

SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Statement of Work
- B. Description of Work
- C. Special Conditions

1.2 STATEMENT OF WORK

The Work included in this Contract consists of furnishing all plant, new materials, equipment, supplies, labor, transportation, fuel and power and performing all Work as required by the Contract, in strict accordance with the Specifications, Schedules and Drawings, and Pennsylvania Department of Transportation Publication 408 specifications, latest edition, all of which are made a part hereof; and including such detail Drawings as may be furnished by the ENGINEER from time to time during the construction in interpretation of said Drawings. PennDOT Publication 408 shall be adhered to regarding construction methods and materials. Contract administration and measurement and payment basis shall be as specified in these Contract Documents. The Work shall be complete and all Work, materials, and services not expressly called for in the Specifications, or specially indicated on the Drawings, which may be necessary for complete and proper construction to carry out the Contract in good faith, shall be performed, furnished and installed by the CONTRACTOR at no additional cost to the OWNER. The Work shall be executed in the best and most workmanlike manner by qualified, careful and experienced workers.

1.3 DESCRIPTION OF WORK

The Work shall include, but not necessarily be limited to, furnishing all materials, performing all labor and constructing the following, complete in place:

A. SITE WORK (GENERAL CONTRACTOR)

1. Mobilize equipment, personnel and materials to the project site as necessary to construct the project improvements. Includes all associated travel, fuel, rental, and other associated fees and demobilization upon project completion. This items includes construction stakeout, project management, and project scheduling; coordination with Grindline Skatepark, Inc. with regard to construction of the Skate Park features; clean up and removal of any construction debris, waste, excess materials, etc.; and all start up and shut down costs. It will be paid in multiple installments over the life of the project. (Lump Sum)
2. Furnish, install, and maintain all temporary erosion and sedimentation control measures and temporary construction fencing as indicated for the duration of the project. This includes but is not limited to the installation and maintenance of a rock construction entrance, compost filter sock, erosion control fabric, concrete washouts, water filter bags, pumps / pumping, tree protection fencing, inlet filter bags and stockpile stabilization. Includes resolving any issues identified by the owner and/or the Berks County Conservation District and/or the Engineer. At the completion of construction, all temporary erosion control measures shall be removed. (Lump Sum)

3. Strip and stockpile topsoil as indicated. Strip topsoil only from those areas that will be disturbed by excavation. Stripping depth shall match existing topsoil depth. Select stockpile location suitable for constructability purposes. Temporary stabilization of the stockpile shall be completed within seven days. (Lump Sum)
4. Excavate project site to depths as indicated. Includes excavation for items in this contract and for the technical skatepark features to be constructed by Grindline. All excavation is unclassified. Properly dispose of and export excess excavated material, perform fine grading to indicated elevations, and prepare subgrade. Includes temporary stockpiling as needed. (Lump Sum)
5. Respread stored top soil as indicated. Remove excess topsoil from the site and dispose of properly. Complete fertilizing, seeding, mulching, erosion control blankets as indicated. Maintain seeded areas until stabilization is achieved, as indicated. (Lump Sum)
6. Furnish and install 6" diameter HDPE pipe, complete in place, including excavation, bedding, backfill, all necessary fittings, clean outs and connections. Includes proper disposal of all excess material. Includes connections to proposed inlets and to infiltration bed, as indicated. (490 LF)
7. Furnish and install 8" diameter HDPE pipe, complete in place, including excavation, bedding, backfill, all necessary fittings, clean outs and connections. Includes proper disposal of all excess material. Includes. (150 LF)
8. Furnish and install 10" diameter HDPE pipe, complete in place, including excavation, bedding, backfill, all necessary fittings, clean outs and connections. Includes proper disposal of all excess material. Includes connection to infiltration bed, as indicated. (120 LF)
9. Furnish and install 12" diameter HDPE pipe, complete in place, including excavation, bedding, backfill, all necessary fittings, clean outs and connections. Includes proper disposal of all excess material. Includes connections to proposed inlets and to infiltration bed, as indicated. (180 LF)
10. Furnish and install 15" diameter HDPE pipe, complete in place, including excavation, bedding, backfill, all necessary fittings, clean outs and connections. Includes proper disposal of all excess material. Includes connections to proposed inlets, as indicated. (115 LF)
11. Install PennDOT standard 2' by 4' inlet box with Suntree Grate Inlet Skimmer Box #GISB-27-48-18 Water Quality Insert and Type C top unit with "Dump No Waste Drains to Waterways" metal plaque or concrete imprint, and bicycle safe grate, as indicated. Includes excavation, removal and disposal of excavated materials, installation of bedding and backfill material, and pavement restoration including bituminous seal. (1 EA)
12. Connect proposed pipes into the existing inlets on Canal Street and Minor Street, as indicated. Includes excavation, removal and disposal of excavated materials, installation of bedding, water tight seal, backfill material, and restoration. (2 EA)
13. Install Manhole as indicated. Includes excavation, removal and disposal of excavated material, installation of bedding, pipe and backfill material, water tight connections, and pavement restoration. Lid shall be 30-in diameter East Jordan Works 1040A Cover or approved equal. (2 EA)

14. Install concrete embedded trench drain with heavy duty metal grate per manufacturer's instructions and as indicated. Drain is to be ZURN model Z886-HD (E1-HPDE-JC-DB). A bottom dome strainer shall be included where the trench drain transitions into the 6-in pipe which connects to the infiltration bed. Grates to be heavy duty and heel proof. Concrete to be PennDOT Class A. (300 LF)
15. Furnish and install the underground infiltration bed, complete in place. Includes: unclassified excavation and disposal of excess excavated material through a means and method of construction which limits compaction of infiltration bed bottom area; installation of bedding, water tight pipe connections, elbows, tees, observation ports, risers, underdrain connections, geotextile fabric, pipe boots, outlet structure (OS-1) and backfill. (Lump Sum)
16. Construct plain cement concrete curb as indicated. Includes removal of existing curb and excavation required for forms. Includes installation of 4-inch depth No. 2B stone subbase. Includes pavement restoration in front of and 2-ft beyond new curb ends. (25 LF)
17. Construct plain cement concrete curb as indicated. Includes excavation, removal and disposal of materials. Includes installation of 4-inch depth No. 2B stone subbase. (315 LF)
18. Construct cement concrete sidewalk, 4" depth, on 4" depth of compacted AASHTO No. 57 stone base, on prepared subgrade as indicated. Includes excavation, removal and disposal of existing concrete sidewalk. (600 SF)
19. Construct cement concrete sidewalk, 4" depth, on 4" depth of compacted AASHTO No. 57 stone base, on prepared subgrade as indicated. Includes excavation, removal and disposal of materials. Also includes resetting signs/sign posts located within the new sidewalk area to a new location. (1255 SF)
20. This item is for curb ramps at the corners of New Canal Street and Minor Street and South Street and Minor Street. It includes final design of the ramps and installation of detectable warning surfaces. Curb and Sidewalk will be paid for as part of items 16 and 18. Prepare and submit Design Drawings for each quadrant to include construction ready lines, grades, elevations, and dimensions of the proposed curb ramps in accordance with PennDOT specifications at the locations shown on the Drawings. Contractor to provide all survey, design plans, and PennDOT Technically Infeasible Forms (TIFs) if applicable to the City for review and approval. Topographic survey sufficient to accommodate the necessary design shall be performed. Design shall include Detectable Warning Surface (DWS), as indicated. Color shall be "Brick Red". Construct in accordance with applicable RC-67M details. DWS shall be PennDOT Bulletin 15 approved Polymer Composite. The Drawings represent conceptual layouts and may not dictate the most applicable design for each quadrant. Contractor shall submit Design Drawings that are sealed by a Professional Engineer licensed in Pennsylvania. Design the curb ramps to accommodate the existing utility facilities within the project. Minor utility adjustments such as, but not limited to, minor vertical adjustments of manhole frames, junction box lids, and valve boxes, etc. shall be required where they interfere with the proper location of the curb ramps. The design shall include the layout of a marked crosswalk. Contractor shall submit Design Drawings for each quadrant to the City for review and approval. Revisions to each drawing and subsequent submissions shall be considered incidental. Includes one meeting between the design professional and the City to discuss the design. Payment is by quadrant; a quadrant is defined as: all of curb ramp elements on one corner of a particular intersection, whether one or more individual ramps are involved. (2 EA)

21. This item is for curb ramps at the proposed driveways to the proposed parking lot and for the curb ramp leading from the parking lot into the skate park. It includes final design of the ramps and installation of detectable warning surfaces. Curb and Sidewalk will be paid for as part of items 17 and 19. Prepare and submit Design Drawings for each ramp to include construction ready lines, grades, elevations, and dimensions of the proposed curb ramps in accordance with PennDOT specifications at the locations shown on the Drawings. Contractor to provide all survey, design plans, and PennDOT Technically Infeasible Forms (TIFs) if applicable to the City for review and approval. Topographic survey sufficient to accommodate the necessary design shall be performed. Design shall include Detectable Warning Surface (DWS), as indicated. Color shall be "Brick Red". Construct in accordance with applicable RC- 67M details. DWS shall be PennDOT Bulletin 15 approved Polymer Composite. The Drawings represent conceptual layouts and may not dictate the most applicable design for each location. Contractor shall submit Design Drawings that are sealed by a Professional Engineer licensed in Pennsylvania. Design the curb ramps to accommodate the existing utility facilities within the project. Minor utility adjustments such as, but not limited to, minor vertical adjustments of manhole frames, junction box lids, and valve boxes, etc. shall be required where they interfere with the proper location of the curb ramps. Contractor shall submit Design Drawings for each ramp to the City for review and approval. Revisions to each drawing and subsequent submissions shall be considered incidental. Includes one meeting between the design professional and the City to discuss the design. Payment is by curb ramp; the 2-directional ramp on the west side of the west driveway shall be considered one ramp. (5 EA)
22. Furnish, place and compact PennDOT No. 2A Subbase on compacted subgrade, 6" depth, for the driveways and parking lot. (380 SY)
23. Furnish, install and compact Superpave asphalt mixture design, binder course, PG 64S-22, < 0.3 million ESALS, 19 mm mix, 3" depth, on prepared subbase. (380 SY)
24. Furnish, install and compact Superpave asphalt mixture design, wearing course, PG 64S-22, < 0.3 million ESALS, 9.5 mm mix, 1.5" depth, SRL-H. Includes tack coat and sealing all joints. (380 SY)
25. Furnish and install handicapped parking signs and posts, as indicated, meeting requirements for PennDOT Type B or Type F signs, as appropriate. (2 EA)
26. Furnish and install traffic signs and posts at the proposed parking lot driveways, as indicated, meeting requirements for PennDOT Type B or Type F signs, as appropriate. (5 EA)
27. Furnish and install Skate Park Rules and Regulation Sign, as indicated, meeting requirements for PennDOT Type B signs. The exact wording is subject to review and approval by the City of Reading Public Works Department and Recreation Commission prior to fabrication. (1 EA)
28. Furnish and install Skate Park Entrance Sign, 18" high by 24" wide, using one sign post. Wording and graphics on sign to be determined by the City of Reading Public Works Department and Recreation Commission prior to fabrication. (1 EA)
29. Furnish install and maintain, for the duration of construction, the Temporary DCNR Grant sign in accordance with Grant SIGN Requirements. Sign detail and requirements are identified after Section 01010. (1 EA)

30. Furnish and install Permanent DCNR Grant sign in accordance with Grant SIGN Requirements. Sign detail and requirements are identified after Section 01010. (1 EA)
31. Install Parking Lot pavement markings and pavement markings for on-street handicapped space, as indicated. Includes parking space lines and cross hatching in lot, parking space lines on street, painting the street curb blue, and indicated symbols. Lines and curb paint shall be latex. Symbols shall be hot thermoplastic. (Lump Sum)
32. Install Parking Lot Lighting fixtures as Indicated. Includes coordination with electricity provider (Met-Ed) for electrical connection. Includes excavation and construction of foundation, and installation of base, pole, luminaire, ¾" SCH 40 PVC Conduit, ground rod, 100 amp panel, breakers, and wire connections. Includes all items necessary for a complete and operational system. CONTRACTOR shall conduct exploratory "soft dig" at each foundation in order to confirm location of existing utilities. (Lump Sum)
33. Furnish and install Dumor Model No. 437-40SH trash receptacle or approved equivalent. Install per the manufacturer's instructions. (1 EA)
34. Furnish and install Dumor Model No. 130-40 bike rack or approved equivalent. Install per the manufacturer's specifications, using S-1 embedment detail. (1 EA)
35. Prune existing street trees around the entire perimeter of the site such that the on-street parking area (extending 8 feet out from the curb) is unobstructed to a height of 14 feet and such that the sidewalk area is unobstructed to a height of 10 feet. All pruned material shall be disposed of legally, off-site by the Contractor. The number of trees to be pruned is approximately 25. (Lump Sum)
36. Provide and maintain traffic control in accordance with the MUTCD, PennDOT Publication 212, and PennDOT Publication 213. Maintain access for project area businesses and residents. If at any time the required traffic control devices, personnel, etc. are missing and the regulations are not being followed, the work may be immediately suspended until the traffic control problem is rectified. No City streets may not be closed to through traffic. At least one lane of traffic must be maintained in each direction at all times. (Lump Sum)

1.4 SPECIAL CONDITIONS

- A. The curb ramps are design/build. The curb ramps shown on the DRAWINGS are conceptual only.
- B. Measurement and payment will be made only for Work that has been acceptably performed within the limits indicated, or authorized by the ENGINEER.
- C. All excavation is unclassified and includes excavation and removal of all soil, shale, rock, boulders, fill, concrete, building materials, and all other materials encountered, of whatever nature.
- D. It shall be the responsibility of the CONTRACTOR to maintain records of quantities used. If the CONTRACTOR determines that the bid quantities might be exceeded, the CONTRACTOR shall immediately notify the ENGINEER. The CONTRACTOR shall not proceed with any additional Work unless and until being so authorized by the ENGINEER in writing. All quantities shall be subject to final checking and approval by the ENGINEER.

If the CONTRACTOR chooses to continue the work it shall be at his own risk relative to payment for any material placed in excess of the plan quantity. The CONTRACTOR shall only be entitled to payment for additional quantities if, as part of the resolution, the ENGINEER approves, in writing, said additional quantity.

- E. Cutting of pavement shall be performed in a clean and neat manner, by means of saw cutting, or milling. Milled or otherwise excavated bituminous material shall be legally exported off-site by the CONTRACTOR.
- F. All bituminous pavement millings and concrete debris generated by this project shall become the property of the CONTRACTOR and shall be removed from the site.
- G. If conflicts are discovered with utility lines or features (e.g. gas, electric, communications) the CONTRACTOR shall notify the ENGINEER. It is the CONTRACTOR'S responsibility to contact the utility company directly. The utility company will be responsible for any required utility relocations. The CONTRACTOR shall coordinate their WORK with the utility company.
- H. When the bituminous wearing course is placed adjacent to curbs to form a bituminous gutter, upon or abutting existing bituminous material, or adjacent to structures, utilities, etc., it shall be sealed with bituminous material of the class and type designated for the surface course for a distance of six inches (6") from curb structures, utilities, etc., in order to prevent accelerated deterioration caused by natural elements.
- I. If the CONTRACTOR damages any existing features including any private property features, the CONTRACTOR shall replace same to the satisfaction of the OWNER and the property owners at no additional cost to the OWNER or the property owners.
- J. CONTRACTOR shall provide a competent resident superintendent who will be present on the project site during all times of active work, and shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent shall be CONTRACTOR'S representative at the site and shall have authority to act on behalf of CONTRACTOR. All communications to the superintendent shall be as binding as if given to CONTRACTOR. If at any time the resident superintendent is not on the project site, the Work may be immediately suspended until the resident superintendent is present on the project site.
- K. The CONTRACTOR shall have a clear schedule available for review and approval at the Pre-Construction Conference. During construction, if there are any deviations from the approved schedule, the CONTRACTOR must notify the OWNER and affected property owners immediately.
- L. The CONTRACTOR shall be responsible for posting all signs notifying the public of the upcoming construction and restrictions, as applicable, for the project area. Notification to affected property owners is the responsibility of the CONTRACTOR. All parking limitations are subject to review and approval by the OWNER. They shall be provided to the OWNER at the Pre-construction Conference. Upon completion of work, the CONTRACTOR shall remove all temporary signs.
- M. Construction stakeout and survey is the sole responsibility of the CONTRACTOR.
- N. All areas disturbed during construction shall be restored to a satisfactory condition by the CONTRACTOR, at no additional cost to the OWNER.
- O. Staging for materials and overnight storage of vehicles and/or materials will not be permitted within the City street right-of-way, unless approved by the City. The City is not

responsible for the Contractor's storage of vehicles and/or materials, daytime or overnight. Any damage or missing property during storage is NOT the City's responsibility. The CONTRACTOR may make arrangements for staging areas on site at the CONTRACTOR's discretion.

- P. The CONTRACTOR shall work only between the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday (excluding holidays) unless the OWNER permits other work hours. The CONTRACTOR must request different work hours in writing and receive approval prior to the use of different hours.
- Q. The CONTRACTOR shall supply a portable lavatory for the duration of the project. No City facilities will be offered for the contractor's use.
- R. The CONTRACTOR is responsible for providing his own water and electric. The OWNER will not make a supply of water or electric available to the CONTRACTOR.
- S. The CONTRACTOR is required to comply with all DCNR grant and NPDES permit requirements during the construction of this project.
- T. No Bituminous price adjustment will apply for this project.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF SECTION

SECTION 01020 – MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Scope of work.
 - 2. Phased construction
 - 3. Work under separate contracts
 - 4. Coordination activities.
- B. Related Requirements:
 - 1. Section 01010 – Summary of Work: Work covered by this contract.

1.2 SCOPE OF WORK

- A. Type of Contract:
 - 1. Project will be constructed under two coordinated, concurrent contracts. The OWNER intends to enter into a sole source contract with Grindline Skateparks for construction of the technical skate park features as detailed below.

3.3 PHASED CONSTRUCTION

- A. The Work will be conducted in three phases as follows:
- B. Phase 1: Initial Site Work, part of this contract – This shall include installation of erosion and sediment control features, topsoil stripping, all bulk grading, including skate park bowls, and installation of all drainage and stormwater management features.
- C. Phase 2: Construction of skate park technical features by Grindline. During this phase the General Contractor shall continue to maintain all erosion and sediment control features.
- D. Phase 3: Final Site Work, part of this contract – This shall include installation of all sidewalk, curb ramp and paving , parking lot lighting, signs, pavement markings, noted site amenities, landscaping, final grading, seeding and site stabilization, removal of temporary E&S features, and final cleaning of the site.

3.4 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractor so work on that contract may be carried out smoothly, without interfering with or delaying work. Coordinate the Work of Contract with work performed under separate contract. Each Contractor shall provide and maintain a detailed construction schedule.
- B. Extent of Contract:
 - 1. This contract includes surface site work and all bulk excavation for the project, as per the bid items, Section 01010 and the SSM drawings.
 - 2. This contract includes maintenance of temporary and permanent E&S controls for the entire project duration.

3. This contract includes coordination with Grindline Skateparks for the Grindline portion of the work. The Grindline portion of the work includes:
 - a. Fine grading the bowl areas
 - b. Installing reinforcing steel for all bowl areas and concrete skatepark features
 - c. Installation/construction of all skatepark features
 - d. Dewatering of bowl areas after rough grading is complete

1.5 COORDINATION ACTIVITIES

- A. Coordination activities of General Contractor include, but are not limited to, the following:
 1. Provide overall coordination of the Work.
 2. Coordinate shared access to workspaces.
 3. Provide overall coordination of temporary facilities and controls.
 4. Coordinate construction and operations of the Work with work performed by each Contract.
 5. Coordinate sequencing and scheduling of the Work: at earliest possible date, arrange and conduct a meeting with contractors for sequencing and coordinating the Work; negotiate reasonable adjustments to schedules.
 6. Provide information necessary to adjust, move, or relocate existing utility structures affected by construction.
 7. Locate existing permanent benchmarks, control points, and similar reference points, and establish permanent benchmarks on Project site.
 8. Provide progress cleaning of common areas and coordinate progress cleaning of areas or pieces of equipment where more than one contractor has worked.
 9. Coordinate completion of interrelated punch list items.
 10. Coordinate preparation of Project record documents if information from more than one contractor is to be integrated with information from other contractors to form one combined record.

PART 2 - PRODUCTS Not Used

PART 3 - EXECUTION Not Used

END OF SECTION

SECTION 01300 - SUBMITTALS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Submittal procedures
- B. Construction progress schedules
- C. Shop drawings
- D. Traffic control plan

1.2 SUBMITTAL PROCEDURES

- A. Identify Project, CONTRACTOR, Subcontractor or supplier; pertinent Drawing sheet and detail number(s), and specification Section number, as appropriate.
- B. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of the completed Work.
- C. Apply CONTRACTOR'S stamp, signed or initialed certifying that review, verification of Products required, field dimensions, adjacent construction Work, and coordination of information, is in accordance with the requirements of the Work and Contract Documents.
- D. Provide space for ENGINEER review stamp.
- E. Revise and resubmit submittals as required, identify all changes made since previous submittal.
- F. Distribute copies of reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with provisions.

1.3 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial progress schedule at preconstruction conference for ENGINEER review.
- B. Revise and resubmit as required.

1.4 SHOP DRAWINGS

- A. Submit in .pdf format electronically.
- B. After acceptance, ENGINEER will return reviewed .pdf to the CONTRACTOR.
- C. Anticipated required shop drawings include (but are not limited to):
 - Stone / subbase
 - Concrete mixes
 - Precast Concrete Structures
 - Pipe
 - Trench drains
 - Joint Sealant
 - Bituminous Job Mix Formulas for all pavement courses

1.5 TRAFFIC CONTROL PLAN

- A. CONTRACTOR shall provide traffic control, in accordance with PennDOT Publication 213, and Section 01010, including signing and flagging, as necessary.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not used.

END OF SECTION