

TECHNICAL SPECIFICATIONS

NEW AUTO LIFTS (DEMOLITION PACKAGE)

AT

CYPRESS COLLEGE

9200 Valley View Street
Cypress, CA 90630

NORTH ORANGE COUNTY COMMUNITY COLLEGE DISTRICT

1830 Romneya Drive
Anaheim, CA 92801-1819
Tel. (714) 808-4747



WW Project No. 18029.00

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Contact: John Garakian, Project Manager
WESTBERGWHITE, Inc.
14471 Chambers Road
Tustin, CA 92780
Tel. (714) 508-1780, ext. 314

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SECTION 01 1100

SUMMARY OF WORK

PART 1 GENERAL

1.01 PROJECT DESCRIPTION

- A. Demolition and removal of existing site improvements at Cypress College, Cypress, CA, for North Orange County Community College District, Anaheim, California, as shown on Contract Documents prepared by WestbergWhite, Inc., Architects.
- B. Work includes:
 - 1. General items consisting of:
 - a. Cleaning and protection of existing improvements to remain.
 - b. Salvageable items to be retained by Owner.
 - 2. Demolition Work Consisting of:
 - a. Removal of items for performance of Work.
 - b. Disconnecting and capping utilities.
 - c. Selective Site Demolition Work specified in Section 02 4113.
- C. Related Sections:
 - 1. Section 01 5000: Temporary Facilities and Controls; barricades and protections.
 - 2. Section 01 5713: Temporary Erosion and Sedimentation Controls
 - 3. Section 02 4113: Selective Site Demolition

1.02 PROCUREMENT AND CONTRACTING DOCUMENTS

- A. Use Division 00 Procurement and Contracting Requirements provided by North Orange County Community College District for installation of vehicle lifts at Cypress College.

1.03 RELATED DOCUMENTS

- A. Refer to District's Division 00 Documents, including General Conditions, and other Division 01 Sections, for additional requirements.
- B. Comply with requirements of these specifications and District's Division 00 documents.
 - 1. Where differences may occur between specifications and District 00 documents, requirements of District's 00 documents govern, unless otherwise directed.
 - 2. Changes to approved documents will be made by addenda or change order approved by Owner/Architect.
- C. Contract Documents are complementary and what is required by one is as binding as when required by all.
 - 1. Report errors, inconsistencies, or omissions discovered by Contractor promptly to Owner/Architect as request for information.

1.04 CONSTRUCTION REQUIREMENTS

- A. Construct Work conforming to requirements of California Code of Regulations (CCR), Title 24, Part 2, 2016 California Building Code (CBC), Volumes 1 and 2.

1.05 CONTRACTS

- A. Construct Work under single fixed-price contract.

1.06 WORK SEQUENCE

- A. Conform to construction schedule.
 - 1. Construction Time:
 - a. Starts as of date specified in initial "Notice to Proceed" from Architect to Contractor and ends with date of acceptance of Work by Owner.
- B. Construction Schedule:
 - 1. Work will be conducted in two phases and provide least possible interference with activities of Owner's personnel and to permit orderly transfer of personnel and equipment to new facilities.
 - 2. **Phase 1 consists of selective demolition of Site as indicated on Drawings.**
 - 3. Phase 2 consists of new construction and installation of vehicle lifts and begins immediately upon completion of Work of Phase 1.
- C. Liquidated Damages:
 - 1. Liquidated damages will be assessed under conditions provided in Agreement.

1.07 CONTRACTOR'S USE OF PREMISES

- A. General: During construction period, limit use of premises to immediate area required for construction operations.
 - 1. Use of premises is also limited by Owner's right to perform construction operations with its own forces or to employ separate contractors on portions of Project.
- B. Limit use of premises for Work and for storage as directed, to allow for:
 - 1. Work by other Contractors.
 - 2. Owner occupancy.
 - 3. Use by Public.
- C. Coordinate use of premises under direction of Architect and Owner.
- D. Assume full responsibility for protection and safekeeping of products under this contract, stored on Project Site.
- E. Move stored products under Contractor's control, which interfere with operations of Owner or separate contractor.
- F. Obtain and pay for use of additional storage or work areas needed for operations.

1.08 WORK DURING COLLEGE SESSIONS

- A. Work under this contract will be executed in part during regular sessions of School.
 - 1. Cooperate with College authorities in every way to minimize disturbance.

- B. In entrance and exit of workers, and in bringing in, storing, and removal of equipment, cooperate with those in authority and prevent interference with functioning of College.
 - 1. Observe rules and regulations in force and avoid unnecessary dust, mud or accumulated debris, or undue interference with convenience, sanitation or routine of departmental activities.

- C. In connecting new utilities to existing, and similar operations, time and coordinate such operations so that there will be no interference with College activities.

PART 2 PRODUCTS *(Not Applicable)*

PART 3 EXECUTION *(Not Applicable)*

END OF SECTION 01 1100

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SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Temporary facilities required for this Work include, but are not necessarily limited to:
 - a. Temporary water.
 - b. Sanitary facilities.
 - c. Construction aids.
 - d. Barriers.
 - e. Temporary controls.
 - f. Temporary project signs.
- B. Related Sections:
 - 1. Section 01 5713: Temporary Erosion and Sedimentation Controls
 - 2. Section 31 2200: Grading
- C. Related Requirements:
 - 1. Refer to District's Division 00 Documents, including General Conditions, and other Division 01 Sections, for additional requirements.
 - 2. Refer to Division 32 Sections for additional traffic control requirements.
 - 3. Permanent installation and hook-up of various utility lines are described in other pertinent sections.
 - 4. Comply with requirements of pertinent safety regulations for equipment furnished by subcontractors.
- D. Work Not Part of This Section:
 - 1. Items normally furnished by individual trades in execution of their own portions of Work.

1.01 PROJECT CONDITIONS

- A. Use means necessary to maintain temporary facilities in proper and safe condition throughout progress of Work.

PART 2 PRODUCTS

2.01 UTILITIES

- A. Water:
 - 1. Provide necessary temporary water lines and water supply and upon completion of Work, remove such temporary facility.
 - 2. Provide and pay for water needed for construction.

2.02 SANITARY FACILITIES

- A. Sanitary facilities include temporary toilets, wash facilities, and drinking water fixtures.

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1. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
 2. Install where facilities will best serve Project's needs.
 3. Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility.
 4. Provide covered waste containers for used material.
- B. Temporary Toilet Units:
1. Provide self-contained, single-occupant toilet units of chemical, aerated recirculation, or combustion type.
 2. Provide units properly vented and fully enclosed with a glass-fiber-reinforced polyester shell or similar nonabsorbent material.
 3. Provide separate facilities for male and female personnel.
 4. Maintain in sanitary condition.
- C. Wash Facilities:
1. Install wash facilities supplied with potable water at convenient locations for personnel involved in handling materials that require wash-up for healthy and sanitary condition.
 - a. Dispose of drainage properly.
 2. Supply cleaning compounds appropriate for each condition.
 3. Provide safety showers, eyewash fountains, and similar facilities for convenience, safety, and sanitation of personnel.
- D. Drinking-Water Facilities:
1. Provide containerized, tap-dispenser, bottled water drinking water units, including paper supply.

2.03 CONSTRUCTION AIDS

- A. Provide construction aids and equipment required by personnel and to facilitate execution of Work
- B. Provide necessary facilities and means of access to area so that Architect and Civil Engineer may inspect Work as necessary.

2.04 BARRIERS

- A. Temporary Fencing:
1. Provide temporary fence around entire construction area as required for safety and protection.
 2. Construction:
 - a. Provide chain link fencing not less than six feet in height, complete with metal or wood posts and required bracing, and with suitably locked truck and pedestrian gates as required.
 3. Provide opaque, fabric or plastic windscreen material, full height and run of fencing, including gates.

2.05 TEMPORARY CONTROLS

- A. Contractor Responsibility:
 - 1. Specific safety requirements by governmental authorities, including requirements of latest Occupational Safety and Health Act (OSHA) and Cal/OSHA.
- B. Provide and maintain methods, equipment, and temporary construction, as necessary to provide controls over environmental conditions at construction site and related areas under Contractor's control.
 - 1. Remove physical evidence of temporary facilities at completion of Work.
 - 2. Comply with requirements of authorities having jurisdiction.
- C. Dust Control:
 - 1. Provide positive methods and apply dust control materials to minimize raising dust from construction operations, and provide positive means to prevent airborne dust from dispersing into atmosphere.
- D. Water Control:
 - 1. Provide methods to control surface water to prevent damage to Project, Site, or adjoining properties.
 - 2. Control fill, grading, and ditching to direct surface drainage away from excavations, pits, tunnels and other construction areas and to direct drainage to proper runoff.
 - 3. Provide, operate and maintain hydraulic equipment of adequate capacity to control surface water.
 - 4. Dispose of drainage water in manner to prevent flooding, erosion, or other damage to Project Site or to adjoining areas.
 - 5. Comply with requirements specified in Section 01 5713.
- E. Debris Control:
 - 1. Maintain areas under Contractor's control free of extraneous debris.
 - 2. Prevent accumulation of debris at construction site, storage and parking areas, or along access roads.
 - 3. Provide containers for deposit of debris as specified in Section 01 7419.
- F. Pollution Control:
 - 1. Provide methods, means and facilities required to prevent contamination of soil, water and atmosphere by discharge of noxious substances from construction operations.
 - 2. Provide equipment and personnel to perform emergency measures required to contain spillage, and to remove contaminated soils and liquids.
 - 3. Take special measures to prevent harmful substances from entering public waters.
 - a. Prevent disposal of wastes, effluents, chemicals, and other such substances in sanitary or storm sewers.

2.06 TEMPORARY PROJECT SIGNS

- A. Prepare temporary project and other signs of size indicated.
 - 1. Install signs where indicated to inform public and persons seeking entrance to Project.
 - 2. Support on posts or framing of preservative treated wood or steel.

3. Do not permit installation of unauthorized signs.
- B. Provide temporary on-site informational signs.
1. As required by codes, laws and regulatory agencies
 2. To identify key elements of the construction facilities.
 3. To direct traffic.

2.07 OWNERSHIP OF TEMPORARY FACILITIES AND CONTROLS

- A. Items provided by Contractor under this Section remain property of Contractor
1. Remove such items from job site immediately upon completion of Work..

PART 3 EXECUTION

3.01 MAINTENANCE AND REMOVAL

- A. Maintain temporary facilities as long as needed for safe and proper completion of Work.
- B. Remove such temporary facilities as rapidly as progress of Work will permit, or as directed by Architect.

END OF SECTION 01 5000

SECTION 01 5713

TEMPORARY EROSION AND SEDIMENTATION CONTROL

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Prevention of erosion due to construction activities.
 - 2. Prevention of sedimentation of waterways, open drainage ways, and storm and sanitary sewers due to construction activities.
 - 3. Restoration of areas eroded due to insufficient preventive measures.
 - 4. Performance Bond.
 - 5. Compensation of Owner for fines levied by authorities having jurisdiction due to non-compliance by Contractor.

- B. Related Sections:
 - 1. Section 02 4113: Selective Site Demolition
 - 2. Section 31 2200: Grading; rough grading

1.02 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM D4873 – Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples.

- B. United States Environmental Protection Agency (EPA):
 - 1. National Pollutant Discharge Elimination System (NPDES):
 - a. Construction General Permit (CGP); current edition.

- C. Public Works Standards, Inc.:
 - 1. Standard Specifications for Public Works Construction (SSPWC):
 - a. The "Greenbook"; current edition.
 - 2. Standard Plans for Public Works Construction (SPPWC); current edition.

- D. California Stormwater Quality Association (CASQA):
 - 1. Best Management Practice (BMP) Handbook, current edition.

1.02 PERFORMANCE REQUIREMENTS

- A. Comply with requirements of U.S. Environmental Protection Agency (EPA) for erosion and sedimentation control, as specified for National Pollutant Discharge Elimination System (NPDES), Phases I and II, under requirements for 2017 Construction General Permit (CGP).

- B. Comply with requirements of California State Construction General Permit Order 2009-0009-DWQ for erosion and sedimentation control, even though this Project is not required by law to comply.

- C. Best Management Practices Standard: Federal Highway Administration Best Management Practices for Erosion and Sediment Control.

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- D. Develop and follow Erosion and Sedimentation Prevention Plan and submit periodic inspection reports.
- E. Do not begin clearing, grading, or other work involving disturbance of ground surface cover until applicable permits have been obtained.
 - 1. Furnish documentation required to obtain applicable permits.
- F. Provide to Owner Performance Bond covering erosion and sedimentation preventive measures only, in amount equal to 100 percent of cost of erosion and sedimentation control work.
- G. Timing: Put preventive measures in place as soon as possible after disturbance of surface cover and before precipitation occurs.
- H. Storm Water Runoff:
 - 1. Control increased storm water runoff due to disturbance of surface cover due to construction activities for Project.
 - 2. Prevent runoff into storm and sanitary sewer systems, including open drainage channels, in excess of actual capacity or amount allowed by authorities having jurisdiction, whichever is less.
 - 3. Anticipate runoff volume due to most extreme short term and 24-hour rainfall events that might occur in 25 years.
- I. Erosion On Site:
 - 1. Minimize wind, water, and vehicular erosion of soil on Project Site due to construction activities for Project.
 - 2. Control movement of sediment and soil from temporary stockpiles of soil.
 - 3. Prevent development of ruts due to equipment and vehicular traffic.
 - 4. When erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.
- J. Sedimentation of Waterways On Site:
 - 1. When sedimentation occurs, install or correct preventive measures immediately at no cost to Owner
 - a. Remove deposited sediments.
 - b. Comply with requirements of authorities having jurisdiction.
 - 2. When sediment basins are used as temporary preventive measures, pump dry and remove deposited sediment after each storm.
- K. Sedimentation of Waterways Off Site:
 - 1. When sedimentation occurs, install or correct preventive measures immediately at no cost to Owner.
 - a. Remove deposited sediments.
 - b. Comply with requirements of authorities having jurisdiction.
- L. Open Water:
 - 1. Prevent standing water that could become stagnant.
- M. Maintenance:
 - 1. Maintain temporary preventive measures until permanent measures have been established.

1.03 SUBMITTALS

- A. Certificate:
 - 1. Mill certificate for silt fence fabric attesting that fabric and factory seams comply with specified requirements, signed by legally authorized official of manufacturer; indicate actual minimum average roll values.
 - 2. Identify fabric by roll identification numbers.
- B. Inspection Reports:
 - 1. Report of each inspection.
 - 2. Identify each preventive measure, indicate condition, and specify maintenance or repair required and accomplished.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Gravel:
 - 1. Conforming to Greenbook standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine Project Site and identify existing features that contribute to erosion resistance.
- B. Maintain such existing features to greatest extent possible.

3.02 PREPARATION

- A. Schedule Work so that soil surfaces are left exposed for minimum amount of time.

3.03 SCOPE OF PREVENTIVE MEASURES

- A. In cases, where permanent erosion resistant measures have been installed temporary preventive measures are not required.
- B. Stabilized Construction Entrances:
 - 1. Traffic-bearing aggregate surface conforming to BMP TC-1 requirements.
 - a. Width: As required; 20 feet, minimum.
 - b. Length: 50 feet, minimum.
 - c. Provide at each construction entrance from public right-of-way.
 - d. Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.
- C. Linear Sediment Barriers:
 - 1. Made of silt fences or gravel bags.
 - 2. Provide linear sediment barriers as indicated on Drawings.
- D. Storm Drain Curb Inlet Sediment Trap: As detailed on Drawings.
- E. Storm Drain Drop Inlet Sediment Traps: As detailed on Drawings.

3.04 INSTALLATION

- A. Stabilized Construction Entrances:
 - 1. Traffic-bearing aggregate surface conforming to BMP TC-1 requirements.
 - a. Excavate minimum of 6 inches.
 - b. Place geotextile fabric full width and length, with minimum 12 inch overlap at joints.
 - c. Place and compact at least 6 inches of 1.5 to 3.5 inch diameter stone.
- B. Silt Fences:
 - 1. Conforming to BMP SE-1 requirements and following:
 - a. Store and handle fabric in accordance with ASTM D4873.
 - b. Where slope gradient is less than 3:1 or barriers will be in place less than 6 months, use nominal 16 inch high barriers with minimum 36 inch long posts spaced at 6 feet maximum, with fabric embedded at least 4 inches in ground.
 - c. Where slope gradient is steeper than 3:1 or barriers will be in place over 6 months, use nominal 28 inch high barriers, minimum 48 inch long posts spaced at 6 feet maximum, with fabric embedded at least 6 inches in ground.
 - d. Where slope gradient is steeper than 3:1 and vertical height of slope between barriers is more than 20 feet, use nominal 32 inch high barriers with woven wire reinforcement and steel posts spaced at 4 feet maximum, with fabric embedded at least 6 inches in ground.
 - e. Install with top of fabric at nominal height and embedment as specified.
 - f. Do not splice fabric width; minimize splices in fabric length; splice at post only, overlapping at least 18 inches, with extra post.
 - g. Wherever runoff will flow around end of barrier or over top, provide temporary splash pad or other outlet protection
 - 1) At such outlets in run of barrier, make barrier not more than 12 inches high with post spacing not more than 4 feet.
- C. Install gravel bags conforming to BMP SE-6 requirements.

3.05 MAINTENANCE

- A. As minimum, maintain BMPs as described in reference BMP Handbook.
- B. Inspect preventive measures weekly, within 24 hours after end of storm that produces 0.5 inches or more rainfall at Project Site, and daily during prolonged rainfall.
- C. Repair deficiencies immediately.
- D. Silt Fences:
 - 1. Promptly replace fabric that deteriorates unless need for fence has passed.
 - 2. Remove silt deposits that exceed one-third of height of fence.
 - 3. Repair fences that are undercut by runoff or otherwise damaged, whether by runoff or other causes.
- E. Clean out temporary sediment control structures weekly and relocate soil on Project Site.

- F. Place sediment in appropriate locations on Project Site
 - 1. Do not remove sediment from Project Site.

3.01 CLEAN UP

- A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by Engineer.
- B. Clean out temporary sediment control structures that are to remain as permanent measures.
- C. Where removal of temporary measures would leave exposed soil, shape surface to acceptable grade and finish to match adjacent ground surfaces.

END OF SECTION 01 5713

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SECTION 02 4113

SELECTIVE SITE DEMOLITION

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
1. Furnishing labor, materials and equipment necessary for selective site demolition, dismantling, cutting, and alterations as indicated, specified, or required for completion of Work.
 2. General items include:
 - a. Protection of existing improvements to remain.
 - b. Cleaning existing improvements to remain.
 - c. Disconnecting and capping utilities.
 - d. Removing debris, waste materials, and equipment.
 - e. Removal of items for performance of Work.
 - f. Salvageable items to be retained by Owner.
 3. Selective Site Demolition Work:
 - a. Consisting of, but not necessarily limited to, Work as indicated on Drawings:
 - 1) Removal of existing underground utilities.
 - a) Including capping off when required.
 - 2) Removal of existing above grade site improvements:
 - a) Asphalt and concrete paving.
- B. Related Sections:
1. Section 01 1100: Summary of Work.
 2. Section 01 5000: Temporary Facilities and Controls; additional traffic control and other protection procedures..
 3. Section 01 5723: Temporary Erosion and Sedimentation Control.
 4. Section 31 2200: Grading.
- C. Related Requirements:
1. Refer to respective Sections of Divisions 21 through 23, and 26 and respective Demolition Drawings for cutting, patching, removing, or relocating plumbing, HVAC, and electrical items.

1.02 QUALITY ASSURANCE

- A. Prior to commencement of Work, schedule walkthrough with Owner's Authorized Representative and Architect to confirm Owner property items have been removed from scheduled Work areas.
1. Identify and mark remaining property items and schedule their removal.
 2. Review limits of demolition and items indicated on shop drawings.
 3. Perform Work of this Section by employing workers skilled in demolition of site improvements, under Contractor's full time direct supervision.
- B. Coordinate demolition for correct sequence, limits, and methods.
1. Schedule demolition Work to create least possible inconvenience to public and facility operations.

1.03 SUBMITTALS

- A. Shop Drawings:
 - 1. Indicate extent of items and systems to be removed.
 - 2. Indicate items to be salvaged or items to be protected during demolition.
 - 3. Indicate locations of utility terminations and extent of abandoned lines to be removed.
 - a. Include details indicating methods and location of utility terminations.

1.04 PROJECT CONDITIONS

- A. Existing Utilities:
 - 1. Locate existing underground utilities in areas of excavation work.
 - 2. Where utilities are indicated to remain in place, provide adequate means of support and protection during earthwork operations.
 - 3. Should uncharted, or incorrectly charted, piping or other utilities be encountered during excavation, consult utility owner immediately for direction.
 - 4. Cooperate with Owner and utility companies in keeping respective services and facilities in operation.
 - a. Repair damaged utilities to satisfaction of utility owner.
 - 5. Do not interrupt existing utilities serving facilities occupied by Owner or others, during occupied hours, except when permitted in writing by Architect and then only after acceptable temporary utility services have been provided.
 - a. Provide minimum of forty-eight hour notice to Architect and Owner and receive written notice to proceed before interrupting utility.
 - 6. Demolish and completely remove from Project Site existing underground utilities indicated to be removed.
 - a. Backfill for abandoned underground utilities will be addressed in construction phase of Project.
 - b. Coordinate with utility companies for shutoff of service if lines are active.
- B. Drawings may not indicate in detail entire demolition Work to be performed.
 - 1. Examine existing conditions to determine full extent of required demolition.
 - 2. Existence and location of underground utility pipes or structures shown are obtained by search of available records.
 - a. Contractor is required to take due precautionary measures to protect utilities shown and other lines or structures not shown
 - b. Design Professional is not responsible for location of underground utilities or structures whether or not shown on and installed by Contract Documents.
 - c. It is Contractor's responsibility to examine conditions before commencing operations.
 - 1) Should unidentified conditions or conditions that vary from those indicated, be encountered, promptly notify Architect for clarification before proceeding
- C. Repair damage to existing improvements or damage due to excessive demolition.
- D. Provide necessary measures to avoid excessive damage from inadequate or improper means and methods, improper shoring, bracing or support.
- E. Comply with requirements of Section 01 5000 and additional protections specified in other Division 02 Sections

PART 2 PRODUCTS

2.01 HANDLING OF MATERIALS

- A. Items Scheduled for Salvage by Owner:
 - 1. Clean, package, and label items for storage.
 - 2. Deliver to location designated by Owner's authorized representative.
- B. Items Scheduled for Reuse:
 - 1. Store items on Project Site and protect from damage, theft, and other deleterious conditions.

PART 3 EXECUTION

3.01 GENERAL

- A. Protection:
 - 1. Provide safeguards, including, but not necessarily limited to, safety partitions, warning signs, lights, barricades, and other forms of protection for protection of workers, occupants, and public, are installed.
 - a. Comply with requirements of Section 01 5000.
- B. When safety of existing construction appears to be endangered, take immediate measures to correct such conditions.
 - 1. Cease operations and immediately notify Architect and Owner.

3.02 SELECTIVE SITE DEMOLITION PROCEDURES

- A. General:
 - 1. Remove existing construction only to extent necessary for proper installation of new Work and interfacing with existing construction.
 - 2. Cut back finished surfaces to straight, plumb or level lines as required for smooth transition.
 - 3. Where openings are cut oversize or in improper locations, replace or repair to required condition.
- B. Concrete and Asphalt (Bituminous) Surfacing Removal:
 - 1. Break up and completely remove following existing items:
 - a. Existing concrete surfacing, curbs, gutters, and walks.
 - b. Bituminous (asphalt) surfacing to indicated limits.
 - 2. Perform cutting to neat and even line with proper tools or concrete cutting saw.
 - a. Minimum Depth of Cut: 1-1/2 inches, unless otherwise indicated
- C. Remove concrete and asphalt pavement broken beyond indicated limits to nearest joint or score line and replace with new paving to match existing.

3.03 CUTTING EXISTING CONCRETE

- A. Engage skilled workers familiar with requirements and space necessary for placing concrete to perform cutting of existing concrete.
 - 1. Perform concrete cutting with concrete cutting wheels and hand chisels.
 - 2. Do not damage concrete intended to remain.
- B. Cutting of Non-Structural Concrete:

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1. As indicated or as reviewed by Architect.
2. Replace concrete demolished in excess of amounts indicated.
3. Prior to cutting or coring concrete, determine locations of hidden utilities or other existing improvements and provide necessary measures to protect them from damage.

3.04 REMOVAL OF EXISTING UTILITY SERVICES

- A. Plumbing:
1. Remove existing below grade plumbing services as indicated on Drawings.
 - a. Cap off existing piping to remain as indicated and specified.
 2. Coordinate with requirements specified in Division 22 Sections.
- B. Electrical:
1. Remove existing electrical equipment fixtures and services not indicated for reuse and not necessary for completion of Work.
 2. Remove abandoned conduit and cap unused portions of existing conduit.

3.05 REMOVAL OF OTHER MATERIALS

- A. Remove existing improvements not specifically indicated or required but necessary to perform Work.
1. Cut to clean lines, allowing for installation of Work.

3.06 PATCHING

- A. Patch or repair materials to remain when damaged by performance of this Work.
1. Provide finish material and appearance of patch or repair Work matching existing.

3.07 CLEANING

- A. Conform to requirements specified in Section 01 7423 and as follows:
1. Clean existing materials to remain with appropriate tools and equipment.
 2. Protect existing improvements during cleaning operations.
 3. Dampen debris by fog water spray prior to transporting by truck.
 4. Keep debris pick-up area broom-clean and washed daily with clean water.
 5. Continuously clean up and remove items as demolition Work progresses.

3.08 REMOVAL AND DISPOSAL

- A. Remove waste and debris, other than items to be salvaged.
1. Turn over salvaged items to Owner, or store and protect for reuse where required.
- B. Remove and legally dispose of rubbish, debris, and waste materials off Project Site.
1. Fill and compact excavations in accordance with Section 31 2300.

END OF SECTION 02 4113

SECTION 31 2200

GRADING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Materials, equipment, and labor required to provide rough grading after completion of selective site demolition work.
- B. Sections:
 - 1. Section 01 5000: Temporary Facilities and Controls
 - 2. Section 01 5713: Temporary Erosion and Sedimentation Controls
 - 3. Section 02 4113: Selective Site Demolition

1.02 REFERENCES

- A. Public Works Standards, Inc.:
 - 1. Standard Specifications for Public Works Construction (SSPWC):
 - a. The "Greenbook"; current edition.
 - 2. Standard Plans for Public Works Construction (SPPWC); current edition.

1.03 QUALITY ASSURANCE

- A. Perform Work in accordance with SSPWC as minimum.
 - 1. Maintain one copy on Project Site.

1.04 SUBMITTALS

- A. Project Record Documents:
 - 1. Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

PART 2 PRODUCTS *(Not Applicable)*

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that survey bench mark and intended elevations for Work are as indicated.

3.02 PREPARATION

- A. Identify required lines, levels, contours, and datum.
- B. Utilities:
 - 1. Stake and flag locations of utilities not already identified during selective demolition..
 - 2. Protect from damage above and below grade utilities to remain during grading operations.

- C. Protect site features indicated to remain, from damage by grading equipment and vehicular traffic, including, but not necessarily limited to:
 - 1. Bench Marks.
 - 2. Survey Control Points.
 - 3. Existing sidewalks, paving, and curbs

3.03 ROUGH GRADING

- A. Uniformly grade areas within limits of grading as indicated on Drawings
 - 1. Including adjacent transition areas where indicated.
- B. Finish grading will be performed under Phase 2 of Work.

3.04 TOLERANCES

- A. Top Surface of Subgrade:
 - 1. Plus or minus 0.08 foot from required elevation, unless noted otherwise.

3.05 REPAIR AND RESTORATION

- A. repair or replace to original condition, existing facilities, utilities, and other site features indicated to remain when damaged due to Work of this Section.

3.06 CLEANING

- A. Remove unused subsoil, and other material and legally dispose of off Project Site..
- B. Leave Project Site clean and raked, ready for succeeding Work.

END OF SECTION 31 2200