CONSTRUCTION DOCUMENTS
AUGUST 1, 2019

PROJECT SITE

LOCUS MAP

PREPARED BY:
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NOTES
L-0A GALLOWS HILL PARK
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L-0A

GALLOWS HILL PARK
SALEM, MASSACHUSETTS

NOTES
GALLOWS HILL PARK
SALEM, MASSACHUSETTS

CITY OF SALEM, MA

SKATE PARK IMPROVEMENTS

SITE PREPARATION PLAN

SD-1

NOTES:

- SITE WILL BE SECURED USING CITY FENCE AS ANGULAR CONSTRUCTION
- CONTRACTOR TO CONSIDER MOWING SPECIFICITIES AND ACCESS WITH CITY
- ALL MATERIALS TO BE DEPOSITED ON PARKING LOT
- TIME TO CONSTRUCTION, THE CITY OF SALEM WILL LOCK PARKING SLOTS IN THE PARKING LOT AND WILL REMOVE VEHICLES IF NECESSARY TO THE HIGHWAY IN CASE OF DISASTER

EXISTING CHAINLINK TO BE DISCONTINUED BY CITY PRIOR TO STARTING CONTRACT

CONSTRUCTION TRENCHING PROGRESSIVE AND METHODS TO COME AS PART OF SEPARATE PARK IMPROVEMENTS PROJECT
**GENERAL CONSTRUCTION NOTES**

1. All construction shall be accomplished in accordance with the plans and specifications.

2. All construction and testing shall be at the discretion of the City of Eagan, MN as to the type, number, and frequency.

3. Contractor shall call Diggers Hotline at (800) 242-8511 and Owner at least one (1) week prior to start of construction for locating underground utilities.

4. Any detouring of traffic onto city streets shall meet the traffic control requirements of the City of Eagan, MN.

5. Contractor shall cooperate with all utility companies and other contractors working within the limits of this project.

6. Detouring of pedestrians shall be accomplished with adequate signs at a safe location.
SKATE PARK-DESIGN CRITERIA

1.1 PROVIDE SPECIAL STRUCTURAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:

1.1.1 CONCRETE PRIOR TO PLACING QUIKRETE CONCRETE PC 2-35 CONCRETE MIXED TO SPECIFICATION.

1.1.2 BOLTS INSTALLED IN CONCRETE DURING INSTALLATION OF REINFORCING BOLTS TO BE OF BARE STEEL AND DURING INSTALLATION OF BOLTS TO CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED ON THE DRAWINGS.  THE CONTRACTOR SHALL PROVIDEquistrelicr THERMAL ELASTOMERS AND FLEXIBLE RUBBER JOINTS IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED ON THE DRAWINGS.

1.1.3 REINFORCING STEEL: DURING PLACING OF REINFORCING STEEL, FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL CONCRETE MIXES, REINFORCING BARS SHALL BE SECURED TO THE FORM BY STIRRUP WIRE, EPOXY REINFORCEMENT BAR SPLICE PLATES, OR EQUIVALENT.

1.1.4 PLACING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.

1.1.5 PROVIDE SPECIAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:

1.1.6 PLACEMENT OF REINFORCING STEEL.

1.1.7 TAKING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.

1.1.8 BOLTS IN CONCRETE.

1.1.9 PLACING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.

1.1.10 PROVIDE SPECIAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:

1.2 CONCRETE CUBE:

1.2.1 CONCRETE CUBE SHALL BE DESIGNED BY A TESTING LABORATORY AND APPROVED BY THE SKATE PARK ARCHITECT.

1.2.2 CONCRETE CUBE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY AND APPROVED BY THE SKATE PARK ARCHITECT.

1.2.3 CONCRETE CUBE MIX DESIGN: CEMENT, FINE AND COARSE AGGREGATES SHALL BE SELECTED TO DEVELOP THE FULL TENSION STRENGTH OF THE BAR AS DETERMINED BY THE CONTRACTOR.
1. The contractor shall notify the owner and the municipality forty-eight (48) hours prior to the start of construction.

2. The contractor shall indemnify the owner, the engineer, and the municipality, their employees and their agents, etc. from all liability resulting with the construction installation and testing of the work on this project.

3. Site safety shall be the sole responsibility of the contractor.

4. The bidder will be solely responsible for determining the quantities and shall state such quantities in their proposal. The bidder shall also state, as far as can be estimated, the weight of the construction.

5. The contractor is responsible for verifying soil conditions prior to commencement of construction. A geotechnical report is available from the owner. The contractor shall be aware of the recommendations of the geotechnical engineer.

6. The contractor is responsible for determining site conditions prior to construction and shall compare field conditions with the engineering plans.

7. The contractor shall obtain all permits required for the work and conduct work in accordance with the requirements of the permits.

8. The contractor is responsible for field verifying utility information prior to starting construction. The contractor shall contact the states one call utility locate service at 811 to notify local utility providers of the request to start work at the project.

9. No fill shall be placed on a wet or soft subgrade. The subgrade shall be properly seeded and protected. The contractor shall notify the owner and the municipality when any material is placed, unless otherwise noted.

10. All spot elevations and for top of form work, unless otherwise noted.

11. Minimum slope for all concrete finish work shall be 1%. Water shall drain towards direction of flow. All final grades shall be marked by guiding operations to be fine graded.

12. Verify location and depth of all utilities prior to commencing work.

13. Refer to sections and profiles on sheets: SP-4.1 through SP-4.4, for top of forms, and profiles indicated on the plans.

14. Contractor to protect all excavations from soil erosion and water saturation at all times using appropriate construction methods and/ or loose of soil. Failure during construction shall be replaced with appropriate soil compaction and compaction methods to match loss soil.

15. The proposed improvements shall be constructed in accordance with the Massachusetts D.O.T. standard specifications, local ordinances and specifications and recommendations in the geotechnical report.

16. The contractor shall maintain site drainage throughout construction. This may include excavation of temporary ditches or pumping to alleviate ponding water.

17. All fence and other erosion control facilities to be installed prior to construction or any other disturbing activity. The contractor shall be responsible for removing all erosion control facilities once the threat of erosion has passed with the approval of the governing agency.

18. The contractor shall assume sole responsibility for the computations of all grading and for landscape, including utility trench spoil. The contractor shall import or export material as necessary to complete the project.

19. Grading shall consist of clearing and grubbing existing vegetation, existing topsoil, removal of existing pavement of foundations, or existing foundations, to achieve an elevation that is compatible with all proposed work. The contractor must provide payment for pavement materials, site grading, access, and final compaction of the pavement, subgrade, and grading of topsoil.

20. No fill shall be placed on a wet or soft subgrade. The subgrade shall be properly seeded and protected. The contractor shall notify the owner and the municipality when any material is placed, unless otherwise noted.

21. All fill shall be considered structural fill and placed in accordance with the geotechnical report.

22. Topsoil shall be placed to a minimum depth of six (6) inches to be restored with seed and mulch. Contractor shall ensure proper drainage and temporary erosion control measures until final stabilization.

23. Final height and shape of excavation to be verified by landscape architect/skate park designer in the field.

24. All spot elevations and for top of finish work, unless otherwise noted.

25. Minimum slope for all concrete finish work shall be 1%. Water shall drain towards direction of flow. All final grades shall be marked by guiding operations to be fine graded.

26. Verify location and depth of all utilities prior to commencing work.

27. Refer to sections and profiles on sheets: SP-4.1 through SP-4.4, for top of forms, and profiles indicated on the plans.

28. Contractor to protect all excavations from soil erosion and water saturation at all times using appropriate construction methods and/ or loose of soil. Failure during construction shall be replaced with appropriate soil compaction and compaction methods to match loss soil.

29. All final grades of earthwork shall be inspected with templates cut to the specified radii and angles. Contractor to provide surveying equipment for all templates, except for templates used for horizontal control.

30. Contractor to protect all excavations from soil erosion and water saturation at all times using appropriate construction methods and/ or loose of soil. Failure during construction shall be replaced with appropriate soil compaction and compaction methods to match loss soil.

31. Application of a high solids curing compound meeting ASTM C309 should be applied to all exposed concrete surfaces. All concrete is to be cured for 7 days. Exterior concrete shall be air entrained with 4% to 7% air content.

32. Two tests at 7 days and two tests at 28 days. Slump tests to be performed in accordance to CRSI and ACI Manual and standard practices. Reinforcement shall not be less than 0.038" for the proposed light duty concrete (passenger car traffic) 3" of concrete over 4" of crushed aggregate base. Contraction joints shall be sawcut 1.5" deep and be spaced a minimum of 12.0' on centers.

33. Design mix shall be in accordance with ASTM C496.

34. Strength to be a minimum of 2,500 PSI at 24 days for exterior concrete and 3,000 PSI at 24 days for interior concrete.

35. Slump shall not exceed 6" for exterior concrete and 7" for interior concrete.

36. Slump shall be between 2" and 3.5" for the concrete curb and gutter.

37. Exterior concrete shall be air entrained with 6% to 7% air content. No other admixtures shall be used without approval of the owner or local permitting authority.

38. Maximum nominal aggregate size for all exterior concrete shall be 1.25".

39. All concrete flatwork surfaces and concrete curb and gutter shall be constructed in accordance with the design plans. Positive drainage shall be maintained at all times for the proposed improvements.

40. The contractor flatwork construction joints or saw cut joints placed per this specification. The proposed light duty concrete (passenger car traffic) 3" of concrete over 4" of crushed aggregate base and construction joints shall be placed every 4' of curb length or every 18' of gutter length. All exterior concrete shall have a light brown finish unless noted otherwise. A uniform coat of a high solids during compound meeting ASTM C631 should be applied to all exposed concrete surfaces. All concrete is to be cured for 7 days. Exterior concrete shall be air entrained with 4% to 7% air content. Expansion joint at decorative masonry units. All erosion control plans at the project site.

41. All erosion control practices shall be maintained for the duration of the project and warranty period.

42. The contractor shall inspect the responsibility for obtaining copies of all required permits prior to starting construction. The contractor is also responsible for adhering to the requirements of all applicable permits required by authorities having jurisdiction over the project.

43. The contractor is responsible for any sediment reaching a public road or sidewalk shall be removed by street cleaning other than flushing, within 24 hours.

44. Temporary seed shall be placed in accordance with applicable standards. Use water content of 43% for full flushings after 24 hours.

45. The contractor shall keep a copy of the erosion control plans at the project site and provide completed inspection forms to the public works director and Essex county at the request. Authorities having jurisdictionary request inspection reports at any time.

46. All erosion control methods shall be in accordance with the state of Massachusetts. Essex county and Salem park district, Essex county standards and specifications and requirements.

47. All exposed soil areas not disturbed for up to seventy-two (72) hours shall be immediately restored with seed and mulch.

48. All water from construction dewatering shall be treated in accordance with state of Massachusetts standards prior to discharging to waters of the state.

49. Dewatering shall be completed as needed in accordance with the state of Massachusetts and Essex county standards.
**SKATE PARK FEATURE LEGEND**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>ENTRY, SEE LANDSCAPE</td>
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<tr>
<td>SKATE PARK SIGNAGE, SEE LANDSCAPE</td>
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<tr>
<td>TOP DECK</td>
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<tr>
<td>FLAT RAIL BANK EXTENSION</td>
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<td>QUARTER PIPE</td>
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<td>STAMPED BRICK PATTERN GAP</td>
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<td>BOWL</td>
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<td>EXTENSION</td>
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<td>MIDGE</td>
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<td>A FRAME BANK WITH RAIL AND LEDGE</td>
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<td>RISER</td>
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<td>HUBA LEDGE</td>
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<td>BOX</td>
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<td>HUBA LEDGE</td>
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<td>BANK</td>
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<td>BANK TO ANGLED EDGE</td>
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<tr>
<td>FLAT RAIL</td>
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<tr>
<td>5' HIGH GUARDRAIL</td>
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<tr>
<td>PAVEMENT OF WILL REFER TO SECTIONS SHEETS FOR PROFILE VIEW</td>
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<tr>
<td>BANK LANDSCAPED WITH SLOPE AND RISE AT 1:18</td>
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<tr>
<td>REFER TO SECTIONS FOR PROFILE VIEW</td>
<td></td>
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</tbody>
</table>

**NOTE**

As noted, design, grading, and drainages directions are to be determined based on topography and regional drainage requirements.
<table>
<thead>
<tr>
<th>SYMBOL</th>
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<th>STRENGTH</th>
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<th>CURE TIME</th>
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<tbody>
<tr>
<td>CF-01</td>
<td>TURNDOWN WALL</td>
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<td>SMOOTH TROWEL</td>
<td>28 DAYS</td>
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<tr>
<td>CF-02</td>
<td>CAST IN PLACE LEDGE OR RAIL TIED TO BANK OR DECK</td>
<td>4,000 P.S.I.</td>
<td>SMOOTH TROWEL</td>
<td>28 DAYS</td>
</tr>
</tbody>
</table>

**CONCRETE MATERIAL NOTES**

1. CONTRACTOR SHALL SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
2. CONTRACTOR SHALL SUBMIT PROPOSED START AND STOP FORM LOCATIONS FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
3. CONTRACTOR SHALL BUILD ALL TEMPLATES AND FORMS WITH TRUE ARCS AND TRANSIT MATCHING SECTIONS AND PROFILE DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONSTRUCTION SHALL POUR ON-SITE SAMPLES OF CAST IN PLACE AND SHOTCRETE WORK PER THE SPECIFICATIONS. SAMPLES CANNOT BE PART OF THE PROJECT WORK.
5. ALL CONCRETE POUR WORK SHALL BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM ON-SITE SAMPLES SHALL BE REJECTED.

**NOTE**

REFER TO SECTIONS TO VERIFY WHERE CANTILEVERED SKATE FEATURES OCCUR.

**CONCRETE FOUNDATION LEGEND**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>STRENGTH</th>
<th>FINISH</th>
<th>CURE TIME</th>
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<tbody>
<tr>
<td>CF-01</td>
<td>TURNDOWN WALL</td>
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<td>SMOOTH TROWEL</td>
<td>28 DAYS</td>
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<tr>
<td>CF-02</td>
<td>CAST IN PLACE LEDGE OR RAIL TIED TO BANK OR DECK</td>
<td>4,000 P.S.I.</td>
<td>SMOOTH TROWEL</td>
<td>28 DAYS</td>
</tr>
<tr>
<td>CF-03</td>
<td>REINFORCED WALL</td>
<td>4,000 P.S.I.</td>
<td>SMOOTH TROWEL</td>
<td>28 DAYS</td>
</tr>
</tbody>
</table>
CONCRETE MATERIAL NOTES
1. CONTRACTOR SHALL SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT / SKATE PARK ARCHITECT.
2. CONTRACTOR SHALL SUBMIT PROPOSED STAMP AND STAMP FORMS FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT / SKATE PARK ARCHITECT.
3. CONTRACTOR SHALL BUILD ALL TEMPLATES AND FORMS WITH TRUE ARC AND TANGENTS MATCHING SECTIONS AND PROFILE DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONTRACTOR SHALL SUBMIT ALL SUBMITTALS OF CAST-IN-PLACE AND SHOTCRETE WORK IN THE SPECIFICATIONS. SAMPLES CANNOT BE PART OF THE PROJECT WORK.
5. ALL CONCRETE FINISH WORK SHALL BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT / SKATE PARK ARCHITECT.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM CAST-IN-PLACE SAMPLES WILL BE REJECTED.

NOTE
REFER TO SECTIONS TO VERIFY WHERE CANTILEVERED SKATE FEATURES OCCUR.

CONCRETE POUR-SEQUENCE GUIDELINE
1. INSTALL ALL CAST-IN-PLACE FORMS & METAL FABRICATIONS.
2. POUR ALL CAST-IN-PLACE LEDGES, BREAK FORMS AND FINISH.
3. INSTALL ALL METAL FABRICATIONS FOR SHOTCRETE AREAS AND FORM WORK.
4. INSTALL ALL REQUIRED REBAR PER PLANS AND SPECIFICATIONS.
5. INSTALL ALL SHOTCRETE AND SPECIALTY FORMS PER PLANS AND SPECIFICATIONS.
6. BREAK ALL SHOTCRETE AND SPECIALTY FORMS PRIOR TO POURING FLATWORK.
7. POUR ALL TOPS DECK.
8. POUR ALL BOTTOM AREAS LAST.

SKATE PARK SPECIALTY CONTRACTOR EXPERIENCE
1. REQUIRED EXPERIENCE: CONTRACTOR OR SUBCONTRACTOR MUST HAVE COMPLETED THREE (3) PUBLIC CONCRETE (PRE-CAST EXCLUDED) SKATE PARK FACILITIES WITH A MINIMUM SIZE OF 10,000 SQUARE FEET, IN THE LAST FIVE (5) YEARS WITH SMOOTH TROWEL FINISH OF SHOTCRETE AND CAST-IN-PLACE CONCRETE. PARKS MUST BE OPEN AND IN GOOD OPERATING CONDITION FOR AT LEAST ONE YEAR.

CONCRETE MATERIALS LEGEND

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>DESCRIPTION</th>
<th>DESIGN STRENGTH</th>
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<td>6&quot; CONCRETE DECK</td>
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<tr>
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<tr>
<td>CAST IN PLACE STAIRS</td>
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<tr>
<td>CAST IN PLACE BANK</td>
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<tr>
<td>CAST IN PLACE Ledge Cap</td>
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<tr>
<td>6&quot; SHOTCRETE BOWL</td>
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<td>28 DAYS</td>
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<tr>
<td>4&quot; CONCRETE FB/RE (STAMPED BRICK PATTERN)</td>
<td>4,000 P.S.I.</td>
<td>28 DAYS</td>
<td>HERRING BONE PATTERN</td>
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</tbody>
</table>
1. ALL METAL FABRICATION SIZES ARE NOMINAL.
2. ALL METAL FABRICATION SHOWN ARE HOT DIPPED GALVANIZED.
4. SAMPLES: REQUIRED FOR ALL COPING, RAILS, FENCING, AND EDGING OF THE SKATE PARK. SUBMIT FINISH SAMPLES FOR FINAL FINISH REQUIRED PRIOR TO DELIVERY TO SITE.
5. STEEL COPING: ROLL PIPE TO CONFORM WITH HORIZONTAL CONTROL RADII AT CENTERLINES OF PIPE.
CONCRETE JOINTING NOTES

1. Construct joints true to line with faces perpendicular to surface plane of concrete.
2. Construction joints: Install to strength and appearance of concrete are maintained in locations specified and approved by landscape architect.
3. Place joints perpendicular to grade reinforcement - continue reinforcement across construction joints unless otherwise indicated.
4. Raised joints: Form construction joints with power saw equipped with shatterproof abrasive or diamond-rimmed blade. Cut narrow vein joints into concrete. When cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
5. All control joints shall be traced for reference details.
6. Clean all joints thoroughly, embed, and dust free prior to any jointing application.
7. Concrete must be cured to specified strength prior to applying sealant.
8. Contractor must submit a pour schedule designating all start and stop form locations prior to start of construction.
9. The jointing plan is schematic in nature. Contractor to apply additional jointing and crack prevention measures as necessary.

CONCRETE JOINTING LEGEND

<table>
<thead>
<tr>
<th>Description</th>
<th>Designation</th>
<th>Notes</th>
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<tr>
<td>C.J. - Construction Joint</td>
<td>3, 3, 589: 0.3</td>
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<tr>
<td>S.J. - Sawcut Joint</td>
<td>1/8&quot;R: 0.3</td>
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<tr>
<td>E.J. - Expansion Joint</td>
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</tbody>
</table>
GALLOWS HILL PARK
SALEM, MASSACHUSETTS
CITY OF SALEM, MA

GALLOWS HILL PARK IMPROVEMENTS

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SP-1.6

SKATE PARK - ARTISTIC RENDERS

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AUGUST 2019

ASD
MM

SALEM, MASSACHUSETTS

GALLOWS HILL PARK

GALLOWS HILL PARK IMPROVEMENTS

CITY OF SALEM, MA

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

SP-1.6
CONCRETE MATERIAL NOTES

1. CONTRACTOR SHALL SUBMIT POUR SCHEDULE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
2. CONTRACTOR SHALL SUBMIT PROPOSED START AND STOP FORMS LOCATION FOR ALL CONCRETE WORK SHOWN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
3. CONTRACTOR SHALL BUILD ALL TEMPLE FORMS WITH TRUE ARCS AND TANGENTS MATCHING SECTIONS AND PROFIL DIMENSIONS WITHIN THE CONSTRUCTION DOCUMENTS.
4. CONTRACTOR SHALL POUR ALL SAMPLES OF CAST-IN-PLACE AND SHOTCRETE WORK WITH THE SPECIFICATIONS. SAMPLES CANNOT BE PART OF THE PROJECT WORK.
5. ALL CONCRETE FINISH WORK SHALL BE PERFORMED BY PRE-QUALIFIED CONTRACTOR ONLY AND APPROVED BY LANDSCAPE ARCHITECT/SKATE PARK ARCHITECT.
6. FINISH WORK NOT MEETING THE TOLERANCES, FINISH AND TOOLING FROM CAST-IN-PLACE SAMPLES WILL BE REJECTED.

NOTE

REFER TO SECTIONS TO VERIFY WHERE CANTILEVERED SKATE FEATURES OCCUR.

CONCRETE POUR-SEQUENCE GUIDELINE

1. INSTALL ALL CAST-IN-PLACE FORMS & METAL FABRICATIONS.
2. POUR ALL CAST-IN-PLACE LEDGES, BREAK FORMS AND FINISH.
3. INSTALL ALL METAL FABRICATIONS FOR SHOTCRETE AREAS AND FORM WORK.
4. INSTALL ALL REBAR REQUIREMENTS PLANS AND SPECIFICATIONS.
5. INSTALL ALL SHOTCRETE AND SPECIALTY POURS PER PLANS AND SPECIFICATIONS.
6. BREAK ALL SHOTCRETE AND SPECIALTY FORMS PRIOR TO POURING FLATWORK.
7. POUR ALL TOPS DECKS.
8. POUR ALL BOTTOMS DECKS LAST.

SKATE PARK SPECIALTY CONTRACTOR EXPERIENCE

1. REQUIRED EXPERIENCE: CONTRACTOR OR SUBCONTRACTOR MUST HAVE COMPLETED THREE (3) PUBLIC CONCRETE PRE-CAST EXCLUDED) SKATE PARK FACILITIES WITH A MINIMUM SIZE OF 10,000 SQUARE FEET, WITH AT LEAST 50 DECKS WITH SMOOTH TROWEL FINISH OF SHOTCRETE AND CAST-IN-PLACE CONCRETE. PARKS MUST BE OPERATING IN GOOD OPERATIONAL CONDITION FOR AT LEAST ONE YEAR PRIOR TO ALL CAST-IN-PLACE LEDGES, BREAK FORMS AND FINISH.

CONCRETE COLOR LEGEND

- NATURAL GRAY (INTEGRAL COLOR)
- CHARCOAL GRAY (INTEGRAL COLOR)
- CHARCOAL GRAY (INTEGRAL COLOR) LEDGE CAP
- WITH CMU LEDGE BASE (Smoother, Exposed Aggregate / Burnished Finish)

SYMBOL DESCRIPTION

- CC-01
- CC-02
- CC-03

SP-1.7
METALS MATERIALS NOTE

1. ALL METAL FABRICATION SIZES ARE NOMINAL.
2. ALL METAL FABRICATION SIZES ARE TO BE HOT DIPPED GALVANIZED.
4. WELDS NECESSARY TO CONNECT ALL COPING AND METAL FABRICATION SHOULD BEDone BY CERTIFIED WELDER. SMOOTH, DE-BURR AND COAT PER SPECIFICATIONS.
5. PROTECT ALL FINISH WORK ADJACENT TO METAL FABRICATION EFFORTS TO PREVENT ANY STAINING.
6. SUBMIT FINISH METAL SAMPLES FOR FINAL FINISH REQUIRED PRIOR TO DELIVERY TO SITE.
7. STEEL COPING: ROLL PIPE TO CONFORM WITH HORIZONTAL CONTROL RADIUS AT CENTERLINE OF PIPES.

METAL COLOR / FINISH LEGEND

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-01</td>
<td>PRIME AND PAINT</td>
</tr>
<tr>
<td>MC-02</td>
<td>HOT DIPPED GALVANIZED</td>
</tr>
<tr>
<td>MC-03</td>
<td>COLORFUL BLUE HAMMER</td>
</tr>
</tbody>
</table>
* CONTRACTOR RESPONSIBLE FOR SURVEY WORK
* CONTRACTOR RESPONSIBLE FOR SURVEY WORK
SURVEY NOTES
1. Locate all survey markers including benchmark and property lines to ensure that the exact area of construction limits are determined. Marshalls are responsible for the survey and co-ordinates prior to construction.
2. Verify survey layout prior to start of construction with hazard warning signs reflecting data note two and project.
3. Locate and protect control points prior to stakeouts and notice all permanent reference points before construction. Dispose project control points and may be lost or damaged during construction.
4. Contractor shall verify finished elevations as shown on site, maintain site plan and as any discrepancies to the Government immediately upon request with order.

GRADING & DRAINAGE NOTES
1. Final height and shape of excavation to be verified by Salem Parks Department in the field.
2. All slope elevations are for top of finish unless otherwise noted.
3. Minimum slope for all construction work shall be 3%.
4. Maximum deviation from cross slope is 2%.
5. Minimum deviation conditional slope is 0.75%.
6. All areas disturbed by grading operations to be fine graded.
7. Verify location and depth of all utilities prior to commencing work.
8. Refer to sections and profiles for height, areas and profiles.
9. All fine grading of earthwork shall be inspected with templates cut to the specified radius. Contractor to provide edge grading for template/borders to be used for earthwork specifications for approval by city engineer.
10. Contractor to protect all descant from soil erosion and and structural failure of all areas using appropriate construction methods. And use of soil profile during construction shall be replicated with appropriate soil.
11. Bedding and superior fill used.
12. The drain is the slope where perforations in the permeable soil will allow water to exit. The drain is the slope needed to prevent drainage and will be marked on the Gallow Hill Park Improvement Plan.
13. Refer to sections for base park features that are not marked on this sheet.

GRADING & DRAINAGE LEGEND
- Direction of Surface Flow
- Feet or Inches
- Bounding Line
- Flowline of Swale
- Profile of Swale
- Invert Elevation
- Break in Grade
- Top of Wall / Bottom of Wall
- Top of Rail / Top of Concrete
- Top of ledge / Top of Concrete

Gallows Hill Park
Salem, Massachusetts
Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street
Salem, Massachusetts

Notes: I-3104Galloswalksg Hiddenwalksg Newwalksg Marshalls s Field Survey Notes

City of Salem
Department of Public Works

City of Salem
Department of Public Works

City of Salem
Department of Public Works

City of Salem
Department of Public Works

City of Salem
Department of Public Works
**Typical Concrete Waterfall**

1. See Note 4.
2. Waterfall with flexible polyurethane elastomeric joint sealant. Varnished or by or signal color to match concrete.
3. Expansion joint at flatwork.
5. Construction joint at 5" to 6".
6. Turndown wall adj. to deck.
7. Turndown wall adj. to grade.
8. TYPICAL CONCRETE WATER FALL

**Gallows Hill Park**

City of Salem, MA

**Design**: Kyle Zick Landscape Architects, Inc.

**Details**: Basic pour at 1'-0" O.C. #4 @ 12" O.C. Both ways.

**Construction**: Flatwork #4 @ 12" O.C. Both ways.

**Notes**: See Notes 1, 2, 3.

**Sections**: Refer to Sections 1, 2, 3, 4.

**Masonry**: See masonry notes.

**Concrete**: See concrete notes.

**Waterfall**: See waterfall notes.

**Concrete Placement**: See concrete pour notes.

**Base and Membrane**: See base and membrane notes.

**Joint Details**: See joint details notes.

**Sealant**: SIKAFLEX-1c SL or equals - color to match concrete.

**Elastomeric Joint Sealant**: SIKAFLEX-1c SL or equals - color to match concrete.

**Note**: Minimum thickness with 2.12" to 2.14".

**Sealant**: Bond breaker in place is 1/4".

**Bonds**: See bond breaker notes.

**Waterstop**: By JP Specialties.

**Reinforcement**: #4 @ 12" O.C. Both ways.

**Expansion Joint**: At flatwork.

**Fill Joint**: With flexible polyurethane elastomeric joint sealant. Varnished or by signal color to match concrete.

**Construction Joint**: At flatbottom.

**Construction Joint**: At deck.

**Turndown Wall Adj. to Deck**: See turndown wall notes.

**Turndown Wall Adj. to Grade**: See turndown wall notes.

**Concrete**: 90% compacted subgrade - refer to specifications.

**Aggregate Base**: 4" min. (top course) - refer to specifications.

**Aggregate Base**: 90% compacted subgrade - refer to specifications.

**Reinforced Flatbottom**: Construction joint at flatbottom.

**Reinforced Top Deck**: Construction joint at deck.

**Gallows Hill Park Improvements**

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**Fill Joint**: With flexible polyurethane elastomeric joint sealant.

**Bonds**: See bond breaker notes.

**Waterstop**: By JP Specialties.

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**Concrete**: 90% compacted subgrade - refer to specifications.

**Aggregate Base**: 4" min. (top course) - refer to specifications.

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8
FLAT STEEL RAIL SECTION

9
TYPICAL RAIL FOOTING

ADD FURTHER DESCRIPTION HERE

10
SLOPED STEEL RAIL SECTION

SP-5.4
**GUARDRAIL POST**

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR FINAL APPROVAL BEFORE FABRICATION.
2. ALL METAL SHALL BE HOT-DIPPED GALVANIZED.
3. ALL WELDS TO BE PERFORMED IN THE SHOP. NO ON-SITE WELDING OR COLD GALVANIZING IS ALLOWED.

**METAL PANEL - WEDGE ANCHOR DETAIL**

1. 1/8" Colored Metal Panel; Graphic File Will Be Provided by Landscape Architect
2. Tamper-Proof Security Nut (Zamack Trident Nut, or Similar; Contractor to Select Product Dimension to Withstand Load of Metal Panel)
3. Hammer-Drilled Hole; Minimum Embedment of Wedge Anchor Must Meet Minimum Load Requirements of Metal Panel
4. Min. 1/8" Gap Between Metal Panel and Concrete Face to Allow for Expansion
5. 8" x 8" x 1/2" Weather Resistant Fibre Expansion Joint with Drilled Hole for Wedge Anchor to Pass Through
6. Ensure Hammer-Drilled Holes Do Not Intersect with Any Rebar Within Concrete