SAN FRANCISCO BAY AREA
RAPID TRANSIT DISTRICT

B A R T

CONTRACT BOOK

FOR
MACARTHUR BART STATION -
PLAZA IMPROVEMENTS

CONTRACT NO. 17AJ-120
ISSUED FOR BID – August, 2017
SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

CONTRACT SPECIFICATIONS
FOR
DESIGN AND CONSTRUCTION
OF
MACARTHUR BART STATION –
PLAZA REDESIGN

CONTRACT NO. 17AJ-120

2017

Bid Set
CONTRACT NO.

THE SPECIFICATIONS CONTAINED HEREIN HAVE BEEN PREPARED UNDER THE DIRECTION OF THE FOLLOWING LICENSED INDIVIDUALS:

LANDSCAPE ARCHITECT OF RECORD:
PGAdesigninc
444 17th Street
Oakland, CA 94612

______________________________
Christopher Kent, ASLA
PGAdesigninc

ELECTRICAL:
WHM, Inc.
1605 School Street
Moraga, CA 94556

______________________________
Jose L. We, P.E. WHM, Inc.

CONTRACT SPECIFICATIONS

THE FOLLOWING CONTRACT SPECIFICATIONS INVOKE, MODIFY, AND SUPPLEMENT THE BSF FACILITIES STANDARDS, STANDARD SPECIFICATIONS, RELEASE R2.1.1, DATED OCTOBER 2010. (BFS)

THE ORGANIZATION AND SEQUENCE OF ARTICLES AND SUBARTICLES IN THESE CONTRACT SPECIFICATIONS SECTIONS ARE ALIGNED WITH LIKE IDENTIFIED ARTICLES AND SUBARTICLES CONTAINED IN THE REFERENCED STANDARD SPECIFICATIONS SECTIONS.

ACCORDINGLY, ARTICLE (S) IN THESE CONTRACT SPECIFICATIONS WHICH SPECIFY MODIFICATIONS SHALL BE UNDERSTOOD TO MEANS MODIFICATIONS TO THE PROVISIONS CONTAINED IN LIKE NUMBERED AND TITLED ARTICLES IN THE REFERENCED STANDARD SPECIFICATIONS SECTIONS.
### DIVISION 1 – GENERAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 11 00</td>
<td>Summary of Work</td>
</tr>
<tr>
<td>01 20 00</td>
<td>Price and Payment Procedures</td>
</tr>
<tr>
<td>01 31 19</td>
<td>Project Meetings</td>
</tr>
<tr>
<td>01 32 16</td>
<td>Construction Progress Schedules</td>
</tr>
<tr>
<td>01 32 33</td>
<td>Photographic Documentation</td>
</tr>
<tr>
<td>01 33 00</td>
<td>Submittal Procedures</td>
</tr>
<tr>
<td>01 33 23</td>
<td>Shop Drawings, Product Data and Samples</td>
</tr>
<tr>
<td>01 35 14</td>
<td>Operating System Interface</td>
</tr>
<tr>
<td>01 35 24</td>
<td>Construction Safety</td>
</tr>
<tr>
<td>01 42 19</td>
<td>Reference Standards</td>
</tr>
<tr>
<td>01 43 00</td>
<td>Quality Assurance</td>
</tr>
<tr>
<td>01 43 38</td>
<td>Field Samples and Mockups</td>
</tr>
<tr>
<td>01 45 00</td>
<td>Quality Control</td>
</tr>
<tr>
<td>01 45 24</td>
<td>Testing Program Requirements</td>
</tr>
<tr>
<td>01 51 00</td>
<td>Temporary Utilities</td>
</tr>
<tr>
<td>01 52 00</td>
<td>Construction Facilities</td>
</tr>
<tr>
<td>01 57 00</td>
<td>Temporary Controls</td>
</tr>
<tr>
<td>01 58 00</td>
<td>Project Identification</td>
</tr>
<tr>
<td>01 60 00</td>
<td>Product Requirements</td>
</tr>
<tr>
<td>01 64 13</td>
<td>District-Furnished Materials and Equipment</td>
</tr>
<tr>
<td>01 71 13</td>
<td>Mobilization</td>
</tr>
<tr>
<td>01 71 23</td>
<td>Field Engineering</td>
</tr>
<tr>
<td>01 74 14</td>
<td>Cleaning</td>
</tr>
<tr>
<td>01 74 21</td>
<td>Waste Management</td>
</tr>
<tr>
<td>01 77 00</td>
<td>Closeout Procedures</td>
</tr>
<tr>
<td>01 77 00</td>
<td>Project Record Documents</td>
</tr>
</tbody>
</table>

### DIVISION 2 – EXISTING CONDITIONS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 41 00</td>
<td>Demolition</td>
</tr>
<tr>
<td>02 41 19</td>
<td>Selective Structure Demolition</td>
</tr>
</tbody>
</table>

### DIVISION 3 – CONCRETE

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 05 15</td>
<td>Portland Cement Concrete</td>
</tr>
<tr>
<td>03 11 00</td>
<td>Concrete Forming</td>
</tr>
<tr>
<td>03 15 00</td>
<td>Concrete Accessories</td>
</tr>
<tr>
<td>03 20 00</td>
<td>Concrete Reinforcing</td>
</tr>
<tr>
<td>03 30 00</td>
<td>Cast-In-Place Concrete</td>
</tr>
<tr>
<td>03 35 00</td>
<td>Concrete Finishing</td>
</tr>
</tbody>
</table>
### DIVISION 5 – METALS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 05 22</td>
<td>Metal Welding</td>
</tr>
<tr>
<td>05 12 00</td>
<td>Structural Steel Framing</td>
</tr>
<tr>
<td>05 50 00</td>
<td>Metal Fabrications</td>
</tr>
<tr>
<td>05 70 00</td>
<td>Decorative Metal</td>
</tr>
<tr>
<td>05 80 00</td>
<td>Stainless Steel Station ID Pylon</td>
</tr>
</tbody>
</table>

### DIVISION 7 – THERMAL AND MOISTURE PROTECTION

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>07 60 00</td>
<td>Flashing and Sheet Metal</td>
</tr>
</tbody>
</table>

### DIVISION 8 – OPENINGS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 11 00</td>
<td>Metal Doors and Frames</td>
</tr>
<tr>
<td>08 71 00</td>
<td>Door Hardware</td>
</tr>
</tbody>
</table>

### DIVISION 9 – FINISHES

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>09 91 00</td>
<td>Painting</td>
</tr>
<tr>
<td>09 96 33</td>
<td>Graffiti-Resistant Coatings</td>
</tr>
</tbody>
</table>

### DIVISION 10 – SPECIALITIES

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 40 00</td>
<td>Safety Specialties</td>
</tr>
</tbody>
</table>

### DIVISION 12 – FURNISHINGS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 94 00</td>
<td>Site Furnishings</td>
</tr>
</tbody>
</table>
## CONTRACT SPECIFICATIONS
### TABLE OF CONTENTS

### DIVISION 20– FACILITY SERVICES

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 10 13</td>
<td>Common Materials and Methods for Facility Services - Fire Suppression, Plumbing and HVAC</td>
</tr>
<tr>
<td>20 20 13</td>
<td>Pipe Sleeves, Supports and Anchors for Facility Services</td>
</tr>
<tr>
<td>20 40 13</td>
<td>Identification for Facility Services</td>
</tr>
<tr>
<td>20 50 13</td>
<td>Raceways for Facility Services</td>
</tr>
<tr>
<td>20 50 16</td>
<td>Underground Ductwork and Structures for Facility Services</td>
</tr>
<tr>
<td>20 70 13</td>
<td>Common Materials and Methods for Electronic Services</td>
</tr>
<tr>
<td>20 70 26</td>
<td>Common Materials and Methods for Electrical Systems</td>
</tr>
</tbody>
</table>

### DIVISION 22– PLUMBING

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 13 01</td>
<td>Sanitary Sewage</td>
</tr>
<tr>
<td>22 14 01</td>
<td>Storm Drainage</td>
</tr>
</tbody>
</table>

### DIVISION 26– ELECTRICAL

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 05 24</td>
<td>Low Voltage Wires and Cables</td>
</tr>
<tr>
<td>26 05 26</td>
<td>Grounding and Bonding for Electrical Systems</td>
</tr>
<tr>
<td>26 24 24</td>
<td>Circuit Breakers and Panelboards</td>
</tr>
<tr>
<td>26 50 00</td>
<td>Lighting</td>
</tr>
</tbody>
</table>

### DIVISION 28– ELECTRONIC SAFETY AND SECURITY

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>28 10 01</td>
<td>Access Control System</td>
</tr>
<tr>
<td>28 41 29</td>
<td>Closed Circuit Television System</td>
</tr>
</tbody>
</table>

### DIVISION 31– EARTHWORK

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 00 00</td>
<td>Earthwork</td>
</tr>
<tr>
<td>31 11 00</td>
<td>Clearing and Grubbing</td>
</tr>
<tr>
<td>31 50 00</td>
<td>Excavation Support and Protection</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

## DIVISION 32– EXTERIOR IMPROVEMENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 11 17</td>
<td>Aggregate Subbase Courses</td>
</tr>
<tr>
<td>32 11 23</td>
<td>Aggregate Base Course</td>
</tr>
<tr>
<td>32 13 13</td>
<td>Concrete Paving</td>
</tr>
<tr>
<td>32 16 21</td>
<td>Concrete Curbs, Gutters, and Walks</td>
</tr>
<tr>
<td>32 84 00</td>
<td>Planting Irrigation</td>
</tr>
</tbody>
</table>

## DIVISION 33– UTILITIES

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 05 16</td>
<td>Utility Structures</td>
</tr>
<tr>
<td>33 05 25</td>
<td>Support and Protection of Utilities</td>
</tr>
<tr>
<td>33 05 28</td>
<td>Trenching and Backfilling for Utilities</td>
</tr>
<tr>
<td>33 40 00</td>
<td>Storm Drainage Utilities</td>
</tr>
</tbody>
</table>
CONTRACT SPECIFICATIONS

SECTION 01 11 00

SUMMARY OF WORK

The provisions of BART Facility Standards, Standard Specifications Section 01 11 00 Summary of Work shall apply to the Work as modified herein.

Modify Article 1.01 A2 as follows:

2. The BART Facilities Standards, Standard Specifications, Release R 2.1.1 dated 02/2013 (BFS)

Modify Article 1.02, Contract Description, Completion Time, and Liquidate damages as follows:

1.02 CONTRACT DESCRIPTION

A. Contract Description: Construct a pedestrian plaza in Oakland with associated interfaces with the MacArthur BART Station, City of Oakland sidewalks, and CalTrans retaining walls. This work will be done on CalTrans property where BART has an existing easement. This work includes demolition of the existing MacArthur BART Plaza and constructing hardscape, bike station, site furnishings, removing and replacing existing art work, cleaning and applying paint to CalTrans structures, resetting utility grades, and other site work in compliance with BART Facilities Standards for Station Support Facilities."

B. Completion Time: Pursuant to Article GC8.3 of the General Conditions, Contractor shall complete all work indicated, specified and directed to be performed under the Contract within 180 calendar days from the effective date of Notice to Proceed.

C. Liquidated Damages. The amount of Liquidated Damages that will be assessed under the provisions of Article GC8.4.1 of the General Conditions is:

1. $1,000 per Day for each Day’s delay in completing all Contract Work, within the time specified in Article 1.02B.

Modify Article 1.03 Hours of Work as follows:

1.03 WORK ACCESS

A. Regular construction work shall be performed between the hours of 7:00 a.m. and 7:00 p.m., on weekdays.

B. Non-revenue hours are from:

1. 1:30 a.m. to 3:30 a.m. during weekdays
2. 1:30 a.m. to 5:30 a.m. on Saturday
3. 1:30 a.m. to 7:00 a.m. on Sunday

C. Work shall not be performed on Saturdays, Sundays or District holidays without prior approval from the Engineer. District-recognized holidays are as follows:
1. New Year’s Day-January 1
2. Dr. Martin Luther King, Jr. Day- First Monday after January 15
3. President Day- Third Monday in February
4. Memorial Day- Last Monday in May
5. Independence Day – July 4
6. Labor Day – First Monday in September
7. Veterans Day– Second week in November
8. Thanksgiving Day, fourth Thursday in November

D. Exceptions to the above hours of work will be permitted only upon written authorization from the Engineer.

1.04 WORK AREA AND WORK PERIODS

A. The work area required by Contractor for its use, parking, storage, etc., will be is shown on sheet C002.

B. Available work periods are from 7:00 a.m. to 7:00 p.m., Monday through Friday.

C. Additional work time may be available at the time of construction. However, for bidding purposes, use the hours specified in Article 1.03 above.

D. During Operations Hours, all passages, stairs, elevators and escalators within the passenger stations will be in use by BART patrons and shall not be obstructed by Contractor’s operations except as otherwise permitted by the Engineer. Patron Revenue Operations Hours are the time periods between 0400 hours and 2400, Monday through Friday, between 0600 hours and 2400, Saturday, and between 0800 hours and 2400 on Sunday.

Add Article 1.05 Contractor Security

1.05 CONTRACTOR SECURITY

A. Security at the work areas and Contractor’s storage areas shall be the responsibility of the Contractor. Contractor shall take all measures to prevent at all time entry to the storage and work areas by animals or unauthorized persons.

1.06 MEASUREMENT AND PAYMENT

A. Separate measurement and payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered incidental to the work of this Contract.

END OF SECTION 01 11 00
The provisions of BART Standard Specifications Section 01 20 00, Price and Payment Procedures shall apply to the Work.
SECTION 01 31 19

PROJECT MEETINGS

The provisions of BART Standard Specifications Section 01 31 19, Project Meetings shall apply to the Work.

END OF SECTION 01 31 19
The provisions of BART Standard Specifications Section 01 31 16, Construction Progress Schedules shall apply to the Work.
The provisions of BART Standard Specifications Section 01 32 33, Photographic Documentation shall apply to the Work.

END OF SECTION 01 32 33
The provisions of BART Standard Specifications Section 01 33 00, Submittal Procedures shall apply to the Work.
SECTION 01 33 23

SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

The provisions of BART Standard Specifications Section 01 33 23, Shop Drawings, Product Data and Samples shall apply to the Work.

END OF SECTION 01 33 23
The provisions of BART Standard Specifications Section 01 35 14, Operating System Interface shall apply to the Work.
SECTION 01 35 24

CONSTRUCTION SAFETY

The provisions of BART Standard Specifications Section 01 35 24, Construction Safety shall apply to the Work.

END OF SECTION 01 35 24
SECTION 01 42 19

REFERENCE STANDARDS

The provisions of BART Standard Specifications Section 01 42 19, Reference Standards shall apply to the Work.

END OF SECTION 01 42 19
SECTION 01 43 00

QUALITY ASSURANCE

The provisions of BART Facility Standards, Standard Specifications Section 01 43 00 Quality Assurance shall apply to the Work.

END OF SECTION 01 43 00
The provisions of BART Standard Specifications Section 01 43 38 Samples and Mockups shall apply to the Work.

END OF SECTION 01 43 38
The provisions of BART Standard Specifications Section 01 45 00 Quality Control shall apply to the Work.

END OF SECTION 01 45 00
The provisions of BART Standard Specifications Section 01 45 24 Testing Program Requirements shall apply to the Work.
The provisions of BART Standard Specifications Section 01 51 00 Temporary Utilities shall apply to the Work as modified herein.

Modify Article 1.05 as follows:

1.05 TEMPORARY ELECTRICAL AND WATER FACILITIES

   Power and electricity must be provided by the Contractor per Bart Facility Standards.
CONTRACT SPECIFICATIONS

SECTION 01 52 00
CONSTRUCTION FACILITIES

The provisions of BART Standard Specifications Section 01 52 00 Construction Facilities shall apply to the Work as modified herein.

1.04 TEMPORARY SANITARY FACILITIES

Contractor must provide restroom for its employees, and all persons involved in the Work and is not allowed to rely on station facilities.

1.12 TEMPORARY RIGID FENCING

1. Temporary chain link fencing will be required on the plaza to provide a physical barrier surrounding the work at all times.

2. Temporary chain link fencing will be kept clean of graffiti, upright, with a uniform color.

END OF SECTION 01 52 00
SECTION 01 57 00
TEMPORARY CONTROLS

The provisions of BART Standard Specifications Section 01 57 00 Temporary Controls shall apply to the Work.

END OF SECTION 01 57 00
CONTRACT SPECIFICATIONS

SECTION 01 58 00

PROJECT IDENTIFICATION

The provisions of BART Standard Specifications Section 01 58 00 Project Identification shall apply to the Work. The sign will include project funder identification. Layout graphics for the sign will be provided by the project architect.

END OF SECTION 01 58 00
The provisions of BART Standard Specifications Section 01 60 00 Product Requirements shall apply to the Work.
SECTION 01 64 13

DISTRICT-FURNISHED MATERIALS AND EQUIPMENT

The provisions of BART Facilities Standards, Standard Specifications, Release R3.0.1, dated January 2014, Section 01 64 13, District-Furnished Materials and Equipment, shall apply to the Work, except as modified herein.

PART 1 – GENERAL

1.03 MEASUREMENT AND PAYMENT: Delete Article 1.03A, B and substitute therefor the following:

A. Measurement: Installation of District-Furnished Materials and Equipment will not be measured separately for payment.

B. Payment: Installation of District-Furnished Materials and Equipment will be paid for as part of the Contract lump-sum price of the associated work, as indicated in the Bid Schedule of the Bid Form.

1.05 DISTRICT-FURNISHED MATERIALS AND DISTRICT-FURNISHED EQUIPMENT:

Delete Article 1.05A. and substitute therefor the following:

A. District-furnished materials and equipment are as shown on Contract Drawings:
   a. Two (2) Sign P3, Double-Post 2-Sided Map Cases
   b. Sign P4, Single-Post Kiosk
   c. Pylon

END OF SECTION 01 64 13
DISTRICT-FURNISHED MATERIALS AND EQUIPMENT

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SECTION 01 71 13

MOBILIZATION

The provisions of BART Standard Specifications Section 01 71 13 Mobilization shall apply to the Work as modified herein.

1.03 MEASUREMENT AND PAYMENT:

Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Bid Schedule of the Bid Form, or incidental to the Work.

1.08 Delete

END OF SECTION 01 71 13
SECTION 01 71 23
FIELD ENGINEERING

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Qualified services.
B. Lines and grades.
C. Survey of layout and performance.
D. Surveying accuracy and tolerances in setting survey stakes.

1.1 MEASUREMENT AND PAYMENT

A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Bid Schedule of the Bid Form, or incidental to the Work.

1.2 REFERENCES

A. National Oceanic and Atmospheric Administration (NOAA): "Surveying Standards"

1.3 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures, for submittal requirements and procedures.
B. Survey notes, drawings, and calculations shall be completed as the work progresses and one copy of each survey document shall be submitted to the District for record purposes.
C. Construction survey notes shall be provided to the Engineer within 48 hours after completion of the Contractor's survey.
D. Submit maps showing all final centerline, station, and other Contractor-installed monumentation, properly prepared and submitted to the Engineer for approval.

1.4 QUALIFIED SERVICES

A. Surveying services and field engineering services shall be performed under the direct supervision of a professional land surveyor or civil engineer currently licensed or registered in the State of California. A civil engineer providing field surveying shall have been registered prior to 1982 or have a current professional land surveyors license in the State of California.
1.5 LINES AND GRADES

A. Only such primary control lines, monuments, and bench marks will be set by the District as the District determines to be necessary to control establishment of the lines and grades required for completion of the Work. In general, these will consist of the primary horizontal and vertical control points indicated on the Contract Drawings. Work points shall be established by the Contractor for all major structures, all track alignments, and all roadway alignments. Survey monuments shall be set at each end of station platforms by the Contractor to establish platform finish elevations.

B. Primary control monuments set by the District shall be carefully preserved by the Contractor. In case such monuments are destroyed or damaged, they will be replaced at the District's earliest convenience. The Contractor will be charged for the cost of replacing or restoring monuments destroyed or damaged by the Contractor's operations. This charge will be deducted from any monies due or to become due the Contractor.

C. The Contractor shall temporarily suspend work at such points and for such reasonable times as the District may require for resetting monuments, and the Contractor will not be entitled to any additional compensation or extension of time therefore.

D. All other stakes or markers required to establish the lines and grades required for the completion of the Work shall be the responsibility of the Contractor.

1.6 SURVEYS FOR LAYOUT AND PERFORMANCE

A. Surveying Requirements: Perform all surveys for layout and performance of the Work, reduce the field notes, and make all calculations and drawings necessary to carry out such work. The Contractor shall check the relative positions of all monuments and benchmarks to be used and shall report any damaged or out-of-position monuments to the Engineer at once. The Contractor shall check such relative positions each time the Contractor uses such monument or benchmark.

B. Datum: The Contractor shall be responsible for correctly locating all lines and grades and for performing all measuring as required for the construction and completion of the Work from established reference points and information is shown on the Contract Drawings.

C. Equipment and Personnel: The Contractor's instruments and other survey equipment shall be accurate, suitable for the surveys required in accordance with recognized professional standards, and in proper condition and adjustment at all times. Perform all surveys under the direct supervision of a professional land surveyor or civil engineer currently licensed or registered in the State of California.

D. Field Notes and Records: Furnish the original pages of all survey records to the Engineer at intervals required by the Engineer. Furnish each field notebook to the Engineer when filled or completed.

E. Use by the Engineer: The Engineer may at any time use line and grade points and markers established by the Contractor. The Contractor's surveys are a part of the work and may be checked by the Engineer at any time. The Contractor shall be responsible for any lines, grades, or measurements which do not comply with specified or proper tolerances, or which are otherwise defective, and for any resultant defects in the work. The Contractor shall conduct resurveys or check surveys to correct errors indicated by review of the field notebooks or by check surveys performed by the Engineer.
1.2 SURVEYING ACCURACY AND TOLERANCES IN SETTING SURVEY STAKES

A. Surveying Accuracy: Control traverse field surveys and computations, including surveys of main control lines to determine horizontal and vertical alignment of major structure components, shall meet the accuracy requirements for Second Order, Class I Surveys as specified by the National Oceanic and Atmospheric Administration (NOAA). Staking for construction or equipment installations shall meet the accuracy requirements for Second Order, Class II Surveys as specified by NOAA.

B. Tolerances: The tolerances generally applicable in setting survey stakes shall be as set forth in Article 1.08.A above. Such tolerances shall not supersede stricter tolerances required by the Contract Drawings or Specifications, and shall not otherwise relieve the Contractor of responsibility for measurements in compliance therewith.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

Not Used

END OF SECTION 01 71 23
SECTION 01 74 14

CLEANING

PART 1 – GENERAL

1.1 SECTION INCLUDES
A. Cleaning and cleanup during construction.
B. Dust control.
C. Disposal of debris.
D. Final cleaning of station facilities and ancillary buildings.
E. Final site cleanup.

1.2 RELATED SECTIONS
A. Refer to Section 01 57 00 - Temporary Controls, for basic mud control and dust abatement requirements.
B. When demolition is involved, refer to Section 02 41 19 - Selection Structure Demolition, as applicable, for additional dust abatement requirements.

1.3 MEASUREMENT AND PAYMENT
A. Separate measurement or payment will not be made for work required under this Section. All costs in connection with the work specified herein will be considered to be included with the related item of work in the Bid Schedule of the Bid Form, or incidental to the Work.

1.4 CLEANING AND CLEANUP DURING CONSTRUCTION
A. The entire site of the Work, including the Contractor's work and storage areas, shall be kept in a neat, clean, and orderly condition at all times during the course of this Contract. The Engineer may, at any time during construction, order a general cleanup of the site as a part of the Work, and there shall be no additional cost to the District therefore. The Contractor shall provide general daily clean-up and disposal service for removal of waste, rubbish, trash, and debris away from the jobsite.
B. Perform cleaning of all facilities and ancillary buildings as required during construction to prevent accumulations of dust, dirt, soil, trash, and debris, so that a clean and safe working environment will be present at all times.
C. Walkways or designated pathways for authorized visitors shall be kept broom clean at all times. Walkways over exposed earth surfaces shall also be kept neat and free of pebbles and other obstacles to walking comfortably, equivalent to broom clean of paved surfaces.
D. The Contractor shall remove all graffiti placed during the course of the Work within the Contractor’s enclosed secured areas at the work site. The Contractor shall remove the graffiti within 24 hours after its detection in these areas.

1.5 DUST CONTROL

A. Clean interior spaces prior to the start of finish painting and the application of other finishes, and continue cleaning as required until such work is completed.

B. Schedule operations to prevent dust and other contaminants, resulting from cleaning operations, from adhering to set or newly finished surfaces.

C. Also, schedule operations to prevent dust and other flying particles from contaminating sensitive train control equipment in Train Control Rooms. Enforce tight controls as required to provide absolute dust control and abatement in these areas.

1.6 DISPOSAL OF DEBRIS

A. Dispose of waste, trash, and debris in a safe, acceptable manner, in accordance with applicable laws and ordinances and as prescribed by authorities having jurisdiction. Bury no waste material and debris on the site. Burning of trash and debris on the site will not be permitted.

B. Location of disposal site for trash and debris and length of haul are the Contractor’s responsibility.

1.7 FINAL CLEANING OF STATION FACILITIES AND ANCILLARY BUILDINGS

A. Prior to final inspection by the District, and after all construction work is essentially complete, thoroughly clean station facilities and ancillary buildings and structures, utilizing professional building cleaners where appropriate.

B. Items to be cleaned include all glass, doors, hardware, opening frames, grilles, trim, exposed non-ferrous metal surfaces, plastics, floor coverings, light fixtures and plates, plumbing fixtures and trim, and all finish surfaces throughout the construction.

C. Vacuum-clean where appropriate and remove all spots, smears, dust, debris, hand prints, and defacements of every sort, including those of vandals. Use commercial cleaning compounds where necessary.

D. Follow the recommendations of the manufacturers of the materials and items to be cleaned for all cleaning, polishing, and treatment such as waxing or sealing. Polish all stainless steel and other non-ferrous metal surfaces.

E. Clean permanent filters of the air-conditioning system and replace disposable filters of units operated during construction. Clean ducts, blowers, and coils if units were operated without filters during construction.
1.8 FINAL SITE CLEANUP

A. Prior to Final Inspection, thoroughly clean the entire site and put it into a clean and neat, acceptable condition. Remove from the site all construction waste and unused materials, dunnage, loose rock and stones, excess earth, and debris of any description resulting from the Work.

B. Hose down and scrub clean where necessary all pavement and paved walks.

C. Thoroughly remove mortar droppings from concrete slabs and pavement where they occur. Hose down and scrub clean all concrete flatwork and exposed vertical surfaces of concrete and masonry.

D. Free and clear all new and existing drainage systems.

E. Clean and protect all conduit openings.

F. Prior to Final Inspection, the Contractor shall remove all markings from streets, sidewalks, walls and other District and City infrastructure within the enclosed secured area at the work sites.

PART 2 – PRODUCTS

Not Used

PART 1 – EXECUTION

Not Used

END OF SECTION 01 74 14
PART 1 - GENERAL

1.1 WORK INCLUDED
A. Furnish and install all site furnishings and complete with all related appurtenances and incidentals as required.

1.2 RELATED SECTIONS
A. Section 32 16 21: Concrete Curbs, Gutters and Walks

1.3 QUALITY ASSURANCE
A. Materials and method of construction to comply with the following standards:
   1. American Institute of Steel Construction (AISC)
   2. American Iron and Steel Institute (AISI)
   3. American National Standards Institute (ANSI)
   5. American Welding Society (AWS)
   6. American Disabilities Association 1990 (ADA)
   7. California Accessibility Reference Manual, Title 24
   8. Federal Hazardous Substances Act
1.4 SUBMITTALS

A. Submit in accordance with Section 01 33 00.
B. Submit catalog cut sheets for standard manufactured items indicating color, size, finish, material and method of attachment.
C. Submit Shop Drawing for the complete custom assembly of metal bench. Shop drawing to include color, finish, material, size, number of all components and method of attachment.

1.5 COORDINATION

A. Coordinate the work of all trades, including plumbers, electrical, etc., such that there is ample time to install related work, sleeves and conduit, prior to installation of furnishings.

1.6 PRODUCT HANDLING

A. Ship and store materials in such a way as to prevent damage due to stains, discoloration, scratches, dirt or any other causes. Store unassembled components indoors in a clean and dry location. Store and handle materials in such a way as to prevent abrasion or other damage.

1.7 FABRICATION & WORKMANSHIP

A. Fabricate all site furnishings and play equipment in the shop. Fabricate as completely as possible to keep field assembly to a minimum.
B. Provide all miscellaneous metal items and adhesives required for completion of the work, even though not specifically shown or identified.
C. Provide Owner with tools to loosen and tighten all vandal proof connectors.
D. Provide Owner with touch up paint for all site furnishings; one container for each color installed.
E. Conceal all connections where possible; otherwise use vandal-proof connectors.
F. Workmanship and finish to be in accordance with good practice and the construction documents. Finish work to be firm, in true alignment, and properly squared, with smooth clean uniform appearance, without waves, distortions, holes, cracks, stains or discolorations. Joinings to be close-fitting. Finish work to have no exposed unsightly anchors or fastenings and present no hazardous, unfinished or unsafe protrusions, offsets, burrs, raw edges, or sharp corners. All work to have provisions for expansion and contraction or shrinkage as necessary to prevent cracks, buckling and warping.
G. Warranty all equipment and workmanship to remain free of defects due to faulty materials or workmanship for a period of 24 months after the date of completion and Final Acceptance.
1.8 DEFINITIONS

A. The “Owner’s Representative” is the person, appointed by the Owner, to represent their interests. The Owner’s Representative will be on site frequently and regularly during construction. Where needed, the Owner’s Representative will identify the need for field visits by the landscape architect or other consultants.

PART 2 - PRODUCTS

2.1 GENERAL

A. Miscellaneous Metals


B. Provide all miscellaneous metal items required for completion of the Contract, even though not specifically shown or identified.

C. Installation to be made with vandal-proof connectors where possible.

2.2 SITE FURNISHINGS

A. Bench:


B. Bike rack:

1. Double deck floor mount bike rack: “Dero Decker” single sided bicycle racks manufactured by DERO BIKE RACK CO. (504 Malcolm Avenue SE, Suite 100, Minneapolis, MN 55414, 1-888-337-6729, Website: www.dero.com), or equal.

2. Double sided floor mount bike rack: “Ultra Space Saver Double Sided” bicycle racks manufactured by DERO BIKE RACK CO. (504 Malcolm Avenue SE, Suite 100, Minneapolis, MN 55414, 1-888-337-6729, Website: www.dero.com), or equal.


5. Hot-dipped galvanized finish.

6. Provide shop drawing for each individual bike rack installation detail. Installation to be based on manufacturer’s recommendation.

7. Provide setback from each individual bike rack per manufacturer’s recommendation.
C. Trash Receptacle:

PART 3 - EXECUTION

3.1 INSPECTION
   A. Prior to commencement of work described in this section, carefully inspect installed work, and verify all such work is correct and complete. Immediately notify the Owner's Representative of any discrepancy before proceeding with work.

3.2 INSTALLATION
   A. Install all furnishings in accordance with manufacturer's recommendations.
   B. Furnish all anchors, bolts, and appurtenances required for complete installation to ensure proper fit and accurate placements.
   C. Place all furnishings in the proper location, plumb, level, square, in true alignment and firmly anchored.
   D. Install furnishings in concrete footings, per the manufacturer's recommendation or as shown on detail drawing
   E. Benches: Install bench seats level at +/- 16" above finish pavement grade.

3.3 ADJUSTING
   A. Check all bolts, nuts and other connections for proper fit and tightness.
   B. Check components for proper alignment, fit and tolerances.
   C. Check all finishes for damage. Replace damaged components.

3.4 CLEANING
   A. At the end of each working day, remove all empty containers from the site, and remove all debris from walks and paving. Sweep all walks and paving clean.
   B. Final Clean-up: In addition to the daily clean-up, haul from the site and legally dispose of all waste materials.
   C. Immediately prior to acceptance, clean all exposed surfaces of soil and discoloration. Follow recommendations of component manufacturer for cleaning methods and materials.
SITE FURNISHINGS

3.5 PROTECTION

A. Protect all furnishings from damage by subsequent work. Replace damaged furnishings at no additional cost to Owner.

END OF SECTION 12 94 00
The provisions of BART Standard Specifications Section 01 77 00 Closeout Procedures shall apply to the Work.
The provisions of BART Standard Specifications Section 01 78 39 Project Record Documents shall apply to the Work.

END OF SECTION 01 78 39
SECTION 02 41 00

DEMOLITION

The provisions of BART Standard Specifications Section 02 41 00 Demolition shall apply to the Work.

END OF SECTION 02 41 00
The provisions of BART Standard Specifications Section 02 41 19 Selective Structure Demolition shall apply to the Work.

PART 3 - EXECUTION

3.05 SALVAGING

A. Certain items, as indicated, shall be salvaged and used in the Work or delivered to a District storage facility as directed.

1. Salvage existing sculpture artwork, reinstalled per existing detail.

END OF SECTION 02 41 19
The provisions of BART Standard Specifications Section 03 05 15 Portland Cement Concrete shall apply to the Work.
The provisions of BART Standard Specifications Section 03 11 00, Concrete Forming shall apply to the Work.

END OF SECTION 03 11 00
The provisions of BART Standard Specifications Section 03 15 00, Concrete Accessories shall apply to the Work.
The provisions of BART Standard Specifications Section 03 20 00, Concrete Reinforcing shall apply to the Work.
SECTION 03 30 00
CAST-IN-PLACE CONCRETE

The provisions of BART Standard Specifications Section 03 30 00, Cast-In-Place Concrete shall apply to the Work.

END OF SECTION 03 30 00
SECTION 03 35 00
CONCRETE FINISHING

The provisions of BART Standard Specifications Section 03 35 00 Concrete Finishing shall apply to the Work.

END OF SECTION 03 35 00
SECTION 05 05 22
METAL WELDING

The provisions of BART Standard Specifications Section 05 05 22 Metal Welding shall apply to the Work.

END OF SECTION 05 05 22
The provisions of BART Standard Specifications Section 05 12 00 Structural Steel Framing shall apply to the Work as modified herein.

PART 1 – GENERAL

1.03 MEASUREMENT AND PAYMENT

Separate measurement or payment will not be made for work required under this Section. All cost in connection with the work specified herein will be considered to be included with the related item of work in the Bid Schedule of the Bid Form, or incidental to the Work.

END OF SECTION 05 12 00
SECTION 05 50 00

METAL FABRICATIONS

The provisions of BART Standard Specifications Section 05 50 00 Metal Fabrications shall apply to the Work as modified herein.

END OF SECTION 05 50 00
SECTION 05 80 00

STAINLESS STEEL STATION ID PYLON

The BART Standard Specifications are supplemented by the addition of the following new specification Section 05 80 00, Stainless Steel Station ID Pylon.

These signs will be provided by BART and delivered to the site. Handle Stainless Steel Pylon on site to a minimum; exercise care to avoid damaging metal finishes.

INSTALLATION, GENERAL

A. Provide anchorage devices and fasteners where shown or as necessary for securing stainless steel items to in-place construction; including, threaded fasteners for concrete inserts, anchor bolts, and other connectors as required.

B. Perform cutting, drilling and fitting required for installation of steel railings. Set products accurately in location, alignment and elevation, plumb, level and true, measured from established lines and levels. Provide temporary bracing or anchors in formwork for items which are to be built into concrete or similar construction.

C. Fit exposed connections accurately together to form tight, hairline joints or, where indicated, with uniform reveals and spaces as shown. Where cutting, welding and grinding are required for proper shop fitting and jointing of stainless steel rail items, restore finishes to eliminate any evidence of such corrective work.

D. Do not cut or abrade finishes which cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing or provide new units as required.

E. Restore protective coverings which have been damaged during shipment or installation of the work. Remove protective coverings only when there is no possibility of damage from other work yet to be performed at the same location.

1. Retain protective coverings intact and remove simultaneously from similarly finished items to preclude non-uniform weathering and discoloration.

F. Field Welding: Comply with applicable AWS specification for procedures of manual shielded metal-arc welding, for appearance and quality of welds made, and for methods used in correcting welding work. Grind exposed welded joints smooth and restore finish to match finish of adjacent rail surfaces.

3.03 INSTALLATION OF STAINLESS STEEL PYLONS

A. Adjust stainless steel pylon prior to anchoring to ensure matching alignment at abutting joints. Space posts at interval indicated but not less than that required by design loadings.
B. Anchor stainless steel signposts to fittings as detailed.

C. Expansion Joints: Provide expansion joints at locations indicated on approved shop drawings.

D. Contractor shall employ a utility locator to indentify the presence of buried utilities prior the excavating for foundations.

3.04 PROTECTION

A. From the commencement until the completion and final acceptance of the work, the care and protection of all permanent work and all temporary work as may be required remains with the contractor. Provide, install, and maintain covering, enclosures, and shelters necessary and/or temporary protective coverings approved by fabricator to protect the permanent work from damage. Remove protective covering at time of Substantial Completion.

B. Any portion of the work damaged and/or disfigured by accident or other cause during the time between the finishing of the portion and the completion of the whole work shall be promptly, neatly, and satisfactorily repaired or reconstructed and the work as a whole left without blemish at final completion, at the Contractor’s expense. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units as required.

3.05 WARRANTY

A. The manufacturer shall provide a written product warranty to BART, indicating that the product has been tested and has been in use for a sufficient period of time to assure its safety and durability.

3.06 MAINTENANCE

A. The manufacturer / fabricator shall provide a written description of recommended routine maintenance procedures and a written description of replacement parts, showing all components of the equipment installed.

END OF SECTION 05 80 00
SECTION 07 60 00
FLASHING AND SHEET METAL

The provisions of BART Standard Specifications Section 07 60 00 Flashing and Sheet Metal shall apply to the Work.

END OF SECTION 07 60 00
The provisions of BART Standard Specifications Section 08 11 00 Metal Doors and Frames shall apply to the Work as modified herein.
SECTION 08 71 00

DOOR HARDWARE

The provisions of BART Standard Specifications Section 08 71 00 Door Hardware shall apply to the Work modified herein.

END OF SECTION 08 71 00
SECTION 09 91 00
PAINTING

The provisions of BART Standard Specifications Section 09 91 00 Painting shall apply to the Work as modified herein.

PART 1 - GENERAL
Freeway Painting
Painting on underside of freeway must follow Section 59 of Caltrans Standard Documents 2010

PART 2 - PRODUCTS
Paint Materials

A. Type and Manufacturer

14. Floor Enamel
   a. Provide exterior grade 100% acrylic latex paint for ceiling. Green Seal Certified to be low VOC, not to exceed 100 g/L.
   b. Color:
      1. 'MacArthur Station' wall text: Pantone Process Blue C, semi-gloss
      2. 'MacArthur Station' Wall background: Pantone white, semi-gloss
      3. Reflective ceiling: white, semi-gloss

Section 51 of the Standard Caltrans Specifications
the guideline on section 59 of Standard Documents of 2010

END OF SECTION 09 91 00
The provisions of BART Standard Specifications Section 09 96 33 Graffiti-Resistant Coatings shall apply to the Work.

END OF SECTION 09 96 33
The provisions of BART Standard Specifications Section 10 40 00 Safety Specialties shall apply to the Work.

END OF SECTION 10 40 00
SECTION 12 94 00
SITE FURNISHINGS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install all site furnishings and complete with all related appurtenances and incidentals as required.

1.02 RELATED SECTIONS
A. Section 32 16 21: Concrete Curbs, Gutters and Walks

1.03 QUALITY ASSURANCE
A. Materials and method of construction to comply with the following standards:
   1. American Institute of Steel Construction (AISC)
   2. American Iron and Steel Institute (AISI)
   3. American National Standards Institute (ANSI)
   5. American Welding Society (AWS)
   6. American Disabilities Association 1990 (ADA)
   7. California Accessibility Reference Manual, Title 24
   8. Federal Hazardous Substances Act
SITE FURNISHINGS

1.04 SUBMITTALS

A. Submit in accordance with Section 01 33 00.

B. Submit catalog cut sheets for standard manufactured items indicating color, size, finish, material and method of attachment.

C. Submit Shop Drawing for the complete custom assembly of metal bench. Shop drawing to include color, finish, material, size, number of all components and method of attachment.

1.05 COORDINATION

A. Coordinate the work of all trades, including plumbers, electrical, etc., such that there is ample time to install related work, sleeves and conduit, prior to installation of furnishings.

1.06 PRODUCT HANDLING

A. Ship and store materials in such a way as to prevent damage due to stains, discoloration, scratches, dirt or any other causes. Store unassembled components indoors in a clean and dry location. Store and handle materials in such a way as to prevent abrasion or other damage.

1.07 FABRICATION & WORKMANSHIP

A. Fabricate all site furnishings and play equipment in the shop. Fabricate as completely as possible to keep field assembly to a minimum.

B. Provide all miscellaneous metal items and adhesives required for completion of the work, even though not specifically shown or identified.

C. Provide Owner with tools to loosen and tighten all vandal proof connectors.

D. Provide Owner with touch up paint for all site furnishings; one container for each color installed.

E. Conceal all connections where possible; otherwise use vandal-proof connectors.

F. Workmanship and finish to be in accordance with good practice and the construction documents. Finish work to be firm, in true alignment, and properly squared, with smooth clean uniform appearance, without waves, distortions, holes, cracks, stains or discolorations. Joinings to be close-fitting. Finish work to have no exposed unsightly anchors or fastenings and present no hazardous, unfinished or unsafe protrusions, offsets, burrs, raw edges, or sharp corners. All work to have provisions for expansion and contraction or shrinkage as necessary to prevent cracks, buckling and warping.

G. Warranty all equipment and workmanship to remain free of defects due to faulty materials or workmanship for a period of 24 months after the date of completion and Final Acceptance.
1.08 DEFINITIONS
   A. The “Owner’s Representative” is the person, appointed by the Owner, to represent their interests. The Owner’s Representative will be on site frequently and regularly during construction. Where needed, the Owner’s Representative will identify the need for field visits by the landscape architect or other consultants.

PART 2 - PRODUCTS

2.01 GENERAL
   A. Miscellaneous Metals
   B. Provide all miscellaneous metal items required for completion of the Contract, even though not specifically shown or identified.
   C. Installation to be made with vandal-proof connectors where possible.

2.02 SITE FURNISHINGS
   A. Bench:
   B. Bike rack:
      1. Double deck floor mount bike rack: “Dero Decker” single sided bicycle racks manufactured by DERO BIKE RACK CO. (504 Malcolm Avenue SE, Suite 100, Minneapolis, MN 55414, 1-888-337-6729, Website: www.dero.com), or equal.
      2. Double sided floor mount bike rack: “Ultra Space Saver Double Sided” bicycle racks manufactured by DERO BIKE RACK CO. (504 Malcolm Avenue SE, Suite 100, Minneapolis, MN 55414, 1-888-337-6729, Website: www.dero.com), or equal.
5. Hot-dipped galvanized finish.

6. Provide shop drawing for each individual bike rack installation detail. Installation to be based on manufacturer’s recommendation.

7. Provide setback from each individual bike rack per manufacturer’s recommendation.

C. Trash Receptacle:


PART 3 - EXECUTION

3.01 INSPECTION

A. Prior to commencement of work described in this section, carefully inspect installed work, and verify all such work is correct and complete. Immediately notify the Owner's Representative of any discrepancy before proceeding with work.

3.02 INSTALLATION

A. Install all furnishings in accordance with manufacturer’s recommendations.

B. Furnish all anchors, bolts, and appurtenances required for complete installation to ensure proper fit and accurate placements.

C. Place all furnishings in the proper location, plumb, level, square, in true alignment and firmly anchored.

D. Install furnishings in concrete footings, per the manufacturer’s recommendation or as shown on detail drawing

E. Benches: Install bench seats level at +/- 16” above finish pavement grade.

3.03 ADJUSTING

A. Check all bolts, nuts and other connections for proper fit and tightness.

B. Check components for proper alignment, fit and tolerances.

C. Check all finishes for damage. Replace damaged components.
3.04 CLEANING

A. At the end of each working day, remove all empty containers from the site, and remove all debris from walks and paving. Sweep all walks and paving clean.

B. Final Clean-up: In addition to the daily clean-up, haul from the site and legally dispose of all waste materials.

C. Immediately prior to acceptance, clean all exposed surfaces of soil and discoloration. Follow recommendations of component manufacturer for cleaning methods and materials.

3.05 PROTECTION

A. Protect all furnishings from damage by subsequent work. Replace damaged furnishings at no additional cost to Owner.

END OF SECTION 12 94 00
SECTION 20 10 13
COMMON MATERIALS AND METHODS FOR FACILITY SERVICES-FIRE SUPPRESSION, PLUMBING AND HVAC

The provisions of BART Standard Specifications Section 20 10 13 Common Materials and Methods for Facility Services-Fire Suppression, Plumbing and HVAC shall apply to the Work.

END OF SECTION 20 10 13
The provisions of BART Standard Specifications Section 20 20 13 Pipe Sleeves, Supports and Anchors for Facility Services shall apply to the Work.

END OF SECTION 20 20 13
SECTION 20 40 13
IDENTIFICATION FOR FACILITY SERVICES

The provisions of BART Standard Specifications Section 20 40 13 Identification for Facility Services shall apply to the Work.

END OF SECTION 20 40 13
SECTION 20 50 13

RACEWAYS FOR FACILITY SERVICES

The provisions of BART Standard Specifications Section 20 50 13 Raceways for Facility Services shall apply to the Work.

END OF SECTION 20 50 13
SECTION 20 50 16

UNDERGROUND DUCTWORK AND STRUCTURES FOR FACILITY SERVICES

The provisions of BART Standard Specifications Section 20 50 16 Underground Ductwork and Structures for Facility Services shall apply to the Work.

END OF SECTION 20 50 16
SECTION 20 70 13

COMMON MATERIALS AND METHODS FOR ELECTRONIC SERVICES

The provisions of BART Standard Specifications Section 20 70 13 Common Materials and Methods for Electronic Services shall apply to the Work.

END OF SECTION 20 70 13
SECTION 20 70 26

COMMON MATERIALS AND METHODS FOR ELECTRICAL SYSTEMS

The provisions of BART Standard Specifications Section 20 70 26 Common Materials and Methods for Electrical Systems shall apply to the Work.

END OF SECTION 20 70 26
SECTION 22 13 01

SANITARY SEWAGE

The provisions of BART Standard Specifications Section 22 13 01 Sanitary Sewage shall apply to the Work.

END OF SECTION 22 13 01
The provisions of BART Standard Specifications Section 22 14 01 Storm Drainage shall apply to the Work.
SECTION 26 05 24

LOW VOLTAGE WIRES AND CABLES

The provisions of BART Standard Specifications Section 26 05 24, Low Voltage Wires and Cables shall apply to the Work.

END OF SECTION 26 05 24
SECTION 26 05 26

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

The provisions of BART Standard Specifications Section 06 05 26 Grounding and Bonding for Electrical Systems shall apply to the Work.

END OF SECTION 26 05 26
SECTION 26 24 24
CIRCUIT BREAKERS AND PANELBOARDS

The provisions of BART Standard Specifications Section 26 24 24 Circuit Breakers and Panelboards shall apply to the Work.

END OF SECTION 26 24 24
SECTION 26 50 00

LIGHTING

The provisions of BART Standard Specifications Section 26 50 00 Lighting to apply to the Work as modified herein.

PART 2 - PRODUCTS

2.02 LAMPS

D. Light Poles Heads


END OF SECTION 26 50 00
The provisions of BART Standard Specifications Section 28 10 01 Access Control System shall apply to the Work as modified herein.

PART 2 - PRODUCTS

2.03

SECTION 28 41 29
CLOSED CIRCUIT TELEVISION SYSTEM

The provisions of BART Standard Specifications Section 28 41 29 Closed Circuit television System shall apply to the Work as modified herein.

END OF SECTION 28 41 29
SECTION 31 00 00

EARTHWORK

The provisions of BART Standard Specifications Section 31 00 00 Earthwork shall apply to the Work.

END OF SECTION 31 00 00
SECTION 31 11 00
CLEARING AND GRUBBING

The provisions of BART Standard Specifications Section 31 11 00 Clearing and Grubbing shall apply to the Work.

END OF SECTION 31 11 00
The provisions of BART Standard Specifications Section 31 50 00 Excavation Support and Protection shall apply to the Work.
CONTRACT SPECIFICATIONS

SECTION 32 11 17

AGGREGATE SUBBASE COURSES

The provisions of BART Standard Specifications Section 32 11 17 Aggregate Subbase Courses shall apply to the Work.

END OF SECTION 32 11 17
SECTION 32 11 23

AGGREGATE BASE COURSE

The provisions of BART Standard Specifications Section 32 11 23 Aggregate Base Course shall apply to the Work.

END OF SECTION 32 11 23
SECTION 32 13 13

CONCRETE PAVING

The provisions of BART Standard Specifications Section 32 13 13 Concrete Paving shall apply to the Work.

END OF SECTION 32 13 13
SECTION 32 16 21
CONCRETE CURBS, GUTTERS AND WALKS

The provisions of BART Standard Specifications Section 32 16 21 Concrete Curbs, Gutters and Walks to apply to the Work as modified herein.

PART 2 - PRODUCTS

2. 02


L. Tactile Warning Tile: “Surface Applied Tactile Warning Tile”, 12” x 12” square X ¼” thick, color yellow as manufacture by Armor-Tile Transit Systems (800-682-2525).

M. Integral colored concrete additive: Concrete Color Type 2- lampblack in dry form is to be mixed in accordance with the requirements of ASTM “Standard Specifications for Lampblack,” Designation D 209, in the proportion of 20lbs per cubic yard of concrete.

N. Sealer: “Colorcure Concrete Sealer” for integral colored concrete paving as manufactured by LM Scofield Company (800-800-9900), or approved equivalent. Semi-gloss finish. Intent is to match existing top seeding as closely as possible.

END OF SECTION 32 16 21
SECTION 32 84 00

PLANTING IRRIGATION

The provisions of BART Standard Specifications Section 32 84 00, Planting Irrigation shall apply to the Work.

END OF SECTION 32 84 00
SECTION 33 05 16

UTILITY STRUCTURES

The provisions of BART Standard Specifications Section 33 05 16 Utility Structures shall apply to the Work.
The provisions of BART Standard Specifications Section 33 05 25 Support and Protection of Utilities shall apply to the Work.
The provisions of BART Standard Specifications Section 33 05 28 Trenching and Backfilling for Utilities shall apply to the Work.
The provisions of BART Standard Specifications Section 33 40 00 Storm Drainage Utilities shall apply to the Work.

END OF SECTION 33 40 00
### SUMMARY OF EASEMENT PARCELS TO BART

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### SUMMARY OF JOINT USE PARCELS TO BART

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### CLASS II

- **Purpose**: Access to facility by private or public transit vehicles, including BART and AC Transit.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### JOINT USE PURPOSES

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access controlled by BART police and/or BART/AC Transit security personnel.
- **Control**: Access limited to BART personnel and maintenance vehicles.

### EASEMENT PURPOSES

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### EASEMENT TYPE A: (Station Area)

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### EASEMENT TYPE B: (Station Area)

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### EASEMENT TYPE C: (Station Area)

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### EASEMENT TYPE D: (Corridor for BART’s Trackage)

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.

### EASEMENT TYPE E: ()).

- **Purpose**: Access by non-BART employees for maintenance and operation of BART facilities.
- **Location**: Area shown as “EASEMENT AREA”.
- **Restrictions**: Access limited to BART personnel and maintenance vehicles.
- **Control**: Access controlled by BART police and/or BART/AC Transit security personnel.