REQUEST FOR QUALIFICATIONS

CONSTRUCTION MANAGER / GENERAL CONTRACTOR
(CM/GC) SERVICES

BANNOCK STREET STREETSCAPE IMPROVEMENTS, 12TH TO 16TH STREETS

PROPOSALS DUE: MARCH 21, 2024 by 3 P.M. local time

February 28, 2024

Dear Proposer:

In accordance with the qualification-based selection process set forth in Idaho Code § 67-2320, Capital City Development Corporation (CCDC) will accept submissions about qualifications to perform Construction Manager / General Contractor (CM/GC) services for its Bannock Street Streetscape Improvements Project between 12th and 16th Streets. Proposers must be licensed in Idaho with both construction manager and public works contractor licenses.

CCDC seeks to hire a CM/GC to deliver a complex, interagency public works improvements project located in the Westside Urban Renewal District. This project will incorporate construction of streetscape improvements, pavement rehabilitation, added traffic signals at 15th and 16th streets, stormwater modifications, and replacement of a canal structure. The project will include unique features such as suspended pavement systems, street furnishings, traffic signal infrastructure, pedestrian facility reconstruction, and canal replacement in the public right-of-way.

The project is a partnership between the Ada County Highway District (ACHD) and CCDC, which will be memorialized in an Interagency Cost Share Agreement. Generally, ACHD is responsible for funding all pavement rehabilitation and the replacement of Boise City Canal structure 1489 across Bannock St east of 14th Street. CCDC is responsible for funding all remaining work.

Proposals must be delivered **electronically** prior to **3:00 p.m. local time on March 21, 2024** at this email address: **bids@ccdcboise.com.** Proposals will be evaluated on the basis of qualifications as specified in this Request for Qualifications (RFQ). A selection committee will evaluate each of the proposals and may choose to conduct interviews with one or more of the Proposers.

CCDC reserves the right to reject any and all proposals, to waive any irregularities in the proposals received, and to accept the proposal that is in the best interest of CCDC and the public. The issuance of this RFQ and the receipt and evaluation of proposals does not obligate CCDC to award a contract. CCDC will pay no costs incurred by Proposers in responding to this RFQ. CCDC, in its discretion, may cancel this process at any time prior to execution of a contract without liability.

A Pre-Proposal Meeting will be held via ZOOM on March 6, 2024, at 10:00 am. Attendance is strongly recommended but not required. Information about the Pre-Proposal Meeting is provided in Section 4.1 of this document.

CCDC appreciates your interest in meeting the needs of the agency and the citizens of Boise.

Kathy Wanner
Contracts Manager

CAPITAL CITY DEVELOPMENT CORP

121 N 9TH ST, SUITE 501 BOISE, ID 83702
208-384-4264 WWW.CCDCBOISE.COM

INSTRUCTIONS TO PROPOSERS

1.1 Proposal Information

Please follow these instructions for submitting a proposal.

PROPOSAL DEADLINE is 3:00 p.m. local time, March 21, 2024

The proposal must be submitted electronically by email to: bids@ccdcboise.com

Please include this subject line on the email:

"RFQ SUBMITTAL: CM/GC SERVICES – BANNOCK STREET STREETSCAPE IMPROVEMENTS, 12TH to 16TH STREETS"

All required submittal documents must be ***signed and dated*** and must be submitted by email either in one PDF or a separate PDF of each required document. Late or incomplete submittals will not be accepted; CCDC takes no responsibility for submittals received after the Proposal Deadline or incomplete in any way. Respondent assumes full responsibility for the timely submittal of all proposal documents via the email process.

PROJECT INFORMATION

2.1 Background

In 2023, CCDC began the Bannock Street Streetscape Improvement Project to update streetscapes and improve mobility and safety along Bannock Street between 12th and 16th Streets. The project's purpose is to create a more active and accessible urban environment for all modes of travel.

The improvements planned for Bannock Street include various elements designed to create consistent and cohesive streetscapes. These enhancements will include upgraded sidewalks, enhanced lighting, increased greenery, and improved intersection safety measures. CCDC is partnering with ACHD to perform pavement rehabilitation along the corridor and replace a canal structure that crosses Bannock Street east of 14th Street.

CCDC hired CSHQA, Inc. as its Design Professional of Record for the project. CSHQA in coordination with HDR, Inc. and Musgrove Engineering, have initiated final design activities for the project. The Project received Design Review approval in September 2023 and 60% design plans were submitted to agencies for review in December 2023. The design team will be working closely with the CM/GC during pre-construction and construction phases.

2.2 Project Budget

CCDC has budgeted approximately $3.5M for CM/GC Pre-Construction Services and Construction of the CCDC-related costs for streetscape improvements and added traffic signals at 15th and 16th Streets. Consultant design costs and ACHD improvements to be reimbursed by ACHD are not included in the above construction budget.

Budget control is critical to the success of this project. The CM/GC shall provide current market pricing as a basis of its cost estimates during design. Furthermore, the CM/GC will be expected to make the necessary recommendations so that the final construction cost for the work does not exceed CCDC and ACHD's available budgets.

2.3 Contemplated Improvements

The following summarizes the improvements to be delivered by the CM/GC through multiple bid packages. Please see Exhibit C for a depiction of these improvements.

- **Pedestrian Facility Upgrades**
  - Replacement of existing non-compliant facilities with ADA-compliant facilities.
  - Construction of sidewalk bulbouts (i.e. curb extensions) at key locations.

- **Streetscape Improvements**
  - Reconstruction of streetscapes compliant with the City of Boise's Streetscape Standards, including suspended pavement systems.
  - Replacement of irrigation system and street trees.
  - Installation of historic light pole assemblies, bike racks, and precast concrete planters.
  - Urban Concrete Streetscapes: Bannock Street between 12th and 13th Street and the north side of Bannock Street between 13th and 14th Street. Improvements to the west side of 13th Street between Bannock Street and the alley are being included as a potential bid alternate based on project costs. Pre-construction assistance desired to determine feasibility.
  - Neighborhood Streetscapes: Bannock Street between 14th and 16th Streets.

- **Stormwater Infrastructure Improvements**
  - Upgrades to existing stormwater collection and routing system to accommodate other improvements included in this project.

- **Pavement Reconstruction**
  - 2" mill and inlay of asphalt pavement within the project limits

- **Canal Crossing Replacement**
  - Replace the Boise City Canal structure 1489 across Bannock St east of 14th Street

- **Pending Approval: Signalization of 15th and 16th Street Intersections**
  - Add traffic signals at the 15th and 16th Street intersections.

2.3 Project Schedule

CSHQA submitted 60% design plans for agency review in December 2023 and anticipates completing the project design in Summer 2024. The successful CM/GC will be given the 95% design plans in May 2024 in order to develop an initial estimate. Preconstruction is expected to start in April 2024 and continue until the last Guaranteed Maximum Price (GMP) is approved. Construction is expected to start fall 2024 and be complete in 2025. The schedule contemplates that winter construction will be mandatory to meet the project deadline.

2.4 CM/GC Scope of Services

All CM/GC contracted services must be performed by staff properly licensed in the State of Idaho. The following services are anticipated in the CM/GC Services agreement with CCDC. The descriptions are illustrative in nature and not exhaustive. The scope of services will be negotiated after this RFQ selection process has concluded.

Preconstruction Phase for Design, Bidding, and Long Lead Time Procurement Services:

- Work with CCDC staff and the design team to review the project and visit the work areas to become familiar with the project;
- Work cooperatively with other agencies including the City of Boise and ACHD, as well as owners of adjacent properties;
- Review draft design drawings and specifications to identify clarity and constructability issues;
- Provide cost estimate at 95% design milestone, and as otherwise needed;
- Work with CCDC staff and the design team to value engineer the design and reconcile budget overruns as needed;
- Research and coordinate with specialty contractors and vendors on specialized items;
- Work with staff to refine the project schedule and define the logistics plans;
- Procure long-lead time material items such historic light pole assemblies, suspended pavement systems, and other specialty items as required.
- Develop temporary traffic control plans and pedestrian and bicycle detour plans;
- Develop and obtain trade contract scopes and other contract documents;
- Perform utility potholing as needed to aid in early coordination with relevant utility companies and their contractors regarding utility adjustments, upgrades and/or relocations;
- Obtain competitive bids for all the work, materials, and equipment; conduct pre-bid meetings and site tours;
- Work with CCDC staff and the design team to address questions during bidding, issue addendums, and publicly open bids;
- Work with CCDC staff to derive and negotiate project Guaranteed Maximum Price.

Prior to release of the first package for the subcontractor bidding, the CM/GC shall submit a bid package estimate that itemizes all bid packages to be bid and awarded and which includes the CM/GC's estimate of the cost of each bid package. As permitted by CCDC, the bid package estimate will include line items for any work the CM/GC proposes to self-perform. The CM/GC's overhead, profit, and contingencies shall be identified in separate line items. The total of the bid package estimate shall equal the construction cost on the CM/GC's most recent estimate.

Construction Phase Services:

- Obtain project bonding, issue subcontracts and trade contracts, and obtain permits for all the work;
- Serve as the General Contractor and as a licensed Construction Manager, including:
  - Manage the construction process including coordination, planning, trade contractor management, submittals management, and requests for information;
  - Coordinate with CCDC's project manager and design team;
  - Plan and provide general condition services such as superintendence, mobilization, storage areas, staging, etc.;
  - Manage accounting of multiple project scopes and funding sources as requested by CCDC. Accurate accounting of ACHD and CCDC costs will be critical on this project;

  - Review and negotiate change order requests, coordinate safety programs, resolve issues and claims;
  - Conduct and coordinate inspections, review and pay subcontractor invoices, update construction schedules;
  - Conduct coordination meetings; and
  - Maintain records, record documents and manuals, develop and monitor punch list, coordinate and assist with warranty corrections.
- Obtain permission from and coordinate access with public and private property owners affected by the construction activity.

2.5 Special Instructions

Throughout the project, the CM/GC shall provide CCDC with professional construction management and contractor services and represent CCDC's interests in completing the project on time, within set budgets, and as planned with minimum difficulties. The Standard Agreement and General Conditions between Owner and Construction Manager (Where the CM is At-Risk) will form the basis of agreement for CM/GC services to be entered into for the project; provided however, CCDC reserves the right to change, modify, or amend the final contract to be entered into by the parties.

GENERAL CONDITIONS

3.1 Intent of RFQ

It is the intent of CCDC to run a Qualification Based Selection process to select a company capable of providing the CM/GC services outlined within this proposal. The CM/GC ranked highest will be approached to negotiate the contract necessary for this project. If a contract cannot be negotiated, CCDC will then approach the next highest ranked company to negotiate the contract. CM/GC is not guaranteed work nor compensation until under contract with CCDC.

3.2 Reserved Rights

CCDC reserves the right to act in the public best interest and in furtherance of the purposes of the Idaho Code Title 50, Chapter 20 (Idaho Urban Renewal Law) and Idaho Code Title 67, Chapter 28 (Purchasing by Political Subdivisions). CCDC reserves the right to waive any formalities or defects as to form, procedure, or content with respect to its Request for Qualifications and any irregularities in the proposals received, to request additional data and information from any and all Proposers, to reject any proposals based on real or apparent conflict of interest, to reject any proposals containing inaccurate or misleading information, and to accept the proposal or proposals that are in the best interest of CCDC and the public. The issuance of this RFQ and the receipt and evaluation of proposals does not obligate CCDC to select a company nor award a contract. CCDC may in its discretion cancel, postpone, or amend this RFQ at any time without liability.

3.3 Public Records

CCDC is a public agency. All documents in its possession are public records subject to inspection and copying under the Idaho Public Records Act, Chapter 1, Title 74, Idaho Code. The Public Records Act contains certain exemptions – one of which is potentially applicable to part of your response is an exemption for trade secrets. Trade secrets include a formula, pattern, compilation, program, computer program, device, method, technique, or process that derives economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by other persons and is subject to the efforts that are reasonable under the circumstances to maintain its secrecy. Prices quoted in a proposal are not trade secrets.

If any Proposer claims any part of a proposal is exempt from disclosure under the Idaho Public Records Act, the Proposer must: 1.) Indicate by marking the pertinent document "CONFIDENTIAL"; and 2.) Include the specific basis for the position that it be treated as exempt from disclosure. Marking the entire proposal as "Confidential" is ***not*** in accordance with Idaho Public Records Act and will not be honored.

CCDC, to the extent allowed by law and in accordance with these Instructions, will honor a nondisclosure designation. By claiming materials to be exempt from disclosure under the Idaho Public Records Act, Proposer expressly agrees to defend, indemnify, and hold CCDC harmless from any claim or suit arising from CCDC's refusal to disclose such materials pursuant to the Proposer's designation. Any questions regarding the applicability of the Public Records Act should be addressed to your own legal counsel prior to submission.

3.4 Insurance

Prior to executing any contract for CM/GC services with CCDC or commencing any work under the contract, the CM/GC will be required to provide evidence of the coverages listed below and pay all costs associated with the insurance coverage. Insurance policies or certificates of insurance will name CCDC as the named insured, and the CM/GC will maintain these minimum insurance coverages during the entire term of the contract:

a. Professional Liability Insurance coverage with minimum coverage of One Million Dollars ($1,000,000) per occurrence and a minimum aggregate limit of One Million Dollars ($1,000,000). NOTE: CGL policies do not provide coverage for the type of professional services the CM will be performing during the pre-construction phase of the project, therefore Professional Liability Insurance coverage must be obtained.

b. Commercial General Liability Insurance coverage with minimum coverage of Two Million Dollars ($2,000,000) on an occurrence basis (not a claims-made basis).

c. Comprehensive Automobile Liability coverage with minimum coverage of One Million Dollars ($1,000,000) per occurrence for owned, non-owned, and hired vehicles.

d. Excess Liability (Umbrella) with minimum coverage of Two Million Dollars ($2,000,000) per occurrence.

e. Worker's Compensation Insurance in an amount as required by statute and Employer's Liability Insurance in an amount not less than One Million Dollars ($1,000,000) for each occurrence, for all of the company's employees to be engaged in work on the project under contract and, in the case any such work is subcontracted, the CM/GC company will require Subcontractors and trade contractors similarly to provide Worker's Compensation and Employer's Liability Insurance for all the Subcontractors and trade contractors to be engaged in such work.

f. Cyber Liability Insurance: CM/GC shall maintain throughout the term of this Agreement Cyber liability Insurance, with limits not less than $1,000,000 per occurrence or claim, $1,000,000 aggregate. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by CM/GC in this Agreement and shall include, but not be limited to, claims involving security breach, system failure, data recovery, business interruption, cyber extortion, social engineering, infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, and alteration of electronic information. The policy shall provide coverage for breach response costs, regulatory fines and penalties as well as credit monitoring expenses.

3.5 Bonding

As the General Contractor, the CM/GC must have the capability to bond for 100% of the contract price of the project estimated at the time the contract is negotiated and until such time that the entire project bids, the overall GMPs for the work are established, and the bond is delivered to

CCDC. **The Proposer shall indicate within their proposal that they certify that they have the bonding capacity to meet the requirements of this RFQ.**

The performance and payment bonds shall be AIA Document A312 (2010 or the most recent edition), or a standard surety form certified approved to be the same as the AIA A312 form and shall be executed by a surety or sureties reasonably acceptable to CCDC and authorized to do business in the State of Idaho.

3.6 Taxes

CCDC is exempt from federal and state taxes. Items purchased by CCDC and put into use by a contractor are subject to Idaho Use Tax. All other taxes are the responsibility of the Contractor and are to be included in the Contractor's pricing.

3.7 Legal Residency Requirement

By submitting a proposal, the Proposer attests, under penalty of perjury, that they are a United States citizen or legal permanent resident or that they are otherwise lawfully present in the United States pursuant to federal law. Prior to being issued a contract, the company will be required to submit proof of lawful presence in the United States in accordance with Idaho Code § 67-7903.

3.8 Dual-Capacity License Requirements

Proposals will be accepted from Idaho licensed construction managers and the company of which they are a principal or full-time employee who, prior to the proposal deadline, also have a valid public works contractor license as a general contractor pursuant to Idaho Code § 54-1902. Idaho Code § 54-1902 requires that public works contractors and subcontractors have the appropriate Public Works License for the particular type of construction work involved, and the general contractor must perform at least 20% of the work under contract.

SUBMISSION, EVALUATION, AND SELECTION

4.1 Pre-Proposal Meeting

A Pre-Proposal Meeting will be held on ZOOM on March 6, 2024, at 10:00 am. The design team will be in attendance to explain the project and answer questions. Attendance by Proposers is strongly recommended, but not required.

Join Zoom Meeting
https://ccdcboise.zoom.us/j/81047452689?pwd=w5XdFtZvjrNPcIb84CGgKSw2UDfdmZ.1
Meeting ID: 810 4745 2689
Passcode: 931499

--- One tap mobile
+16694449171, 81047452689#,,,,*931499# US
+16699006833,,81047452689#,,,,*931499# US (San Jose)

4.2 Required Submission Materials and Format

Proposals shall be prepared simply and economically, providing a straightforward, concise description of the Proposer's capabilities to satisfy the requirements of the RFQ and the scope of services outlined in Section 2.4.

Proposers must submit a PDF of the following completed forms via email by the due date and time:

- RFQ Submittal Cover Sheet (attached to this RFQ as Exhibit A)
- RFQ Waiver and Release (attached to this RFQ as Exhibit B)
- Signed Cover Letter
- ONE (1) signed proposal

Failure to submit all requested information may render any proposal unresponsive and void.

4.3 Addenda

In the event it becomes necessary to revise any part of this RFQ, addenda will be issued. Information given to one Proposer will be available to all other Proposers if such information is necessary for purposes of submitting a proposal or if failure to give such information would be prejudicial to uninformed Proposers. It is the Proposer's responsibility to check for addenda prior to submitting a proposal. Failure to do so may result in the proposal being declared non-responsive. No addenda will be issued fewer than four (4) business days before the proposal deadline unless the deadline is extended. Proposer shall indicate within their cover letter the addenda number(s) which they have incorporated into their proposal.

4.4 Scoring

Proposals must include the following information in the sequence set forth below. This format is meant to allow uniform review and easy access to information by the evaluation committee. For each of the specific articles listed below, Proposers should include a complete description of qualifications to serve as a CM/GC. Proposers are invited to include information about innovative methods and/or procedures that they can provide to assist in ensuring successful completion of

this project; unique qualities and/or capabilities and cost efficiencies should be identified. Proposers acknowledge they will be ranked according to each article below, with points applied per article (100 points total):

RFQ Submittal Cover Sheet (Exhibit A) 0 *Points*

RFQ Waiver and Release (Exhibit B) 0 *Points*

Signed Cover Letter (Limit 1 page) *5 Points*
Provide a signed cover letter with introductory information, such as point of contact, address, phone number and email address. This letter should reference the RFQ by name, provide a concise summary of the Proposer's organization by firm and responsibility, identify the key individual who will be the Project Manager for this project and his/her relevant experience, and generally introduce CCDC to the capabilities of the firm.

Detailed Proposal (Limit 20 pages) – organized with the following information:

a. Company Profile: *15 Points*
Describe the company's history, size, resources, philosophy of service, typical volume of work, and construction management techniques and methods. Describe how your expertise, experience, techniques, and culture can be advantageous to CCDC in completing the project. Include current firm commitments and confirm that Proposer can meet CCDC's insurance and bonding requirements as stated in Sections 3.4 and 3.5. Explicitly identify all work the Proposer intends to self-perform.

b. Proposed CM/GC Project Team Staff: *20 Points*
A dynamic, well organized, and experienced team is needed for this project. Key personnel proposed shall be expected to reside in the Boise region for the duration of the project. Identify the personnel to whom construction management responsibility will be assigned by names, titles, roles, qualifications, years of experience, relevant project experience, resumes, and describe why the specific personnel were selected for inclusion on the team. Some individuals may fulfill multiple positions on the project, but the Proposer should demonstrate how multiple assignments are within the capacity of the management team. Include personnel information for both pre-construction and construction services. Resumes and Idaho Public Works Construction Manager License information shall be included in an appendix for all key personnel listed on the organizational chart. Resumes and license information are not counted within page limits noted above.

Provide an organizational chart for the project. The organizational chart shall identify position titles, and for key personnel only, the names of the people proposed to fulfill these roles, along with the proposed percentage of time that each of the key personnel will be dedicated to the project. The organizational chart shall also indicate reporting and chain of command structure for the team and interfaces with CCDC and the design team.

c. Relevant Experience and Past Performance: *20 Points*
Describe five (5) projects similar in scope, complexity, and budget to this project that the company has completed within the last 10 years. Projects including traffic signal work, asphalt pavement reconstruction, sidewalk and bulb out construction, green stormwater infrastructure, suspended pavement systems, utility infrastructure upgrades, canal improvements, and downtown streetscape improvements are of particular interest.

Projects that highlight experience working within or across multiple agency jurisdictions and work within urban areas with complex construction phasing within the public right-of-way should be highlighted. Please focus on company experience. Do not include individual experience for projects performed while individuals were employed by other companies.

Provide the following key information for each noted project:

- Brief description of the project, highlighting scope, budget, complexity, context, key interfaces, and project delivery method similarities.
- Client reference and current contact information including name, title, phone number, and role on the project.
- Location of the project and completion date.
- The company's responsibilities on the project, and where applicable, identify proposed team staff that participated in the project and their specific role.
- Amount of Proposer's initial contract award and final contract closeout or projected price. Proposer's portion of contract, scope of Proposer's portion, and value of Proposer's portion, and identification of whether Proposer was a prime or subcontractor on the project.
- Number of claims greater than $100,000, and the value of each that required mediation, arbitration or litigation to settle and their current disposition.

d. Project Approach, Work Plan, & Schedule: *25 Points*

i. Project Approach
Provide a brief narrative describing the Proposer's approach to this work and project management control systems that will be used on this project to achieve efficiency, schedule adherence, and budget certainty.

ii. Work Plan, including Schedule
Provide a preliminary baseline schedule showing the Proposer's proposed phasing, sequencing of work, durations, and options to be considered by CCDC that provides value and minimizes adverse impacts to the public and adjacent businesses and property owners. The baseline schedule should assume the current schedule outlined in Section 2.3 as a starting point for planning. Describe how phasing on this specific project can be optimized to ensure successful on-time completion. Include required winter work to achieve the mandatory completion date and ideas to expedite the schedule.

iii. Conduct of Construction
Describe actions and procedures used to minimize adverse impacts to the public and adjacent businesses and property owners. Explain how good relations will be established and maintained and how open and productive communications will be fostered with all interested parties. Specific examples of successful implementation of these actions and procedures from past projects are encouraged.

e. Project Management : *15 Points*

i. Preconstruction Services
Outline a specific approach to guide the review of preliminary drawings and specifications and the review of subsequent revisions to final construction

documents. Detail how the review will ensure constructability and how the Proposer will successfully propose changes to the drawings if deemed necessary.

ii. Budget Control/Value Engineering

Submit detailed information of how your company provides and periodically updates cost estimates and participates in Value Engineering (VE). Describe how opportunities will be identified that will make the project a better value. Include the means and methods that will be used and, specifically, how key personnel will interact with stakeholders and the design team to introduce VE proposals and work through updates to cost estimates. Describe past projects where VE has been an integral part of the relationship with the owner, including VE processes that were not successful and VE means and methods successfully used on past projects.

Describe how your company tracks and reports construction costs, including line item costs for each bid package, fees, permits, reimbursable costs, CM fees, and all other project costs. Finally, describe how your company would administratively manage, track, and invoice for the various separate cost categories that comprise the Guaranteed Maximum Price especially given multiple funding sources, including from separate agencies (CCDC and ACHD).

iii. Scheduling

Describe the primary scheduling techniques the company uses and the software you will employ to produce an effective construction schedule. Provide examples of successful construction management and scheduling services provided on projects of similar complexity. Discuss in detail how you intend to enforce contract schedule compliance.

Describe methods used to coordinate with third party contractors for utility relocations/adjustments to existing utilities to ensure timely execution of utility work ahead of or in concert with other project work.

Describe your approach to construction to minimize disruption in the greater downtown area. Describe what work strategies you will employ and examples of past successes working with adjacent property owners.

Outline your company's understanding of the local construction market as it relates to this project and how your company will ensure the proposed staff will be available at the proper times to complete this project on schedule. Include explanations of your existing and upcoming projects within the area, subcontractor availability, and approaches to reach-out/solicit to subcontractors.

4.5 Evaluation of Proposer

Proposals will be evaluated based on the Proposer's response and qualifications by a selection committee that may include CCDC employees, partner agency staff and/or consultants. Before a CM/GC is selected, CCDC will conduct reference investigations and may conduct interviews to evaluate the Proposer's ability to perform the size and type of work anticipated and to determine the quality of the service being offered. By submitting a proposal, the Proposer authorizes CCDC to conduct reference investigations as needed and to conduct interviews where the Proposers will be evaluated based on the information described in this RFQ.

4.6 Qualification-Based Selection

Selection will be based on the procurement rules set forth in Idaho Code § 67-2320. Final selection is made by the CCDC Board of Commissioners. CCDC has the right to waive or alter submission requirements or to reject any or all proposals, consistent with Idaho law. It is the Proposer's responsibility to conform to all applicable federal, state, and local statutes or other applicable legal requirements. The information provided herein is intended to assist Proposers in meeting applicable requirements but is not exhaustive, and CCDC will not be responsible for any failure by any Proposer to meet applicable requirements.

4.7 Modification or Withdrawal of Proposal

A proposal may be modified or withdrawn by the Proposer prior to the submission deadline set forth in this RFQ. After the submission deadline, the submitted proposal shall remain in effect for a minimum of 90 days for evaluation and contracting purposes.

4.8 QUESTIONS

Any questions, clarifications or objections must be received no later than 3:00 pm March 13, 2024.

Direct questions to: Kathy Wanner, Contracts Manager
(208) 391-7304 or kwanner@ccdcboise.com

EXHIBITS TO THIS RFQ:

A: RFQ Submittal Cover Sheet
B: RFQ Waiver and Release
C: Bannock Street Streetscape Improvements Project - 60% Design Plans

EXHIBIT A

RFQ: CM/GC SERVICES – BANNOCK STREET STREETSCAPE IMPROVEMENTS, 12TH TO 16TH STREETS
SUBMITTAL COVER SHEET
(REQUIRED FOR SUBMISSION)

TO: Capital City Development Corporation
Attn: Kathy Wanner, Contracts Manager
121 N. 9th Street, Suite 501
Boise, Idaho 83702

FROM:

Company Name: _____

Mailing Address: _____

_____

Physical Address: _____

_____

Telephone: _____ Fax: _____

E-mail Address: _____

Company officer responsible to CCDC for CM/GC services contemplated by this RFQ:

SIGNATURE: **X** _____

Print Name and Title: _____

License Information: Idaho Public Works Contractor License # _____

Idaho Public Works Construction Management License # _____

held by _____ (name of licensed CM who will be responsible).

EXHIBIT B

REQUIRED WAIVER & RELEASE
(REQUIRED FOR SUBMISSION)

The undersigned has read this waiver and release and fully accepts the Capital City Development Corporation's (CCDC) discretion and non-liability as stipulated herein, and expressly for, but not limited to, CCDC's decision to proceed with a qualification based selection process in response to the Request for Qualifications (RFQ) to select a company to supply CM/GC services to CCDC for the project.

A. Discretion of CCDC: The Proposer submitting a response to this CM/GC RFQ agrees that CCDC has the right to, unless contrary to applicable state law:

a. Modify or suspend any and all aspects of the process seeking proposals and making any decisions concerning the CM/GC services RFQ;
b. Obtain further information from any person, entity, or group regarding the Proposer, and to ascertain the depth of Proposer's capability and experience for supplying CM/GC services and in any and all other respects to meet with and consult with any Proposer or any other person, entity, or group;
c. Waive any formalities or defects as to form, procedure, or content with respect to CCDC's RFQ to select a CM/GC firm and any response by any Proposer thereto;
d. Accept or reject any sealed proposal received in response to the RFQ, including any sealed proposal submitted by the undersigned; or select any one proposal over another in accordance with the selection criteria; and
e. Accept or reject all or any part of any materials or statements, including, but not limited to, the nature and type of proposal.

B. Non-Liability of CCDC:

a. The undersigned agrees that CCDC shall have no liability whatsoever of any kind or character, directly or indirectly, by reason of all or any decision made at the discretion of CCDC as identified above.
b. The undersigned, including all team members, have carefully and thoroughly reviewed the RFQ and has found it to be complete and free from ambiguities and sufficient for their intended purpose.

Proposer's Signature: X_____

Print Name: _____

Print Title: _____

Name of Firm: _____

Date: _____

EXHIBIT B

REQUIRED WAIVER & RELEASE
(REQUIRED FOR SUBMISSION)

The undersigned has read this waiver and release and fully accepts the Capital City Development Corporation's (CCDC) discretion and non-liability as stipulated herein, and expressly for, but not limited to, CCDC's decision to proceed with a qualification based selection process in response to the Request for Qualifications (RFQ) to select a company to supply CM/GC services to CCDC for the project.

A. Discretion of CCDC: The Proposer submitting a response to this CM/GC RFQ agrees that CCDC has the right to, unless contrary to applicable state law:

a. Modify or suspend any and all aspects of the process seeking proposals and making any decisions concerning the CM/GC services RFQ;
b. Obtain further information from any person, entity, or group regarding the Proposer, and to ascertain the depth of Proposer's capability and experience for supplying CM/GC services and in any and all other respects to meet with and consult with any Proposer or any other person, entity, or group;
c. Waive any formalities or defects as to form, procedure, or content with respect to CCDC's RFQ to select a CM/GC firm and any response by any Proposer thereto;
d. Accept or reject any sealed proposal received in response to the RFQ, including any sealed proposal submitted by the undersigned; or select any one proposal over another in accordance with the selection criteria; and
e. Accept or reject all or any part of any materials or statements, including, but not limited to, the nature and type of proposal.

B. Non-Liability of CCDC:

a. The undersigned agrees that CCDC shall have no liability whatsoever of any kind or character, directly or indirectly, by reason of all or any decision made at the discretion of CCDC as identified above.
b. The undersigned, including all team members, have carefully and thoroughly reviewed the RFQ and has found it to be complete and free from ambiguities and sufficient for their intended purpose.

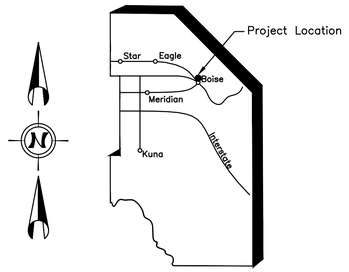
Proposer's Signature: X_____

Print Name: _____

Print Title: _____

Name of Firm: _____

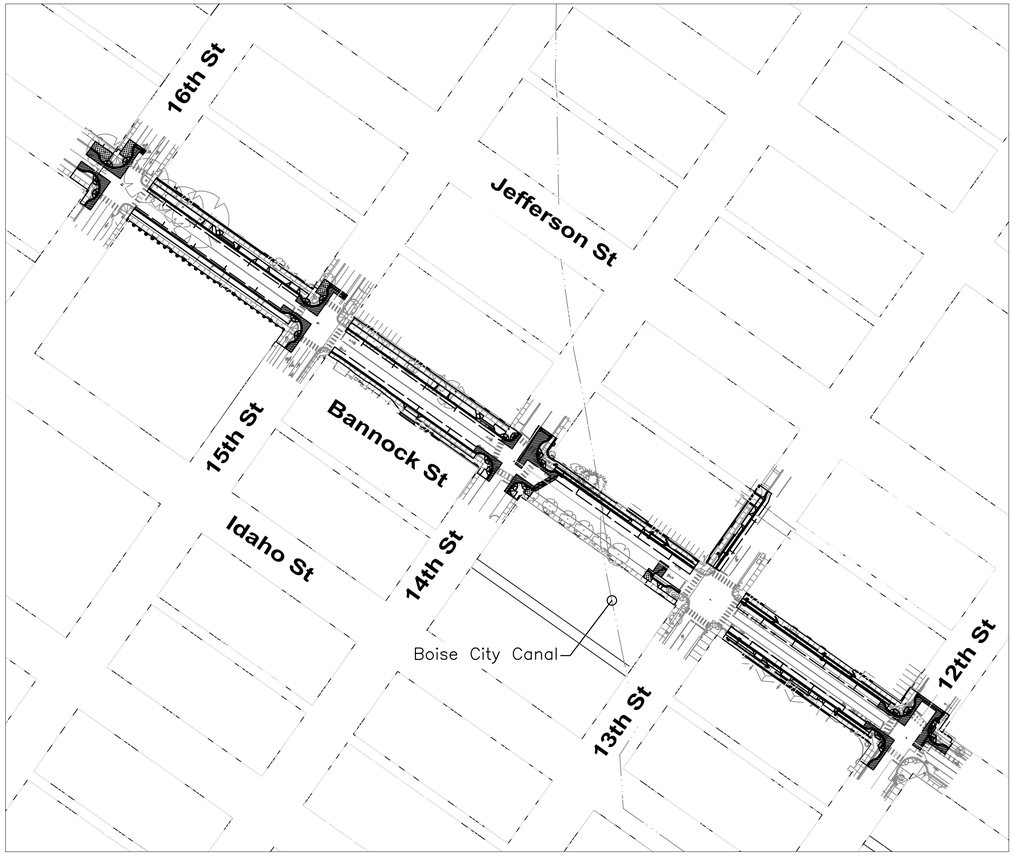
Date: _____



• Capital City Development Corp. •

Bannock Street - 16th to 12th Streetscape Improvements
Project Number: 23056

ADA COUNTY



Vicinity Map
N.T.S.

INDEX OF SHEETS

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SHEET NUMBER	SHEET NAME
G0.00	TITLE SHEET
C1.00	CIVIL NOTES
C1.01	SURVEY CONTROL PLAN
C2.01	BANNOCK ST TYPICAL SECTIONS STA. 12+85.50 TO 21+01.25
C2.02	BANNOCK ST TYPICAL SECTIONS STA. 21+37.25 TO 28+62.00
C2.03	13TH ST TYPICAL SECTIONS STA. 50+45.00 TO 51+93.00
C2.04	ROADWAY DETAILS
C2.05	ROADWAY DETAILS
C2.06	ROADWAY DETAILS
C2.07	ROADWAY DETAILS
C3.01	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 11+80 TO 16+80
C3.02	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 16+80 TO 21+80
C3.03	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 21+80 TO 26+80
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C3.05	13TH STREET UTILITY AND REMOVAL PLAN STA. 50+60 TO 55+60
C4.01	BANNOCK ST PLAN AND PROFILE STA. 11+80 TO 16+80
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C5.08	DRIVEWAY DETIALS
C6.01	BANNOCK ST STORM WATER PLAN STA. 11+80 TO 16+80
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C6.03	BANNOCK ST STORM WATER PLAN STA. 21+80 TO 26+80
C6.04	BANNOCK ST STORM WATER PLAN STA. 26+80 TO 31+80
C6.05	13TH ST STORM WATER PLAN STA. 50+60 TO 55+60
C6.06	STORMWATER DETAILS
C6.07	STORMWATER DETAILS

SHEET LIST	
SHEET NUMBER	SHEET NAME
C7.01	EROSION AND SEDIMENT CONTROL PLAN
C7.02	EROSION AND SEDIMENT CONTROL PLAN
C7.03	EROSION AND SEDIMENT CONTROL PLAN
C7.04	EROSION AND SEDIMENT CONTROL PLAN
T1.01	BANNOCK ST SIGNAGE AND STRIPING PLAN STA. 11+80 TO 16+80
T1.02	BANOCK ST SIGNAGE AND STRIPING PLAN STA. 16+80 TO 21+80
T1.03	BANNOCK ST SIGNAGE AND STRIPING PLAN STA. 21+80 TO 26+80
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L1.01	STREET SCAPE PLAN
L1.02	STREET SCAPE PLAN
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L1.04	STREET SCAPE PLAN
L1.05	STREET SCAPE PLAN
L2.01	STREET SCAPE NOTES
L2.02	STREET SCAPE DETAILS
EG.01	ELETRICAL COVER SHEET
EG.02	APPROVED EQUIPMENT/DETAILS
EG.03	ELETRICAL SPECIFICATIONS
EG.04	ELETRICAL SPECIFICATIONS/DETAILS
EG.05	ELETRICAL SPECIFICATIONS
EG.06	ELETRICAL SPECIFICATIONS
EG.07	BOISE CITY STANDARD DETAILS
E2.01	ELETRICAL PLAN - 1500 BLOCK
E2.02	ELETRICAL PLAN - 1400 BLOCK
E2.03	ELETRICAL PLAN - 1300 BLOCK
E2.04	ELETRICAL PLAN - 1200 BLOCK

Gray Items Will Be Included In The 95% Deliverable.

Percent Complete: 60%

Date: 05/23 Surveyed By: Civil Survey

Date: 12/23 Drawn By: HDR

Date: 12/23 Design By: P. Dewit

Project No: 23056 Project Name: Bannock Street Streetscape Improvements (12th To 16th)

Approval Stamp

The Engineer of Record certifies that the plans are prepared in substantial conformance with the ACHD Policy and standards in effect at the time of preparation. The Engineer acknowledges that ACHD assumes no liability for errors or deficiencies in the design. All variances from ACHD Policy shall be approved in writing. The following variances, listed by date and short description, were approved for the project: NONE .

CSHQA 200 BROAD STREET BOISE, ID 83702
HDR 412 E. PARKCENTER BLVD. SUITE 100 BOISE, ID 83706

60% COMPLETED

LEGEND

(See ACHD CAD Standards For Specifics)

2 3 C.L. of Construction or Survey

Existing Profile or X-Section Line

EP EG Existing Edge of Pavement or Gravel

12"CMP SD Existing Drain or Irrigation Pipe

Existing Ditch or Flow line

P/L Existing Property or Right of Way Line

Existing Fence and Gate

Top Bottom Existing Slope

Existing Curb & Gutter

Existing Curb(No Gutter)

Existing Concrete Sidewalk

Existing Curb,Gutter,Sidewalk and Approach

—P—or—W—or—G—or—Tor—TV—or—Sew—or—Geo— Existing Utility Line With Initial

Water Valve or Meter

Gas Valve or Meter

Fire Hydrant

Signal Pole

Light Pole

Utility Pole With Anchor

Sign, Stop/Street Sign and Mailbox

Existing and New Manholes

Existing and New Catch Basin

New Sediment Box

Existing and New Irrigation Box

Deciduous And Evergreen Tree

Deciduous And Evergreen Bushes

Existing Building

River, Creek, or Canal

Revision Note

N Construction Note

3456 Street Address

4 9 Property Number or Curve Number

Bench Mark and Monument

10 11 15 14 15 14 Section & 1/4 Section Corner

EP EG Design Plan Edge of Pavement or Gravel

Design Profile For TC or Pipes

Design Profile Grade Break

Design Profile PC or PT

Design Ditch or Flow line

Design SD or Irrg. Pipe < 18" on Plan View

Design SD or Irrg. Pipe >= 18" on Plan View

R/W New Property or Right of Way Line

New Easement Line

New Retaining Wall

Limits of Cut Slope

Limits of Fill Slope

Section Line

New Curb and Gutter

20' New Curb, Gutter, Sidewalk, and Approach

New Valley Gutter

New Ped Ramp

New Silva Cell

Sod Repair

Asphalt Repair

Gravel Repair

Landscape Rock

Seeding

Flow Line Directional Arrow

Fiber Wattle

Inlet Protection

UTILITIES

T Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Lumen

W Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Veolia

FO Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Boise City Public Works Interconnect

P Relocate To New Location And/Or Adjust To Grade To Avoid New Roadway Construction By Idaho Power

1. Utility Adjustments, Relocations, Or Replacements May Or May Not Be Completed Prior To Construction. Coordinate And Accommodate Work With The Utility Companies.

2. Locations Of Existing Underground Structures And Utilities Such As Pipelines, Conduits, Cables, Etc., Shown On The Plans Are Approximate Only. It Is Not The Intent Of These Plans To Show The Exact Location Of All Underground Utilities And Structures. It Is The Responsibility Of The Contractor To Verify The Locations Of All Existing Utilities With The Respective Owners. Existing Utilities Damaged By The Contractor Shall Be Repaired By The Contractor. Call Digline Three Days Prior To Excavation. 1-800-342-1585

GENERAL DEMOLITION NOTES

1. Coordinate Demolition Of Street Lighting Facilities, Including Removal Or Abandonment Of Conduit And Abandoned Junction Boxes, With Boise City Public Works. Verify Location And Routing Of Existing Circuits Shown On Electrical Plans Prior To Demolition.
2. Relief Cut Within 12" Of Building Face Along Entire Sidewalk Length Prior To Removing Concrete. Sawcut Line Not Shown On Plan.
3. Protect Existing Building Faces From Construction Related Damage. Repair Construction Related Damage At Contractor's Expense.
4. Protect Building Walls And Entries From Construction Related Dirt, Debris, Wastewater From Cutting Operations, Etc. To The Extent Practical. Clean All Construction Related Dirt, Debris, Discoloration, Etc. From Building And Entries Upon Completion Of Work.
5. Dispose Of Soils Excavated For Silva Cell Installation Off-Site.

GENERAL NOTES

1. Verify Site Condition And Report Discrepancies To The Engineer Prior To Work.
2. All Construction Within Ada County Highway District Right-Of-Way Shall Conform To The 2017 Edition Of The Idaho Standards For Public Works Construction (ISPWC) And The ACHD Supplemental Specifications, Except As Modified By The Project Special Provisions. No Exceptions To District Policy, Standards, And The ISPWC Will Be Allowed Unless Specifically And Previously Approved In Writing By The District.
3. Provide And Gain Approval For Traffic Control Plans Within Ada County Highway District Prior To Construction.
4. Maximum Sidewalk Cross Slope Is 2%, Except Outside Of Pedestrian Access Routes.
5. Notify ACHD Immediately If Vaults Or Building Basements Are Encountered Within The Project Footprint. Coordination Between ACHD Legal Staff, ACHD Development Review, CCDC And Property Owners Is Required.

HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

• D E T A I L T I T L E •

Civil Notes

MONUMENTS

Mon 1 (1/2"PIN)
13+19.85, 40.09' Rt.
ELEV. 2684.25'
N. 2502878.38
E. 713012.28

Mon 2 (AC)
13+99.72, 39.86' Lt.
ELEV. 2687.32'
N. 2502989.74
E. 713031.58

Mon 3 (5/8"W/CAP)
13+99.62, 40.00' Rt.
ELEV. 2684.59'
N. 2502943.59
E. 712966.35

Mon 4 (AC)
15+49.62, 39.89' Lt.
ELEV. 2688.50'
N. 2503112.24
E. 712945.20

Mon 5 (AC)
15+99.58, 39.92' Lt.
ELEV. 2688.94'
N. 2503153.08
E. 712916.39

Mon 6 (AC)
16+99.71, 39.88' Lt.
ELEV. 2690.47'
N. 2503234.88
E. 712858.69

Mon 7 (5/8"W/CAP)
16+99.66, 40.08' Rt.
ELEV. 2689.36'
N. 2503188.76
E. 712793.37

Mon 8 (5/8"W/CAP)
17+79.66, 40.05' Rt.
ELEV. 2690.20'
N. 2503254.14
E. 712747.28

Mon 9 (1/2"PIN)
18+65.13, 40.13' Lt.
ELEV. 2691.80'
N. 2503370.21
E. 712763.55

Mon 10 (5/8"W/CAP)
19+04.70, 40.12' Rt.
ELEV. 2692.49'
N. 2503356.33
E. 712675.23

Mon 11 (LP&T)
19+79.76, 36.85' Lt.
ELEV. 2693.31'
N. 2503461.98
E. 712694.78

Mon 12 (LP&T)
20+82.91, 36.80' Lt.
ELEV. 2694.76'
N. 2503546.25
E. 712635.28

Mon 13 (PK&WASHER)
21+57.89, 40.05' Rt.
ELEV. 2694.69'
N. 2503563.22
E. 712529.27

Mon 14 (LP&T)
21+59.86, 37.97' Rt.
ELEV. 2694.75'
N. 2503566.03
E. 712529.83

Mon 15 (LEAD PLUG)
51+61.17, 40.67' Lt.
ELEV. 2698.22'
N. 2503925.39
E. 712520.02

Mon 16 (1/2"PIN)
51+77.97, 40.12' Lt.
ELEV. 2696.32'
N. 2503935.65
E. 712533.37

Mon 17 (1/2"W/CAP)
25+39.80, 39.82' Lt.
ELEV. 2696.22'
N. 2503921.35
E. 712374.40

Mon 18 (5/8"W/CAP)
28+40.02, 39.82' Lt.
ELEV. 2697.94'
N. 2504166.67
E. 712201.36

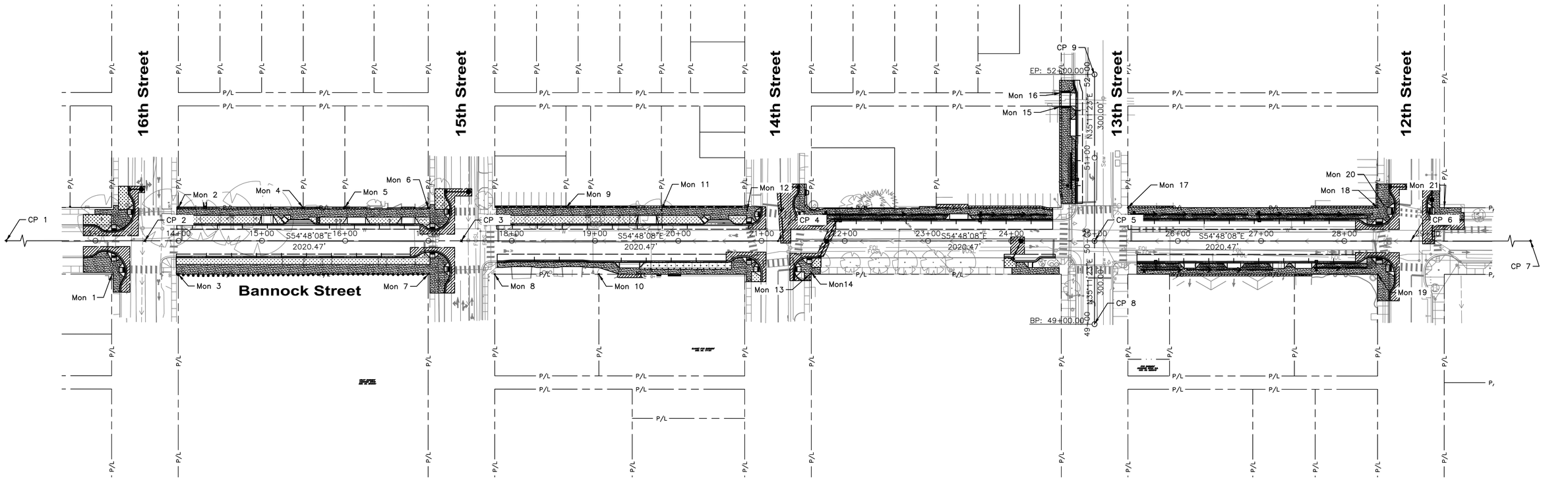
Mon 19 (Disk)
28+40.04, 40.01 Rt.
ELEV. 2698.40'
N. 2504120.68
E. 712136.09

Mon 20 (LP&T)
28+47.12, 43.15' Lt.
ELEV. 2697.85'
N. 2504174.45
E. 712200.05

Mon 21 (1/2"W/CAP)
29+20.00, 39.89' Lt.
ELEV. 2698.71'
N. 2504232.07
E. 712155.31

N O T E S

Project Coordinates Are Based On ADA County GIS Basemap Datum, Which Is Based On A 2700 Foot Elevation Modification Of The Idaho West (Zone 1103) NAD83 State Plane Coordinate System. The Vertical Datum Is NAVD88.
Projection Details Are:
False Northing = 0.000 sft
False Easting = 2625138.996 sft
Latitude Of Origin = 41d40'00.000" N
Central Meridian = 115d45'00.000" W
Scale Factor = 1.0001132793



Control Points

CP 1 (AC)
9+79.53
ELEV. 2683.38'
N. 2502623.39
E. 713241.21

CP 2 (AC)
13+59.58, 0.08' Rt.
ELEV. 2685.03'
N. 2502933.93
E. 713022.10

CP 3 (BC)
17+39.69, 0.09' Rt.
ELEV. 2690.22'
N. 2503244.51
E. 712802.98

CP 4 (5/8"W/CAP)
21+19.80, 0.16' Rt.
ELEV. 2695.02'
N. 2503555.09
E. 712583.83

CP 5 (5/8"W/CAP)
25+00.00 Bannock Street = 50+00.00 13th Street
ELEV. 2696.76
N. 2503865.86
E. 712364.81

CP 6 (5/8"W/CAP)
28+80.05
ELEV. 2698.29'
N. 2504176.43
E. 712145.73

CP 7 Calc.
30+00.00
N. 712076.6
E. 2504274.45

CP 8 Calc.
49+00.00
N. 2503808.24
E. 712283.08

CP 9 Calc.
52+00.00
N. 2503981.12
E. 712528.25

BENCHMARKS

0 60 120 180
Plan Scale

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: P. Dewit Date: 12/23
Drawn By: HDR Date: 12/23

• D E T A I L T I T L E •

Survey Control Plan

CAPITAL CITY DEVELOPMENT CORP
Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

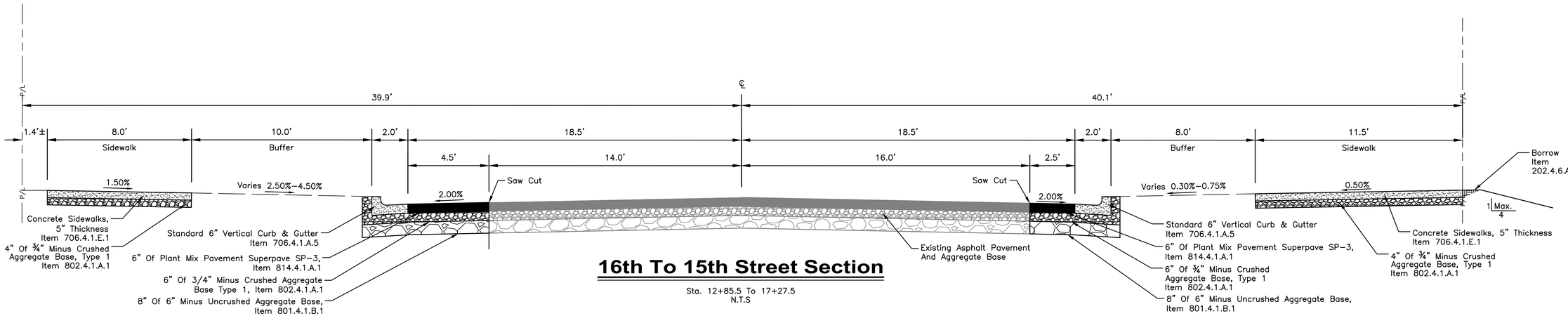
Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet C1.01

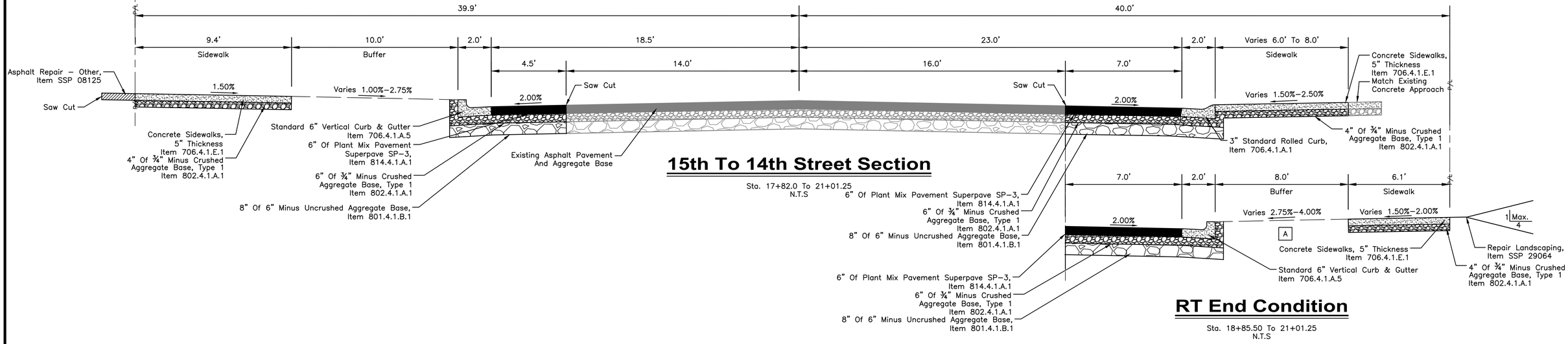
GENERAL NOTES

A Buffer Width Varies Between Stations 19+04.50 To 19+53.50. See Plans



16th To 15th Street Section

Sta. 12+85.5 To 17+27.5
N.T.S



15th To 14th Street Section

Sta. 17+82.0 To 21+01.25
N.T.S

RT End Condition

Sta. 18+85.50 To 21+01.25
N.T.S

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

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Revisions:

• S I G N A T U R E S •

Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

• D E T A I L T I T L E •

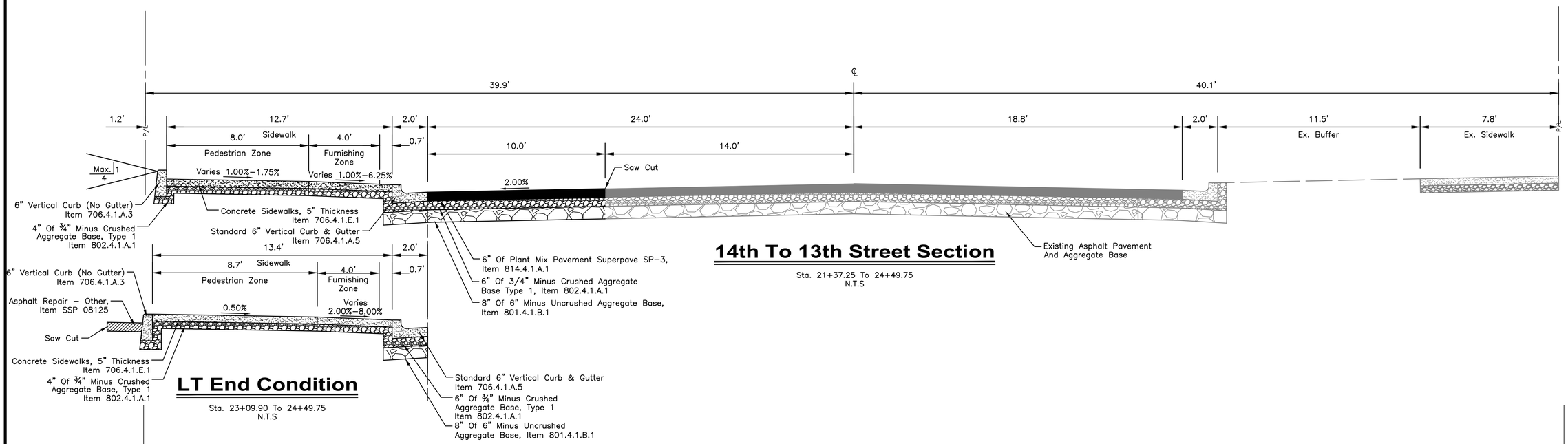
Bannock St Typical Sections

CAPITAL CITY DEVELOPMENT CORP
Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet C2.01



412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

• D E T A I L T I T L E •

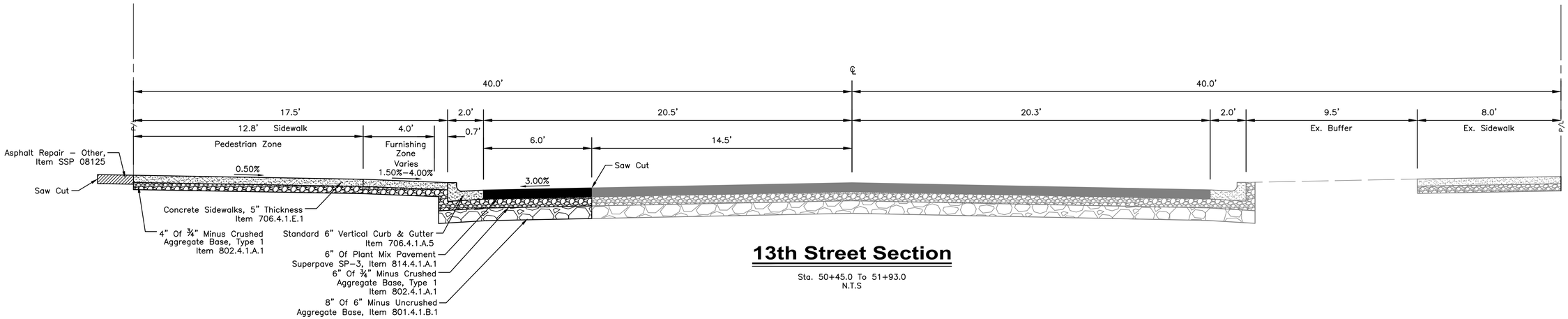
Bannock St Typical Sections

CAPITAL CITY DEVELOPMENT CORP
Capital City Development Corp
• 121 N. 9th Street Suite 501, Boise, Idaho, 83702 •
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet C2.02



13th Street Section

Sta. 50+45.0 To 51+93.0
N.T.S

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

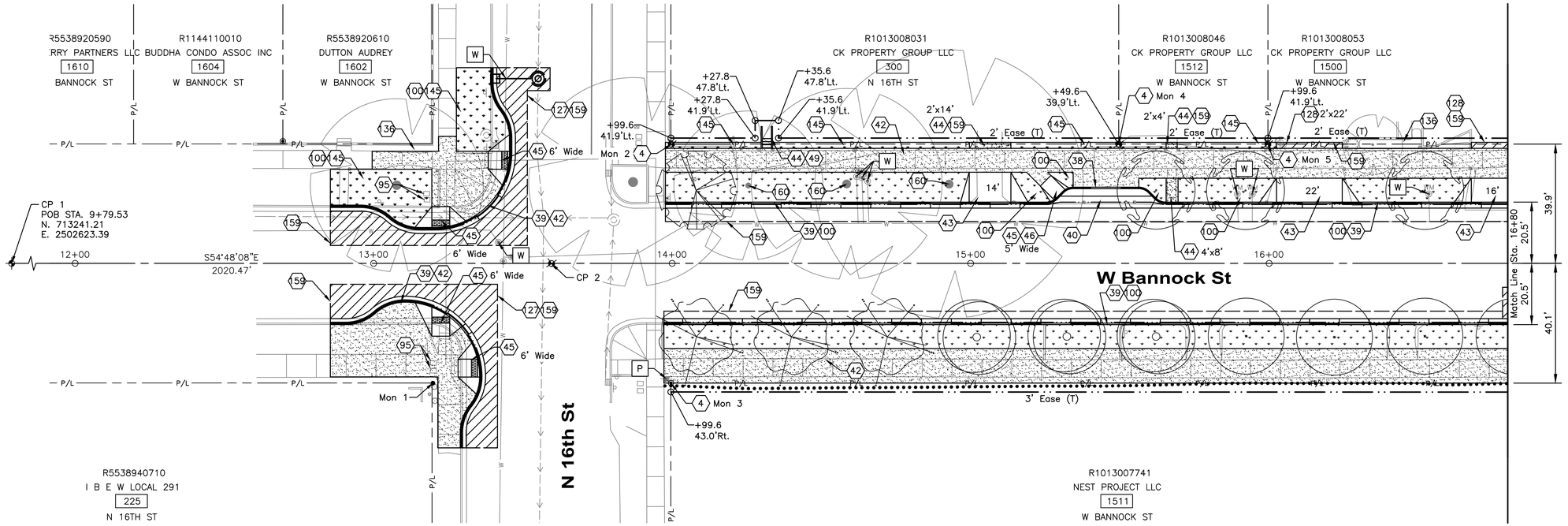
• S I G N A T U R E S •

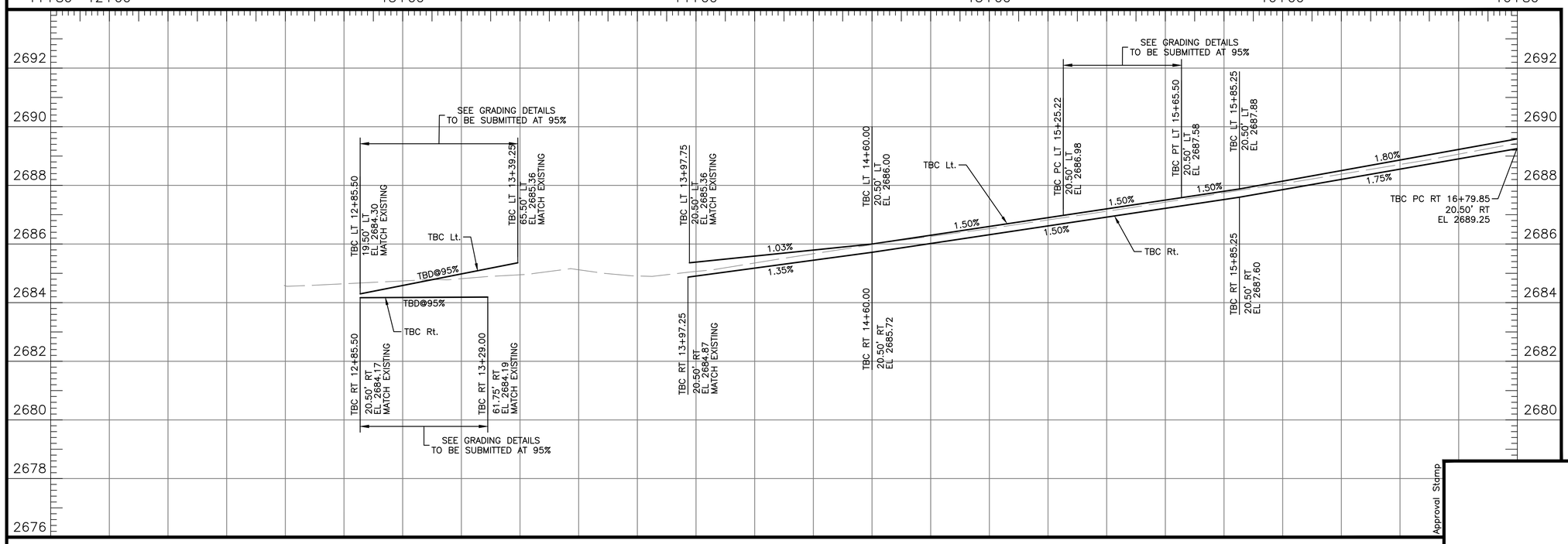
Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

• D E T A I L T I T L E •

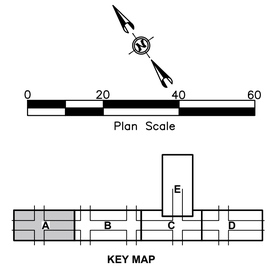
13th St Typical Sections





N O T E S

- (4) Reference And Reset Monument, Item 2020.4.1.F.1
- (38) 6" Vertical Curb (No Gutter), Item 706.4.1.A.3
- (39) Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- (40) Concrete Valley Gutters, Item 706.4.1.B.1
- (42) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- (43) Concrete Driveway Approach, Item 706.4.1.F.1
- (44) Concrete Repair, Item 706.4.1.G.1
- (45) Ped. Ramp w/Detectable Warning Domes, Type A, Item 706.4.1.H.1.A
- (46) Omit Truncated Domes From Ramp
- (49) Concrete Steps, Item 706.4.1.D.1
- (95) Miscellaneous Utility, Adjust To Grade, Item 2030.4.1.D.1
- (100) See Streetscape Plans For Details
- (127) Asphalt Repair – Arterial And Collector, Item SSP 08120
- (128) Asphalt Repair – Other, Item SSP 08125
- (136) Repair Landscaping, Item SSP 29067B
- (145) Sod Repair, Item SSP 29064
- (159) Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project
- (160) Retain And Protect

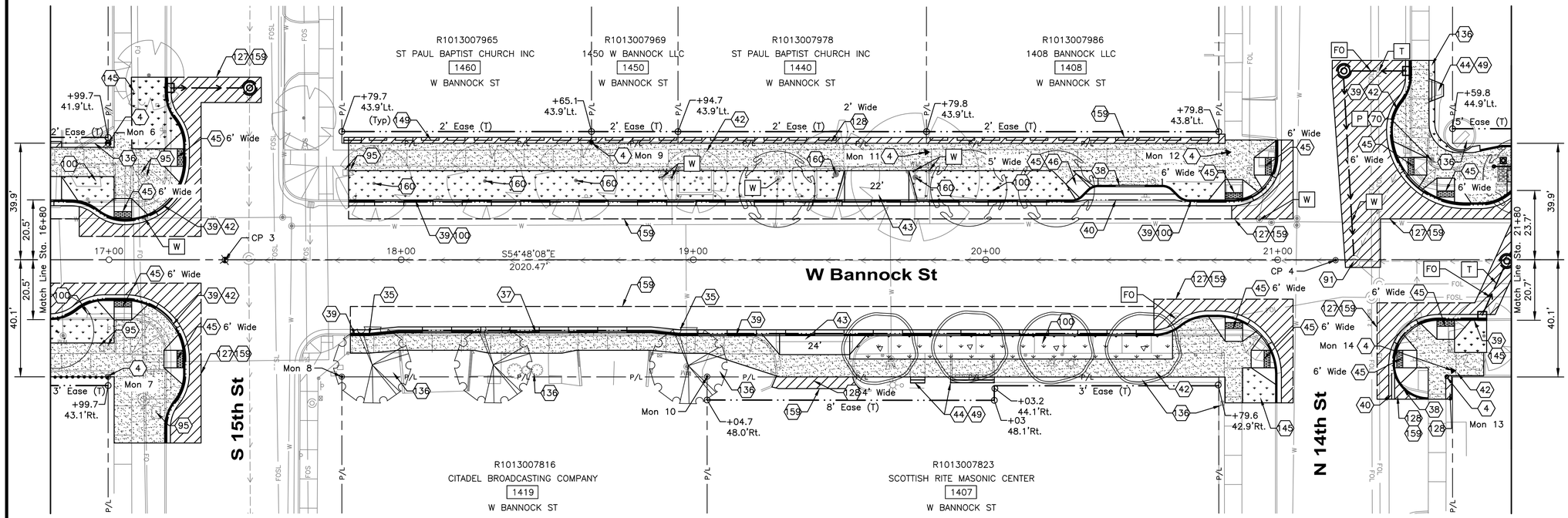


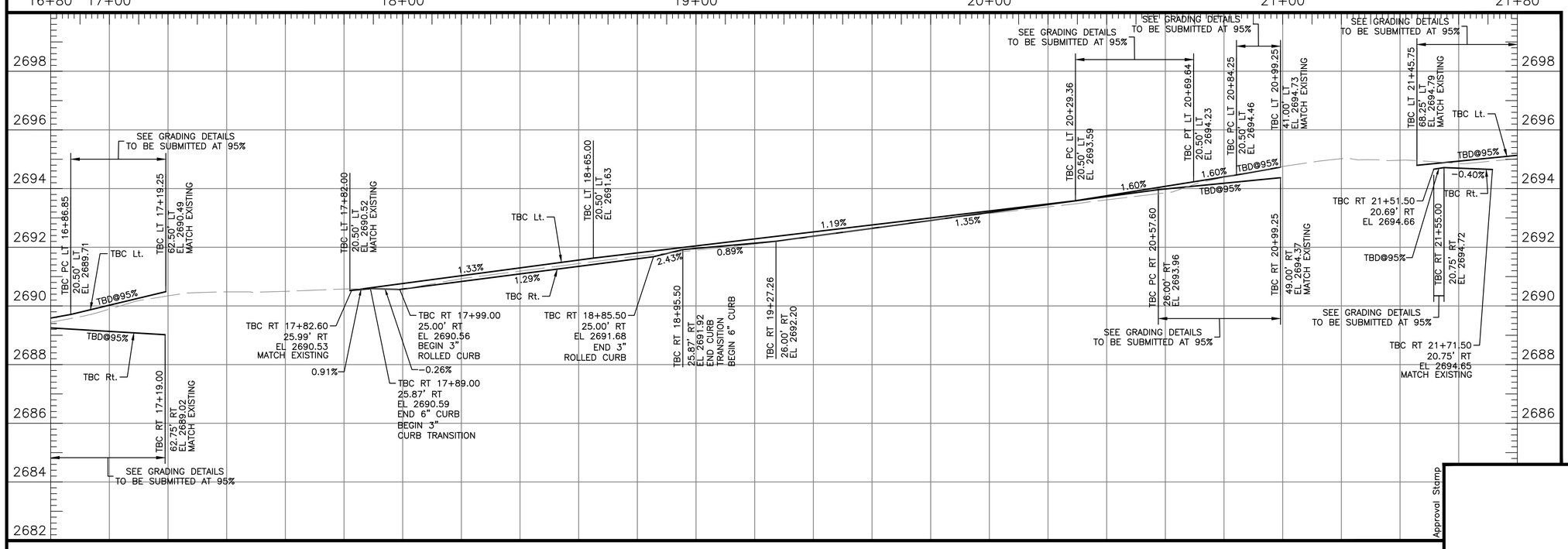
HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

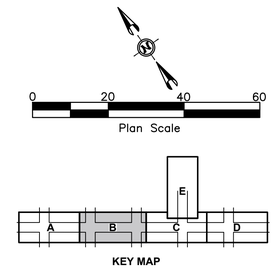
Revisions:	Design By: P. Dewit	Date: 12/23	Drawn By: HDR	Date: 12/23	Survey By: Civil Survey	Date: 05/23





N O T E S

- (4) Reference And Reset Monument, Item 2020.4.1.F.1
- (35) Transition From 6" Vertical Curb & Gutter To 3" Rolled Curb And Gutter, Incidental To Item 706.4.1.A.3
- (37) Standard 3" Rolled Curb & Gutter, Item 706.4.1.A.1
- (38) 6" Vertical Curb (No Gutter), Item 706.4.1.A.3
- (39) Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- (40) Concrete Valley Gutters, Item 706.4.1.B.1
- (42) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- (43) Concrete Driveway Approach, Item 706.4.1.F.1
- (44) Concrete Repair, Item 706.4.1.G.1
- (45) Ped. Ramp w/Detectable Warning Domes, Type A, Item 706.4.1.H.1.A
- (46) Omit Truncated Domes From Ramp
- (49) Concrete Steps, Item 706.4.1.D.1
- (70) Relocate Street Light, See Illumination Plans Item 1102.4.1.B.1
- (91) Stormwater Manhole – Adjust To Grade, Item 2030.4.1.A.1.A
- (95) Miscellaneous Utility, Adjust To Grade, Item 2030.4.1.D.1
- (100) See Streetscape Plans For Details
- (27) Asphalt Repair – Arterial And Collector, Item SSP 08120
- (28) Asphalt Repair – Other, Item SSP 08125
- (36) Repair Landscaping, Item SSP 29067B
- (45) Sod Repair, Item SSP 29064
- (49) Precast Parking Bumpers, Item SP 20117
- (59) Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project
- (60) Retain And Protect

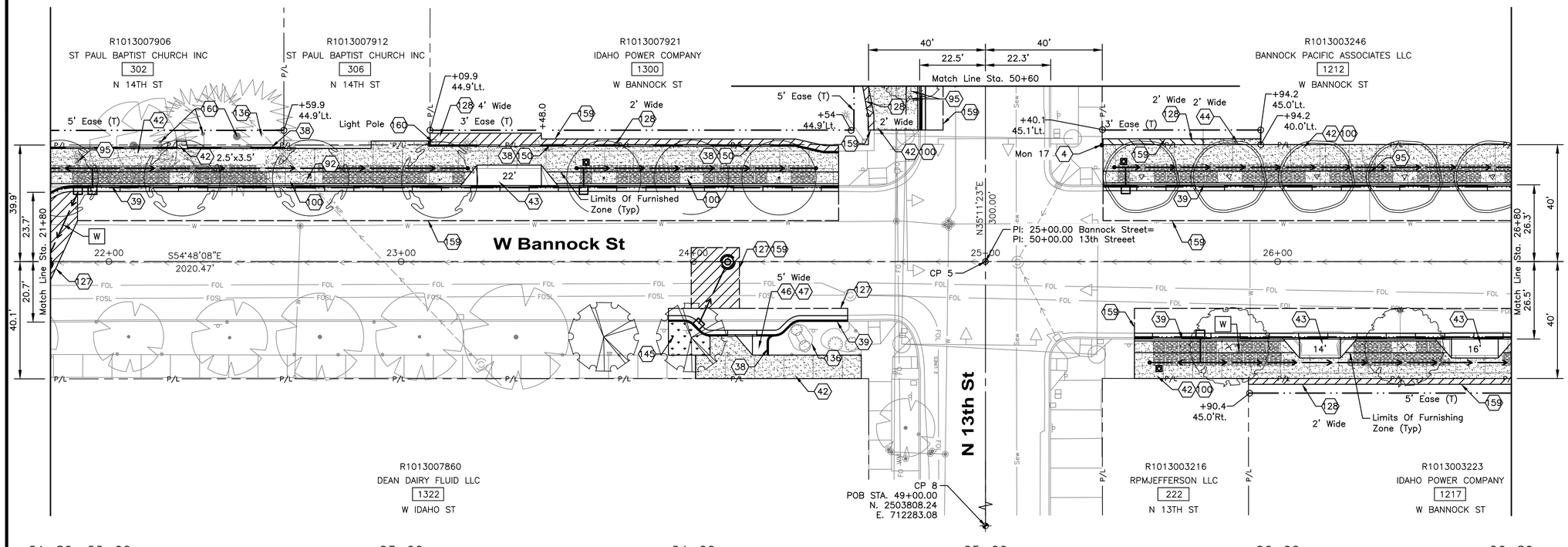


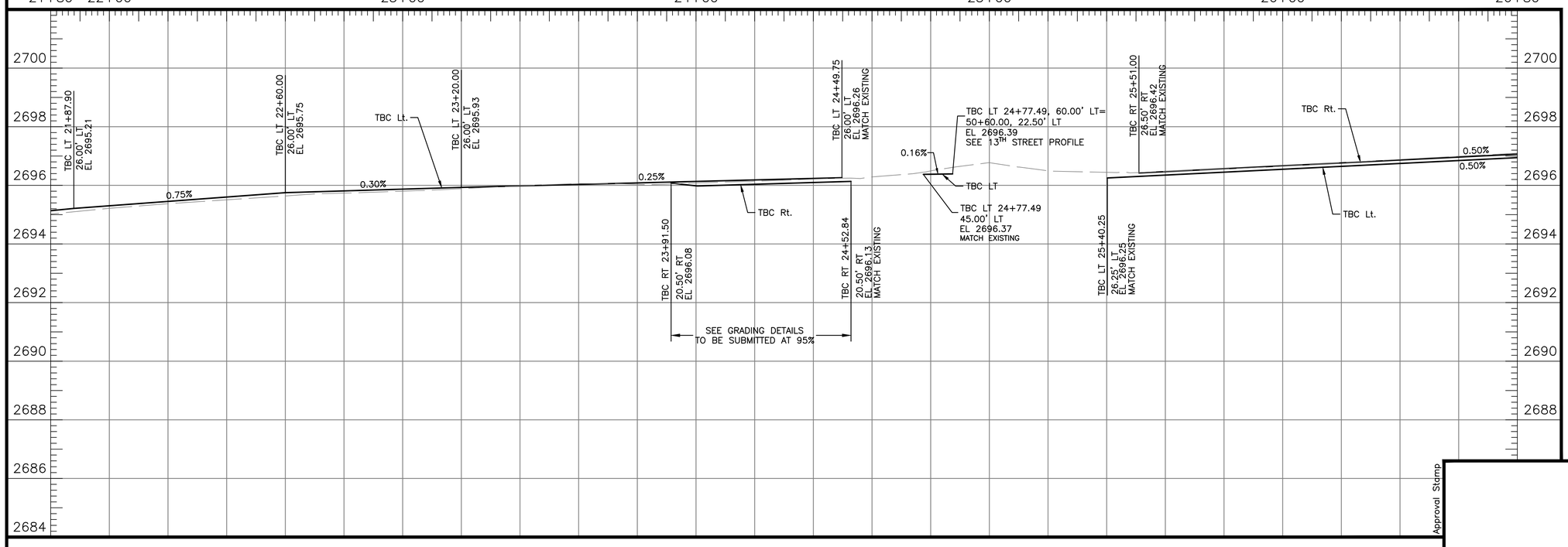
HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

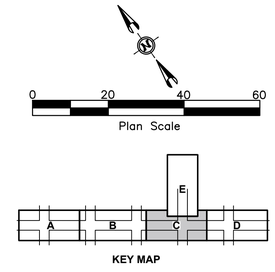
Revisions:	Design By: P. Dewit	Date: 12/23	Drawn By: HDR	Date: 12/23	Survey By: Civil Survey	Date: 05/23





N O T E S

- (4) Reference And Reset Monument, Item 2020.4.1.F.1
- (38) 6" Vertical Curb (No Gutter), Item 706.4.1.A.3
- (39) Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- (40) Concrete Valley Gutters, Item 706.4.1.B.1
- (42) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- (43) Concrete Driveway Approach, Item 706.4.1.F.1
- (44) Concrete Repair, Item 706.4.1.G.1
- (45) Ped. Ramp w/Detectable Warning Domes, Type A, Item 706.4.1.H.1.A
- (46) Omit Truncated Domes From Ramp
- (47) Ped. Ramp w/Detectable Warning Domes, Type C4, Item 706.4.1.H.1.C4
- (92) Irrigation Manhole – Adjust To Grade, Item 2030.4.1.A.1.B
- (95) Miscellaneous Utility, Adjust To Grade, Item 2030.4.1.D.1
- (100) See Streetscape Plans For Details
- (127) Asphalt Repair – Arterial And Collector, Item SSP 08120
- (128) Asphalt Repair – Other, Item SSP 08125
- (136) Repair Landscaping, Item SSP 29067B
- (145) Sod Repair, Item SSP 29064
- (150) Curb Profile Details To Be Provided At 95% Submittal
- (159) Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project
- (160) Retain And Protect

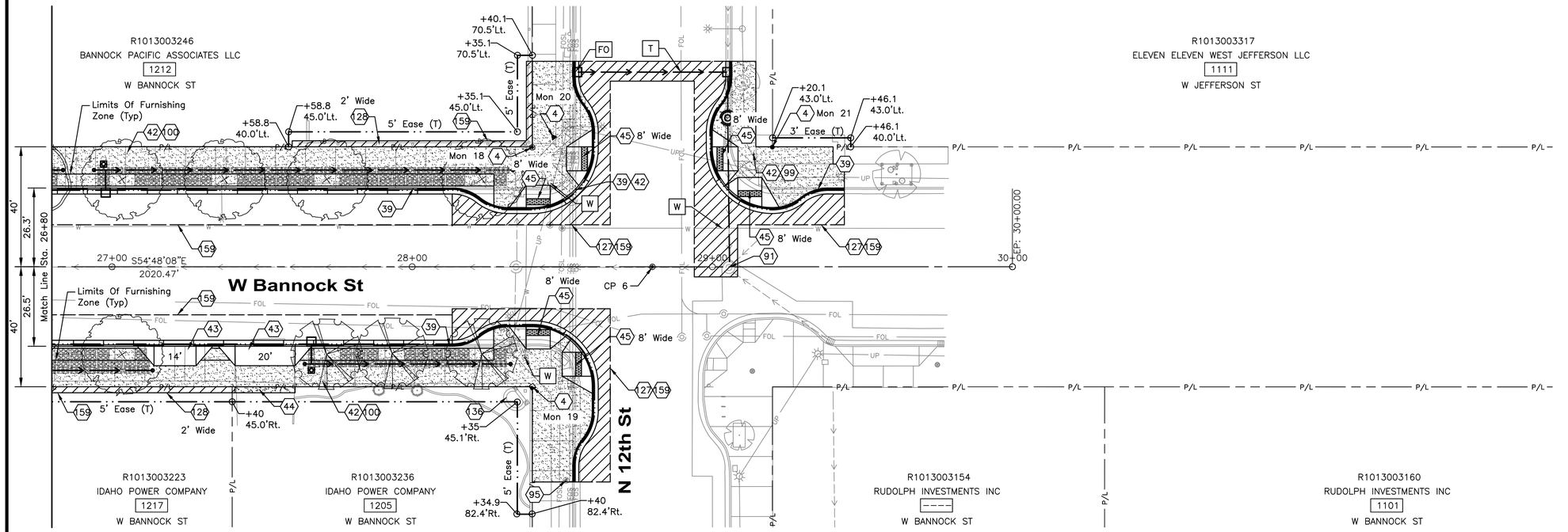


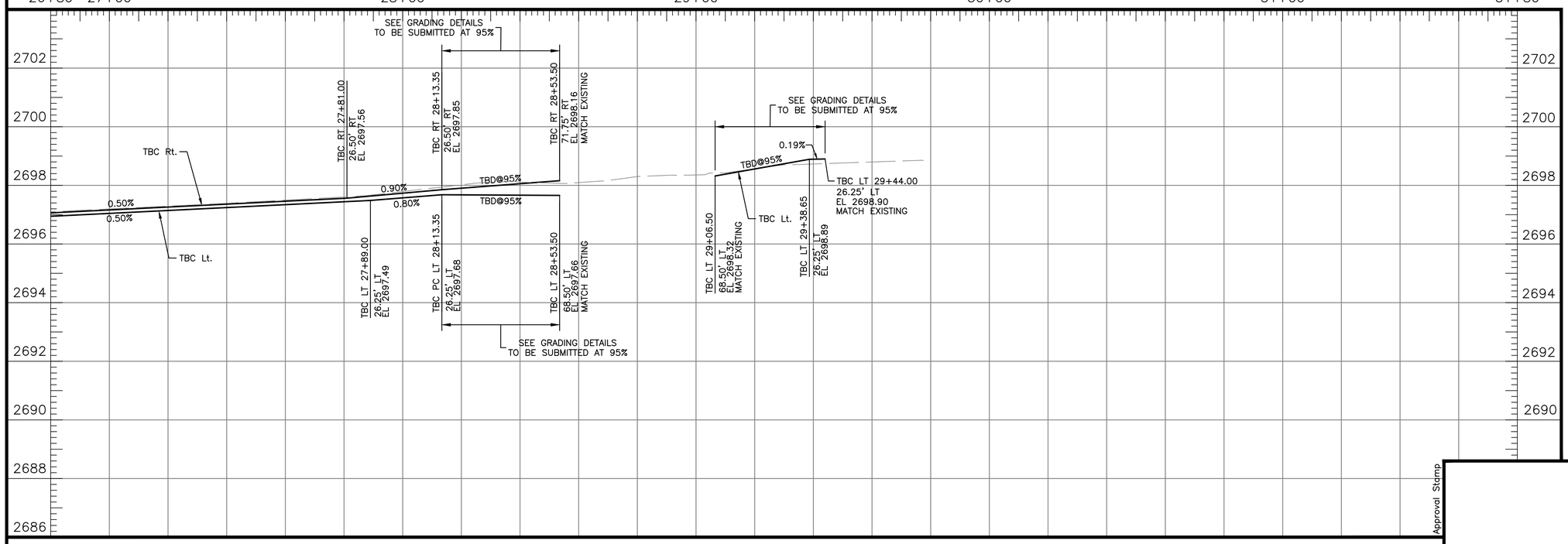
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

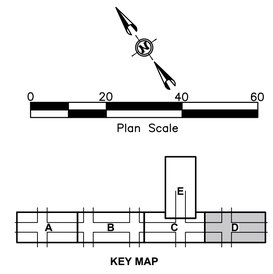
Revisions:	Design By: P. Dewit	Date: 12/23	Drawn By: HDR	Date: 12/23	Survey By: Civil Survey	Date: 05/23





N O T E S

- 4 Reference And Reset Monument, Item 2020.4.1.F.1
- 39 Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- 42 Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- 43 Concrete Driveway Approach, Item 706.4.1.F.1
- 44 Concrete Repair, Item 706.4.1.G.1
- 45 Ped. Ramp w/Detectable Warning Domes, Type A, Item 706.4.1.H.1.A
- 91 Stormwater Manhole – Adjust To Grade, Item 2030.4.1.A.1.A
- 95 Miscellaneous Utility, Adjust To Grade, Item 2030.4.1.D.1
- 99 Match Existing Color, Texture And Location Of Decorative Concrete, Incidental To 706.4.1.E.1
- 100 See Streetscape Plans For Details
- 27 Asphalt Repair – Arterial & Collector, Item SSP 08120
- 28 Asphalt Repair – Other, Item SSP 08125
- 136 Repair Landscaping, Item SSP 29067B
- 159 Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project



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SUITE 100
BOISE, ID 83706

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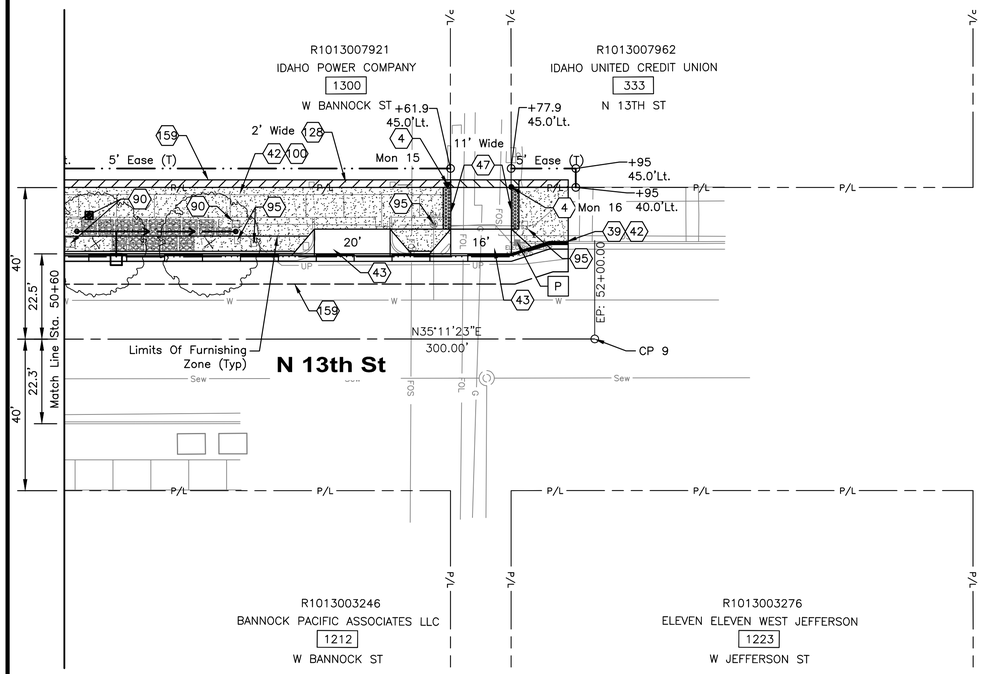
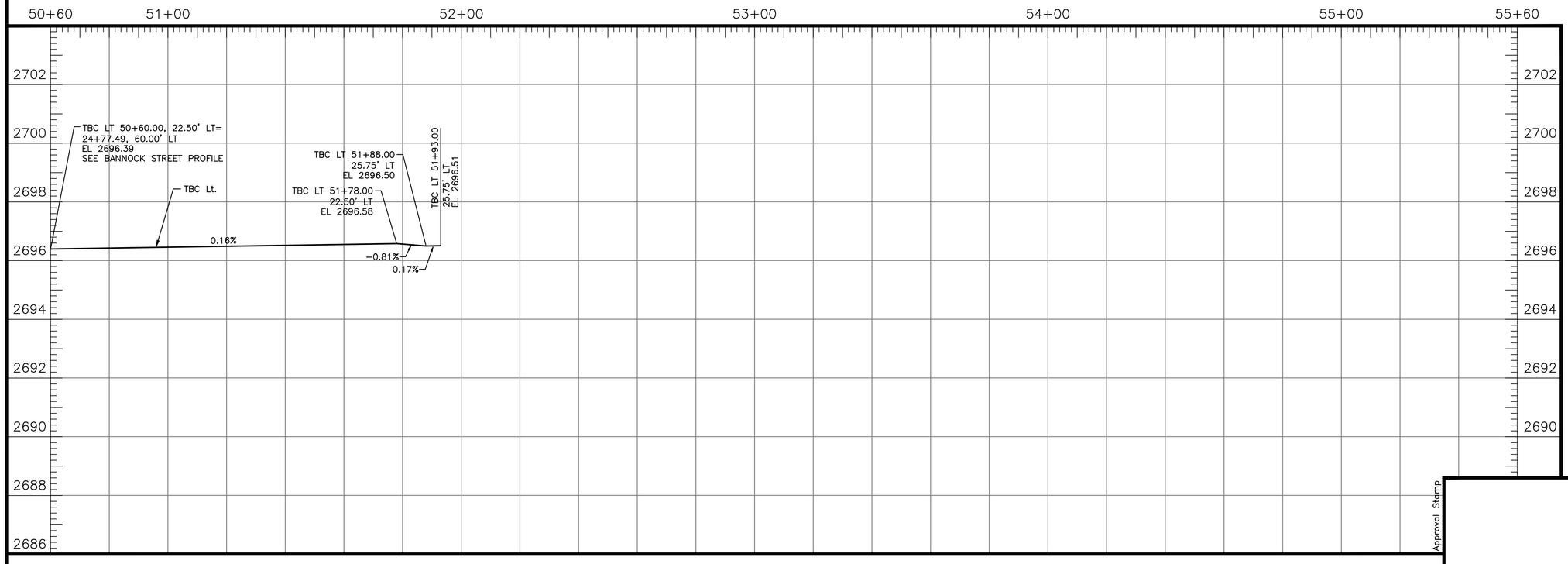
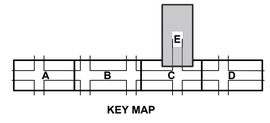




N O T E S

- 4 Reference And Reset Monument, Item 2020.4.1.F.1
- 39 Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- 42 Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- 43 Concrete Driveway Approach, Item 706.4.1.F.1
- 47 Detectable Warning Devices – Retrofit, Item SSP 07015
- 90 Retain And Protect Existing Signal Infrastructure Including Cabinet, Service Pedestals, Foundations, Conduit And Cabling
- 95 Miscellaneous Utility, Adjust To Grade, Item 2030.4.1.D.1
- 00 See Streetscape Plans For Details
- 128 Asphalt Repair – Other, Item SSP 08125
- 159 Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project

0 20 40 60
Plan Scale



KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

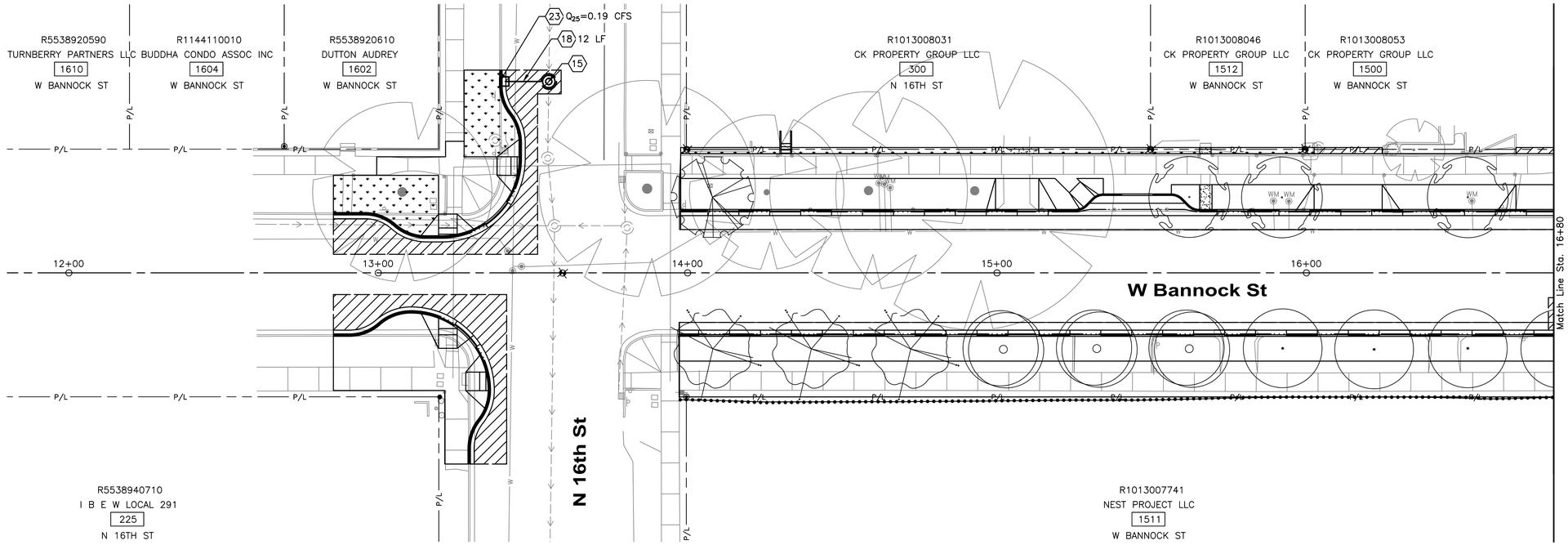
60% COMPLETED

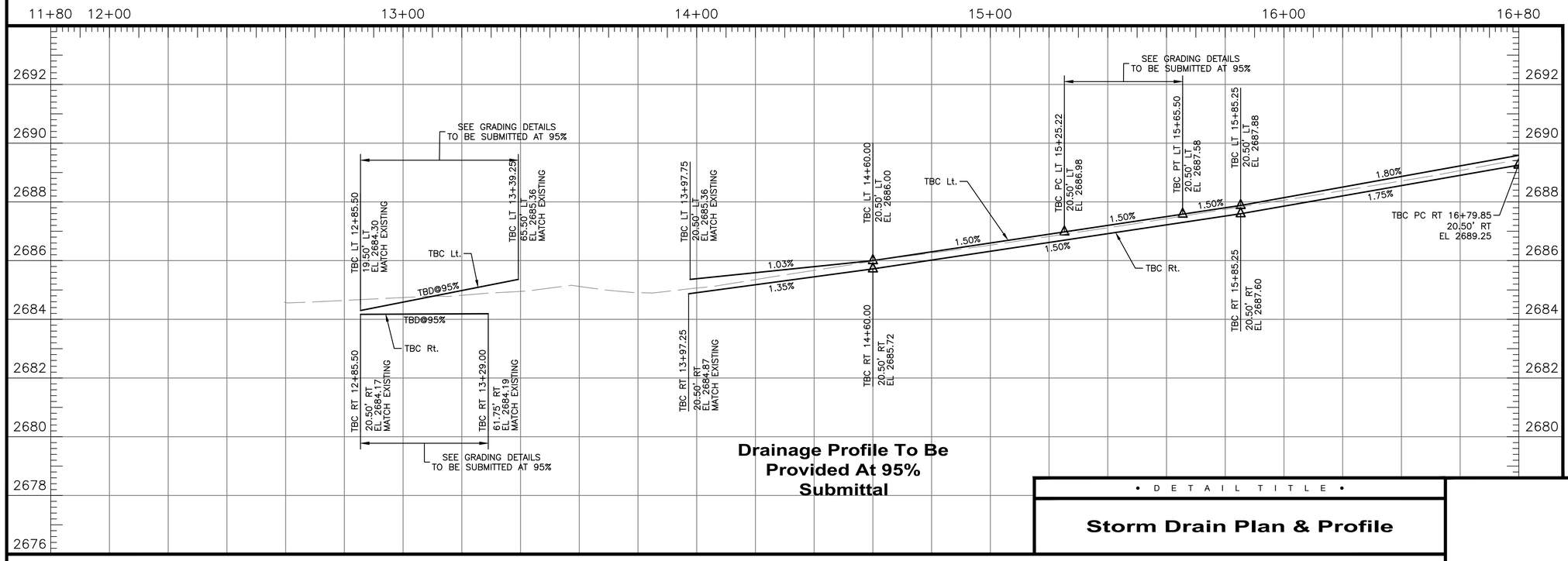
Revisions:

Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23





Drainage Profile To Be Provided At 95% Submittal

N O T E S

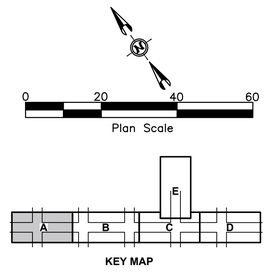
15 Storm Drain Manhole – Type B – Raised Invert, 60", Item 602.4.1.A.1.60

18 12" Storm Drain Pipe, Class C900 PVC Item 601.4.1.A.5.12

23 Catch Basin – Type I, Item 602.4.1.F.1.1

General Notes

1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.



HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

• D E T A I L T I T L E •

Storm Drain Plan & Profile

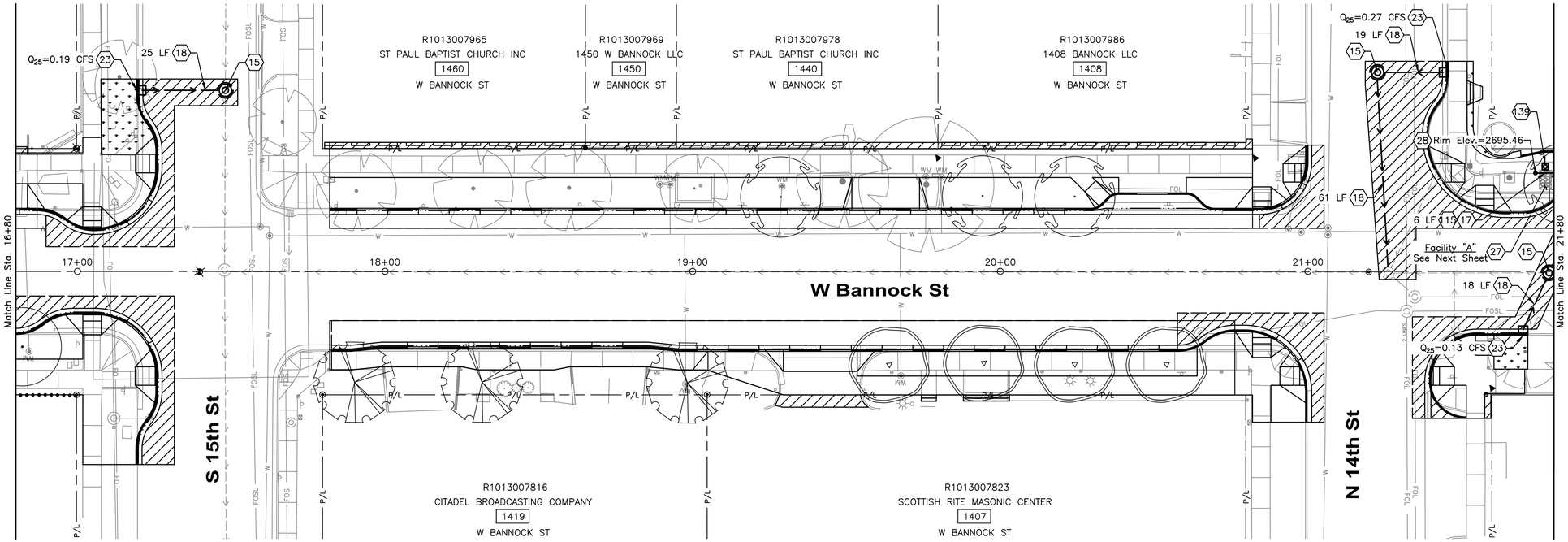
60% COMPLETED

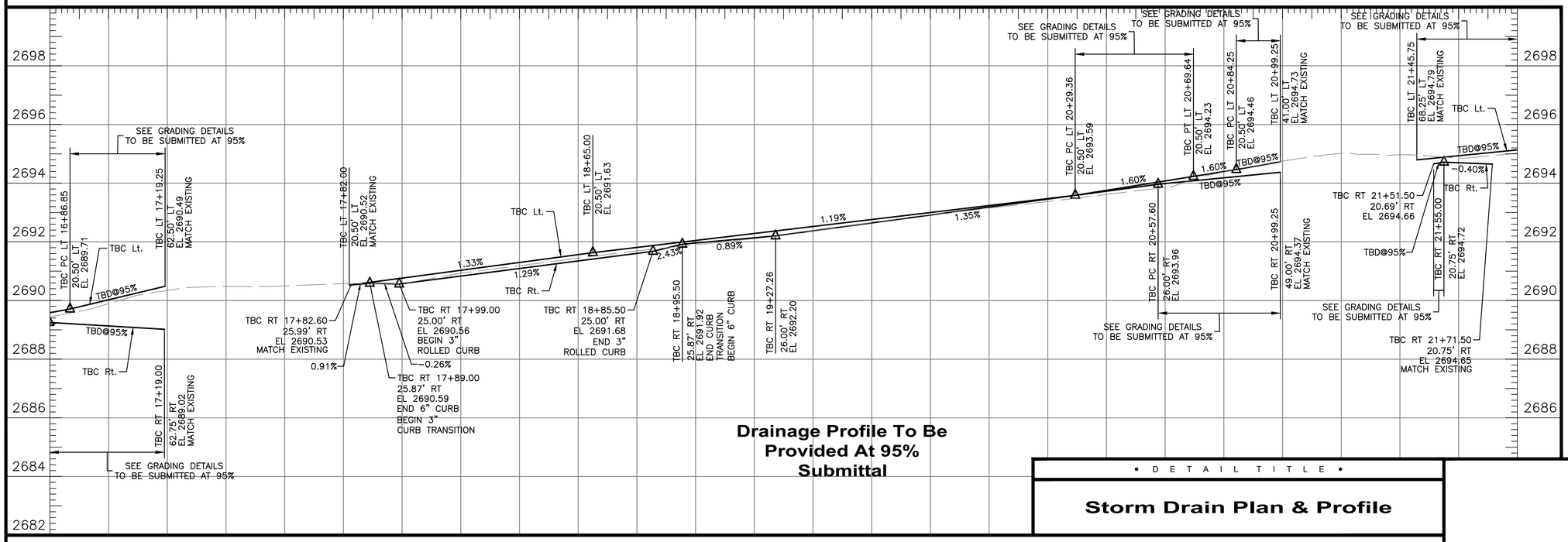
Revisions:

Design By: P. Dewit Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23





N O T E S

15 Storm Drain Manhole – Type B – Raised Invert, 60", Item 602.4.1.A.1.60

17 6" SDR 35 PVC Pipe, Item 601.4.1.A.5.6

18 12" Storm Drain Pipe, Class C900 PVC Item 601.4.1.A.5.12

23 Catch Basin – Type I, Item 602.4.1.F.1.1

27 Stormwater Tree (Silva) Cells, Type 2X Item SP 02028

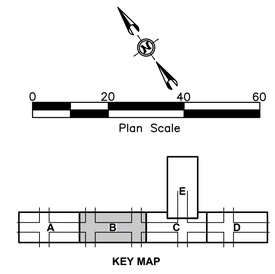
28 Traffic Rated Clean–Out, Per BMP33 In ACHD Policy Manual Section 8200, Item SP 06006

115 Perforate Distribution Pipe Per Detail X. Detail To Be Provided At 95% Submittal.

139 Groundwater Observation Well, Item SSP 29110

General Notes

1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.



412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

• D E T A I L T I T L E •

Storm Drain Plan & Profile

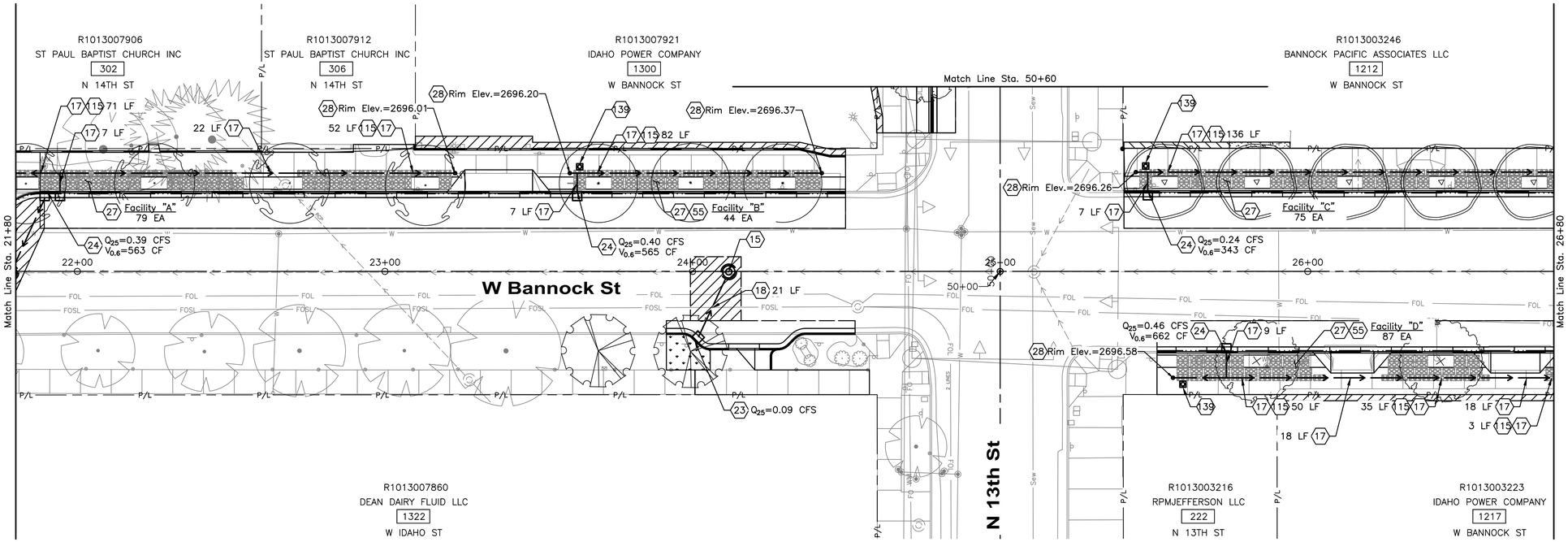
60% COMPLETED

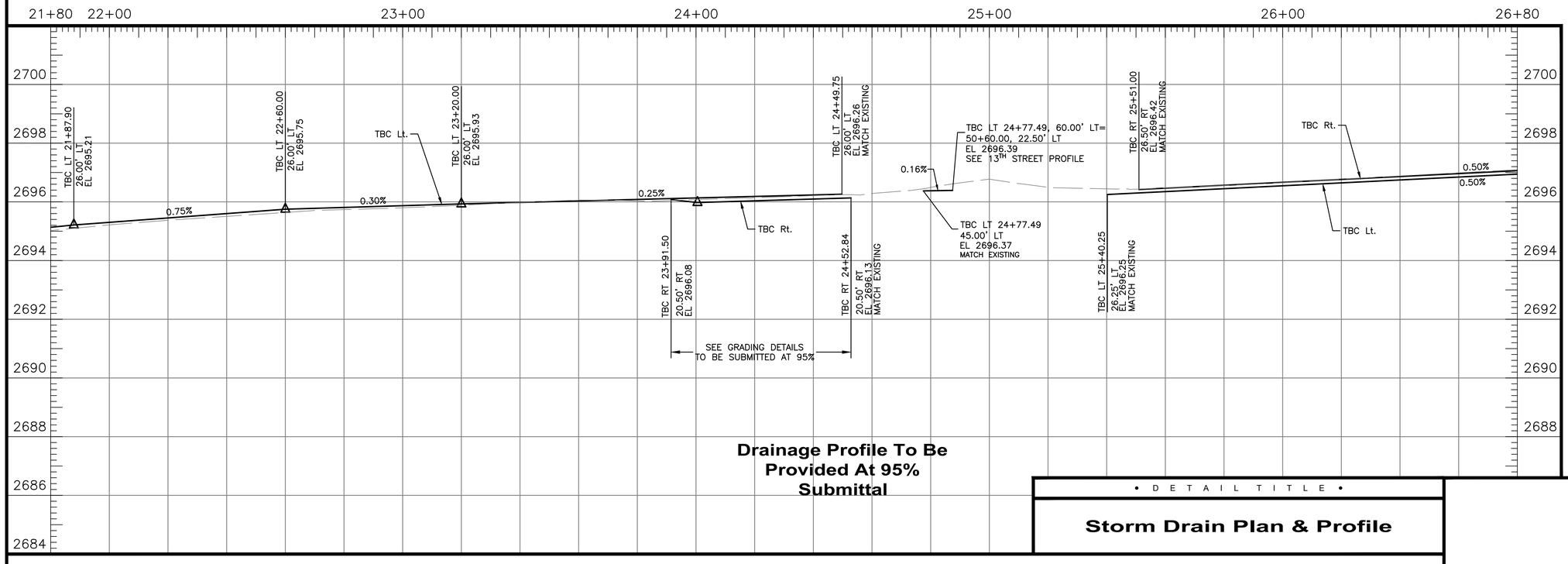
Revisions:

Design By: M. Blum Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23





Drainage Profile To Be Provided At 95% Submittal

N O T E S

15 Storm Drain Manhole – Type B – Raised Invert, 60", Item 602.4.1.A.1.60

17 6" SDR 35 PVC Pipe, Item 601.4.1.A.5.6

18 12" Storm Drain Pipe, Class C900 PVC Item 601.4.1.A.5.12

23 Catch Basin – Type I, Item 602.4.1.F.1.1

24 Shallow Inlet – Type I, Item 602.4.1.F.1.1.A

27 Stormwater Tree (Silva) Cells, Type 2X Item SP 02028

28 Traffic Rated Clean–Out, Per BMP33 In ACHD Policy Manual Section 8200, Item SP 06006

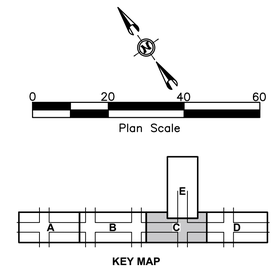
55 Crushed Aggregate for Base Type 2" Drain Rock, Item 802.4.1.A.1.2

15 Perforate Distribution Pipe Per Detail X. Detail To Be Provided At 95% Submittal.

39 Groundwater Observation Well, Item SSP 29110

General Notes

1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.



412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

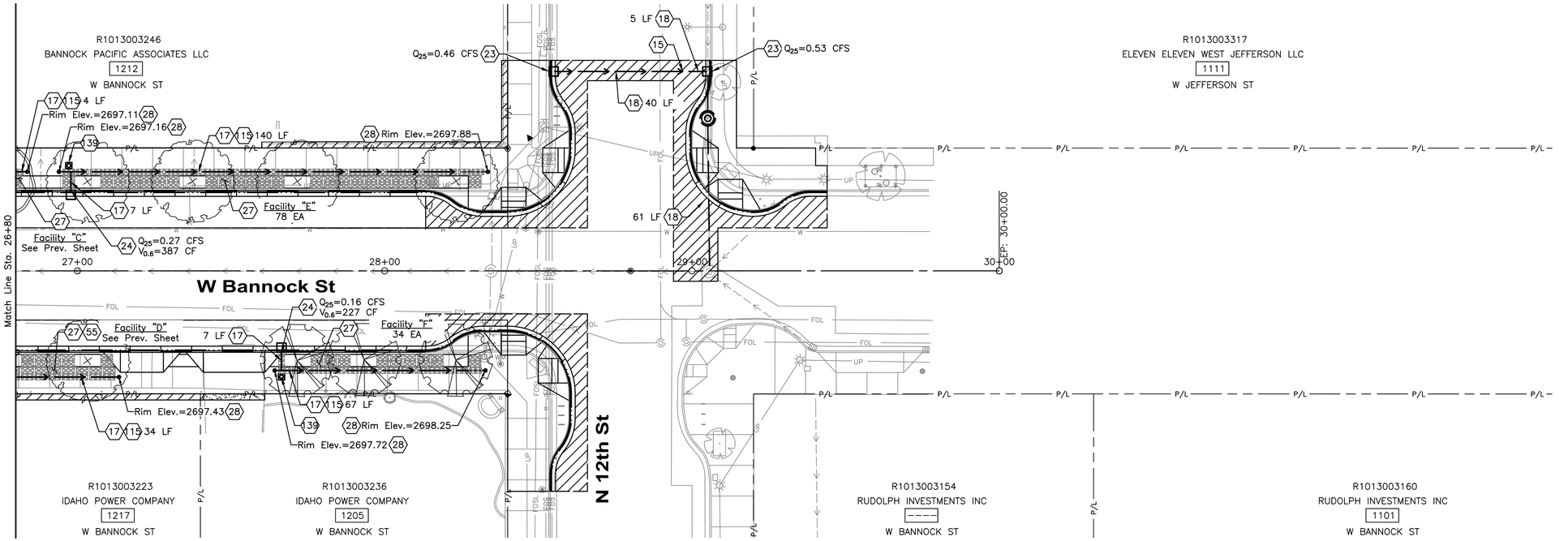
Approval Stamp

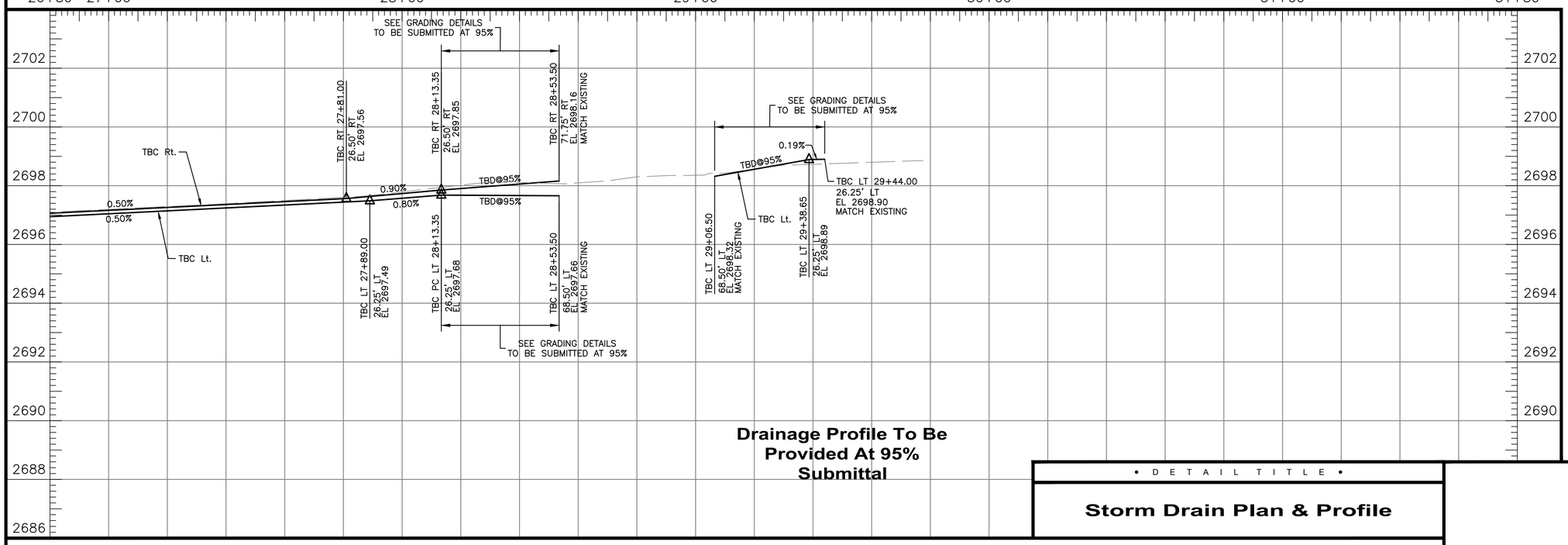
• D E T A I L T I T L E •

Storm Drain Plan & Profile

60% COMPLETED

Revisions:	Design By: M. Blum	Date: 12/23	Drawn By: HDR	Date: 12/23	Survey By: Civil Survey	Date: 05/23





Drainage Profile To Be Provided At 95% Submittal

N O T E S

15 Storm Drain Manhole – Type B – Raised Invert, 60", Item 602.4.1.A.1.60

17 6" SDR 35 PVC Pipe, Item 601.4.1.A.5.6

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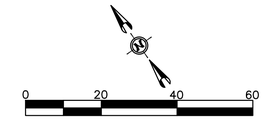
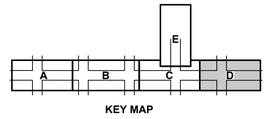
General Notes

1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.





KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

• D E T A I L T I T L E •

Storm Drain Plan & Profile

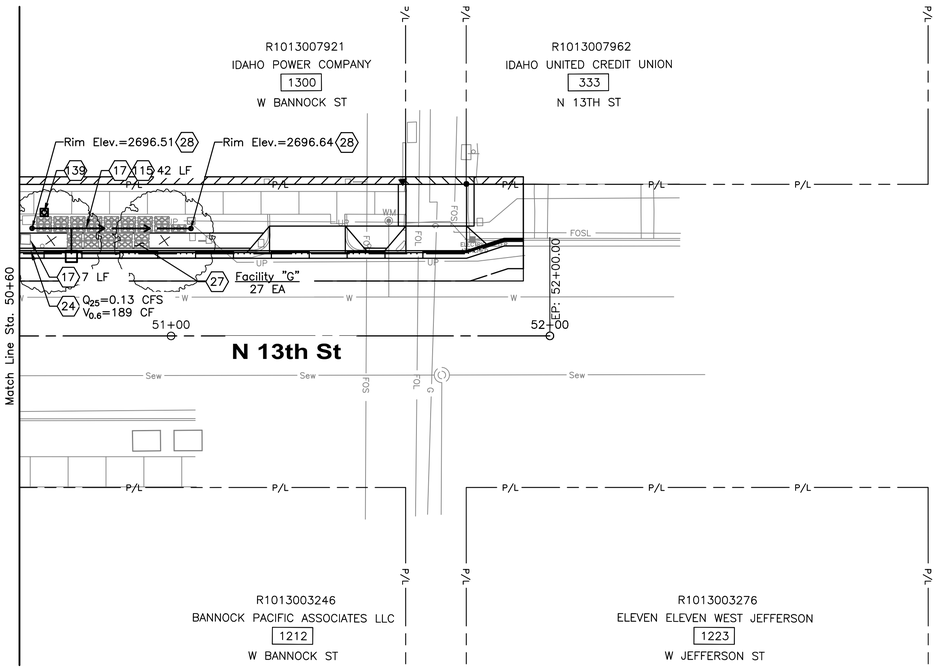
60% COMPLETED

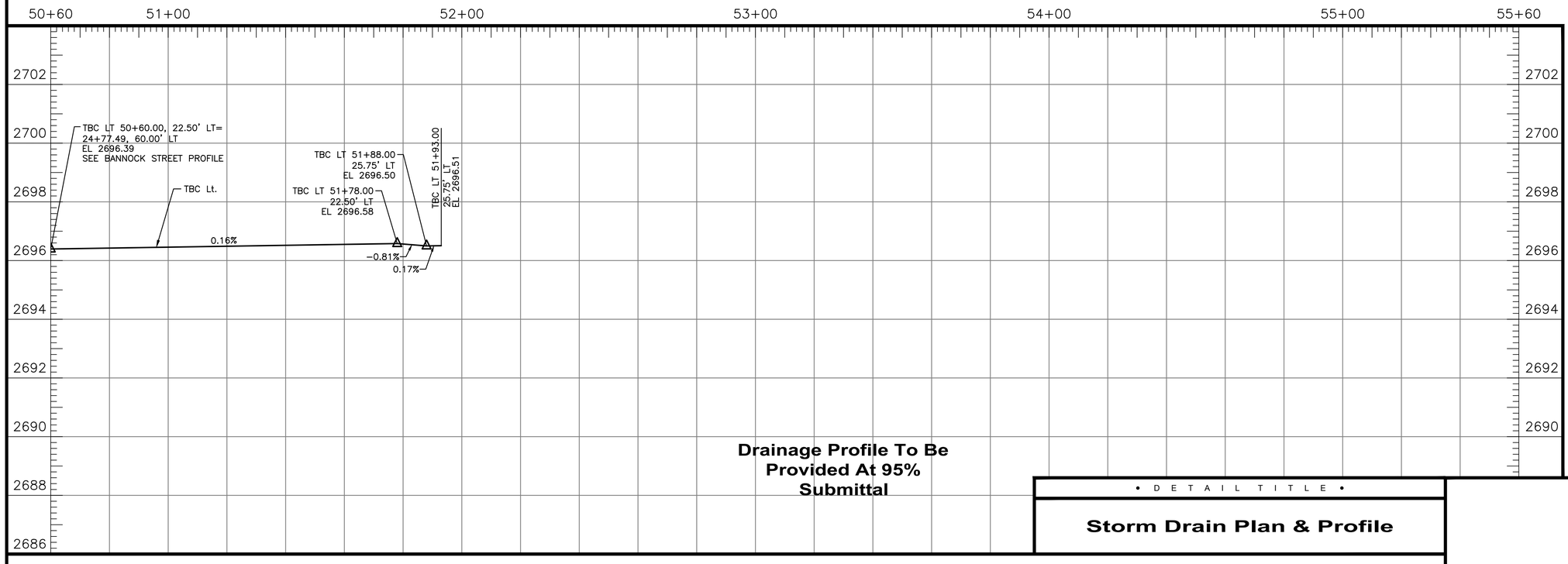
Revisions:

Design By: M. Blum Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23





Drainage Profile To Be Provided At 95% Submittal

N O T E S

(17) 6" SDR 35 PVC Pipe, Item 601.4.1.A.5.6

(24) Shallow Inlet – Type I, Item 602.4.1.F.1.1.A

(27) Stormwater Tree (Silva) Cells, Type 2X Item SP 02028

(28) Traffic Rated Clean-Out, Per BMP33 In ACHD Policy Manual Section 8200, Item SP 06006

(90) Retain And Protect Existing Signal Infrastructure Including Cabinet, Service Pedestals, Foundations, Conduit & Cabling.

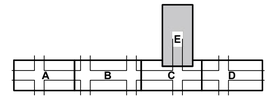
(15) Perforate Distribution Pipe Per Detail X. Detail To Be Provided At 95% Submittal.

(39) Groundwater Observation Well, Item SSP 29110

General Notes

1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.

0 20 40 60
Plan Scale



KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

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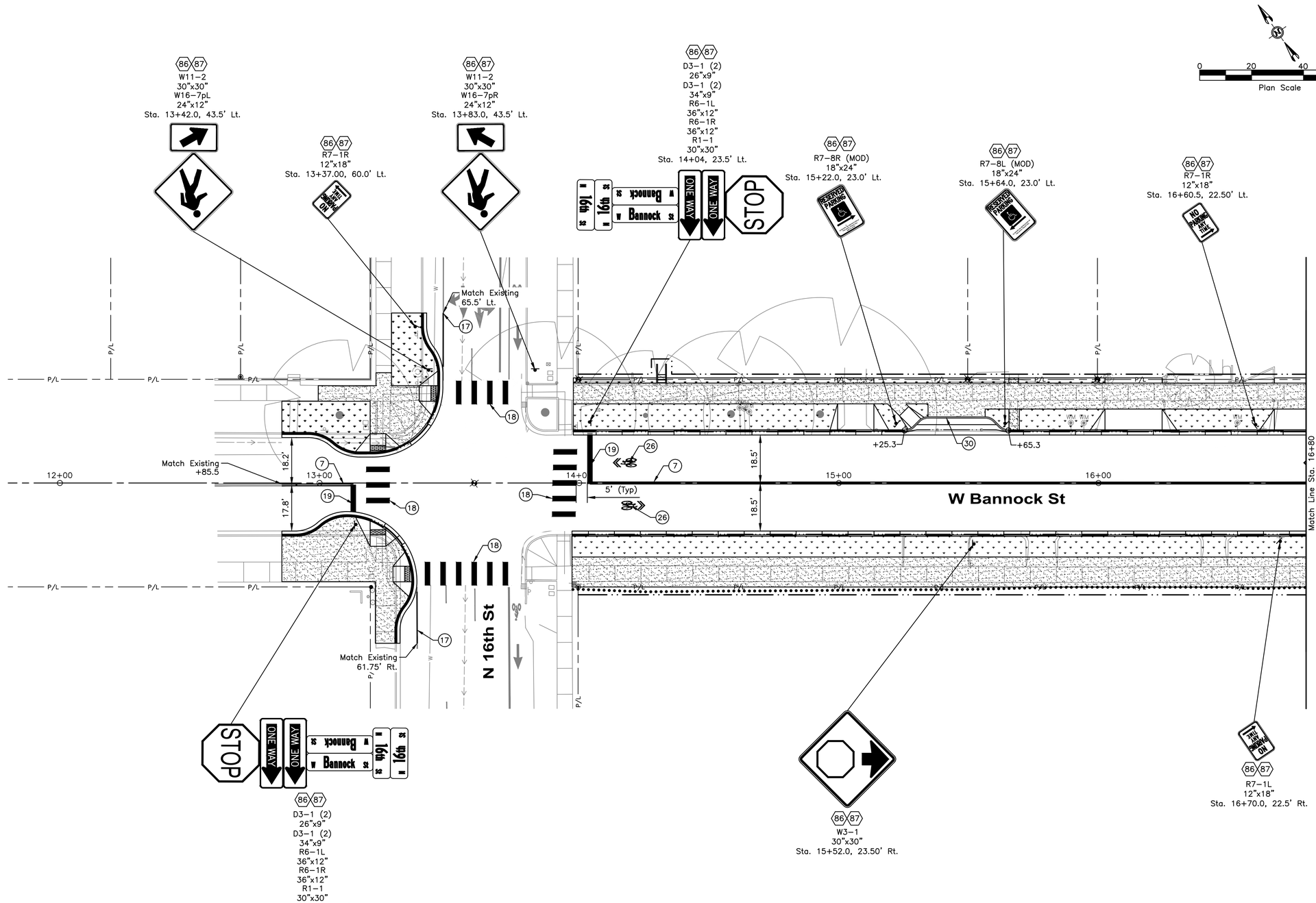
Storm Drain Plan & Profile

60% COMPLETED

Revisions:	Design By: M. Blum	Date: 12/23	Drawn By: HDR	Date: 12/23	Survey By: Civil Survey	Date: 05/23



N O T E S

(86) Roadside Traffic Sign Installation (One Metal Post), Item 1135.01.01

(87) Furnish Roadside Sign Face, Item 1135.01.05

1. See ACHD Standard Details TS–1112 & TS–1113 For Standard Lane Use Pavement Marking Details.
2. All Symbols, Stop Bars, Word Markings, Yield Lane Markings, And Crosswalks Shall Be Thermoplastic, Item 1134.05.21, All Remaining Pavement Markings Shall Be Paint, Item 1134.03.21
3. Match Existing Pavement Markings As Presented.
4. Completely Obliterate All Conflicting Pavement Markings.
5. Pavement Marking Dimensions Shown Are From Lip Of Gutter Or Face Of Curb To Center Of Marking.
6. The Locations Of Post Mounted Signs Shall Be Field Verified By ACHD Prior To Installation. Contractor Shall Provide ACHD With Two Working Days Notice Prior To Field Verification.
7. Place All Parking Restriction Signs At A 45 Degree Angle With Respect To The Back Of Walk And/Or Curb.
8. Sign Removals To Be Shown At 95% Design Submittal

LEGEND

(3) 4" White Lane Line (7' Length 18' Gap)

(7) 4" Double Yellow

(12) 8" White Bike Lane At Int. 2' Length & 6' Gap

(15) 8" White

(17) 4" White, Right Edgeline

(18) 24" White, 9' Wide –Crosswalk

(19) 24" White – Stop Bar

(23) Green Bike Lane Markings, 2' Length & 6' Gap

(25) Bike Lane Symbol & Arrow

(26) Sharrow

(30) Blue Paint, Item No. SP 11501

KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: J. Bendy Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23

• D E T A I L T I T L E •

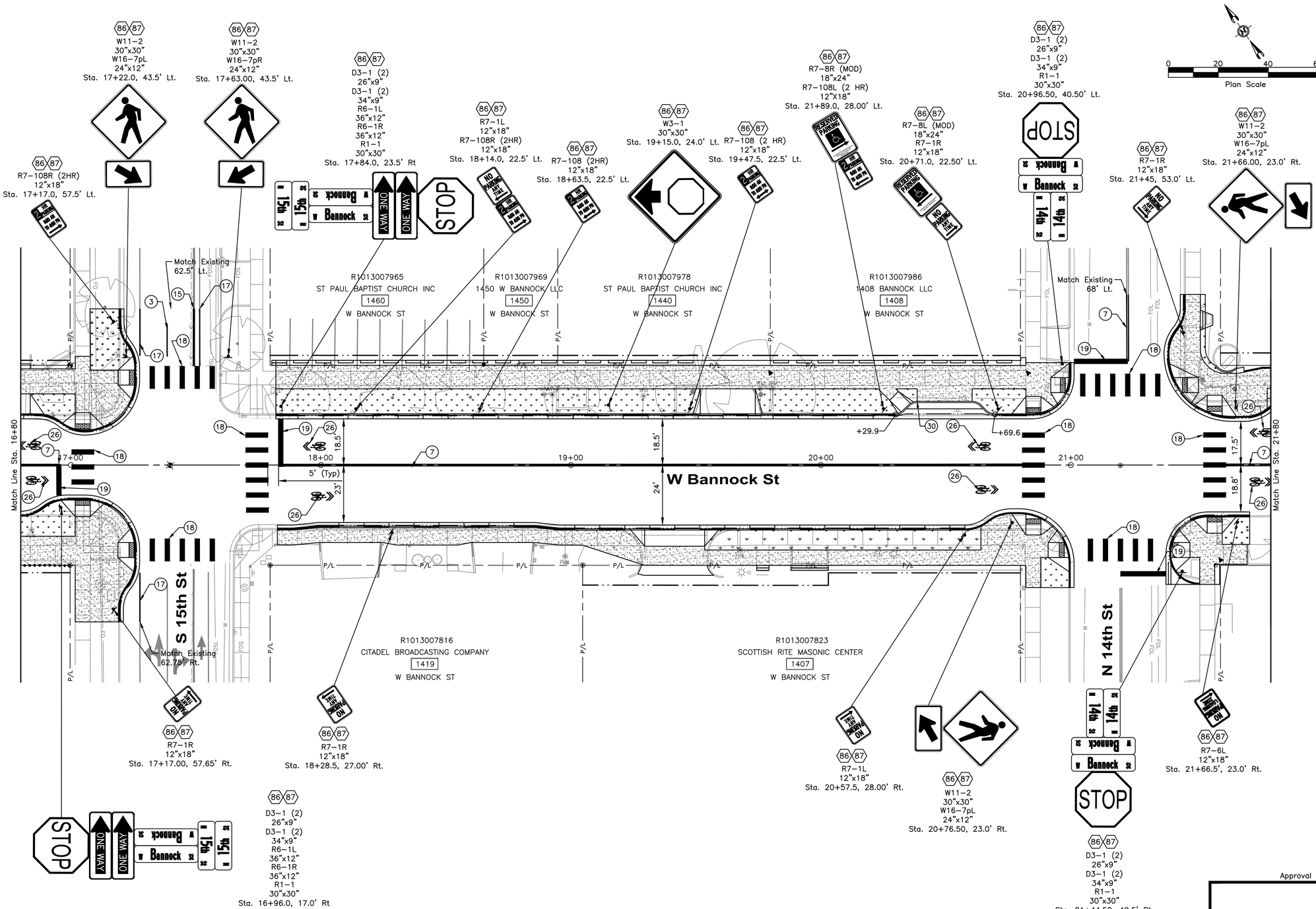
Bannock St Signage And Striping Plan

Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet T1.01



N O T E S

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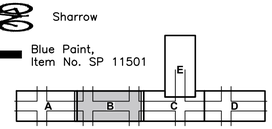
(19) 24" White – Stop Bar

(23) Green Bike Lane Markings, 2' Length & 6' Gap

(25) Bike Lane Symbol & Arrow

(26) Sharrow

(30) Blue Paint, Item No. SP 11501



KEY MAP

HDR
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SUITE 100
BOISE, ID 83706

Approval Stamp

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Revisions:

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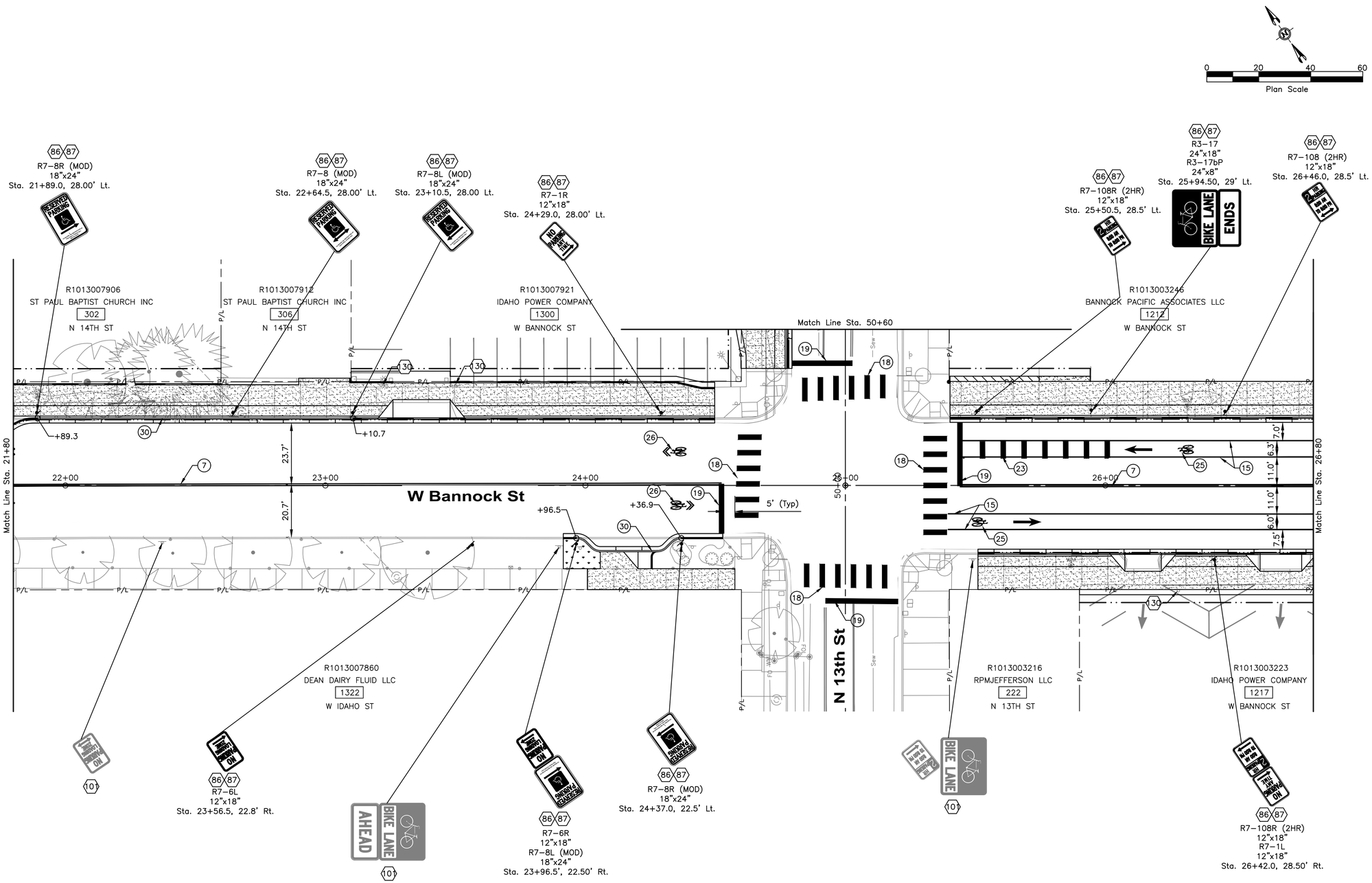
Design By: J. Bendy Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23

• D E T A I L T I T L E •

Bannock St Signage And Striping Plan



N O T E S

(86)(87) Roadside Traffic Sign Installation (One Metal Post), Item 1135.01.01

(87) Furnish Roadside Sign Face, Item 1135.01.05

(10) Retain And Protect Existing Sign

(30) Coordinate With Property Owner To Relocate Commercial Sign, Incidental To 201.4.1.C.1

1. See ACHD Standard Details TS–1112 & TS–1113 For Standard Lane Use Pavement Marking Details.
2. All Symbols, Stop Bars, Word Markings, Yield Lane Markings, And Crosswalks Shall Be Thermoplastic, Item 1134.05.21, All Remaining Pavement Markings Shall Be Paint, Item 1134.03.21.
3. Match Existing Pavement Markings As Presented.
4. Completely Obliterate All Conflicting Pavement Markings.
5. Pavement Marking Dimensions Shown Are From Lip Of Gutter Or Face Of Curb To Center Of Marking.
6. The Locations Of Post Mounted Signs Shall Be Field Verified By ACHD Prior To Installation. Contractor Shall Provide ACHD With Two Working Days Notice Prior To Field Verification.
7. Place All Parking Restriction Signs At A 45 Degree Angle With Respect To The Back Of Walk And/Or Curb.
8. Sign Removals To Be Shown At 95% Design Submittal

LEGEND

(3) 4" White Lane Line (7' Length 18' Gap)

(7) 4" Double Yellow

(12) 8" White Bike Lane At Int. 2' Length & 6' Gap

(15) 8" White

(17) 4" White, Right Edgeline

(18) 24" White, 9' Wide –Crosswalk

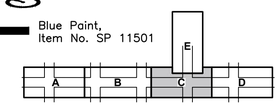
(19) 24" White – Stop Bar

(23) Green Bike Lane Markings, 2' Length & 6' Gap

(25) Bike Lane Symbol & Arrow

(26) Sharrow

(30) Blue Paint, Item No. SP 11501



KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

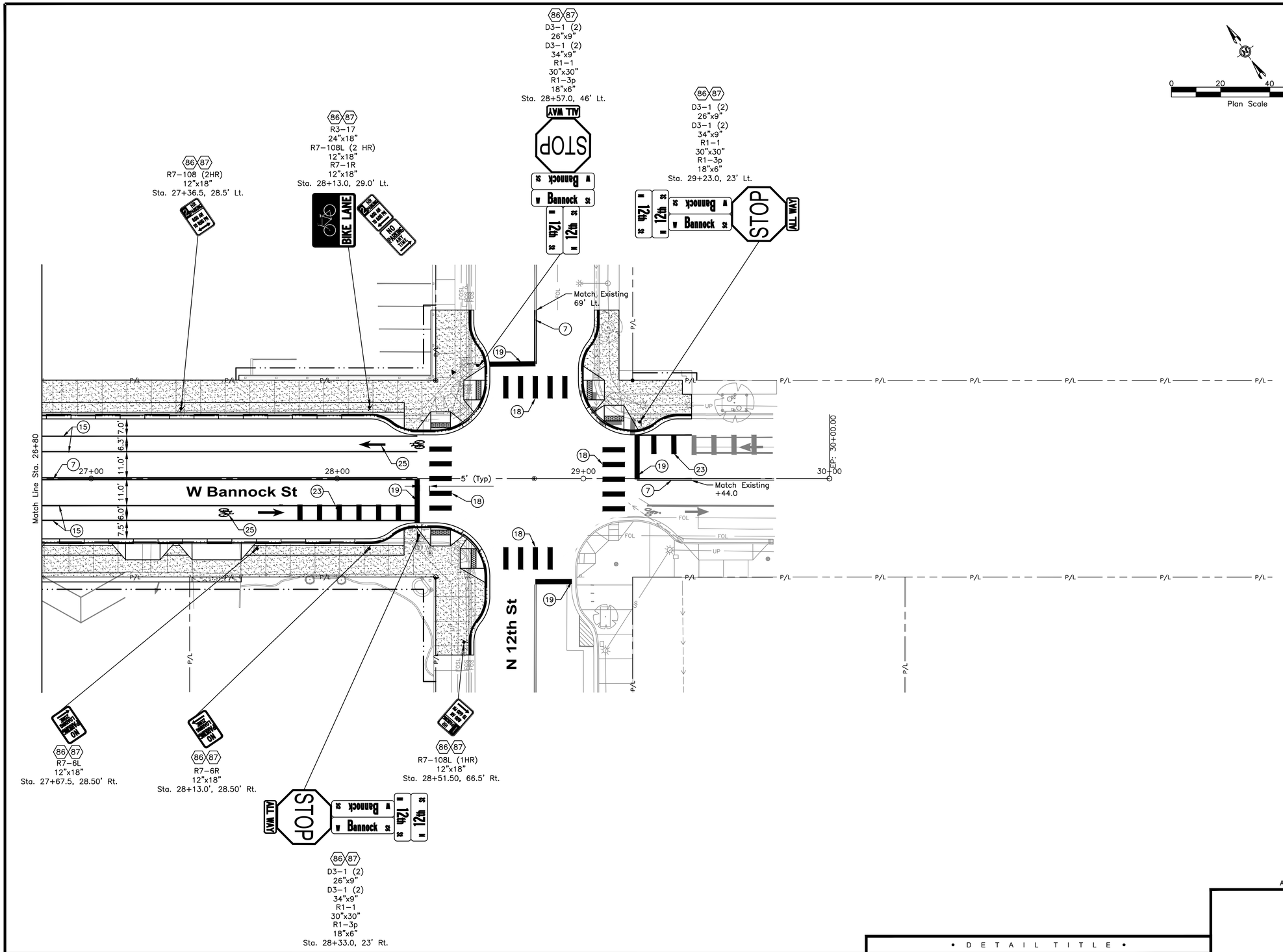
Design By: J. Bendy Date: 12/23

Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23

• D E T A I L T I T L E •

Bannock St Signage And Striping Plan



0 20 40 60

Plan Scale

N O T E S

86 Roadside Traffic Sign Installation (One Metal Post), Item 1135.01.01

87 Furnish Roadside Sign Face, Item 1135.01.05

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LEGEND

3 — 4" White Lane Line (7' Length 18' Gap)

7 4" Double Yellow

12 8" White Bike Lane At Int. 2' Length & 6' Gap

15 8" White

17 4" White, Right Edgeline

18 24" White, 9' Wide –Crosswalk

19 24" White – Stop Bar

23 2' Green Bike Lane Markings, 2' Length & 6' Gap

25 Bike Lane Symbol & Arrow

26 Sharrow

30 Blue Paint, Item No. SP 11501

KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

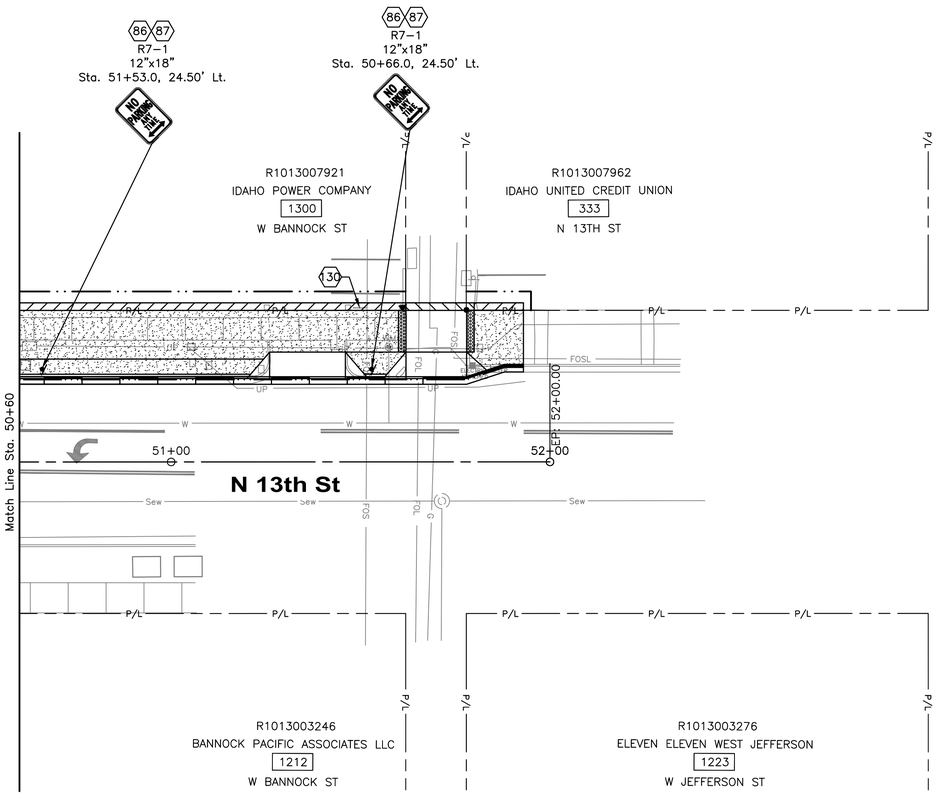
Design By: J. Bendy Date: 12/23

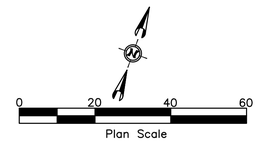
Drawn By: HDR Date: 12/23

Survey By: Civil Survey Date: 05/23

• D E T A I L T I T L E •

Bannock St Signage And Striping Plan





N O T E S

86 Roadside Traffic Sign Installation (One Metal Post), Item 1135.01.01

87 Furnish Roadside Sign Face, Item 1135.01.05

130 Coordinate With Property Owner To Relocate Commercial Sign, Incidental To 201.4.1.C.1

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15 8" White

17 4" White, Right Edgeline

18 24" White, 9' Wide –Crosswalk

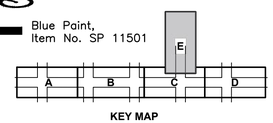
19 24" White – Stop Bar

23 Green Bike Lane Markings, 2' Length & 6' Gap (2', 6')

25 Bike Lane Symbol & Arrow

26 Sharrow

30 Blue Paint, Item No. SP 11501



KEY MAP

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

Approval Stamp

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: J. Bendy Date: 12/23

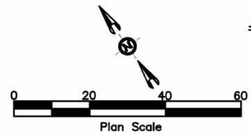
Drawn By: HDR Date: 12/23

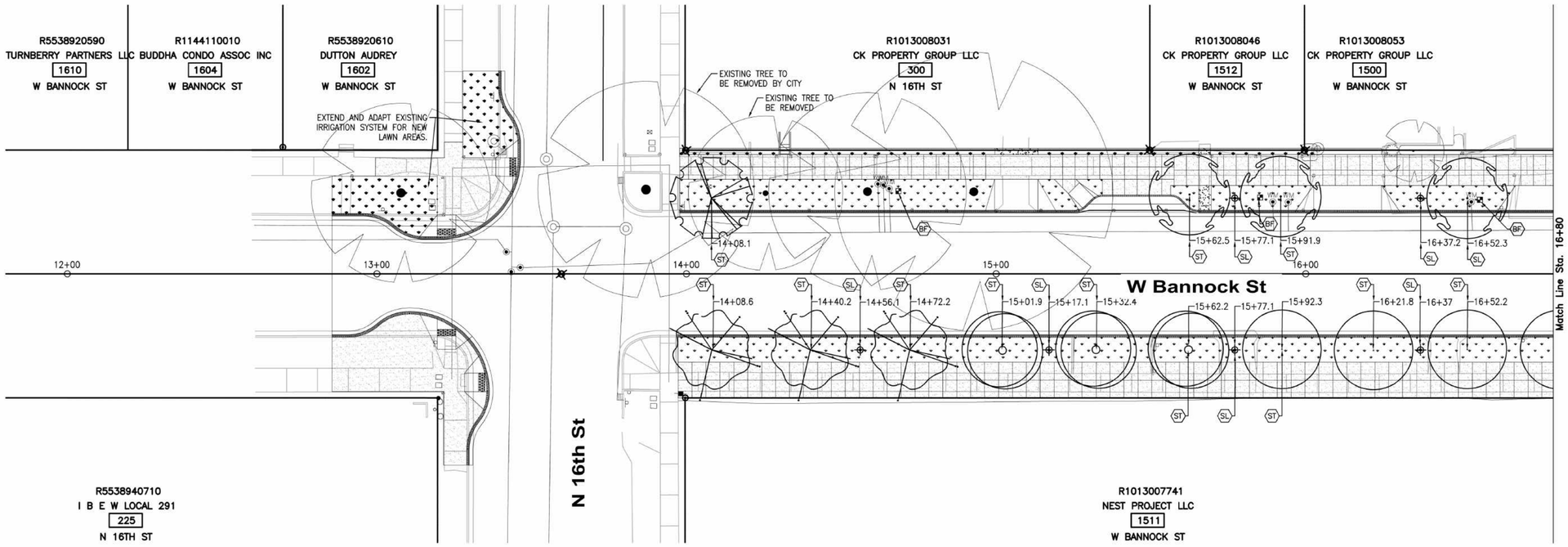
Survey By: Civil Survey Date: 05/23

• D E T A I L T I T L E •

13th St Signage And Striping Plan

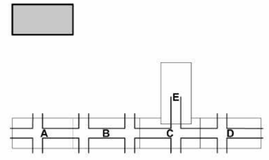
N O T E S





SYMBOL LEGEND

⊕	SL	PROVIDE AND INSTALL HISTORIC LIGHT. SEE ELECTRICAL DRAWINGS.
●	ST	INSTALL TREE PER DETAIL 3, SHT L2.2. SEE TREE SCHEDULE, THIS SHT.
▭	TW	4'X8' TREE WELL. PROVIDE AND INSTALL GRATE & FRAME, AND ROOT BARRIER RE: DETAIL 1, SHT L2.2 AND SPEC SECTION 32 33 00.
–	BR	PROVIDE AND INSTALL STANDARD BIKE RACK LOOP. SURFACE MOUNT. POWERCOAT RAL-6009 PER DETAIL 4, SHT L2.2.
O	PP	PRE-CAST CONCRETE PLANTER. PLANTED BY DBA. SEET DTL 5, SHT L2.2 & SPECS.
▪	BF	IRRIGATION POINT OF CONNECTION TO NEW METER. PROVIDE AND INSTALL AN RP BACKFLOW PREVENTER IN STRONGBOX ENCLOSURE, DRIP OR LAWN CONTROL ZONE, AND IRRIGATION CONTROLLER IN TRAFFIC RATED VALVE BOX. SEE NOTES SHT L2.1.
⁘		SODDED LAWN PER DIVISION 32 – EXTERIOR IMPROVEMENTS



KEY MAP

CSHQA
Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

• S I G N A T U R E S •

Revisions:

Design By: K.Hemly Date: 12/08

Drawn By: CSHQA Date: 12/08

Survey By: CIVIL SURVEY Date: 05/23

• D E T A I L T I T L E •

CAPITAL CITY DEVELOPMENT CORP

Capital City Development Corp

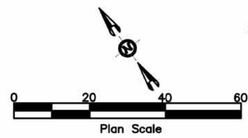
121 N. 9th Street Suite 501, Boise, Idaho, 83702.
www.ccdcboise.com

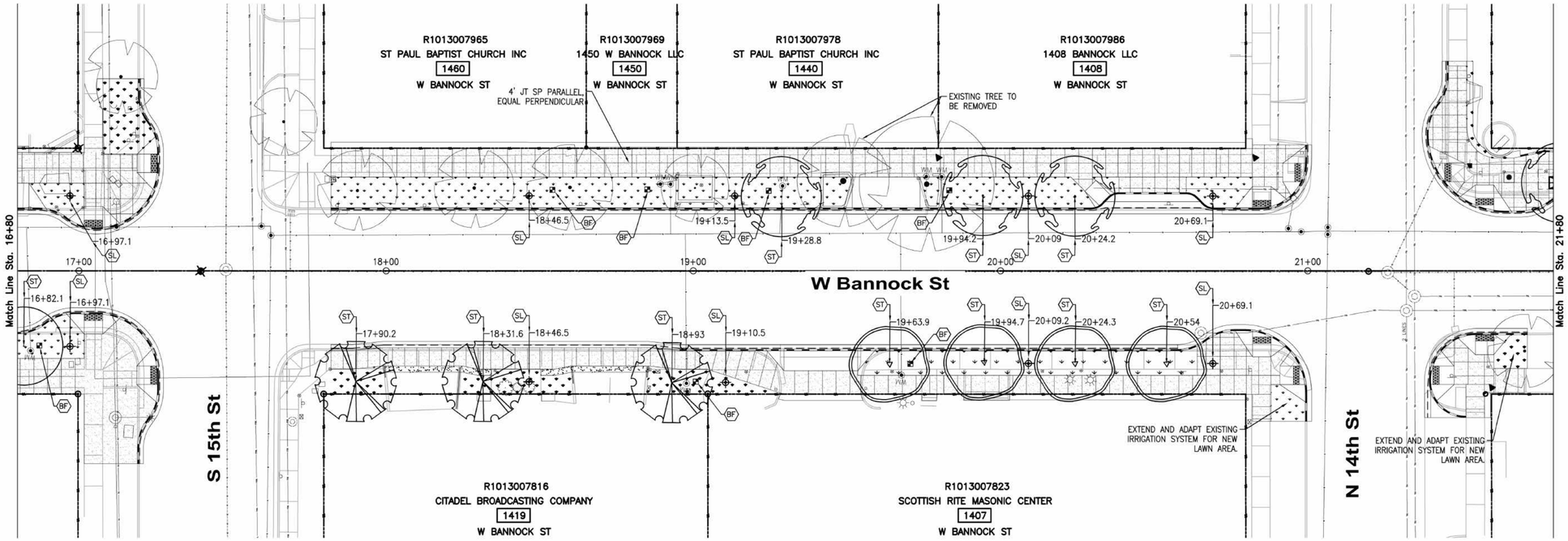
Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet L1.1

N O T E S





SYMBOL LEGEND

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▣	TW	4'X8' TREE WELL. PROVIDE AND INSTALL GRATE & FRAME, AND ROOT BARRIER RE: DETAIL 1, SHT L2.2 AND SPEC SECTION 32 33 00.
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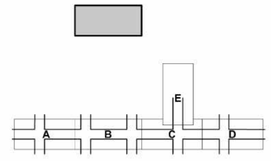
⁘		SODDED LAWN PER DIVISION 32 – EXTERIOR IMPROVEMENTS



KEY MAP

CSHQA
Approval Stamp

HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

• D E T A I L T I T L E •

• S I G N A T U R E S •

Revisions:

Design By: K.Hemly	Date: 12/08	Drawn By: CSHQA	Date: 12/08	Survey By: CIVIL SURVEY	Date: 05/23

CAPITAL CITY DEVELOPMENT CORP

Capital City Development Corp . 121 N. 9th Street Suite 501, Boise, Idaho, 83702 . www.ccdcboise.com

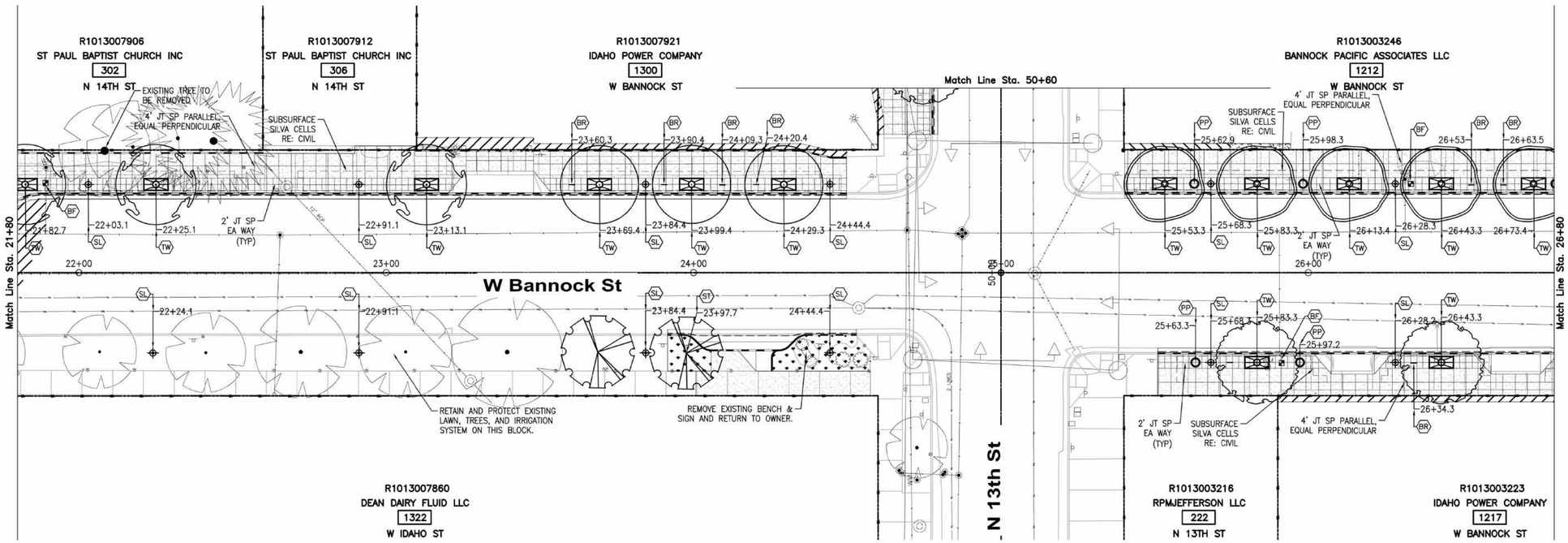
Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet L1.2

N O T E S

0 20 40 60
Plan Scale



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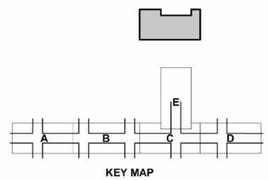


KEY MAP

CSHQA
Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

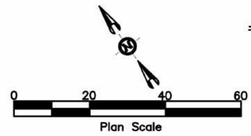
• D E T A I L T I T L E •

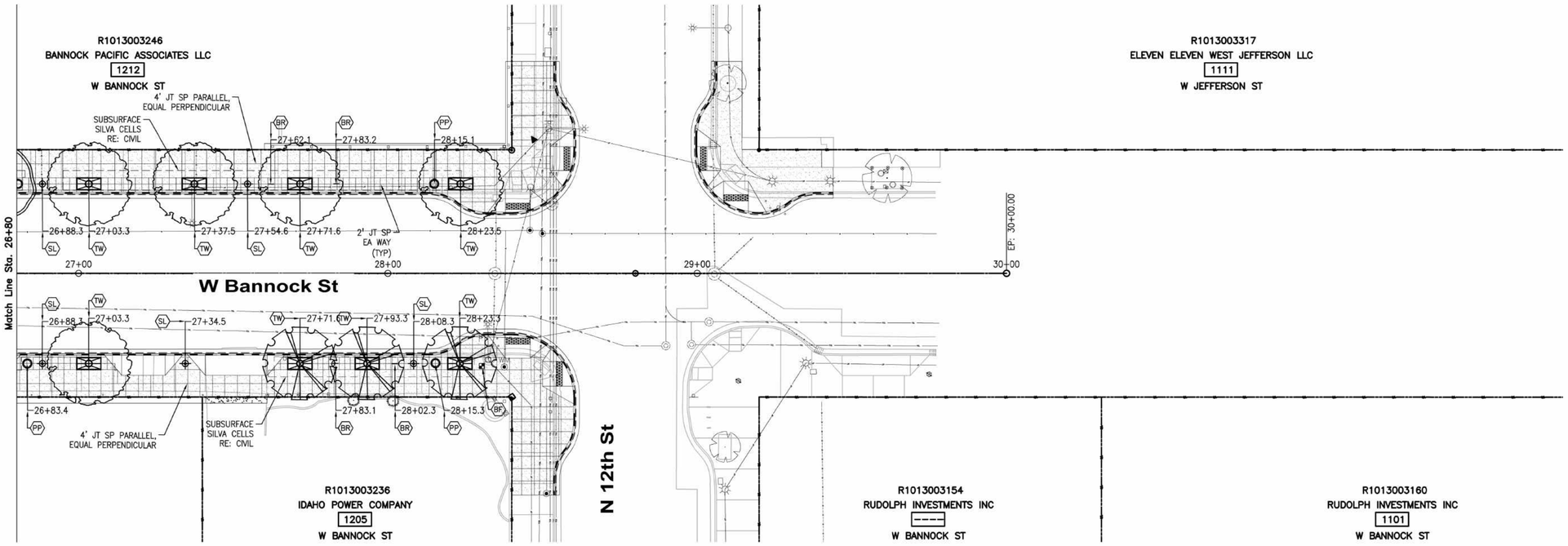
• S I G N A T U R E S •

Revisions:

Design By: K.Hemly	Date: 12/08	Drawn By: CSHQA	Date: 12/08	Survey By: CIVIL SURVEY	Date: 05/23

N O T E S





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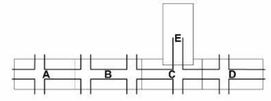


KEY MAP

CSHQA
Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

• D E T A I L T I T L E •

Revisions:

• S I G N A T U R E S •

Design By: K.Hemly	Date: 12/08	Drawn By: CSHQA	Date: 12/08	Survey By: CIVIL SURVEY	Date: 05/23

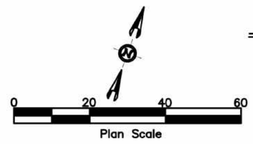
CAPITAL CITY DEVELOPMENT CORP
Capital City Development Corp
.121 N. 9th Street Suite 501, Boise, Idaho, 83702.
www.ccdcboise.com

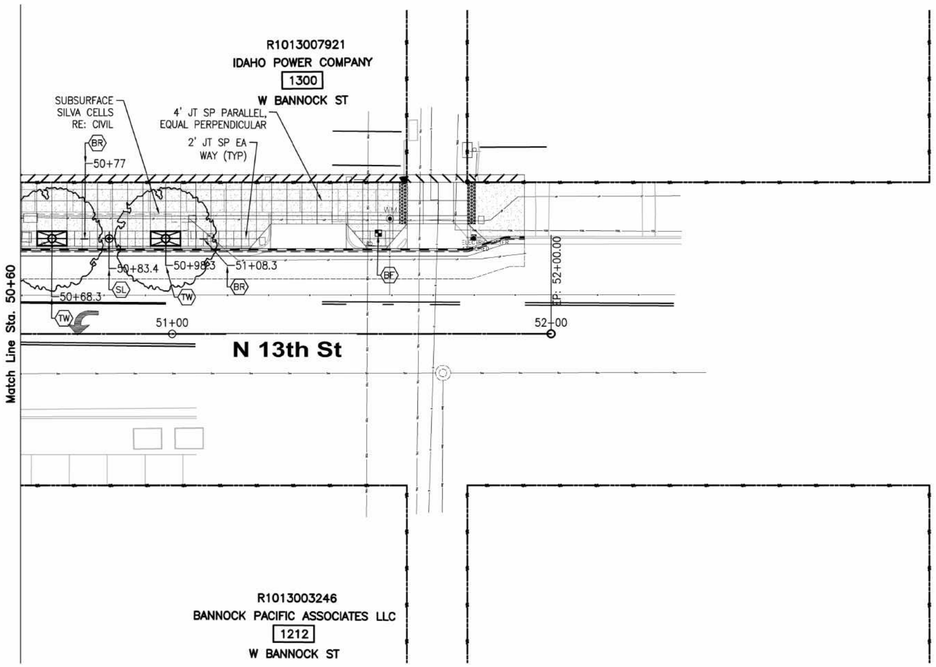
Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet L1.4

N O T E S





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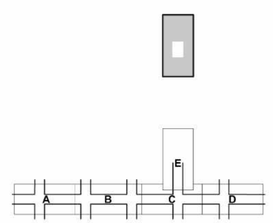
⁘			SODDED LAWN PER DIVISION 32 – EXTERIOR IMPROVEMENTS



KEY MAP

CSHQA
Approval Stamp

HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

PROFESSIONAL ENGINEER
12247
STATE OF IDAHO
PERSON T. DEWIT
60% COMPLETED

• D E T A I L T I T L E •

Revisions:

• S I G N A T U R E S •

Design By: K.Hemly	Date: 12/08	Drawn By: CSHQA	Date: 12/08	Survey By: Civil Survey	Date: 05/23

CAPITAL CITY DEVELOPMENT CORP

Capital City Development Corp

121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet L1.5

LANDSCAPE NOTES

A. LOCATE AND PROTECT ALL UTILITIES DURING CONSTRUCTION UNLESS OTHERWISE NOTED PER CIVIL DWGS. COORDINATE WITH VIOLA WATER, IDAHO POWER, BOISE CITY IT, AND BOISE CITY GEOTHERMAL FOR RELATED UTILITY UPDATES THAT COINCIDE WITH THIS PROJECT. ADJUST EXISTING UTILITIES TO FINISH ELEVATION.

B. RETAIN AND PROTECT ALL TRAFFIC SIGNAL WIRING AND CONDUIT, OR REPLACE AS NECESSARY IN ACCORDANCE TO ACHD REQUIREMENTS. REFER TO CIVIL DWGS.

C. ALL WORK SHALL BE IN COMPLIANCE WITH LATEST EDITION ISPWC SPECIFICATIONS & DETAILS AND PROJECT SPECIAL PROVISIONS. REFER TO DIVISION 32 – EXTERIOR IMPROVEMENTS FOR ALL LANDSCAPE AND IRRIGATION INSTALLATION REQUIREMENTS.

D. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING REQUIREMENTS.

E. BOISE CITY FORESTRY REQUIRES WITNESSING TREE PLANTING DEMONSTRATION AT FIRST TREE INSTALLATION. REFER TO SPECIFICATION SECTION 32 90 00.

F. THE CONTRACTOR TO PROVIDE AND INSTALL STREETSCAPE FURNISHINGS PER THE CITY OF BOISE'S DOWNTOWN BOISE STREETSCAPE STANDARDS AND SPEC SECTION 32 33 00 – SITE FURNISHINGS AT LOCATIONS AS INDICATED ON THE DWGS.

G. RETAIN AND PROTECT ALL EXISTING TREES UNLESS OTHERWISE NOTED. ALL EXISTING TREES TO REMAIN SHALL BE PROVIDED TEMPORARY IRRIGATION WATER FOR THE DURATION OF CONSTRUCTION.

H. IMMEDIATELY AFTER AWARD OF CONTRACT, NOTIFY THE ARCHITECT OF AVAILABILITY OF SPECIFIED PLANT MATERIAL FROM COMMERCIAL NURSERIES. IF A SPECIFIED PLANT IS NOT AVAILABLE, THE ARCHITECT WILL PROVIDE ALTERNATE PLANT MATERIAL SELECTIONS. SUCH CHANGES SHALL NOT ALTER THE ORIGINAL BID PRICE UNLESS A CREDIT IS DUE TO THE OWNER.

I. LANDSCAPE INSTALLATION SPECIFICATIONS ARE IN BOOK FORM. CONFORM TO ALL CONDITIONS AND REQUIREMENTS CONTAINED WITHIN. HAVE AVAILABLE ON THE JOB SITE AT ALL TIMES, AND IN CHRONOLOGICAL ORDER, THE PROJECT CONSTRUCTION DRAWINGS & SPECIFICATIONS FOR INSPECTION BY THE ARCHITECT. RETAIN ON SITE ALL OFFICIAL / APPROVED ADDENDUM'S, CHANGE ORDERS, AND / OR CONSTRUCTION CHANGE DIRECTIVES SPECIFIC TO THE LANDSCAPE INSTALLATION.

J. VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITY SYSTEMS PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION THAT MAY CAUSE DAMAGE TO SUCH SYSTEMS. CALL 1-800-642-2444 TO LOCATE EXISTING UTILITIES. REPAIR / REPLACE DAMAGED UTILITIES TO THE SATISFACTION OF THE OWNER OR GOVERNING AGENCY, AND AT NO ADDITIONAL COST TO THE OWNER OR INCREASE IN BID AMOUNT.

K. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL PLANTED AREAS. ALL DELETERIOUS MATERIAL SUCH AS ROCK, TRASH, CONSTRUCTION DEBRIS, AGGREGATE BASE MATERIAL, ASPHALT, ETC.., SHALL BE REMOVED PRIOR TO ANY FILL OPERATIONS. RIP SUB GRADE AS PER SPECIFICATIONS. FILL ALL PLANTING AREAS WITH CLEAN EARTHEN FILL, AS PER SPECIFICATIONS. SOIL SHALL BE FREE OF HEAVY, STIFF CLAY AND ANY DELETERIOUS MATERIAL OVER ONE INCH IN SIZE. THE TOP SIX INCHES OF FILL MATERIAL SHALL BE TOPSOIL EQUAL TO THAT REQUIRED IN THE SPECIFICATIONS. CLEAN TOPSOIL STRIPPED FROM SITE MAY BE UTILIZED FOR PLANTER OR TOPSOIL FILL IF PRIOR APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECT.

L. EXCAVATED PLANT PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS (WHEN FULLY FLOODED WITH WATER) SHALL DRAIN WITHIN 1 HOUR OF FILLING. ENSURE THAT ALL PLANT PITS HAVE POSITIVE DRAINAGE.

M. PROVIDE REQUIRED SOIL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT PERIOD. SHOULD THERE BE EXISTING SOIL EROSION CONDITIONS THAT REQUIRE MITIGATION, NOTIFY THE ARCHITECT IMMEDIATELY.

N. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL LANDSCAPE PLANTING AREAS DAMAGED AS A RESULT OF NEW CONSTRUCTION. RE: CIVIL PLANS, SITE ELECTRICAL PLANS. REPAIR INCLUDES BUT IS NOT LIMITED TO TREES, SHRUBS GROUNDCOVER AND LAWN; MULCH; TOPSOIL; EDGING; LANDSCAPE FABRIC.

IRRIGATION NOTES

A. REFER TO SPECIFICATION SECTION 32 84 00 FOR IRRIGATION REQUIREMENTS.

B. PROVIDE THE FOLLOWING AT EACH POINT OF CONNECTION LOCATION PER PLANS – CONNECT TO NEW OR EXISTING WATER METER FOR IRRIGATION AS NOTED. PROVIDE 1" MANUAL CONTROL VALVE, 3/4" MANUAL DRAIN VALVE AT EACH CONNECTION. PROVIDE PROVISION FOR WINTERIZATION.

C. IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER TO BE INSTALLED ABOVE-GROUND AND ENCLOSED IN STRONG BOX ALUMINUM BACKFLOW ENCLOSURE SIZED TO COVER AND LOCK SECURELY. INSTALLATION SHALL BE PER STATE PLUMBING CODES AND ORDINANCES.

D. IN STREETSCAPE LOCATIONS: CONSTRUCT IRRIGATION SERVICE IN TRAFFIC RATED VALVE BOXES IN APPROVED LOCATION. PROVIDE 3/4" DRIP SYSTEM CONTROL VALVE KIT AND BATTERY OPERATED HUNTER NODE CONTROLLER. SILVA CELL DRIP IRRIGATION TO BE ON DEDICATED ZONE SEPARATE FROM THE TREE IRRIGATION.

E. IN LAWN LOCATIONS: CONSTRUCT IRRIGATION SERVICE IN TRAFFIC RATED VALVE BOXES IN APPROVED LOCATION. PROVIDE AT LEAST TWO (2) ICV-101G-DC REMOTE CONTROL VALVE ZONES AND BATTERY OPERATED HUNTER NODE CONTROLLER. INSTALL HUNTER PROS-06-PRS30-10 SPRINKLER SPRAY HEADS, PATTERN PER PLAN.

F. IN SILVA CELL LOCATIONS: INSTALL DRIP LINE BETWEEN SILVA CELL ROWS, 2' O.C. PLACE ON PLANTING SOIL SURFACE TUCKED BETWEEN SILVA CELL TOP DECKS. SILVA CELL DRIP IRRIGATION TO BE ON DEDICATED ZONE SEPARATE FROM THE STREET TREE IRRIGATION. REFER TO CIVIL SILVA CELL DWGS AND DETAILS.

G. IRRIGATION SUPPLY TO BE 1" CLASS II PVC LATERAL SUPPLY LINES IN 2" SLEEVE, REPRESENTED ON PLANS.

H. PROVIDE 20' DOUBLE LOOP OF DRIPPERLINE TO EACH TREE. STREET TREE DRIP IRRIGATION TO BE ON DEDICATED ZONE SEPARATE FROM SILVA CELL IRRIGATION.

I. CAP AND REMOVE ALL EXISTING IRRIGATION FOUND IN STREETSCAPE/LANDSCAPE IMPROVEMENT AREAS. TRACE EXISTING LINES BACK TO IRRIGATION SOURCE TO ENSURE CONNECTIONS HAVE BEEN PROPERLY CAPPED AND ANY IRRIGATED AREAS OUTSIDE THE STREETSCAPE WORK LIMITS ARE RETAIN, ADJUSTED TO PROVIDE IRRIGATION FOR RESULTANT OFF-SITE LANDSCAPE AREA, AND PROTECTED.

J. CONFIRM IRRGATION CONNECTION PSI IS ADEQUATE PRIOR TO COMMENCING WORK. SHOULD THE PSI BE LESS THAN THIS, NOTIFY THE ARCHITECT IMMEDIATELY. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.

K. CONTRACTOR SHALL NOT INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT SITE CONDITIONS INHIBIT THE SPRINKLER SYSTEM FROM PERFORMING AS INTENDED. IN THE EVENT THAT THE ARCHITECT IS NOT NOTIFIED IN WRITING THAT SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.

L. DRAWINGS ARE CONCEPTUAL IN NATURE. ACTUAL PLACEMENT OF SPRAY HEADS, VALVES, LINES, ETC. WILL VARY. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND COVER/SHRUB AREAS, 6" TO 12" AWAY FROM EDGE OF PAVEMENT FOR EASE OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING A WORKING SYSTEM THAT MAINTAINS PROPER COVERAGE, EVEN IF MINOR ADJUSTMENTS ARE NECESSARY. NO IRRIGATION WATER IS TO SPRAY ON BUILDING WALLS, SIGNS, OR SIDEWALKS.

M. IF CIRCUIT PIPE SIZES ARE NOT SHOWN ON THE DRAWING, THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO SIZE CIRCUIT PIPING. WATER VELOCITY IN ALL PIPES SHALL NOT EXCEED FIVE FEET PER SECOND. MINIMUM PIPE SIZE TO BE 1". POLYETHYLENE PIPE SHALL NOT BE USED.

N. CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVES UNDER ALL ROADWAY, PARKING, AND WALKWAY SURFACES. EXTEND 6" MINIMUM BEYOND SURFACE EDGE. IDENTIFY ENDPOINTS OF SLEEVING. REPORT ALL PROPOSED CHANGES IN SYSTEM DESIGN TO THE ARCHITECT PRIOR TO INSTALLATION.

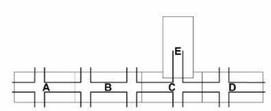
O. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL EXISTING IRRIGATION COMPONENTS DAMAGED AS A RESULT OF NEW CONSTRUCTION, INCLUDING ADJACENT PROPERTIES. RE: CIVIL PLANS, SITE ELECTRICAL PLANS. REPAIR INCLUDES BUT IS NOT LIMITED TO PIPING; VALVES; HEADS; DRIP COMPONENTS; CONTROL WIRES AND EQUIPMENT; AND SLEEVES.

TREE LEGEND

SYM	COMMON NAME BOTANICAL NAME	PLANTING SIZE
TREES		
	Swamp White Oak Quercus bicolor 'American Dream'	2.5" CAL B&B Class III
	Skyline Honeylocust Gleditsia triacanthos inermis 'Skyline'	2.5" CAL B&B Class II
	Princeton Elm Ulmus 'Princeton'	2.5" CAL B&B Class III
	Kentucky Coffeetree Gymnocladus dioicus 'Espresso'	2.5" CAL B&B Class III
	State Street Maple Acer miyabei 'Morton'	2.5" CAL B&B Class II
	American Sweetgum Liquidambar styraciflua	2.5" CAL B&B Class II
	Red Oak Quercus rubra	2.5" CAL B&B Class III

SYMBOL LEGEND

	SL	PROVIDE AND INSTALL HISTORIC LIGHT. SEE ELECTRICAL DRAWINGS.
	ST	INSTALL TREE PER DETAIL 3, SHT L2.2. SEE TREE SCHEDULE, THIS SHT.
	TW	4'X8' TREE WELL. PROVIDE AND INSTALL GRATE & FRAME, AND ROOT BARRIER RE: DETAIL 1, SHT L2.2 AND SPEC SECTION 32 33 00.
	BR	PROVIDE AND INSTALL STANDARD BIKE RACK LOOP. SURFACE MOUNT. POWERCOAT RAL-6009 PER DETAIL 4, SHT L2.2.
	PP	PRE-CAST CONCRETE PLANTER. PLANTED BY DBA. SEET DTL 5, SHT L2.2 & SPECS.
	BF	IRRIGATION POINT OF CONNECTION TO NEW METER. PROVIDE AND INSTALL AN RP BACKFLOW PREVENTER IN STRONGBOX ENCLOSURE, DRIP OR LAWN CONTROL ZONE, AND IRRIGATION CONTROLLER IN TRAFFIC RATED VALVE BOX. SEE NOTES SHT L2.1.
		SODDED LAWN PER DIVISION 32 – EXTERIOR IMPROVEMENTS



KEY MAP

CSHQA
Approval Stamp

FDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

• DETAIL TITLE •

Revisions:

• SIGNATURES •

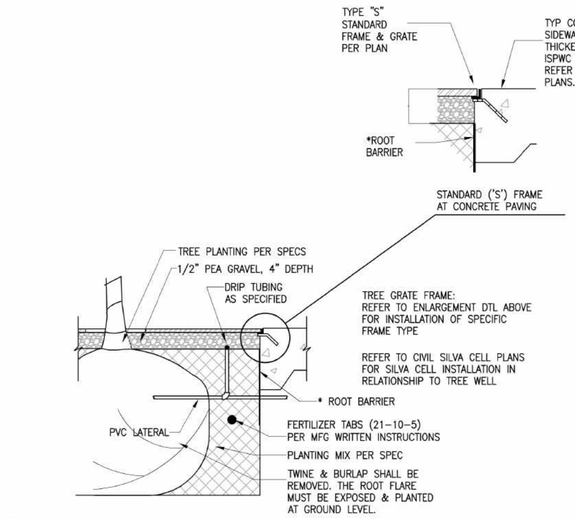
Design By: K.Hemly Date: 12/08 | Drawn By: CSHQA Date: 12/08 | Survey By: CIVIL SURVEY Date: 05/23

CAPITAL CITY DEVELOPMENT CORP
Capital City Development Corp
.121 N. 9th Street Suite 501, Boise, Idaho, 83702.
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet L2.1



* INSTALL DEEPROOT ROOT BARRIER (OR APPROVED EQUAL) THAT EXTENDS 18" BELOW THE SUB GRADE ON THE SIDEWALK SIDE AND 24" BELOW THE SUB GRADE ON THE CURB SIDE. SEE SILVA CELL DETAIL ON CIVIL PLANS FOR ROOT BARRIER DEPTH.

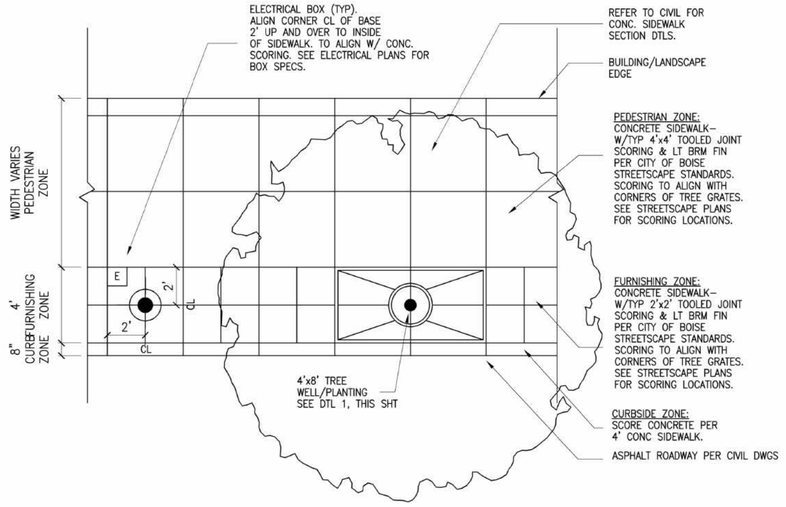
INSTALL xxxxxx (xx) TOTAL CAST-IN-PLACE 4'x8' TREE GRATES AND FRAMES. TO BE "KIVA" CAST IRON, NATURAL RAW FINISH BY URBAN ACCESSORIES. CONTACT: NORTHWEST RECREATION (503-248-7770).

FRAMES: xxxxx (xx) - TYPE :S: STANDARD CONCRETE FRAME (ALL 4 SIDES)

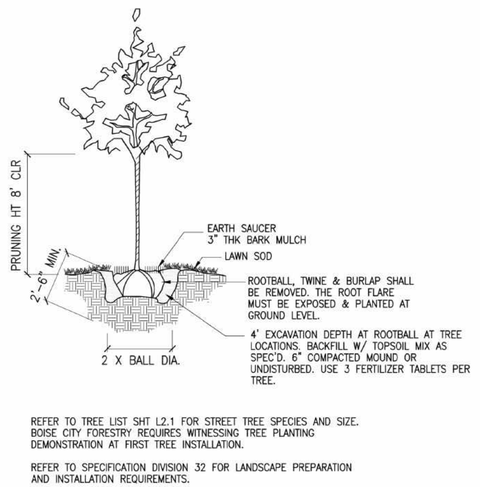
REFER TO TREE LIST SHT L2.1 FOR STREET TREE SPECIES AND SIZE. BOISE CITY FORESTRY REQUIRES WITNESSING TREE PLANTING DEMONSTRATION AT FIRST TREE INSTALLATION.

REFER TO SPECIFICATION DIVISION 32 FOR LANDSCAPE PREPARATION AND INSTALLATION REQUIREMENTS.

1 TREE WELL SECTION
SCALE: NOT TO SCALE



2 CONCRETE STREETSCAPE PAVING PATTERN
NOT TO SCALE



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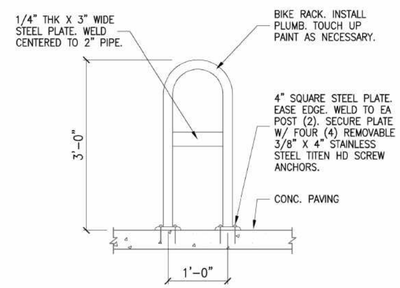
REFER TO SPECIFICATION DIVISION 32 FOR LANDSCAPE PREPARATION AND INSTALLATION REQUIREMENTS.

3 TREE PLANTING IN LAWN
NOT TO SCALE

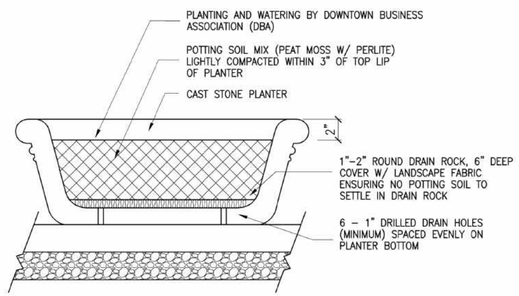


SURFACE MOUNT

BIKE RACKS O BE "SINGLE BEND" BIKE RACK OR APPROVED EQUAL. 2 BIKE CAPACITY. 2" ROUND SCHEDULE 40 STEEL PIPE. BEND TO FORM & DIMENSIONS AS SHOWN. FINISH: POWDERCOAT RAL-6009. CONCRETE SURFACE MOUNT. 36" SPACING BETWEEN BIKE RAKS TYP. SEE SPEC SECTION 32 33 00 - SITE FURNISHINGS.

LOCATIONS: AS SHOWN ON PLAN.

4 BIKE RACK
NOT TO SCALE

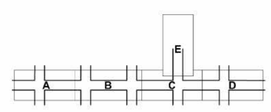


BOISE CITY STANDARD 3-FOOT ROUND x 17-INCH HEIGHT CAST STONE PLANTER. BY IDAHO PRECAST CONCRETE, NAMPA, ID (208) 461-6300. OR EQUIVALENT AS APPROVED BY BOISE CITY. SEE SPEC SECTION 32 33 00 - SITE FURNISHINGS.

REUSE EXISTING PLANTERS REMOVED FROM SITE FOR DEMO, IF POSSIBLE.

LOCATIONS: AS SHOWN ON PLAN.

5 MOVABLE PLANTER
NOT TO SCALE



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Revisions:

• SIGNATURES •

Design By: K.Hemly Date: 12/08 | Drawn By: CSHQA Date: 12/08 | Survey By: CIVIL SURVEY Date: 05/23

• DETAIL TITLE •

ELECTRICAL LEGEND - LIGHTING

REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.

- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR.
- ROUND LIGHT FIXTURE
- ROUND EMERGENCY LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED EMERGENCY LIGHT FIXTURE.
- POLE LIGHT 1 HEAD WITH POLE
- TC — TIME CLOCK
- PC — PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
- OS — OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED
- D — LED DRIVER
- EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
- EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
- XXX — INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
- EXTERIOR WALL PACK
- EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BALLAST CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

- S — SWITCH, TYPE AS INDICATED. +46"AFF
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - K KEYED
  - P PILOT LIGHT
  - D DIMMER
  - HP HORSEPOWER RATED
  - TO THERMAL OVERLOAD
  - LV LOW VOLTAGE
  - OS OCCUPANCY SENSOR
  - OR LOW VOLTAGE, MOMENTARY OVERRIDE
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S_{DS} — DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT SINGLE CONVENIENCE OUTLET
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- FOURPLEX CONVENIENCE OUTLET. +18"AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- CONNECTION POINT TO EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- T — TRANSFORMER
- PANELBOARD. SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED

ONE LINE

- DELTA WYE TRANSFORMER UNO
- # / PANEL NAME / VOLTAGE / PHASE — PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- ##A / #P — CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ##A — FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- ##A / #P — INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- ##A / #P — FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- GROUND
- ST — SHUNT TRIP COIL
- M — MOTOR
- 100A 3P — DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
- OVERHEAD SERVICE DROP
- M — METER AND BASE
- N — NEUTRAL
- T — TRANSFORMER
- PAD MOUNT TRANSFORMER

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC AFF	6" ABOVE BACKSPLASH ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC AT AWG	AMPS INTERRUPTING CAPACITY AMP TRIP AMERICAN WIRE GAUGE
C C CB	CEILING MOUNTED CONDUIT CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO CT CTL	CONDUIT ONLY, PROVIDE PULL-LINE CURRENT TRANSFORMER CONTROL
(D) DEMO DET	DEMOLITION DEMOLITION DETAIL
E (E) EC	EMERGENCY EXISTING ELECTRICAL CONTRACTOR
F (F)	FUSE FUTURE
G/GND GFCI GFI	GROUND GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER
HH HID	HAND HOLE HIGH INTENSITY DISCHARGE
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA KVA KW	KILOAMP KILO VOLT-AMP KILOWATT
MB MBR MLO MTG	MAIN BREAKER MAIN CIRCUIT BREAKER MAIN LUGS ONLY MOUNTING
N (N) NC NEC NIC NO NTS	NEUTRAL NEW NORMALLY CLOSED NATIONAL ELECTRICAL CODE NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE
OH	OVERHEAD
P PC PVC PWR	POLES PHOTO-CONTROL POLYVINYL CHLORIDE POWER
RE: REC (R)	REFERENCE RECEPTACLE RELOCATED
SF	SQUARE FEET
(TYP.)	TYPICAL
UG UG S U.N.O.	UNDERGROUND UNDERGROUND SECONDARY BY IDAHO POWER CO. UNLESS NOTED OTHERWISE
V VA	VOLT VOLT-AMPERE
W WP	WATT WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
PROVIDED/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

DEMO:

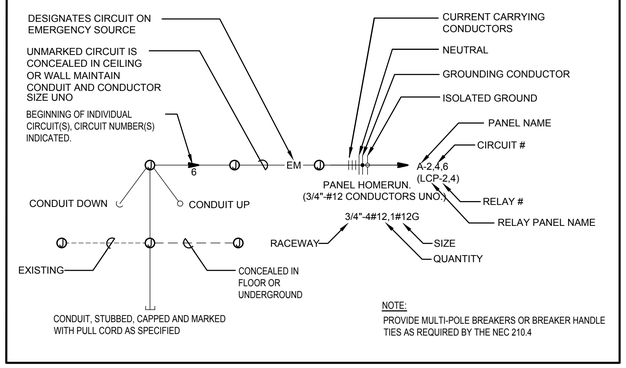
G. THE ELECTRICAL DEMOLITION DRAWING(S) PROVIDED ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND MAY NOT INDICATE ALL DEVICES OR THE FULL EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS THAT WILL BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.

H. ALL ELECTRICAL DEVICES AND WALLS INDICATED ON THE ELECTRICAL DEMOLITION DRAWING(S) ARE TO REMAIN UNLESS OTHERWISE NOTED.

Boise City Street Light Plan Review Requirements

1. CONTRACTORS INSTALLING LIGHTING WILL BE REQUIRED TO CONTACT BOISE CITY PUBLIC WORKS INSPECTION SECTION 48 HOURS PRIOR TO SCHEDULE THE PRELIMINARY INSPECTION PRIOR TO PLACING CONCRETE OR COVERING CONDUITS. IN ADDITION, THE ELECTRICAL CONTRACTOR IS REQUIRED TO CALL 24 HOURS IN ADVANCE TO SCHEDULE A FINAL INSPECTION BY THE BOISE CITY PUBLIC WORKS INSPECTION SECTION AFTER ALL WORK HAS BEEN COMPLETED. ELECTRICAL CONTRACTOR MUST BE PRESENT AT FINAL INSPECTION (CALL 388-4725 TO SCHEDULE AN INSPECTION). FOR METERED SERVICES, AN ADDITIONAL INSPECTION IS REQUIRED BY THE ELECTRICAL INSPECTOR HAVING JURISDICTION AT THE PROJECTS LOCATION; BOISE CITY.
2. DEVELOPER OR ELECTRICAL CONTRACTOR IS REQUIRED UPON COMPLETION OF ALL FINAL INSPECTIONS TO NOTIFY BOISE CITY PUBLIC WORKS STREET LIGHTING SECTION AT 208-388-4719 WHEN READY FOR POWER ENERGIZING TO NEWLY INSTALLED STREET LIGHTS WITH IN THE CITY LIMITS. PROVIDE THE CONTRACTOR'S NAME AND SUBDIVISION NAME.
3. ALL STREET LIGHTS SHALL BE INSTALLED PER ISPWC, NEC CODES, ACHD CODES FOR WORKING WITH IN THE PUBLIC RIGHT-OF-WAY, AND BOISE CITY PUBLIC WORKS STREET LIGHT STANDARD REVISIONS TO THE ISPWC.
4. DEVELOPER SHALL NOT CONNECT, OR ALLOW ANY SUBCONTRACTOR TO CONNECT ANY IRRIGATION TIMERS, DECORATIVE LIGHTING, ENTRANCE LIGHTING, OR OUTLETS OR OTHER ELECTRICAL DEVICES TO ANY STREET LIGHTING CIRCUITS. ANY AND ALL IRRIGATION TIMERS, DECORATIVE LIGHTING, ENTRANCE LIGHTING, OR OUTLETS OR OTHER ELECTRICAL DEVICES SHALL BE CONNECTED DIRECTLY TO IDAHO POWER AT AN IDAHO POWER APPROVED LOCATION VIA A SEPARATE CONDUIT SYSTEM.
5. UNDERGROUND WIRE SHALL BE #6 COPPER, AWG, THWN, 600 VOLT INSULATED (NO ALUMINUM WIRE.)
6. ALL ELECTRICAL CONDUITS SHALL BE SCHEDULE 40, PVC, UL LABELED.
7. A LOCATING WIRE IS REQUIRED IN ALL EMPTY PVC ELECTRICAL CONDUITS.
8. FOR SERVICE CABINET INSTALLATIONS, AN ELECTRICAL PERMIT IS REQURIED FROM BOISE CITY BUILDING DEPARTMENT.
9. ALL NEW UNDERGROUND CONDUIT FOR ALL STREET LIGHTING BETWEEN PULL BOXES SHALL BE A MINIMUM OF (2)2" CONDUITS. PROVIDE A MINIMUM (2)1" CONDUITS BETWEEN PULL BOXES AND THE ADJACENT LIGHT POLE. 18" MAX INSTALLATION OFFSET BEHIND BACK OF SIDEWALK. ALL CONDUITS SHOWN ARE NEW.
10. REFER TO HISTORICAL STREET LIGHT POLE DETAILS, METERED UTILITY PEDISTAL DETAIL AND THE BOISE CITY
11. REFER TO SPECIFICATIONS AND STANDARDS ON SHEET EG-2 THROUGH EG-7.

CIRCUITING SYMBOLS



NOTE:
PROVIDE MULTI-POLE BREAKERS OR BREAKER HANDLE TIES AS REQUIRED BY THE NEC 210.4

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgroveps.com

Project No. 23-285

CSHQA
Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08
Drawn By: NJS Date: 12/08
Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

ELECTRICAL COVER SHEET

CAPITAL CITY DEVELOPMENT CORP

Capital City Development Corp • 121 N. 9th Street Suite 501, Boise, Idaho, 83702 • www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street – 16th to 12th Streetscape Improvements

Sheet EG-1

www.cityofboise.org
tmarshall@cityofboise.org
P: 208-608-7526
F: 208-384-3905

JUNCTION BOXES
Effective May 18, 2017

Note: Junction boxes used at the service connections to Idaho Power must not have a metal lid.

SIDEWALK/ROADWAY AREA JUNCTION BOXES WITH STEEL LIDS

Manufacturer	Use Locations	Part Number
Idaho PrecastConcrete	Roadway, Driveway	S-40T ADA
	Sidewalk	S-40T

SIDEWALK AREA JUNCTION BOXES POLYMER CONCRETE MATERIAL
(May be used for service connections to Idaho Power)

Manufacturer	Use Locations	Part Number
Carson Industries	Sidewalks	Type H1324-18
Hubbell Pwr System	Sidewalks	PG1324HA00

LANDSCAPE/GRASS AREA JUNCTION BOXES COMPOSITE MATERIAL
(May be used for service connections to Idaho Power)

Manufacturer	Use Locations	Part Number
Carson Industries	Landscape Area (9" Round)	Carson 910-10-4BE
	Landscape Area (19" x 14")	Carson 1419-12-4BE

WIRE CONNECTORS FOR UNDERGROUND

	Part Number
1 In / 1 Out	NSI ISPBS2/0
2 Port	NSI ISPB2/0-2
3 Port	NSI ISPB2/0-3
4 Port	NSI ISPB2/0-4
1 In / 2 out	NSI ISPB02/0

HOMAC USL 30

www.cityofboise.org
tmarshall@cityofboise.org
P: 208-608-7526
F: 208-384-3905

APPROVED PART NUMBER LISTING FOR CITY OF BOISE STREET LIGHTING
January 2022

The following is an approved part number listing for the City of Boise for public street lighting. All lighting projects within the City of Boise and the City of Boise Area of Impact shall use these products.

Part numbers listed for fixtures have the correct light color and the correct fixture color. Please verify part numbers with the vendors to ensure you are getting what you want to include the correct mounting hardware and color for your application.

Street light requirements including type, wattage, and pole height will be established by Boise Street Light staff.

HISTORICAL POLES and LIGHTS

Includes pole, capitol adapter (if applicable), Weatherproof duplex GFCI outlet with TAYMAC bubble cover cat # MX5280S or equal, breakaway banner arm, lower eyelet 51" below banner arm, (4) stainless steel clips with (4) stainless steel screws, and custom hand hole cover with Boise City logo. Historic light poles are exempt from the LED wattage labeling requirement. Light pole and all components shall be RAL 6009 color. **Ten-year fixture warranty required.** All poles will be elevated more than 1" from the ground and they will be grouted.

HISTORIC LIGHT POLES, FIXTURES, and GLOBES

Manufacturer	Holophane	Complete Pole *	Part Number
		Holophane LED Globe, Fixture, Modern base *	GVD3 P20 50K AS M RAL6009 5 NNU RFD256665 5245 Lumens 39 watts 134 lpw
		Pole*	HB120 12-6 L/ABP07CLD107811-RXXXY SXXXY EXXXY RFD236759
		Banner Arm*	BAB 25B4 DGRG RFD236759
		Eyebolt*	EBBDGRG RFD236759
		Receptacle*	FGIUS-SDGRG RFD236759
		Holophane Globe only	Granville GV5N Glass

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P: 208-608-7526
F: 208-384-3905

APPROVED PART NUMBER LISTING FOR CITY OF BOISE STREET LIGHTING
Effective 7/1/2021

The following is an approved part number listing for the City of Boise for public street lighting. All lighting projects within the City of Boise and the City of Boise Area of Impact shall use these products or an approved equal. Contact the City of Boise Public Works Street Light Office at (208) 608-7526 to seek approval for products not listed below (approved equal).

Part numbers listed for fixtures are basic and may not indicate the correct color or other features you need. Please verify part numbers with the vendors to ensure you are getting what you want to include the correct mounting hardware and color for your application.

Street light requirements including type, wattage, and pole height will be established by Boise Street Light staff.

STANDARD LIGHT FIXTURES – COBRA HEAD ARTERIAL AND COLLECTOR STREETS

All lighting to meet ANSI C136.15-2011 For Field Wattage Identification and must have a label attached from an OSHA accredited Nationally Recognized Testing Lab.

The preferred photo cell is the DTL 124-1.5 STJ
All light fixtures shall be **warrantied for 10 year period** from the date of installation

Class "B" – 9,500 to 11,500 Lumens 130 LPW minimum

	AUTOBAHN Series ATBO	10,260 lm 70 w 148 lpw	ATBO P203 MVOLT R3 BK NL
	AUTOBAHN Series ATBM	11302 lm 81 w 140 lpw	ATBM P10 MVOLT R3 4B BK NL
	Cooper Streetworks Arch Medium	10367 lm 63w 164 lpw	ARCH-M-PA2-60-740-U-T3-BK-20K-PR- 10X
	Cooper Streetworks NVN NAVION	9699 lm 66 w 147 lpw	NVN SA2A 740 U T3 BK 20K PR 10X
	Leotek Green Cobra Midsize	10525 lm 65 w 162 lpw	GCM1 60J MV 40K 3R BK 105 WL LSSP2

www.cityofboise.org
tmarshall@cityofboise.org
P: 208-608-7526
F: 208-384-3905

ROADWAY LIGHT POLES

Description

30 foot black tapered steel pole base mount with a 15 foot minimum mast arm with a class "B" black fixture. Pole height is determined by overall fixture mounting height.

Foundation type "A" with minimum 1" J-bolts that are 36" in length. Base requirements as per drawing ISPWC SD-1109.

The installation shall meet the requirements of ISPWC drawings SD-1109, BC SD-1117, and BC SD-1127.

Application

These light poles are for Arterials, Collector, and Local roads outside of a subdivision.

Approved Poles required by 01/01/2021

Valmont
DS32-R800A286-15S- FP- BK-SFBC-AB

KW
RTSE30-8.0-11-BLK-115PL-BC

Nova Pole
408-68-SRTA01-F3

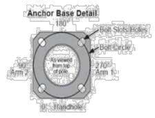
OPTIONAL ROADWAY LIGHT POLE

Description
30 to 40-foot black tapered steel pole with a class "B" black fixture.

Foundation type "B" with J-bolts that meet manufactures specifications in size and length. Base requirements as per drawing ISPWC SD-1109 usually "B" for 30 ft or "C" for 40 ft.

The installation shall meet the requirements of ISPWC drawings SD-1109, BC SD-1117, and BC SD-1127.

Application
Under power lines or where other obstacles may get in the way. Minimum NEC overhead clearances apply and is the responsibility of the contractor.
Manufactures of these type poles are KW or Valmont.
These light poles are for arterials, collector, and local roads outside of a subdivision.



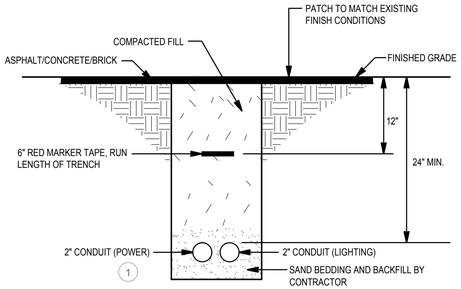
Valmont 30' Poles
Pole Type P-302
P302-BOISE-FP-BLACK-AB-FBCS-HH
(height after first bend 19'4")

Pole Type P-307
P307-BOISE-FP-BLACK-AB-FBCS-HH
(height after first bend 12'10")

KW 30' Poles
Pole Type P-302
RTDP30-6.84-11-BLK-113DA SBP SBC
(height after first bend at 19'5")

Pole Type P-307
RTDP30-6.84-11-BLK-113.8DA SBP SBC
(height after first bend at 13'3")

Nova Pole
408-71-STRA01-F3



DETAIL NOTES:

1. IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS. PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.

1 SITE TRENCHING DETAIL
NTS

LIGHTING FIXTURE SCHEDULE (23-285)

TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
PL1	EXTERIOR POLE FIXTURE, HISTORIC	POLE MOUNTED +12'-0"	LED 5000LM 40K	56	SEE APPROVED PART NUMBER LISTING FOR CITY OF BOISE STREET LIGHTING AS SHOWN IN THE PLANS FOR HISTORIC POLES AND LIGHTS		
PL2	EXTERIOR POLE FIXTURE, ROADWAY LIGHT 30' POLE WITH 15' MAST ARM COBRA HEAD COLLECTOR STREET HEAD	POLE MOUNTED +30'-0"	LED 10260LM 40K	70W	SEE APPROVED PART NUMBER LISTING FOR CITY OF BOISE STREET LIGHTING AS SHOWN IN THE PLANS FOR ATERIAL AND COLLECTOR STREET POLES AND LIGHTS		

LIGHTING FIXTURE SCHEDULE NOTES:

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
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Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08
Drawn By: NJS Date: 12/08
Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

APPROVED EQUIPMENT / DETAILS

SECTION 16010 - ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Provisions of this Section shall apply to all Sections of Division 16.

1.2 SCOPE OF WORK

A. Furnish and install all materials and equipment and provide all labor required and necessary to complete the work shown on the drawings and/or specified in all Sections of Division 16 and all other work and miscellaneous items, not specifically mentioned, but reasonably inferred for a complete installation, including all accessories required for testing the system. It is the intent of the drawings and specifications that all systems be complete and ready for operation.

1.3 CODE COMPLIANCE

A. All work and materials shall comply with the latest rules, codes and regulations, including, but not limited to, the following:

1.Occupational Safety and Health Act Standards (OSHA)

2.NFPA #70 - National Electric Code (NEC)

3.ADA Standards - Americans with Disabilities Act

4.ANSI/EEE C-2 - National Electrical Safety Code

5.NECA - Standard of Installation

6.International Building Code

7.International Fire Code

8.International Energy Conservation Code

9.NFPA #72 - Fire Code

10.NFPA #101 - Life Safety Code

11.All other applicable Federal, State and local laws and regulations.

B. Work to be executed and inspected in accordance with local codes and ordinances. Permits, fees or charges for inspection or other services shall be paid for by the contractor. Local codes and ordinances are to be considered as minimum requirements and must be properly executed without expense to the owner; but do not relieve the contractor from work shown that exceeds minimum requirements.

1.4 CONDITIONS AT SITE

A. Visit to site is recommended of all bidders prior to submission of bid. All will be held to have familiarized themselves with all discernible conditions and no extra payment will be allowed for work required because of these conditions, whether specifically mentioned or not.

B. Lines of other service that are damaged as a result of this work shall be promptly repaired at no expense to the owner to the complete satisfaction of the owner.

1.5 DRAWINGS AND SPECIFICATIONS

A. All drawings and all specifications shall be considered as a whole and work of this Division shown anywhere therein shall be furnished under this Division.

B. Drawings are diagrammatic and indicate the general arrangement of equipment and wiring. Most direct routing of conduits and wiring is not assured. Exact requirements shall be governed by architectural, structural and mechanical conditions of the job. Consult all other drawings in preparation of the bid. Extra lengths of wiring or addition of pull or junction boxes, etc., necessitated by such conditions shall be included in the bid. Check all information and report any apparent discrepancies before submitting bid.

C. Change to location, type, function, brand name, finish, etc., shall not be made without permission of engineer.

D. Some equipment is specifically designated on the drawings. It is not the intent to sole source any item unless explicitly stated. Items have been specified based upon design requirements. All bidders are encouraged to submit products for approval. Prior approval must be obtained as required by these contract documents. Bids submitted with non-approved items will be considered invalid and bidders will be held to provide approved materials at no additional cost to the owner. Submittals received by the engineer after award of contract on non-approved equipment will not be reviewed nor will they be returned.

E. Where conflicting direction is given within the specifications and drawings, the contractor shall include the most expensive option in the bid.

1.6 SAFETY AND INDEMNITY

A. Safety: The contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

B. No act, service, drawing review or construction review by the owner is intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.

1.7 CONSTRUCTION OBSERVATION BY THE ENGINEER

A. Prior to covering: any major portion of the materials installed under this section, notify the engineer so that an observation can be made. Notification shall be made at least three (3) working days in advance of the date the items will be covered.

1.8 PROJECT COMPLETION

A. Upon completion of all work and operational checks on all systems, the contractor shall request that a final construction observation be performed.

B. The engineer shall compile a punch list of items to be completed or corrected. The contractor shall notify the engineer upon completion of the items.

1.9 GUARANTEE

A. All work under this section shall be guaranteed in writing to be free of defective work, materials, or parts for a period of one (1) year, except lamps which shall be guaranteed for ninety (90) days, after final acceptance of the work under this contract or the period indicated under the Division 1 specifications whichever is longer.

B. Repair, revision or replacement of any and all defects, failure or inoperativeness shall be done by the contractor at no cost to the owner.

PART 2 - PRODUCTS

2.1 MATERIAL APPROVAL

A. The design, manufacturer and testing of electrical equipment and materials shall conform to or exceed latest applicable NEMA, IEEE or ANSI standards.

B. All materials must be new, unless noted otherwise, and UL listed. Materials that are not covered by UL testing standards shall be tested and approved by an independent testing laboratory or a governmental agency, which laboratory shall be acceptable to the owner and code enforcing agency.

2.2 SHOP DRAWINGS AND MATERIALS LIST

A. Submit shop drawings and materials lists as specified for review. Seven (7) copies, unless noted otherwise under Division 1, of submittals shall be presented to the architect/engineer.

2.3 OPERATION AND MAINTENANCE MANUALS

A. Submit four (4) sets, unless noted otherwise under Division 1, of the Operation and Maintenance Manuals of all Division 16 equipment to architect/engineer.

2.4 RECORD DRAWINGS

A. Submit record drawings to owner.

2.5 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and handle materials in a manner to prevent damage.

B. Protect equipment from weather and dampness.

PART 3 - EXECUTION

3.1 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS

A. Only quality workmanship will be accepted. Haphazard or poor installation practice will be cause for rejection of work.

B. Provide experienced foreman with a minimum of three years experience working on this type of building placed in charge of this work at all times.

3.2 COORDINATION

A. Coordinate work with other trades to avoid conflict and to provide correct rough-in and connection for equipment furnished under trades that require electrical connections. Inform contractors of other trades of the required access to and clearances around electrical equipment to maintain serviceability and code compliance.

B. Verify equipment dimensions and requirements with provisions specified under this Section. Check actual job conditions before fabricating work. Report necessary changes in time to prevent needless work. Changes or additions subject to additional compensation, which are made without the authorization of the owner, shall be at contractor's risk and expense.

C. Contractors installing lighting will be required to contact Boise City Public Works Inspection Section **48 hours** prior to the start of construction to receive a set of approved construction plans and to schedule the preliminary inspection prior to placing concrete or coving conduits. In addition, the electrical contractor is required to call **24 hours** in advance to schedule a final inspection by the Boise City Public Works Inspection Section after all work has been completed. Electrical Contractor must be present at final inspection. (To schedule Public Works inspection, phone 388-4725.

D. Developer or electrical contractor is required upon completion of all final inspections to notify Boise City Public Works Street Lighting Section (388-4719) when ready for power energizing to newly installed street lights. Provide the contractor's name, Subdivision name.

E. For design information or questions, contact Mike Hedge (208) 388-4719. All street lights shall be installed per NEC, ACHD codes for working within the public right-of-way, and Boise City Public Works street light standards.

3.3 MANUFACTURER'S INSTRUCTIONS

A. All installations are to be made in accordance with manufacturer's recommendations. A copy of such recommendations shall at all times be kept in the job superintendent's office and shall be available to the engineer.

B. Follow manufacturer's instructions where they cover points not specifically indicated on drawings and specifications. If they are in conflict with the drawings and specifications obtain clarification from the engineer before starting work.

3.4 QUALITY ASSURANCE

A. The contractor shall insure that all workmanship, all materials employed, all required equipment and the manner and method of installation conforms to accepted construction and engineering practices, and that each piece of equipment is in satisfactory working condition to satisfactorily perform its functional operation.

B. Provide quality assurance tests and operational check on all components of the electrical distribution system, all lighting fixtures, and special systems.

3.5 CUTTING AND PATCHING

A. Perform all cutting and fittings required for work of this section in rough construction of the building.

B. All patching of finished construction of building shall be performed under the sections of specifications covering these materials.

C. No joists, beams, girders or columns shall be cut by any contractor without obtaining written permission from the architect/engineer.

END OF SECTION 16010

SECTION 16060 - GROUNDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including Fixed Price Construction Contract and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.

1.3 SYSTEM DESCRIPTION

A. Ground the electrical service system neutral at service entrance equipment to concrete encased electrode, metal underground water pipe, and effectively grounded metal frame of building.

B. Ground each separately-derived system neutral to nearest effectively grounded metal structural frame of building or point of service entrance ground.

C. Bond together system neutrals, service equipment enclosures, exposed non-current carrying metal parts of electrical equipment, metal raceway systems, grounding conductors in raceways and cables, receptacle ground connectors, and plumbing systems.

PART 2 - PRODUCTS

2.1 GROUNDING CONDUCTORS

A. For insulated conductors, comply with Section 16120 - Conductors and Cables.

B. Material: Copper.

C. Equipment Grounding Conductors: Insulated with green-colored insulation. Where green insulation is not available, on larger sizes, black insulation shall be used and suitably identified with green tape at each junction box or device enclosure.

D. Underground Conductors: Bare, tinned, stranded, unless otherwise indicated.

E. Bare Copper Conductors: Medium hard drawn copper conductor, stranded, sized as shown on the drawings.

F. Hardware: Bolts, nuts and washers shall be bronze, cadmium plated steel or other non-corrosive material, approved for the purpose.

G. Grounding Bus: Bare, annealed copper bars of rectangular cross section, with insulators.

2.2 CONNECTOR PRODUCTS

A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.

B. Bolted Connectors: Bolted-pressure-type connectors, or compression type.

C. Welded Connectors: Exothermic-welded type, in kit form, and selected per manufacturer's written instructions.

D. Below grade compression fittings: Thomas & Betts, Series 52000, 53000, and 54000 or equivalent.

E. Use connector and sealant approved for purpose on all below grade clamp or compression type connections.

2.3 GROUNDING ELECTRODES

A. Ground Rods: Copper-clad steel, 5/8 inch diameter, minimum length 8 feet.

PART 3 - EXECUTION

3.1 APPLICATION

A. Use only copper conductors for both insulated and bare grounding conductors in direct contact with earth, concrete, masonry, crushed stone, and similar materials.

B. In raceways, use insulated equipment grounding conductors.

C. Exothermic-Welded Connections: Use for connections to structural steel and for underground connections.

D. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.

F. Underground Grounding Conductors: Use copper conductor, No. 2/0 AWG minimum. Bury at least 24 inches below grade.

3.2 EQUIPMENT GROUNDING CONDUCTORS

A. Comply with NEC Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NEC are indicated.

B. Install equipment grounding conductors in all feeders and circuits.

C. Install insulated equipment grounding conductor with circuit conductors for the following items, in addition to those required by NEC:

1.Feeders and branch circuits.

2.Lighting circuits.

3.Receptacle circuits.

D. Nonmetallic Raceways: Install an equipment grounding conductor in nonmetallic raceways bonded to outlet or equipment, sized per Section 250 of the NEC.

H. Provide green insulated ground conductor to exterior post light standards.

3.3INSTALLATION

A. Ground Rods: Where indicated, install at least three rods spaced at least one-rod length from each other and located at least the same distance from other grounding electrodes.

1.Drive ground rods until tops are 2 inches below finished floor or final grade, unless otherwise indicated.

2.Interconnect ground rods with grounding electrode conductors. Use exothermic welds, unless otherwise indicated. Make connections without exposing steel or damaging copper coating.

B. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

C. Bonding Straps and Jumpers: Install so vibration by equipment mounted on vibration isolation hangers and supports is not transmitted to rigidly mounted equipment. Use exothermic-welded connectors for outdoor locations, unless a discernect-type connection is required; then, use a bolted clamp. Bond straps directly to the basic structure taking care not to penetrate any adjacent parts. Install straps only in locations accessible for maintenance.

D. Metal Water Service Pipe: Provide insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes by grounding clamp connectors. Where a dielectric main water fitting is installed, connect grounding conductor to street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.

3.4 CONNECTIONS

A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.

1.Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer to order of galvanic series.

2.Make connections with clean, bare metal at points of contact.

3.Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.

4.Make aluminum-to-galvanized steel connections with tin-plated copper jumpers and mechanical clamps.

5.Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

B. Exothermic-Welded Connections: Comply with manufacturer's written instructions. Welds that are puffed up or that show convex surfaces indicating improper cleaning are not acceptable.

C. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.

D. Noncontact Metal Raceway Terminations: If metallic raceways terminate at metal housings without mechanical and electrical connection to housing, terminate each conduit with a grounding bushing. Connect grounding bushings with a bare grounding conductor to grounding bus or terminal in housing. Bond electrically noncontinuous conduits at entrances and exits with grounding bushings and bare grounding conductors, unless otherwise indicated.

E. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values.

F. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.

G. Moisture Protection: If insulated grounding conductors are connected to ground rods or grounding buses, insulate entire area of connection and seal against moisture penetration of insulation and cable.

3.5 SYSTEM NEUTRAL GROUND

A. Ground the neutral conductor of each transformer or generator to limit the maximum potential above ground due to normal operating voltage and limit the voltage level due to abnormal conditions.

B. Ground generators or transformers with secondary voltage 600 volt or less as follows:

1.3 phase, 4 wire Wye connected: ground neutral point

C. For transformers 75 kVA or smaller with primary voltage 480 volt or less the primary equipment ground conductor may be used for grounding the secondary neutral provided it is adequately sized in accordance with NEC system ground conductor size.

3.6 EQUIPMENT GROUND

A. Ground non-current carrying metal parts of electrical equipment enclosures, frames, conductor raceways or cable trays to provide a low impedance path for line-to-ground fault current and to bond all non-current carrying metal parts together. Install a grounding conductor in each raceway system. Equipment grounding conductor shall be electrically and mechanically continuous from the electrical circuit source to the equipment to be grounded. Size grounding conductors per NEC 250 unless otherwise shown on the drawings.

B. Install metal raceway couplings, fittings, and terminations secure and tight to ensure good grounding continuity. Provide grounding conductor sized per NEC through all raceway and conduit systems.

C. Lighting fixtures shall be securely connected to equipment grounding conductors. Outdoor lighting standards shall have a factory installed ground lug for terminating the grounding conductor.

D. Motors shall be connected to equipment ground conductors with a bolted solderless lug connection on the metal frame.

3.7 FIELD QUALITY CONTROL

A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

B. Test ground system per Section 16040.

END OF SECTION 16060

SECTION 16113 - UNDER SLAB AND UNDERGROUND ELECTRICAL WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes under slab conduits and related electrical work.

PART 2 - PRODUCTS

2.1 CONDUIT

A. All shall be provided with fittings and accessories approved for the purpose. Refer to Section 16130.

2.2 BARE COPPER GROUND CONDUCTOR

A. Medium hard drawn copper conductor, # 4/0 AWG stranded (unless otherwise noted).

PART 3 - EXECUTION

3.1 GENERAL

A. Electrical system layouts indicated on the drawings are generally diagrammatic, but shall be followed as closely as actual construction and work of other trades will permit.

3.2 CONDUIT INSTALLATION

A. Plastic conduit shall be installed on 2 inch sand base and covered by 2 inch sand back fill. Multiple runs shall maintain 3 inch minimum separation between runs. Plastic conduit shall not be installed in rock base.

B. Underground conduit entering building shall be provided with one 10 foot section of rigid steel conduit at point of penetration of foundation, footing or basement wall, with approximately equal lengths inside and outside building line. Ream the smaller inside diameter conduit smooth to prevent conductor damage.

C. Stagger conduit coupling by a minimum of 12 inches. All risers to grade shall be rigid steel.

D. All rigid steel conduits shall be encased in 3 inch minimum concrete envelope.

E. After completion of concrete encased duct bank, a 12 inch mandrel, ¼ inch less in diameter than a conduit, shall be pulled through each conduit.

F. Install 1/8 inch diameter pull line in each underground conduit.

G. Burial depths of conduits shall comply with the NEC (minimum).

H. Provide underground type plastic line markers: permanent, brightly colored, continuously printed plastic tape, intended for direct burial service, not less than 6 inches wide, reading "Caution Buried Electrical Line." Install continuous line markers located directly over buried line at 6 inches above top of conduit, during back filling operation.

3.3 CONCRETE DUCT BANK CONSTRUCTION

A. Provide plastic spacers at maximum 5'-0" centers to maintain 3 inch spacing between conduits.

B. Drive two reinforcing bars to anchor the conduits at 10'-0" on centers to prevent floating during concrete pour.

C. Provide one warning tape (see 3.2.H. above) for each 12 inch width of concrete duct bank.

END OF SECTION 16113

SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

W. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes receptacles, switches, and finish plates.

1.3 DEFINITIONS

A. GFCI: Ground-fault circuit interrupter.

1.4 SUBMITTALS

A. Submit shop drawings and product data.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:

1.Wiring Devices:

a. Bryant Electric, Inc.

b. GE Company; GE Wiring Devices.

c. Hubbell, Inc.; Wiring Devices Div.

d. Leviton Manufacturing Co., Inc.

e. Pass & Seymour/Legrand; Wiring Devices Div.

f. Cooper Wiring Devices

g. Or approved equal.

2.2 RECEPTACLES

B. GFCI Receptacles: Duplex convenience receptacle with integral ground fault current interrupter. White color

2.3 WALL PLATES

A. Single and combination types match corresponding wiring devices.

1.Weatherproof cover plate: While in use, gasketed, cast metal, hinged device covers.

2.Plate-Securing Screws: Metal with head color to match plate finish.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install devices and assemblies plumb and secure.

B. Install wall plates when painting is complete.

E. Arrangement of Devices: Unless otherwise indicated, mount flush, vertically, with height as indicated.

F. Protect devices and assemblies during painting.

G. Install cover plates on switch, receptacle, and blank outlets.

3.2 IDENTIFICATION

A. Receptacles: Identify pedestal and circuit number from which served. Use machine-printed, pressure-sensitive, abrasion-resistant label tape on the outside of the face plate for receptacles and on the inside of the face plate for switches; utilize durable wire markers or tags within all outlet boxes. Labels shall be Brother ½" TZ tape, black ink on clear, extra-strength adhesive tape, with size 18 text or engineer approved equal. Use matching label printer.

3.2 CONNECTIONS

A. Connect wiring device grounding terminal to outlet box with bonding jumper.

B. Connect wiring device grounding terminal to branch-circuit equipment grounding conductor.

C. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values.

3.4 FIELD QUALITY CONTROL

A. Test wiring devices for proper polarity and ground continuity. Check each device to verify operation.

B. Test GFCI operation according to manufacturer's written instructions.

C. Replace damaged or defective components.

3.5 CLEANING

A. Internally clean devices, device outlet boxes, and enclosures. Replace stained or improperly painted wall plates or devices.

END OF SECTION 16140

SECTION 16521 - STREET LIGHTING

PART 1 - GENERAL

1.1 SECTION INCLUDES:

A. Materials and installation of street lights.

1.2 RELATED SECTIONS

A. Section 301 - Trench Excavation.

B. Section 305 - Pipe Bedding.

C. Section 306 - Trench Backfill.

D. Section 307 - Street Cuts and Surface Repair.

E. Section 308 - Boring and Jacking.

F. Section 703 - Cast-in-Place Concrete.

1.3 REFERENCES

A. National Electrical Code (NEC)

B. Idaho State Electrical Code.

C. City and Local Agency Codes.

1.4 SUBMITTALS

A. Submit shop drawings and manufacturers' cut sheets for materials to be installed under this Section.

B. Submit manufacturer's certification that materials meet or exceed specified requirements.

C. Submit manufacturers' installation instructions and maintain copy at the jobsite.

D. Submit warranty for all supplied materials and workmanship for a period of one year from final acceptance. The warranty must state that the products supplied were free of defects and suitable for the uses set forth in the Specifications.

1.5 PROJECT RECORD DOCUMENTS

A. Accurately record locations of constructed street lights and other encountered utilities in relation to existing permanent benchmarks.

B. Provide copy of record documents to owner prior to issuance of substantial completion. Show number and size of all components installed, including field wiring diagrams.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and handle materials in accordance with the manufacturer's recommendations, to prevent shock, damage or excessive exposure to sunlight and weather.

1.7 GENERAL RESTRICTIONS

A. Contact local Utility Company for power location and installation requirements. All connections to a utility company facility shall be done by the utility.

B. No privately owned electrical systems, sprinkler irrigation systems, outlets, or area lighting will be allowed to connect to any public street light systems.

1.8 INSPECTIONS

A. Street light installation inspections will be required for the concrete base reinforcing for poles with concrete basis.

B. Visual confirmation of the backfill compaction around the pole base.

C. The conduit trench installation shall be inspected for the depth of trench and verification of the bedding suitability and placement.

D. The final inspection shall be to verify the pole is installed plumb and that the wiring in the pole and junction boxes conform to these specifications.

PART 2 - MATERIALS

2.1 GENERAL

A. All materials to have Underwriter Laboratories, Inc. seal of approval or meet the requirements of the National Electrical Manufacturer's Association, as appropriate.

B. Conform with the National Electrical Code and meet all local codes and requirements of the connecting utility.

2.2 JUNCTION BOXES

A. Junction boxes in driveways or roadways to be concrete with traffic rated lid.

B. Junction boxes in sidewalks and similar areas are to be concrete with steel lid.

C. Junction boxes in landscaped areas may be plastic or fiberglass.

D. All junction boxes to have a means to secure lid (i.e. bolt).

E. See Attachment A for approved products

2.3 FUSE HOLDERS

A. Insulated fuse holders (installed at the base of each metal or fiberglass pole), one per each 'hot' line.

1.Fuses for Boise City installation shall be fast acting - 100k RMS Amps-600VAC.

2.Fuse Holder and Insulating Boot: In-line, waterproof, SEC Model 1791-DF or SEC Model 1791-SF or approved substitution.

B. Insulated fuse holders (in fused junction box), one per each 'hot' line.

1.Fuses for Boise City installation shall be fast acting - 100k RMS Amps-600VAC.

2.Fuse Holder and Insulating Boot: In-line, waterproof, SEC Model 1791-DF or SEC Model 1791-SF or approved substitution.

2.4 CONDUCTOR

A. Underground wire.

1.Minimum standard for fuse system to power source: No.6 AWG copper, Type THWN - 600 volt, insulated.

2.Wires to be color-coated per NEC Code. Phase tape not acceptable.

B. Overhead Wire.

1.General: No. 6 AWG duplex with an ACSR neutral messenger.

2.Overhead installation only: Aluminum wire equivalent to copper wire will be allowed.

C. Pole wiring.

1.Between power source and the over-current protection source (located in the pole). Minimum No. 6 AWG THWN insulated copper wire.

2.Between over-current protection fuse and luminaire: Minimum No. 10 AWG THWN insulated copper wire.

2.5 CONDUIT

A. Above Ground

1.Galvanized metal conduit: UL approved

2.Schedule 40 PVC conduit: UL approved, 1 inch minimum diameter (ground level to disconnect box), ¾ inch minimum diameter (disconnect box to luminaire).

B. Underground Conduit

1.Schedule 40 PVC conduit: UL approved, 1 inch minimum diameter.

2.Standard manufactured bends of no less than 45 degrees.

3.Locating wire only required for empty (spare) conduit.

CONTINUED ON SHEET EG-4

2.6 PHOTOCELLS

A. Photoelectric (PE) controls to be twist lock type base with a label to mark installed and removed dates.

B. Outdoor Lighting Photoelectric Controls (OLPC) to be of a solid state crystal sensing type with inverted turn-on and turn-off design. Designed to turn-on at 3.0 (FC) 32.3 lux ± 20%, turn-off value will be 60% of the turn-on value (1.8 (FC) 19.4 luxs 20%). Designed to operate in 105 to 285 voltage range. Output control relay to have a 45 second time delay to prevent false turn-off from momentary brightness. Output relay rated at 1800 VA, 15 amps for all HID lamps with a failsafe (fail-on) design. OLPC to have a built-in MOV for lighting and transient/surge protection. OLPC to have secondary zener diodes and transient filters. Circuit board to be properly coated to prevent corrosion. OLPC cover to be made of blue (ANSI color coding of 105-285 voltage range) hi-impact Noryl plastic, UL approved break resistant and flame retarding material. OLPC window to be acrylic with proper UV stabilizers to prevent discoloration. OLPC to conform to all IES street lighting standards and the ANSI C 136. 10 specification for twist lock photo-control devices.

2.7 DISCONNECT BOXES (as required by governing agency)

A. Boxes shall conform to National Electrical Code (NEC), Article 370-15.

B. Overload protective devices allowed under NEC, Article 240.

C. Grounded as allowed in NEC Article 250-81 through Article 250-155.

D. Disconnect boxes are only required for overhead wiring.

2.12 HISTORICAL POLES

A. Historical style metal poles shall be true copies, approved by Boise City, Department of Public Works, of the original Old Boise Historical Pole. The new historical poles shall have the same surface texture and have the same Dark Green or Black Green color finish that matches the existing Historical poles in the Historical Lighting District. Metal poles shall have a powder coat finish in accordance with ASTM B-117.

B. Historical poles for the City of Boise shall be cast aluminum, in style and texture of the original Old Boise Historical Pole. Refer to Attachment A on sheet EG-3, and details on sheet E-9.

C. Color: To match existing poles, approved color mix for Valspar Anti-Rust gloss, oil enamel paint, base #4, #49437: mixture formula; 114-1Y29.44, 101-4Y42.9, 103-4Y14.55. Color designate for Antique is DGRG, for Continental it is RAL 6009.

D. Additional pole requirement for historic lights installed within the Capitol City Development Corporation (CCDC) shall be:

1.Poles shall be supplied with an electrical outlet as shown on details on sheet E-9.

2.Poles shall be supplied with a manufacturer's adaptor for installation of the approved banner arms.

2.14 CONCRETE POLE BASES

A. Concrete to be Class 3000 psi meeting the requirements of Section 703 - Cast-in-Place Concrete.

B. Steel Reinforcement to be deformed bar conforming to Section 702 - Concrete Reinforcement.

C. Pole anchors to be conform to requirements stipulated by pole manufacturer.

D. Base dimensions and construction shall conform to Standard Drawings SD-1109.

2.15 PREFABRICATED BASES

A. Prefabricated bases for historical poles will be allowed with approval of the local agency.

2.16 SERVICE PEDESTAL

A. Constructed of 12 gage zinc coated steel with hood and covers of 14 gauge zinc coated steel.

B. NEMA Type 3R rainproof enclosure with padlock hasp.

C. White powder coat finish in accordance with ASTM B-1117 or as directed by agency.

D. Complies with Caltrans Specification ES-2E.

E. 12 circuit copper bussed interior.

F. Plug-in breaker with each breaker having a minimum 30 amp, 2 pole rating.

G. Vandal-resistant enclosure with side-hinged door and dead front.

H. Factory wiring to be 600 volt rated copper with pressure type terminal required for (No. 8 through No. 2 AWG) wire.

I. Service cabinet rated 120/240 volt in either 100 amp or 200 amp main breaker.

J. Equipped with a test switch to override photo electric control.

K. Cabinet supplied with a pad mount base available for concrete foundation installation.

L. Cabinet supplied with a meter base as recommended by the manufacturer.

M. See attachment A for approved products.

2.17 LIGHT FIXTURES

A. Fixture type and wattage as required by Boise City Public Works. See Attachment A on sheet EG-3 for approved products.

B. Medium cutoff reflector.

C. Fixtures to have I.E.S. full cutoff distribution reflector.

D. Acrylic or glass lens with internal refractor providing an E.I.S. Type III distribution.

PART 3 - WORKMANSHIP

3.1 EXAMINATIONS

A. Verify pole excavation location and depth matches plans prior to pole installation.

B. Verify that required clearances are available.

1.Transformers: 10 feet, front, 2 feet, side and back. See SD-1122.

2.Primary or Secondary Power Wires: 10 feet vertical and horizontal. See SD-1122.

3.Power Junction Box: 3 feet.

4.Curbing: 2 feet min., 6 feet max. from face of curb.

5.Structures: in accordance with National Electrical Safety Code.

6.Fire Hydrants: 10 feet side, 3 feet to the front.

7.Roadways: 18 feet vertical clearance for wires.

C. Examine pole and fixtures for defects or damage.

D. Verify pole, fixtures, electrical wiring, concrete, and materials delivered to the site meet the requirements of the Contract Documents.

E. Keep copies of electrical permits from the State of Idaho or the applicable municipality on-site.

3.2 JUNCTION BOX INSTALLATION

A. Install to locations as shown on the plans and at the power source (per SD-1117 or SD-1119). If not shown, space equidistant not to exceed 400 feet along straight conduit runs occur, at sharp bends, wire splices, or where direct burial and conduit junctions occur.

B. Excavate for box and aggregate foundation.

C. Install the junction box on 6 in. bed of compacted ¾-inch crushed aggregate base that extends 4 inches beyond the exterior of the box sides.

D. Do not install in any driveway or travel way unless box is fully rated for traffic.

E. Place top of junction box flush with surrounding ground, concrete, or pavement.

F. For historical street lights within the Capital City Development areas, an additional, parallel conduit shall be installed from the street light to the control cabinet to accommodate a separate circuit for the outlets on the poles.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project No. 23-285

Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

• S I G N A T U R E S •

Revisions:

Design By: NJS Date: 12/08

Drawn By: NJS Date: 12/08

Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

ELECTRICAL SPECIFICATIONS

CONTINUATION OF SECTION 16521 - STREET LIGHTING

3.3 WIRE OR CONDUCTORS

A. Splice underground wire only by means of approved connectors.

B. Splice underground wire only at pole bases or junction boxes.

C. Coil an additional 27 to 36 inches of wire at each connection point with transformer or junction box.

D. Attach overhead wire to the pole top and bond to the pole ground.

E. For overhead installation: Attach to the top of the new pole a complete coil of wire, long enough to span the distance between the new light and the power connection point.

3.4 CONDUIT INSTALLATION

A. Above Ground: All conduits required to be strapped, connected, or fastened to the pole at a minimum 5 feet interval.

B. Underground:

1. Raceways: Separate conduits by minimum of 3 inches.
2. Bedding: Surround conduit with a minimum of 3 inches clean sand.
3. Bends: Use standard manufactured elbows, bends, or couplings.
4. Kinking: Do not allow kinking or flattening of conduit if bending, use greatest radius possible.
5. Locating wires only **required** for conduit in which the conductors are not installed in conjunction with the conduit.
6. In landscaped areas: Minimum burial depth is 18 inches.
7. In travel way: Minimum burial depth is 30 inches or the requirement of the NEC, whichever is greater.
8. At installations where a street light is to be installed at a later date; seal ends of the conduit to prevent moisture and/or debris from entering.
9. For historical street lights within the Capital City Development areas, an additional, parallel conduit shall be installed from the street light to the control cabinet to accommodate a separate circuit for the outlets on the poles.

3.5 PHOTO CELL INSTALLATION

A. Mark date on every new or replacement installation.

B. Install to the manufacturer's recommendations.

C. Test Photoelectric Cell in the presence of the Engineer.

3.7 GROUNDING

A. Drive an 8 foot, 5/8-inch iron or steel rod 7.5 feet into the ground next to the pole.

B. Attach No. 6 AWG bare copper wire fastened to the pole at 5 foot intervals from the ground rod to the disconnect box, mast arm, and fixture.

C. Grounding per NEC, Article 250 and Standard Drawing SD-1121 - Grounding Details. Refer to details on sheet E-9, and City of Boise standard drawings BC SD-23 and BC SD-9.

3.8 CONCRETE POLE BASIS

A. Excavate pole base foundations to neat lines where soil conditions permit.

B. Place metal reinforcement and anchors per the Standard Drawings SD-1109.

C. Engineer to observe reinforcement and anchors prior to placement of concrete. Provide 48 hours' notice.

D. Place and finish concrete per ISPWC Division 700.

E. Concrete forming will be constructed per ISPWC Division 700.

F. Base dimensions and installation details shall conform to Standard Drawings SD-1109, SD-1116 and SD-1117.

G. Place and compact required backfill per ISPWC Division 300, Section 306.

3.9 POLE INSTALLATION

A. Excavate pole foundations to neat lines when soil conditions permit.

B. Refer to City of Boise standard drawing BC SD-23. Install metal poles in accordance with SD-11, SD-1109, SD-1116, SD-1117 and SD-1119.

C. Historical poles to be installed in accordance with standard drawings supplied by governing agency. Refer to City of Boise standard drawing BC SD-8 Historical Pole.

D. All poles shall be installed meeting the power company required clearances as shown on Standard Drawing SD-1112.

E. Street light connections to the power source shall be done by the power company.

F. Place and Compaction Requirements:

1. Backfill voids within 6 inches of the pole with crushed aggregate conforming to Section 802, Type I. Compact the backfill material to 95% maximum dry density. Use of sonotube forms to contain the imported material is acceptable, but is not required.
2. Backfill other disturbed soils in accordance with Section 204. Compact the backfill material to 92% maximum dry density.

G. Set pole plumb and true, mast arm and fixture perpendicular to public roadway or as approved by the Engineer.

H. Install prefabricated base, if applicable, per manufacturer's recommendations.

3.10 LUMINAIRE INSTALLATION

A. Install luminaire to manufacturer's recommendations.

B. Mark lamps with a month and year on the brass screw base to denote an installation date. See Standard Drawing SD-1120.

C. Test light in presence of the Engineer.

3.11 SERVICE PEDESTAL

A. Service pedestal shall be installed in accordance with Standard Drawing SD-1127.

B. Service pedestal wiring shall conform to the wiring diagrams shown on Standard Drawings SD-1125 and SD-1126, as directed by the Engineer. Service pedestals connected to historical street lights shall conform to SD-1126 with an additional meter connected to the electrical outlet circuit. See Attachment A on sheet EG-3 for approved products.

PART 4 - MEASUREMENT AND PAYMENT

4.1 Use the following unit price as designated on the Bid Schedule. If required and not listed in the Bid Schedule, the following Bid Items are to be considered incidental to other Bid Items.

A. Street Light: Measurement and payment per each for the type and size of pole, mast arm and fixtures specified on the Contract Documents. Includes materials, labor, and equipment needed for the excavation, foundation, pole, internal pole wiring, wiring, conduit, mast arms, fixtures, junction boxes, disconnect boxes, fuses, luminaires, connections, cabinets, fittings, connections and all appurtenances not itemized in the Bid Schedule to produce a fully functional street light.

Contractor to include in bid all permit costs and costs to install and initiate electrical service.

1. Bid Schedule Payment Reference: 1102.4.1.A.1.
2. Bid Schedule Description: Street Light Type _____ ... per each (EA).

B. Payment for relocation of an existing light pole per each, all materials to be reused at new location.

1. Bid Schedule Payment Reference: 1102.4.1.B.1.
2. Bid Schedule Description: Relocate Street Light Type _____ ... per each (EA).

C. Payment per each for installing a light pole as an intermediate line pole.

1. Bid Schedule Payment Reference: 1102.4.1.C.1.
2. Bid Schedule Description: Intermediate Pole Type _____ ... per each (EA).

D. Install Wire or Conductors: Measurement and payment on a per horizontal linear foot basis for type (underground or above ground) of the wire following the alignment of the wire provided and installed from the centerline of the pole to power source, including connections in accordance with the Contract Documents.

1. Bid Schedule Payment Reference: 1102.4.1.D.1.
Bid Schedule Description: Wire/Conductor, Type _____ ... per linear foot (LF).

E. Install Conduit: Measurement and payment on a per horizontal linear foot basis for size of conduit installed from the centerline of the pole to power source, including connections in accordance with the Contract Documents.

1. Bid Schedule Payment Reference: 1102.4.1.E.1.
Bid Schedule Description: Conduit, Size _____ ... per linear foot (FT).

F. Junction Box: Measurement and payment on a per each basis for providing and installing junction box as required by the Contract Documents.

1. Bid Schedule Payment Reference: 1102.4.1.F.1.
Bid Schedule Description: Junction Box... per each (EA).

G. Service Pedestal: Measurement and payment on a per each basis for a service pedestal provided and installed in accordance with the Contract Documents. Including the cabinet, base, foundation, wiring, breakers, switches and all other work and materials necessary for a complete installation.

1. Bid Schedule Payment Reference: 1102.4.1.G.1.
Bid Schedule Description: Service Pedestal... per each (EA).

END OF SECTION 16521

SECTION 16800 - ELECTRICAL DEMOLITION AND REPAIR

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes electrical demolition and repair. Work includes removal of obsolete wiring and electrical apparatus; relocation, reconnection or replacement of existing wiring affected by demolition or new construction; capping off concealed wiring abandoned due to demolition or new construction.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. Conductors and Cables: Refer to Section 16120 - Conductors and Cables.

B. Raceways and Boxes: Refer to Section 16130 - Raceways and Boxes.

PART 3 - EXECUTION

3.1 DEMOLITION

A. Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the work, remove damaged portions and install new products of equal capacity, quality, and functionality.

B. Accessible Work: Remove exposed electrical equipment and installations, indicated to be demolished, in their entirety. Completely remove all exposed traces, hardware, wiring and conduit systems to the source. All knockouts and holes shall be patched or plugged.

C. Contractor may re-use existing straight conduit runs and factory bends for conduits 2" and larger, provided that they are not damaged in any way and are installed in accordance with Section 16130.

D. Re-use of all other electrical apparatus and material is subject to approval by owner.

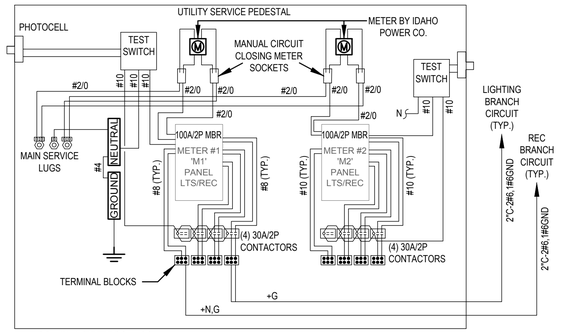
E. Abandoned Work: Cut and remove buried raceway and wiring, indicated to be abandoned in place, 2 inches below the surface of adjacent construction. Cap raceways and patch surface to match existing finish.

F. Remove demolished material for recycling as directed by owner.

G. Remove, store, clean, reinstall, reconnect, and make operational components indicated for relocation.

H. Power outages shall be held to a minimum and coordinated with the owner. Contractor shall schedule outages during off-hours.

END OF SECTION 16800



GENERAL NOTES:

A. IDENTIFICATION LABELS ARE REQUIRED FOR BRANCH BREAKERS. LIGHTING BRANCH BREAKER LABELS TO READ: LIGHTING CIRCUIT NO. (SEE PLANS). POWER BRANCH BREAKER LABELS TO READ: POWER CIRCUIT NO. (SEE PLANS).

B. SERVICE PEDESTAL TO BE NEMA TYPE '3R' FURNISHED WITH PADLOCK HASP.

C. DEAD FRONT CONSTRUCTION IS REQUIRED ON ALL CABINETS.

D. PLUG-IN TYPE BREAKER TO BE USED ON "B" SERVICES. MAIN BREAKERS TO BE BOLT RETAINED.

E. TERMINAL BLOCKS SHALL BE PRESSURE TYPE, AS REQUIRED FOR #8 THROUGH #2 AWG WIRE

F. ALL SERVICES TO BE UL LABELED FOR MAXIMUM 200 AMP BUS RATING AND "APPROVED FOR SERVICE ENTRANCE EQUIPMENT."

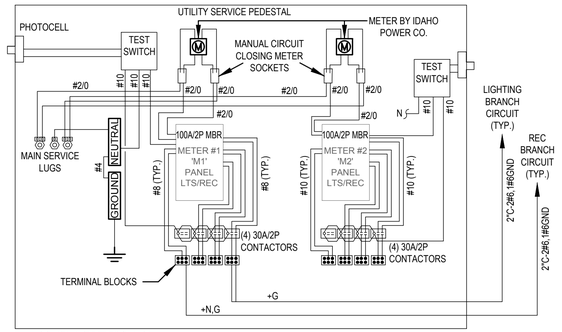
G. THE MAIN BREAKER LABEL TO BE MADE OF RED ON WHITE PLASTIC LAMINATE. THE BRANCH BREAKER LABELS TO BE MADE OF BLACK ON WHITE PLASTIC LAMINATE. THE LEGENDS TO BE ENGRAVED INTO THE STRIP SO AS TO PROVIDE WHITE LEGENDS ON THE REQUIRED BACKGROUND. THE LABELS TO BE PERMANENTLY ATTACHED TO THE DEAD FRONT, NEXT TO THE CORRESPONDING BREAKERS.

H. BRANCH CIRCUIT BREAKERS, BRANCH CIRCUIT WIRE, AND PHOTOELECTRIC CONTROL TO BE SUPPLIED BY THE CONTRACTOR. M1:(1)15A/1, (3)20A/1, (3)30A/2. M2:(1)15A/1, (3)20A/1, (3)30A/2.

I. ALL BUSSING TO BE 200 AMP RATED.

J. WIRING TO BE THWN/MTW 600V 90°C RATED

1 METERED UTILITY PEDESTAL DETAIL 15TH
NTS



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H. BRANCH CIRCUIT BREAKERS, BRANCH CIRCUIT WIRE, AND PHOTOELECTRIC CONTROL TO BE SUPPLIED BY THE CONTRACTOR. M1:(1)15A/1, (3)20A/1, (3)30A/2. M2:(1)15A/1, (3)20A/1, (3)30A/2.

I. ALL BUSSING TO BE 200 AMP RATED.

J. WIRING TO BE THWN/MTW 600V 90°C RATED

2 METERED UTILITY PEDESTAL DETAIL 13TH
NTS

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project No. 23-285

CSHQA Approval Stamp

HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

ELECTRICAL SPECIFICATIONS & DETAILS

• D E T A I L T I T L E •

ELECTRICAL SPECIFICATIONS / DETAILS

• S I G N A T U R E S •

Revisions:

Design By: NJS Date: 12/08

Drawn By: NJS Date: 12/08

Survey By: NJS Date: 05/23

BOISE CITY
STANDARD REVISIONS
FOR ISPWC DIVISION 1102
STREET LIGHTS

GENERAL INFORMATION

All work shall conform to the requirements of the most current edition of the National Electrical Code, the Idaho Standards for Public Works Construction (ISPWC), and the Supplementary Conditions and these Standard Revisions. Contractor shall become familiar with these documents to ensure full understanding of the requirements of this Project. Failure to do so does not relieve the Contractor of the duties, obligations and responsibilities addressed within those documents.

The Idaho State Electrical Board has determined that all street lights are to be provided with an external fuse disconnect, in a junction box between the power source and the street light pole. See attached standard drawings for connection requirements.

Street light installations inspections will be required for the concrete base reinforcing, the trench depth and bedding, and for the pole. Contact City of Boise at 208-608-7526 for inspections, 48 hour notice required. Contractor shall notify the City when street light is ready for turn on.

Approved products for Boise City street light installations are on the city web page. Contact Boise street light staff to seek approval for any substitute products.

REVISIONS TO THE STANDARD SPECIFICATIONS

SECTION 1102

STREET LIGHTING

PART 2 MATERIALS

2.2 JUNCTION BOXES

2.2.A Replace with the following:
Junction boxes in driveways or roadways are not allowed.

2.2.B Replace with the following:
Junction boxes in sidewalks and similar areas to be concrete that has steel lid that bolts down with a 3/8" bolt. This lid must be bonded to the equipment grounding conductor with the use of a #6 compression lug.

Add the following:

2.2.C Junction boxes in landscape areas may be plastic or fiberglass.

2.2.D All junction boxes to have a means to secure lid with 3/8" bolt.

2.2.E See city website for approved materials

2.2.F J-boxes used at the Idaho Power service connections may not use a metal lid.

2.3 FUSE HOLDERS

A.1. Add the following sentence.
Fuses for Boise City installation shall be fast acting – 100k RMS Amps-600VAC.

B.1. Add the following sentence.
Fuses for Boise City installation shall be fast acting – 100k RMS Amps-600VAC.

2.4 CONDUCTOR

B.2 Add the following sentence.
Phase "A" shall be colored Black, phase "B" shall be colored Red, and the receptacle conductors shall be in Blue and White.

D.2 Change # 8 AWG THWN insulated copper wire to # 10 AWG THWN or THWN-2 insulated copper wire

2.7 DISCONNECT BOXES

Add paragraph D

D. Disconnect boxes are only required for overhead wiring.

2.8 MAST ARMS FOR WOOD POLES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.9 WOOD POLES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.10 METAL POLES

In paragraph C, Direct burial poles are not allowed

Add the following paragraph:

F. Poles may be square, round or tapered round. Decorative poles are prohibited. Poles for decorative fixtures (approved by the City) are to be round. See Street Light Approved poles listed on the city web page.

2.11 FIBERGLASS POLES **NOT USED FOR BOISE CITY INSTALLATIONS**

2.12 HISTORICAL POLES

Replace with the following:

A. Historical style metal poles shall be true copies, approved by Boise City, Department of Public Works, of the original Old Boise Historical Pole. The new historical poles shall have the same surface texture and have the same Dark Green (RAL 6009) color finish that matches the existing Historical poles in the Historical Lighting District. Metal poles shall have a powder coat finish in accordance with ASTM B- 117.

B. Historical poles for the City of Boise shall be cast aluminum, in style and texture of the original Old Boise Historical Pole (see standard drawing BC SD-8). See City website for approved products.

C. Color: To match existing poles, approved color mix for Sherwin Willams DTM Acrylic Coating RAL 6009 Fir Green Order #0174795.

D. Additional pole requirement for historic lights installed within the Capitol City Development Corporation (CCDC) shall be:

1. Poles shall be supplied with an GFCI receptacle with a metal bubble cover having the same color as the pole as shown on standard drawing BC SD-8.
2. Poles shall be supplied with a manufacturer's adaptor for installation of the approved banner arms and a banner arm. The adapter or banner arm shall face the building or lot only.

2.13 BOLLARDS **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.14 PREFABRICATED BASES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.15 SERVICE PEDESTAL

Add the following:

C. See Street Light Approved list on the city web page for approved products.

2.16 LIGHT FIXTURES

Replace paragraph A & D. with the following and add G.:

A. Fixture light level as required by Boise City Public Works. Class "A" Residential 4500 - 5500 lumen, and Class "B" Collector/General Roadway 9,500 – 11,500 lumens.

D. LED lighting color temperature for residential streets to arterial streets is 3000 K and for Arterial/Collector is 4000 K

G. Effective 1 October 2015 all fixtures installed shall be labeled with the fixture wattage using a label meeting ANSI C136.15-2011 using the large type. If the manufacturer does not supply the ANSI label then the installer shall mark the fixture with the fixture wattage using black labels with white numbering a minimum of 1.5 inches wide by 2.5 inches high on the bottom of the fixture visible from the ground. If there is not sufficient area on the bottom of the fixture, the wattage label shall be placed on the pole just below the fixture. See examples below. The only exception to this requirement shall be the City of Boise Historical Pole and Fixture. It will not require any wattage label.

PART 3 WORKMANSHIP

3.2 JUNCTION BOX INSTALLTION

Modify paragraph D: Do not install in any driveway or roadway.

3.3 WIRE OR CONDUCTORS

Modify paragraph B and add paragraph F.

B. Splice underground wire only at junction boxes adjacent to pole bases.

F. For all street lighting installations within the City of Boise the only approved connectors for # 6 or larger wire shall be a split-bolt type connector for ground wires. Waterproof connectors from the Street Light Approved list on the city web page for all other conductors.

3.4 CONDUIT INSTALLATION

B. Underground:
Modify item 5 to read: Location wires only **required** to be installed inside the conduit in which the conductors are not installed.

Add the following item:

9. For historical street lights within the Capital City Development areas, an additional, parallel conduit shall be installed from the street light to the control cabinet to accommodate a separate circuit for the outlets on the poles.

3.6 DISCONNECT BOXES **NOT USED FOR BOISE CITY INSTALLATIONS.**

3.7 GROUNDING

Add to paragraph D. reference to City of Boise standard drawing BC SD-1117 and ISPWC Standard Drawings.

3.8 CONCRETE POLE BASES

In paragraph F., add reference to City of Boise standard drawing BC SD-9 Historical Pole base.

3.9 POLE INSTALLATION

In paragraph B., delete reference to wood and fiberglass poles.
In paragraph C., add reference to City of Boise standard drawing BC SD-11.

"G, H, I, J" - NOT USED FOR BOISE CITY INSTALLATIONS

3.11 SERVICE PEDESTAL

Modify paragraph A: Service pedestals shall be installed in accordance with standard drawing BC SD-1127.

In paragraph B., Add the following sentence:

Service pedestals connected to historical street lights in the downtown core shall conform to SD-1126 with an additional meter connected to the electrical outlet circuit. Contact Public Works to verify if your locations will need to meet this requirement. See Street Light Approved list on the city web page for approved products.

ADDITIONAL CITY OF BOISE STANDARD DRAWINGS ATTACHED

BC SD-8 HISTORICAL POLE DETAIL

BC SD-9 HISTORICAL POLE BASE DETAIL

BC SD-11 HISTORICAL STREET LIGHT PLACEMENT

BC SD-1127 STREET LIGHT SERVICE PEDESTAL BASE

EXAMPLE OF THE ANSI C136.15-2011 LED WATTAGE LABEL

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2662
www.musgroveps.com
Project No. 23-285

CSHQA Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

ELECTRICAL SPECIFICATIONS

NOT FOR CONSTRUCTION

Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08
Drawn By: NJS Date: 12/08
Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

ELECTRICAL SPECIFICATIONS

CAPITAL CITY DEVELOPMENT CORP

Capital City Development Corp

121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street – 16th to 12th Streetscape Improvements

Sheet EG-5

EG-5

CITY OF BOISE SPECIFICATIONS FOR
LIGHT EMITTING DIODE (LED) STREET LIGHTING
Effective 1 Feb, 2019

1. LIGHT EMITTING DIODE (LED) LUMINAIRES FOR ROADWAY TYPE 3 ILLUMINATION

A. Testing and Compliance / Manufacturer

1. The luminaire must be listed by a National Recognized Testing Laboratory (NRTL) as defined by the U.S. Department of Labor and recognized by OSHA.
2. A label must be clearly visible on the luminaire that states operating voltage and current range as well as independent third-party testing laboratory approval, i.e. UL, CSA or equivocal.
3. The luminaire must be listed and labeled by a NRTL as being suitable for use in wet locations.
4. The luminaire must have RoHS compliant light source and drivers.
5. The luminaire must be in compliance with Electro Magnetic Interference (EMI) requirements as defined by FCC 47 Sub Part 15.
6. The luminaire must be manufactured in ISO 9001 certified facility or manufacturer must provide a copy of company workmanship standards and or quality control manual.
7. Manufacturer must have product support representation within the Northwest region.
8. Manufacturer must be able to show they have been in business at least two times the length of warranty offered on their product or 10 years, whichever is less.

B. Fixture Construction

1. Housing and heat sink constructed out of Aluminum.
2. All hardware will be corrosion resistant.
3. Fixture will not weight more than 44 lbs. when fully assembled.
4. Design will not trap water.
5. When installed, simple access to internal components; (terminal block, driver surge protector). Approved fixtures for installation are on the street light approved fixture and materials listing on the City of Boise website.
6. Provisions for a 2 or 4-bolt slip fitter type mounting on nominal 2-inch (2 3/8 OD) pipe brackets. Slip fitter mount shall allow 4 inches of the pole bracket to be inserted in the luminaire mounting assembly.
7. The mounting assembly will permit any necessary adjustment to orient the luminaire with the roadway for proper light distribution.
8. Only passive cooling method can be used to manage thermal output of the LED light engine and power supply.
9. Fixture will have a completely sealed optical system with an IP rating of 65 or greater.
10. Fixture to have NEMA Photocontrol receptacle for either NEMA shorting cap or NEMA photo cell.
11. Fixture shall provide a type 3 light distribution pattern.

C. Electrical Requirements

1. Luminaire will fully operate in an ambient temperature range of -30°C to 40°C (-22°F to 104°F).
2. Power supply (electronic driver) will be integral to the fixture.
3. The power supply (electronic driver) will operate within 100 to 300 VAC (rms) at 50/60 hertz.
4. The power supply (electronic driver) will have a power factor of .90 or greater and a total harmonic distortion of 20% or less at full load.
5. The power supply (electronic driver) will have thermal overload protection.
6. A power supply (electronic driver) with a rated life of 70,000 hours with a luminaire operated at an ambient temperature of 25°C (77°F).
7. The power supply (electronic driver) will have self-limited short circuit protected and over load protected.
8. The power supply (electronic driver) will be fully incased with IP rating of 65 or greater.
9. Surge protection device, incorporating a circuit module, internal fusing and MOV's rated to withstand 10kV of transient line surge, separate from the power supply (electronic driver), that can easily be replaced but still contained within the housing.
10. A terminal block for terminating pole wiring to the luminaire is required. The terminal block shall be a 3 station, tunnel lug terminal board that will accommodate #6 thru #18 AWG wire.

D. LED Performance Requirements

Shall meet the Chromaticity requirements as follows:

1. The standard color for the LED luminaire shall be white. The colors shall conform to the following color regions based on the 1931CIE chromaticity diagram.
2. Nominal Correlated Color Temperature, CCT = 3000K for Residential and 4000K for Arterial and Collector streets.
3. No more than plus or minus 300 K variance between fixtures to provide a uniform appearance throughout project installations.
4. Must have a minimum Color Rendering Index (CRI) of 70
5. Intensity and Chromaticity must be confirmed by an Independent test lab.
6. The luminaire must have a minimum efficacy of 112 lumens per watt.
7. The luminaire will deliver an average 90% of initial lumens after 60,000 hours of operation based on TM-21 data.

E. Warranty

1. The entire luminaire assembly including material, workmanship, finish, photometrics, labor, power supply, surge protectors, and LED modules will have a minimum of ten (10) year warranty from the date of installation.
2. If more than 10% of the individual LEDs fail within the warranty period, the luminaire must be repaired or replaced.

2. LIGHT EMITTING DIODE (LED) LUMINAIRES FOR HISTORIC DECORATIVE ILLUMINATION

A. Testing and Compliance / Manufacturer

1. The luminaire must be listed by a National Recognized Testing Laboratory (NRTL) as defined by the U.S. Department of Labor and recognized by OSHA.
2. A label must be clearly visible on the luminaire that states operating voltage and current range as well as independent third-party testing laboratory approval, i.e. UL, CSA or equivocal.
3. The luminaire must be listed and labeled by a NRTL as being suitable for use in wet locations.
4. The luminaire must have RoHS compliant light source and drivers.
5. The luminaire must be in compliance with Electro Magnetic Interference (EMI) requirements as defined by FCC 47 Sub Part 15.
6. The luminaire must be manufactured in ISO 9001 certified facility and must provide a copy of company workmanship standards and or quality control manual.
7. Manufacturer must have product support representation within the Northwest region.
8. Manufacturer must be able to show they have been in business at least two times the length of warranty offered on their product or 10 years, whichever is less.
9. Manufacturer must have website with downloadable specification sheets and photometric IES files.

B. Fixture Construction

1. Housing and heat sink constructed out of Aluminum.
2. All hardware will be corrosion resistant.
3. Fixture will not weight more than 50 lbs. when fully assembled.
4. Design will not trap water.
5. Fixture must be capable of mounting on top of the current approved Boise Historic Light Pole, standard drawing BC SD-8 without any field modification. Current approved poles are on the "Street Light Approved Fixtures and Materials" list on the Boise website. Decorative Cast pole drawing BC SD-8.
6. The mounting assembly will permit any necessary adjustment to orient the luminaire with the roadway for proper light distribution.
7. Only passive cooling method can be used to manage thermal output of the LED light engine and power supply.

C. Electrical Requirements

1. Luminaire will fully operate in an ambient temperature range of -30°C to 40°C (-22°F to 104°F).
2. Power supply (electronic driver) will be integral to the fixture.
3. The power supply (electronic driver) will operate within 100 to 300 VAC (rms) at 50/60 hertz.
4. The power supply (electronic driver) will have a power factor of .90 or greater and a total harmonic distortion of 20% or less at full load.
5. The power supply (electronic driver) will have thermal overload protection.
6. A power supply (electronic driver) with a rated life of 70,000 hours with a luminaire operated at an ambient temperature of 25°C (77F).
7. The power supply (electronic driver) will have self-limited short circuit protected and overload protected.
8. The power supply (electronic driver) will be fully incased with IP rating of 65 or greater.
9. Surge protection device, incorporating a circuit module, internal fusing and MOVs rated to withstand 10kV of transient line surge, separate from the power supply (electronic driver), that can easily be replaced but still contained within the housing.
10. Connections shall be accomplished using standard connections and fittings, meeting NEC electrical codes. These connections must be robust and utilize vibration resistant mechanisms.

D. LED Performance Requirements

1. Shall meet the Chromaticity requirements as follows:
2. The standard color for the LED luminaire shall be white. The colors shall conform to the following color regions based on the 1931CIE chromaticity diagram.
3. Nominal Correlated Color Temperature, CCT = 5000K
4. No more than plus or minus 300 K variance between fixtures to provide a uniform appearance throughout project installations.
5. Must have a minimum Color Rendering Index (CRI) of 70
6. Intensity and Chromaticity must be confirmed by an Independent test lab.
7. The luminaire must have a minimum efficacy of 115 lumens per watt.
8. The luminaire will deliver an average 90% of initial lumens after 75,000 hours of operation based on TM-21 data.

E. Warranty

1. The entire luminaire assembly including material, workmanship, finish, photometrics, labor, power supply, surge protectors, and LED modules will have a minimum of ten (10) year warranty from the date of installation.
2. If more than 10% of the individual LEDs within the warranty period the luminaire must be repaired or replaced.

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project No. 23-285

CSHQA
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SUITE 100
BOISE, ID 83706

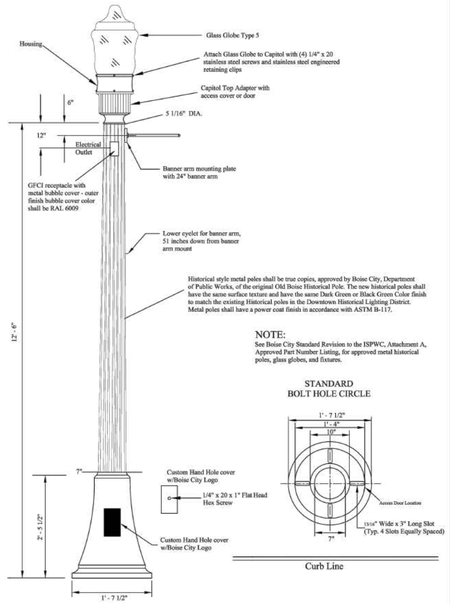
ELECTRICAL SPECIFICATIONS
COMPLETED

• D E T A I L T I T L E •
ELECTRICAL SPECIFICATIONS

• S I G N A T U R E S •

Revisions:

Design By: NJS	Date: 12/08	Drawn By: NJS	Date: 12/08	Survey By: NJS	Date: 05/23

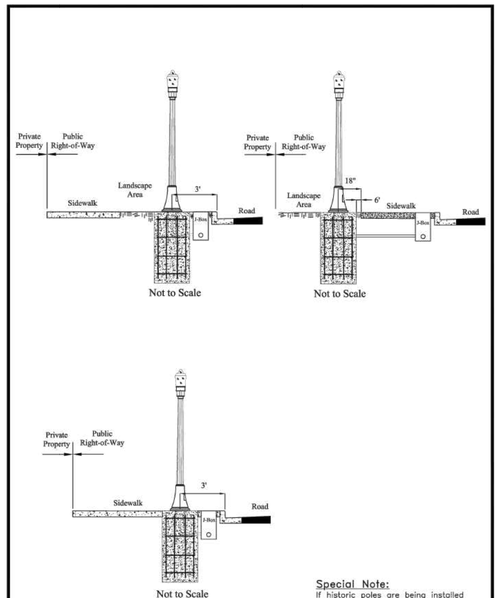


Drawn By: H.A./MJ
Checked By: T.M.
Date: 05/10/18

PUBLIC WORKS DEPARTMENT
150 N. CAPITOL BLVD.
BOISE, IDAHO 83702
(208) 384-3900

HISTORICAL POLE DETAIL

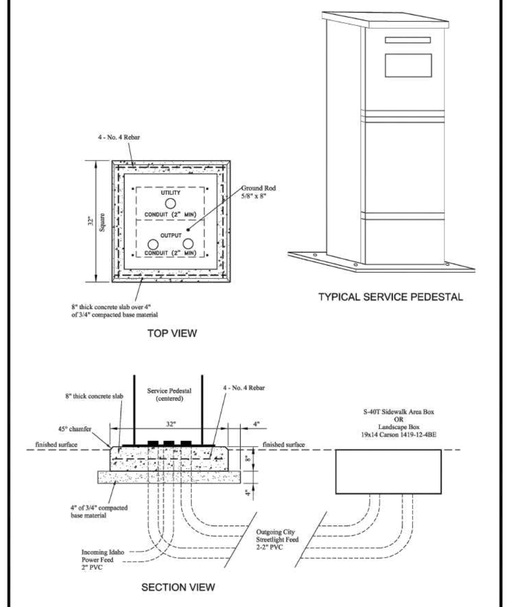
STANDARD DRAWING NO. BC SD-8
REVISED: 05/16/2019



IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

HISTORICAL STREET LIGHT PLACEMENT

STANDARD DRAWING NO. BC SD -11
REVISED: 01/16/2018

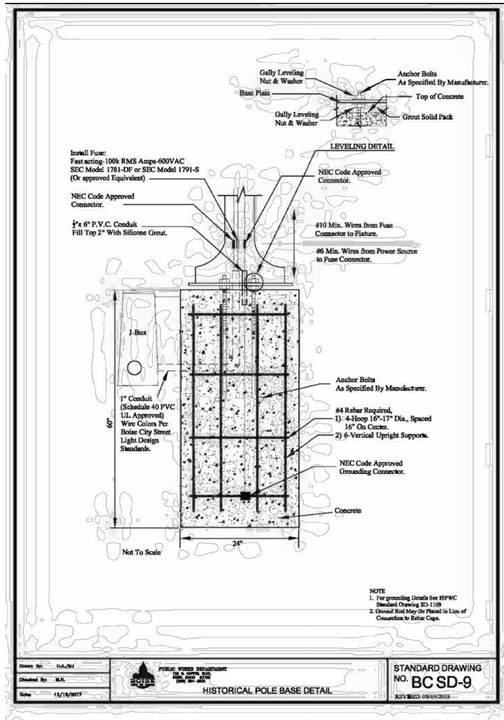


Drawn By: W.W.L.
Checked By: T.M.
Date: REV 6/25/2021

PUBLIC WORKS DEPARTMENT
150 N. CAPITOL BLVD.
BOISE, IDAHO 83702
(208) 384-3900

STREET LIGHT SERVICE PEDESTAL BASE

STANDARD DRAWING NO. BC SD-1127

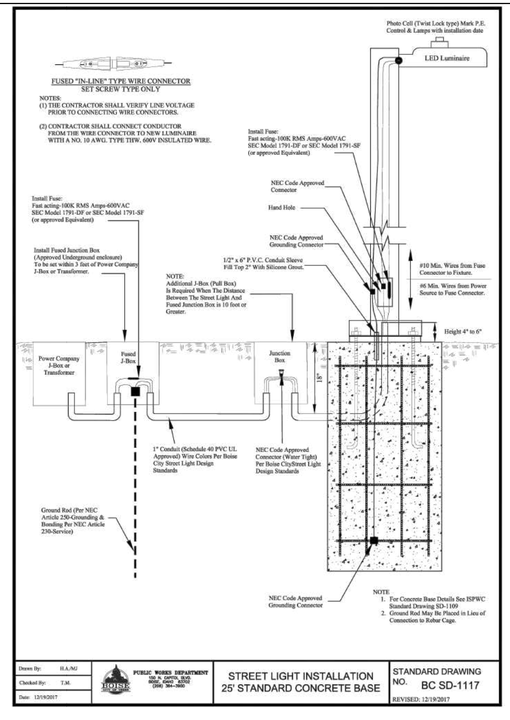


Drawn By: H.A./MJ
Checked By: M.K.
Date: 12/18/2017

PUBLIC WORKS DEPARTMENT
150 N. CAPITOL BLVD.
BOISE, IDAHO 83702
(208) 384-3900

HISTORICAL POLE BASE DETAIL

STANDARD DRAWING NO. BC SD-9
REVISED: 05/05/2018



Drawn By: H.A./MJ
Checked By: T.M.
Date: 12/19/2017

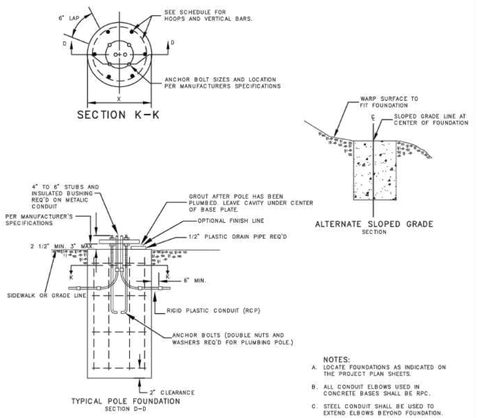
PUBLIC WORKS DEPARTMENT
150 N. CAPITOL BLVD.
BOISE, IDAHO 83702
(208) 384-3900

STREET LIGHT INSTALLATION 25' STANDARD CONCRETE BASE

STANDARD DRAWING NO. BC SD-1117
REVISED: 12/19/2017

POLE FOUNDATION SCHEDULE

POLE TYPE	WT. HT	MASTARM LENTH	FOUNDATION TYPE	X	Y	HOOPS NO.	HOOPS SIZE	HOOPS LIN. FT.	DIAMETER	VERTICAL RODS NO.	VERTICAL RODS SIZE	VERTICAL RODS LIN. FT.	CU. YDS. CONCRETE
PEDESTRIAN SIGNAL POLE	10'	–	A	2'-0"	5'-0"	4	#4	23'-0"	–	6	#4	28'-0"	.6
LIGHT POLE	25'-30	ALL	A	2'-0"	5'-0"	4	#4	23'-0"	20"	6	#4	28'-0"	.8
LIGHT POLE	35'	ALL	B	2'-6"	7'-0"	4	#4	29'-4"	26"	6	#6	40'-0"	1.3
LIGHT POLE	40'-50'	ALL	C	3'-0"	8'-0"	5	#4	44'-2"	32"	8	#6	61'-4"	2.1
SIGNAL POLE	–	20'- 45'	D	3'-0"	9'-0"	5	#4	44'-2"	–	8	#6	69'-4"	2.4
PED. PUSHBUTTON POLE	4'-0"	–	E	1'-8"	2'-6"	–	–	–	–	–	–	–	.2
DUAL MASTARM SIGNAL POLE	–	ALL	F	3'-0"	12'-0"	8	#5	70'-8"	–	12	#6	140'	3.1
SIGNAL POLE	–	50' - 55'	F	3'-0"	12'-0"	8	#5	70'-8"	–	12	#6	140'	3.1
SIGNAL POLE	–	60' – 65'	G	3'-6"	14'-0"	9	#5	78'-10"	–	12	#6	156'	3.7



NOTES:
A. LOCATE FOUNDATIONS AS INDICATED ON THE PROJECT PLAN SHEETS.
B. ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
C. STEEL CONDUIT SHALL BE USED TO EXTEND ELBOWS BEYOND FOUNDATION.
D. SPARE STUBOUTS SHALL BE TERMINATED WITH A STEEL COUPLING AND PLASTIC PUSH PLUG AT BOTH ENDS
E. DO NOT GROUT IF BREAKAWAY DEVICES ARE USED.
F. SEE GROUNDING DETAIL DRAWING SD-1121

1 NOV 2021

IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION

STANDARD SIGNAL POLE FOUNDATION DETAIL

STANDARD DRAWING NO. BC SD-1109

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgroveps.com
Project No. 23-285

CSHQA
Approval Stamp

HDR
412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

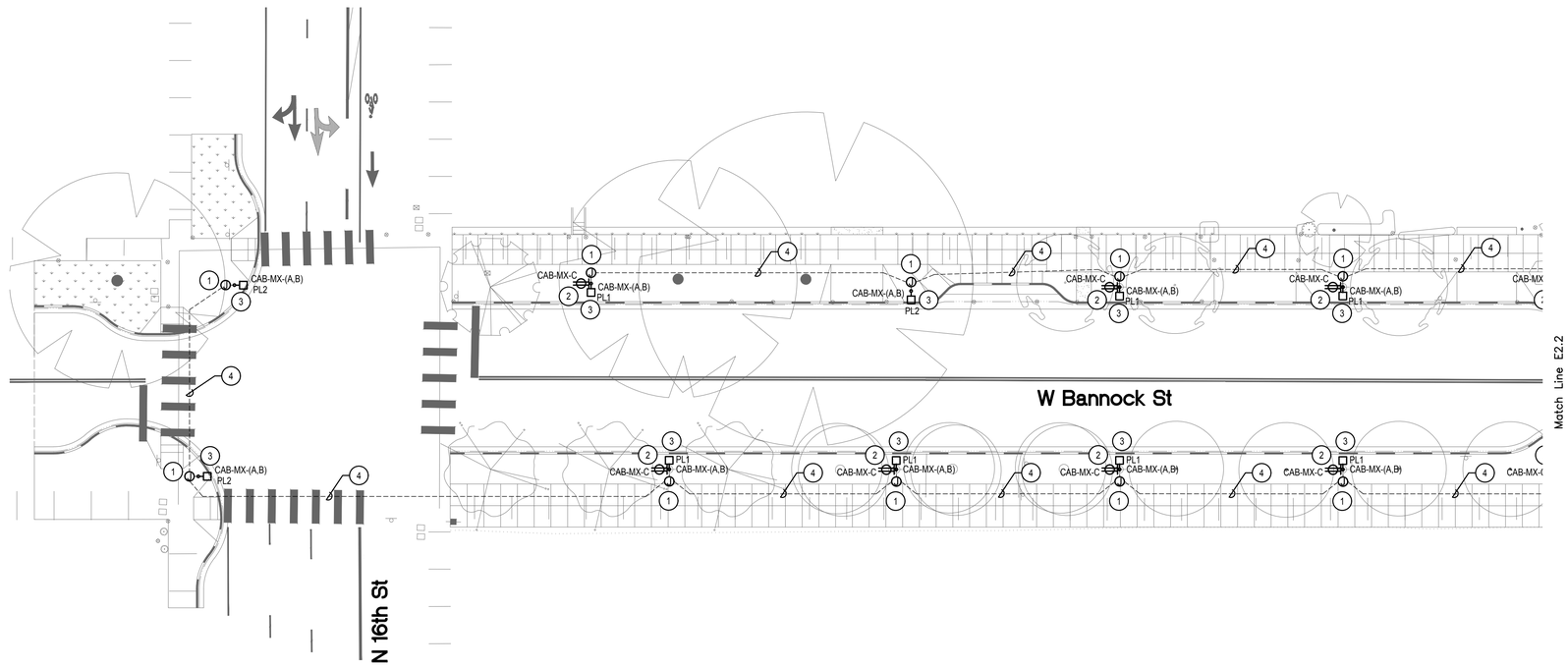
Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08
Drawn By: NJS Date: 12/08
Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

BOISE CITY STANDARD DETAILS



0 20 40 60

Plan Scale

N O T E S

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE PULL BOX ADJACENT TO THE NEW LIGHT POLE. COORDINATE LOCATION WITH CIVIL ENGINEER PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS ON SHEETS EG-2 THROUGH EG-7. PULL BOX LID SHALL BE RAW STEEL WITH NO PAINT OR PRIMER.
2. INSTALL RECEPTACLE ON POLE. REFER TO DETAIL DETAILS AND SPECIFICATIONS ON SHEETS EG-2 THROUGH EG-7.
3. PROVIDE AND INSTALL NEW LIGHT FIXTURE, POLE AND RECEPTACLE ON NEW BASE. REFER TO REFERENCED STANDARDS, SPECIFICATIONS AND DETAILS.
4. (2)2" CONDUITS FOR LIGHTING POWER AND RECEPTACLE POWER. REFER TO STANDARDS AND DETAILS ON EG-2 THROUGH EG-7.

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234 S. Whisperwood Way
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KEY MAP (A, B, C, D)

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Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08
Drawn By: NJS Date: 12/08
Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

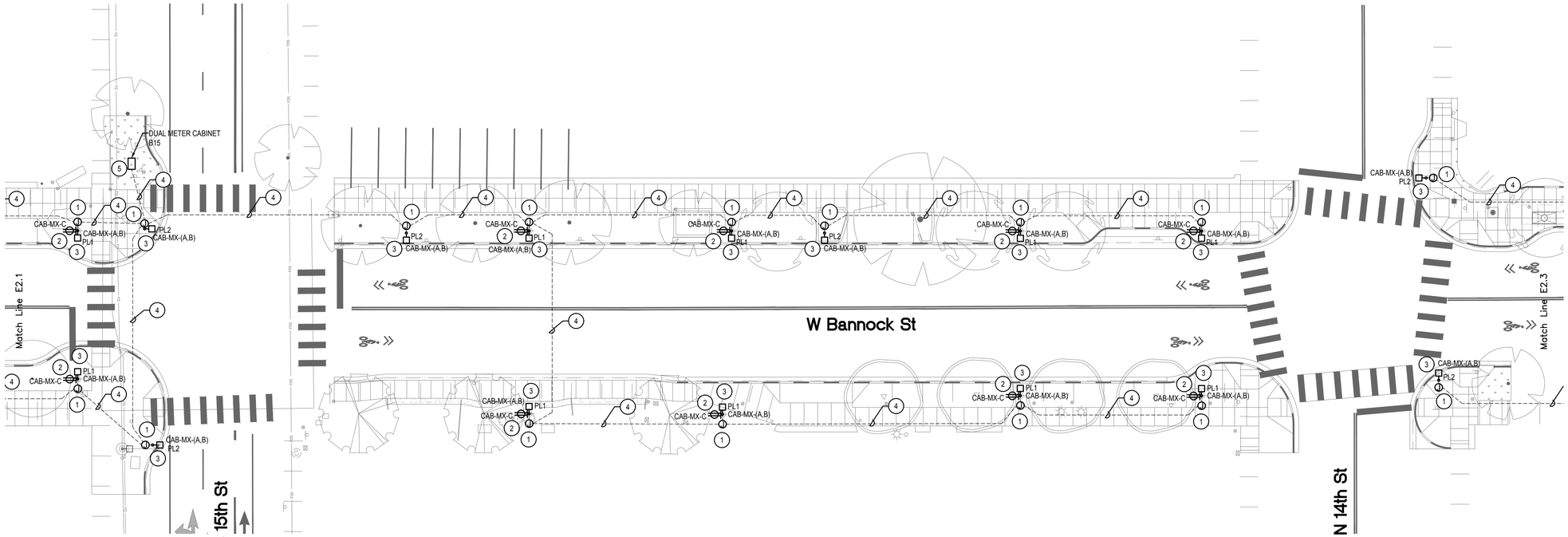
ELECTRICAL PLAN - 1500 BLOCK

Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet E2.1



0 20 40 60

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3. PROVIDE AND INSTALL NEW LIGHT FIXTURE, POLE AND RECEPTACLE ON NEW BASE. REFER TO REFERENCED STANDARDS, SPECIFICATIONS AND DETAILS.
4. (2)2" CONDUITS FOR LIGHTING POWER AND RECEPTACLE POWER. REFER TO STANDARDS AND DETAILS ON EG-2 THROUGH EG-7.
5. NEW METERED UTILITY PEDESTAL AT SIGNAL CAB. REFER TO EG-4 FOR METERED PEDESTAL REQUIREMENTS. COORDINATE INSTALLATION OF SERVICE CONDUCTORS WITH IDAHO POWER. DIVISION 26 TO PROVIDE AND INSTALL SERVICE CONDUIT TO FEED NEW PEDESTAL. COORDINATE ROUTING, SIZE AND QUANTITY OF CONDUITS WITH IDAHO POWER.

MUSGROVE ENGINEERING, P.A.
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KEY MAP

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Revisions:

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Drawn By: NJS Date: 12/08

Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

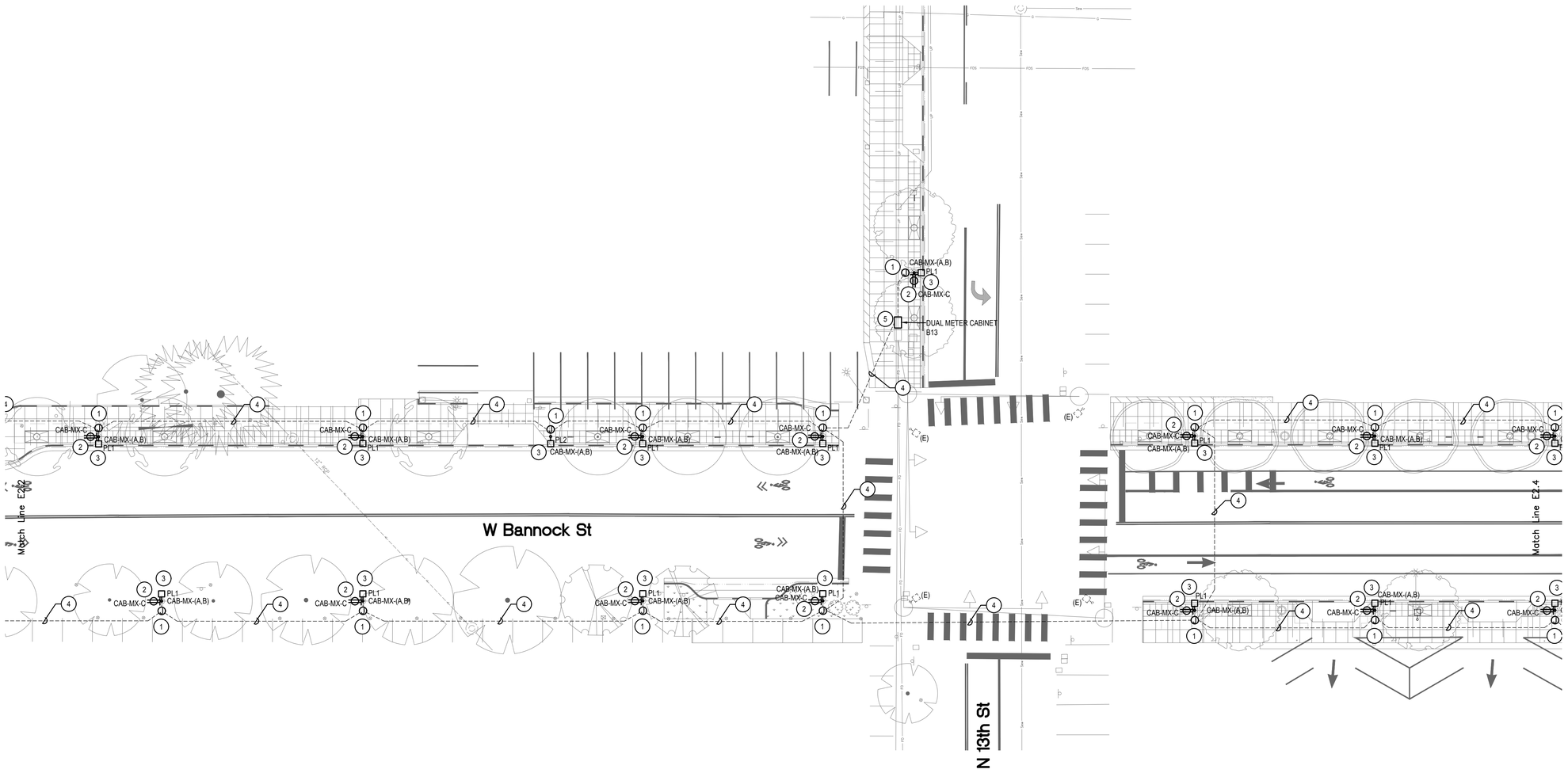
ELECTRICAL PLAN - 1400 BLOCK

Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet E2.2



N O T E S

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE PULL BOX ADJACENT TO THE NEW LIGHT POLE. COORDINATE LOCATION WITH CIVIL ENGINEER PRIOR TO ROUGH-IN. REFER TO DETAILS AND SPECIFICATIONS ON SHEETS EG-2 THROUGH EG-7. PULL BOX LID SHALL BE RAW STEEL WITH NO PAINT OR PRIMER.
2. INSTALL RECEPTACLE ON POLE. REFER TO DETAIL DETAILS AND SPECIFICATIONS ON SHEETS EG-2 THROUGH EG-7.
3. PROVIDE AND INSTALL NEW LIGHT FIXTURE, POLE AND RECEPTACLE ON NEW BASE. REFER TO REFERENCED STANDARDS, SPECIFICATIONS AND DETAILS.
4. (2)2" CONDUITS FOR LIGHTING POWER AND RECEPTACLE POWER. REFER TO STANDARDS AND DETAILS ON EG-2 THROUGH EG-7.
5. NEW METERED UTILITY PEDESTAL AT SIGNAL CAB. REFER TO EG-4 FOR METERED PEDESTAL REQUIREMENTS. COORDINATE INSTALLATION OF SERVICE CONDUCTORS WITH IDAHO POWER. DIVISION 26 TO PROVIDE AND INSTALL SERVICE CONDUIT TO FEED NEW PEDESTAL. COORDINATE ROUTING, SIZE AND QUANTITY OF CONDUITS WITH IDAHO POWER.

0 20 40 60

Plan Scale

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project No. 23-285

KEY MAP

A B C D

Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08

Drawn By: NJS Date: 12/08

Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

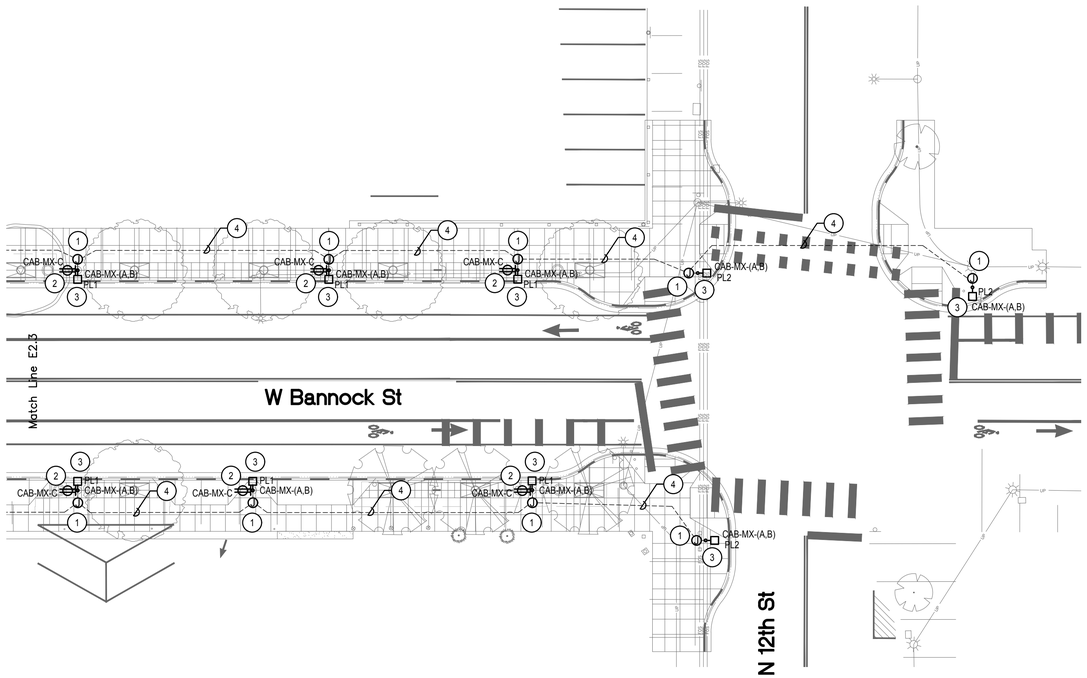
ELECTRICAL PLAN - 1300 BLOCK

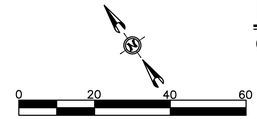
Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet E2.3





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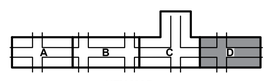

KEY MAP

CSHQA
Approval Stamp

412 E. PARKCENTER BLVD.
SUITE 100
BOISE, ID 83706

60% COMPLETED

Revisions:

• S I G N A T U R E S •

Design By: NJS Date: 12/08

Drawn By: NJS Date: 12/08

Survey By: NJS Date: 05/23

• D E T A I L T I T L E •

ELECTRICAL PLAN - 1200 BLOCK

Capital City Development Corp
121 N. 9th Street Suite 501, Boise, Idaho, 83702
www.ccdcboise.com

Project Number: 23056

Project Name: Bannock Street - 16th to 12th Streetscape Improvements

Sheet E2.4