

AGENDA BILL

Agenda Subject:		Date:	
Consider Resolution 1873: Bannock Street Streetscape Improvements,		May 13, 2024	
12th to 16th Streets Project.	Construction Manager/General Contractor		
(CM/GC) RFQ Ranking	-		
Staff Contacts:	Attachments:		
Amy Fimbel	A. Resolution 1873		
Sr. Project Manager	B. Request for Qualifications – iss	ued February 28, 2024	
	C. Final Evaluation Tally	-	
Kathy Wanner			
Contracts Manager			
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Action Requested:			
-	oving the CM/GC RFQ ranking for the Bann	ock Street Streetscape	
	Streets Project and authorizing the Executiv		
and execute a CM/GC Agree	, ,		
and execute a CM/GC Agree			

Background:

In 2023, the Agency began the Bannock Street Streetscape Improvements 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 Ada County Highway District (ACHD) is concurrently developing the <u>Bannock Street Neighborhood Concept</u> design—which has similar objectives—and plans for bicycle and pedestrian improvements from 29th Street to Avenue C. At the outset of these two projects, the Agency and ACHD began coordinating planning efforts of the overlapping project areas. During preliminary design, ACHD proposed an interagency cost share agreement that includes pavement rehabilitation and the replacement of Boise City Canal structure #1489 which crosses under Bannock Street east of 14th Street.

Improvements anticipated with this Project include:

- Streetscape improvements that are compliant with the City of Boise's Streetscape Standards, including curb bulbouts and suspended pavement systems where appropriate
- Installation of new street trees, historic light pole assemblies, bike racks, and concrete planters
- Stormwater infrastructure improvements
- Pavement reconstruction consisting of a 2" mill and inlay of asphalt pavement within the Project limits
- Replacement of the Boise City Canal structure 1489 across Bannock St east of 14th Street
- Added traffic signals at the 15th and 16th Street intersections.

The program of improvements is extensive and will require precise planning and coordination. Due to the complexities inherent to streetscape construction in a downtown environment, the level of pedestrian, bicycle and vehicle traffic in the area, and the proximity to Meadow Gold Dairy, Fire Station 5, and St. Paul Baptist Church, the Agency determined the best approach for this Project would be to utilize the Construction Manager/General Contractor ("CM/GC") construction delivery method.

The CM/GC Delivery Method:

The CM/GC is selected through a qualifications-based selection process in accordance with Idaho Code. For public works construction, CM/GCs must hold both a Construction Manager license and a Public Works Contractor license. Throughout the project the CM/GC represents the Agency to ensure a predictable and manageable construction project that can be built on time and within the budget. The Agency has hired a CM/GC on many prior occasions with success.

The Agency selected CSHQA, Inc. to provide design services for the Project. During preconstruction, the CM/GC collaborates with the design team and Agency to review and modify the design as needed to improve constructability, estimate costs of the design, and develop a logistics and phasing plan for construction. Around the 95% design stage, the Board will oversee amendment of the contract to provide for the Guaranteed Maximum Price (GMP) for construction. The GMP is a key benefit of all CM/GC contracts: the contractor guarantees the construction price – making the contractor "at risk" if the price goes higher. At that point, the CM (Construction Manager) becomes the GC (General Contractor) to construct the project.

Hiring the CM/GC:

The Agency issued a Request for Qualifications (RFQ) on February 28, 2024, inviting licensed CM/GC companies to submit Statements of Qualifications (SOQ). The requisite public notice was published in the *Idaho Statesman* newspaper on February 28 and March 6. Notice was also sent to the plan room at the Idaho Association of General Contractors as well as several general contractors holding the necessary Construction Manager license. A pre-proposal meeting was held on March 6.

Three companies submitted qualifications by the April 11, 2024 submission deadline: Andersen Construction of Idaho, LLC; McAlvain Construction, Inc.; and Wright Brothers, The Building Company, Eagle LLC.

The Agency convened an evaluation panel of Agency staff and the project consultant. The three SOQs received were evaluated first for compliance with the technical requirements as prescribed in the RFQ – all firms met these requirements. They were then ranked based on qualifications and demonstrated competence. Each firm was evaluated on the criteria specified in the RFQ: company profile, CM/GC project team, experience and past performance, and project management. Each of these companies is to be commended for the quality of their proposals and the expertise and competency of their work as evidenced in their SOQs.

The panel members unanimously ranked *McAlvain Construction, Inc.* as the top-ranked firm. The panel concluded that McAlvain Construction exhibits a well-orchestrated team approach that is built on a depth of CM/GC experience. The effective construction management approach presented by the company, coupled with their depth of resources, proposed team, influence within the local subcontracting community, and recent experience reconstructing three similar sections of the Boise City Canal, offers the Agency schedule and budget certainty in today's construction market. McAlvain Construction's can-do attitude is bolstered by strong communication methods.

In short, McAlvain Construction, Inc. offers a highly qualified team backed by a sophisticated, local construction company that is dedicated to giving the Bannock Street Streetscape Improvements Project the company's full attention.

Please see Attachment C for the panel's scoring of the companies. In accordance with Idaho Code § 67-2320(2), securing the services of the CM/GC firm will involve negotiating with the highest ranked firm for a contract to perform the services at a reasonable and fair price. If the Agency is unable to negotiate a satisfactory contract, the Agency may undertake negotiations with the next highest ranked firm for a contract at a reasonable and fair price. State statute establishes this process so that the public receives a fair price for professional services.

Fiscal Notes:

The CM/GC agreement shall define the terms of the contractual relationship between the Agency and the chosen firm, including the hourly rates charged for the CM/GC services. The approved FY2024 budget and forecasted FY2025 budget include sufficient funding for this Project.

Staff Recommendation:

Adopt Resolution 1873 approving the CM/GC RFQ ranking for the Bannock Street Streetscape Improvements, 12th to 16th Streets Project and authorizing the Executive Director to negotiate and execute a CM/GC Agreement in accordance with that ranking and the requirements set forth by state statute.

Suggested Motion:

I move to adopt Resolution 1873 approving the CM/GC RFQ ranking for the Bannock Street Streetscape Improvements, 12th to 16th Streets Project and authorizing the Executive Director to negotiate and execute a CM/GC Agreement.

RESOLUTION NO. 1873

BY THE BOARD OF COMMISSIONERS OF THE URBAN RENEWAL AGENCY OF BOISE CITY, IDAHO:

A RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE URBAN RENEWAL AGENCY OF BOISE CITY, IDAHO, APPROVING THE RANKING THE AGENCY'S REQUEST FOR QUALIFICATIONS FOR A FOR CONSTRUCTION MANAGER/GENERAL CONTRACTOR (CM/GC) FOR THE BANNOCK STREET STREETSCAPE IMPROVEMENTS, 12TH TO 16TH STREETS PROJECT IN ACCORDANCE WITH IDAHO CODE SECTION 67-2320: AUTHORIZING THE AGENCY EXECUTIVE DIRECTOR TO NEGOTIATE THE CM/GC AGREEMENT BASED ON THE RANKING AND TO EXECUTE THE AGREEMENT AND ANY OTHER NECESSARY DOCUMENTS OR AGREEMENTS. SUBJECT TO CERTAIN CONTINGENCIES: AUTHORIZING THE EXPENDITURE OF FUNDS; AND PROVIDING AN EFFECTIVE DATE.

THIS RESOLUTION is made on the date hereinafter set forth by the Urban Renewal Agency of Boise City, Idaho, an independent public body, corporate and politic, authorized under the authority of the Idaho Urban Renewal Law of 1965, as amended, Chapter 20, Title 50, Idaho Code, and the Local Economic Development Act, as amended and supplemented, Chapter 29, Title 50, Idaho Code (collectively the "Act"), as a duly created and functioning urban renewal agency for Boise City, Idaho (hereinafter referred to as the "Agency").

WHEREAS, the City Council of the City of Boise City, Idaho (the "City"), after notice duly published, conducted a public hearing on the Westside Downtown Urban Renewal Plan (the "Westside Plan"), and following said public hearing, the City adopted its Ordinance No. 6108 on December 4, 2001, approving the Westside Plan and making certain findings; and,

WHEREAS, the City, after notice duly published, conducted a public hearing on the First Amendment to the Urban Renewal Plan Westside Downtown Urban Renewal Project ("First Amendment to the Westside Plan"); and,

WHEREAS, following said public hearing, the City adopted its Ordinance 45-20 on December 1, 2020, annexing two (2) geographical areas adjacent and contiguous to the northern boundary of the Westside Project Area into the existing revenue allocation area and making certain findings; and,

WHEREAS, in cooperation with the City of Boise and the Ada County Highway District, the Agency seeks to make certain transformative improvements and enhancements to certain portions of Bannock Street between 12th and 16th Streets, including: construction of streetscape improvements, pavement reconstruction, added traffic signals at the intersections of 15th and 16th streets, stormwater modifications, and replacement of a canal structure, all in an effort to contribute as a catalyst to economic development and downtown reinvestment by private entities; and,

WHEREAS, due to the extensive program of improvements associated with the Project, the complexities inherent to streetscape construction in a downtown environment, the level of pedestrian, bicycle and vehicle traffic in the area, and the proximity to Meadow Gold Dairy, Fire

Station 5, and St. Paul Baptist Church, the Agency determined that the best approach for construction of the improvements is to hire a Construction Manager/General Contractor ("CM/GC"); and,

WHEREAS, Idaho Code § 54-4511 allows for public agency utilization of CM/GC services upon selection of the CM/GC in accordance with Idaho Code § 67-2320; and,

WHEREAS, the Agency issued a Request for Qualifications ("RFQ") inviting properly licensed CM/GC firms interested in managing the construction of the Project to submit Statements of Qualifications ("SOQ"), in accordance with the criteria and procedures set forth in the RFQ; and,

WHEREAS, the Agency published the requisite public notice of the RFQ in the *Idaho Statesman* newspaper on February 28 and March 6, 2024; and,

WHEREAS, the SOQ submissions were due to the Agency on April 11, 2024, by 3:00 pm, and the Agency received three (3) SOQs from the following firms: Andersen Construction of Idaho LLC; McAlvain Construction, Inc.; and Wright Brothers, The Building Company, Eagle LLC; and,

WHEREAS, the Agency examined the three (3) SOQs and, based on the information provided, found that each firm gave sufficient information regarding the pre-qualification criteria stated in the RFQ and that each firm held the requisite Construction Manager License and correct Public Works License, and,

WHEREAS, the SOQs were evaluated for compliance with the technical requirements as prescribed in the RFQ and were scored and ranked on the bases of qualifications and demonstrated competence by a four-person panel; and,

WHEREAS, following the evaluation of the SOQs, the Agency ranked the SOQs as follows:

- 1. McAlvain Construction, Inc.
- 2. Andersen Construction of Idaho LLC
- 3. Wright Brothers, The Building Company, Eagle LLC; and,

WHEREAS, the panel's unanimous scoring showed that McAlvain Construction, Inc. was the best qualified and highest ranked proposer because:

- McAlvain Construction, Inc. exhibits a well-orchestrated team approach built on a depth of CM/GC experience;
- McAlvain Construction, Inc.'s work with the Agency on projects, including the Grove Plaza Renovation and Rebuild 11th Street Blocks, is commendable;
- McAlvain Construction, Inc. exhibits a solid pre-construction strategy and sophisticated project tracking processes;
- McAlvain Construction, Inc.'s effective construction management approach, coupled with its depth of resources, influence within the local subcontracting community, and recent experience reconstructing three similar sections of the Boise City Canal, offers the Agency schedule and budget certainty in today's construction market;

- McAlvain Construction, Inc.'s can-do attitude is bolstered by strong communication methods; and,
- McAlvain Construction, Inc. offers a highly qualified team backed by an experienced, local construction company that is dedicated to giving the Project the company's full attention.

WHEREAS, for these reasons, Agency is recommending that the Agency Board approve the SOQ ranking for the Project in accordance with Idaho Code § 67-2320(2); and,

WHEREAS, the Agency Board of Commissioners finds it in the best public interest to approve the ranking for its RFQ – CM/GC Bannock Street Streetscape Improvements, 12th to 16th Streets Project and to authorize the Agency Executive Director to negotiate and execute a Construction Manager/General Contractor Agreement in accordance with that ranking and the requirements set forth in Idaho Code § 67-2320.

NOW, THEREFORE, BE IT RESOLVED BY THE MEMBERS OF THE BOARD OF COMMISSIONERS OF THE URBAN RENEWAL AGENCY OF BOISE CITY, IDAHO, AS FOLLOWS:

<u>Section 1</u>: That the above statements are true and correct.

<u>Section 2</u>: That the Agency Board affirms the following ranking for the RFQ – CM/GC Bannock Street Streetscape Improvements, 12th to 16th Streets Project:

- 1. McAlvain Construction, Inc.
- 2. Andersen Construction of Idaho LLC
- 3. Wright Brothers, The Building Company, Eagle LLC

<u>Section 3</u>: That the Agency Board authorizes the Agency Executive Director to negotiate a Construction Manager/General Contractor Agreement with the top-ranked proposer, McAlvain Construction, Inc., for the Bannock Street Streetscape Improvements, 12th to 16th Streets Project, and in the event an agreement cannot be reached, that the Agency Executive Director is authorized to negotiate the agreement with the next ranked proposer, and so forth, in accordance with Idaho Code § 67-2320.

<u>Section 4</u>: That the Board authorizes the Agency Executive Director, upon successful negotiations, to finalize, sign, and enter into the Construction Manager/General Contractor Agreement consistent with the Board's stated instructions at the May 13, 2024, Agency Board Meeting; and further, authorizes the Agency Executive Director to execute all necessary documents required to implement the actions contemplated by the Agreement, subject to representations by Agency legal counsel that all necessary conditions have occurred; and further, the Agency Executive Director is authorized to perform any and all other duties required pursuant to the Construction Manager/General Contractor Agreement, including the expenditure of funds.

<u>Section 5</u>: That this Resolution shall be in full force and effect immediately upon its adoption and approval.

PASSED AND ADOPTED by the Urban Renewal Agency of Boise City, Idaho, on May 13, 2024. Signed by the Chair of the Agency Board of Commissioners and attested by the Secretary to the Agency Board of Commissioners on May 13, 2024.

URBAN RENEWAL AGENCY OF BOISE CITY		
DocuSigned by:		
Ву:	Commissioner Latonia Haney Leith	
Latonia Haney Keith, Chair		

ATTEST:

By: <u>Commissioner Lauren</u> McLean Lauren McLean, Secretary



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 <u>electronically</u> prior to <u>3:00 p.m. local time on March 21, 2024</u> at this email address: <u>bids@ccdcboise.com</u>. 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.

athy Wanner

Kathy Wanner Contracts Manager



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

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: <u>bids@ccdcboise.com</u>

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 <u>not</u> 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.
- 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. <u>The Proposer shall indicate within their proposal that they certify that they have the</u> <u>bonding capacity to meet the requirements of this RFQ.</u>

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.

Meeting ID: 810 4745 2689 Passcode: 931499

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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 <u>via email</u> 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: <u>15 Points</u>

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-ofway 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 : <u>15 Points</u>

i. <u>Preconstruction Services</u> 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. 9 th Street, Suite 501
	Boise, Idaho 83702

FROM:	
Company Name:	
Mailing Address:	
Physical Address:	
Telephone:	Fax:
E-mail Address:	
Company officer res	ponsible to CCDC for CM/GC services contemplated by this RFQ:
SIGNATURE: X	,
Print Name and Title:	

License Information: Idaho Pub	lic Works Contractor License #
Idaho Public Works Constr	ruction 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

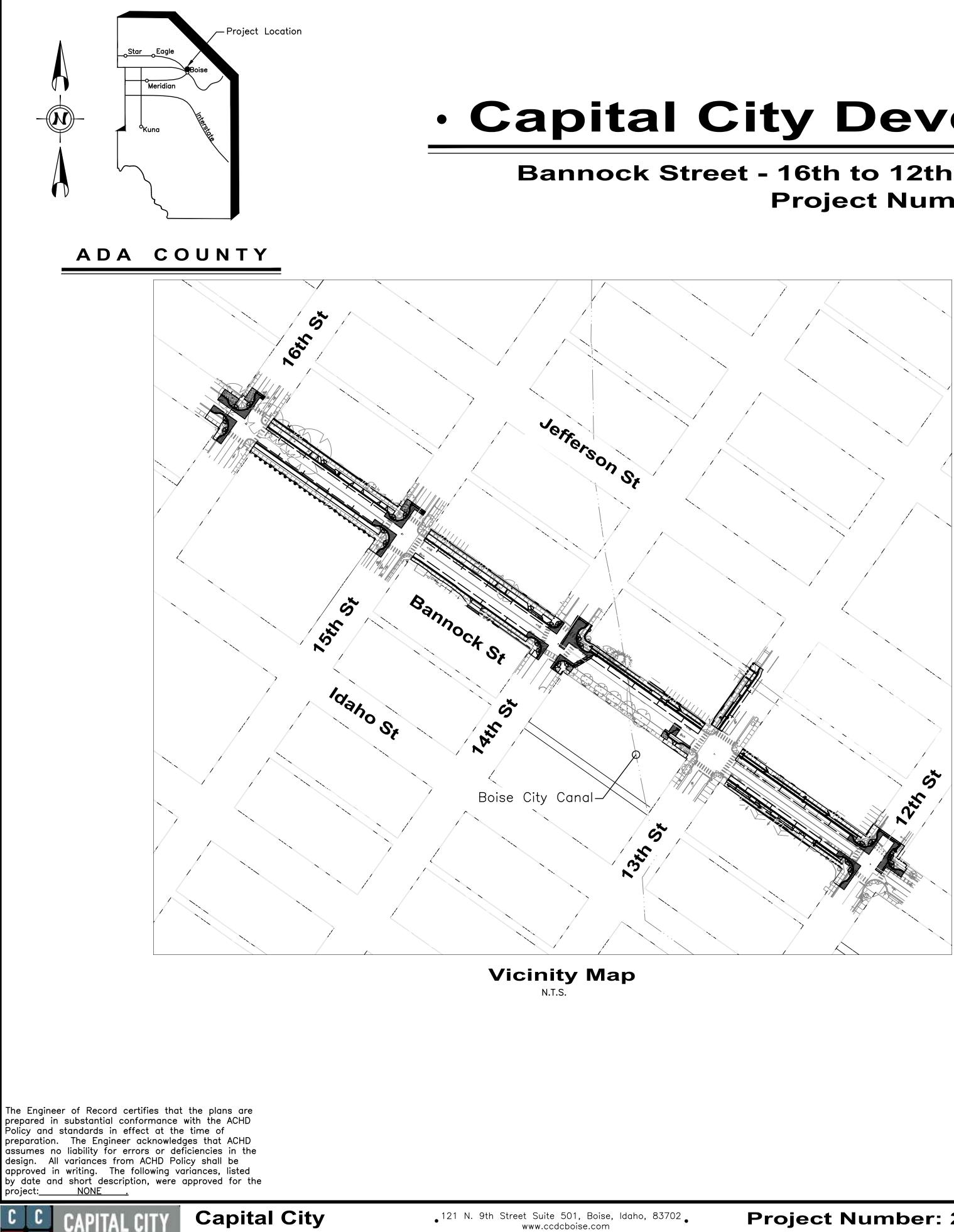
REQUIRED WAIVER & RELEASE

(REQUIRED FOR SUBMISSION)

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 - 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:				



Development Corp

EVELOPMENT COR

• Capital City Development Corp.

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

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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-		
C3.02	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 16+80 TO 21-		
C3.03	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 21+80 TO 26-		
C3.04	BANNOCK ST UTILITY AND REMOVAL PLAN STA. 26+80 TO 31-		
C3.05	13TH STREET UTILITY AND REMOVAL PLAN STA. 50+60 TO 55-		
C4.01	BANNOCK ST PLAN AND PROFILE STA. 11+80 TO 16+80		
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C4.04	BANNOCK ST PLAN AND PROFILE STA. 26+80 TO 31+80		
C4.05	13TH ST PLAN AND PROFILE STA. 50+60 TO 55+60		
C5.01	INTERSECTION GRADING PLAN 16TH		
C5.02	INTERSECTION GRADING PLAN 15TH		
C5.03	INTERSECTION GRADING PLAN 14TH		
C5.04	INTERSECTION GRADING PLAN 12TH		
C5.05	DRIVEWAY DETIALS		
C5.06	DRIVEWAY DETIALS		
C5.07	DRIVEWAY DETIALS		
C5.08	DRIVEWAY DETIALS		
C6.01	BANNOCK ST STORM WATER PLAN STA. 11+80 TO 16+80		
C6.02	BANNOCK ST STORM WATER PLAN STA. 16+80 TO 21+80		
C6.03	BANNOCK ST STORM WATER PLAN STA. 21+80 TO 26+80		
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Project Number: 23056

Project Name: Bannock Street - 16th to 12th

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Streetscape Improvements

60%

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20' Flow Line Directional Arrow			
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=	New Curb, Gutter, Sidewalk, and Approach	Inlet Protection	
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CAPITAL CITY

EVELOPMENT COR

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

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
 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

• DETAIL TITLE • SIGNATURES • **Civil Notes** Drawn By:HDR Date: 12/23 Date: 12/23

Project Number: 23056

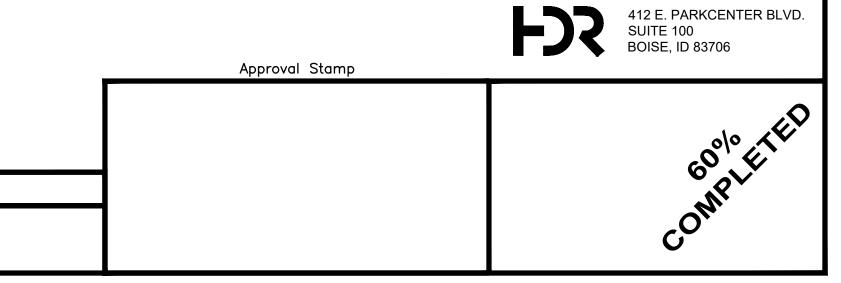
Project Name: Bannock Street - 16th to 12th

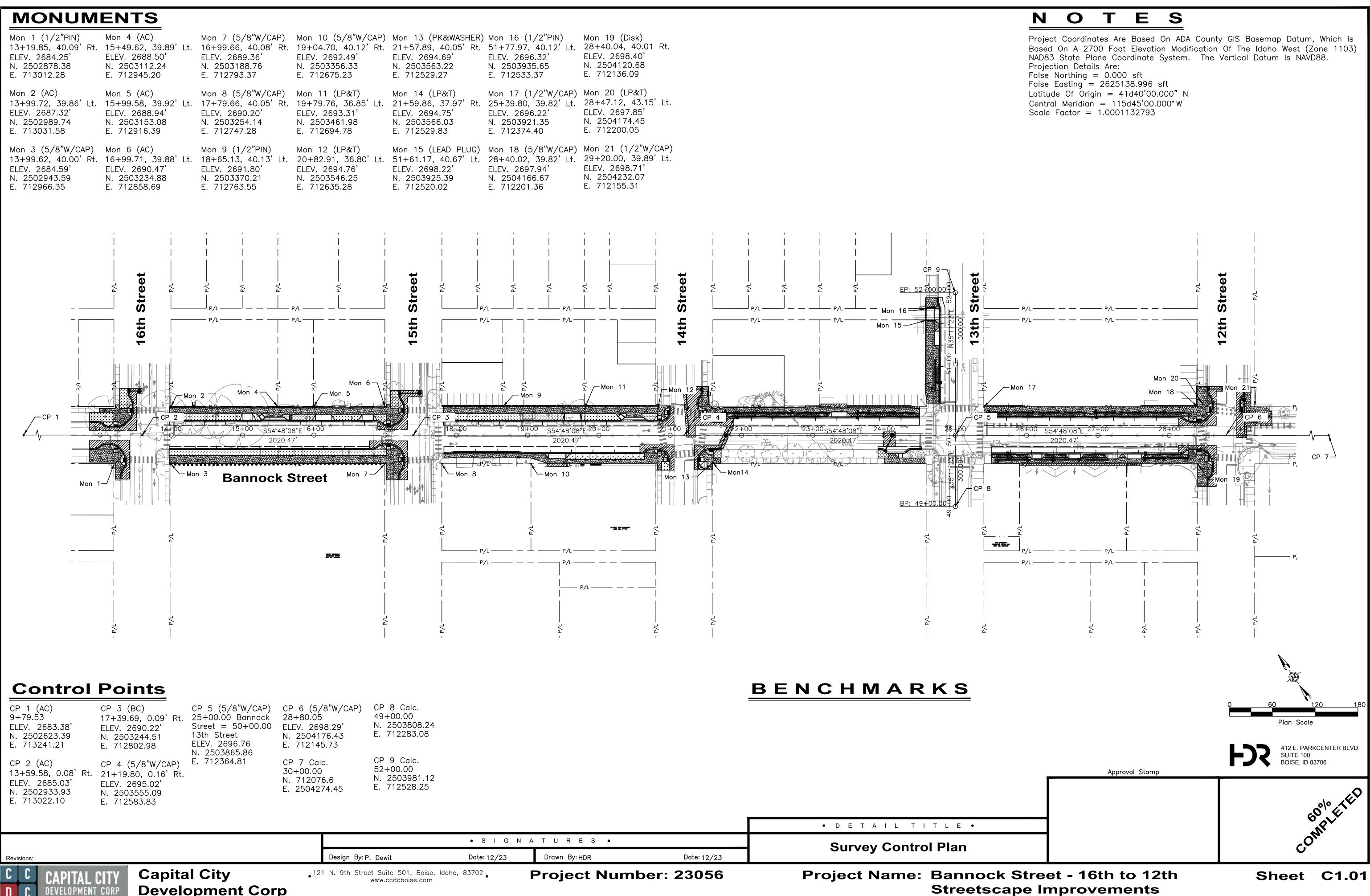
GENERAL DEMOLITION NOTES

- 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.

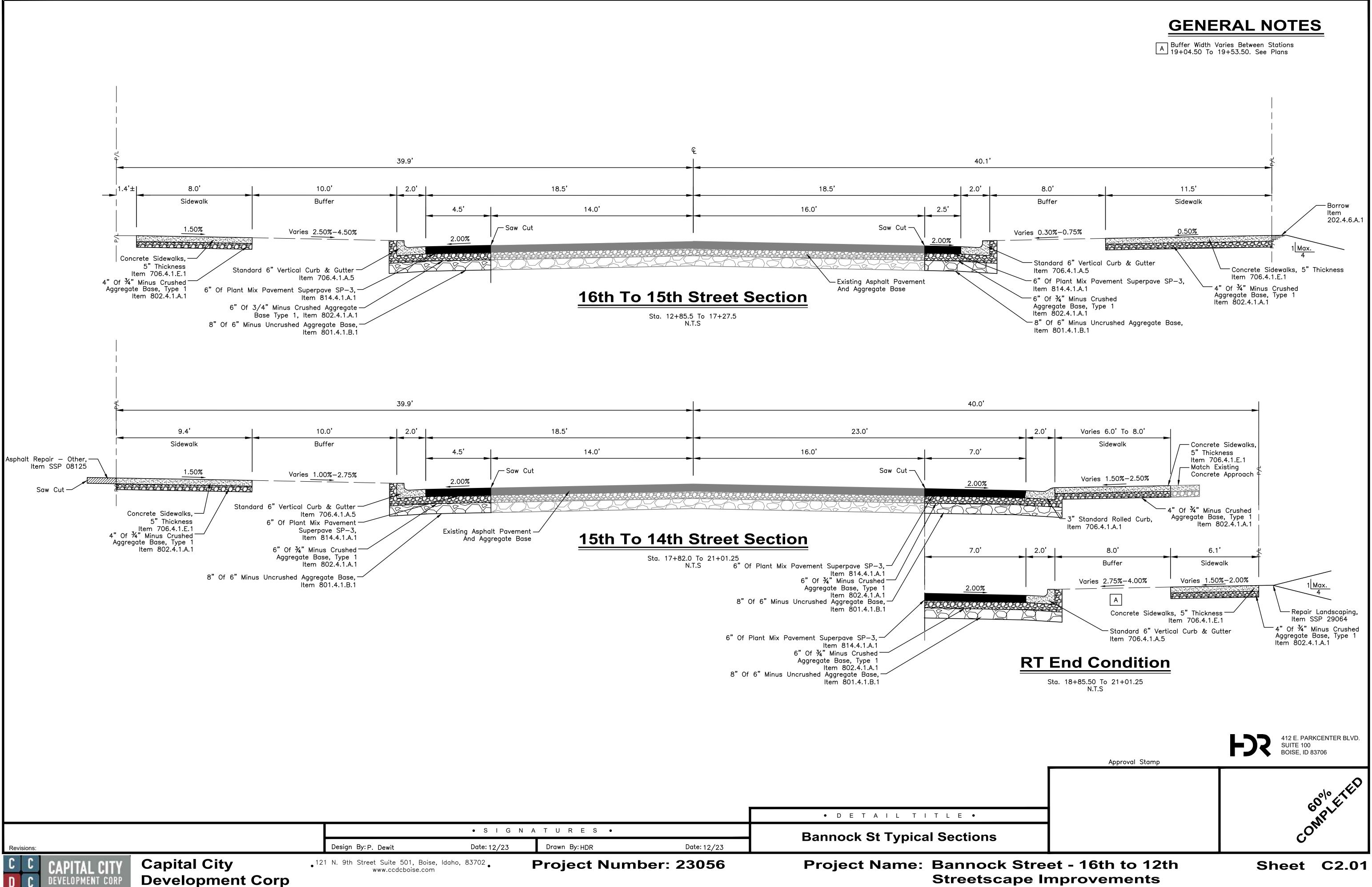




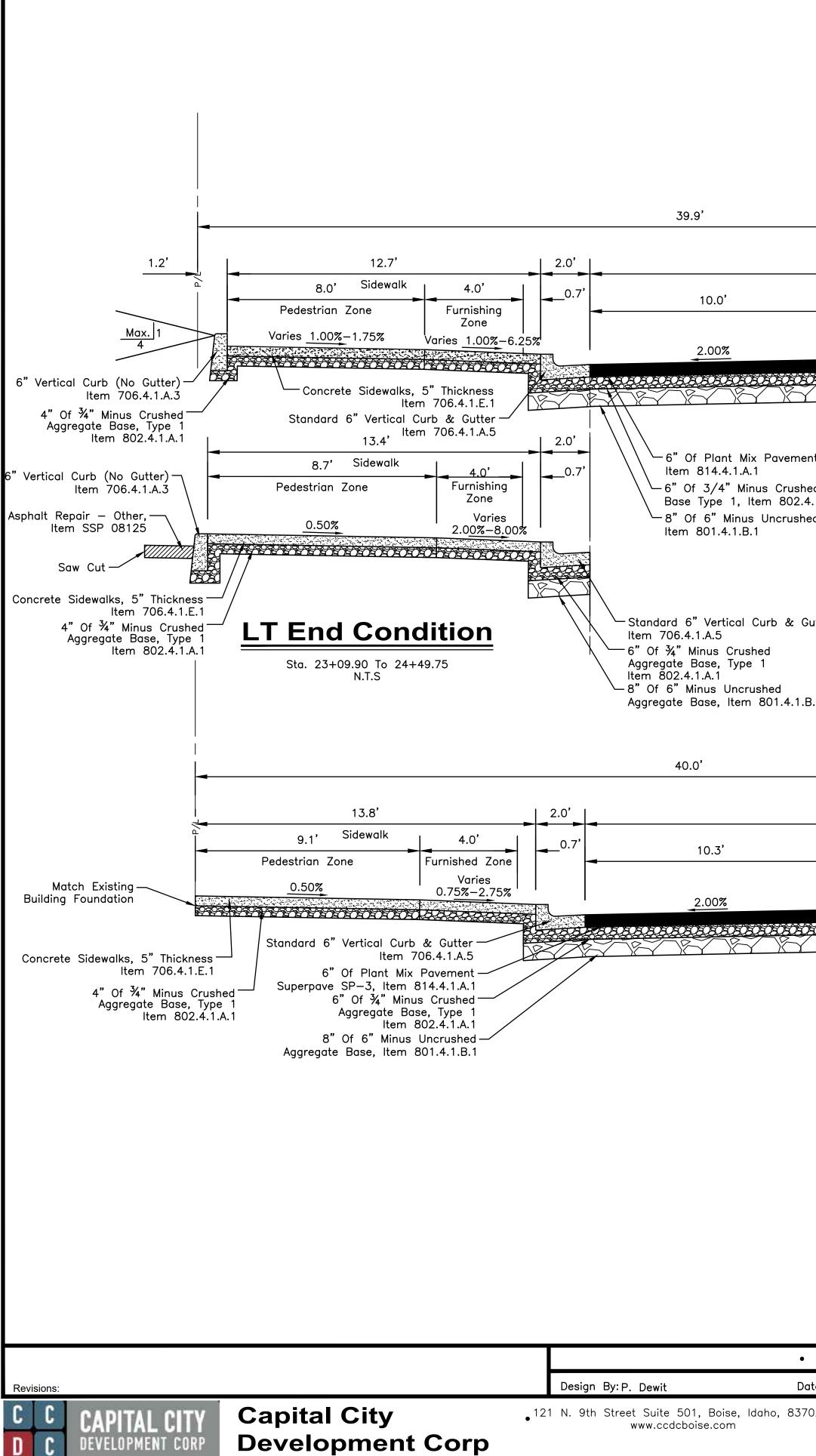
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Date: 12/23	Drawn By:HDR	Date: 12/23	
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			• DETAIL TITLE •

Streetscape Improvements

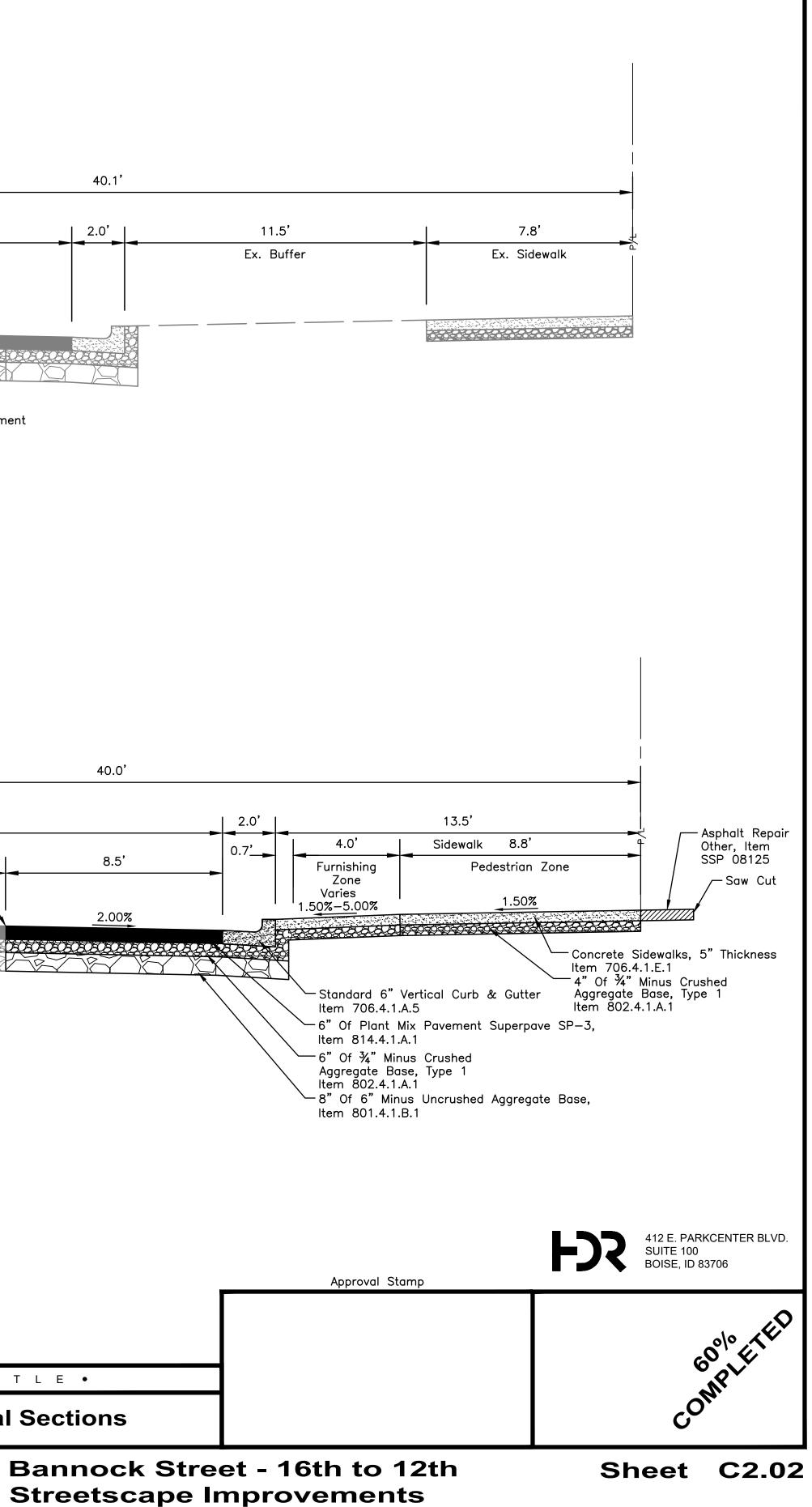


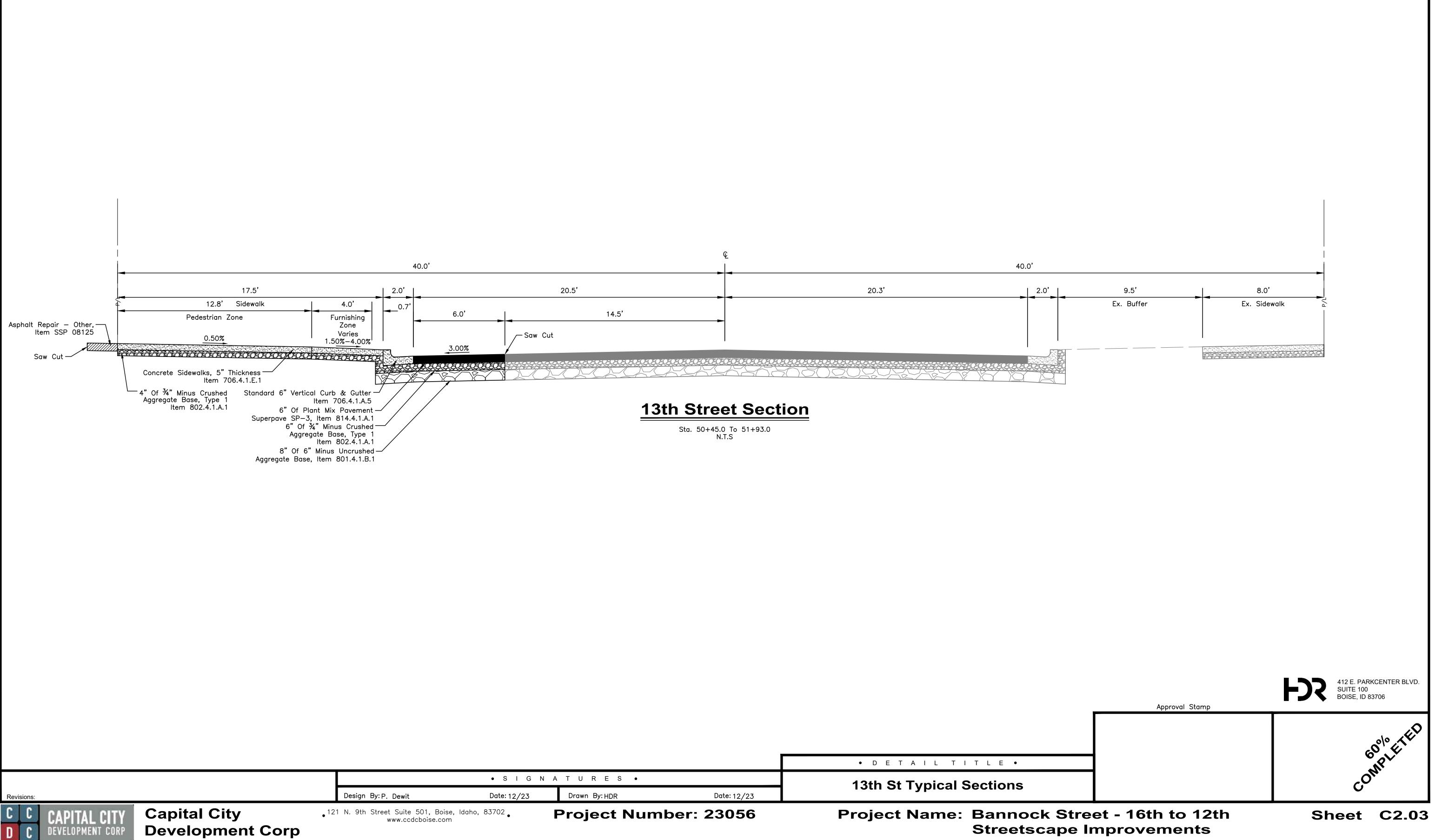
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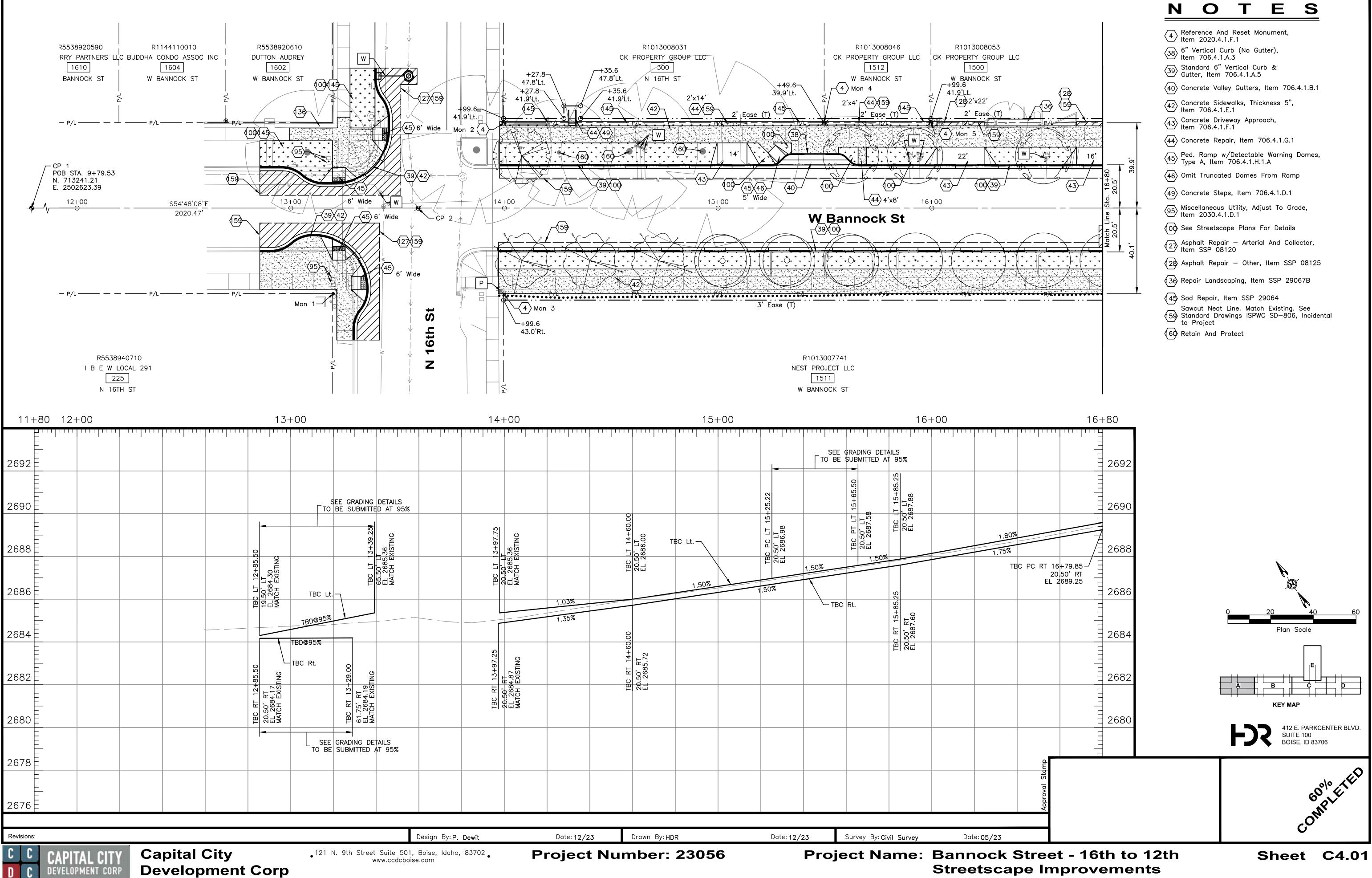
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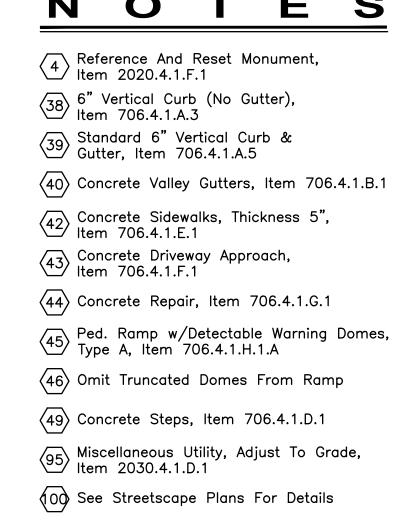
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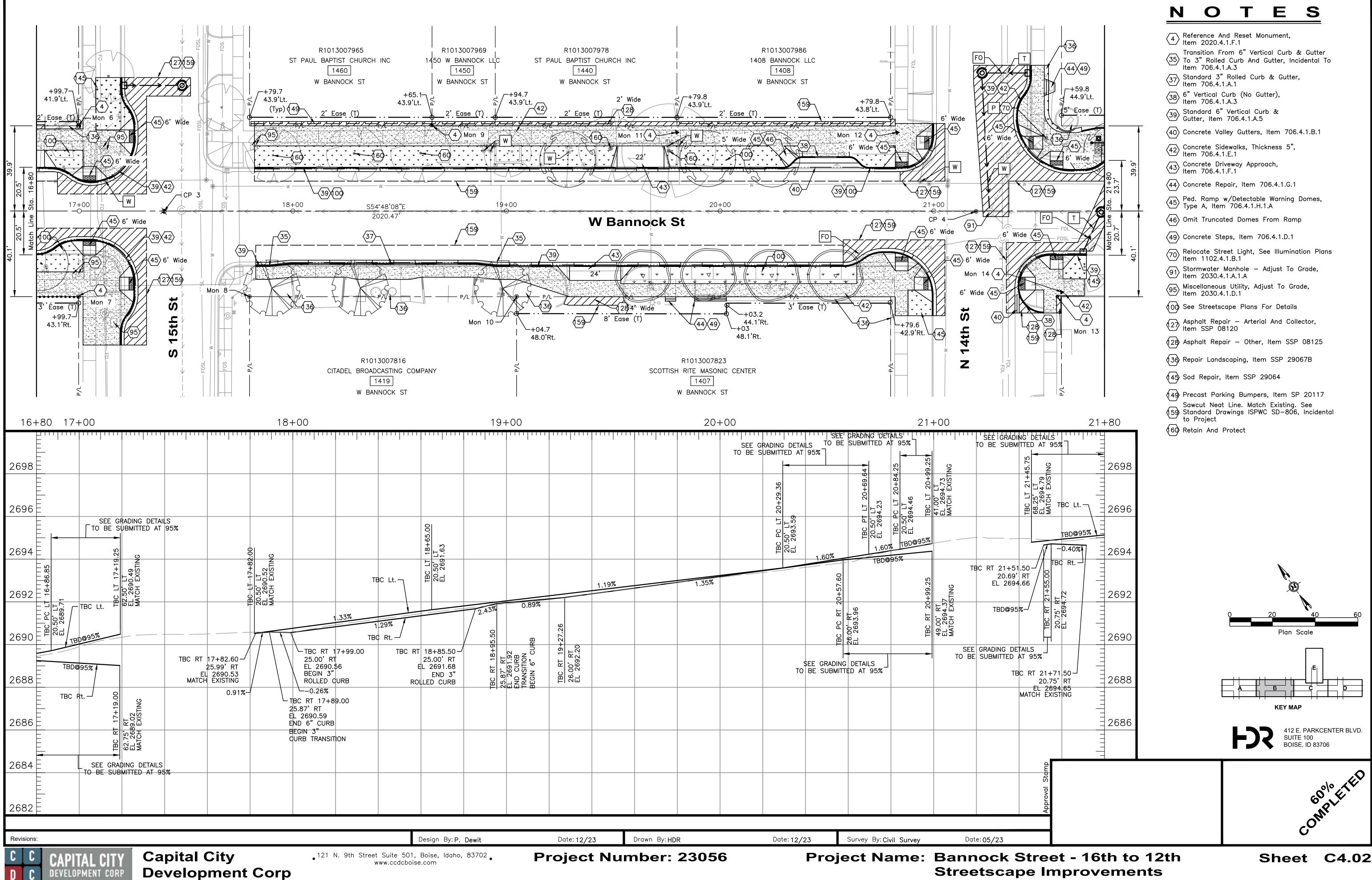




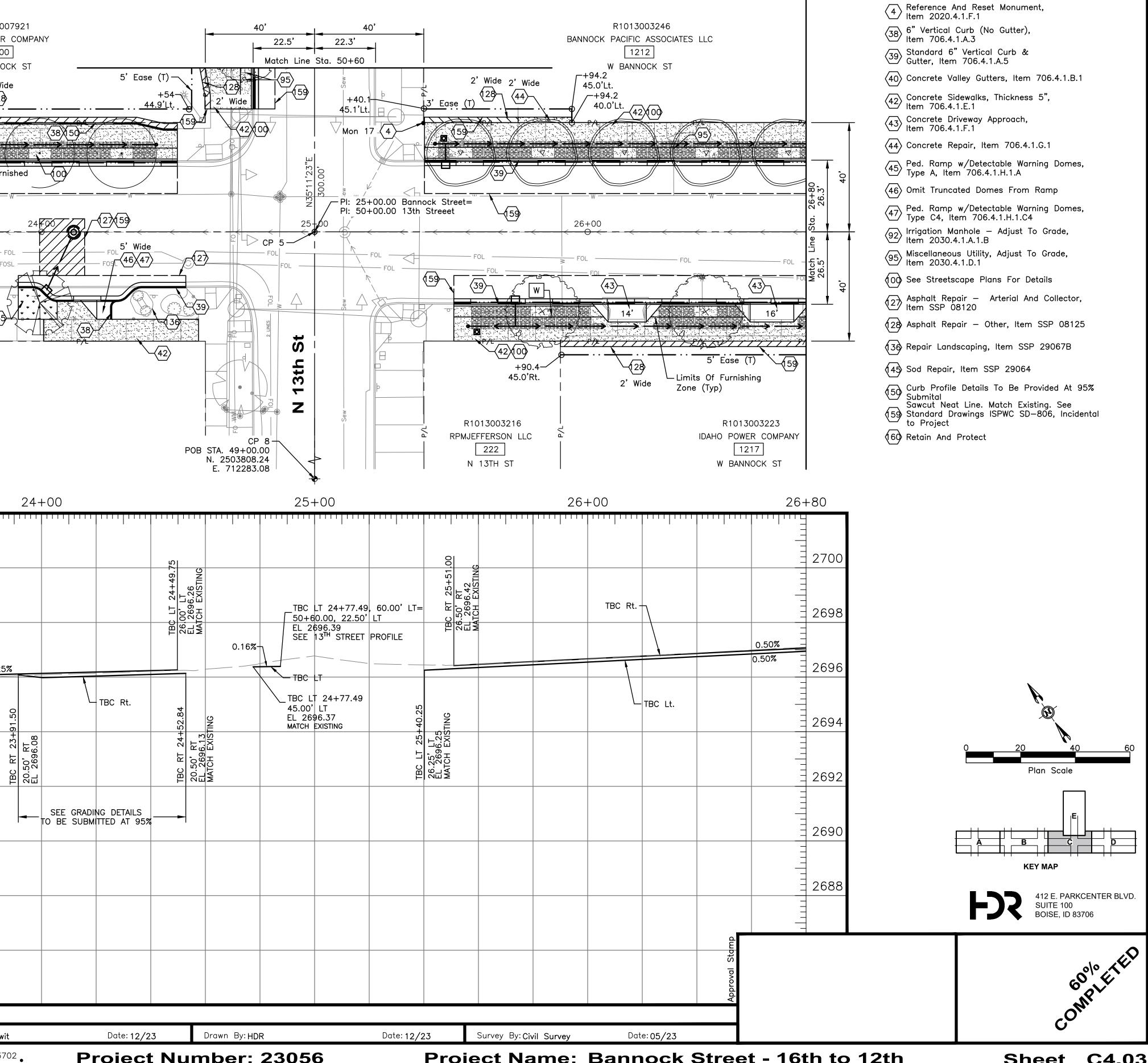
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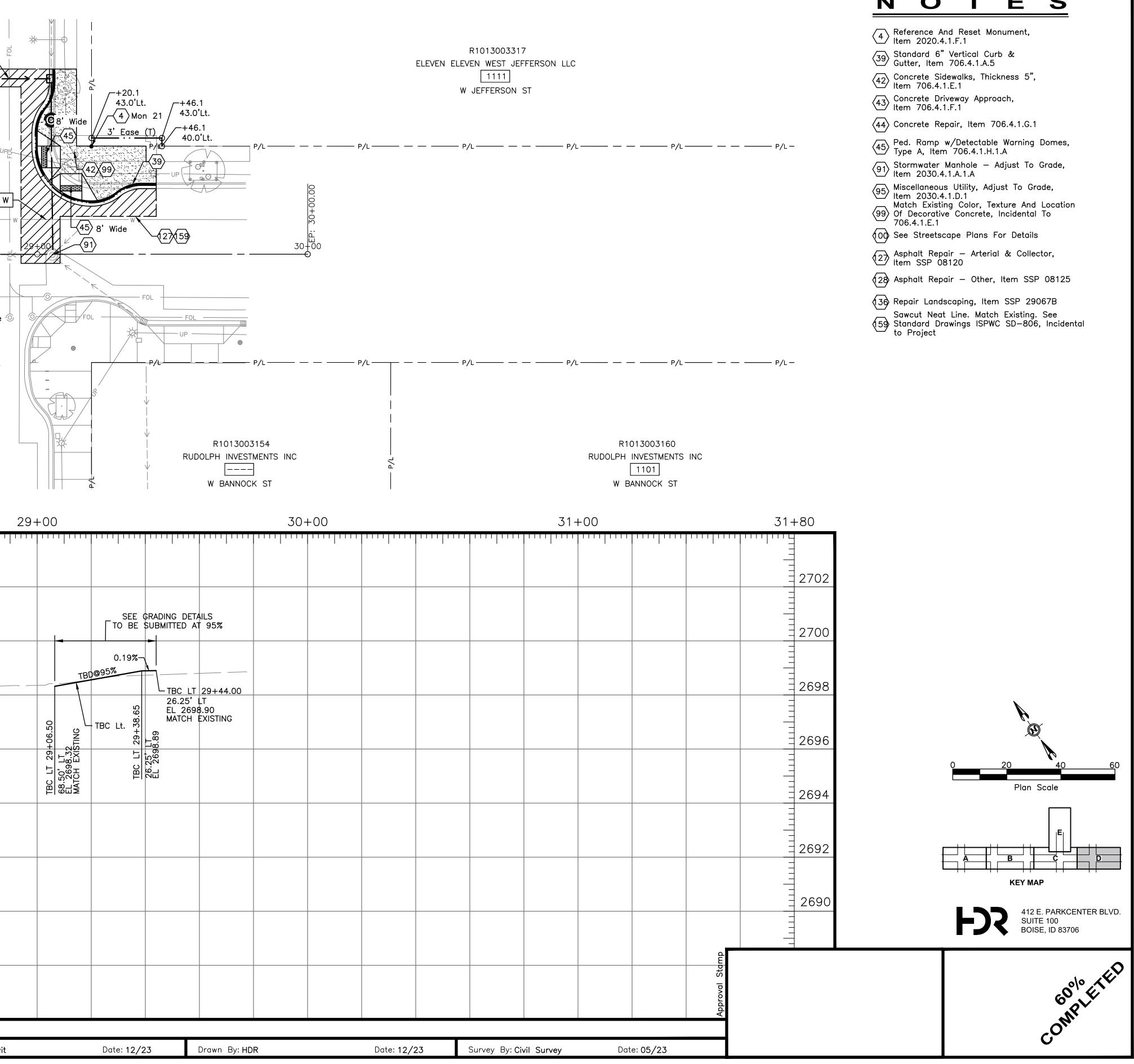


Project Name: Bannock Street - 16th to 12th **Streetscape Improvements**

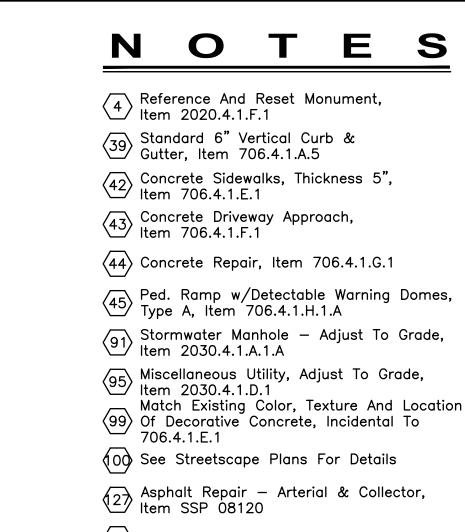
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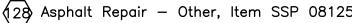
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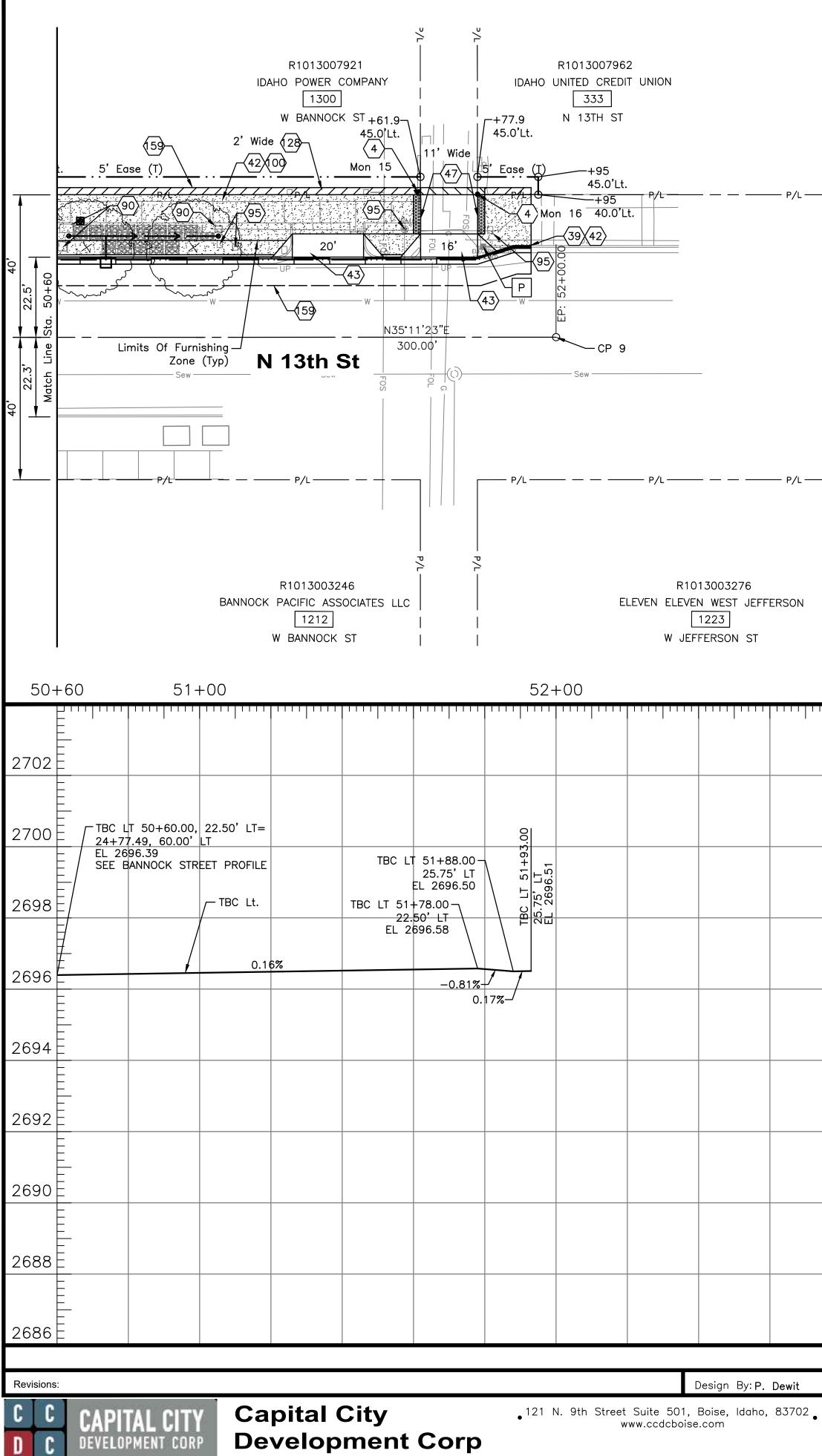


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Project Name: Bannock Street - 16th to 12th **Streetscape Improvements**



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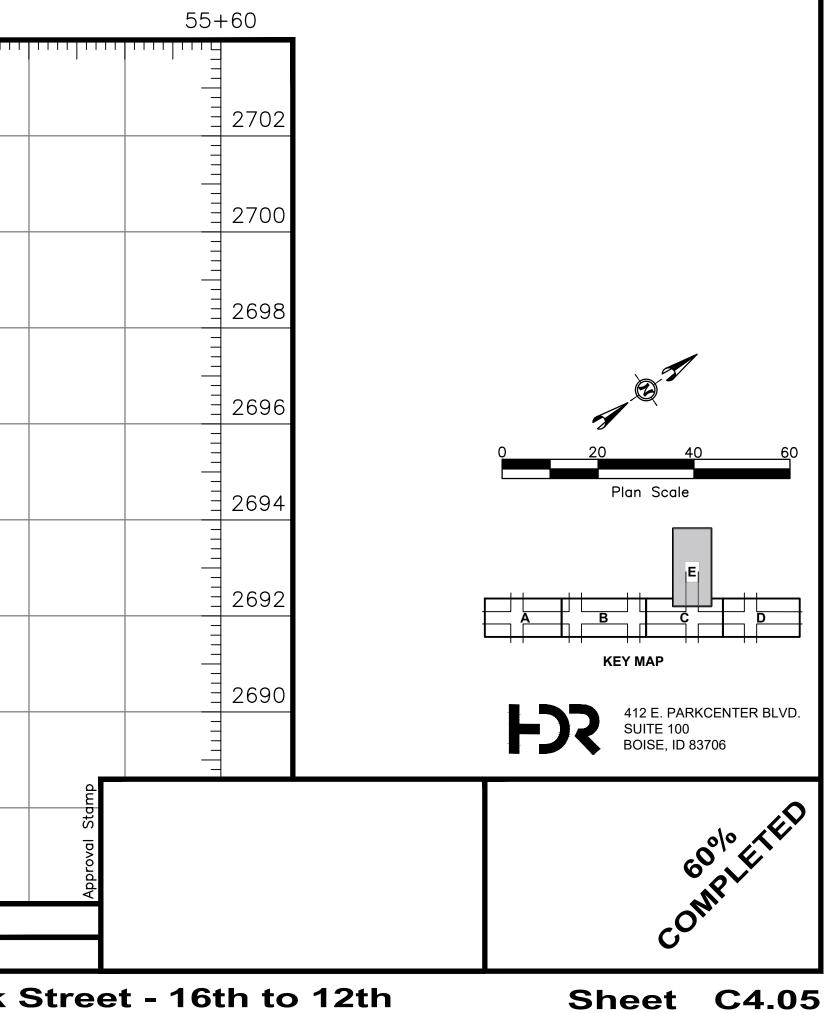
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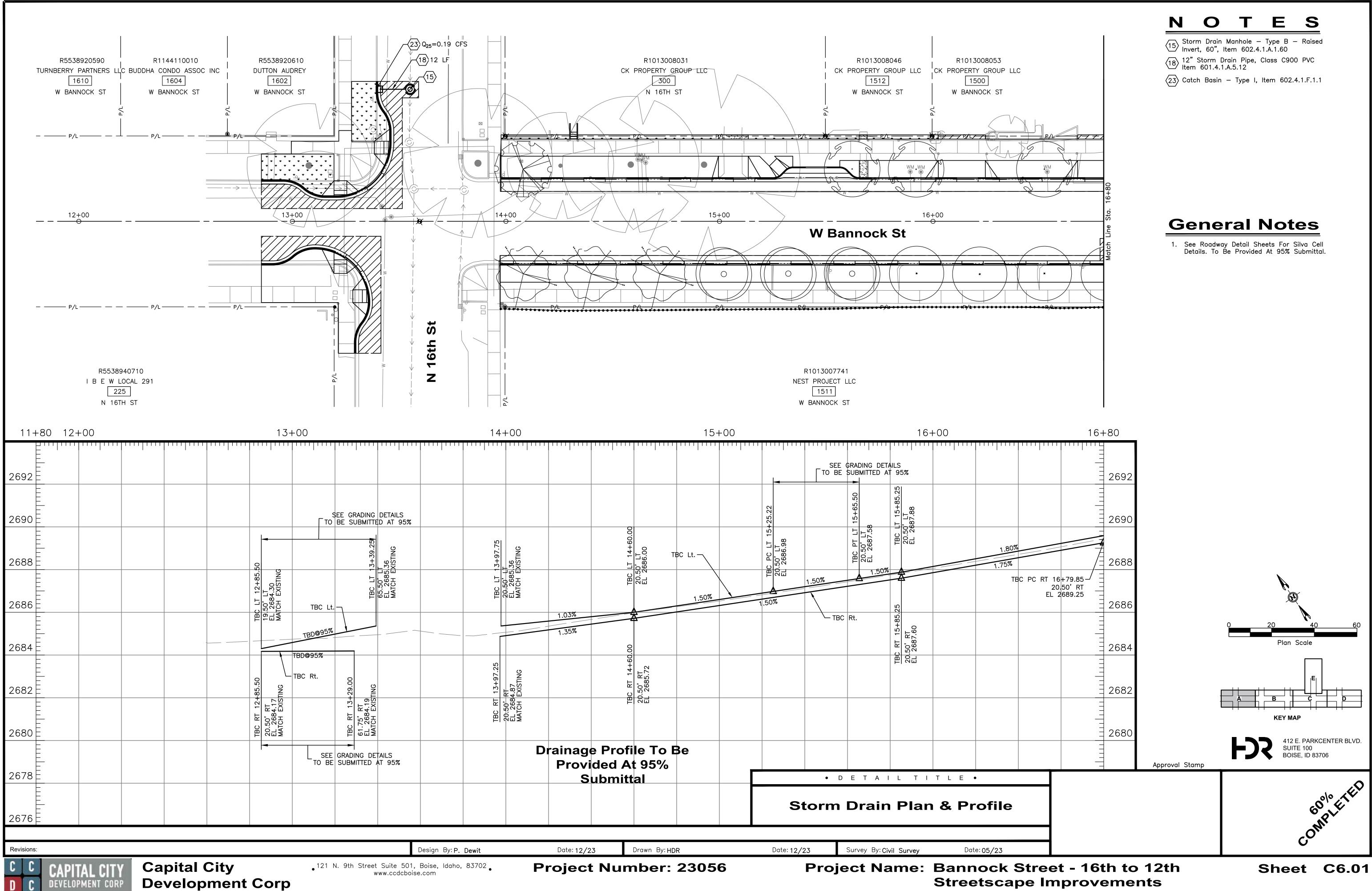
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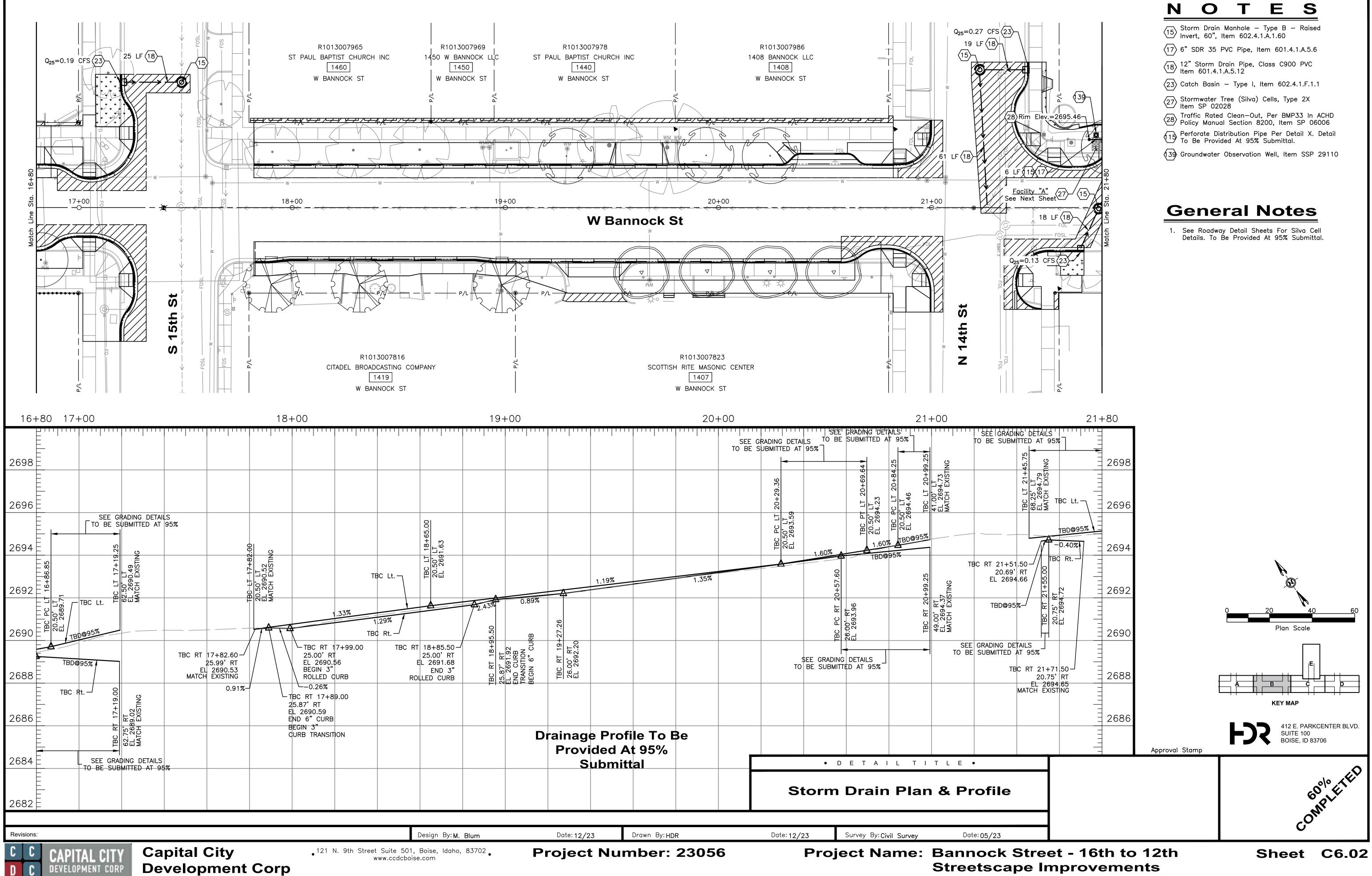
- A Reference And Reset Monument, Item 2020.4.1.F.1
- (39) Standard 6" Vertical Curb & Gutter, Item 706.4.1.A.5
- (42) Concrete Sidewalks, Thickness 5", Item 706.4.1.E.1
- (43) Concrete Driveway Approach, Item 706.4.1.F.1
- 47 Detectable Warning Devices Retrofit, Item SSP 07015
- Retain And Protect Existing Signal (90) 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
- (28) Asphalt Repair Other, Item SSP 08125
- Sawcut Neat Line. Match Existing. See Standard Drawings ISPWC SD-806, Incidental to Project



Streetscape Improvements

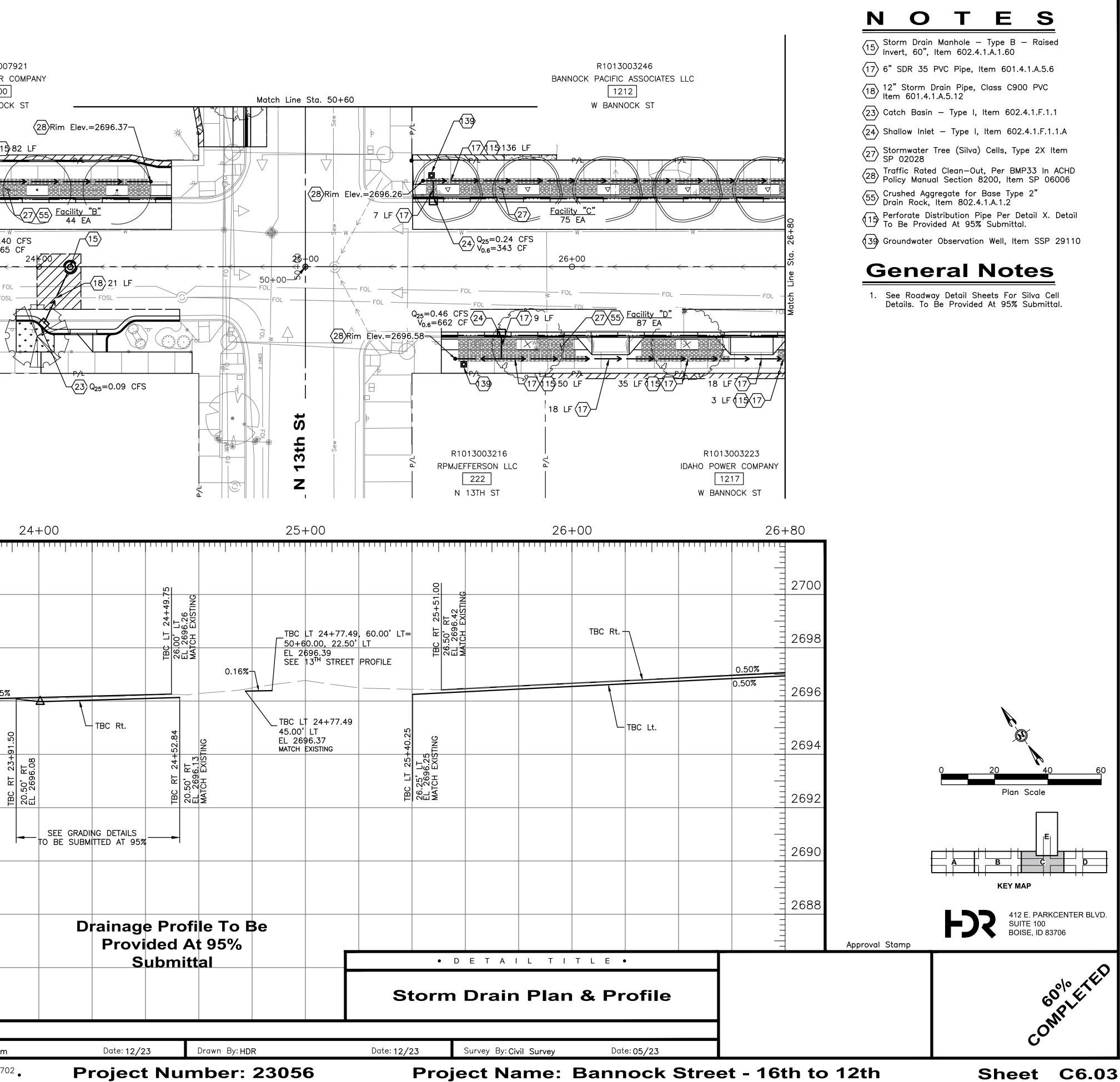


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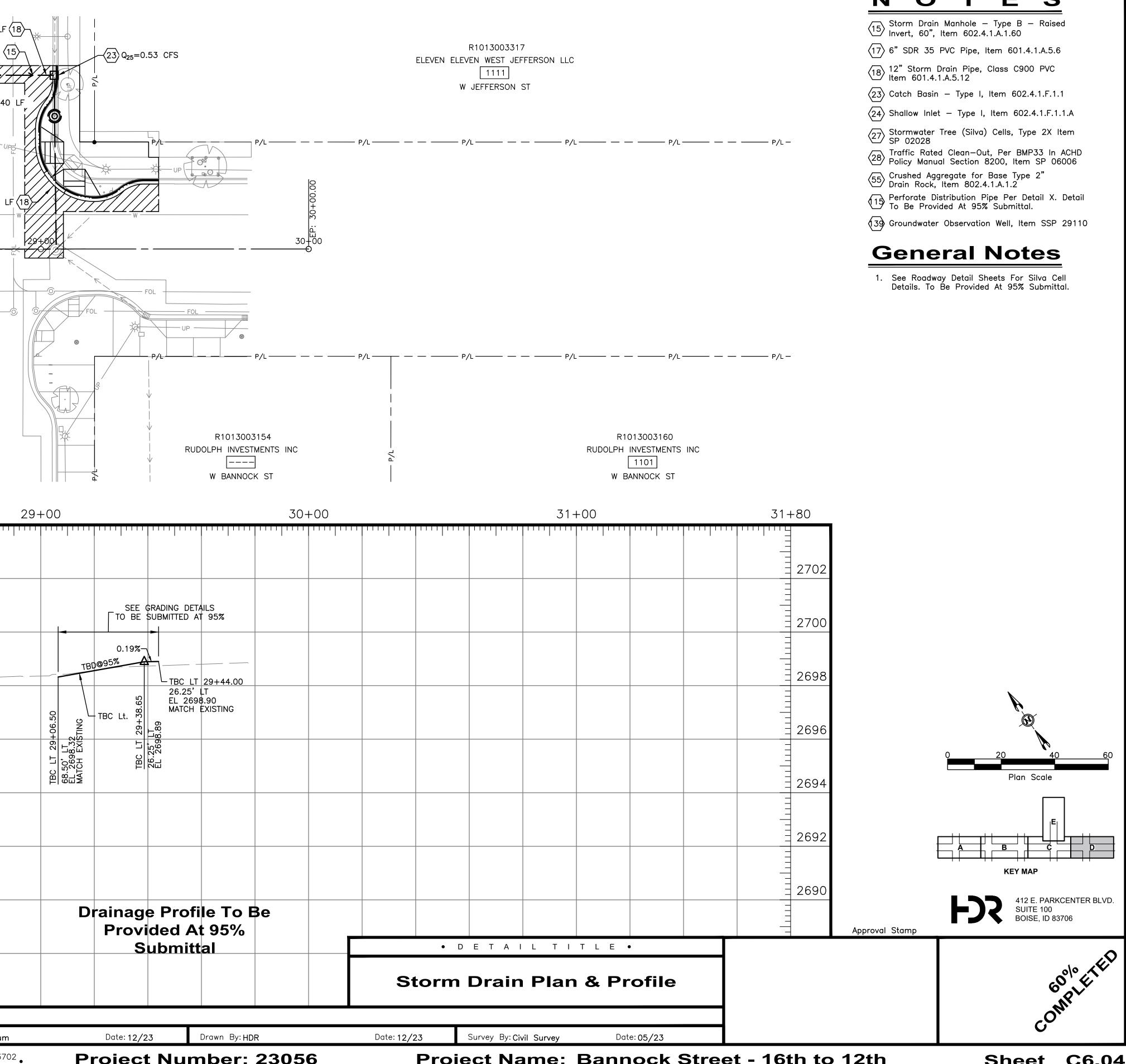
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V0.6=563 CF 22+00 FOL FOL FOL P/L P/L	FOL FOL FOSL FOSL FOSL FOSL FOSL FOSL FO		¹ 24 Q ₂₅ =0.40 CFS 24 KOC Bannock St FOSL FOSL FOSL FOSL P/L	18 21 LF FOSL FOSL FOSL FOSL FOSL FOSL FOSL FO	
21+80 22+00		R1013007860 DEAN DAIRY FLUID LLC [1322] W IDAHO ST 23+00	24+0	0	25+00
2700 II IIII IIII IIIII IIIIIIIIIIIIIIII	TBC LT 22+60.00 26.00' LT EL 2695.75	TBC LT 23+20.00 EL 2695.93		TBC LT 24+49.75 26.00' LT EL 2696.26 MATCH EXISTING	TBC LT 24+7 50+60.00, 22 EL 2696.39 SEE 13 TH STR
2696 = 0.75% 2694 = 0.75% 2694 = 0.75% 2692 = 0.75%		0.30%	0.25% TBC RT 23+91.50 20.50' RT EL 2696.08	TBC RT 24+52.84 20.50' RT EL 2696.13 MATCH EXISTING	TBC LT 24+77 45.00' LT EL 2696.37 MATCH EXISTING
2690 = 2688 =				SEE GRADING DETAILS BE SUBMITTED AT 95%	
2686				Drainage Profile Provided At 9 Submitta	95%
	Capital City Development	,121 N. 9th Street	Design By: M. Blum Suite 501, Boise, Idaho, 83702 ww.ccdcboise.com	Date: 12/23 Dra Project Numk	wn By: HDR Der: 23056



Sheet C6.03

		R1013003	3246						32 300 D	5 LI
			SSOCIATES LLC]				Q ₂₅ =0.46	5 CFS 23		
	/ RimE	Elev.=2697.11(Rim Elev.=26	28) 97.16\28\		F 		Rim Elev.=269	7.88-		
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Sta. 26+80	I JEE FIEV	<u>C"</u> Sheet 24 +00	Q ₂₅ =0.27 CFS / _{0.6} =387 CF	~ ~ ~	3_EA 	28-	+00			61
Match Line			W	Banno		0.16 CFS =227 CF	6			·
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		R10130032 HO POWER CO 1217 W BANNOCK			R1C IDAHO PC [13003236 WER COM 1205 NNOCK S	6 IPANY T			N 12th
26	+80 27-	+00				28-	GRADING DET	AILS		
2702						IO BE	SUBMITTED A	95%		
2700		TBC R	t. –,		TBC RT 27+81.00 26.50' RT	9C./69Z J	TBC RT 28+13.35 26.50' RT EL 2697.85		TBC RT 28+53.5 71.75' RT EL 2698.16 MATCH EXISTING	
2698						0.90	70	TBD@95%		
2696		0.50%	- TBC Lt.			0.	28+13.35 %08	TBD@95%	28+53.50 LT 7.66 EXISTING	
2694						TBC LT 27+ 26.25' LT EL 2697.49	TBC PC LT 26.25' LT EL 2697.68		TBC LT 2 68.50' LT EL 2697. MATCH E)	
2692						EL EL		L SE TO B	E GRADING DETA	LS 95%
2690										
2688										
2686										
Revisions	s:								Design	By: M. Blu
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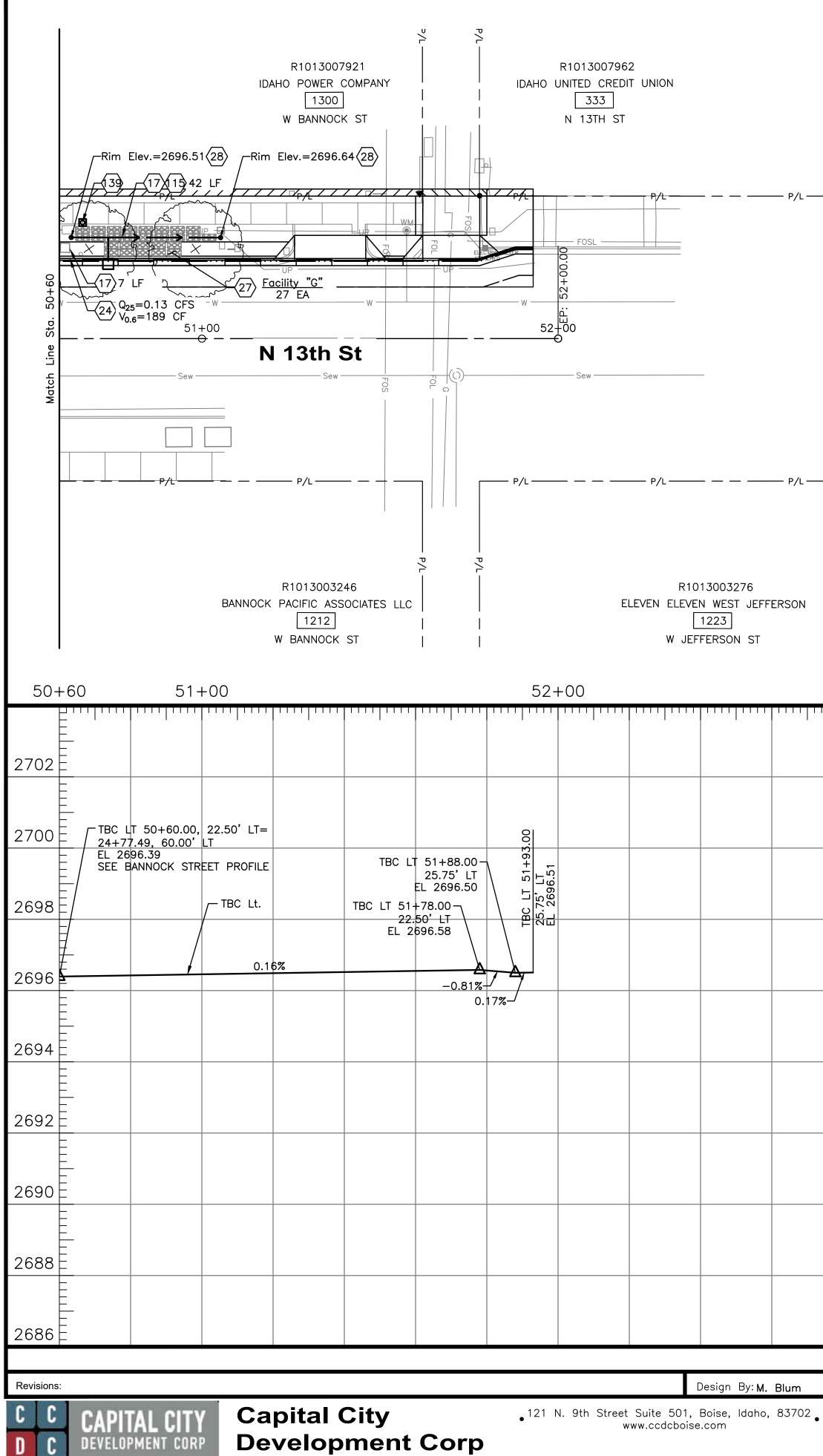


Project Nur	nber: 23056	Project Name:	Bannock S
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Street - 16th to 12th **Streetscape Improvements**



um		Date: 12/2	7	Drawn By: HD I		Date: 12/ 2		Survey By: Civ			e: 05/23
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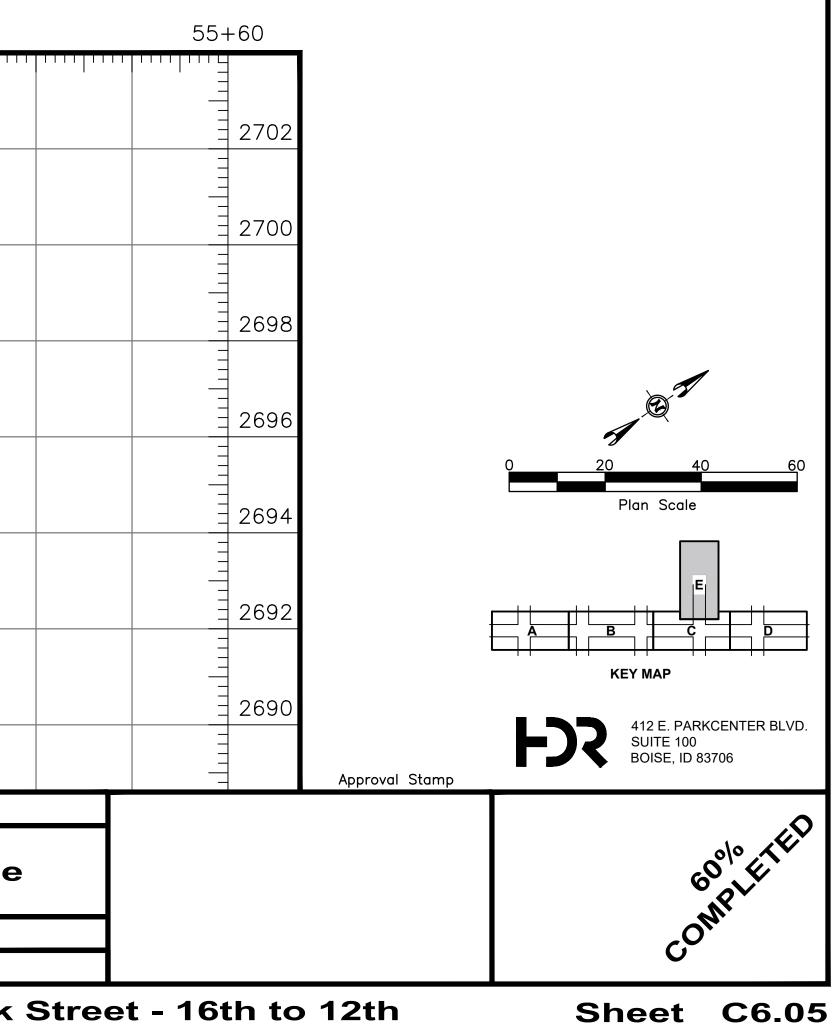
Project Name: Bannock Street - 16th to 12th

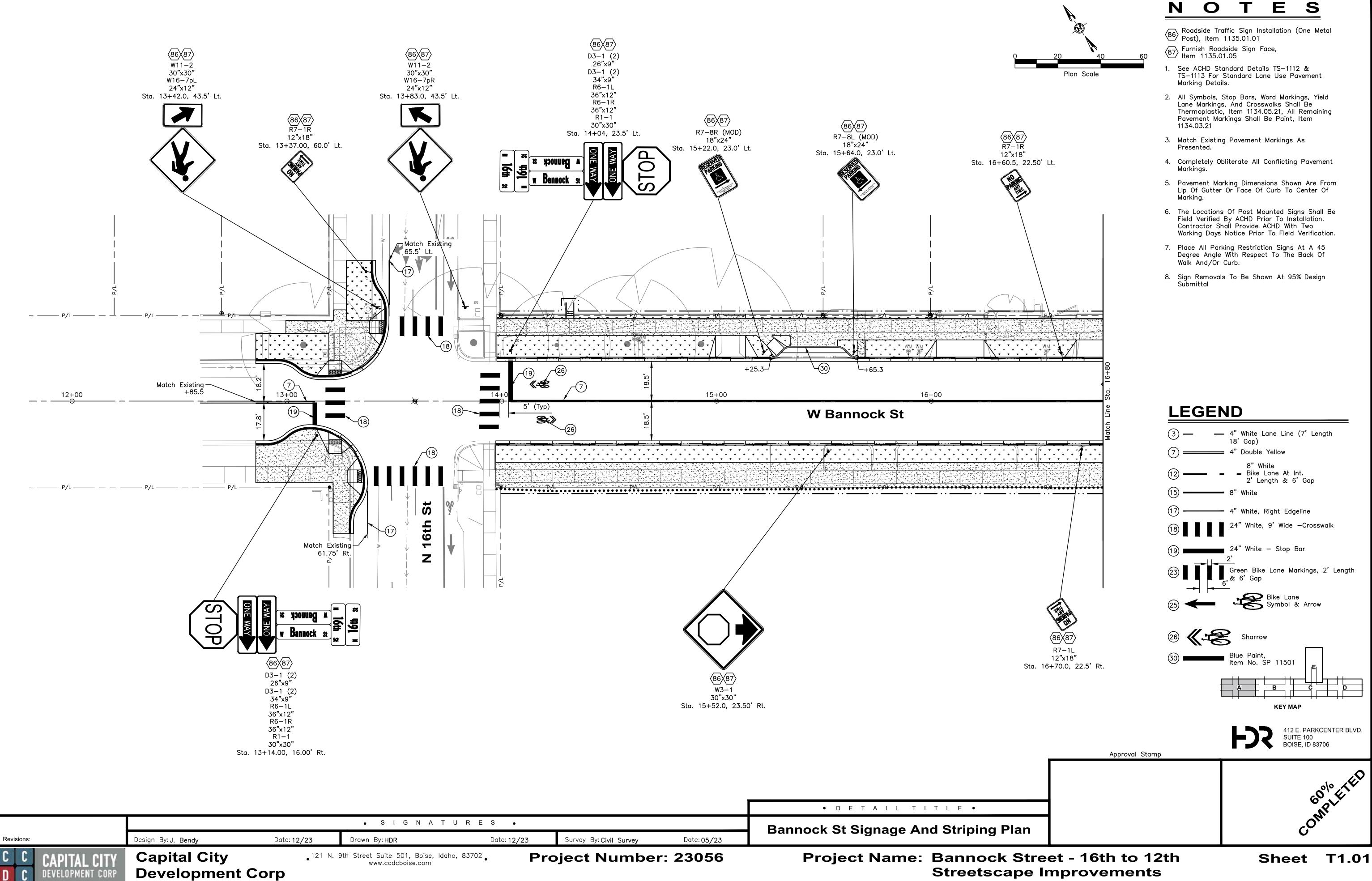
Project Number: 23056

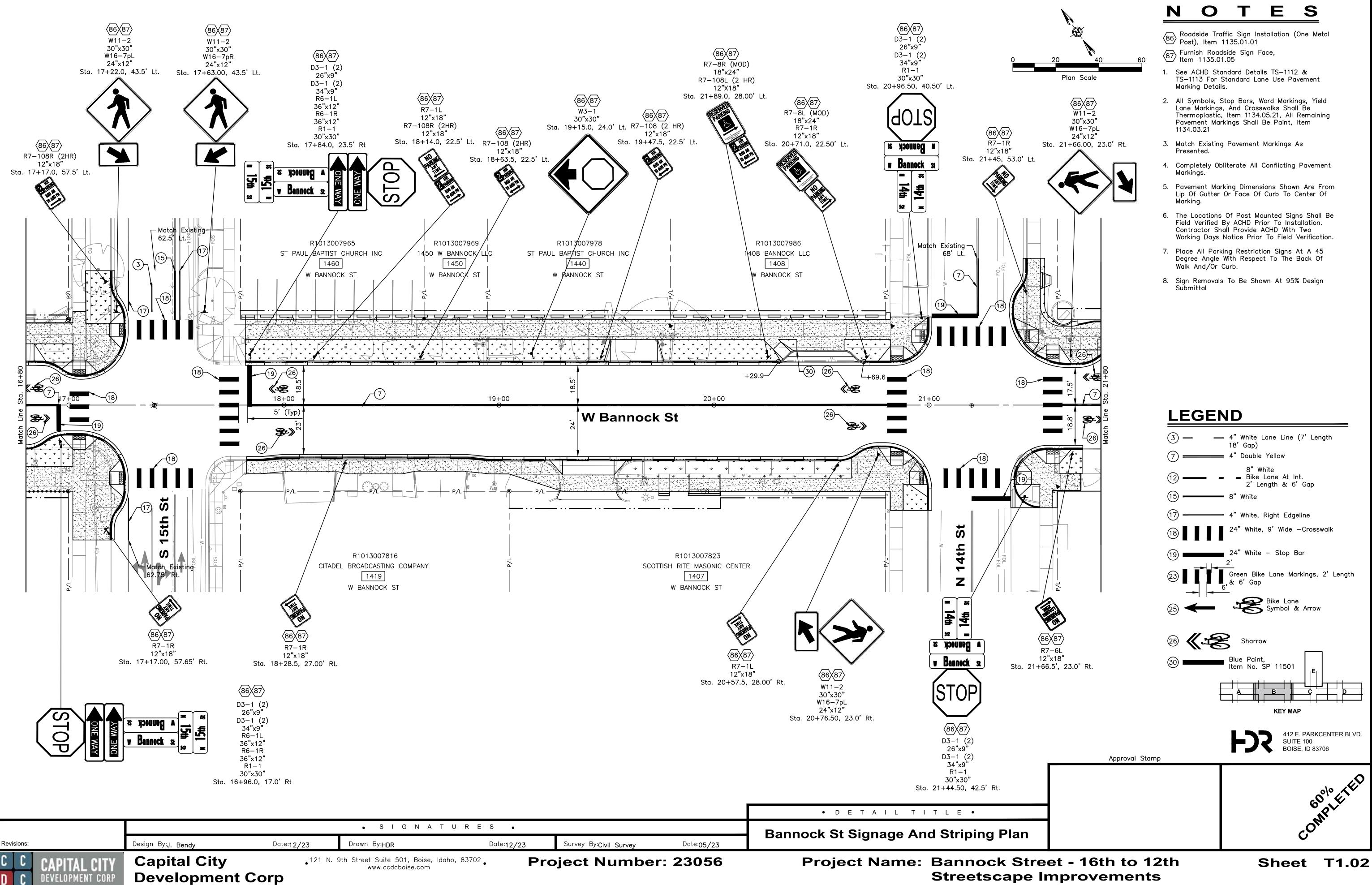
NOTES	
(17) 6" SDR 35 PVC Pipe, Item 601.4.1.A.5.6	•
$\langle 24 \rangle$ Shallow Inlet – Type I, Item 602.4.1.F.1.	1.A
27 Stormwater Tree (Silva) Cells, Type 2X It SP 02028	em
28 Traffic Rated Clean—Out, Per BMP33 In A Policy Manual Section 8200, Item SP 060	ACHD 006
Retain And Protect Existing Signal (90) Infrastructure Including Cabinet, Service Pedestals, Foundations, Conduit & Cabling	g.
Perforate Distribution Pipe Per Detail X. To Be Provided At 95% Submittal.	Detail
(39) Groundwater Observation Well, Item SSP :	29110



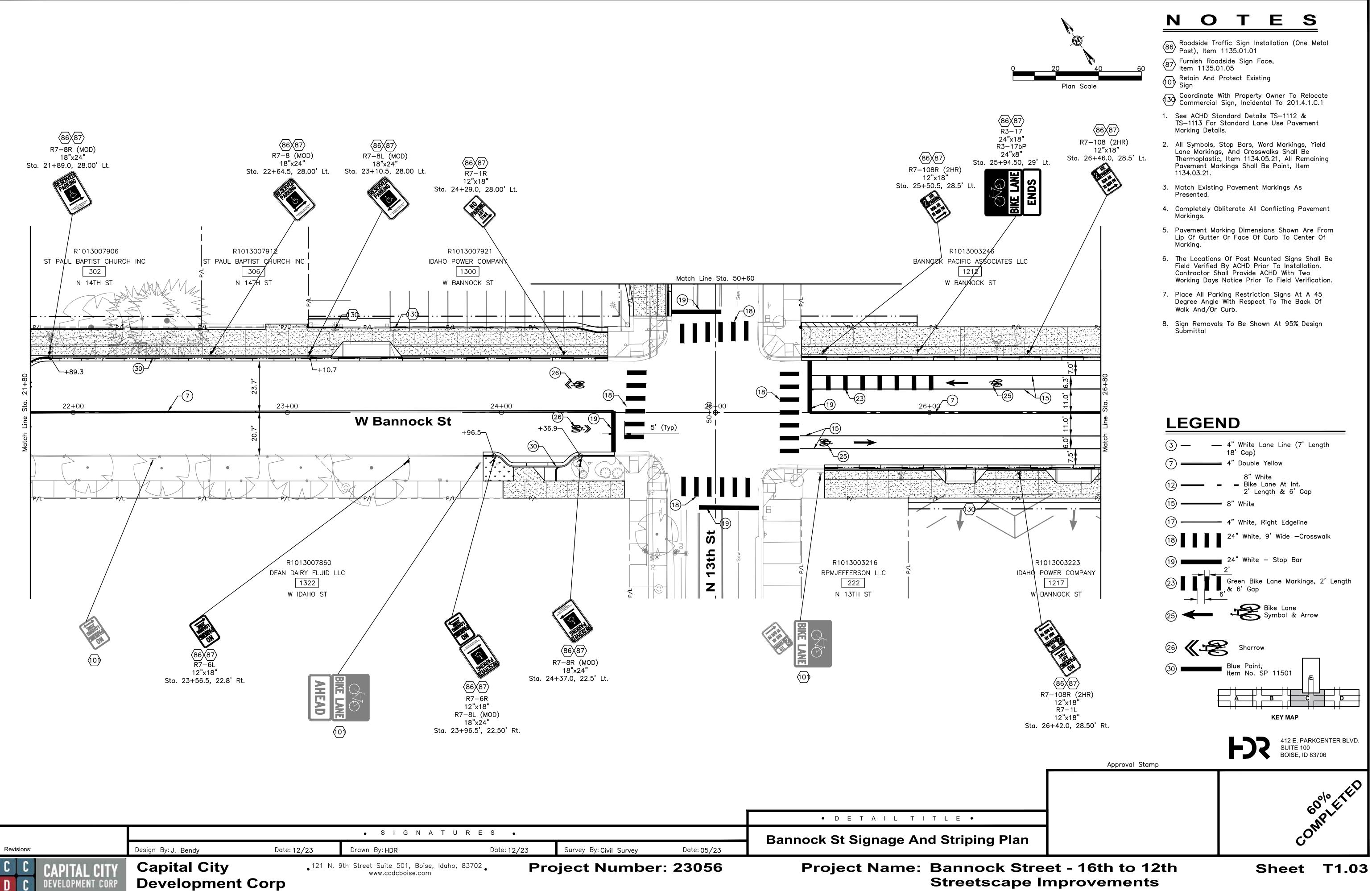
1. See Roadway Detail Sheets For Silva Cell Details. To Be Provided At 95% Submittal.



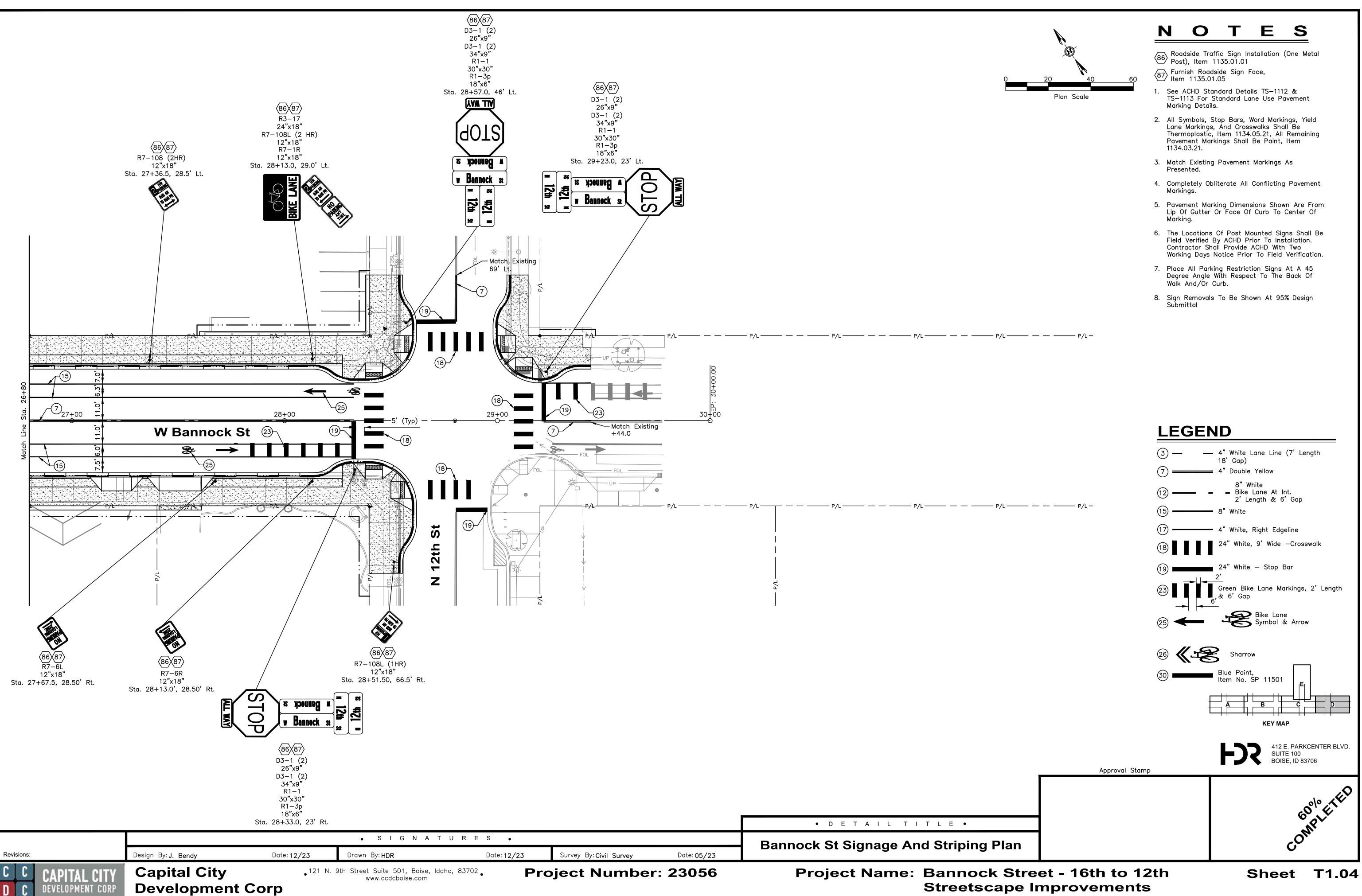




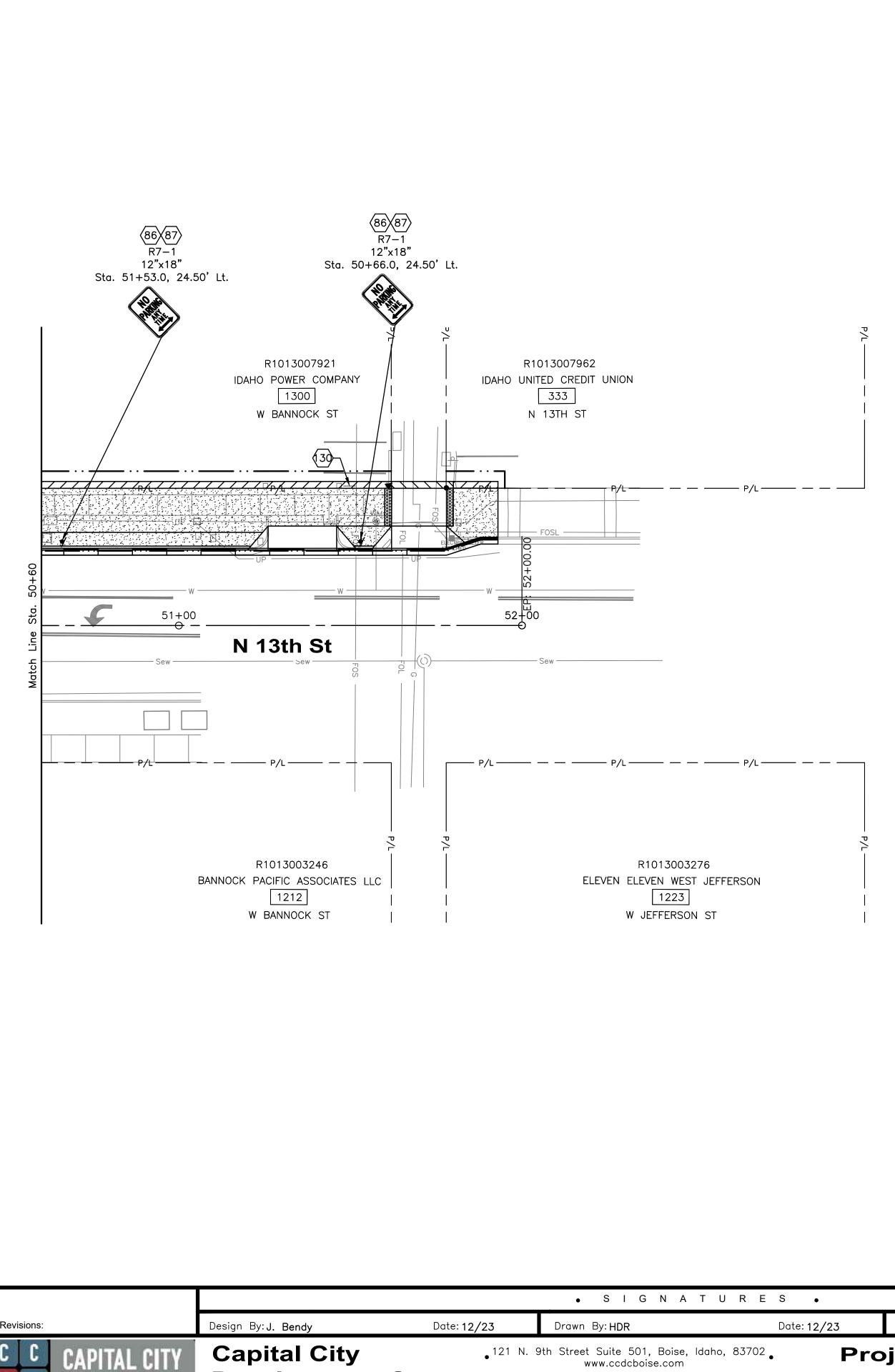
Sheet T1.02



3702	Pro	oject Number	r: 23056	Project Name: Bannock
	Date: 12/23	Survey By: Civil Survey	Date: 05/23	
RE	S•			Bannock St Signage And Striping P
				• DETAIL TITLE •





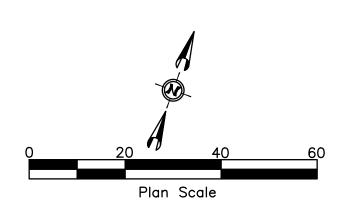


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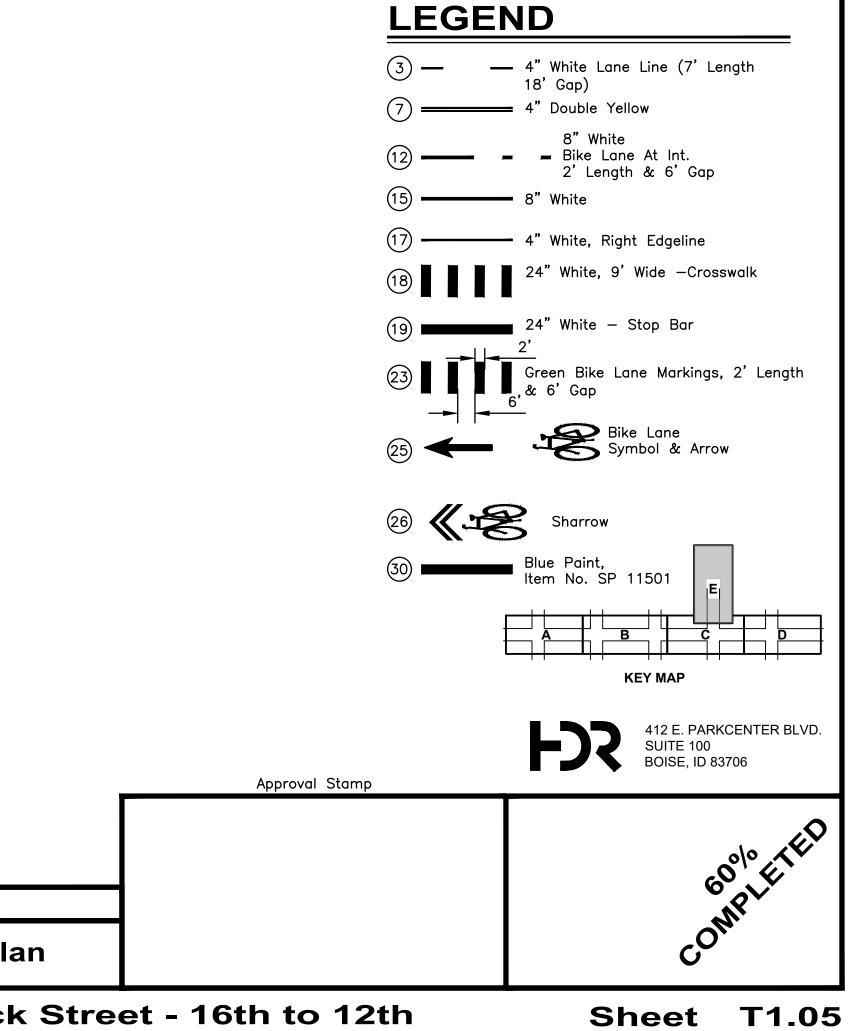
³⁷⁰² • Pr	oject Number	r: 23056	Project Name: Bannock S
Date: 12/23	Survey By: Civil Survey	Date: 05/23	
RES .			13th St Signage And Striping Plan
			• DETAIL TITLE •
		_	

23056 Project Nam

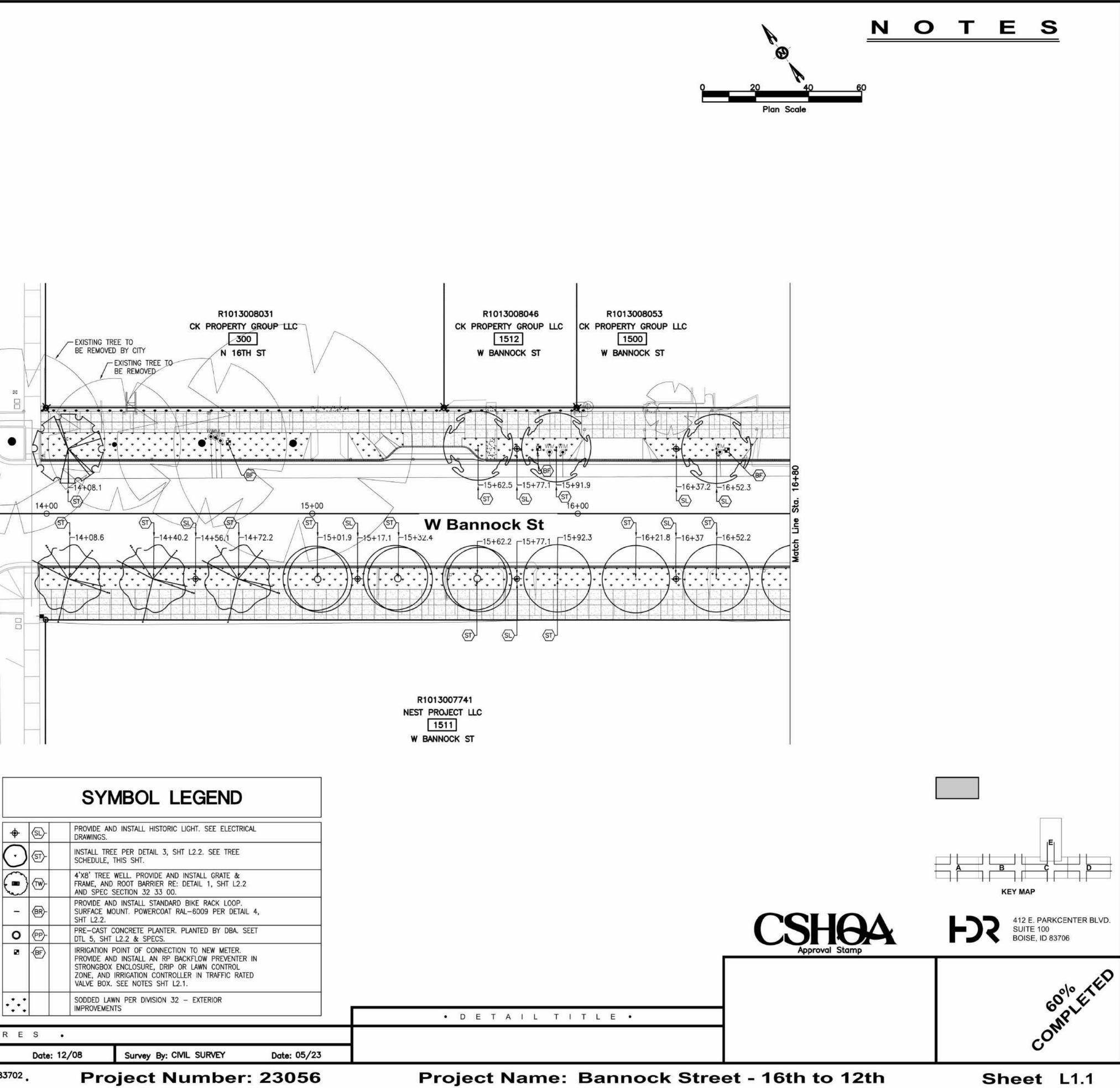




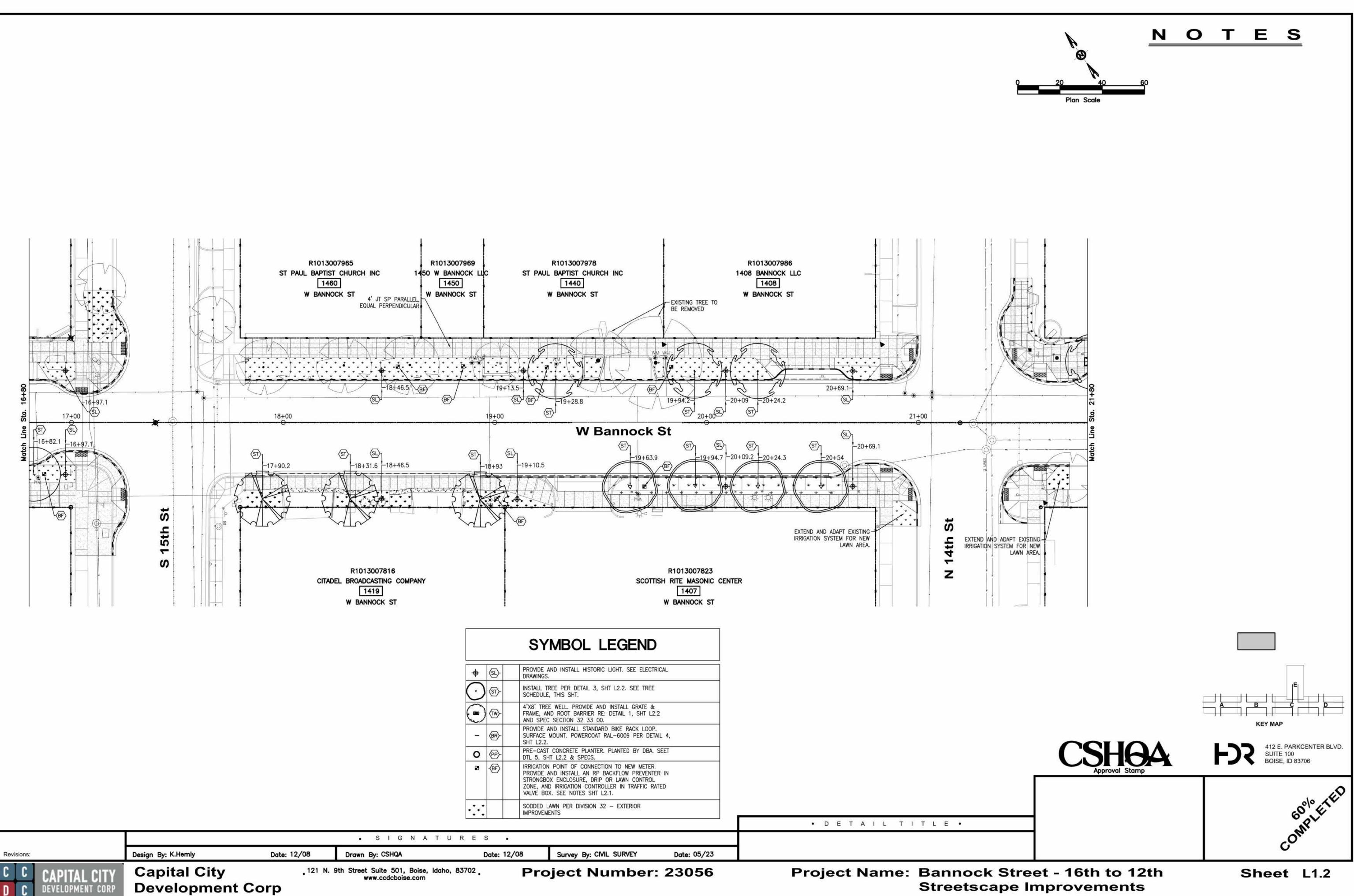
- (86) Roadside Traffic Sign Installation (One Metal Post), Item 1135.01.01
- (87) Furnish Roadside Sign Face, Item 1135.01.05
- Coordinate With Property Owner To Relocate Commercial Sign, Incidental To 201.4.1.C.1
- See ACHD Standard Details TS-1112 & TS-1113 For Standard Lane Use Pavement Marking Details.
- 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.
- Match Existing Pavement Markings As Presented.
- 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.
- 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

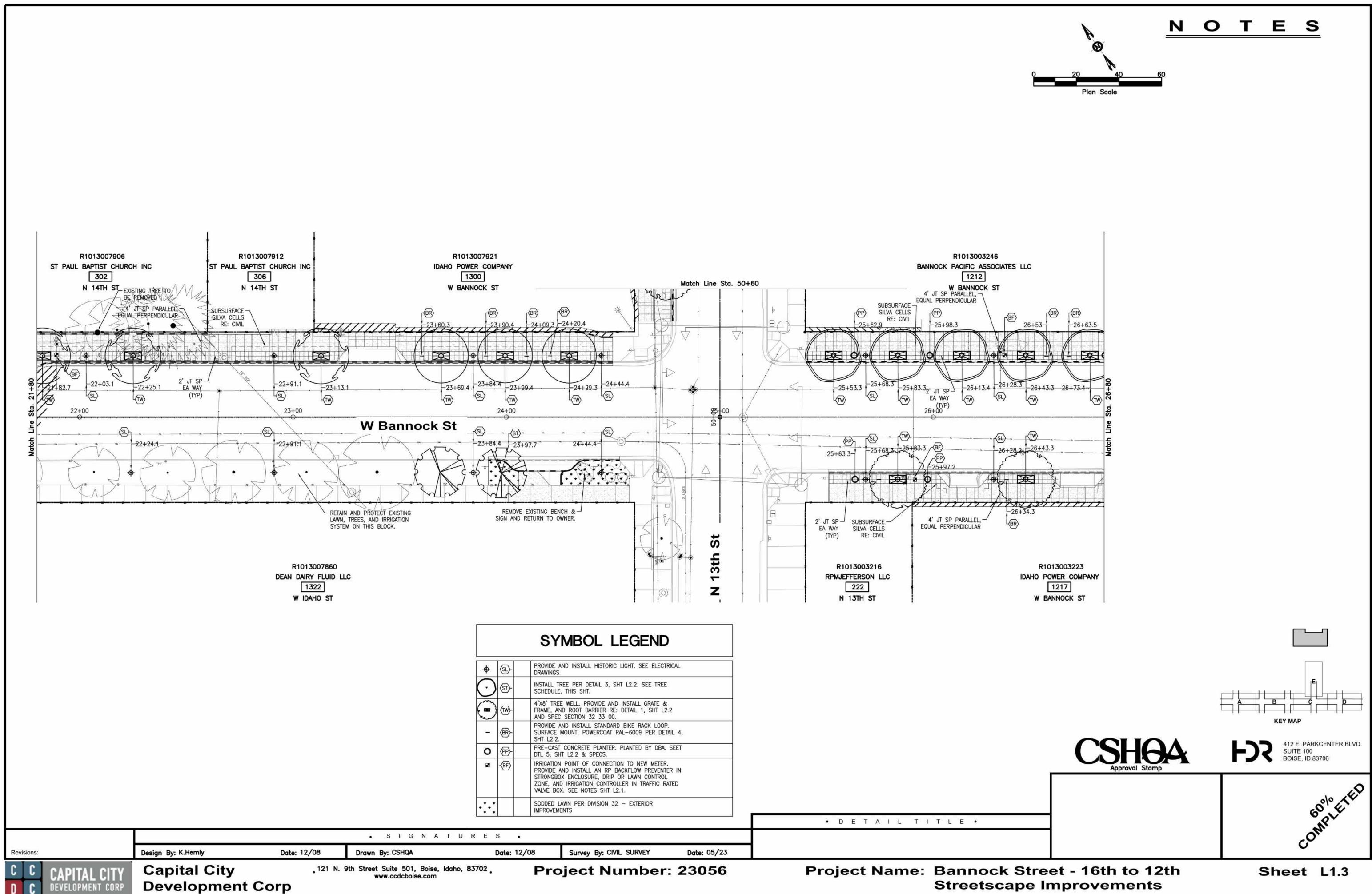


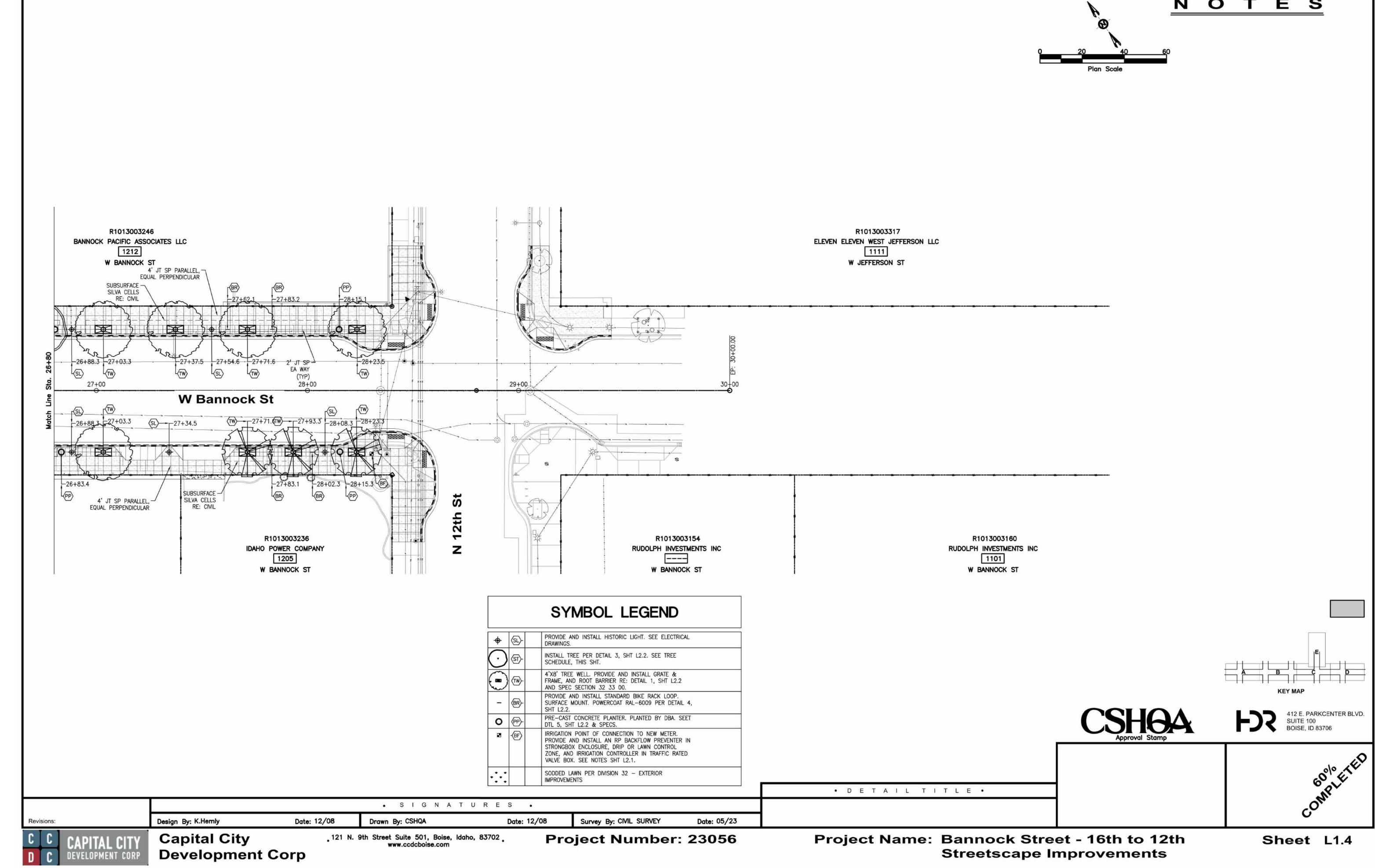
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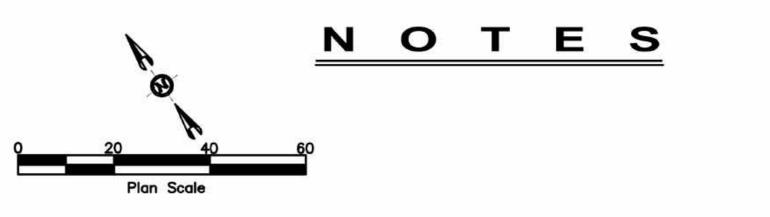


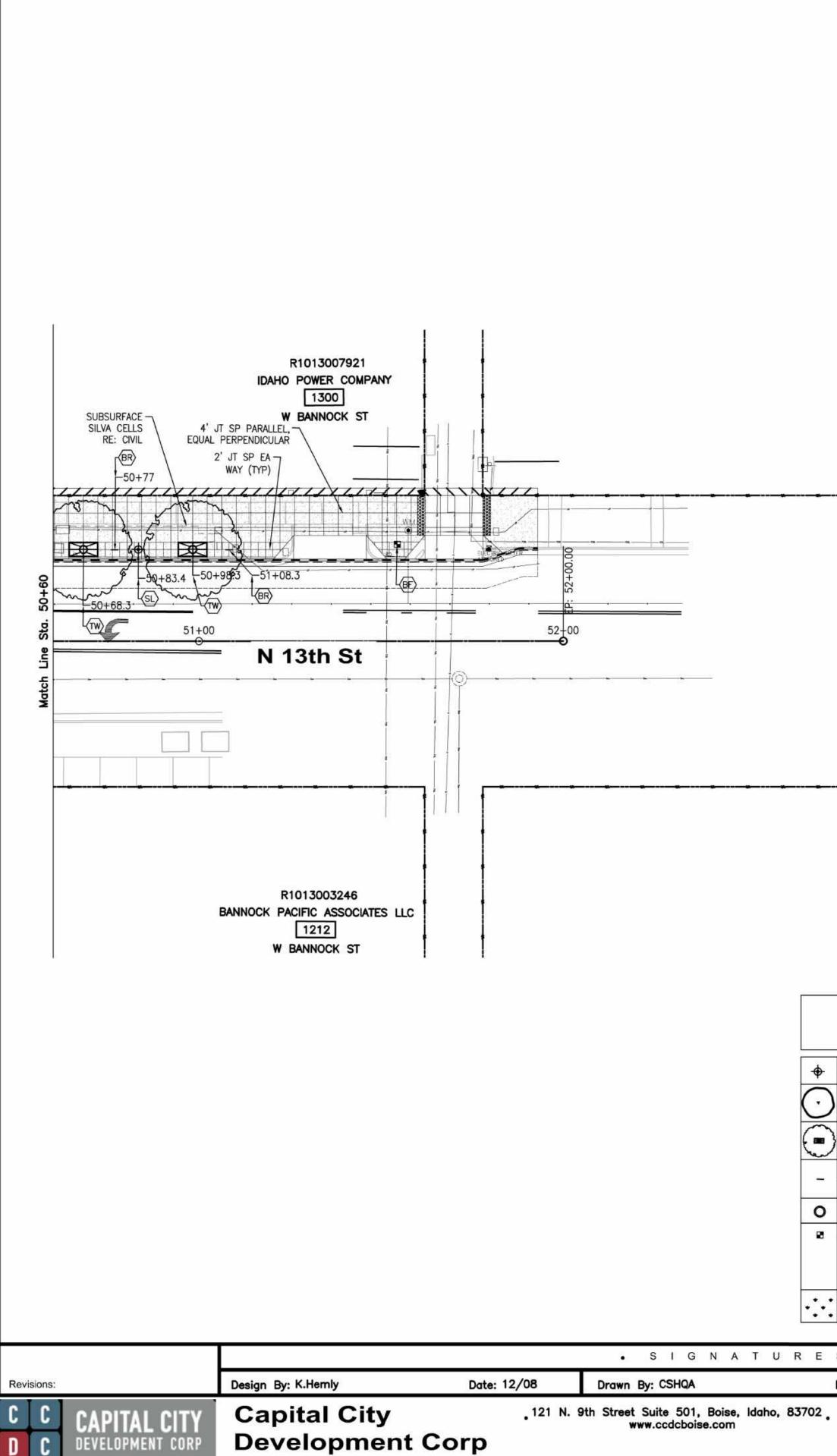
		SYMBOL LEGEND	
•	(SL)-	PROVIDE AND INSTALL HISTORIC LIGHT. SEE ELECTRICAL DRAWINGS.	
\odot	5	INSTALL TREE PER DETAIL 3, SHT L2.2. SEE TREE SCHEDULE, THIS SHT.	
	~	4'X8' TREE WELL. PROVIDE AND INSTALL GRATE & FRAME, AND ROOT BARRIER RE: DETAIL 1, SHT L2.2 AND SPEC SECTION 32 33 00.	
-	@R-	PROVIDE AND INSTALL STANDARD BIKE RACK LOOP. SURFACE MOUNT. POWERCOAT RAL-6009 PER DETAIL 4, SHT L2.2.	
0	@P-	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	• DETAIL TITLE •
RE	s.		• DETATE TITLE •
	Date: 12	2/08 Survey By: CIVIL SURVEY Date: 05/2	5
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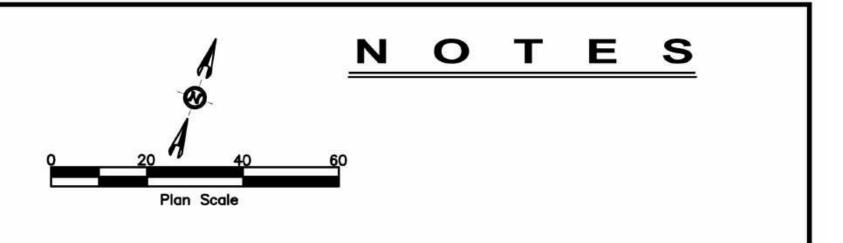
INSTALL TREE PER DETAIL 3, SHT L2.2. SEE TREE SCHEDULE, THIS SHT.	
UVOL TOPE WELL DOOLDE AND INCTALL ODATE A	
→ 4'X8' TREE WELL. PROVIDE AND INSTALL GRATE & FRAME, AND ROOT BARRIER RE: DETAIL 1, SHT L2.2 AND SPEC SECTION 32 33 00.	
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\rightarrow	AND SPEC SECTION 32 33 00. PROVIDE AND INSTALL STANDARD BIKE RACK LOOP. SURFACE MOUNT. POWERCOAT RAL-6009 PER DETAIL 4, SHT L2.2. PRE-CAST CONCRETE PLANTER. PLANTED BY DBA. SEET DTL 5, SHT L2.2 & SPECS. 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

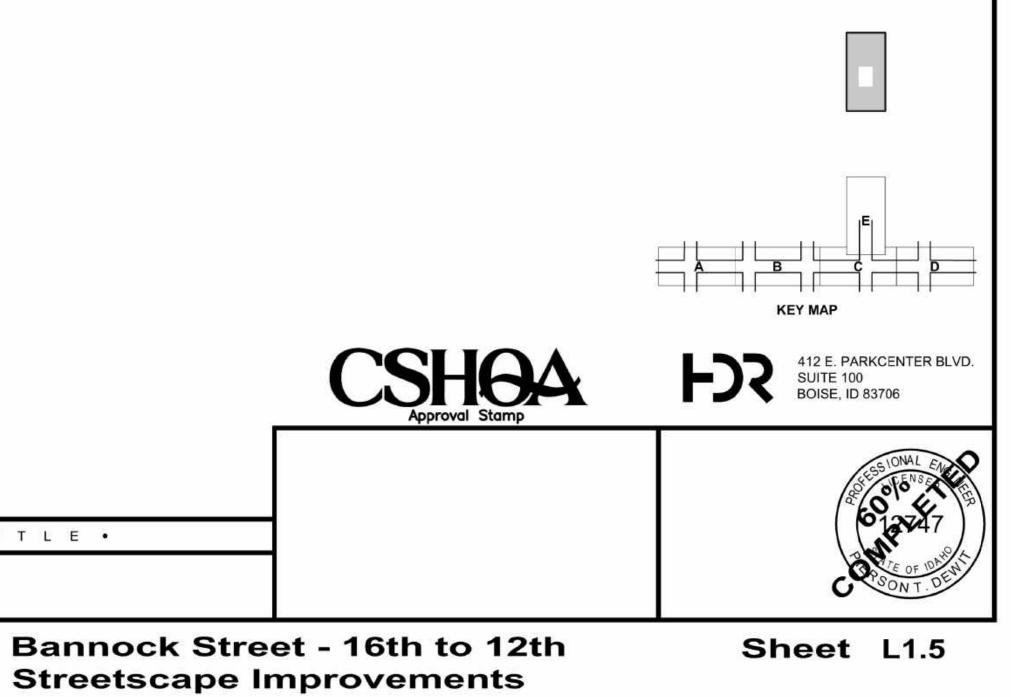
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Date: 12/08

Survey By: Civil Survey

Project Number: 23056





LAN	DSCAPE NOTE	ES	
CIVIL DWGS. COORDINATE	. UTILITIES DURING CONSTRUCTION UNLESS WITH VIOLA WATER, IDAHO POWER, BOISE D UTILITY UPDATES THAT COINCIDE WITH T SH ELEVATION.	CITY IT, AND BOISE CITY	A. REFER TO SPECI B. PROVIDE THE FO CONNECT TO NEW
	TRAFFIC SIGNAL WIRING AND CONDUIT, O CE TO ACHD REQUIREMENTS. REFER TO C		MANUAL CONTROL PROVISION FOR
DETAILS AND PROJECT SPI	COMPLIANCE WITH LATEST EDITION ISPWC ECIAL PROVISIONS. REFER TO DIVISION 32	- EXTERIOR	C. IRRIGATION REDU AND ENCLOSED LOCK SECURELY.
	ANDSCAPE AND IRRIGATION INSTALLATION AWINGS FOR ALL LIGHTING REQUIREMENTS.		D. IN STREETSCAPE BOXES IN APPRO
	QUIRES WITNESSING TREE PLANTING DEMOI R TO SPECIFICATION SECTION 32 90 00.		BATTERY OPERATI DEDICATED ZONE
BOISE'S DOWNTOWN BOISE	VIDE AND INSTALL STREETSCAPE FURNISH STREETSCAPE STANDARDS AND SPEC SE S AS INDICATED ON THE DWGS.	NGS PER THE CITY OF	E. IN LAWN LOCATIO APPROVED LOCAT ZONES AND BATT PROS-06-PRS30
	EXISTING TREES UNLESS OTHERWISE NOT OVIDED TEMPORARY IRRIGATION WATER FOR		F. IN SILVA CELL LO ON PLANTING SO IRRIGATION TO BI
SPECIFIED PLANT MATERIAL AVAILABLE, THE ARCHITECT	O OF CONTRACT, NOTIFY THE ARCHITECT C L FROM COMMERCIAL NURSERIES. IF A SP WILL PROVIDE ALTERNATE PLANT MATERI FR THE ORIGINAL BID PRICE UNLESS A CP	ECIFIED PLANT IS NOT AL SELECTIONS. SUCH	G. IRRIGATION SUPP REPRESENTED OF
I. LANDSCAPE INSTALLATION CONDITIONS AND REQUIRED ALL TIMES, AND IN CHRON SPECIFICATIONS FOR INSPE	SPECIFICATIONS ARE IN BOOK FORM. CON MENTS CONTAINED WITHIN. HAVE AVAILABLE NOLOGICAL ORDER, THE PROJECT CONSTRU- ECTION BY THE ARCHITECT. RETAIN ON SI CHANGE ORDERS, AND / OR CONSTRUCTION APE INSTALLATION.	E ON THE JOB SITE AT JCTION DRAWINGS & TE ALL OFFICIAL /	H. PROVIDE 20' DOI TO BE ON DEDIC I. CAP AND REMOVI IMPROVEMENT AR CONNECTIONS HA STREETSCAPE WC OFF-SITE LANDSI
ANY PHASE OF CONSTRUC 1-800-642-2444 TO LOC TO THE SATISFACTION OF	EXISTING UNDERGROUND UTILITY SYSTEM TION THAT MAY CAUSE DAMAGE TO SUCH CATE EXISTING UTILITIES. REPAIR / REPLA THE OWNER OR GOVERNING AGENCY, AND INCREASE IN BID AMOUNT.	SYSTEMS. CALL CE DAMAGED UTILITIES	J. CONFIRM IRRGATI THE PSI BE LE PRESSURE DIFFE CONSTRUCTION, 7 REVISIONS.
K. CONTRACTOR SHALL BE RI DELETERIOUS MATERIAL SU MATERIAL, ASPHALT, ETC,	ESPONSIBLE FOR PREPARING ALL PLANTED ICH AS ROCK, TRASH, CONSTRUCTION DEE SHALL BE REMOVED PRIOR TO ANY FILL TIONS. FILL ALL PLANTING AREAS WITH CL	BRIS, AGGREGATE BASE OPERATIONS. RIP SUB	K. CONTRACTOR SHA WHEN IT IS OBVI FROM PERFORMIN WRITING THAT SU
PER SPECIFICATIONS. SOIL MATERIAL OVER ONE INCH TOPSOIL EQUAL TO THAT	SHALL BE FREE OF HEAVY, STIFF CLAY IN SIZE. THE TOP SIX INCHES OF FILL I REQUIRED IN THE SPECIFICATIONS. CLEAN ED FOR PLANTER OR TOPSOIL FILL IF PR	AND ANY DELETERIOUS MATERIAL SHALL BE TOPSOIL STRIPPED	L. DRAWINGS ARE C LINES, ETC. WILL DESIGN CLARIFIC/
L. EXCAVATED PLANT PITS SH	HALL HAVE POSITIVE DRAINAGE. PLANT PIT IALL DRAIN WITHIN 1 HOUR OF FILLING. E		POSSIBLE, AND L COVER/SHRUB A CONTRACTOR IS COVERAGE, EVEN
THE CONTRACT PERIOD. S	EROSION CONTROL MEASURES THROUGHOU HOULD THERE BE EXISTING SOIL EROSION FY THE ARCHITECT IMMEDIATELY.		M. IF CIRCUIT PIPE RESPONSIBLE TO
RESULT OF NEW CONSTRU	BLE TO REPAIR ALL LANDSCAPE PLANTING ICTION. RE: CIVIL PLANS, SITE ELECTRICA IITED TO TREES, SHRUBS GROUNDCOVER	L PLANS. REPAIR	FIVE FEET PER S USED. N. CONTRACTOR IS
TUFOUL; EDGING; LANDSC			AND WALKWAY S OF SLEEVING. RE PRIOR TO INSTAL
			O. CONTRACTOR IS AS A RESULT OF SITE ELECTRICAL
			DRIP COMPONEN

IRRIGATION NOTES
TO SPECIFICATION SECTION 32 84 00 FOR IRRIGATION REQUIREMENTS.
THE FOLLOWING AT EACH POINT OF CONNECTION LOCATION PER PLANS – T TO NEW OR EXISTING WATER METER FOR IRRIGATION AS NOTED. PROVIDE 1" CONTROL VALVE, 3/4" MANUAL DRAIN VALVE AT EACH CONNECTION. PROVIDE ON FOR WINTERIZATION.
ON REDUCED PRESSURE BACKFLOW PREVENTER TO BE INSTALLED ABOVE-GROUND CLOSED IN STRONG BOX ALUMINUM BACKFLOW ENCLOSURE SIZED TO COVER AND ECURELY. INSTALLATION SHALL BE PER STATE PLUMBING CODES AND ORDINANCES.
ETSCAPE LOCATIONS: CONSTRUCT IRRIGATION SERVICE IN TRAFFIC RATED VALVE IN APPROVED LOCATION. PROVIDE 3/4" DRIP SYSTEM CONTROL VALVE KIT AND OPERATED HUNTER NODE CONTROLLER. SILVA CELL DRIP IRRIGATION TO BE ON ED ZONE SEPARATE FROM THE TREE IRRIGATION.
I LOCATIONS: CONSTRUCT IRRIGATION SERVICE IN TRAFFIC RATED VALVE BOXES IN ED LOCATION. PROVIDE AT LEAST TWO (2) ICV-101G-DC REMOTE CONTROL VALVE AND BATTERY OPERATED HUNTER NODE CONTROLLER. INSTALL HUNTER IG-PRS30-10 SPRINKLER SPRAY HEADS, PATTERN PER PLAN.
A CELL LOCATIONS: INSTALL DRIP LINE BETWEEN SILVA CELL ROWS, 2' O.C. PLACE NTING SOIL SURFACE TUCKED BETWEEN SILVA CELL TOP DECKS. SILVA CELL DRIP ON TO BE ON DEDICATED ZONE SEPARATE FROM THE STREET TREE IRRIGATION. TO CIVIL SILVA CELL DWGS AND DETAILS.
ON SUPPLY TO BE 1" CLASS II PVC LATERAL SUPPLY LINES IN 2" SLEEVE, ENTED ON PLANS.
20' DOUBLE LOOP OF DRIPPERLINE TO EACH TREE. STREET TREE DRIP IRRIGATION ON DEDICATED ZONE SEPARATE FROM SILVA CELL IRRIGATION.
D REMOVE ALL EXISTING IRRIGATION FOUND IN STREETSCAPE/LANDSCAPE EMENT AREAS. TRACE EXISTING LINES BACK TO IRRIGATION SOURCE TO ENSURE TIONS HAVE BEEN PROPERLY CAPPED AND ANY IRRIGATED AREAS OUTSIDE THE SCAPE WORK LIMITS ARE RETAIN, ADJUSTED TO PROVIDE IRRIGATION FOR RESULTANT TE LANDSCAPE AREA, AND PROTECTED.
IRRGATION CONNECTION PSI IS ADEQUATE PRIOR TO COMMENCING WORK. SHOULD BE LESS THAN THIS, NOTIFY THE ARCHITECT IMMEDIATELY. IN THE EVENT RE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF UCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY NS.
CTOR SHALL NOT INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS IS OBVIOUS IN THE FIELD THAT SITE CONDITIONS INHIBIT THE SPRINKLER SYSTEM ERFORMING AS INTENDED. IN THE EVENT THAT THE ARCHITECT IS NOT NOTIFIED IN THAT SUCH CONDITIONS EXIST, THE CONTRACTOR SHALL ASSUME FULL SIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
S ARE CONCEPTUAL IN NATURE. ACTUAL PLACEMENT OF SPRAY HEADS, VALVES, ETC. WILL VARY. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE E, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND SHRUB AREAS, 6" TO 12" AWAY FROM EDGE OF PAVEMENT FOR EASE OF ACCESS. CTOR IS RESPONSIBLE FOR INSTALLING A WORKING SYSTEM THAT MAINTAINS PROPER GE, EVEN IF MINOR ADJUSTMENTS ARE NECESSARY. NO IRRIGATION WATER IS TO ON BUILDING WALLS, SIGNS, OR SIDEWALKS.
JIT PIPE SIZES ARE NOT SHOWN ON THE DRAWING, THE IRRIGATION CONTRACTOR IS SIBLE TO SIZE CIRCUIT PIPING. WATER VELOCITY IN ALL PIPES SHALL NOT EXCEED ET PER SECOND. MINIMUM PIPE SIZE TO BE 1". POLYETHYLENE PIPE SHALL NOT BE
CTOR IS RESPONSIBLE FOR INSTALLING SLEEVES UNDER ALL ROADWAY, PARKING, LKWAY SURFACES. EXTEND 6" MINIMUM BEYOND SURFACE EDGE. IDENTIFY ENDPOINTS EVING. REPORT ALL PROPOSED CHANGES IN SYSTEM DESIGN TO THE ARCHITECT TO INSTALLATION.
CTOR IS RESPONSIBLE TO REPAIR ALL EXISTING IRRIGATION COMPONENTS DAMAGED

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

	TREE LEGEN	2
SYM	COMMON NAME BOTANICAL NAME	1
TREES	6.2	
B	Swamp White Oak Quercus bicolor 'American Dream'	
+	Skyline Honeylocust Gleditsia triacanthos inermis 'Skyline'	
5.5	Princeton Elm Ulmus 'Princeton'	
	Kentucky Coffeetree Gymnocladus dioicus 'Espresso'	
Sold and a second secon	State Street Maple Acer miyabei 'Morton'	
\bigcirc	American Sweetgum Liquidambar styraciflua	
\bigcirc	Red Oak Quercus rubra	

SYMBOL LEGEND

\$	(SL)-	PROVIDE AND INSTALL HISTORIC LIGHT. SEE ELECTRI DRAWINGS.
\odot	<u>(</u>)	INSTALL TREE PER DETAIL 3, SHT L2.2. SEE TREE SCHEDULE, THIS SHT.
\bigcirc) (Tile)	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 DETAI SHT L2.2.
0	@	PRE-CAST CONCRETE PLANTER. PLANTED BY DBA. S DTL 5, SHT L2.2 & SPECS.
8	(BF)	IRRIGATION POINT OF CONNECTION TO NEW METER. PROVIDE AND INSTALL AN RP BACKFLOW PREVENTER STRONGBOX ENCLOSURE, DRIP OR LAWN CONTROL ZONE, AND IRRIGATION CONTROLLER IN TRAFFIC RAT VALVE BOX. SEE NOTES SHT L2.1.
·:·:		SODDED LAWN PER DIVISION 32 - EXTERIOR IMPROVEMENTS

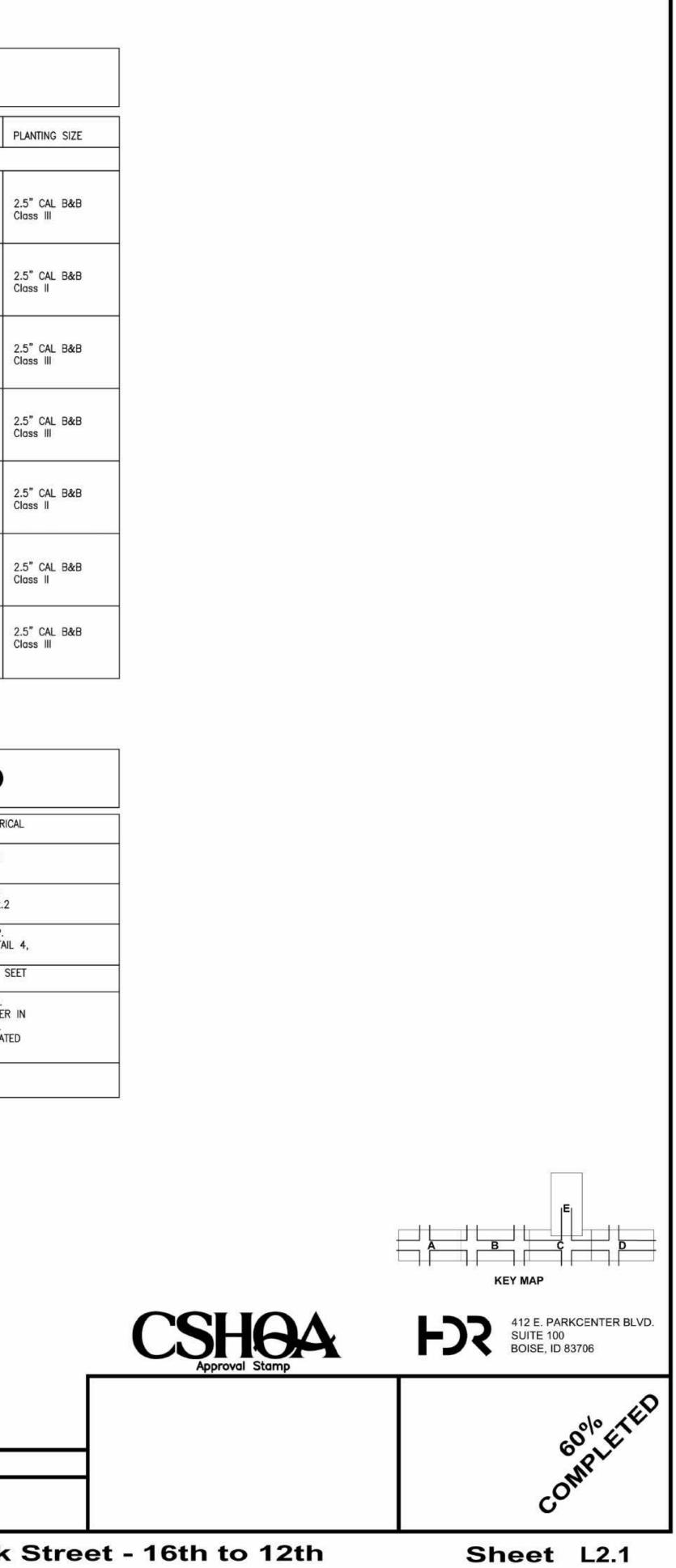
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nte: 12/08	Survey By: CIVIL SURVEY	Date: 05/23

• DETAIL TITLE •

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

Project Number: 23056

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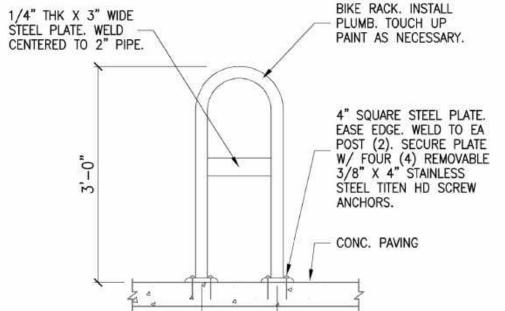
	NOT TO SCALE									
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Revisions:	Design By: K.Hemly	Date: 12/08	Drawn	By: C	SHO	QA				
C C CAPITAL CITY D C DEVELOPMENT CORP	Capital City Development Co	 Gammar (1996) 	9th Street v	Suite					ldaho	, 83



LOCATIONS: AS SHOWN ON PLAN.

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.

1'-0" SURFACE MOUNT



TREE WELL SECTION SCALE: NOT TO SCALE

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

TREE PLANTING PER SPECS

-1/2" PEA GRAVEL, 4" DEPTH

 $\rightarrow 2$

S.

PVC LATERAL-

ROOT BARRIER DEPTH.

-DRIP TUBING

AS SPECIFIED

TREE PLANTING DEMONSTRATION AT FIRST TREE INSTALLATION.

REFER TO TREE LIST SHT L2.1 FOR STREET TREE SPECIES AND SIZE. BOISE CITY FORESTRY REQUIRES WITNESSING

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

* 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

INSTALL XXXXXX (XX) TOTAL CAST-IN-PLACE 4'X8' TREE GRATES AND FRAMES. TO BE "KIVA" CAST IRON, NATURAL RAW

TYPE "S"

STANDARD

PER PLAN

FRAME & GRATE

*ROOT

BARRIER

TREE GRATE FRAME:

FRAME TYPE

* ROOT BARRIER

FERTILIZER TABS (21-10-5)

-PLANTING MIX PER SPEC

AT GROUND LEVEL.

TWINE & BURLAP SHALL BE

REMOVED. THE ROOT FLARE

MUST BE EXPOSED & PLANTED

PER MFG WRITTEN INSTRUCTIONS

REFER TO ENLARGEMENT DTL ABOVE

REFER TO CIVIL SILVA CELL PLANS FOR SILVA CELL INSTALLATION IN RELATIONSHIP TO TREE WELL

FOR INSTALLATION OF SPECIFIC

TYP CONC.

SIDEWALK

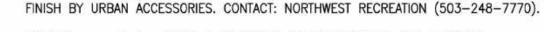
THICKEN EDGE

ISPWC 700. REFER TO CIVIL

PLANS.

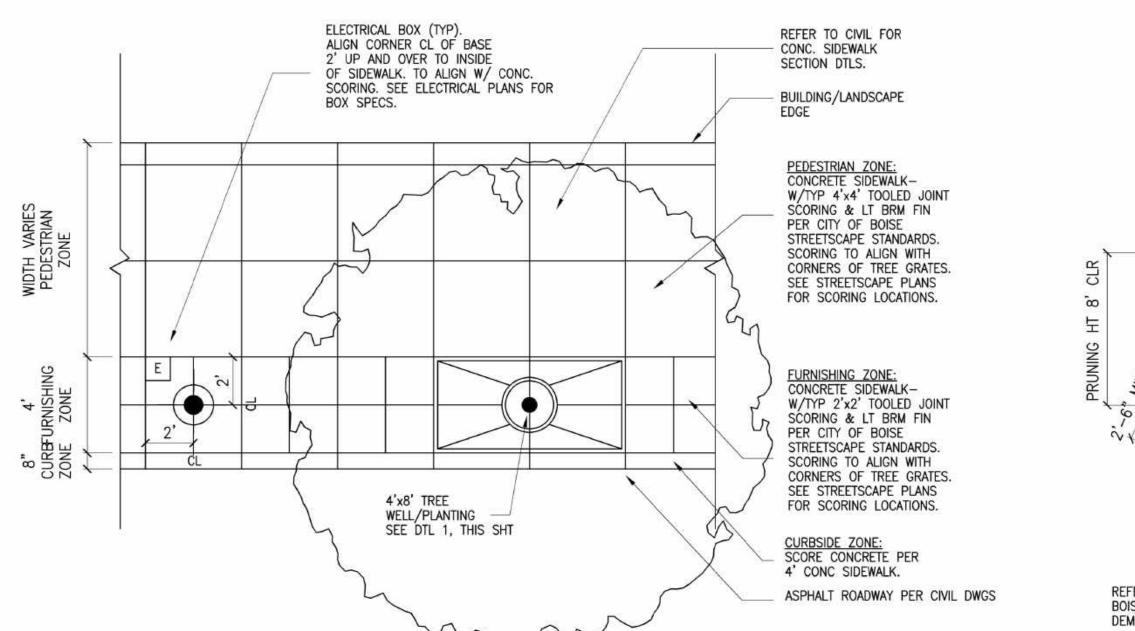
STANDARD ('S') FRAME

AT CONCRETE PAVING

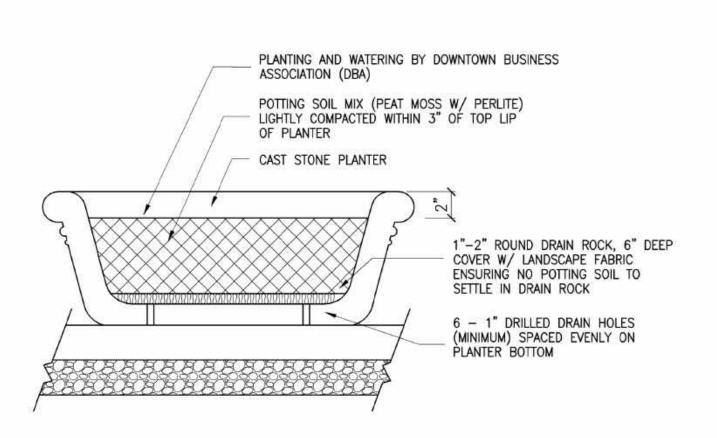




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2 CONCRETE STREETSCAPE PAVING PATTERN



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

2	Е	S		
		Date	e: 12/08	Survey By: CIVIL SURVEY
70	22		-	

• DETAIL TITLE •

Project Name: Bannock Street - 16th to 12th

Project Number: 23056

Date: 05/23

3702



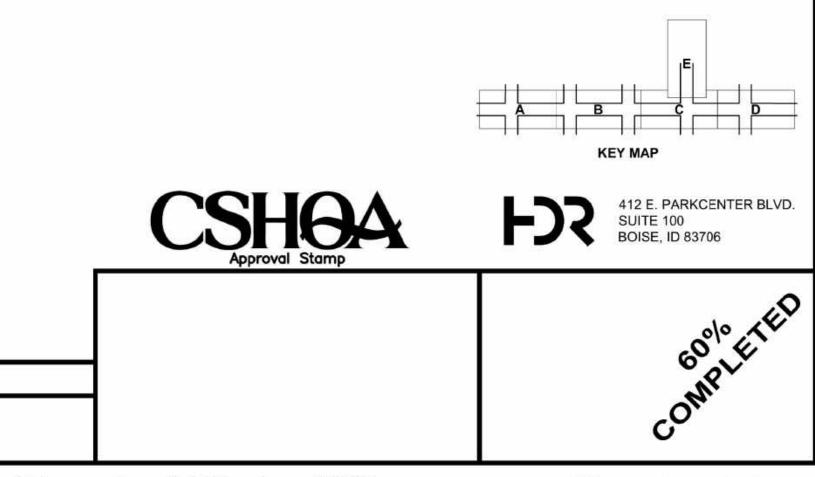
فيطر المالية المط

	H SAUCER IK BARK MULCH
trans 1 havener - U	AWN SOD
2 X BALL DIA.	4' EXCAVATION DEPTH AT ROOTBALL AT TREE LOCATIONS, BACKFILL W/ TOPSOIL MIX AS SPEC'D. 6" COMPACTED MOUND OR UNDISTURBED. USE 3 FERTILIZER TABLETS PER TREE.

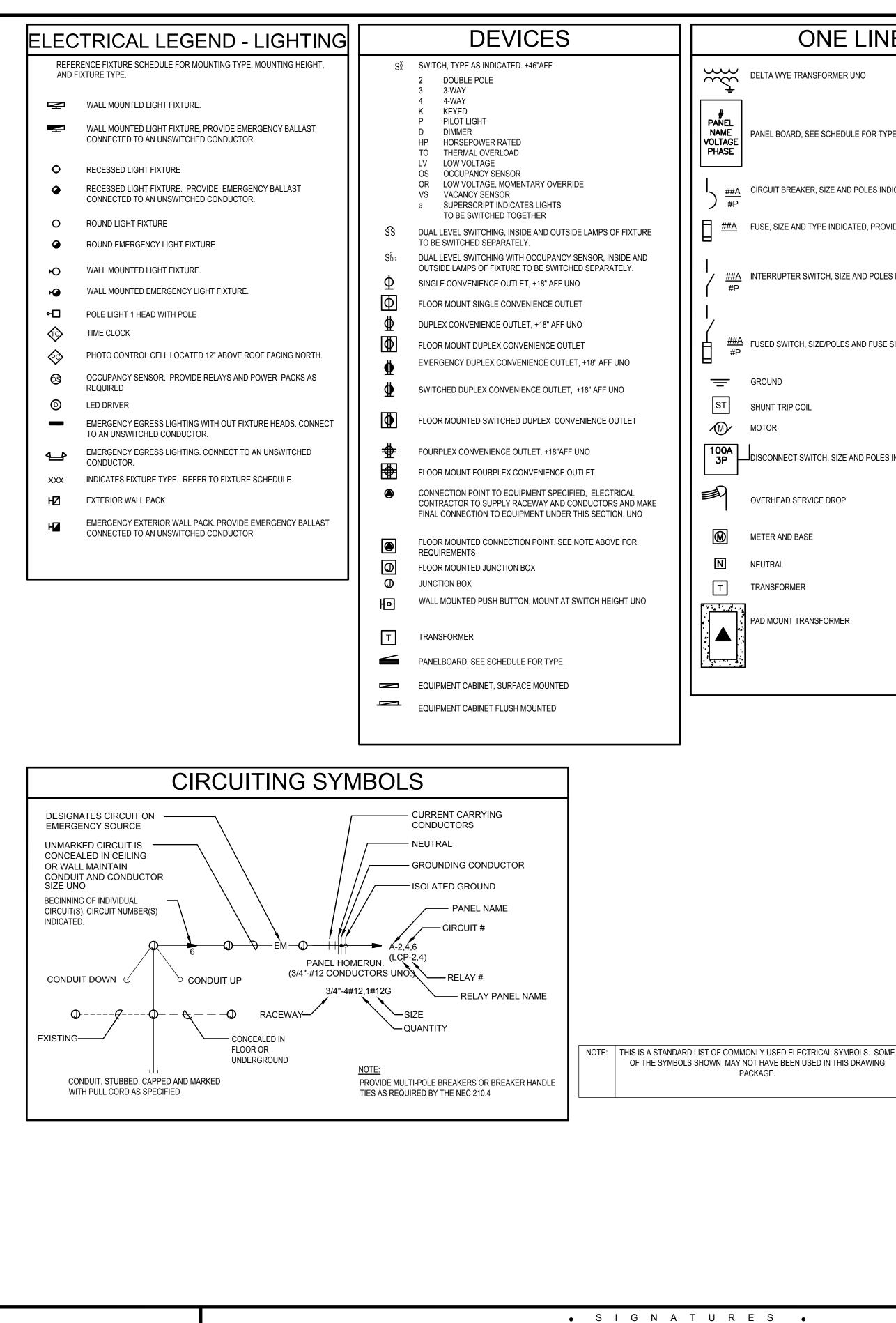
REFER TO TREE LIST SHT L2.1 FOR STREET TREE SPECIES AND SIZE. BOISE CITY FORESTRY REQUIRES WITNESSING TREE PLANTING DEMONSTRATION AT FIRST TREE INSTALLATION.

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

3 TREE PLANTING IN LAWN



Sheet L2.2



Revisions

Design By: NJS CAPITAL CITY DEVELOPMENT CORP

Date: 12/08

Drawn By: NJS

Capital City Development Corp

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

ONE LINE

•	DELTA WYE TRANSFORMER UNO
	PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
<u>\</u>	CIRCUIT BREAKER, SIZE AND POLES INDICATED
	FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
<u>A</u>	INTERRUPTER SWITCH, SIZE AND POLES INDICATED
<u>A</u>	FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
	GROUND
	SHUNT TRIP COIL
	MOTOR
	DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
	OVERHEAD SERVICE DROP
	METER AND BASE
	NEUTRAL
	TRANSFORMER
	PAD MOUNT TRANSFORMER

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

ELECTRICAL

ELECTRICAL GENERAL NOTES

- 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.
- 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.
- 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.
- TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

DFM

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

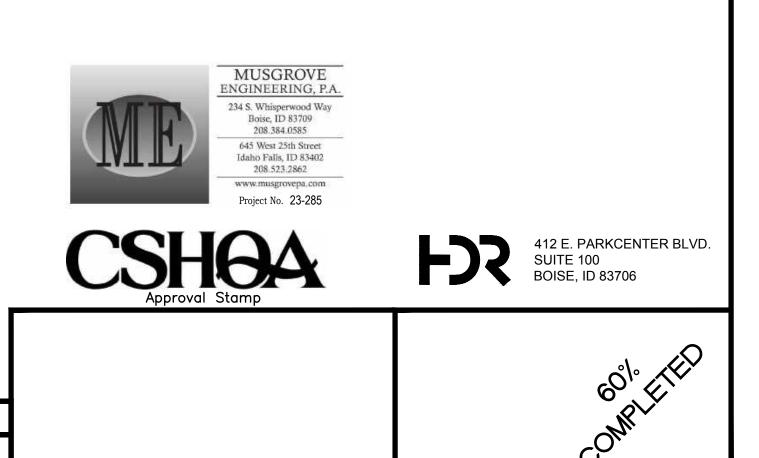
Boise City Street Light Plan Review Requirements

- 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.
- 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.
- 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.
- 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.
- UNDERGROUND WIRE SHALL BE #6 COPPER, AWG, THWN, 600 VOLT INSULATED (NO ALUMINUM WIRE.)
- ALL ELECTRICAL CONDUITS SHALL BE SCHEDULE 40, PVC, UL LABELED.
- A LOCATING WIRE IS REQUIRED IN ALL EMPTY PVC ELECTRICAL CONDUITS. FOR SERVICE CABINET INSTALLATIONS, AN ELECTRICAL PERMIT IS REQURIED

FROM BOISE CITY BUILDING DEPARTMENT.

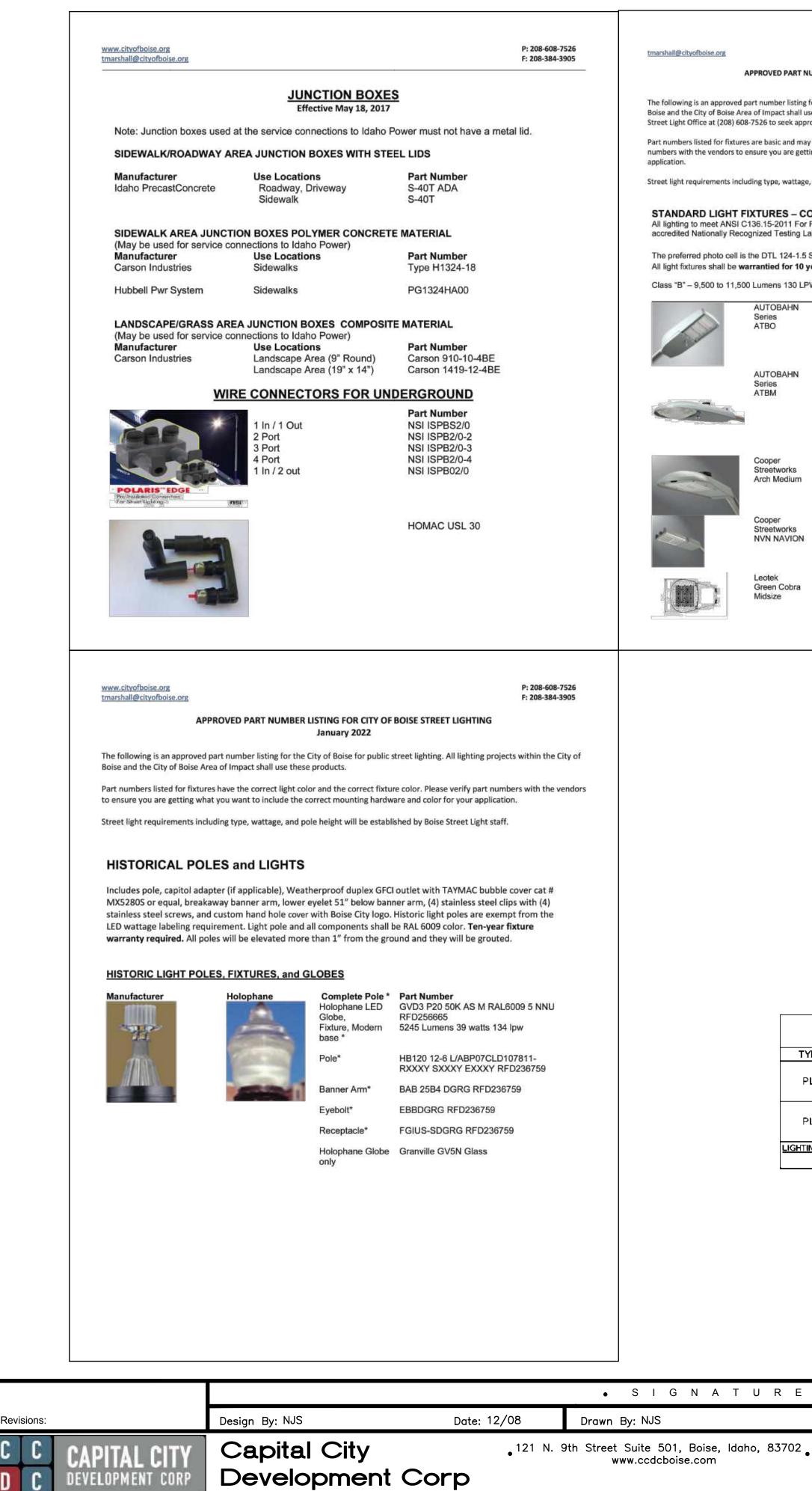
- ALL NEW UNDERGROUND CONDUIT FOR ALL STREET LIGHTING BETWEEN PULL BOXES SHALL BE A MINIMUM OF (2)2" CONDUITS. PROVIDE A MINIMUM (2)1" CONDUITS BETWEEN PULL BOXES AND THE ADJACENT LIGHT POLE. 18" MAX INSTALLATION OFFSET BEHIND BACK OF SIDEWALK. ALL CONDUITS SHOWN ARE
- REFER TO HISTORICAL STREET LIGHT POLE DETAILS, METERED UTILITY PEDISTAL DETAIL AND THE BOISE CITY
- REFER TO SPECIFICATIONS AND STANDARDS ON SHEET EG-2 THROUGH EG-7.

• DETAIL TITLE • ELECTRICAL COVER SHEET Date: 12/08 Survey By: NJS Date: 05/23 Project Number: 23056



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

Sheet EG-1

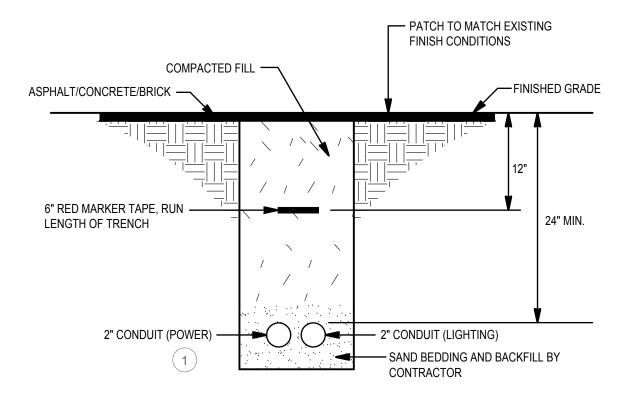


F: 208-384-3905 PPROVED PART NUMBER LISTING FOR CITY OF BOISE STREET LIGHTING Effective 7/1/2021 art number listing for the City of Boise for public street lighting. All lighting projects within the City of a of Impact shall use these products or an approved equal. Contact the City of Boise Public Works These light poles are for Arterials,						
Utter CodeWay LiGHT POLIS Excludion Acticular Autore lating for the City of black for pakies for pa						P: 208-608-7526 F: 208-384-3905
Hardwell eiting for the City of Belle for public street lighting. All giving projects within the City of Belle Ministreet Belle with approved equal. Careford and the City of Beel Ministreet Belle with approved equal. Careford and the City of Beel Ministreet Belle with approved equal. Careford and the City of Beel Ministreet Belle with approved equal. Careford and the City of Beel Ministreet Belle with a determined by beel Ministreet Belle with a determined by beel Ministreet Belle Ministreet Belle With approved equal. Careford and the City of Beel Ministreet Belle Ministreet Be	PPROVED PART NU		STREET LIGHTING	ROADWAY LIGHT POLES	Description	Application
Autrobatin Series ATBO 10,260 im 70 w 148 ipw ATBO P203 MVOLT R3 BK NL OPTIONAL ROADWAY LIGHT POLE Description Distribution Application Solution Application Solu	a of Impact shall use -7526 to seek appro are basic and may nsure you are gettir ding type, wattage, XTURES – CO 136.15-2011 For F gnized Testing Lai the DTL 124-1.5 S	e these products or an approved eq oval for products not listed below (a not indicate the correct color or oth ng what you want to include the cor and pole height will be established DBRA HEAD ARTERIAL AI field Wattage Identification and n b.	ual. Contact the City of Boise Public Works pproved equal). Ther features you need. Please verify part rect mounting hardware and color for your by Boise Street Light staff. ND COLLECTOR STREETS nust have a label attached from an OSHA		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	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
AUTOBAHN Series ATBO 10,260 lm 70 w 148 lpw ATBO P203 MVOLT R3 BK NL POLE Description 30 to 40-foot block trapered stel pole with a closs "B" block fixture. Autoback series ATBM Autobach a closs "B" block fixture. Application 30 to 40-foot block trapered stel pole with a closs "B" block fixture. Application a closs "B" block fixture. Application a closs "B" block fixture. Application a closs "B" block fixture. Application a closs and get in the way. Minimum NEC overhead clearances apply and is the responsibility of the contractor. AUTOBAHN ATBM 11302 lm 81 w 140 lpw ATBM P10 MVOLT R3 4B BK NL Foundation type "B" with J- bots fixture. Foundation type "B" with J- bots fixture. Foundation type "B" with J- bots fixture. Autobactures of these type poles are manufactures specifications in size and length. Base requirements of ISPWC drawing SD-1109, usually "B" rof Streetworks Arch Medium ARCH-M-PA2-60-740-U-T3-BK-20K- PR- 10X The installation shall meet the requirements of ISPWC drawing SD-1109, DI 109, ES D- 1117, and BC SD-1127. KW 30' Poles foel type P-302 P302-B015E-PF BLACK-AB- FBC S-HH (height offer first bend of 19"5") Cooper Streetworks NVVI NAVION 9699 lm 66 w 147 lpw NVN SA2A 740 U T3 BK 20K PR 10X Foel type P-302 P302-B015E-PF BLACK-AB- FBC S-HH (height offer first bend of 19"5") Foel type P-302 P302-B015E-PF BLACK-AB- FBC S-HH (height offer first bend of 13"3") Leotek Green Cobra 10525 lm 65 w 162 lpw GCM1 60J MV 40K 3R BK 105 WL Foel type P-302 P302-B015E-PF BLA			llation	OPTIONAL ROADWAY LIGHT	drawings SD-1109, BC SD-	408-68-SRTA01-F3
AUTOBAHN Series ATBM 11302 lm 81 w 140 lpw ATBM P10 MVOLT R3 4B BK NL Image: contractor image: con	Series	10,260 lm 70 w 148 lpw	ATBO P203 MVOLT R3 BK NL	POLE	30 to 40-foot black tapered steel pole with a class "B"	Under power lines or where other obstacles may get in the way. Minimum NEC overhead clearances
Cooper Streetworks Arch Medium 10367 Im 63w 164 Ipw ARCH-M-PA2-60-740-U-T3-BK-20K- PR- 10X ARCH-M-PA2-60-740-U-T3-BK-20K- PR- 10X Valmont 30' Poles Pole Type P-302 P302-B015E-FP-BLACK-AB- FBCS-HH (height after first bend at 19'5") KW 30' Poles Pole Type P-302 RTDP30-6.84-11-BLK-113DA SBP SBC (height after first bend at 19'5") Leotek Green Cobra 9699 Im 66 w 147 Ipw NVN SA2A 740 U T3 BK 20K PR 10X Valmont 30' Poles Pole Type P-307 Pale Type P-307 Pale Type P-307 Pale Type P-307 Pale Type P-307 RTDP30-6.84-11-BLK-113.8DA SBP SBC (height after first bend at 13'3")	Series	11302 lm 81 w 140 lpw	ATBM P10 MVOLT R3 4B BK NL		bolts that meet manufactures specifications in size and length. Base requirements as per drawing ISPWC SD-1109 usually "B" for	contractor. Manufactures of these type poles are KW or Valmont. These light poles are for arterials, collector, and local roads outside of a
Cooper Streetworks NVN NAVION 9699 Im 66 w 147 Ipw NVN SA2A 740 U T3 BK 20K PR 10X Leotek Green Cobra 10525 Im 65 w 162 Ipw GCM1 60J MV 40K 3R BK 105 WL Leotek	Streetworks	10367 lm 63w 164 lpw			requirements of ISPWC drawings SD-1109, BC SD- 1117, and BC SD-1127.	
NVN NAVION 9699 Im 66 w 147 lpw NVN SA2A 740 U T3 BK 20K PR 10X Pole Type P-307 Pole Type P-307 RTDP30-6.84-11-BLK-113.8DA SBP SBC Leotek Green Cobra 10525 Im 65 w 162 lpw GCM1 60J MV 40K 3R BK 105 WL GCM1 60J MV 40K 3R BK 105 WL MVA 40K 3R BK 105 WL Model Model 12'10'' Model Model Model Model 408-71-STRA01-F3	Streetworks			Anchor Base Detail	Pole Type P-302 P302-BOISE-FP-BLACK-AB- FBCS-HH	Pole Type P-302 RTDP30-6.84-11-BLK-113DA SBP SBC
Green Cobra 10525 Im 65 w 162 Ipw GCM1 60J MV 40K 3R BK 105 WL 12'10") 408-71-STRA01-F3		9699 lm 66 w 147 lpw	NVN SA2A 740 U T3 BK 20K PR 10X		<u>Pole Type P-307</u> P307-BOISE-FP-BLACK-AB- FBCS-HH	RTDP30-6.84-11-BLK-113.8DA SBP SBC (height after first bend at 13'3")
	Green Cobra	10525 lm 65 w 162 lpw		() Hondhole		

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

E S • Date: 12/08 Survey By: NJS Date: 05/23 APPROVED EQUIPMENT / DETA	702
	Е
• D E T A I L T I T L E •	

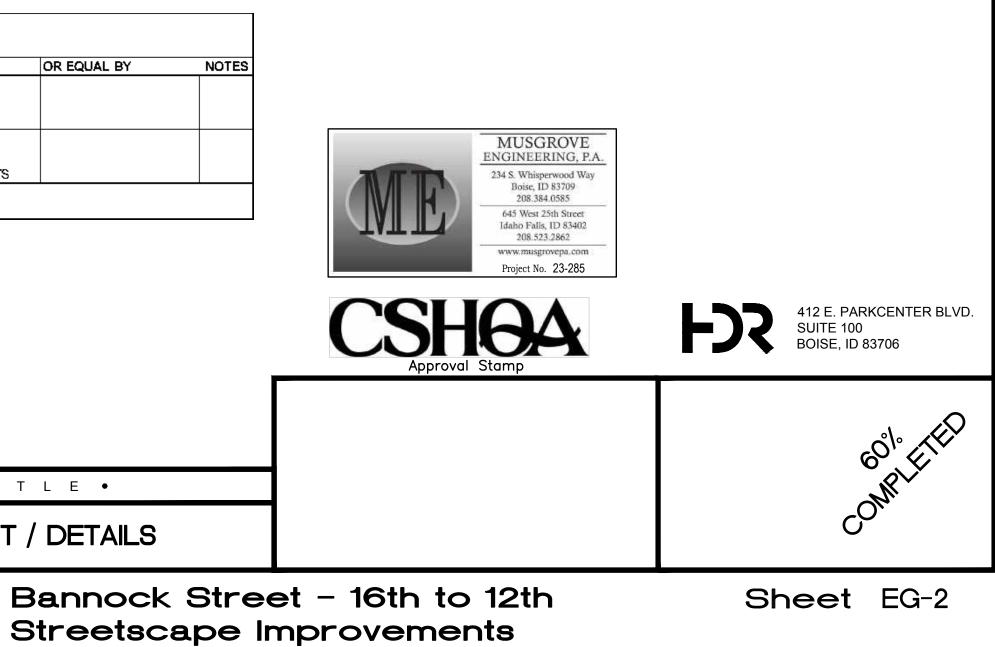
Project Name: Bannock Street - 16th to 12th



DETAIL NOTES:

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





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/IEEE 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 1.2 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 1.3 SYSTEM DESCRIPTION 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 2.2 CONNECTOR PRODUCTS 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

Revisions

- 3.1 WORKMANSHIP AND CONTRACTOR'S QUALIFICATIONS A. Only quality workmanship will be accepted. Haphazard or poor installation practice will be cause B. Install equipment grounding conductors in all feeders and circuits. 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.

Drawn By: NJS

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

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- 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.
- 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
- 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 guality 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 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.
- 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.
- 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

PART 2 - PRODUCTS

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

cables, receptacle ground connectors, and plumbing systems.

- 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.
- 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.
- 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.

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

with earth, concrete, masonry, crushed stone, and similar materials.

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

B. In raceways, use insulated equipment grounding conductors.

- C. Welded Connectors: Exothermic-welded type, in kit form, and selected per manufacturer's written END OF SECTION 16060
- D. Below grade compression fittings: Thomas & Betts, Series 52000, 53000, and 54000 or
- E. Use connector and sealant approved for purpose on all below grade clamp or compression type connections

A. Use only copper conductors for both insulated and bare grounding conductors in direct contact

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

F. Underground Grounding Conductors: Use copper conductor, No. 2/0 AWG minimum. Bury at

A. Comply with NEC Article 250, for types, sizes, and quantities of equipment arounding conductors.

unless specific types, larger sizes, or more conductors than required by NEC are indicated.

Date: 12/08

2.3 GROUNDING ELECTRODES

PART 3 - EXECUTION

3.1 APPLICATION

connections.

Development Corp

Design By: NJS

Capital City

least 24 inches below grade.

3.2 EQUIPMENT GROUNDING CONDUCTORS

rawi	n By: NJS Date: 12/0	08	Survey By: NJS Date	: 05		AL	SPECIFICATIONS
_	SIGNATURES •					~	
		í.l					NTINUED ON SHEET EG-4
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.	1.1	SECTION INCLUDES:		3.Locating wire only required for empty (spare) conduit.		the outlets on the poles.
	GENERAL	PART	1 - GENERAL		 Schedule 40 PVC conduit: UL approved, 1 inch minimum diameter. Standard manufactured bends of no less than 45 degrees. 	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
PART	3 - EXECUTION	SECT	ION 16521 - STREET LIGHTING	В.	Underground Conduit		 Place top of junction box flush with surrounding ground, concrete, or pavement.
	BARE COPPER GROUND CONDUCTOR Medium hard drawn copper conductor, # 4/0 AWG stranded (unless otherwise noted).	END (DF SECTION 16140		 Schedule 40 PVC conduit: UL approved, 1 inch minimum diameter (ground level to disconnect box), ¾ inch minimum diameter (disconnect box to luminaire). 	D	inches beyond the exterior of the box sides. Do not install in any driveway or travel way unless box is fully rated for traffic.
2.2	16130. BARE COPPER GROUND CONDUCTOR	A.	Internally clean devices, device outlet boxes, and enclosures. Replace stained or improperly painted wall plates or devices.		1.Galvanized metal conduit: UL approved	C	 Install the junction box on 6 in. bed of compacted ¼-inch crushed aggregate base that extends 4
	All shall be provided with fittings and accessories approved for the purpose. Refer to Section	3.5	CLEANING	2.5 A.	CONDUIT Above Ground	P	bends, wire splices, or where direct burial and conduit junctions occur.
	2 - PRODUCTS CONDUIT	C.	Replace damaged or defective components.	-	copper wire.	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
	This Section includes under slab conduits and related electrical work.	В.	operation. Test GFCI operation according to manufacturer's written instructions.		2.Between over-current protection fuse and luminaire: Minimum No. 10 AWG THWN insulated	3.2	JUNCTION BOX INSTALLATION
	SUMMARY	••••	Test wiring devices for proper polarity and ground continuity. Check each device to verify		 Between power source and the over-current protection source (located in the pole). Minimum No. 6 AWG THWN insulated copper wire. 	E	Keep copies of electrical permits from the State of Idaho or the applicable municipality on-site.
A.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.	3.4	FIELD QUALITY CONTROL	C.	2.0vernead installation only: Aluminum wire equivalent to copper wire will be allowed. Pole wiring.	D	 Verify pole, fixtures, electrical wiring, concrete, and materials delivered to the site meet the requirements of the Contract Documents.
	RELATED DOCUMENTS	C.	Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values.		 General: No. 6 AWG duplex with an ACSR neutral messenger. Overhead installation only: Aluminum wire equivalent to copper wire will be allowed. 	С	
PART	1 - GENERAL	В.	Connect wiring device grounding terminal to branch-circuit equipment grounding conductor.	В.			 6.Fire Hydrants: 10 feet side, 3 feet to the front. 7.Roadways: 18 feet vertical clearance for wires.
SECTI	ON 16113 - UNDER SLAB AND UNDERGROUND ELECTRICAL WORK	3.2 A.	CONNECTIONS Connect wiring device grounding terminal to outlet box with bonding jumper.		2.Wires to be color-coated per NEC Code. Phase tape not acceptable.		5.Structures: in accordance with National Electrical Safety Code.
END C	F SECTION 16060	~ -	size 18 text or engineer approved equal. Use matching label printer.		 Minimum standard for fuse system to power source: No.6 AWG copper, Type THWN - 600 volt, insulated. 		4.Curbing: 2 feet min., 6 feet max. from face of curb.
В.	Test ground system per Section 16040.		and on the inside of the face plate for switches; utilize durable wire markers or tags within all outlet boxes. Labels shall be Brother $\frac{1}{2}$ TZ tape, black ink on clear, extra-strength adhesive tape, with		CONDUCTOR Underground wire.		2.Primary or Secondary Power Wires: 10 feet vertical and horizontal. See SD-1122. 3.Power Junction Box: 3 feet.
A.	Inspect grounding and bonding system conductors and connections for tightness and proper installation.	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	2.4			1.Transformers: 10 feet, front, 2 feet, side and back. See SD-1122.
3.7	FIELD QUALITY CONTROL	3.2	IDENTIFICATION		2.Fuse Holder and Insulating Boot: In-line, waterproof, SEC Model 1791-DF or SEC Model 1791-SF or approved substitution.	В	
D.	Motors shall be connected to equipment ground conductors with a bolted solderless lug connection on the metal frame.		Install cover plates on switch, receptacle, and blank outlets.	ט.	1.Fuses for Boise City installation shall be fast acting - 100k RMS Amps-600VAC.	3.1 A	EXAMINATIONS Verify pole excavation location and depth matches plans prior to pole installation.
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.	F.	indicated. Protect devices and assemblies during painting.	R	1791-SF or approved substitution. Insulated fuse holders (in fused junction box), one per each 'hot' line.		
	grounding continuity. Provide grounding conductor sized per NEC through all raceway and conduit systems.	B. E.	Install wall plates when painting is complete. Arrangement of Devices: Unless otherwise indicated, mount flush, vertically, with height as		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		
В.	250 unless otherwise shown on the drawings. Install metal raceway couplings, fittings, and terminations secure and tight to ensure good	_	Install devices and assemblies plumb and secure.	,	line.		 Fixtures to have I.E.S. full cutoff distribution reflector. Acrylic or glass lens with internal refractor providing an E.I.S. Type III distribution.
	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	3.1	INSTALLATION	2.3 A.	FUSE HOLDERS Insulated fuse holders (installed at the base of each metal or fiberglass pole), one per each 'hot'		8. Medium cutoff reflector.
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	PART	3 - EXECUTION	E.		A	A. Fixture type and wattage as required by Boise City Public Works. See Attachment A on sheet EG-3 for approved products.
	EQUIPMENT GROUND		2.Plate-Securing Screws: Metal with head color to match plate finish.		All junction boxes to have a means to secure lid (i.e. bolt).		LIGHT FIXTURES
	in accordance with NEC system ground conductor size.		1.Weatherproof cover plate: While in use, gasketed, cast metal, hinged device covers.	C.	Junction boxes in landscaped areas may be plastic or fiberglass.	N	I. See attachment A for approved products.
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	2.3 A.	WALL PLATES Single and combination types match corresponding wiring devices.	А. В.	Junction boxes in sidewalks and similar areas are to be concrete with steel lid.	L	. Cabinet supplied with a meter base as recommended by the manufacturer.
В.	Ground generators or transformers with secondary voltage 600 volt or less as follows: 1.3 phase, 4 wire Wye connected: ground neutral point	0.0		2.2 A.	JUNCTION BOXES Junction boxes in driveways or roadways to be concrete with traffic rated lid.	J	 Equipped with a test switch to override photo electric control. Cabinet supplied with a pad mount base available for concrete foundation installation.
5	conditions.		GFCI Receptacles: Duplex convenience receptacle with integral ground fault current interrupter. White color		connecting utility.	l. ,	Service cabinet rated 120/240 volt in either 100 amp or 200 amp main breaker.
	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	2.2	RECEPTACLES	В.	Conform with the National Electrical Code and meet all local codes and requirements of the	Н	 Factory wiring to be 600 volt rated copper with pressure type terminal required for (No. 8 through No. 2 AWG) wire.
3.5	SYSTEM NEUTRAL GROUND		f. Cooper Wiring Devices g. Or approved equal.	A.	All materials to have Underwriter Laboratories, Inc. seal of approval or meet the requirements of the National Electrical Manufacturer's Association, as appropriate.		C. Vandal-resistant enclosure with side-hinged door and dead front.
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.		e. Pass & Seymour/Legrand; Wiring Devices Div.	2.1	GENERAL		Plug-in breaker with each breaker having a minimum 30 amp, 2 pole rating.
~	indication that a connector has been adequately compressed on grounding conductor.		d. Leviton Manufacturing Co., Inc.	PART	T 2 - MATERIALS		 Complies with Caltrans Specification ES-2E. 12 circuit copper bussed interior.
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		c. Hubbell, Inc.; Wiring Devices Div.	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.	C D	, , , , , , , , , , , , , , , , , , , ,
	manufacturer's published torque-tightening values.		a. Bryant Electric, Inc.b. GE Company; GE Wiring Devices.	П	bedding suitability and placement.		8. NEMA Type 3R rainproof enclosure with padlock hasp.
E.	grounding bushings and bare grounding conductors, unless otherwise indicated. Tighten screws and bolts for grounding and bonding connectors and terminals according to		1.Wiring Devices:	в. С.	The conduit trench installation shall be inspected for the depth of trench and verification of the		 Constructed of 12 gage zinc coated steel with hood and covers of 14 gauge zinc coated steel.
	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	A.	Manufacturers:	B.	concrete basis. Visual confirmation of the backfill compaction around the pole base.	2.16	S SERVICE PEDESTAL
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	2.1	MANUFACTURERS	н.о А.	Street light installation inspections will be required for the concrete base reinforcing for poles with		 Prefabricated bases for historical poles will be allowed with approval of the local agency.
5.	grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.	PART	2 - PRODUCTS	1.8	INSPECTIONS	2.15	PREFABRICATED BASES
C.	puffed up or that show convex surfaces indicating improper cleaning are not acceptable. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type	A.	Submit shop drawings and product data.	В.	No privately owned electrical systems, sprinkler irrigation systems, outlets, or area lighting will be allowed to connect to any public street light systems.	D	 Base dimensions and construction shall conform to Standard Drawings SD-1109.
В.	Exothermic-Welded Connections: Comply with manufacturer's written instructions. Welds that are	1.4	SUBMITTALS	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	 Steel Reinforcement to be deformed bar conforming to Section 702 - Concrete Reinforcement. Pole anchors to be conform to requirements stipulated by pole manufacturer.
	5.Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.	A.		1.7	GENERAL RESTRICTIONS		Concrete to be Class 3000 psi meeting the requirements of Section 703 - Cast-in-Place Concrete.
	 Make aluminum-to-galvanized steel connections with tin-plated copper jumpers and mechanical clamps. 	1.3	DEFINITIONS		prevent shock, damage or excessive exposure to sunlight and weather.	2.14	CONCRETE POLE BASES
	 Make connections with clean, bare metal at points of contact. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps. 		SUMMARY This Section includes receptacles, switches, and finish plates.	1.6 A.	DELIVERY, STORAGE AND HANDLING Deliver, store, and handle materials in accordance with the manufacturer's recommendations, to		2.Poles shall be supplied with a manufacturer's adaptor for installation of the approved banner arms.
	points closer to order of galvanic series.	1.2	SUMMARY	10			 Poles shall be supplied with an electrical outlet as shown on details on sheet E-9. Poles shall be supplied with a manufacturer's adaptor for installation of the approved banner
	will be galvanically compatible. 1.Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact	W.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.	В.	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.	U	 Additional pole requirement for historic lights installed within the Capitol City Development Corporation (CCDC) shall be:
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	1.1	RELATED DOCUMENTS	A.	Accurately record locations of constructed street lights and other encountered utilities in relation to existing permanent benchmarks.	-	Antique is DGRG, for Continental it is RAL 6009.
3.4	CONNECTIONS	PART	1 - GENERAL	1.5	PROJECT RECORD DOCUMENTS	С	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
	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.		ION 16140 - WIRING DEVICES		acceptance. The warranty must state that the products supplied were free of defects and suitable for the uses set forth in the Specifications.	В	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.
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		Provide one warning tape (see 3.2.H. above) for each 12 inch width of concrete duct bank.	D.	Submit warranty for all supplied materials and workmanship for a period of one year from final		existing Historical poles in the Historical Lighting District. Metal poles shall have a powder coat finish in accordance with ASTM B-117.
-	parts. Install straps only in locations accessible for maintenance.		concrete pour. Provide one warning tape (see 3.2.H. above) for each 12 inch width of concrete duct bank.	В. С.	······································	,	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
	hangers and supports is not transmitted to rigidly mounted equipment. Use exothermic-welded connectors for outdoor locations, unless a disconnect-type connection is required; then, use a bolted clamp. Bond straps directly to the basic structure taking care not to penetrate any adjacent		Provide plastic spacers at maximum 5'-0" centers to maintain 3 inch spacing between conduits. Drive two reinforcing bars to anchor the conduits at 10'-0" on centers to prevent floating during		Section.		A. Historical style metal poles shall be true copies, approved by Boise City, Department of Public
C.	Bonding Straps and Jumpers: Install so vibration by equipment mounted on vibration isolation	3.3	CONCRETE DUCT BANK CONSTRUCTION	1.4 A.	SUBMITTALS Submit shop drawings and manufacturers' cut sheets for materials to be installed under this		2 HISTORICAL POLES
В.	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.		top of conduit, during back filling operation.			C D	· · · · · · · · · · · · · · · · · · ·
5	otherwise indicated. Make connections without exposing steel or damaging copper coating.	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		Idaho State Electrical Code. City and Local Agency Codes.	B	
	indicated. 2.Interconnect ground rods with grounding electrode conductors. Use exothermic welds, unless	G.	Burial depths of conduits shall comply with the NEC (minimum).		National Electrical Code (NEC)	A	A. Boxes shall conform to National Electrical Code (NEC), Article 370-15.
	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	F.	conduit, shall be pulled through each conduit. Install 1/8 inch diameter pull line in each underground conduit.	1.3	REFERENCES	2.7	DISCONNECT BOXES (as required by governing agency)
	TALLATION Ground Rods: Where indicated, install at least three rods spaced at least one-rod length from	E.	After completion of concrete encased duct bank, a 12 inch mandrel, 14 inch less in diameter than a	F.	Section 703 - Cast-in-Place Concrete.		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 look photo-control devices.
	Provide green insulated ground conductor to exterior post light standards.	C.	Stagger conduit couplings by a minimum of 12 inches. All risers to grade shall be rigid steel. All rigid steel conduits shall be encased in 3 inch minimum concrete envelope.		Section 307 - Street Cuts and Surface Repair. Section 308 - Boring and Jacking.		OLPC to have secondary zenier 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
D.	Nonmetallic Raceways: Install an equipment grounding conductor in nonmetallic raceways bonded to outlet or equipment, sized per Section 250 of the NEC.		lengths inside and outside building line. Ream the smaller inside diameter conduit smooth to prevent conductor damage.		Section 306 - Trench Backfill.		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.
_	3.Receptacle circuits.	В.	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	B.	Section 305 - Pipe Bedding.		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 lux± 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
	1.Feeders and branch circuits. 2.Lighting circuits.	Λ.	Multiple runs shall maintain 3 inch minimum separation between runs. Plastic conduit shall not be installed in rock base.	1.2 A.	RELATED SECTIONS Section 301 - Trench Excavation.	В	B. Outdoor Lighting Photoelectric Controls (OLPC) to be of a solid state crystal sensing type with
0.	addition to those required by NEC:	3.2 A	CONDUIT INSTALLATION Plastic conduit shall be installed on 2 inch sand base and covered by 2 inch sand back fill.		-	A	A. Photoelectric (PE) controls to be twist lock type base with a label to mark installed and removed dates
c	Install insulated equipment grounding conductor with circuit conductors for the following items, in			A.	Materials and installation of street lights.	2.6	PHOTOCELLS

Project Number: 23056

mark installed and removed

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

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 Stam

412 E. PARKCENTER BLVD.

SUITE 100

BOISE, ID 83706

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 PART 1 GENERAL 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
- 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 enter 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
- 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.

separate circuit for the outlets on the poles.

- 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'
- 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.
- 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.

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- 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

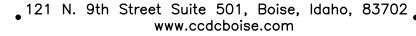
- SECTION 16800 ELECTRICAL DEMOLITION AND REPAIR
- 1.1 RELATED DOCUMENTS
- Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- This Section includes electrical demolition and repair. 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
- DEMOLITION 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.
- 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
- 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

Design By: NJS

Date: 12/08

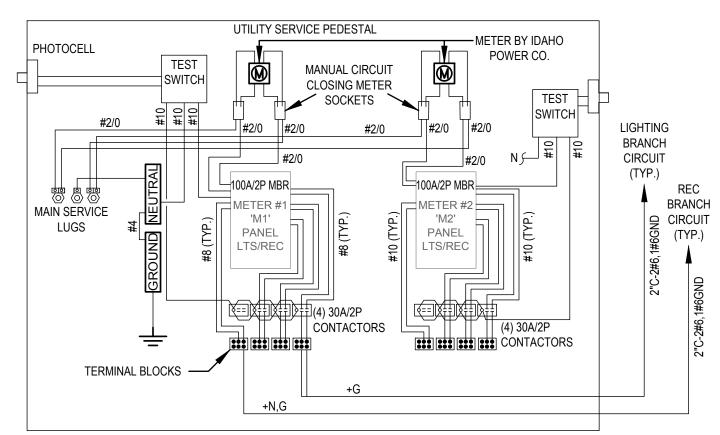
Drawn By: NJS



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Development Corp

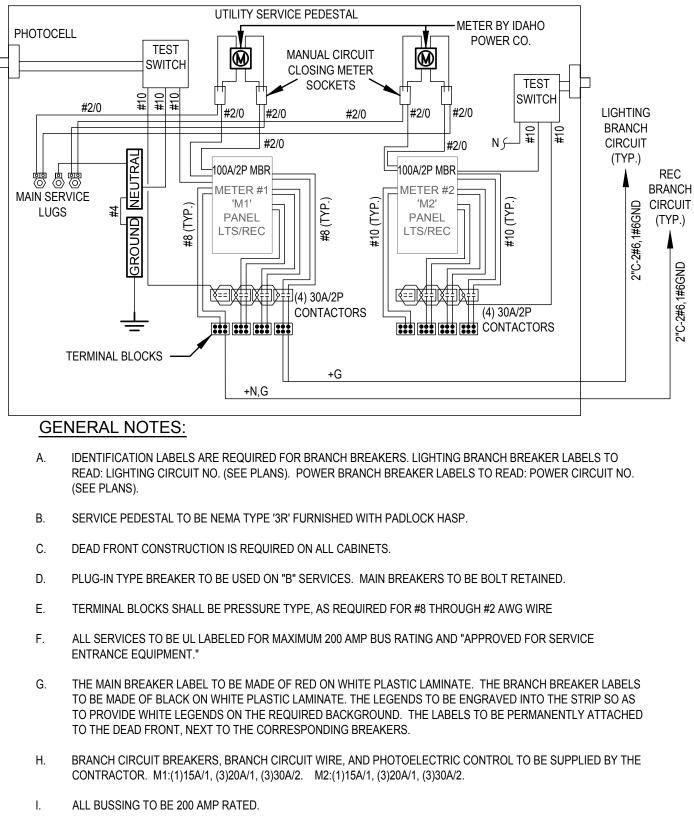
Capital City



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.
- DEAD FRONT CONSTRUCTION IS REQUIRED ON ALL CABINETS. C.
- PLUG-IN TYPE BREAKER TO BE USED ON "B" SERVICES. MAIN BREAKERS TO BE BOLT RETAINED.
- 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."
- THE MAIN BREAKER LABEL TO BE MADE OF RED ON WHITE PLASTIC LAMINATE. THE BRANCH BREAKER LABELS G. 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.
- BRANCH CIRCUIT BREAKERS, BRANCH CIRCUIT WIRE, AND PHOTOELECTRIC CONTROL TO BE SUPPLIED BY THE Η. 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.
- WIRING TO BE THWN/MTW 600V 90°C RATED

1 METERED UTILITY PEDESTAL DETAIL 15TH

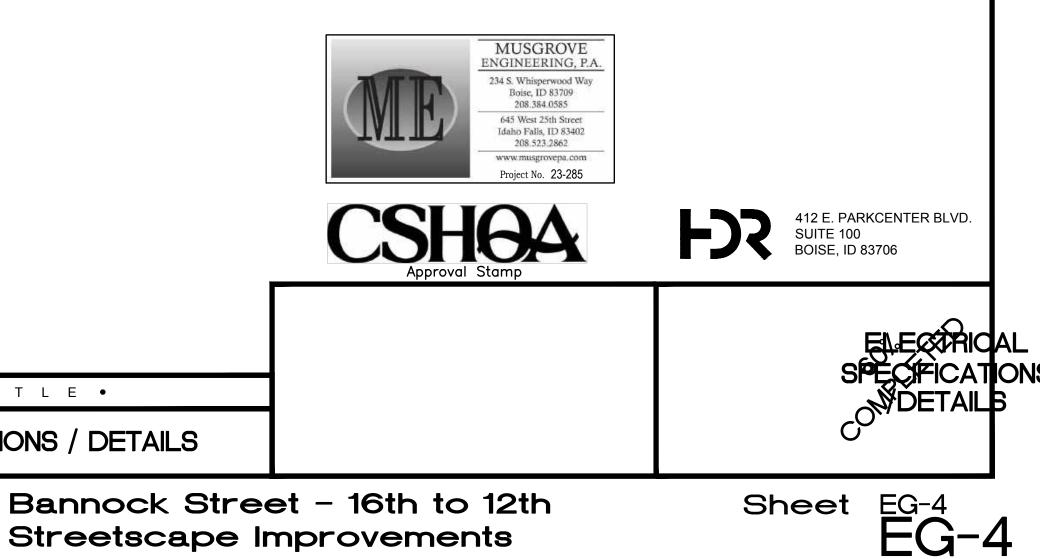


WIRING TO BE THWN/MTW 600V 90°C RATED

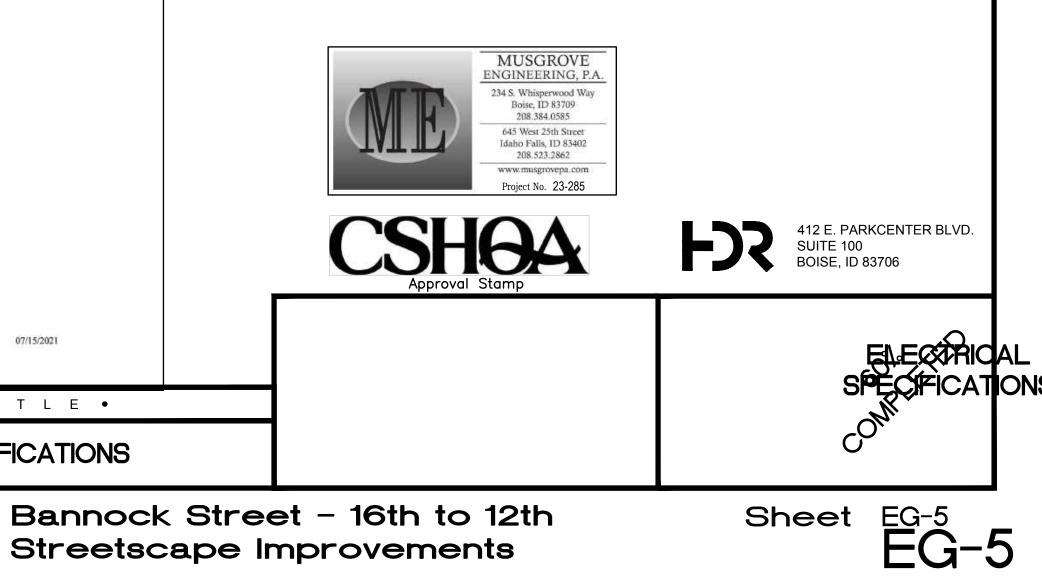
2 METERED UTILITY PEDESTAL DETAIL 13TH

02				
Date:	12/08	Survey By: NJS	Date: 05/23	
E S	•			ELECTRICAL SPECIFICATIONS / DETA
				• D E T A I L T I T L E •
			_	

Project Name: Bannock Street - 16th to 12th



14	Design By: NJS Capital City	Date: 12/08	Drawn By: NJS 9th Street Suite 501, Boise, Idaho, www.ccdcboise.com	Date: 12/08	Survey By: NJS	Date: 05/23	Project Na	
			• SIGNATU				ELECTRICAL	SPECIFICATIC
							• DETA	ILTITLE
Boise STD REV to ISPWC 2020	00820 - 2	07/15/2021	Boise STD REV to ISPWC 2020	00820 - 4	07/15/2021	Boise STD REV to ISPWC 2020	00820 - 6	07/15/2021
2.11 FIBERGLASS POLES	NOT USED FOR BOISE CITY INST	ALLATIONS		onnectors from the Street Light Aj				
for decorative fixtures Approved poles listed	s (approved by the City) are to be round. See S I on the city web page.	street Light		g installations within the City of B larger wire shall be a split-bolt ty				
F. Poles may be square,	round or tapered round. Decorative poles are		B. Splice underground	wire only at junction boxes adjace	ent to pole bases.			
Add the following paragr			Modify paragraph B an	d add paragraph F.				
2.10 METAL POLES In paragraph C, Direct bu	urial poles are not allowed		3.3 WIRE OR CONDUCT	ORS				
	OT USED FOR BOISE CITY INSTALLAT	IONS.	Modify paragraph D:	Do not install in any driveway or r	roadway.			
INSTALLATIONS.			3.2 JUNCTION BOX INS	FALLTION				
	OOD POLES NOT USED FOR BOISE CI	ITY	PART 3 WORKMANSHII	í.				
	e only required for overhead wiring.				4 (100) (22A)			
Add paragraph D	<i>.</i>		95		1 Carl			
THWN-2 insulate 2.7 DISCONNECT BOXES	en a l'onna de la contra c				5			
D.2 Change # 8 AWG	G THWN insulated copper wire to # 10 AWG	THWN or						
Phase "A" shall b	be colored Black, phase "B" shall be colored I actors shall be in Blue and White.	Red, and the						
B.2 Add the followin	ig sentence.							
600VAC. 2.4 CONDUCTOR				t shall be the City of Boise Histor				
	ng sentence. City installation shall be fast acting – 100k RN	MS Amps-	If there is not suffi	cient area on the bottom of the fix just below the fixture. See examp	xture, the wattage label shall be			
600VAC.	•	2.201.0000 F .70	with the fixture wa	attage using black labels with whi i inches high on the bottom of the	te numbering a minimum of 1.5			
A.1. Add the followin Fuses for Boise C	ng sentence. City installation shall be fast acting – 100k RN	ANDS-	wattage using a lal	bel meeting ANSI C136.15-2011		EXAMPLE OF THE	ANSI C136.15-2011 LED WATTAGE LAI	BEL
2.3 FUSE HOLDERS			and for Arterial/Co	ollector is 4000 K er 2015 all fixtures installed shall l	he labeled with the fixture		LIGHT SERVICE PEDESTAL BASE	
A DAMAGED IN CONSISTENCE OF A DEAL OF A DAMAGED IN	e Idaho Power service connections may not us	se a metal lid.	D. LED lighting color	temperature for residential street	s to arterial streets is 3000 K		AL STREET LIGHT PLACEMENT	
2.2.E See city website		14		5500 lumen, and Class "B" Colle			CAL POLE BASE DETAIL	
	n landscape areas may be plastic or fiberglass. es to have a means to secure lid with 3/8" bolt.		A. Fixture light level	as required by Boise City Public V	Works. Class "A"	BC SD-8 HISTORI	CAL POLE DETAIL	
Add the following:			2.16 LIGHT FIXTURES Replace paragraph A	& D. with the following and add C	3.:	ADDITIONAL CITY	OF BOISE STANDARD DRAWINGS AT	TACHED
Boise STD REV to ISPWC 2020	00820 - 1	07/15/2021	Boise STD REV to ISPWC 2020	00820 - 3	07/15/2021	Boise STD REV to ISPWC 2020	00820 - 5	07/15/2021
bolts down with	e following: n sidewalks and similar areas to be concrete th a 3/8" bolt. This lid must be bonded to the equ he use of a #6 compression lug.					Service pedestals conne 1126 with an additional	ected to historical street lights in the downtow meter connected to the electrical outlet circu will need to meet this requirement. See Stree	it. Contact Public Works to
2.2.A Replace with the Junction boxes in	e following: n driveways or roadways are not allowed.		C. See Street Light Ap	proved list on the city web page f	or approved products.	In paragraph B., Add th	e following sentence:	
2.2 JUNCTION BOXES			Add the following:			Modify paragraph A: S BC SD-1127.	ervice pedestals shall be installed in accordan	nce with standard drawing
PART 2 MATERIALS			2.15 SERVICE PEDESTAL	ž		3.11 SERVICE PED	ESTAL	
STREET LIGHTING				ASES NOT USED FOR BOIS	E CITY INSTALLATIONS.	"G, H, I, J" - N	OT USED FOR BOISE CITY INSTALLA	ATIONS
SECTION 1102			2.13 BOLLARDS NOT U	SED FOR BOISE CITY INSTA	LLATIONS.		reference to wood and fiberglass poles. Ference to City of Boise standard drawing BC	C SD-11.
REVISIONS TO THE STANI	DARD SPECIFICATIONS		the building or		Free and a state state into a	3.9 POLE INSTAL		
	ity street light installations are on the city web pproval for any substitute products.	page. Contact	2. Poles shall be s	upplied with a manufacturer's ada r arms and a banner arm. The ada	aptor for installation of the	1 0 1 .		
	or shall notify the City when street light is read			upplied with an GFCI receptacle v as the pole as shown on standard o	with a metal bubble cover having		erence to City of Boise standard drawing BC	SD-9 Historical Pole base.
depth and bedding, and for the p	ions will be required for the concrete base rein pole. Contact City of Boise at 208-608-7526 for	or inspections, 48		uirement for historic lights install oration (CCDC) shall be:	ed within the Capitol City	Standard Drawings. 3.8 CONCRETE PO		
	nction box between the power source and the			isting poles, approved color mix f AL 6009 Fir Green Order #017479		3.7 GROUNDING Add to paragraph D. re	ference to City of Boise standard drawing BC	C SD-1117 and ISPWC
	ligations and responsibilities addressed within d has determined that all street lights are to be		website for approve		Tawing DC 3D-8). See City		BOXES NOT USED FOR BOISE CITY	INSTALLATIONS.
to ensure full understanding of t	the requirements of this Project. Failure to do	so does not relieve		the City of Boise shall be cast alu ise Historical Pole (see standard d			e a separate circuit for the outlets on the pole	
Code, the Idaho Standards for P	Public Works Construction (ISPWC), and the S Revisions. Contractor shall become familiar w	Supplementary		ave a powder coat finish in accord			l street lights within the Capital City Develop uit shall be installed from the street light to t	
	equirements of the most current edition of the	National Electrical	shall have the same	surface texture and have the same the existing Historical poles in the	e Dark Green (RAL 6009) color	Add the follow		
GENERAL INFORMATION				al poles shall be true copies, approfite the original Old Boise Historical			hich the conductors are not installed.	
	STREET LIGHTS		Replace with the follow	ang.		Modify iten	5 to read: Location wires only required to b	be installed inside the
	FOR ISPWC DIVISION 1102		and the first of the second	vina:		B. Underground		



tmarshall@cityofboise.org		P: 208-608-7526 F: 208-384-3905	tmarshall@cityofboise.org
	CITY OF BOISE SPECIFICATIONS FOR LIGHT EMITTING DIODE (LED) STREET LIG Effective 1 Feb, 2019		Shall meet the Chromati 1. The standard colo
1. LIGHT EMITT	ING DIODE (LED) LUMINAIRES FOR ROADWAY TYPE	E 3 ILLUMINATION	to the following o
A. <u>Testing o</u>	and Compliance / Manufacturer		2. Nominal Correlat Arterial and Collec
	uminaire must be listed by a National Recognize ed by the U.S. Department of Labor and recognized b		3. No more than plus appearance throu
curre	bel must be clearly visible on the luminaire that s ent range as well as independent third-party te CSA or equivocal.		 Must have a minir Intensity and Chro
	uminaire must be listed and labeled by a NRTL a ttions.	s being suitable for use in wet	6. The luminaire mus
4. The l	uminaire must have RoHS compliant light source	e and drivers.	The luminaire will a operation based or
	uminaire must be in compliance with Electro M virements as defined by FCC 47 Sub Part 15.	agnetic Interference (EMI)	 E. <u>Warranty</u> 1. The entire luminaire a
must	uminaire must be manufactured in ISO 9001 ce t provide a copy of company workmanship s trol manual.	사는 것 같아요. 전 같아요. 안 집 같아요. 안 집 같아요. 한 것은 것은 것 같아요. 같아요. 같아요. 같아요. 같아요. 같아요. 같아요. 말 같아요. 말 같아요. 말 같아요. 말 같아요. 말 말 같아요. 말 ? 말 ? 말 ? 말 ? 말 ? 말 ? 말 ? 말 ? 말 ? 말	2. If more than 10% of th
7. Man	nufacturer must have product support represen	itation within the Northwest	must be repaired or re
regio		n in business at least two times	2. LIGHT EMITTING DIODE (LED)
the l	nufacturer must be able to show they have been length of warranty offered on their product or	그는 사람이 집에 집에 집에 집에 집에 가지 않는 것이 아직에 집에 있는 것을 다 가지 않는 것이 같다. 것이 가지 않는 것이 아직 것이 같다.	A. Testing and Compliance I 1. The luminaire must b defined by the U.S. De
B. <u>Fixture C</u>	en e seven anno e contratte. Nettre - e trattemente acche alle alle en a la fince contra d'accesso de constituente de constituente accesso a		2. A label must be clear
	sing and heat sink constructed out of Aluminum ardware will be corrosion resistant.	1.,	current range as we UL, CSA or equivoca
	re will not weight more than 44 lbs. when fully as	ssembled.	3. The luminaire must b
	gn will not trap water.		locations. 4. The luminaire must h
5. When	n installed, simple access to internal componen ector). Approved fixtures for installation are c		 The luminaire must b requirements as defi
6. Provi	re and materials listing on the City of Boise we isions for a 2 or 4-bolt slip fitter type mounting or brackets. Slip fitter mount shall allow 4 inches of	n nominal 2-inch (2 3/8 OD)	 The luminaire must b provide a copy of c
www.citvofboise.org tmarshall@citvofboise.org		P: 208-608-7526 F: 208-384-3905	www.citvofboise.org tmarshall@citvofboise.org
in the	e luminaire mounting assembly.		manual.
7. The r	mounting assembly will permit any necessary ac naire with the roadway for proper light distributi		 Manufacturer must region.
	passive cooling method can be used to manage engine and power supply.	ge thermal output of the LED	8. Manufacturer must the length of warrar
9. Fixtur grea	re will have a completely sealed optical system ater.	with an IP rating of 65 or	9. Manufacturer must and photometric IES
	re to have NEMA Photocontrol receptacle for IA photo cell.	either NEMA shorting cap or	B. Fixture Construction
11. Fixtur	re shall provide a type 3 light distribution patte	m.	1. Housing and heat sin
C. <u>Electrica</u>	Il Requirements		2. All hardware will be a
	naire will fully operate in an ambient temperatu 04°F).	ure range of -30°C to 40°C (-22°F	 Fixture will not weigh Design will not trap v
2. Powe	er supply (electronic driver) will be integral to the	fixture.	5. Fixture must be cap Historic Light Pole, s
3. The p hertz	power supply (electronic driver) will operate with z.	in 100 to 300 VAC (rms) at 50/60	Current approved p Materials" list on the
	oower supply (electronic driver) will have a powe harmonic distortion of 20% or less at full load.	r factor of .90 or greater and a	6. The mounting assem luminaire with the re
5. The p	oower supply (electronic driver) will have thermo	al overload protection.	7. Only passive cooling light engine and pov
	wer supply (electronic driver) with a rated life of rated at an ambient temperature of 25°C (77°F).		C. Electrical Requirements
7. The p	oower supply (electronic driver) will have self-lim over load protected.		1. Luminaire will fully or to 104°F).
8. The p grea	power supply (electronic driver) will be fully incas ater.	ed with IP rating of 65 or	2. Power supply (electro
9. Surge rated	e protection device, incorporating a circuit mode d to withstand 10kV of transient line surge, separ	rate from the power supply	 The power supply (el hertz.
	ctronic driver), that can easily be replaced but stil rminal block for terminating pole wiring to the l		 The power supply (el total harmonic distor
term	ninal block shall be a 3 station, tunnel lug termine ommodate #6 thru #18 AWG wire.		5. The power supply (el
D. LED Perfo	ormance Requirements		 A power supply (electrony operated at an amb
			SIGNATUR

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

www.cityofboise.org tmarshall@cityofboise.org

and overload protected.

greater.

mechanisms.

D. LED Performance Requirements

based on TM-21 data.

be repaired or replaced.

E. Warranty

1. Shall meet the Chromaticity requirements as follows:

3. Nominal Correlated Color Temperature, CCT = 5000K

5. Must have a minimum Color Rendering Index (CRI) of 70

appearance throughout project installations.

year warranty from the date of installation.

7. The power supply (electronic driver) will have self-limited short circuit protected

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.

NEC electrical codes, These connections must be robust and utilize vibration resistant

10. Connections shall be accomplished using standard connections and fittings, meeting

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.

4. No more than plus or minus 300 K variance between fixtures to provide a uniform

6. Intensity and Chromaticity must be confirmed by an Independent test lab.

8. The luminaire will deliver an average 90% of initial lumens after 75,000 hours of operation

1. The entire luminaire assembly including material, workmanship, finish, photometrics,

2. If more than 10% of the individual LEDs within the warranty period the luminaire must

labor, power supply, surge protectors, and LED modules will have a minimum of ten (10)

7. The luminaire must have a minimum efficacy of 115 lumens per watt.

8. The power supply (electronic driver) will be fully incased with IP rating of 65 or

icity requirements as follows:

for the LED luminaire shall be white. The colors shall conform color regions based on the 1931CIE chromaticity diagram.

ted Color Temperature, CCT = 3000K for Residential and 4000K for ctor streets.

s or minus 300 K variance between fixtures to provide a uniform ughout project installations.

mum Color Rendering Index (CRI) of 70

omaticity must be confirmed by an Independent test lab.

t have a minimum efficacy of 112 lumens per watt.

leliver an average 90% of initial lumens after 60,000 hours of on TM-21 data.

ssembly including material, workmanship, finish, photometics, labor, protectors, and LED modules will have a minimum of ten (10) year ate of installation.

he individual LEDs fail within the warranty period, the luminaire eplaced.

LUMINAIRES FOR HISTORIC DECORATIVE ILLUMINATION Manufacturer

be listed by a National Recognized Testing Laboratory (NRTL) as epartment of Labor and recognized by OSHA.

Inly visible on the luminaire that states operating voltage and Il as independent third-party testing laboratory approval, i.e.

be listed and labeled by a NRTL as being suitable for use in wet

nave RoHS compliant light source and drivers.

be in compliance with Electro Magnetic Interference (EMI) ned by FCC 47 Sub Part 15.

be manufactured in ISO 9001 certified facility and must company workmanship standards and or quality control

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

have product support representation within the Northwest

be able to show they have been in business at least two times nty offered on their product or 10 years, whichever is less.

nave website with downloadable specification sheets files.

k constructed out of Aluminum.

orrosion resistant.

more than 50 lbs. when fully assembled.

Boise website. Decorative Cast pole drawing BC SD-8.

adway for proper light distribution.

ver supply.

erate in an ambient temperature range of -30°C to 40°C (-22°F

nic driver) will be integral to the fixture.

ectronic driver) will operate within 100 to 300 VAC (rms) at 50/60

ectronic driver) will have a power factor of .90 or greater and a rtion of 20% or less at full load.

ectronic driver) will have thermal overload protection.

tronic driver) with a rated life of 70,000 hours with a luminaire pient temperature of 25°C (77F).

• DETAIL TITLE •

ELECTRICAL SPECIFICATIONS

Date: 12/08 Survey By: NJS

ES.

Date: 05/23

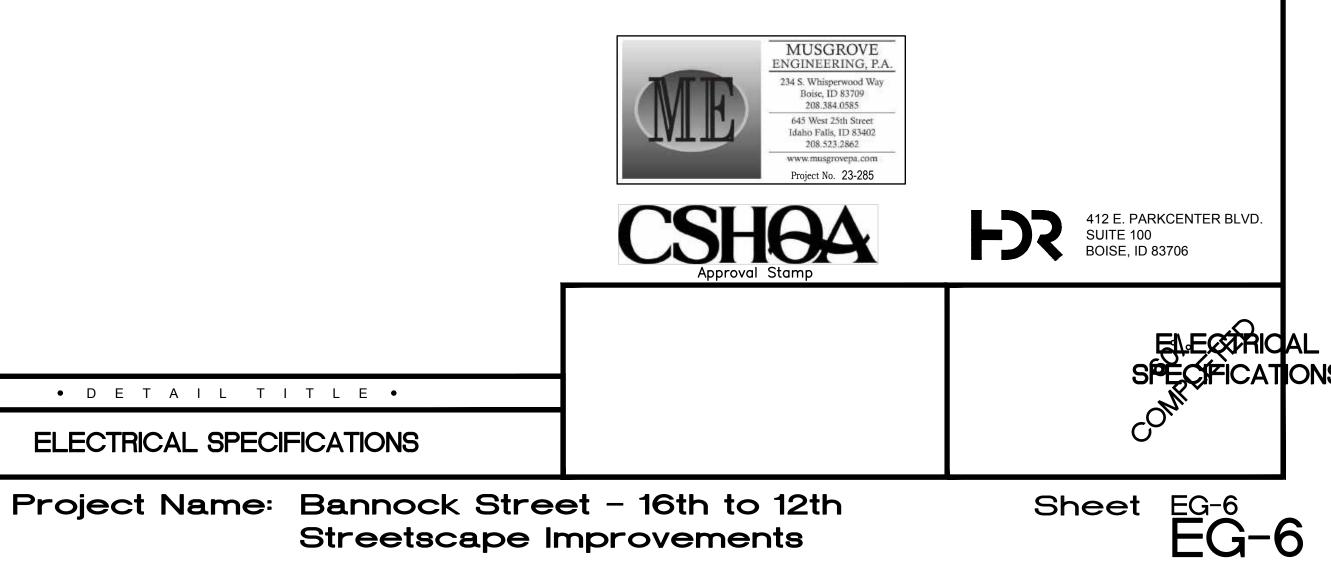
Project Number: 23056

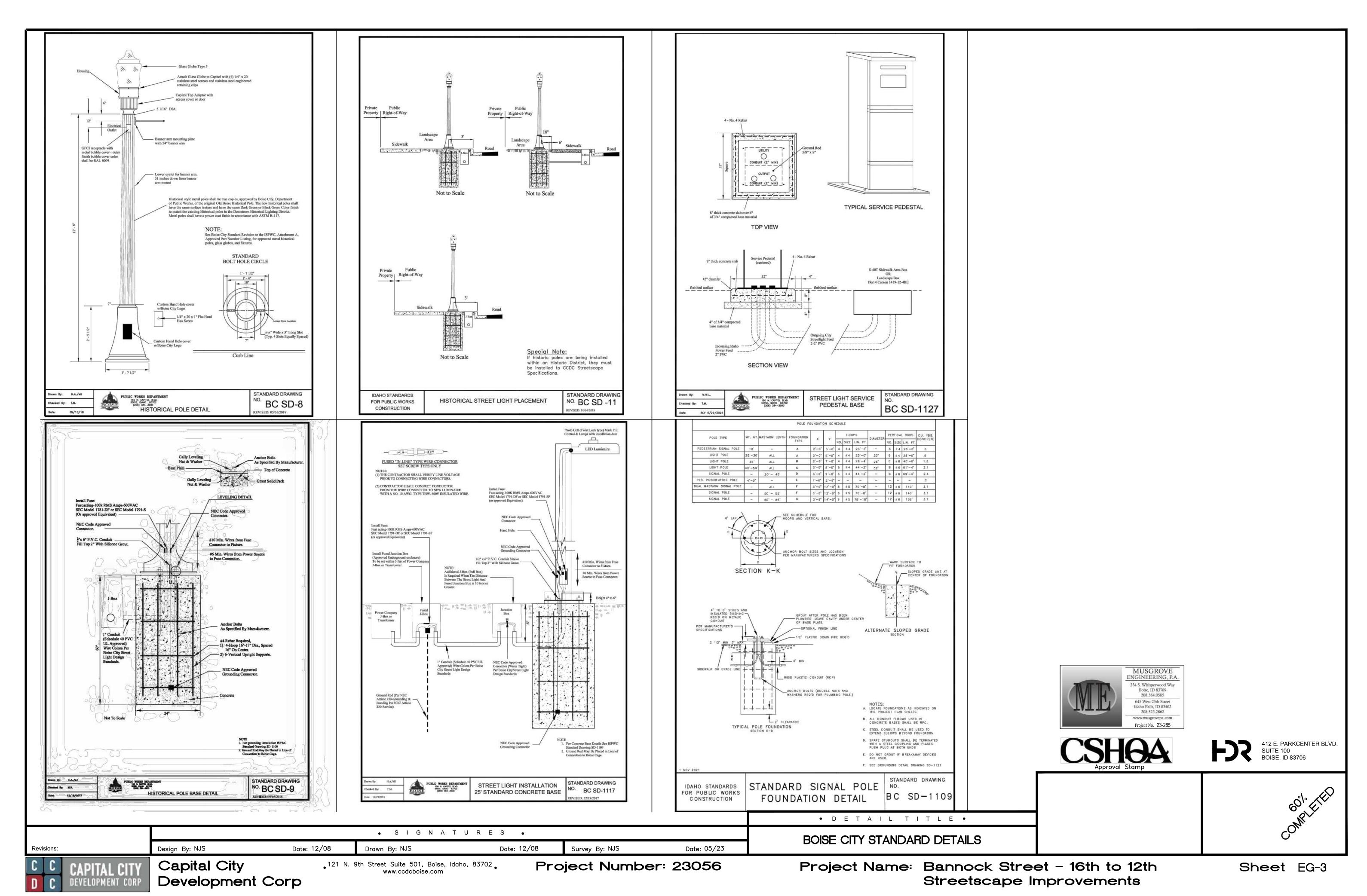
vater.

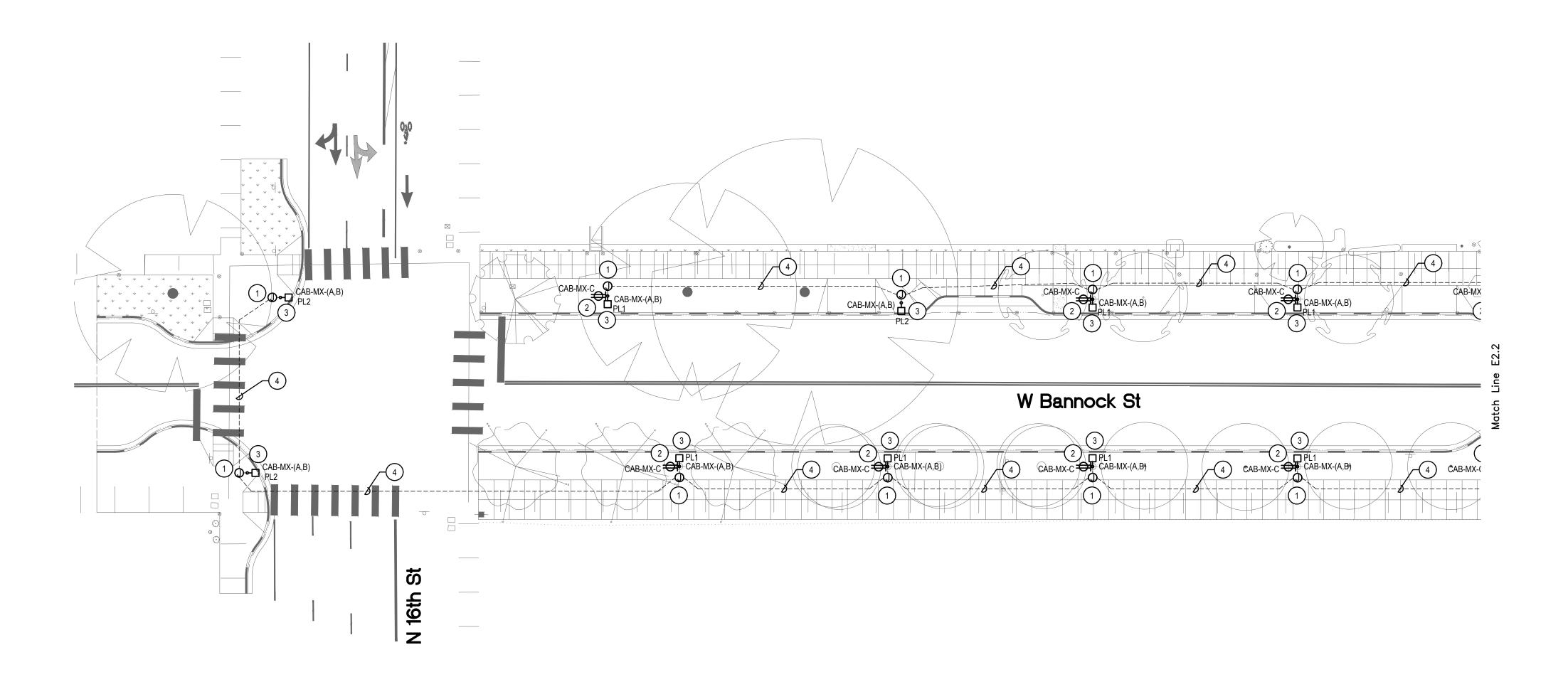
able of mounting on top of the current approved Boise andard drawing BC SD-8 without any field modification. oles are on the "Street Light Approved Fixtures and

oly will permit any necessary adjustment to orient the

method can be used to manage thermal output of the LED

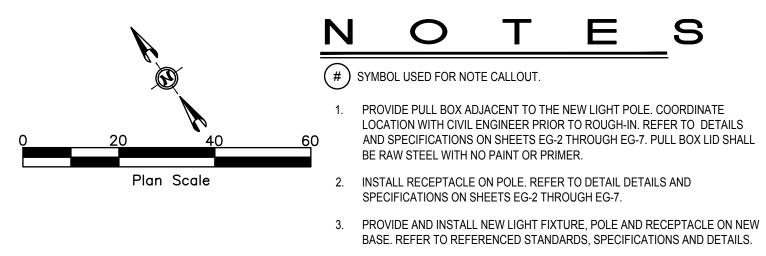




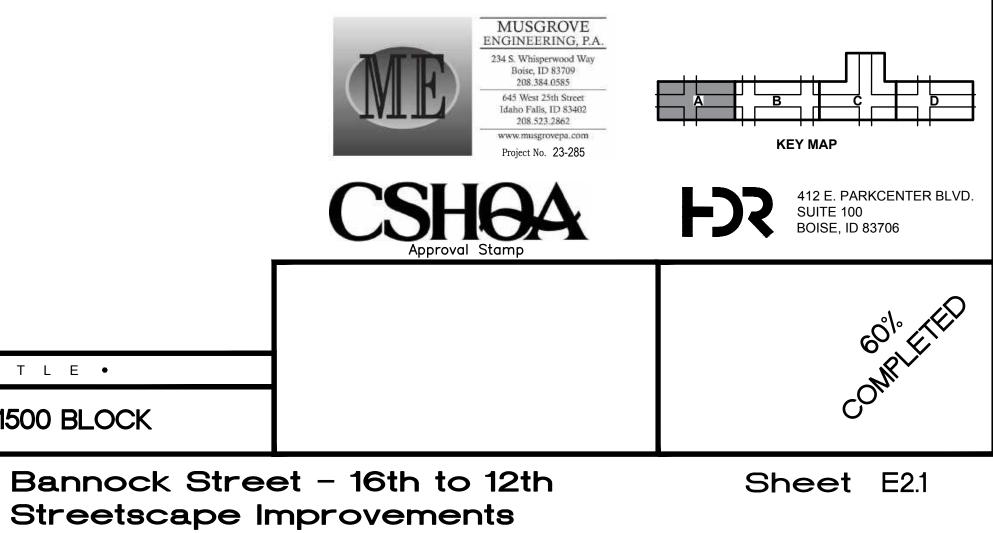


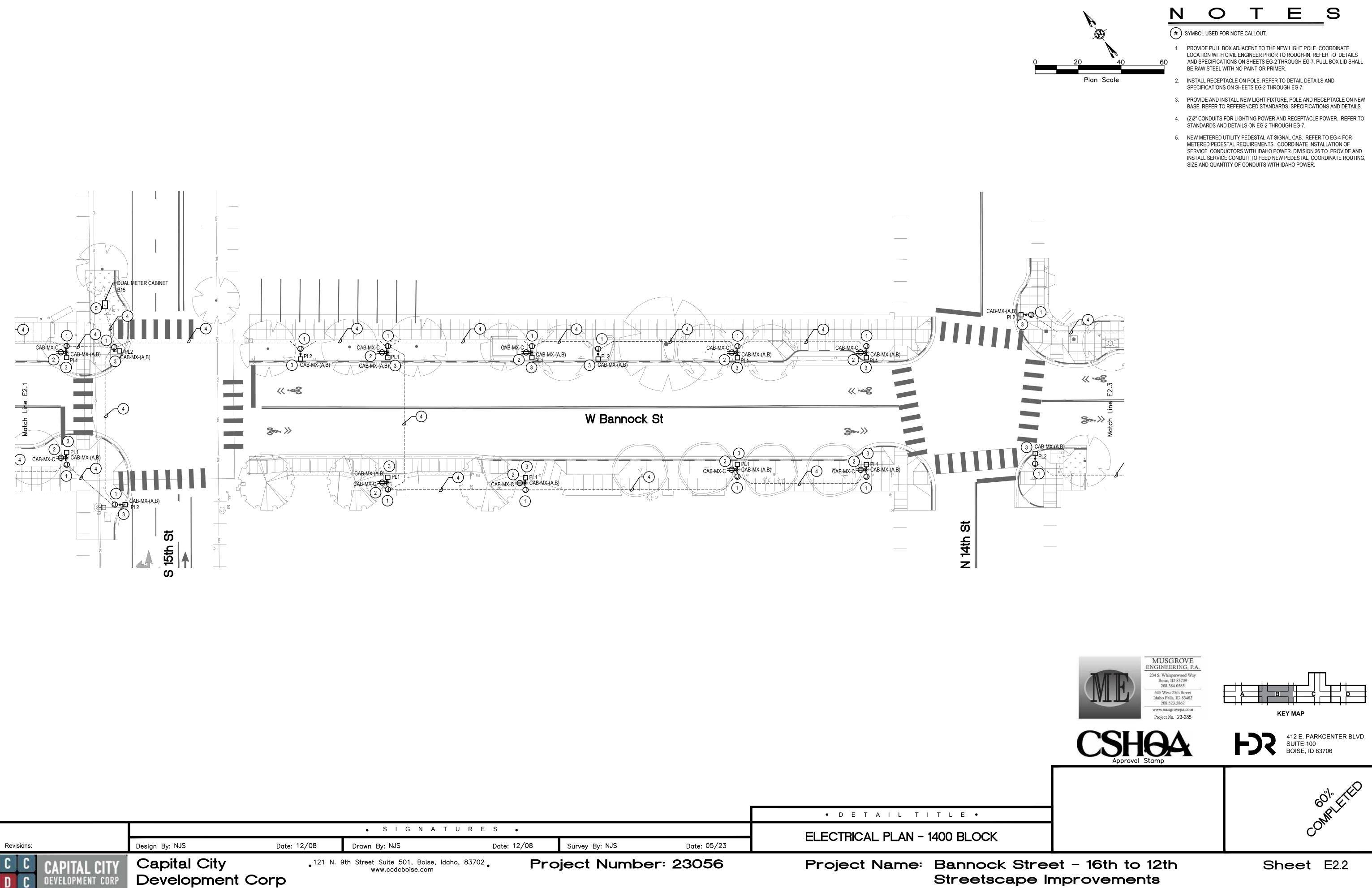
			•	S	I G	N A	ти	J R
Revisions:	Design By: NJS	Date: 12/08	Drawn	By: N	JS			
C C C CAPITAL CITY D C DEVELOPMENT CORP	Capital City Development Cor	• ¹²¹ №. 9t	th Street w	Suite ww.cc	e 501, dcbois	, Boise, se.com	ldaho,	, 837(

⁷⁰² • PI	roject Numbe	er: 23056	Project Name: Bannock
Date: 12/08	Survey By: NJS	Date: 05/23	
ES•			ELECTRICAL PLAN - 1500 BLOCK
			• DETAIL TITLE •

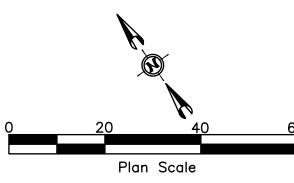


4. (2)2" CONDUITS FOR LIGHTING POWER AND RECEPTACLE POWER. REFER TO STANDARDS AND DETAILS ON EG-2 THROUGH EG-7.

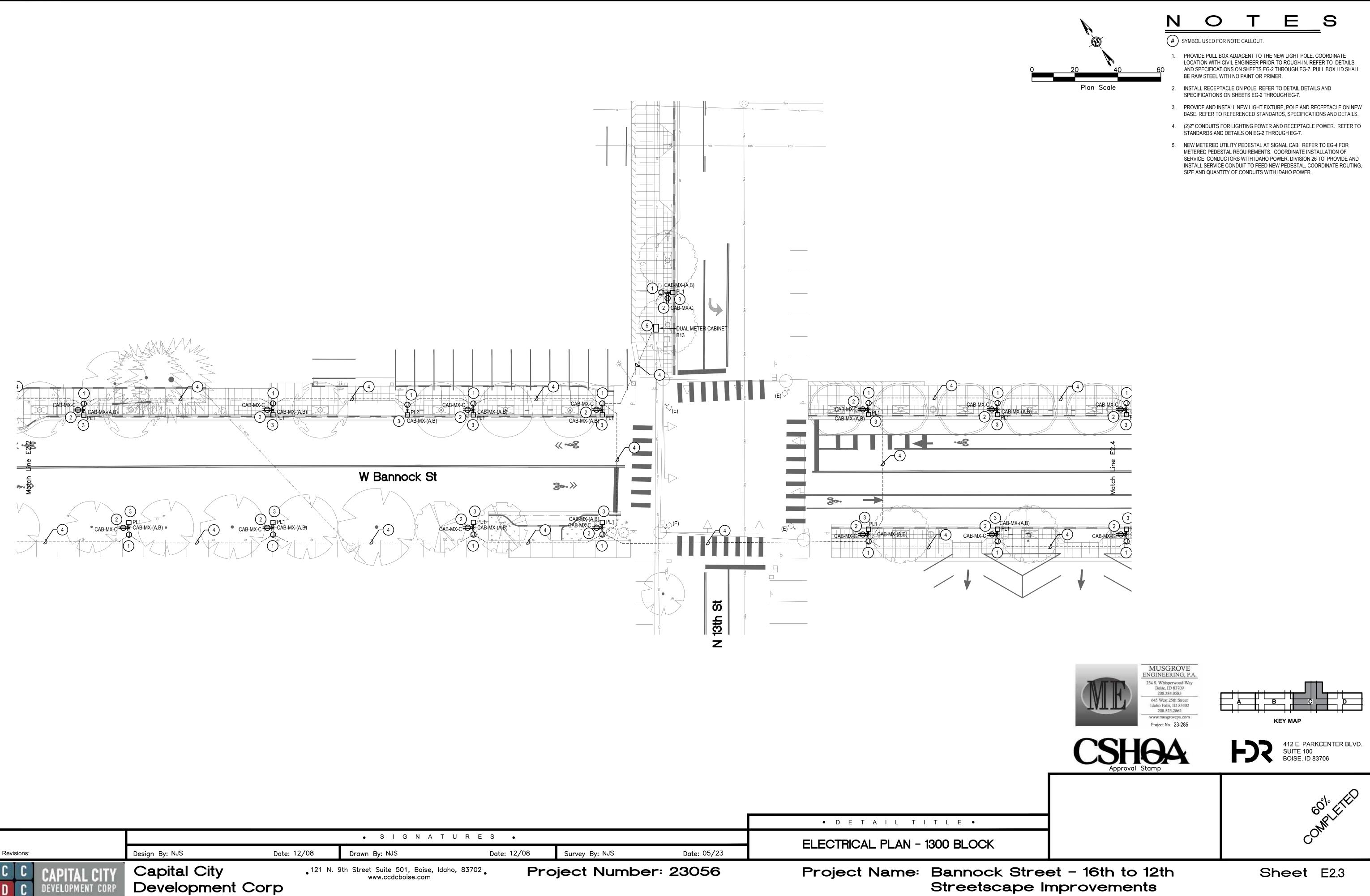




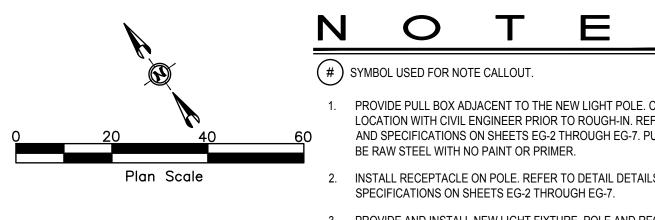
702 .	Pro	oject Numbe	er: 23056	Project Name: Bannock
Dat	e: 12/08	Survey By: NJS	Date: 05/23	ELECTRICAL FLAN - 1400 BLOCK
E S	•			ELECTRICAL PLAN - 1400 BLOCK
				• DETAIL TITLE •

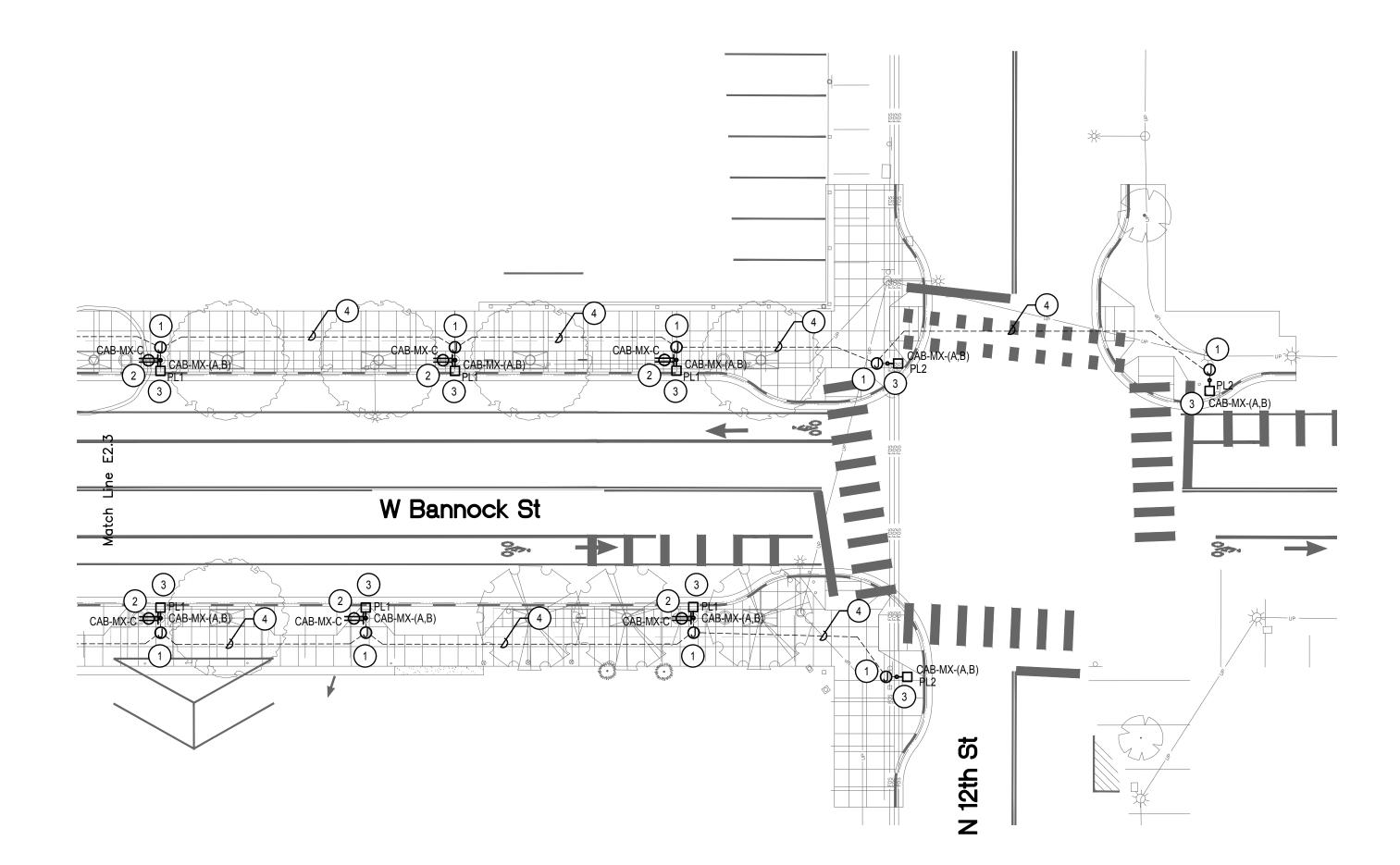






³³⁷⁰² • Pr	oject Numbe	er: 23056	Project Name: Bannock
Date: 12/08	Survey By: NJS	Date: 05/23	
RES •			ELECTRICAL PLAN - 1300 BLOCK
			• DETAIL TITLE •

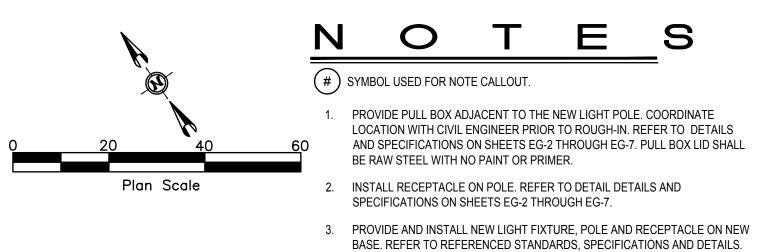




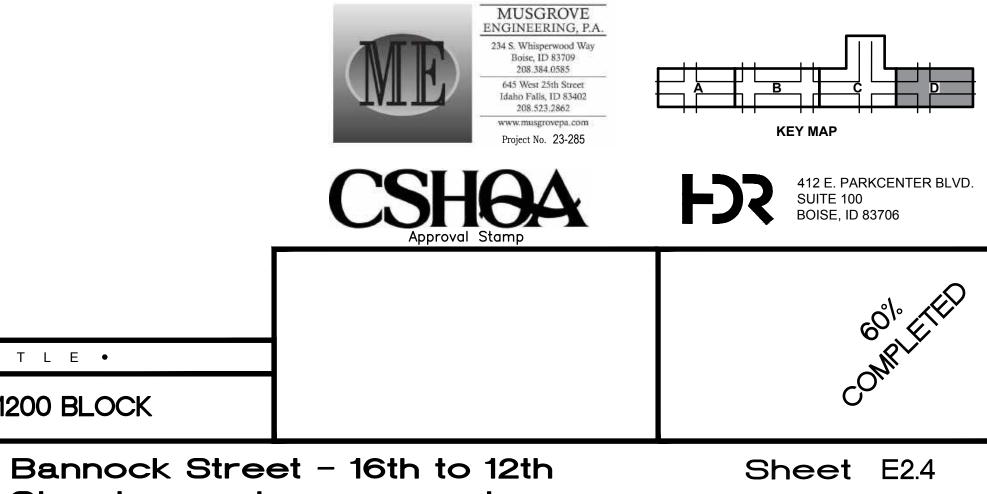
			•	S I	G	Ν	A	ΤU	R
Revisions:	Design By: NJS	Date: 12/08	Drawn	By: NJS	5				
C C C CAPITAL CITY D C DEVELOPMENT CORP	Capital City Development Co	• ^{121 N. 9}		Suite ww.ccdo				daho,	837

• DETAIL TITLE			
ELECTRICAL PLAN - 1200 B			ES•
Date: 05/23	Date: 05/23	Survey By: NJS	Date: 12/08
23056 Project Name: Ban	23056	piect Number	

 Froject name



(2)2" CONDUITS FOR LIGHTING POWER AND RECEPTACLE POWER. REFER TO STANDARDS AND DETAILS ON EG-2 THROUGH EG-7.



Streetscape Improvements



FINAL TALLY

RFQ: CM/GC BANNOCK STREET STREETSCAPE IMPROVEMENTS

	[Andersen	McAlvain	Wright Brothers
		Construction	Construction	
Category		Points	Points	Points
Cover Sheet (submitted)	0	Yes	Yes	Yes
Waiver/Release	0			
(submitted)		Yes	Yes	Yes
Signed Cover Letter	5			
	Member #1	3	5	3
	Member #2	3	3	3
	Member #3	5	4	5
	Member #4	4.5	4	3
Company Profile	15			
	Member #1	14	14	12
	Member #2	11	13	12
	Member #3	15	14	15
	Member #4	13	14	10
Proposed CMGC Project	20			
Team				
	Member #1	17	19	14
	Member #2	15	17	15
	Member #3	15	18	19
	Member #4	17.5	18.5	10
Relevant Experience Past Performance	20			
	Member #1	17	20	15
	Member #2	16	18	14
	Member #3	17	19	18
	Member #4	18	18.5	16
Project Approach, Work Plan & Schedule	25			
	Member #1	16	23	14
	Member #2	23	23	17
	Member #3	23	25	20
	Member #4	23	24	15
Project Management	15			
	Member #1	15	15	11
	Member #2	13	14	11
	Member #3	13	15	13
	Member #4	14	13	10
Total Points	400	341	371	295
Rank		2	1	3