

SCOPE OF WORK

CATEGORY: BC06 Masonry

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:

03 45 00.1 – Architectural Precast Concrete

Division 04

07 90 00 – Joint Protection (as it applies)

07 92 00 – Joint Sealants (as it applies)

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:

1. Structural and non-structural building and site related CMU, Veneer, and Pre-Cast Architectural Concrete.
2. Foundation rebar and footings for site masonry walls.

3. All survey for this scope of work including establishing all control points from benchmarks.
4. Reinforcing for masonry, pilasters, and associated footings.
5. Reinforcing bars and dowels that originate in CMU and extend into structural concrete, slabs, decks, or flatwork.
6. Weld reinforcing bars in CMU where noted.
7. Rough framing for bucks and support framing for openings. Provide the necessary support to ensure frames remain plumb and true during block installation.
8. Wall bracing / shoring:
 - A. All necessary bracing to support CMU wall(s) construction.
 - B. Shore walls where noted on the plans until required to remove.
 - C. Provide engineering plans/calculation by a California licensed engineer for approval as required or noted.
9. Coordinate top of footing elevations and rebar layout with Concrete Contractor.
10. Coordinate structural bearing top of wall or pockets with structural steel shop drawings.
11. Provide block cutouts to accommodate other trade's sleeves and/or penetrations.
12. Elevator openings at CMU wall / conditions.
 - A. The required rough opening for the elevator cab installation is larger than the elevator door/jamb opening. The Masonry Contractor shall:
 - i. Coordinate with Construction Manager and Elevator Contractor the required rough cab opening. Install CMU to the required opening size for cab assembly.
 - ii. Masonry Contractor to re-mobilize to drill/epoxy rebar and place CMU from the cab access rough opening to the elevator door jamb opening.
13. Set all FOB horizontal and vertical embedded bolts, embed plates, ledgers, and sleeves. Use shop drawings for placement.
 - A. Provide the necessary support to ensure embedded items are plumb and true during block and grout installation. Continually confirm placement and validate following grouting.
 - B. Tighten nuts on embed bolts per AISC standard prior to the dismantle of scaffolding.
 - C. Hollow metal frames.
14. Grout baseplates in CMU walls and beam pockets.
15. Jamb / wire anchors in CMU at hollow metal frame conditions. Jambs / wire anchors FOB by door contractor.
16. Grout hollow metal frames.
17. Patch scaffold ties / holes.
18. Contractor shall remove any damaged or blemished block faces and replace with veneer block shell.
19. Facing blocks shall be backed by solid grouting. Include any facing block that may be required to cover steel. Once the steel is erected, the block veneer face shall be installed.
20. Joint sealant at CMU expansion conditions and where CMU abuts an adjacent finish, including backer rod as necessary.

21. Install and maintain rebar caps on rebar installed by Masonry Contractor. Rebar caps to remain until masonry walls are installed. Remove and bag caps when wall is installed and deliver to Construction Manager. **Rebar caps at masonry wall footing is by others.**
22. Provide scaffolding necessary to safely install masonry.
23. Remove efflorescence that occurs during the curing stage. Coordinate acid wash with painter to ensure block is sealed immediately after efflorescence is removed. Sealer Protect adjacent finish surfaces prior to starting acid wash.
24. All veneer.
 - A. All anchorage systems and clips required for precast trim & masonry veneer systems.
 - B. Where veneer occurs, the Plaster Contractor will provide scratch & brown coats.
25. Face shell replacement at bonding core test.
26. Sandblast any laitance before block sealant is applied.
27. Provide mock-ups for prism testing. Allow adequate time to assemble, inspect and cure for test and testing results.
28. Inspect and eliminate all irregular shaped units prior to installation.
29. High Lift Grout Procedure request must be submitted in writing 15 days after NTP. No delays to schedule will be granted for failure to submit a timely request.
30. Cover stored block and tops of installed block prior to any inclement weather.
31. During periods of inclement weather, Masonry Contractor to protect top of CMU walls from water seeping into top of block.
32. Provide 8' long mock-up of seat wall end condition and wall cap for review and approval prior to construction. Mockups shall not be part of production. Provide mock-up 2 months prior to the start of any activities associated with this scope of work. Mock-up to be independent from any actual permanent work, removed upon completion or direction from the CM.
33. Coordinate footing vertical rebar layout with concrete contractor for CMU block module layout.
34. Coordinate the erection of CMU Block walls at Shipping Container Yard with Construction Manager to ensure containers are loaded in prior to walls.
35. Precast concrete, including but not limited to keystones, counters, caps at CMU planters, pilaster caps, wainscot caps, windowsills, lintels, parapet caps, concrete bases, **banding, and all other shapes and elements.**
- ~~36. All exposed CMU shall be integral color, split face.~~
37. Grout infill in between double retaining/seat walls per 10/S-3 & 7/S-8.
38. Coordinate gate opening dimensions with concrete and fencing contractors prior to footings.
39. Grout around plumbing penetrations similar to 13/A-9.1.
40. Coordinate with Roll Up Door contractor for R.O. Requirements.

41. Coordinate with Elevator contractor for R.O. requirements.

42. CMU and veneer at Monument Signs located on sheet W-02.

43. CIP concrete wall/table/bench caps.

44. Contractor shall include in base bid an additional [300] journey man-hours to be used at the discretion of the Construction Manager or Owner. Man-hours not used will be credited back to the Owner. Hourly rate shall be determined in accordance with change order section of the General Conditions. The man-hours shall NOT be used towards poor workmanship or contract work not in accordance with the contract documents.

A. Includes \$15,000 in material accommodate the above man hours.

45. Contractor shall install all metal railing sleeves into masonry. Where plans show railing to be “wet-set” or embedded, contractor is to assume this to be a sleeve. The railing contractor will provide all metal sleeves F.O.B. to this contractor for installation. Layout drawings will be provided by the railing contractor for this contractor to install per those drawings.

46. Concrete Infill at Main Entry Gate Pilasters per 1/L-2.29.

47. Pilaster for Plaque with trim as noted on 1/L-2.52.

A. Infill void between both CMU walls with grout.

48. Excavation for site CMU related footings.

A. Including backfill for footings & retaining walls.

49. Coordinate with Signage Contractor for embedded light fixture at Steel Trellis Pilaster Caps.

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. Building Foundation rebar and welding rebar to embeds.