

## **SCOPE OF WORK**

### **CATEGORY: BC03 Concrete: North Site Concrete**

#### **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 10 00 – Concrete Forms and Accessories

03 20 00 – Concrete Reinforcing

03 21 00 – Reinforcing Bars

03 30 00.01 – Cast-In-Place Concrete (Site)

03 45 00 – Architectural Precast Concrete

03 45 00.01 – Architectural Precast Concrete

31 23 00 – Excavation and Fill (As It Applies)

32 13 13 – Concrete Paving

#### **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:**

#### **Building Related Concrete:**

1. Bottom stair landings at buildings.

#### **Drilled Caissons / Piles / Foundations:**

2. All foundations for all site items unless specifically excluded.
3. Provide shop drawings and schedule showing drill and pour sequence.
4. Gravel backfill at top of piles to protect reinforcement during grading operations.
5. Temporary plywood collar around pile hole. Top of piles to be cast/sleeved/formed as to not have over pour and be able to "plug in" to the bottom of the pile caps.
6. Restore grade to +/- .10'.
7. Remove all drilled spoils.
8. Concrete foundations and bases for all signage in the W-sheets.

#### **Site Related Concrete:**

9. All site and off-site concrete (structural or non-structural) including but not limited to sidewalks, handicap ramps, landings, flatwork, stairs, curbs, curb & gutters, swales, driveway approaches, substrate, steel and concrete bollard bases, site walls, seat walls, concrete CIP benches, equipment foundations, housekeeping and mechanical pads, thickened edges, and mow curb/ strips.
10. All survey for this scope of work including establishing all control points from benchmarks.
11. Detectable warning surfaces/truncated domes at all concrete paved conditions.
12. Refer to all plans for additional site paving scope information.
13. Install FOB:
  - A. Handrail sleeves. Concrete Contractor has handrail footings.
  - B. Bollards and/or bollard sleeve and footing. Fill bollard with concrete.
14. All joint sealant at concrete related joints and/or where concrete abuts an adjacent surface.
15. Terraced seating (reference 1/L-2.20 and 1/L-2.16).

16. Mow curbs beneath site fencing.
17. Mow curbs as noted at the tops of circular foundations (reference S-5 for an example).
18. Concrete Stage (ref. detail 1/L-2.40).
19. Washout bins.
20. Cast-in-place concrete seat wall caps.
21. Art sculpture (whistle, soccer ball, and baseball) foundations.

**Reinforcement:**

22. All steel reinforcing for all structural and non-structural building related foundations, slab on grade, decks, mechanical pads, and walls including welded wire mesh and all reinforcing accessories.
23. Reinforcing bar and welded wire fabric for site work including but not limited to flatwork, concrete paving, thickened edge, equipment and housekeeping pads, sidewalks, ramps, stairs/steps, curbs, gutters, swales, approaches, planter walls, site walls, seat walls, light bollards, steel pipe bollards, monument signs, equipment pads, light pole bases and cages, concrete and masonry footings and foundations.
24. Rebar Welding:
  - A. Rebar greater than 6'-0" that welds to structural steel.
  - B. Rebar less than 6'-0" and welds to structural steel is by others.
  - C. All other rebar welding where noted.
  - D. Should Contractor elect to butt weld rebar, Contractor shall be responsible for all cost associated with the necessary approval and associated delays.
25. Unload and hoist reinforcing. Coordinate hoisting of elevated deck reinforcement with Structural Steel Contractor. If Steel Contractor's crane is not on-site, hoisting of reinforcement is by Concrete Contractor.
26. Rebar splice lengths shall take into consideration the required starter walls so that appropriate splice lengths are maintained. Coordinate footing elevations and stem wall heights with concrete and masonry contractors.
27. All dowels, smooth or speed dowels and epoxy dowels. Smooth/slip dowels shall be cut smooth with a saw and will not be sheared. Drill dowel where necessary grease, slip dowel sleeve, and epoxy as required.

**Miscellaneous Scope of Work and Coordination:**

28. Concrete Contractor to receive building pad and site area subgrade at  $\pm 0.10'$ . Concrete Contractor shall fine grade for concrete installation. Beginning of installation means that Concrete Contractor accepts the conditions and grades of the existing subgrade.
  - A. Any revisions to the subgrade elevations, after acceptance will be at the expense of this Contractor. All cost associated to remove/repair/replace work installed under this scope of work shall be the responsibility of this Contractor.
  - B. Contractor shall maintain the subgrade elevations as they were provided.
  - C. Contractor shall be responsible to legally remove any remaining spoils from the fine grading operation.
29. Excavate all work included in this scope including, recesses, depressions, thickened edges, foundations, footings, and walls. Backfill and compact to subgrade elevation.
30. All necessary formwork.

31. Protect excavated footings. Maintain excavations, staging areas, and access by dewatering / pumping water and remove mud as well as restoring compaction.
  - A. Contractor may elect to install a rat slab at bottom of footing as their means and methods in protecting the integrity of the footing bottom.
  - B. Any footing restoration shall commence immediately as not to impact the schedule.
32. Crushed Aggregate Base and/or sand under site concrete work where noted or specified.
33. Sandblasting and/or use other means as necessary to ensure reinforcing is in an acceptable condition before concrete pour.
34. Provide rough surface condition where concrete abuts an adjacent material as noted.
35. Subgrade at site stairs will be a straight grade from upper subgrade to the lower subgrade by the Grading Contractor. Any fine grading required to achieve the necessary subgrade for the stairs is by the Concrete Contractor. Includes backfill of walls as necessary to achieve finish grade.
36. Sawcut or tool of expansion joints as required by the drawings, specifications, and American Concrete Institute (ACI). Provide shop drawings for all construction and control joints prior to pouring concrete.
37. Remove debris from footings, SOG substrates before pours.
38. Install and maintain rebar caps, during the installation of rebar and/or until permanent finish such as concrete or masonry have been installed.
39. Patch and sack (smooth rubbed finish) all exposed concrete to match designed finishes. Sack all concrete foundation walls that are exposed 2" and greater between the finish surface and the building finish; regardless, if shown on not. Trowel on cement finish will not be allowed.
40. Excess spoils generated by this scope of work shall be placed at an on-site location as determined and approved by the Construction Manager. Protect spoils according to SWPPP requirements until they have been located to the determined location. Once the spoils have been located to a common site location, they shall be the responsibility of others to maintain.
41. Areas to receive waterproofing shall be formed or finished to have a smooth and uniform surface for the application of the waterproofing. This includes all necessary grinding and patching of form-tie/shape-tie holes.
42. Integral colors and finishes as noted or specified.
43. Sealer finish where noted.
44. Forward shop drawings showing all necessary pour sequences for review and approval.
45. Provide a minimum 6' x 6' mock-up:
  - A. Each concrete finish including color, joints, and flatness; regardless, if specified or not for approval by Architect/Owner.
  - B. Concrete Contractor to maintain mock-up through the duration of the project, as well as remove and legally dispose.

46. Coordinate with Grading Contractor for layback of safety slopes necessary for the construction of retaining walls. Grading Contractor shall complete the grading and fill of the layback area, only after completion of the wall and/or retaining structure. Concrete Contractor shall backfill all other items created by this scope, including foundations, curbs, walls, and planters.
47. Includes all pre molded joint fillers filled with non-shrink caulk and glaze. Provide sand casted finish at the direction of the Construction Manager whether shown or not. Includes all caulking/sealant at site concrete terminating against face of building.
48. Upon completion of the work and after punchlist corrections have been made broom sweep and power-wash all concrete surfaces. Includes managing water run-off to avoid flooding adjacent areas.
49. 400 Journeyman hours of labor to be used at the discretion of the Construction Manager, provide SOV line item showing allowance, any unused hours will be returned to the owner upon project completion.
  - A. \$15,000 of materials to be provided for the above labor if required.
50. Demo, remove, haul and dispose of 300LF of installed curb and gutter. Provide an additional 300LF of curb and gutter replacement. Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
51. Demo, remove, haul and dispose of 2,500 square feet of installed concrete flatwork up to 8" in thickness. Provide an additional 2,500 square feet of concrete flatwork replacement, include #4 reinforcing bar 18" on center each way and doweling into existing concrete, thickness to be 6". Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
52. Concrete pads at compactors and bins.
53. Concrete sub-surface slab at the playground area under the rubber finish surface by the playground equipment contractor. Surrounding concrete curbs and flatwork to the playground equipment by the Site Concrete Contractor, includes preparing/restoring the subgrade on the interior side of the curb for others.
54. Concrete sections above light pole footings adjacent to site paving as shown in details 2 & 3/E-0.06.
55. **Contractor shall install all metal railing sleeves into concrete. 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.**

#### **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. Light pole concrete bases/standards (By Electrical Contractor)
2. Playground Equipment Footings (By Owner)

3. Fence and Gate Post Footings (By Fencing Contractor)
4. Flagpoles (by General Package A Contractor)
5. Netting Pole Footings (by General Package A Contractor)
6. Ballfield Pole Footings (by Owner)
7. Foundations for site masonry (by Masonry contractor)
8. Foundations for tensioned fabric shade structures (by General Package A Contractor)
9. Foundations for scoreboards (by General Package A Contractor)
10. Foundations for KeyCode Media digital video board (by Structural Concrete Contractor)



## **SCOPE OF WORK**

### **CATEGORY: BC04 Concrete: South Site Concrete**

#### **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

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

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##### **1.02 Relevant Technical Specifications Sections:**

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03 20 00 – Concrete Reinforcing

03 21 00 – Reinforcing Bars

03 30 00.01 – Cast-In-Place Concrete (Site)

03 45 00 – Architectural Precast Concrete

03 45 00.01 – Architectural Precast Concrete

31 23 00 – Excavation and Fill (As It Applies)

32 13 13 – Concrete Paving

#### **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.
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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.
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  - F. Contractor to review 01 64 00 for additional relevant information.
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### **PART 3 - TRADE SPECIFIC INCLUSIONS:**

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2. All foundations for all site items unless specifically excluded.
3. Provide shop drawings and schedule showing drill and pour sequence.
4. Gravel backfill at top of piles to protect reinforcement during grading operations.
5. Temporary plywood collar around pile hole. Top of piles to be cast/sleeved/formed as to not have over pour and be able to "plug in" to the bottom of the pile caps.
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11. Detectable warning surfaces/truncated domes at all concrete paved conditions.
12. Refer to all plans for additional site paving scope information.
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  - B. Bollards and/or bollard sleeve and footing. Fill bollard with concrete.
14. All joint sealant at concrete related joints and/or where concrete abuts an adjacent surface.
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16. Mow curbs beneath site fencing.
17. Mow curbs as noted at the tops of circular foundations (reference S-5 for an example).

18. Concrete Stage (ref. detail 1/L-2.40).
19. Washout bins.
20. Cast-in-place concrete seat wall caps.
21. Art sculpture (whistle, soccer ball, and baseball) foundations.

**Reinforcement:**

22. All steel reinforcing for all structural and non-structural building related foundations, slab on grade, decks, mechanical pads, and walls including welded wire mesh and all reinforcing accessories.
23. Reinforcing bar and welded wire fabric for site work including but not limited to flatwork, concrete paving, thickened edge, equipment and housekeeping pads, sidewalks, ramps, stairs/steps, curbs, gutters, swales, approaches, planter walls, site walls, seat walls, light bollards, steel pipe bollards, monument signs, equipment pads, light pole bases and cages, concrete and masonry footings and foundations.
24. Rebar Welding:
  - A. Rebar greater than 6'-0" that welds to structural steel.
  - B. Rebar less than 6'-0" and welds to structural steel is by others.
  - C. All other rebar welding where noted.
  - D. Should Contractor elect to butt weld rebar, Contractor shall be responsible for all cost associated with the necessary approval and associated delays.
25. Unload and hoist reinforcing. Coordinate hoisting of elevated deck reinforcement with Structural Steel Contractor. If Steel Contractor's crane is not on-site, hoisting of reinforcement is by Concrete Contractor.
26. Rebar splice lengths shall take into consideration the required starter walls so that appropriate splice lengths are maintained. Coordinate footing elevations and stem wall heights with concrete and masonry contractors.
27. All dowels, smooth or speed dowels and epoxy dowels. Smooth/slip dowels shall be cut smooth with a saw and will not be sheared. Drill dowel where necessary grease, slip dowel sleeve, and epoxy as required.

**Miscellaneous Scope of Work and Coordination:**

28. Concrete Contractor to receive building pad and site area subgrade at  $\pm 0.10'$ . Concrete Contractor shall fine grade for concrete installation. Beginning of installation means that Concrete Contractor accepts the conditions and grades of the existing subgrade.
  - A. Any revisions to the subgrade elevations, after acceptance will be at the expense of this Contractor. All cost associated to remove/repair/replace work installed under this scope of work shall be the responsibility of this Contractor.
  - B. Contractor shall maintain the subgrade elevations as they were provided.
  - C. Contractor shall be responsible to legally remove any remaining spoils from the fine grading operation.
29. Excavate all work included in this scope including, recesses, depressions, thickened edges, foundations, footings, and walls. Backfill and compact to subgrade elevation.
30. All necessary formwork.
31. Protect excavated footings. Maintain excavations, staging areas, and access by dewatering / pumping water and remove mud as well as restoring compaction.

- A. Contractor may elect to install a rat slab at bottom of footing as their means and methods in protecting the integrity of the footing bottom.
  - B. Any footing restoration shall commence immediately as not to impact the schedule.
32. Crushed Aggregate Base and/or sand under site concrete work where noted or specified.
33. Sandblasting and/or use other means as necessary to ensure reinforcing is in an acceptable condition before concrete pour.
34. Provide rough surface condition where concrete abuts an adjacent material as noted.
35. Subgrade at site stairs will be a straight grade from upper subgrade to the lower subgrade by the Grading Contractor. Any fine grading required to achieve the necessary subgrade for the stairs is by the Concrete Contractor. Includes backfill of walls as necessary to achieve finish grade.
36. Sawcut or tool of expansion joints as required by the drawings, specifications, and American Concrete Institute (ACI). Provide shop drawings for all construction and control joints prior to pouring concrete.
37. Remove debris from footings, SOG substrates before pours.
38. Install and maintain rebar caps, during the installation of rebar and/or until permanent finish such as concrete or masonry have been installed.
39. Patch and sack (smooth rubbed finish) all exposed concrete to match designed finishes. Sack all concrete foundation walls that are exposed 2" and greater between the finish surface and the building finish; regardless, if shown on not. Trowel on cement finish will not be allowed.
40. Excess spoils generated by this scope of work shall be placed at an on-site location as determined and approved by the Construction Manager. Protect spoils according to SWPPP requirements until they have been located to the determined location. Once the spoils have been located to a common site location, they shall be the responsibility of others to maintain.
41. Areas to receive waterproofing shall be formed or finished to have a smooth and uniform surface for the application of the waterproofing. This includes all necessary grinding and patching of form-tie/shape-tie holes.
42. Integral colors and finishes as noted or specified.
43. Sealer finish where noted.
44. Forward shop drawings showing all necessary pour sequences for review and approval.
45. Provide a minimum 6' x 6' mock-up:
- A. Each concrete finish including color, joints, and flatness; regardless, if specified or not for approval by Architect/Owner.
  - B. Concrete Contractor to maintain mock-up through the duration of the project, as well as remove and legally dispose.
46. Coordinate with Grading Contractor for layback of safety slopes necessary for the construction of retaining walls. Grading Contractor shall complete the grading and fill of the layback area, only after completion of the wall and/or retaining structure. Concrete Contractor shall backfill all other items created by this scope, including foundations, curbs, walls, and planters.

47. Includes all pre molded joint fillers filled with non-shrink caulk and glaze. Provide sand casted finish at the direction of the Construction Manager whether shown or not. Includes all caulking/sealant at site concrete terminating against face of building.
48. Upon completion of the work and after punchlist corrections have been made broom sweep and power-wash all concrete surfaces. Includes managing water run-off to avoid flooding adjacent areas.
49. 400 Journeyman hours of labor to be used at the discretion of the Construction Manager, provide SOV line item showing allowance, any unused hours will be returned to the owner upon project completion.
  - A. \$15,000 of materials to be provided for the above labor if required.
50. Demo, remove, haul and dispose of 300LF of installed curb and gutter. Provide an additional 300LF of curb and gutter replacement. Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
51. Demo, remove, haul and dispose of 2,500 square feet of installed concrete flatwork up to 8" in thickness. Provide an additional 2,500 square feet of concrete flatwork replacement, include #4 reinforcing bar 18" on center each way and doweling into existing concrete, thickness to be 6". Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
52. Concrete pads at compactors and bins.
53. Concrete sub-surface slab at the playground area under the rubber finish surface by the playground equipment contractor. Surrounding concrete curbs and flatwork to the playground equipment by the Site Concrete Contractor, includes preparing/restoring the subgrade on the interior side of the curb for others.
54. Concrete sections above light pole footings adjacent to site paving as shown in details 2 & 3/E-0.06.
55. **Contractor shall install all metal railing sleeves into concrete. 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.**

#### **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. Light pole concrete bases/standards (By Electrical Contractor)
2. Playground Equipment Footings (By Owner)
3. Fence and Gate Post Footings (By Fencing Contractor)
4. Flagpoles (by General Package A Contractor)
5. Netting Pole Footings (by General Package A Contractor)
6. Ballfield Pole Footings (by Owner)

7. Foundations for site masonry (by Masonry contractor)
8. Foundations for tensioned fabric shade structures (by General Package A Contractor)
9. Foundations for scoreboards (by General Package A Contractor)
10. Foundations for KeyCode Media digital video board (by Structural Concrete Contractor)

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## **SCOPE OF WORK**

### **CATEGORY: BC05 Concrete: East Site Concrete**

#### **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 10 00 – Concrete Forms and Accessories

03 20 00 – Concrete Reinforcing

03 21 00 – Reinforcing Bars

03 30 00.01 – Cast-In-Place Concrete (Site)

03 45 00 – Architectural Precast Concrete

03 45 00.01 – Architectural Precast Concrete

31 23 00 – Excavation and Fill (As It Applies)

32 13 13 – Concrete Paving

#### **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:**

#### **Building Related Concrete:**

1. Bottom stair landings at buildings.

#### **Drilled Caissons / Piles / Foundations:**

2. All foundations for all site items unless specifically excluded.
3. Provide shop drawings and schedule showing drill and pour sequence.
4. Gravel backfill at top of piles to protect reinforcement during grading operations.
5. Temporary plywood collar around pile hole. Top of piles to be cast/sleeved/formed as to not have over pour and be able to "plug in" to the bottom of the pile caps.
6. Restore grade to +/- .10'.
7. Remove all drilled spoils.
8. Concrete foundations and bases for all signage in the W-sheets.

#### **Site Related Concrete:**

9. All site and off-site concrete (structural or non-structural) including but not limited to sidewalks, handicap ramps, landings, flatwork, stairs, curbs, curb & gutters, swales, driveway approaches, substrate, steel and concrete bollard bases, site walls, seat walls, concrete CIP benches, equipment foundations, housekeeping and mechanical pads, thickened edges, and mow curb/ strips.
10. All survey for this scope of work including establishing all control points from benchmarks.
11. Detectable warning surfaces/truncated domes at all concrete paved conditions.
12. Refer to all plans for additional site paving scope information.
13. Install FOB:
  - A. Handrail sleeves. Concrete Contractor has handrail footings.
  - B. Bollards and/or bollard sleeve and footing. Fill bollard with concrete.
14. All joint sealant at concrete related joints and/or where concrete abuts an adjacent surface.
15. Terraced seating (reference 1/L-2.20 and 1/L-2.16).
16. Mow curbs beneath site fencing.
17. Mow curbs as noted at the tops of circular foundations (reference S-5 for an example).
18. Concrete Stage (ref. detail 1/L-2.40).

19. Washout bins.
20. Cast-in-place concrete seat wall caps.
21. Art sculpture (whistle, soccer ball, and baseball) foundations.

**Reinforcement:**

22. All steel reinforcing for all structural and non-structural building related foundations, slab on grade, decks, mechanical pads, and walls including welded wire mesh and all reinforcing accessories.
23. Reinforcing bar and welded wire fabric for site work including but not limited to flatwork, concrete paving, thickened edge, equipment and housekeeping pads, sidewalks, ramps, stairs/steps, curbs, gutters, swales, approaches, planter walls, site walls, seat walls, light bollards, steel pipe bollards, monument signs, equipment pads, light pole bases and cages, concrete and masonry footings and foundations.
24. Rebar Welding:
  - A. Rebar greater than 6'-0" that welds to structural steel.
  - B. Rebar less than 6'-0" and welds to structural steel is by others.
  - C. All other rebar welding where noted.
  - D. Should Contractor elect to butt weld rebar, Contractor shall be responsible for all cost associated with the necessary approval and associated delays.
25. Unload and hoist reinforcing. Coordinate hoisting of elevated deck reinforcement with Structural Steel Contractor. If Steel Contractor's crane is not on-site, hoisting of reinforcement is by Concrete Contractor.
26. Rebar splice lengths shall take into consideration the required starter walls so that appropriate splice lengths are maintained. Coordinate footing elevations and stem wall heights with concrete and masonry contractors.
27. All dowels, smooth or speed dowels and epoxy dowels. Smooth/slip dowels shall be cut smooth with a saw and will not be sheared. Drill dowel where necessary grease, slip dowel sleeve, and epoxy as required.

**Miscellaneous Scope of Work and Coordination:**

28. Concrete Contractor to receive building pad and site area subgrade at  $\pm 0.10'$ . Concrete Contractor shall fine grade for concrete installation. Beginning of installation means that Concrete Contractor accepts the conditions and grades of the existing subgrade.
  - A. Any revisions to the subgrade elevations, after acceptance will be at the expense of this Contractor. All cost associated to remove/repair/replace work installed under this scope of work shall be the responsibility of this Contractor.
  - B. Contractor shall maintain the subgrade elevations as they were provided.
  - C. Contractor shall be responsible to legally remove any remaining spoils from the fine grading operation.
29. Excavate all work included in this scope including, recesses, depressions, thickened edges, foundations, footings, and walls. Backfill and compact to subgrade elevation.
30. All necessary formwork.
31. Protect excavated footings. Maintain excavations, staging areas, and access by dewatering / pumping water and remove mud as well as restoring compaction.
  - A. Contractor may elect to install a rat slab at bottom of footing as their means and methods in protecting the integrity of the footing bottom.
  - B. Any footing restoration shall commence immediately as not to impact the schedule.

32. Crushed Aggregate Base and/or sand under site concrete work where noted or specified.
33. Sandblasting and/or use other means as necessary to ensure reinforcing is in an acceptable condition before concrete pour.
34. Provide rough surface condition where concrete abuts an adjacent material as noted.
35. Subgrade at site stairs will be a straight grade from upper subgrade to the lower subgrade by the Grading Contractor. Any fine grading required to achieve the necessary subgrade for the stairs is by the Concrete Contractor. Includes backfill of walls as necessary to achieve finish grade.
36. Sawcut or tool of expansion joints as required by the drawings, specifications, and American Concrete Institute (ACI). Provide shop drawings for all construction and control joints prior to pouring concrete.
37. Remove debris from footings, SOG substrates before pours.
38. Install and maintain rebar caps, during the installation of rebar and/or until permanent finish such as concrete or masonry have been installed.
39. Patch and sack (smooth rubbed finish) all exposed concrete to match designed finishes. Sack all concrete foundation walls that are exposed 2" and greater between the finish surface and the building finish; regardless, if shown on not. Trowel on cement finish will not be allowed.
40. Excess spoils generated by this scope of work shall be placed at an on-site location as determined and approved by the Construction Manager. Protect spoils according to SWPPP requirements until they have been located to the determined location. Once the spoils have been located to a common site location, they shall be the responsibility of others to maintain.
41. Areas to receive waterproofing shall be formed or finished to have a smooth and uniform surface for the application of the waterproofing. This includes all necessary grinding and patching of form-tie/shape-tie holes.
42. Integral colors and finishes as noted or specified.
43. Sealer finish where noted.
44. Forward shop drawings showing all necessary pour sequences for review and approval.
45. Provide a minimum 6' x 6' mock-up:
  - A. Each concrete finish including color, joints, and flatness; regardless, if specified or not for approval by Architect/Owner.
  - B. Concrete Contractor to maintain mock-up through the duration of the project, as well as remove and legally dispose.
46. Coordinate with Grading Contractor for layback of safety slopes necessary for the construction of retaining walls. Grading Contractor shall complete the grading and fill of the layback area, only after completion of the wall and/or retaining structure. Concrete Contractor shall backfill all other items created by this scope, including foundations, curbs, walls, and planters.
47. Includes all pre molded joint fillers filled with non-shrink caulk and glaze. Provide sand casted finish at the direction of the Construction Manager whether shown or not. Includes all caulking/sealant at site concrete terminating against face of building.

48. Upon completion of the work and after punchlist corrections have been made broom sweep and power-wash all concrete surfaces. Includes managing water run-off to avoid flooding adjacent areas.
49. 400 Journeyman hours of labor to be used at the discretion of the Construction Manager, provide SOV line item showing allowance, any unused hours will be returned to the owner upon project completion.
  - A. \$15,000 of materials to be provided for the above labor if required.
50. Demo, remove, haul and dispose of 300LF of installed curb and gutter. Provide an additional 300LF of curb and gutter replacement. Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
51. Demo, remove, haul and dispose of 2,500 square feet of installed concrete flatwork up to 8" in thickness. Provide an additional 2,500 square feet of concrete flatwork replacement, include #4 reinforcing bar 18" on center each way and doweling into existing concrete, thickness to be 6". Provide a separate SOV line item for this work, any unused portion of this allowance will be credited back to the owner.
52. Concrete pads at compactors and bins.
53. Concrete sub-surface slab at the playground area under the rubber finish surface by the playground equipment contractor. Surrounding concrete curbs and flatwork to the playground equipment by the Site Concrete Contractor, includes preparing/restoring the subgrade on the interior side of the curb for others.
54. Concrete sections above light pole footings adjacent to site paving as shown in details 2 & 3/E-0.06.
- 55. Contractor shall install all metal railing sleeves into concrete. 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.**

#### **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. Light pole concrete bases/standards (By Electrical Contractor)
2. Playground Equipment Footings (By Owner)
3. Fence and Gate Post Footings (By Fencing Contractor)
4. Flagpoles (by General Package A Contractor)
5. Netting Pole Footings (by General Package A Contractor)
6. Ballfield Pole Footings (by Owner)
7. Foundations for site masonry (by Masonry contractor)
8. Foundations for tensioned fabric shade structures (by General Package A Contractor)
9. Foundations for scoreboards (by General Package A Contractor)
10. Foundations for KeyCode Media digital video board (by Structural Concrete Contractor)

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## **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,
36. All exposed CMU shall be integral color, split face.
37. Grout infill in between double retaining/seat walls per 10/S-3.
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-019.
43. CIP concrete seat wall 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.**

#### **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.

# **SCOPE OF WORK**

## **CATEGORY: BC12 Glazing**

### **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:**

08 80 00 – Glazing

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:**

#### **Glass & Glazing:**

1. All glass and glazing such as tempered, tinted, fixed & operative window systems, framed & unframed pass throughs, hollow metal vision lights including accessories.

2. (1) Damaged glass panel replacement.

### **3. Pass-Thru service windows.**

#### **Miscellaneous Scope of Work and Coordination:**

4. Provide the necessary material to separate differing metals to alleviate dielectric condition.
5. Joint & acoustical sealants and backer rod in accordance with specifications. Provide joint sealant at conditions where the aluminum system abuts adjacent finished surfaces.
6. Beginning of work constitutes acceptance of substrate. Any storefront required to be removed for corrective substrate work shall be at the expense of this Contractor.

#### **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. Door hardware for hollow metal and wood doors (by Door Contractor)
2. Door hardware for gates (by Fencing Contractor)

## **SCOPE OF WORK**

### **CATEGORY: BC15 Signage**

#### **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:**

07 90 00 – Joint Protection (as it applies)

07 92 00 – Joint Sealants (as it applies)

09 90 00 – Painting and Coating (as it applies)

10 14 00 – Signage

#### **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. Interior and exterior signage.
2. Plastic, tactile, room identification, exit signage and non-tactile signs.

3. Directory signs.
4. Dimensional metal and/or aluminum letters, numbers and artwork. Provide shop drawings for backing coordination.
5. Welding, mounting hardware and adhesives required for a complete assembly.
6. Signage installed on glass shall have a similar blank piece on the opposite side of the glass and directly behind the sign(s) to conceal any adhesives/tapes used during installation.
7. (3) Large Art Sculptures. Whistle, Baseball and Soccer Sculptures in their entirety.
  - A. Coordinate with Electrical contractor for conduit, power, and low voltage requirements.
  - B. Footing by Structural Concrete Contractor.
8. Wayfinding signage shown on the W sheets.
  - A. Footings by Site Concrete Contractors.
  - B. Coordinate with Electrical contractor for conduit, power, and low voltage requirements.
  - C. CMU block/veneer by Masonry Contractor.
9. Steel Trellis Structures with Gateway Identity Signage.
  - A. Including cast-in-place cap with smooth finish, dome light fixtures & LED light up light embedded into concrete cap.
  - B. CMU pilasters by others
  - C. Coordinate with Electrical contractor for conduit requirements.
10. Aluminum Flat Cut Out Artwork & perforated graphic walls.
11. Fence Toppers **as shown on E10 & E11/ Sheet W-16**. Coordinate fence attachment with fencing contractor prior to fabrication.
  - A. Provide a sample of each of the 5 symbols.
12. Graphic walls including all aluminum, casters and bench seating.
13. Display Walls in their entirety.
  - A. Coordinate conduit and power requirements with electrical contractor.
14. Provide mockups for all signage types prior to fabrication.
  - A. Full size for smaller signage.
  - B. Partial samples for larger signage.
15. Signage Quantities are shown on W-01 for reference only. Final quantities shall be determined based off of review of the plans.
16. Recycled water use signs (ref. T/L-4.02). If quantities are not shown on the plans, include in the base bid for (100) signs.
17. Wall mounted banner systems

**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. ADA parking, Van accessibility and EV parking signs as noted on type D21, D22 on W-08 & D23 on W-09 (by Earthwork Contractor)

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# **SCOPE OF WORK**

## **CATEGORY: BC 17 General Package A**

### **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 10 00 – Concrete Forms and Accessories

03 20 00 – Concrete Reinforcing

03 21 00 – Reinforcing Bars.

03 30 00.01 – Cast-In-Place Concrete

05 05 13 – Shop Applied Coatings for Metal (Tnemec and Zinc Priming)

05 12 00.01 – Structural Steel Framing

05 50 00.01 – Miscellaneous Metals

08 33 00 – Coiling Doors

08 33 13 – Coiling Counter Doors

09 30 00 – Tiling

09 65 00 – Resilient Flooring and Base

09 77 00 – Fiberglass Reinforced Plastic Panels

09 90 00 – Painting and Coating

09 94 00 – Powder Coating

09 97 13 – Steel Coatings

10 21 00 – Toilet Partitions

10 28 00 – Toilet, Bath, & Laundry Accessories

10 40 00 – Identifying Devices

10 52 00 – Fire Protection Specialties

10 75 00 – Flagpoles

10 82 00 – Louvers, Grilles, & Screens

11 68 43 – Exterior Scoreboards

11 82 00 – Facility Solid Waste Handling Equipment

14 24 00 – Hydraulic Elevators

32 33 00 – Site Furnishings

03 30 00 – Cast in Place Concrete (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:**

#### **Overhead Coiling Doors and Coiling Counter Doors**

1. All manual and automatic overhead coiling/roll-up and coiling counter doors assemblies.
2. All gauged and/or steel dimensioned jambs/angles and related hardware as to attach to the building structure.
3. Includes welding to structural support.
4. All door operators and controls. Power will be provided to a junction box adjacent to operator by others. Connection from this junction box to door operator is by this Contractor. Any conduit, boxes, and/or wiring for connection to operator or controls will be by this Contractor.

#### **Toilet Compartments, Toilet, Bath, and Laundry Accessories:**

5. Toilet compartments, urinal and privacy screen partitions with overhead bracing.
6. Required attachments, hardware, and appurtenances for a complete installation.
7. Toilet and restroom accessories identified in restroom and non-restroom facilities, unless noted otherwise.
8. Mirrors as identified.
9. Submit shop drawings to coordinate backing requirement and ADA clearance requirements.
10. Repair damage to adjacent surfaces during installation. Remove pencil marks and chalk lines used for installation.

**Emergency Key Cabinets:**

11. Emergency key cabinet(s), Knox boxes. Coordinate backing requirements with the Masonry and Fencing Contractors to properly locate backing and anchor points. Provide 5 additional Knox Boxes to be installed in separate locations.

**Fire Protection Specialties:**

12. Interior and exterior fire extinguishers and cabinets including mounting accessories.
13. Fire extinguishers are to be installed just prior to the turn-over of the building as to prevent theft. Do not install fire extinguishers until directed to do so by the Construction Manager.
14. Provide (20) 5lb 'ABC' multipurpose fire extinguishers for use during construction. Provide (20) 22"x22"x34" red plastic portable fire extinguishers stands delivered to the Construction Manager.

**Lockers:**

15. All lockers including accessories and appurtenances for a complete assembly.
16. All benches and pedestals.
17. When concrete bases are shown, they shall be by this Contractor. Provide shop drawings for base size and layout.

**Elevators:**

18. Elevator cab, related finishes, hoistway entrance, car enclosures, related controls, signals, signage, devices and appurtenances for a complete code compliant operative assembly.
19. Refer to the Geotechnical Report for soil type and shall determine the necessary means and methods for proper installation.
20. Connect elevator control system with the building the fire alarm system. Provide a "firefighter's option" and emergency operation / fire recall circuiting as required.
21. Coordinate with any access key card system and any programming or bridge wiring to ensure access key card system function with the elevator.
22. Conduit and telephone conductors will be provided to elevator equipment room by others. Termination of wires at the controller.
23. Pathway, hydraulic lines, conduit, and conductors from the elevator machine room to the elevator and terminations of same. Includes underground piping where noted or required.
24. Fire caulking at rated wall and/or ceiling penetrations.
25. Includes fire treated plywood substrate for finish flooring. Coordinate with Construction Manager for proper thicknesses.
26. Coordinate, schedule, and participate in inspection with State inspector. Elevator Contractor to conduct and provide an inspection check list outlining outstanding items that are required to pass inspection a minimum of three (3) weeks prior to scheduling State inspection and participate in a field walk with Construction Manager to discuss items and coordinate necessary work.
27. Elevator pit ladder and elevator car sill angle.

28. Provide temporary generated power for elevator installation as permanent power may not be available at the time of the scheduled elevator installation.
29. Roadways will be provided as shown on Exhibit B – logistics plan. This contractor will be responsible for grading / metal plates as needed to provide suitable pathway from the road to the building for delivery of elevator components.
30. Include (24) hours of operator time to run the elevator prior to final turn-over. Includes (6) mobilizations at a minimum of (4) hours each.
31. Floor protection to be heavy-duty Rosin Paper fully taped with 2 layers.
32. Hooks and wall protection blankets whether shown or not.

**Ceramic Tile / Quarry Tile:**

33. Ceramic floor, base, wall tiles, marble thresholds, mortar setting beds, grout, and accessories for a complete installation.
34. Cement mortar bed, waterproof membrane and reinforcement.
35. Joint sealers at ceramic tile expansion joints, floor to wall base transitions as required, and to adjacent finished materials.
36. Sand and/or epoxy grout where noted.
37. Grout sealer.
38. Mortar and mesh tape all cement board joints and prepare substrate for uniformity and flatness.
39. Cover and protect all floor drains during tile installation. Verify with Construction Manager that drains are clear prior to start of tile work and again after completion of tile work.
40. Coordinate location and finished height of floor drains in the tile floors with Plumbing and Concrete Contractors. Obtain positive drainage slope while working with the limitation of tile size and ADA cross slopes. Obtain approval from Architect to cut tiles if necessary to obtain proper drainage slope.
41. Beginning of installation means Contractor accepts the condition of the existing substrate. If any repairs and/or replacement are required to the substrate, all cost associated to remove and/or replace installed tile shall be at the expense of this Contractor.
42. Shower pan / fluid applied waterproofing at floor tile conditions. Extend waterproofing up wall.
43. Ceramic flooring in elevator cab, including substrate as necessary for flooring to align with the sill.
44. Replace “hollow sounding” tile and/or blemished/defective/uneven tiles. All replacements or repairs are to be made prior to the application of any grout sealants or the installation of any accessories or equipment. Coordination of the review of the installation is the responsibility of this Contractor.
45. Where marble thresholds are not shown, install metal transition; regardless, if shown or not.
46. Floor protection to be heavy-duty Rosin Paper fully taped with 2 layers.
47. 5% extra stock of each tile type regardless if noted or not.

**Finish Flooring:**

48. All flooring activities are to be done on off hours being second shift from 3pm-11pm or on a Saturday.
49. All vinyl and resilient related flooring, and resilient base.
50. All related accessories, transitions and adhesives.
51. Joint sealants/caulking where flooring abuts adjacent finished surfaces, in accordance with applicable specification section.
52. Coordinate heights of proposed floor finishes with adjacent floor surface elevations. Float transitions and/or provide transition strips as required and/or shown.
53. Install resilient base at casework.
54. Flooring base shall be rolled/continuous base.
55. Confirm floor flatness no later than three (3) months before beginning of flooring installation. Advise Construction Manager if floor flatness is not in accordance with flooring specifications.
56. Conduct moisture and alkalinity testing prior to installation. Notify Construction Manager of any tests that do not meet flooring or adhesive manufacturers recommendations. Include 14 additional tests to be used per the direction of the Construction Manager.
57. All floor preparation and patching required for proper floor installation.
58. Separate move-ins to install flooring and base in mechanical, electrical and data rooms will be required prior to the installation of mechanical, electrical, AV/IT, and/or plumbing equipment.
59. Sweep and vacuum substrate prior to flooring finish installation. Protect floor with a heavy, non-asphalt, non-staining type building paper after installation, unless directed otherwise by the Construction Manager. Contractor shall provide their own barricades and/or signage to limit traffic and damage to areas being installed or curing.
60. Beginning of installation means Contractor accepts the condition of the existing substrate. If any repairs and/or replacement is required to the substrate, all cost associated to remove and/or replace installed flooring shall be at the expense of this Contractor.
61. Provide manufacture's recommended adhesive to ensure that the warranty will be accepted by flooring manufacturer.
62. Floor protection to be heavy-duty Rosin Paper fully taped with 2 layers.
63. Provide a moisture barrier (LABPOX MVB Fast by LabSurface or equal) at ground floor concrete slabs scheduled to receive flooring. Ensure that the material will be compatible with the finish flooring / adhesive. Provide submittal for approval.  
Test the floor to confirm results are within the parameters of the flooring/adhesives. If within the parameters this line item on the SOV will be credited back to the Owner. If the test shows the need for the moisture barrier proceed to install per manufacturer's instructions. Testing shall be done early enough so that the barrier can be delivered and installed timely without delaying the installation of the finish flooring.
64. 5% extra stock of each carpet type regardless if noted or not.

**Fiberglass Reinforced Plastic Panels:**

65. All FRP as noted including but not limited to behind janitor sinks in plumbing chase.

**Louvers, Grilles & Screen:**

66. Louvers shown in window schedule.

67. Coordinate rough opening dimensions and locations with masonry / rough carpentry contractor

**Facility Solid Waste Handling Equipment:**

68. (3) 30 cubic yard compactors including mounting hardware as required. Electrical connections by this Contractor.

69. 40 cubic yard trash compactors as shown. Electrical connections by this Contractor.

**Site Furnishings:**

70. Reference Landscape drawing for Owner supplied – Contractor installed furnishings. Contractor shall supply all items as noted, includes receiving onsite deliveries, inventory and stockpiling of all items. Discard all shipping and packing from the site.

71. Furnish and install bike racks regardless of what is shown.

72. Confirm layout with exact dimensions prior to layout.

73. Coordinate all attachments / details / layout with site concrete contractor.

**Miscellaneous Scope of Work and Coordination:**

74. Final Cleaning:

A. Rough Cleaning:

- i. Remove interior debris.
- ii. General overall wipe down.
- iii. Sweep all floors.
- iv. Dust all overhead ductwork, pipes, conduits prior to ceiling installation

B. Final Cleaning:

i. Interior:

- a. Dust, vacuum, wet-clean, mopping, polish, scrub, wipe down all vertical and horizontal surfaces regardless of the finish.
- b. Polish all hard surface flooring. Polishing shall be in accordance with respective manufacturer's recommendations.
- c. Dust and polish light fixtures, devices, plumbing fixtures, projectors, and restroom fixtures & partitions.
- d. Remove debris and dust from casework cabinets and drawers.

ii. Exterior:

- a. Wash windows.
- b. Wash down the buildings.
- c. Power wash all sidewalks around the buildings 100' out.
- d. Dust and polish drinking fountain.
- e. Dust and polish light bollards and wall lighting.

C. Include in base bid an additional (200) hours for cleaning at the discretion of the Construction Manager. Man-hours not used will be credited back to the Owner. The man-hours shall NOT be used towards poor workmanship or contract work not in accordance with the contract documents.

75. Stair Tower:

A. Provide engineered-OSHA compliant exterior temporary stair access towers at each 2 story building.



- B. Stair shall extend from finish surface to the roof.
  - C. Stair system to remain until roofing is complete. Provide security structure/assembly with lock around base of stair to prevent public to access. Maintain security structure/assembly until stair is removed.
  - D. Contractor to provide a “green” inspection tag. Contractor’s Competent Person shall inspect daily prior to use. Contractor to correct any hazards immediately, advise the Construction Manager and prevent stair tower usage until hazard is corrected and signed off by the Contractor’s Competent Person.
76. Self-powered portable welder unit as required for Contractor’s work. Temporary power will not be available for welding operations.
77. Sports padding and all attachments.
78. Fiber reinforced molded lumber complete with supporting structure, including structural steel, miscellaneous steel, and foundation.
79. Pitchtop 6 cubic yard bins.
80. In addition to the Pitchtop bins shown on the drawings, provide (2) additional Pitchtop 3 cubic yard bins. Deliver to Construction Manager.
81. Trash/Recycle receptacles.
82. Pet waste stations. Provide unit with filled waste bags and 5 additional refills to be handed over as extra stock.
83. West Coast Netting sports netting and polypropylene windscreens. Include all excavation, reinforcement, concrete foundations, and appurtenances necessary for complete installation. Includes hot rolled structural steel channel by Industrial Metal Supply Company. Include batter’s eye netting. Includes coordination with the Ornamental Fencing Contractor for interfacing into their system inclusive of provisions to accommodate the fencing system at no additional cost whether shown or not.
84. Flagpoles and flags, includes all excavation, reinforcement, concrete foundations, and lightning ground rods.
85. Shipping containers. Includes design and furnishings as shown in detail 2/L-230. Includes coiling doors, interior partitions, and locks. Provide layout drawings for approval.
86. All “Southern Bleacher” bleachers/benches and accessories.
87. Bat racks with 30 cubbies in dugouts.
88. (3) helmet wall mounted hooks in dugouts.
89. (2) Chest box storage containers in dugouts.
90. Hollywood 4-way pitching rubber mounds.
91. Scoreboards, including support structure, includes all excavation, reinforcement, concrete foundations,, and final electrical connections. Provide programing and coordination for network integration on scoring.
92. Weekly professional cleanings for the construction office trailers (1 single wide and 1 double wide) Cleaning to include: dusting all surfaces and windows; restrooms (water closets, sinks, mirrors); Emptying trash receptacles; vacuuming all carpets and sweeping, mopping VCT floors. Cleanings to occur on Friday’s from 6-am to 7am.

93. (20) Cerious Composites carbon fiber hardhats with titanium hardware. Colors and finishes to be selected at a later time by the Construction Manager.
94. (30) Heatwave VISE Z-87 Safety Glasses. Frame: Black. Polarized Lenses: (20) Black and (10) Galaxy to be delivered to Construction Manager.
95. (10) Philips Heartstart Onsite-M5066A AED defibrillators and (10) outdoor AED wall cabinets to be wall mounted. Location to be selected at a later time.
96. (8) Irish Setter MudTrek Full Fit Rubber Boots for Men. Sizes to be selected at a later by the Construction Manager.
97. (2) Sitka Back40 Boots. Sizes to be selected at a later by the Construction Manager.
98. (4) Sitka Dew Point Pants. Sizes to be selected at a later by the Construction Manager.
99. (4) Sitka Dew Point Jackets. Sizes to be selected at a later by the Construction Manager.
100. (2) Sitka Delta PRO Wading Jackets. Sizes to be selected at a later by the Construction Manager.
101. (3,500) hours of a carpenter Journeyman to be used full time at the discretion of the Construction Manager. These Journeymen will report daily and take direction daily from the construction manager. Journeymen to be forklift certified, first aid certified. This line item will be used on a time tracked basis based on verified labor rates. Any time not used will be credited back based on the unused hours at the verified labor rate.
102. In the Construction Managers office trailer provide a 25' x 8' wood framed wall, insulated, with both sides finished in smooth drywall and painted white. Provide 4" brown rubber base on both sides of the wall. Provide a hollow metal door frame, solid wood door and finish hardware. Paint frame and door brown or provide brown factory finish. Provide painted quarter round trim around the perimeter of the wall on both sides. Re-wire lighting circuit to operate 2 lights independently with an added wall light switch.
- 103. Procure (3) water meters from the City to be installed on 3 separate fire hydrants on the surrounding streets. These will act as the primary water source for use by all contractors for the project.**
  - A. Provide a \$500,000 allowance to be used to pay the monthly bills. The use of the allowance monthly will be justified by providing the water utility bill. Any unused cost from this allowance will be credited back to the owner upon completion of the project. No OH&P mark-ups on this allowance.**

#### **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. McNichols perf panels (by Structural Steel Contractor)
2. Louvers in doors (by Doors/Frames/Hardware Contractor)

## **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. ~~and install the 12" Nyoplast basins.~~ The Field Turf Contractor will connect to this capped line ~~basin~~ and will provide all perforated drains and the ~~balance of 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'.**

**Miscellaneous Scope of Work and Coordination:**

22. 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.
23. Pot-hole before trenching to avoid existing utilities and to confirm inverts prior to commencement of any utility installation.
24. 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.
25. 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.
26. 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.
27. 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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## **SCOPE OF WORK**

### **CATEGORY: BC25 Landscaping & Irrigation**

#### **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:**

31 00 00 – Earthwork (as it applies)

31 22 00 – Grading (as it applies)

31 23 00 – Excavation and Fill (as it applies)

32 14 13.13 – Interlocking Precast Concrete Unit Paving

32 15 00 – Decomposed Granite Paving

32 84 00 – Planting Irrigation

32 90 00 – Planting

32 92 23 – Sodding

32 93 44 – Palm Trees

#### **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. All irrigation material and equipment for main and branch piping, drip irrigation, sprinkler heads, bubblers, root watering systems and all related sleeves.
2. All valve types, valve boxes, quick couplers, control wiring, backflow devices, pressure regulators, controllers, controller enclosures, rain sensors, grounding rod, flow sensors, accessories, and appurtenances.
  - A. Electrician will provide line voltage to control devices, all other wiring is by this contractor.
3. Metal enclosure along with footing and/or pad for devices, equipment, and appurtenances.
4. Concrete pads, concrete thrust blocks, concrete encasement, and brick supports to support devices, equipment, and appurtenances.
5. Crushed rock paving, decorative rock, cobblestone paving and decomposed granite as noted.
6. Fine grade from +/-0.2 foot. Grading shall include adjustment for proper drainage. Remove debris and rocks. Roto-till and soil amendments. Provide finish grades in landscape areas as noted in the plans.
7. Pre-planting, weed control, soil amendments, fertilizers, planting materials, and mulch.
8. Filter fabric and weed barrier.
9. Planting vegetation such as trees, shrubs, and ground cover.
10. Landscape edging / headers, staking as noted.
11. Review all plan sheets to become familiar with underground utilities prior to irrigation (main or lateral) and plant material installation.
12. Coordinate sleeves through and under footings, slabs, sidewalks, and paved areas with the Concrete and Paving Contractors.
13. Excess spoils generated under this section shall be removed and legally disposed of by this Contractor.
14. Trenches shall be backfilled and compacted to same elevation as the adjacent surface.
15. Provide laminated control / zone / valve charts.
16. Booster pumps (L-4.03).
17. Any planter pots shown or called out.
18. For each tree planter, prior to planting provide Agronomy soil testing services. Contact Joe Kiefer, Landscape Consultant, CCA for pricing to be included in the base bid.
  - A. 4741 E. Hunter Ave, Unit A  
Anaheim, CA 92807  
Office: 714-282-8777  
Cell: 626-430-1937

19. Tree stakes and tree poles.
20. Root barriers.
21. Washed concrete sand backfill.
22. Geojute netting (ref. note 24 L-6.01).
23. Tree guying (10/L-6.01).
24. Inspection tubes and grates (5/L-6.02).
25. Irrigation pull boxes at mister poles.
- ~~26. Artificial turf in playgrounds and family areas.~~
27. Turf blocks.
28. (90) days of complete landscape maintenance with minimum weekly visits to maintain all irrigation and planting after the Substantial Completion date. all dead planting to be replaced within a 12 month period after the confirmed and owner accepted Substantial Completion date.

**Decorative Pavers:**

29. Decorative pavers (ref. detail 1/L-2.02).
30. Sand bedding layer beneath pavers.
31. Geotextile fabric and compacted base beneath site decorative pavers (ref. detail 1/L-2.02).
32. Epoxy-modified joint stabilizing sealer.
33. Stain-blocking invisible sealer.
- ~~34. Provide 5% extra stock of each paver type and color. Palletize and shrink wrap on pallets delivered to the Construction Manager.~~

**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. Domestic water piping (by Plumbing contractor).
2. Artificial turf at soccer fields and baseball fields. (By Artificial Turf Contractor)
3. **Artificial turf in playgrounds and family areas.**

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