all equipment involved with the performance of the work required by this Bid Category.
- D. Unit Pricing: None
- E. Allowances: This Contractor must obtain written authorization from Barton Malow Builders prior to performing the associated work below. Include in this Contractor's bid, allowances for work as follows.
- F. Provide Allowance for the following
 1. General Allowance - \$100,000
- G. Alternates:
 1. Pricing to Eliminate the steep berm on the north and east sides of property. Maximum elevation of berm to be 674, creating a more flat/gentle slope. Please refer to document labeled "Alternate reduce size of berms." Areas highlighted in yellow.

END OF SECTION 31 0000