

SCOPE OF WORK

CATEGORY: BC23 Site Utilities

PART 1 – GENERAL

1.01 Related Documents

Division 00 – General Conditions and Supplementary Conditions

Division 01 – General Requirements

Exhibit A – Baseline Schedule

Exhibit B – Logistics Plan

Exhibit C – Soils Report: RMA Group dated August 8, 2024

Exhibit C.1 – Hydrology Report by KPFF Consulting Engineers dated 4/12/24

Exhibit D – Hazmat reports by Charles Taylor Environmental Technical Services

Exhibit E – Final Environmental Impact Report State Clearinghouse No.2023110328 dated June 2024

Exhibit E.1 – Mitigation Monitoring and Reporting Program State Clearinghouse No.2023110328 dated

Exhibit F – Reference Plans: The Construction of Ontario Regional Sports Complex (offsite utility and street plans)

Exhibit F.1 – Reference Plans: Mass Grading Package Phase 1

Exhibit F.2 – Reference Plans: Mass Grading Package Phase 2

Exhibit G – Site Concrete Limits

1.02 Relevant Technical Specifications Sections:

33 00 00 – Utilities

33 14 00 – Water Utility Transmission and Distribution

33 30 00 – Sanitary Sewerage

33 40 00 – Stormwater Utilities

PART 2 – GENERAL INCLUSIONS:

1. The work includes but is not necessarily limited to furnishing all: labor, materials and the installation of same, appliances, tools, equipment, facilities, transportation, receiving and unloading, hoisting, task lighting, applicable taxes and services necessary for, and incidental to, performing all operations in connection with this scope of work.
2. The breakdown of the scope of work by specifications is for organizational purposes only. The scope noted herein provides additional clarity only. It is not necessarily all inclusive. Where there is a reference to a detail, plan sheet or a note, this is to bring awareness only. Unless specifically “excluded”, this Contractor has the entire scope of work.
3. The scope noted herein; regardless, if duplicated in another’s scope of work and other contract documents, shall be included in this Category Contractor’s base bid. In the event a scope item is duplicated in another Contractor’s scope of work and/or and other contract documents, this does not relieve this Contractor from the responsibility of the scope. It shall be the Construction Manager’s discretion as to which Contractor will perform the scope of work and who shall provide a credit for the value of the scope not provided.
4. Any reference in this scope to “Contractor”, “Category Contractor”, “Bid Category Contractor”, “Bid Package”, “Trade Contractor”, “Contractor”, “Subcontractor” or any version of these are all synonymous / one-in-the same.
5. Contractor shall provide at the job site a Superintendent fluent in written and spoken English at all times during the performance of this Contractor’s scope of work. It is the Contractor’s responsibility to supervise their on-site crews and subcontractors at all times work is being performed under Contractor’s scope of work.
6. Contractor is responsible to know the latest SCAQMD requirements:
 - A. Includes implementing those means necessary to ensure any and/or all related work materials, fluids, equipment, etc. are stored or covered in a manner acceptable to the requirements.

- B. Contractor shall provide and maintain adequate dust control throughout the duration of their operation, including, but not limited to: washing/sweeping of existing sidewalks, public streets and concrete and asphalt access roads on a daily basis. Mitigation of dust shall be to the satisfaction of the Owner, City/County, and/or SCAQMD.
 - C. Any penalties the owner receives due to this Contractor's negligence will be forwarded to this Contractor for reimbursement.
7. Contractor shall take reasonable care to maintain Storm Water Pollution (SWPPP) related erosion control facilities and temporary storm water diversion means during all work.
 - A. If inclement weather is foreseeable during operations of this trade, this Contractor shall use its best effort to leave the site in a condition that minimizes the effects of erosion caused by such weather.
 - B. Contractor to protect all work from effects of inclement weather at its own cost. Protection of this Contractor's work area is the responsibility of same.
 - C. Any corrections and or repairs required due to damage inflicted by the work of this Contractor shall be the responsibility of same.
 - D. Any penalties the owner receives due to this Contractor's negligence will be forwarded to this Contractor for reimbursement.
 - E. Contractors requiring wash out shall have their washout container(s) clearly marked. NO direct dumping onsite and/or into sewer and/or draining systems.
 - F. Contractor to review 01 64 00 for additional relevant information.
 8. Contractor shall comply with all CAL OSHA requirements.
 9. Written survey requests are to be provided to Construction Manager's Superintendent a minimum of three (3) working days prior to the start of work requiring surveying and are to be submitted in a manner that does not require excessive surveyor move-ins.
 10. Contractor shall properly install and maintain all barricades, traffic control, warning lights, flagmen, for deliveries, hauling and/or disposal, including permits & fees as required by local and/or governing Agencies / municipalities for Contractor's scope of work whether expressly mentioned or not.
 11. Contractor shall provide additional fencing, barricades, and/or other protection, which is in addition to site perimeter temporary fencing provided by others to protect open excavations or other hazards resulting from this Contractor's work. Contractor shall cover all open trenches with Cal OSHA compliant covering or soil each day. Temporary trench covering is to be installed in a manner so as to eliminate tripping hazard. It is the Contractor's responsibility to security material and equipment. Any theft of material/equipment is the Contractor's responsibility to replace.
 12. Contractor is responsible to turn in Inspection Requests (IRs) and/or testing requests to Construction Manager's Superintendent no less than 48 hours prior to desired IOR inspection and no less than 72 hours for testing laboratory (LOR) inspection. Work must be complete and in compliance with the contract documents prior to IOR inspection. Contractor shall provide the necessary resources to make up time and bear all related cost associated with any late inspection requests and/or rejected inspections.
 - A. Contractor foreman shall walk with the IOR during all inspections for this subcontractor's scope of work.
 13. Any F.O.B. material and/or coordination required for the installation by this Contractor and/or other Contractors, shall be forwarded by the supplying Contractor with a letter of transmittal and detailed shop drawings showing dimensions, locations, and individual piece count to the installing Contractor via Tilden-Coil. ALL F.O.B. deliveries shall be coordinated with Construction Manager and the receiving Contractor at least 48 hours in advance. The receiving Contractor shall unload, inventory, and inspect materials. All shortages and damaged material must be noted on said transmittal. Receiving Contractor shall sign and date transmittal. Once the transmittal has been signed, it shall be the receiving Contractor's responsibility to protect and secure the material.

Supplying Contractor shall forward a copy of signed transmittal to the Construction Manager's site office for their review and records. Supplying Contractor shall forward all F.O.B. material within the time limits as noted in the construction schedule so as to not delay receiving Contractor's work. If work is delayed due to the untimely forwarding of required material and/or information, the applicable Contractor shall be responsible for any and all costs incurred due to delays and/or corrective work.

14. A representative from this Contractor is to be on site to receive all material deliveries, whether they are performing work on site at the time or not. Construction Manager will not receive or sign for any deliveries of this Contractor's material. Contractor is to provide traffic control, including but not limited to flagmen, signage, delineators, etc. for any delivery vehicles that are unable to be unloaded on the project site, in accordance with all local traffic laws.
15. Contractor understands that housekeeping is critical to both safety and efficiency. Therefore, daily cleanup is an obligation of the contract. Contractor is responsible to legally remove their debris offsite on a daily basis or as necessary as not to be an impact to safety and dependent trades / progress of the project schedule. If daily housekeeping falls below acceptable standards, the Owner shall consider one of the three options to mitigate:
 - A. Require a composite cleanup crew, as needed, until standard is restored. Contractor's manpower contribution size will be based on manpower size as follows:
 - i. 1 to 5 workers = 1, 6 to 10 workers = 2, 11-15 workers = 3, 16 to 20 workers = 4, 20+ workers = 5.
 - B. Hire a separate cleanup crew as needed until standard is restored. Hired crew will be funded via a deductive change order to the offending Contractor(s).
 - C. Require an "all hands" cleanup session as needed until standard is restored.
16. Contractor shall protect all existing on and/or offsite conditions. Any damage sustained by the work of this Contractor, shall be repaired or replaced by the next shift or as directed by Construction Manager or Owner at the expense of this Contractor.
17. For known trade causing damage, it is required to be repaired by the next shift.
18. Contractor has been allotted a number of days for construction activities that relates to this trade. Contractor must manage to complete all work in allotted time frame without excuse. Contractor agrees to assign the appropriate manpower to complete the activities. Therefore, all clarification and approvals must be obtained prior to start of work and in such time as to allow response, procurement, and preparation without compromising the schedule activity time and scheduled start date and finish date. Late coordination and RFI's requested during work progress will not be an excuse for delay.
19. Contractor shall provide their own storage and safety measures.
20. Mobilizations and move-ins as necessary to achieve the progression of the project schedule.
21. Contractor understands and is responsible for all layout for their respective work.
22. Any new substrate provided by others for this Contractor's use and/or any existing substrate (existing conditions) is found to be unacceptable at the time of installation, Contractor shall advise Construction Manager before commencing. Any repairs and/or replacement required to the substrate once Contractor has commenced their work on the substrate, all costs associated with the removal and replacement of finished product shall be at the expense of this Contractor.

PART 3 - TRADE SPECIFIC INCLUSIONS:

Site Utilities – New Installation or Modifications to Existing:

1. Domestic water, fire water, sanitary sewer, and storm drain systems.

2. Cleanouts, inlets, drain inlet filters, catch basins, perforated drains, trench drains, under sidewalk drains, junction structures, manholes, local depressions, gratings for drains, P.I.V. (post indicator valves), D.D.C. (detector check assembly), F.D.C. (fire department connections), hydrants, risers, shut off valves, yard boxes, vaults, pressure reducing stations, backflow devices assemblies, manifold and regulators.
3. Supervisory tamper switches at OS&Y & PIV valves. Electrical contractor will provide power and monitoring.
4. All incidental or required fittings, associated accessories, appurtenances, thrust blocks, tracer wire and tape.
5. Tie-in to existing utilities. Modify existing lines accordingly to allow new tie-in.
6. Grease interceptor assembly by Plumbing Contractor. All piping from the grease interceptor to the sewer POC by this Contractor.
7. The CF drainage plan sheets show the storm drain system under the sports fields and bullpens. This contractor to provide all solid PVC storm drain lines on the CF sheets into each field and cap the line. The Field Turf Contractor will connect to this capped line ~~basin~~ and will provide all perforated drains and the Nyoplast basins within the interior limits of each field.
 - A. This limitation of perforated storm drain only applies to the actual sports playing fields. All other perforated piping and systems are by this Contractors inclusive of but not limited to the non-sport field areas where there is artificial turf.
8. Connections to landscape irrigation service.
9. Subterranean drainage and perforated pipe, gravel and filter fabric.
10. Extend site fire line into the building to 6" A.F.F. with welded flange. Riser to be stainless steel.
 - A. Coordinate flange with Fire Sprinkler Contractor for fire riser attachment.
 - B. Refer to Division 21 for any additional information necessary for underground site fire line installation to ensure compliance and compatibility with the building fire riser.
11. Coordinate and connect storm drain laterals to roof drains, with architectural, civil, and plumbing plans. Provide storm-drain laterals whether shown or not.
12. Coordinate finish grade and/or finish surface slope requirements with Concrete Contractor and/or Paving Contractor during layout. Verify correct height and location of drains, stub-ups, and clean-outs prior to and during concrete and/or asphalt placement.
13. Paint exposed devices including backflow, hydrants, and valves.
14. All pipe, device identification, tags as well as, signage associated with utility devices/equipment.
15. Flush the site fire line with the appropriate authority present and provide documentation to the Fire Sprinkler Contractor of acceptance of the system flush.
16. Upon completion, flush the entire storm drain and sewer systems. Provide an electronic video to ensure piping is sound and miscellaneous or construction debris are not found inside each system prior to turnover to the Owner. The Construction Manager shall be notified and included during the flushing and electronic video. A copy of the video shall be provided to the Construction Manager and one to the Owner.
17. Participation in BIM (Building Information Modeling).

18. Piping, structures and appurtenances for all wet utility piping for storm drain, domestic/fire water, and sewer shown on the Landscape Architecture "L" plan sheets.
19. Freestanding water mister poles, push button control stanchion, electrical pull box inclusive of all electrical conduit, vault for pump box, "irrigation pull box" inclusive of all piping, and all foundations per 2/L-2.05 for a complete and operable system. Provide properly sized water piping source to the misters whether shown or not. Only electrical wiring from the source panel to the electrical pull box will be provided by the electrical contractor.
20. Site drinking fountains regardless if noted as provided and installed by owner.
21. All sewer and storm drain excavations will not be permitted to be excavated with benched/sloped trenching. Contractor shall use shoring means and methods to keep all sewer and storm drain trenches to a minimum width to allow for other concurrent work when the trench depth exceeds 4'.
22. **Wundercover utility infill covers as noted. In the event a Wundercover is not noted provide in all areas where vaults/manholes/utility boxes are located in concrete flatwork or masonry pavers.**

Miscellaneous Scope of Work and Coordination:

23. All related excavation, bedding, backfill and compaction. Return grades disturbed to compacted grade within +/- 0.10 foot of engineered grade.
 - A. Shore as needed to support trench excavations.
 - i. For trenches greater than 5 feet, pursuant to Labor Code Section 6705, submit a detailed plan showing the design of shoring for protection from the hazard of caving ground.
 - ii. For trenches 20 feet and greater, submit engineered shoring plans by a California registered licensed engineer.
 - B. Comply with geotechnical general notes identified in the soils report.
24. Pot-hole before trenching to avoid existing utilities and to confirm inverts prior to commencement of any utility installation.
25. Protect plumbing related trenches. Set up dewatering measures prior to commencement of rain and maintain as necessary. Remove mud and implement the necessary remediation to restore compaction.
 - A. Contractor may elect to install a rat slab at bottom of trench as their means and methods in protecting the integrity of the trench bottom.
26. Stock pile excess soils to an on-site location as determined by the Construction Manager. Until this Contractor's spoils have been located to the determined location, it shall be this Contractor's responsibility to protect spoils in accordance with the SWPPP requirements. Once the spoils have been located to a common site location, it shall be the responsibility of others to maintain.
27. As-built drawings showing depth of utilities (provide pipe invert elevations) and horizontal dimensions in two (2) directions, referenced from fixed building points must be updated weekly, and will be reviewed prior to approval of pay requests.
28. Temporary Water Service:
 - A. Connect to the water service and provide a 2" fire hose/bibb connection and domestic hose bibb each with a backflow preventer. Provide (4) locations at each corner of the site. Coordinate location with Construction Manager.
 - B. Cut and cap water lines when directed by the Construction Manager.
 - C. Provide (8) 100' fire hoses and nozzles for Construction Manager and trade use.

PART 4 – ALLOWANCES:

1. Bid Contractor shall include in their base bid the Trade Specific Bid Category Allowance identified in Division 01 (Specification Section 01 21 00 – Allowance). This allowance shall be used at the discretion of the Construction Manager and/or Owner. The allowance shall not be used for this Contractors' poor workmanship, missed scope, delays imposed due to this Contractor, or corrective work. All labor rates and material cost shall be determined in accordance with the General Conditions. All mark-up, general conditions, bonds, fee, overhead & profit, insurance, and supervision for this allowance shall be in addition to the allowance amount identified in Division 01 and is to be included in this Contractor's Base Bid. This allowance shall be specifically itemized on this Bid Category Contractors Schedule of Values.

PART 5 - EXCLUSIONS:

1. Grease interceptor (By Plumbing Contractor)

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