



**Lewiston City Council**  
**AMENDED**  
**SPECIAL WORK SESSION AGENDA**  
**April 20, 2026 - 3:00 PM**  
**City Hall – Back Conference Room – 1134 F Street**  
**Lewiston, Idaho 83501**

Seating will be available on a first-come, first-served basis. All others who wish to observe this meeting may watch and listen to the livestream on their own device(s) by visiting the City of Lewiston's website at [cityoflewiston.org](http://cityoflewiston.org).

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**I. CALL TO ORDER**

**II. PLEDGE OF ALLEGIANCE**

**III. CITIZENS COMMENTS**

This is an opportunity for individuals wishing to comment on agenda items or other matters they wish to bring to the Council's attention, excluding those scheduled for a public hearing. As there may not be another opportunity to comment once an agenda item is addressed, individuals are encouraged to speak at this time. Individuals are encouraged to discuss operational issues in advance with the Mayor. In consideration of others wishing to speak, commentary is limited to three (3) minutes.

**IV. DISCUSSION ITEMS**

Please note that identifying an item as an "Action Item" does not require the City Council to vote on that item.

**A. EMERGENCY MANAGEMENT UPDATE:** Annual program review and update provided by Emergency Management Coordinator James Wooderchak - Action Item

**B. EAST LEWISTON TRANSPORTATION NETWORK ANALYSIS:** Update and discussion on the proposed East Lewiston Transportation Network Analysis plan - Discussion

**C. CITY OF LEWISTON STANDARD DRAWINGS AND MODIFICATIONS TO THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION:** Introduction and review of the updated City of Lewiston Standard Drawings and Modifications to the Idaho Standards for Public Works Construction (ISPWC) - Action Item

**D. UNUSED CITY PROPERTIES:** Continued discussion of unused City property, as requested by Councilor Spickelmire at the January 26, 2026 and March 2, 2026 City Council meetings - Action Item

**E. UPCOMING BUDGET:** Discussion about potential budget cuts, as requested by Councilor Forsmann at the April 13, 2026 City Council meeting - Action Item

**V. UNFINISHED AND NEW BUSINESS**

- A. **CITY COUNCILOR COMMENTS:** Comments shall not be related to an item currently before the City Council or an item that may come before the City Council in the foreseeable future, and shall be limited to comments, not discussion.
- B. **CITY BOARDS AND COMMISSIONS LIAISON UPDATES**
- C. **MAYOR COMMENTS**
- D. **AGENDA TOPICS:** - Action Item

**VI. EXECUTIVE SESSION**

Pursuant to Idaho Code 74-206(1)(d) To consider records that are exempt from disclosure as provided in chapter 1, title 74, Idaho Code; and (f) To communicate with legal counsel for the public agency to discuss the legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated.

- A. **RESOLUTION 2026-22:** Considering approving a Fourth Amended and Restated Joint Powers Agreement establishing the Lewiston - Nez Perce County Airport Authority - Action Item

**VII. ADJOURNMENT** - Action Item

The City of Lewiston is committed to providing access and reasonable accommodation in its services, programs, and activities and encourages qualified persons with disabilities to participate. If you anticipate needing any type of accommodation or have questions about the physical access provided at this meeting, please contact Nikki Province, ADA Coordinator, at least forty-eight (48) hours in advance of the meeting at 208-746-3671 x 6211.

## Training/Exercises/Presentations/Plans: 2025

| Training/Exercises/Presentations: 2025                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 Mar 2025                                                                                                                                  | <ul style="list-style-type: none"> <li><b>Tabletop Exercise:</b> NIHCC Cybersecurity Tabletop Exercise; Exercise sponsored by the NIHCC, the Cybersecurity and Infrastructure Security Agency (CISA), Kootenai Health, and St. Joseph Regional Medical Center.</li> </ul>                                                                                                                                                                                                                         | <br>NIHCC Cyber TTX - March 2025.pdf                                                                                                                                                          |
| 27 May 2025                                                                                                                                  | <ul style="list-style-type: none"> <li><b>Functional Exercise:</b> The Bureau of Reclamation's Snake River Area Office conducted an Emergency Action Plan (EAP) Functional Exercise (FE) for the Lewiston Orchards Project on May 27th 2025.</li> </ul>                                                                                                                                                                                                                                           | <br>Lewiston Orchards Project Exercise (27 May 2025).pdf                                                                                                                                      |
| 5 Nov 2025                                                                                                                                   | <ul style="list-style-type: none"> <li><b>Tabletop Exercise:</b> Clearwater Paper; A cracked pipe on a chlorine dioxide storage tank is leaking chlorine dioxide solution at a fast rate; the liquid is forming a pool and chlorine gas is vaporizing, forming a dense green cloud. The leak cannot be isolated. The site is evacuating to indoor gathering areas. CLW to call to State/Comm to request support.</li> <li><b>Functional Exercise:</b> Notifications to NRC, State Com.</li> </ul> | <br>2025 State Comm Exercise Request Form.pdf<br><br><br>AGENDA-Emergency Response Annual Meeting 2025.pdf |
| 22 Jan 2025<br><br><br>Talking Points LEPC Asotin 2025.doc | <ul style="list-style-type: none"> <li><b>Joint LEPC Asotin-Nez Perce County:</b> (22 Jan 2025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        | <br>Asotin - NP Joint LEPC meeting 1-22-25.pdf<br><br><br>NP & AC ESF tables.pdf                         |
| 19 May 2025                                                                                                                                  | <ul style="list-style-type: none"> <li><b>Joint LEPC Asotin-Nez Perce County:</b> (19 May 2025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        | <br>JLEPC Attendance and Agenda 5-19-25.pdf                                                                                                                                                 |
| 30 Sept 2025                                                                                                                                 | <ul style="list-style-type: none"> <li><b>Joint LEPC Asotin-Nez Perce County:</b> (30 Sept 2025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       | <br>Joint Asotin-Nez Perce LEPC AGENDA 9-30-25.pdf                                                                                                                                          |
| 26 June 2025                                                                                                                                 | <ul style="list-style-type: none"> <li><b>Full-Scale Exercise LWS Lewiston Nez Perce Airport</b> (26 June 2025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        | <br>LWS Exercise AAR (26 June 2025).docx                                                                                                                                                    |
| 9 Dec 2025                                                                                                                                   | <ul style="list-style-type: none"> <li><b>Training &amp; Exercise Group</b> (9 Dec 2025):</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                              | <br>T&E Workgroup Meeting Materials.pdf                                                                                                                                                     |
| FEMA Independent Study: Ongoing                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                  |
| FEMA Independent Study (Jan-Dec 2025)                                                                                                        | <ul style="list-style-type: none"> <li>IS-111.a Livestock in Disasters</li> <li>IS-130.a How to be an Exercise Evaluator</li> <li>IS-201: Forms Used for the Development of the Incident Action Plan</li> </ul>                                                                                                                                                                                                                                                                                   | <br>Unofficial-Student-Transcript 31 Dec 2025.pdf                                                                                                                                           |

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|  | <ul style="list-style-type: none"> <li>• IS-238 Critical Concepts of Supply Chain Flow and Resilience</li> <li>• IS-271.A: Anticipating Hazardous Weather &amp; Community Risk, 2nd Edition</li> <li>• IS-2000 National Preparedness Goal and System Overview</li> <li>• ICS 300 Intermediate ICS for Expanding Incidents</li> <li>• IS-1171.a, Introduction to the Risk Management Process</li> <li>• IS-906 Workplace Security Awareness</li> <li>• IS-907 Active Shooter: What You Can Do</li> <li>• IS-914 Surveillance Awareness: What You Can Do</li> <li>• IS-912 Retail Security Awareness: Understanding the Hidden Hazards</li> <li>• IS-915 Protecting Critical Infrastructure Against Insider Threats</li> <li>• IS-916 Critical Infrastructure Security: Theft and Diversion – What You Can</li> <li>• IS-66 Preparing the Nation for Space Weather Events</li> <li>• IS-75 Military Resources in Emergency Management</li> <li>• ICS 400 Advanced ICS for Complex Incidents</li> <li>• IS-247.C: Integrated Public Alert and Warning System (IPAWS) for Alert Originators</li> <li>• IS-251.B: Integrated Public Alert and Warning System (IPAWS) for Alerting Administrators</li> <li>• IS-328: Plan Review for Local Mitigation Plans</li> <li>• IS-1010: Emergency Protective Measures</li> <li>• IS-144.A: TERT Basic Course</li> <li>• IS-350: Mitigation Planning for Tribal Communities</li> <li>• IS-822: Fundamentals of Management and Support Coordination of Federal Disaster Operations</li> <li>• IS-815 ABCs of Temporary Emergency Power</li> <li>• IS-909 Community Preparedness: Implementing Simple Activities for Everyone</li> <li>• IS-905: Responding to an Active Shooter: You Can Make a Difference</li> <li>• IS-552 The Public Works Role in Emergency Management</li> <li>• IS-553.a, Coordination between Water Utilities and Emergency Management Agencies</li> <li>• IS-403.a, Introduction to Individual Assistance (IA)</li> <li>• IS-908 Emergency Management for Senior Officials</li> <li>• IS-363 Introduction to Emergency Management for Higher Education</li> <li>• IS-1300.a: Introduction to Continuity</li> <li>• IS-505 Concepts of Religious Literacy for Emergency Management</li> <li>• IS-2901: Introduction to Community Lifelines</li> </ul> |  |
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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                      | <ul style="list-style-type: none"> <li>• IS-406: Operating a Shelter</li> <li>• IS-1024: Water and Wastewater Treatment System Considerations</li> <li>• IS-917: Active Shooter Leadership</li> <li>• IS-1152: Blue Campaign First Responder Training</li> <li>• IS-1150: DHS Human Trafficking Awareness for FEMA Employees</li> <li>• IS-1151: Blue Campaign Disaster Responder Training</li> </ul> |             |
| <b>Plans Updated</b> |                                                                                                                                                                                                                                                                                                                                                                                                       |             |
| EOP                  | • Nez Perce County Emergency Operations Plan 2025                                                                                                                                                                                                                                                                                                                                                     | 1 Jan 2025  |
| MHMP                 | • Nez Perce County Multi-Hazard Mitigation Plan, Completed 2025-2030                                                                                                                                                                                                                                                                                                                                  | 8 Aug 2025  |
| COOP-COG-Comm        | • Nez Perce County Continuity of Operations Plan (COOP) & Continuity of Government (COG) 2025                                                                                                                                                                                                                                                                                                         | 18 Feb 2025 |
| CPR                  | • Nez Perce County Catastrophic Disaster Response Plan 2025-2030                                                                                                                                                                                                                                                                                                                                      | 7 Apr 2025  |
| EAP                  | • Emergency Action Plan 2025-2030                                                                                                                                                                                                                                                                                                                                                                     |             |



## CITY COUNCIL MEETING AGENDA ITEM SUMMARY

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| <b>ITEM TITLE</b><br>EAST LEWISTON TRANSPORTATION<br>NETWORK ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>AGENDA NO.</b> IV. B.<br><br><b>AGENDA DATE:</b> April 20, 2026 |
| <b>ITEM SUMMARY (Background, Discussion, Key Points, Recommendations, etc.)</b><br><br><p>The City of Lewiston initiated the East Lewiston Network Analysis (ELNA) to address increasing transportation demands and connectivity gaps in the East Orchards area, driven by ongoing development and challenging topography. The transportation network lacks east-west connection. Following Council direction, the City issued RFQ-25-012 and selected Kittelson &amp; Associates, Inc. to perform the analysis, with a negotiated contract of \$150,000 which was awarded by Council on July 14, 2025.</p> <p>The project was subsequently renamed to the East Lewiston Transportation Network Analysis (ELTNA).</p> <p>The ELTNA project will develop a recommended transportation network concept focused on improving east-west connectivity between Thain Road/21st Street and Lapwai Road/Lindsay Creek Road, from E. Main Street to Powers Avenue enhancing existing infrastructure, and planning for future growth. The primary focus of the plan is to enable the reservation of right of way during the development process to accommodate the future traffic growth that is projected to occur from the project area. The analysis will also address pedestrian safety, transit options, aesthetics, and utilities to support a reliable and efficient system.</p> <p>A steering committee was formed to guide the process and their input has largely formed the plan in its current form. The steering committee consists of representatives from the affected landowners/developers, County Staff and Commission, City Staff and a Council, School District, and Lewiston Orchard's Irrigation District. They have met three times to help steer the direction of this analysis.</p> <p>The Public Works Advisory Commission (PWAC) has also participated in the process.</p> <p>After the presentation tonight and taking the opportunity to incorporate Council's feedback, the public will be given the opportunity to review the ELTNA project at a public open house planned for May 12, at the high school. Once public comment has been gathered and</p> |                                                                    |

incorporated, it is expected the plan will return to Council for approval.

**BUDGET IMPACT (Identify any or all impacts this proposed action would have on the City budget and/or personnel resources)**

None

**ACTION PROPOSED**

Staff requests Council's feedback on the proposed plan.



# East Lewiston Transportation Network Analysis (ELTNA)

City Council  
April 20, 2026





# What this plan is

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## A blueprint for new arterial and collector roadways

- Establishes roadway corridors
  - ✓ Corridors may shift if it still meets the connectivity and traffic operation needs; **and** reduces impacts
- Allows for phasing of roadway construction in response to new development
- Facilitates coordination between the City, County, and developers



# Why plan now

- Key corridors (Thain/21<sup>st</sup>/Bryden) are already congested
- Any new trips will strain the system
- Emergency access is already challenging

**1,400 acres** slated for new housing  
**49,000 new trips** at **full build out**

**Decide now where those new trips will go to keep the system operating safely, efficiently, and cost effectively.**

## Growth is happening!





# Other advantages of planning now

- Emergency services and evacuation
- Stimulates economic development
- Secures space for utilities
- Minimizes impacts to property owners and existing residential neighborhoods
- Transit, pedestrian and cyclist connectivity to reduce trips



# Who are we talking with



**Steering  
Committee**

- Private Landowners
- Private Investors
- Public Agencies

**Stakeholders**

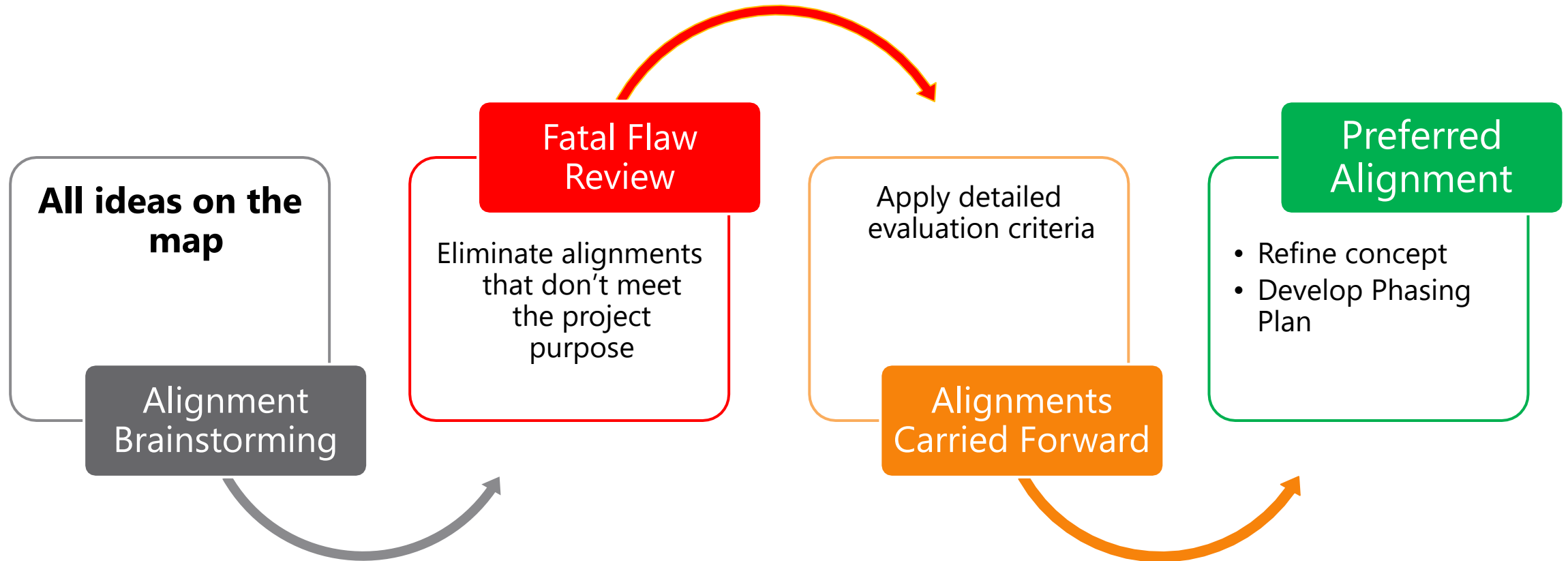
- Private Utilities
- Impacted Private Entities

**Public**

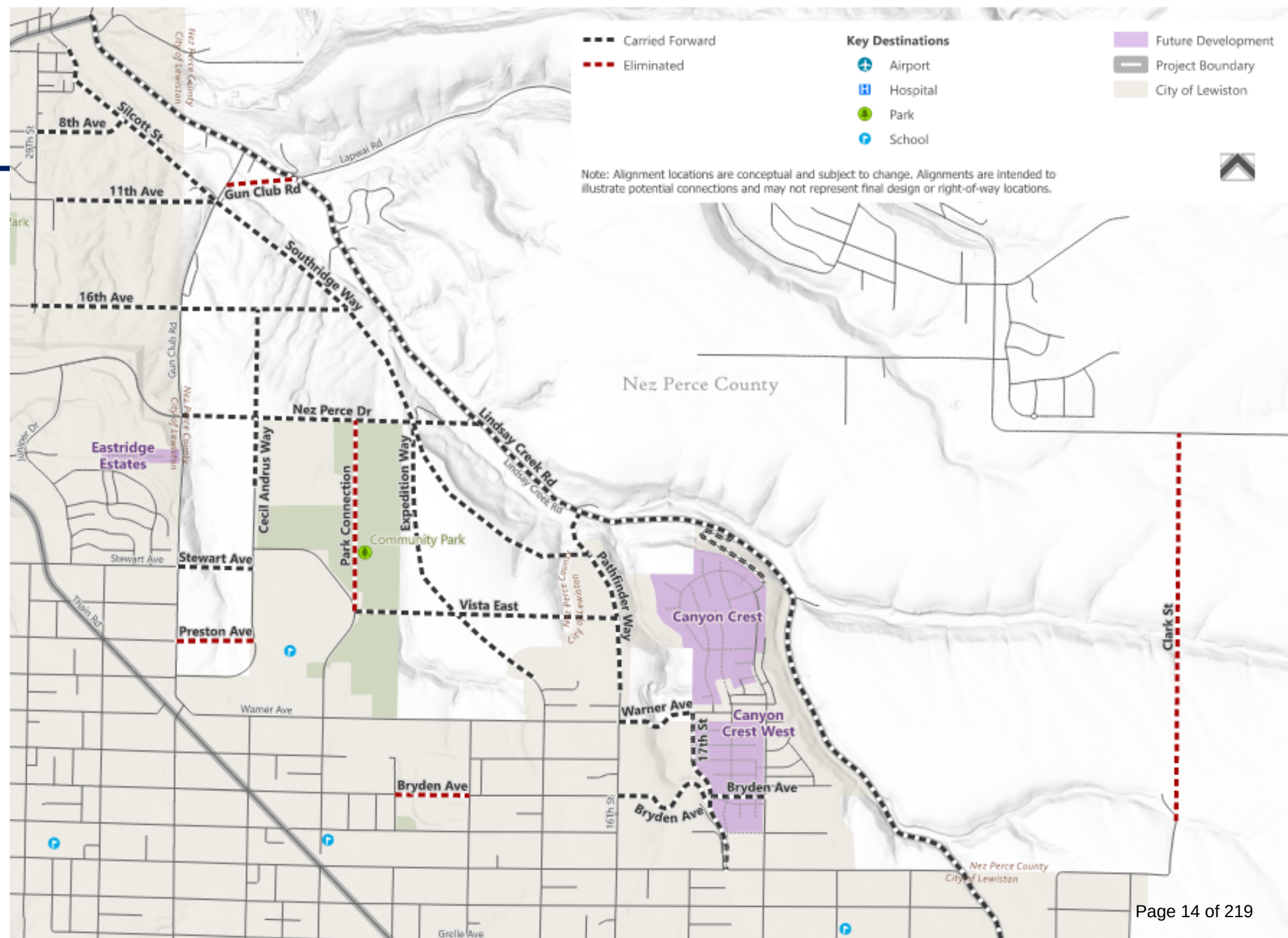
- Community  
Listening Sessions



# Evaluation Process



# Fatal flaw Analysis



# Refinement & analysis

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Slope & grade  
challenges across all  
alignments





# Mapping the alignments

## Finding the path of least resistance

- Earthwork
- Bridges/Culverts
- Vertical Curves
- Horizontal Curves
- Property Impacts
- Environmental



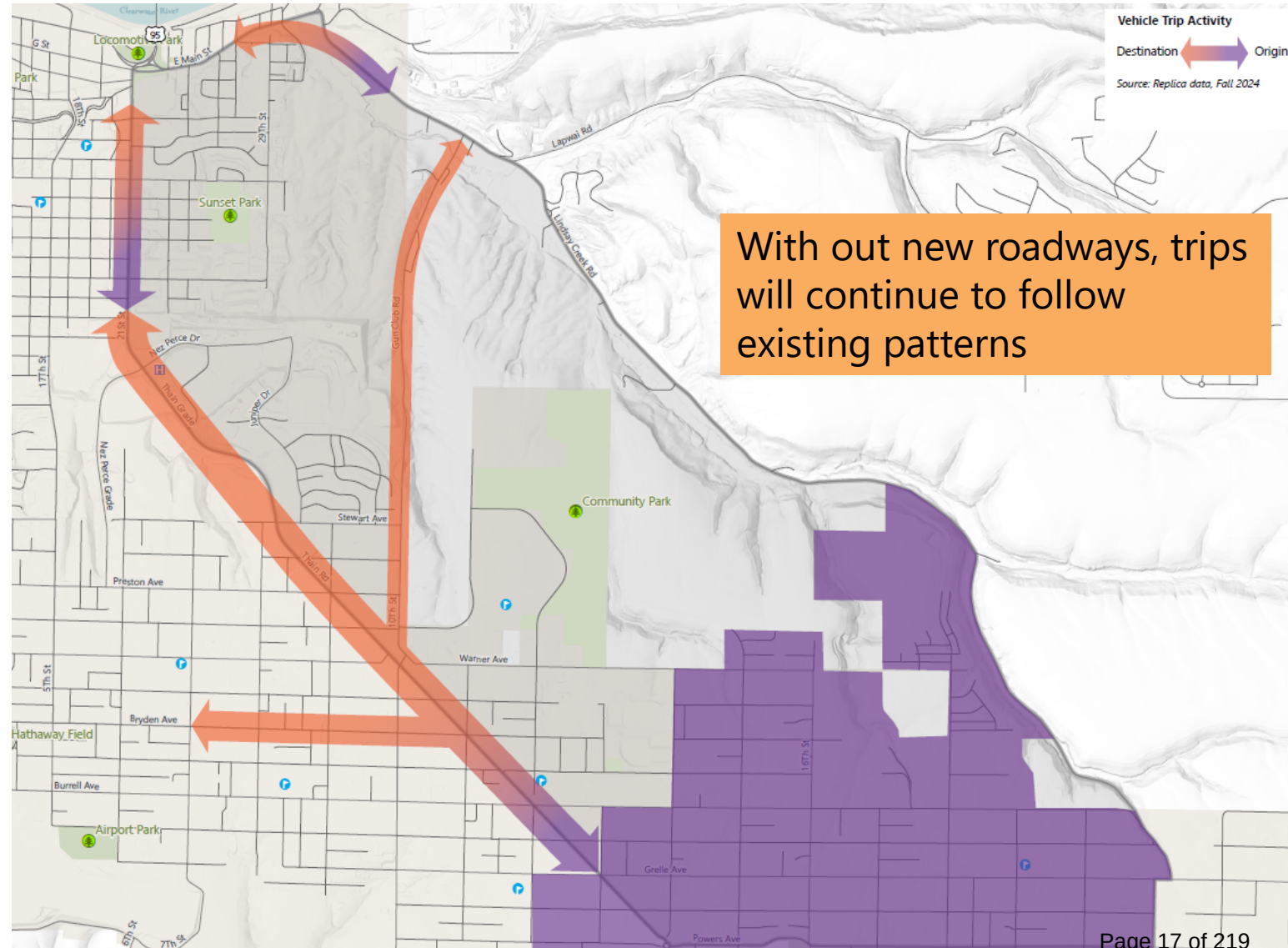
# Traffic analysis

## Most critical links for traffic operations

- ✓ Southridge Way
- ✓ 16th Avenue
- ✓ Nez Perce Drive

## Important for redundancy

- ✓ 8th Ave
- ✓ 11th Ave
- ✓ Stewart Ave

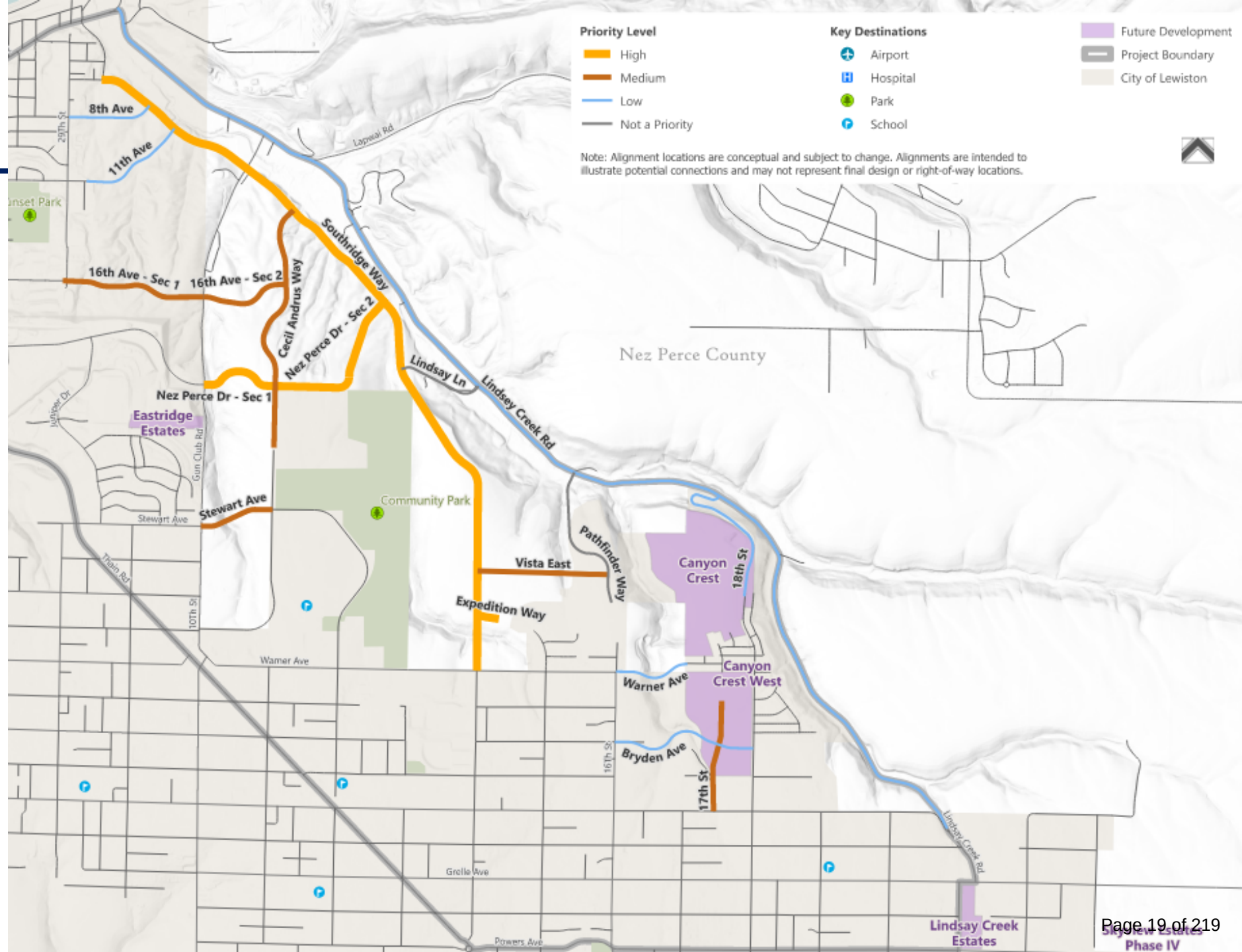




# Scoring

| Criteria                        | Definition                                            | Does Not Meet Criteria                              | Minimally Meets Criteria                                     | Meets Criteria                                               | Exceeds Criteria                                       |
|---------------------------------|-------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|
| Traffic Operations              | Critical to mobility at full buildout                 | % of new daily trips < 1%                           | % of new daily trips < 9% and > 1%                           | % of new daily trips > 9%                                    | Alternative with the greatest % of new daily trips     |
| Impacts to Existing Land Use    | Avoids existing commercial and residential structures | Existing residential / commercial building impacted | NA                                                           | NA                                                           | No existing residential / commercial building impacted |
| Impacts to Regulatory Floodways | Minimizes impacts to mapped regulatory floodways      | Alternative with the greatest area of impact        | Significant area of impact                                   | Slight area of impact                                        | No area of impact                                      |
| Impacts to Wetlands / Drainages | Minimizes impacts to mapped wetlands and drainages    | Alternative with the greatest area of impact        | Significant area of impact                                   | Slight area of impact                                        | No area of impact                                      |
| Estimated Cost                  | Cost per linear foot of construction                  | Cost per linear foot > \$9000                       | Cost per linear foot < \$9000 and > \$6000                   | Cost per linear foot < \$6000 and > \$3000                   | Cost per linear foot < \$3000                          |
| Slope                           | Minimizes cut and fill slopes                         | % of total ROW area dedicated to side slopes > 30%  | % of total ROW area dedicated to side slopes < 30% and > 20% | % of total ROW area dedicated to side slopes < 20% and > 10% | % of total ROW area dedicated to side slopes < 10%     |
| Grade                           | Meets City of Lewiston Standards for maximum grade    | Max grade > 12%                                     | NA                                                           | NA                                                           | Max grade < 12%                                        |

# Prioritized alignments



# How will this plan be implemented?

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- Update planning documents to include corridors for ROW preservation:
  - Comprehensive Plans
  - Long Range Transportation Plans
  - Local Transportation Plans
- Coordination
  - Between City and County during land use decision process
  - With private developers/landowners

Roadways will be constructed incrementally in response to development demand



# Next steps

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- **May** – Draft Plan
  - Public Open House
- **June** – Final Plan







## CITY COUNCIL MEETING AGENDA ITEM SUMMARY

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>ITEM TITLE</b><br>CITY OF LEWISTON STANDARD<br>DRAWINGS AND MODIFICATIONS TO THE<br>IDAHO STANDARDS FOR PUBLIC WORKS<br>CONSTRUCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>AGENDA NO.</b> IV. C.<br><br><b>AGENDA DATE:</b> April 20, 2026 |
| <b>ITEM SUMMARY (Background, Discussion, Key Points, Recommendations, etc.)</b><br><br><p>Staff is presenting updated <i>City of Lewiston Standard Drawings and Modifications to the ISPWC</i> (Standards) for Council review and future adoption. These updates reflect current engineering practices, regulatory requirements, and lessons learned from recent projects and the folks we work with. The revisions are intended to improve clarity, ensure consistency in design and construction, and support efficient project delivery for both capital projects and private development projects.</p> <p>Staff informed the public about this update to the Standards through social media, a press release, and emails to all contractors, developers, and consultants we had on file through Community Development's work with them. All were invited to provide public comment online or in-person. Staff created a webpage on the City's Website dedicated to this update which can be viewed here: <a href="https://www.cityoflewiston.org/878/City-of-Lewiston-Standards-Update">https://www.cityoflewiston.org/878/City-of-Lewiston-Standards-Update</a>. Public comment was received for a 30-day period from March 6 to April 6, 2026.</p> <p>The updated standards address key areas such as roadway design, utilities, stormwater management, and construction requirements. Adoption of these standards will provide clear guidance to staff, developers, and contractors, and help ensure that infrastructure is constructed to meet the City's long-term performance and maintenance expectations.</p> <p>Included in this item are the following attachments:</p> <p><b>The City of Lewiston Standard Drawings and Modifications to the ISPWC (2026)</b></p> <p>The <i>City of Lewiston Standard Drawings and Modifications to the ISPWC (2026)</i> contains the City's <i>Standard Drawings</i>, an <i>Inspection Checklist</i>, <i>Modifications to the ISPWC</i> (Idaho Standards for Public Works Construction), and <i>Standards for Development Project Certification and Quality Control</i>. These documents are commonly referred to as the City's "standards and specifications" or just "standards." A description of each of these documents is included below.</p> <p>The <i>Standard Drawings</i> provide pre-approved, uniform design details for commonly used infrastructure elements. They establish consistent construction requirements, reduce the need for project-specific design, and help ensure that facilities are built to meet the City's safety, performance, and maintenance standards. They improve efficiency for staff, engineers, and contractors, by streamlining design and</p> |                                                                    |

review, while promoting reliable and predictable outcomes during construction.

The *Inspection Checklist* provides a standardized tool for verifying that construction work meets approved plans, specifications, and quality standards. It helps ensure consistency across inspections, documents compliance, and reduces the risk of overlooked items. By guiding inspectors through key requirements, it supports accountability, improves communication with contractors, and helps ensure infrastructure is constructed correctly and ready for long-term service.

*Modifications to the ISPWC* establish City-specific amendments to the statewide standard specifications. These updates allow the City to address local conditions, design preferences, regulatory requirements, and operational needs that may not be fully covered by the base standards. The modifications ensure consistency with City Standards and Specifications while providing clear, locally tailored guidance for design and construction of public infrastructure within the City.

The *Standards for Development Project Certification and Quality Control* establish the requirements and procedures for verifying that development-related infrastructure is constructed in accordance with approved plans, specifications, and applicable City standards. These standards define expectations for testing, documentation, inspection, and certification throughout the project lifecycle. The goal is to ensure consistent quality, protect public infrastructure investments, and confirm that all improvements are complete and acceptable prior to the City taking over ownership and maintenance of the infrastructure.

#### **Public Comment Log - Standards Update**

The next attachment is a public comment log. It is a documented record used to track and organize comments received from the public on this update, along with staff responses and any resulting follow-up.

#### **2026 Standard Drawings Revisions list**

This revisions list for the standard drawings provides a clear summary of all changes made to the City's standard drawings, including additions, deletions, and updates. It helps you quickly identify what has been modified and ensures transparency during the update.

#### **BUDGET IMPACT (Identify any or all impacts this proposed action would have on the City budget and/or personnel resources)**

This item does not impact the budget.

#### **ACTION PROPOSED**

Not an action item but staff requests the Council be prepared to discuss any concerns with the Standards update.

CITY OF LEWISTON

STANDARD DRAWINGS  
AND  
MODIFICATIONS TO THE ISPWC  
(2026)

PREPARED BY:

PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

DUSTIN JOHNSON, P.E. – DIRECTOR, PUBLIC WORKS DEPARTMENT

LUKE ANTONICH, P.E. – CITY ENGINEER

## ACKNOWLEDGEMENTS

### **DANIEL JOHNSON, MAYOR**

#### **CITY COUNCIL**

Jim Kleeburg  
Jessica Klein  
John Spickelmire

Kassee Forsmann  
Bryan Moree  
Matthew Wright

#### **PUBLIC WORKS ADVISORY COMMITTEE**

Laura Wright – Chair  
Ryan Rehder – Vice Chair  
Brent Bourassa  
Lytonia “LT” Gardee

Kayleigh Philippi, Student Member  
Jessica Klein, Council Liason  
Matthew Wright, Council Liason



## ADOPTING ORDINANCE

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INSERTED HERE.>

## INTRODUCTION

The City of Lewiston Standards contain the general drawings and specifications to be used for Private Development contracted projects and for City contracted projects. Public Works attempts to achieve maximum uniformity of construction and engineering practices within the City of Lewiston. The Standards cover the typical scenarios and give the minimum values the City will accept. The City Engineer encourages the use of the Standards but may accept proven alternate design methods.

When submitting the plans and reports for approval by the City Engineer, calculations should be included. The calculations should be submitted in a neat and readable fashion but need not be typed.

Where a reference is made to an ASTM, ANSI, AASHTO, DEQ, MUTCD, or any other standardized document or designation, it shall be the latest revision at the time. Where conflicts exist, the Standards shall govern.

### Deviations from Adopted City Standards

Deviation from the City of Lewiston Standard Drawings or the City of Lewiston Standard Modifications to the ISPWC or the City of Lewiston Standards for Development Project Certification and Quality Control (City Standards) may be granted by the Public Works Director (PWD) upon written evidence from the Project Engineer that the proposed deviation:

- does not conflict with or modify a condition of approval;
- is based upon sound engineering principles; and
- meets requirements for safety, function, appearance, and maintainability.

A request for approval of a deviation from the City Standards must be submitted in writing to the PWD. The applicant shall present supporting information that would justify approval of the request in terms of the above criteria. The directors of the appropriate departments or the authorized representatives shall approve or deny the request based upon these criteria.

Proposed deviations must be approved before utility and/or road plans are approved. Deviations must also be approved before commercial building permits are issued. The PWD may apply conditions to the approval of design deviations.

Deviations from established standards or approved plans must be submitted to and approved by the PWD prior to implementation.

### City Specifications

The City of Lewiston has adopted the following specifications. If information provided in these specifications differs from the information provided in the adopted City Standards, the City Standards shall take precedence.

- City of Lewiston Standard Modifications to the ISPWC  
*Copy of Modifications available in PW Main Bldg; 215 D Street, Suite B*
- 2020 Idaho Standards for Public Works Construction (ISPWC)  
*Copy of ISPWC Manual in PW Main Bldg; 215 D Street, Suite B*
- City of Lewiston Stormwater Policy and Design Manual  
<https://www.cityoflewiston.org/DocumentCenter/View/5491/Lewiston-Stormwater-Policy-and-Design-Manual-PDF>
- Idaho Code (IDAPA 50) - DEQ 58.01.16- Wastewater Rules  
<https://adminrules.idaho.gov/rules/current/58/580116.pdf>

- Idaho Code (IDAPA 58) - DEQ 58.01.08 - Idaho Rules for Public Drinking Water Systems  
<https://adminrules.idaho.gov/rules/current/58/580108.pdf>

### Reference and Standards Publications

The City of Lewiston has adopted the design manuals listed below. If information provided in these design manuals differ from adopted City Standards, the City Standards shall take precedence.

- Idaho Transportation Department (ITD) Standard Drawings  
<https://apps.itd.idaho.gov/apps/standarddrawings/standarddrawings.htm>
- Idaho Transportation Department (ITD) Roadway Design Manual  
<https://apps.itd.idaho.gov/apps/manuals/RoadwayDesign/Roadwaydesignprintable.htm>
- 2023 Standard Specification for Highway Construction  
<https://apps.itd.idaho.gov/Apps/manuals/SpecBook/SpecBook23.pdf>
- 2009 Manual on Uniform Traffic Control Devices (MUTCD) with Revision 1 & 2 May 2012  
<https://mutcd.fhwa.dot.gov/index.htm> with Idaho Exceptions
- Traffic Manual: Idaho Supplementary Guidance to the MUTCD - April 2020  
[https://apps.itd.idaho.gov/apps/manuals/traffic\\_manual.pdf](https://apps.itd.idaho.gov/apps/manuals/traffic_manual.pdf)
- Idaho Code (IDAPA 39) - ITD 39.03.41 - Rules Governing Traffic Control Devices  
<https://adminrules.idaho.gov/rules/current/39/390341.pdf>
- State of Idaho, Dept. of Environmental Quality; Catalog of Stormwater Best Management Practices for Idaho Cities and Counties, 2005  
(<http://www.deq.idaho.gov/media/622263-Stormwater.pdf>)
- AASHTO's Policy on Geometric Design of Highways and Streets 2011

Publications not found on the Internet are available in the Public Works' Library for viewing but not for checkout; please call (208) 746-1316, extension 0 for appointment or stop-by at 215 'D' Street, Suite B.

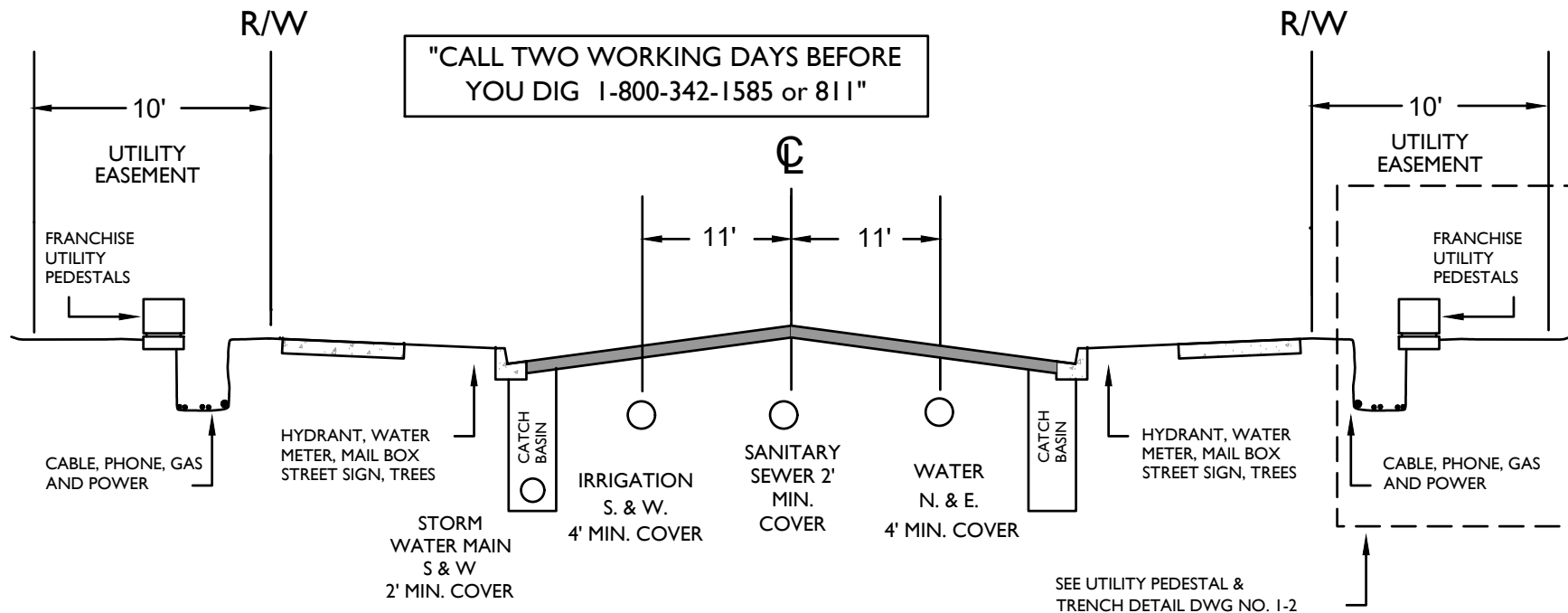
Questions, comments, and suggestions can be directed to the Public Works Department at (208) 746-1316, extension 0.

|                                      |                                                                 |                         |
|--------------------------------------|-----------------------------------------------------------------|-------------------------|
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|                                                                            |                                                  |      |
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# **NOTE:**

1. LOCATIONS OF EXISTING UTILITIES MUST BE FIELD LOCATED WITH THEIR RESPECTIVE OWNERS BEFORE DIGGING OR MAKING NEW CONNECTIONS.
2. SANITARY SEWER CAN VARY 4' FROM CENTERLINE AROUND CURVES, HOWEVER DEQ MINIMUM SEPARATION DISTANCES MUST BE MET.
3. WATER AND SEWER LATERALS SHALL BE STUBBED OUT TO THE FAR SIDE OF THE UTILITY EASEMENT AND CLEARLY MARKED AS PER CITY STANDARD.
4. STREET LIGHTING SHALL BE AT EACH INTERSECTION AND MID-BLOCK WITH A MAXIMUM SPACING OF 350' BETWEEN LIGHT POLES.
5. UTILITY POLES, FIRE HYDRANTS, LIGHT POLES, AND STREET SIGNS SHALL BE LOCATED WITH 1.5' MINIMUM CLEARANCE FROM BACK OF CURB TO CLOSEST FACE OF UTILITY AND SHALL NOT BE PLACED INTO SIDEWALK UNLESS APPROVED BY THE CITY ENGINEER AND DRAWING NO. 1-2.
6. TRAFFIC CONTROL DEVICES AND THEIR LOCATION SHALL CONFORM TO LATEST ADOPTED EDITION OF MUTCD.
7. ALL UTILITY FRAMES AND LIDS TO BE LOCATED OUTSIDE OF WHEEL PATH AREAS. THE TOP OF THE UTILITIES WILL HAVE A TOLERANCE OF +0 TO -1/4".
8. TREE SPECIES AND PLACEMENT WITHIN RIGHT-OF-WAY MUST HAVE WRITTEN APPROVAL OF THE CITY FORESTER AND THE CITY ENGINEER.
9. ANY DEVIATION FROM THESE STANDARDS SHALL HAVE THE WRITTEN CONSENT OF THE CITY ENGINEER.

## **CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT**

### **UTILITY LOCATIONS**



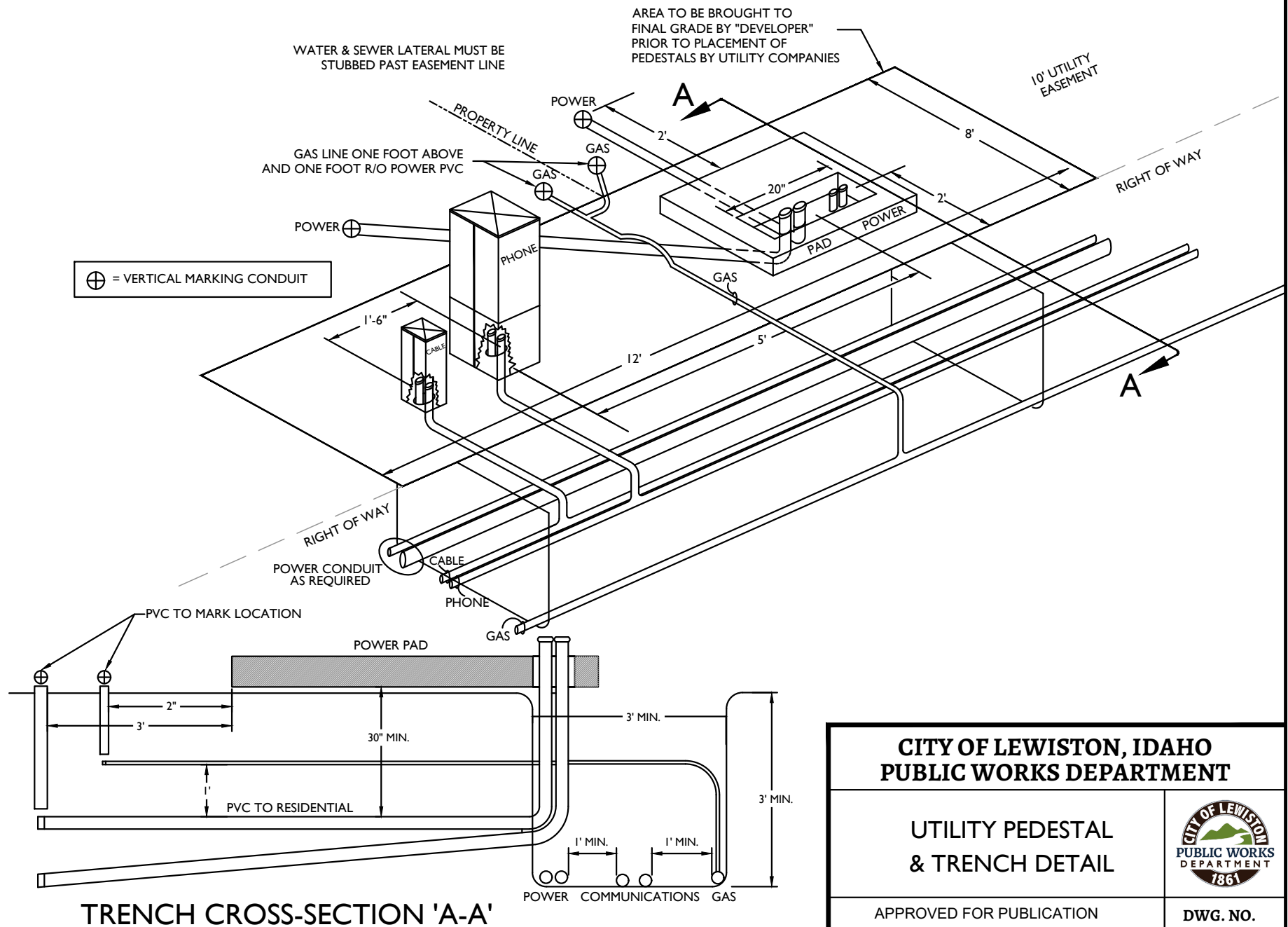
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**DWG. NO.**

City Engineer

Date

**1-1**



**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**UTILITY PEDESTAL  
& TRENCH DETAIL**



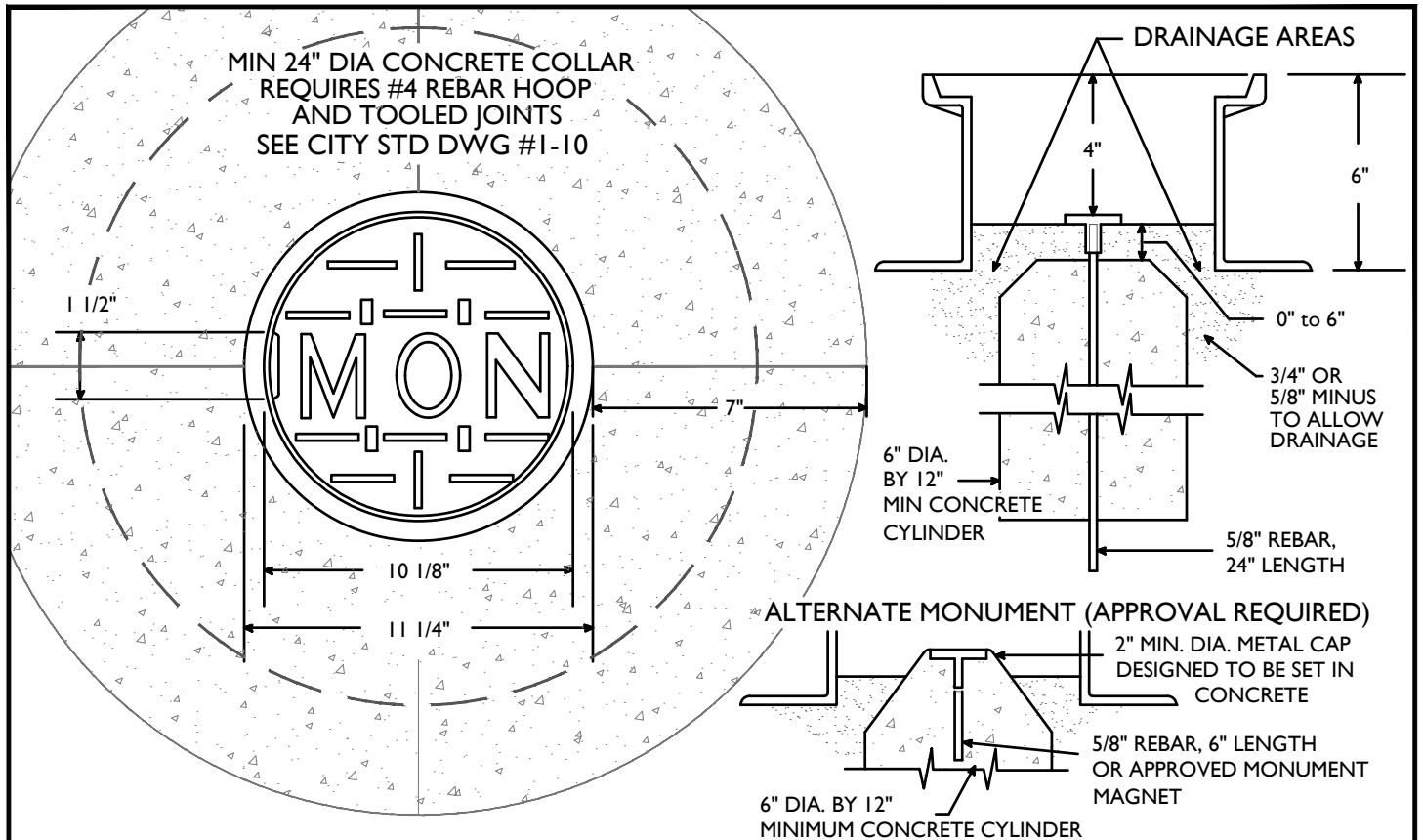
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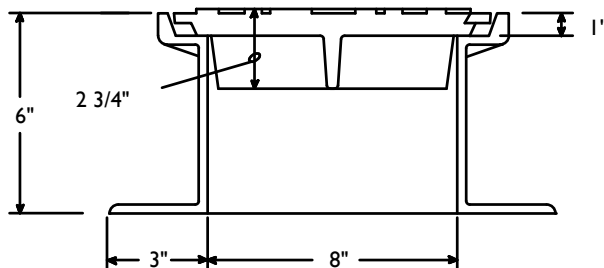
City Engineer

Date

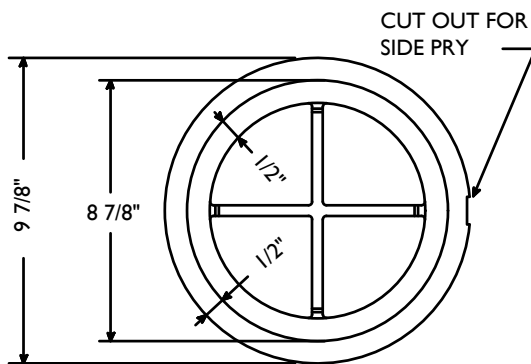
**1-2**



TOP VIEW- FRAME & COVER



SECTION- FRAME & COVER



BOTTOM VIEW OF COVER

#### NOTES:

1. MONUMENT CASE SHALL BE D&L FOUNDRY MODEL NO. K-6524 OR APPROVED EQUAL. SEE CITY STD DWG #1-10 FOR CONCRETE COLLAR INSTALLATION AND CASE HEIGHT ADJUSTMENTS.
2. MONUMENT INSTALLATION TO BE COMPLETED BY A LICENSED SURVEYOR.
3. MONUMENT SHALL CONSIST OF A METAL CAP ON A 5/8" DIAMETER BY 24" LONG DEFORMED STEEL BAR SET IN CONCRETE. THE CAP SHALL BE A METAL INSULATED REBAR CAP WITH 2" MINIMUM DIAMETER, BERNTSON ITEM #QSD5200, #RBD5325 OR APPROVED EQUAL. THE CAP SHALL BE STAMPED WITH THE PLS NUMBER AND PUNCHED TO SHOW THE TRUE POINT. A METAL CAP SET IN CONCRETE MAY BE USED WITH WRITTEN APPROVAL FROM THE CITY SURVEYOR.
4. IN NO CIRCUMSTANCE SHALL THE CONCRETE USED TO INSTALL THE CASE OR THE INTERNAL MONUMENT FILL THE BOTTOM OF THE MONUMENT CASE AND PREVENT DRAINAGE OF THE CASE.
5. MONUMENTS SHALL BE SET AT ALL STREET CENTERLINE PC, PT, AND INTERSECTION POINTS. MONUMENTS SHALL BE SET AT THE CENTER POINT OF STANDARD CUL-DE-SACS. ADDITIONAL MONUMENTS SHALL BE SET IN OFFSET CUL-DE-SACS AT THE INTERSECTION OF THE STREET CENTERLINE WITH THE OFFSET CENTERLINE.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

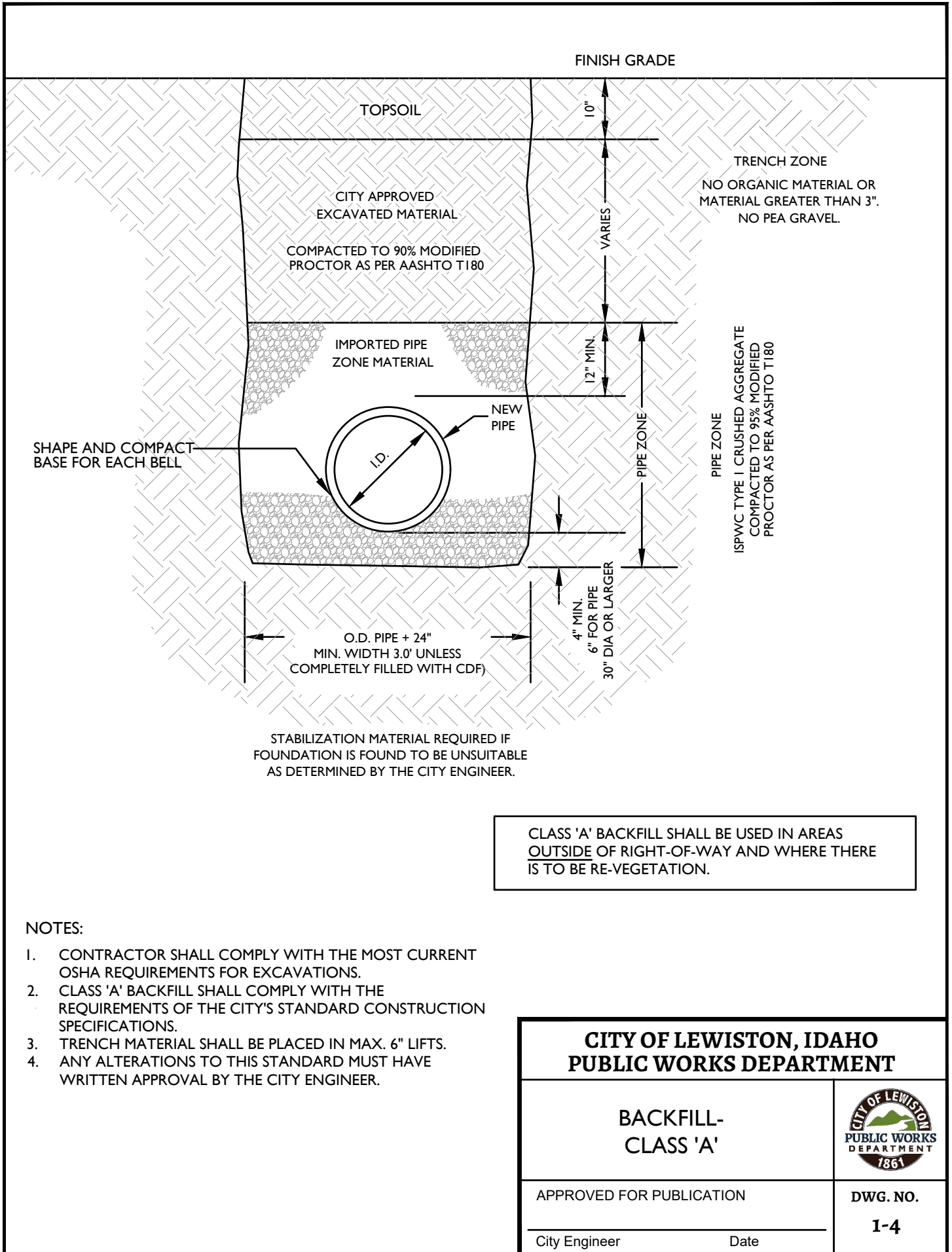
#### STREET MONUMENT WITH FRAME & COVER



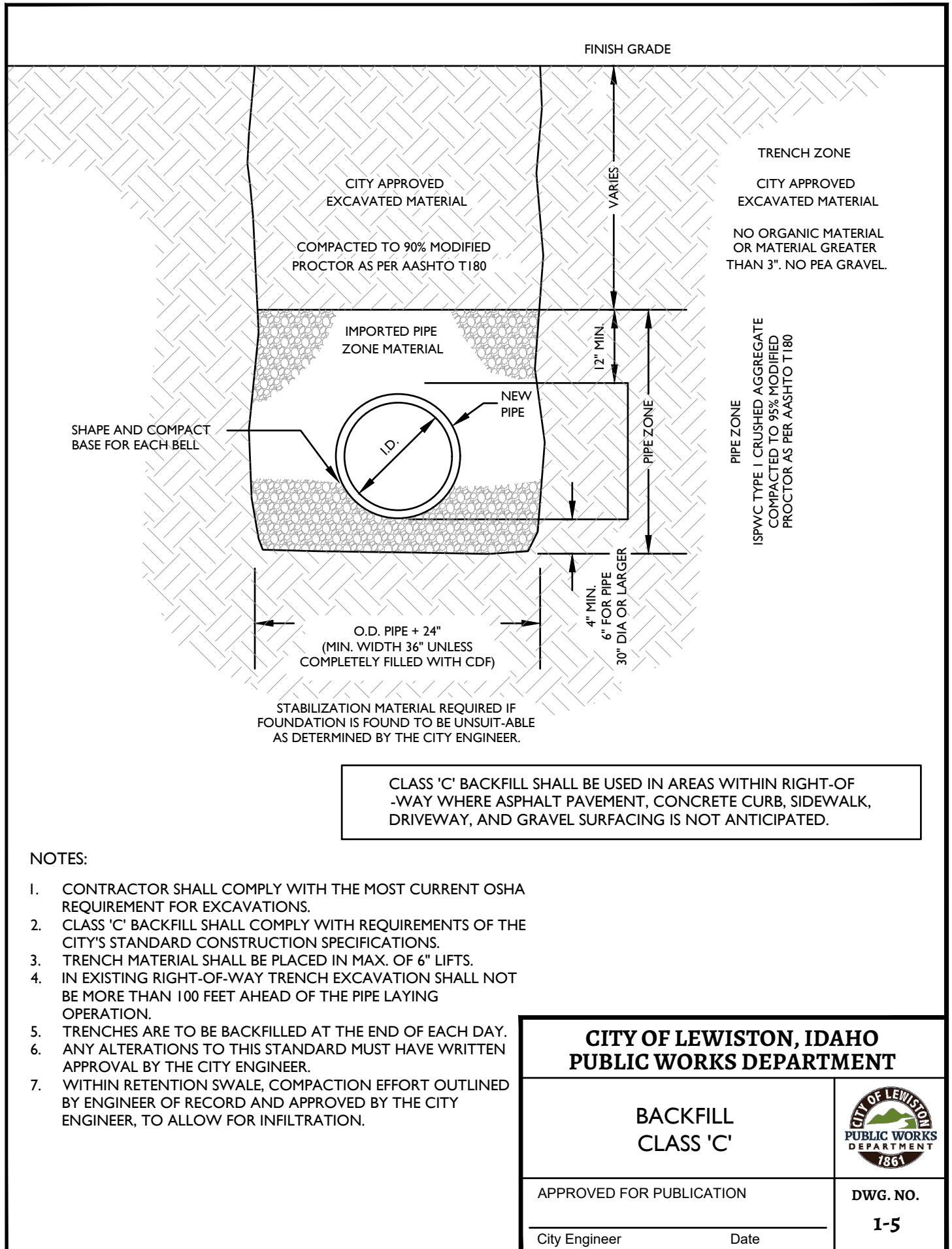
DWG. NO.  
**1-3**

City Engineer

Date





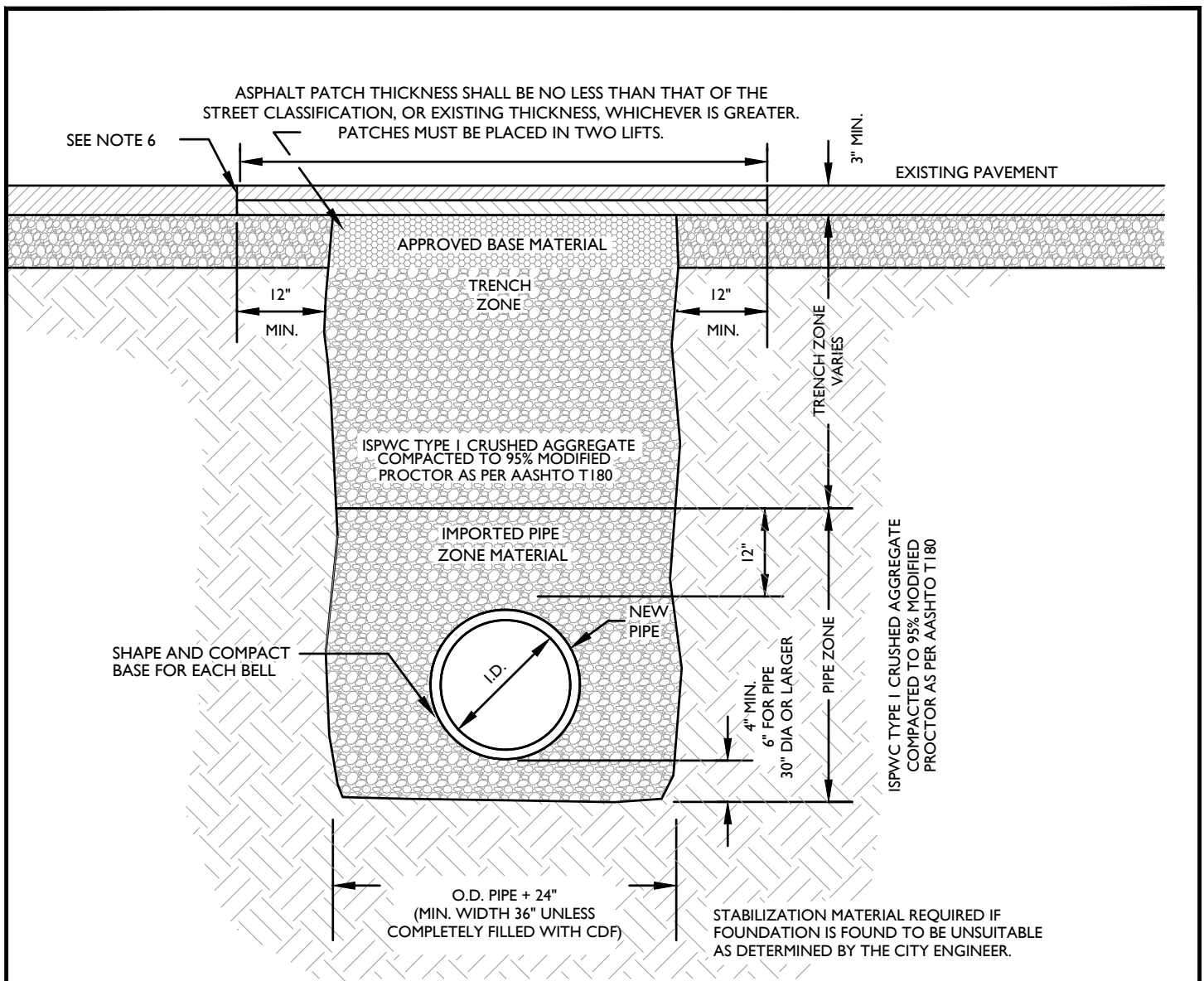


**NOTES:**

1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENT FOR EXCAVATIONS.
2. CLASS 'C' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS.
3. TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
4. IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
5. TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
6. ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY THE CITY ENGINEER.
7. WITHIN RETENTION SWALE, COMPACTION EFFORT OUTLINED BY ENGINEER OF RECORD AND APPROVED BY THE CITY ENGINEER, TO ALLOW FOR INFILTRATION.

| CITY OF LEWISTON, IDAHO<br>PUBLIC WORKS DEPARTMENT |                                                                                       |
|----------------------------------------------------|---------------------------------------------------------------------------------------|
| BACKFILL<br>CLASS 'C'                              |  |
| APPROVED FOR PUBLICATION                           | DWG. NO.                                                                              |
| City Engineer _____                                | 1-5                                                                                   |
| Date _____                                         |                                                                                       |





#### NOTES:

1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
2. ALL TRENCHES EXCAVATED WITHIN EXISTING PAVED STREETS SHALL BE BACKFILLED AND SURFACED THE SAME DAY WITH A 2" THICK COMPACTED COLD MIX ASPHALT PATCH (SMOOTH) - TO BE REPLACED WITH THE CITY'S STANDARD HOT MIX ASPHALT SURFACING AS SOON AS SCHEDULING ALLOWS; UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER.
3. THE NEW ASPHALT PATCH SHALL MATCH THE EXISTING PAVEMENT GRADE. ACROSS THE WIDTH OF THE TRENCH THE NEW SURFACE SHALL BE FLUSH OR UP TO 1/4" ABOVE THE EXISTING PAVEMENT GRADE.
4. EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH AND IN CONTINUOUS, STRAIGHT LINES. BROKEN EDGES WILL NOT BE ALLOWED. PAVEMENT CUTS SHALL BE 'TACKED' IMMEDIATELY PRIOR TO INSTALLATION OF THE HOT MIX PATCH.
5. AFTER BACKFILLING TRENCH REMOVE ALL BROKEN OR LOOSE ASPHALT OR CONCRETE BEYOND IN THE INITIAL TRENCH.
6. PATCH CANNOT OVERLAP ANOTHER PARALLEL PATCH AND CANNOT LEAVE EXISTING ASPHALT LESS THAN 36" WIDE.
7. JOINTS TO BE TACKED AND SANDED WITH EMULSIFIED TACK.
8. ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY THE CITY ENGINEER.
9. RESTORE DAMAGED OR REMOVED PAVEMENT MARKINGS.

CLASS 'F' EXISTING STREETS BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT CONCRETE CURB, SIDEWALK, DRIVEWAY, GRAVEL SURFACING WILL BE REPLACED.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

BACKFILL-  
CLASS 'F'



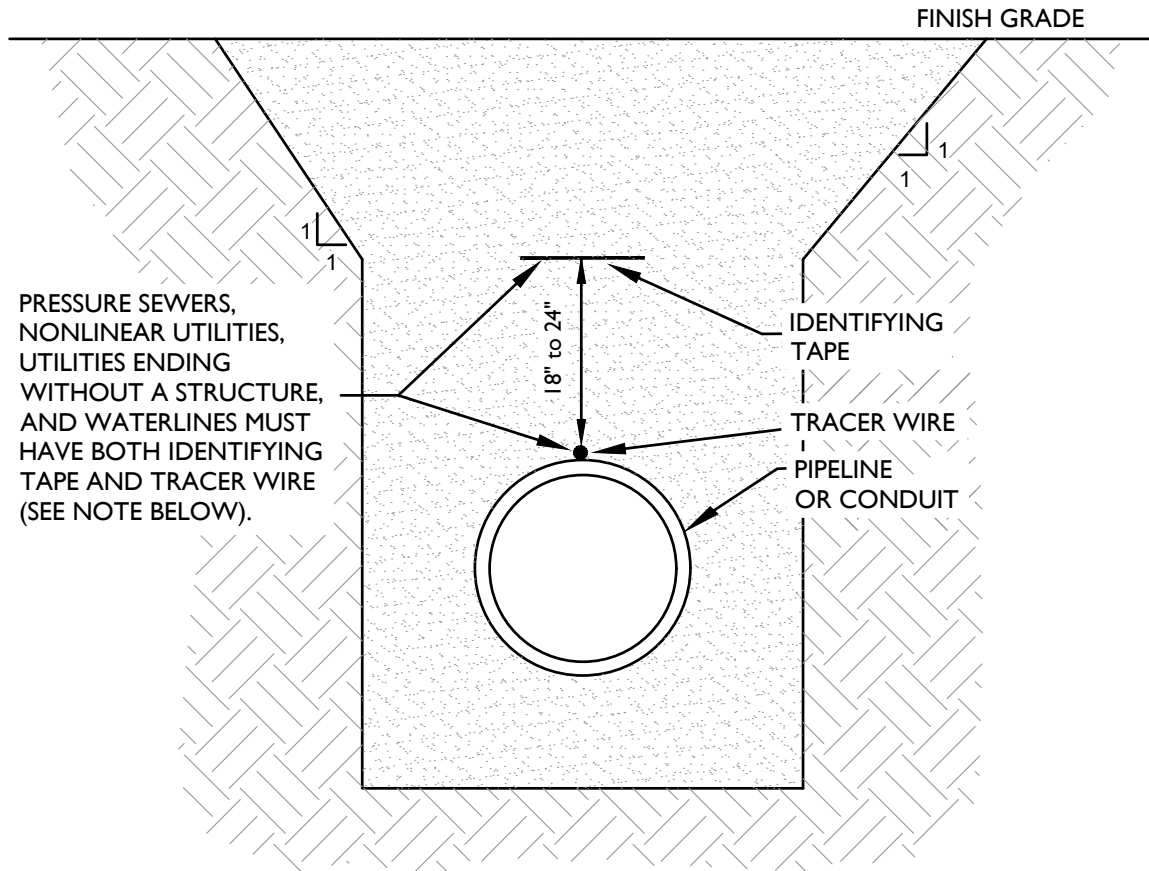
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City Engineer

Date

1-7



| UTILITY | COLOR | WIDTH | TRACER | IMPRINT                         |
|---------|-------|-------|--------|---------------------------------|
| WATER   | BLUE  | 3"    | NO     | CAUTION BURIED WATER LINE BELOW |

NO. 12 AWG. COPPER TRACER WIRE INSULATED WITH 30 MIL OF HIGH DENSITY POLYETHYLENE (HDPE) CLASSIFIED AS HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) IN 500 FT REELS. WIRE SHALL BE ATTACHED TO WATERLINE AT INTERVALS NOT TO EXCEED 15 FT SEPARATION.

ALL SPLICES SHALL BE 3M DIRECT BURY SPLICE KIT DBR/Y-6 AND CONTRACTOR SHALL CONDUCT A CONDUCTIVITY TEST ON ALL TRACER WIRE SPLICES.

| UTILITY        | COLOR  | WIDTH | TRACER | IMPRINT                               |
|----------------|--------|-------|--------|---------------------------------------|
| STORM SEWER    | GREEN  | 3"    | NO     | CAUTION BURIED STORM SEWER LINE BELOW |
| SANITARY SEWER | GREEN  | 3"    | NO     | CAUTION BURIED SEWER LINE BELOW       |
| GAS            | YELLOW | 3"    | NO     | CAUTION BURIED GAS LINE BELOW         |
| CABLE          | ORANGE | 3"    | NO     | CAUTION BURIED CABLE LINE BELOW       |
| ELECTRICAL     | RED    | 3"    | NO     | CAUTION BURIED ELECTRIC LINE BELOW    |

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### IDENTIFYING TAPE DETAIL



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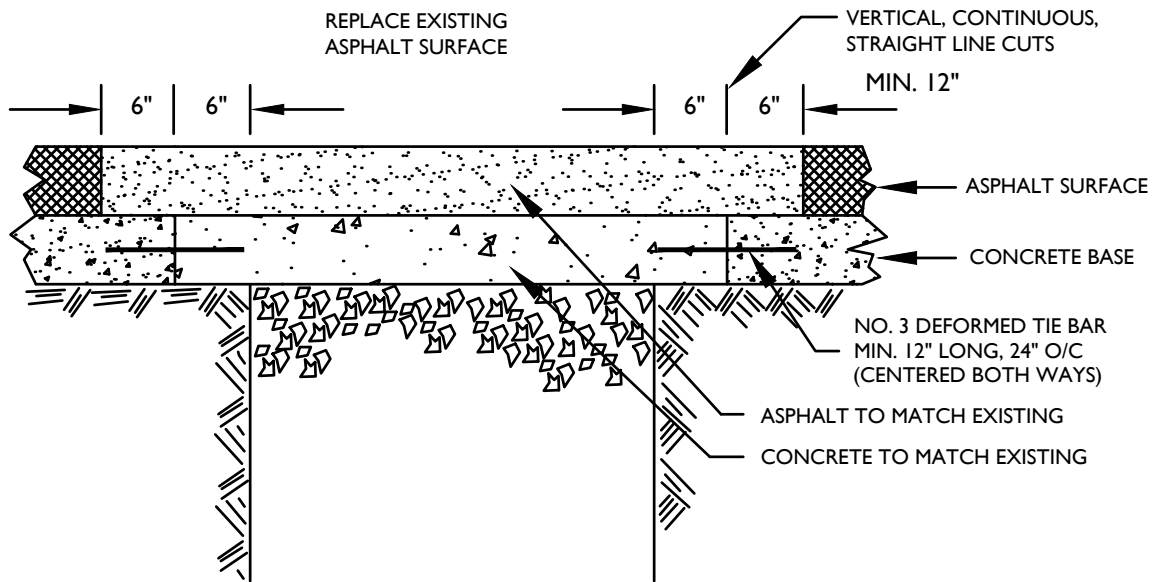
City Engineer

Date

1-8

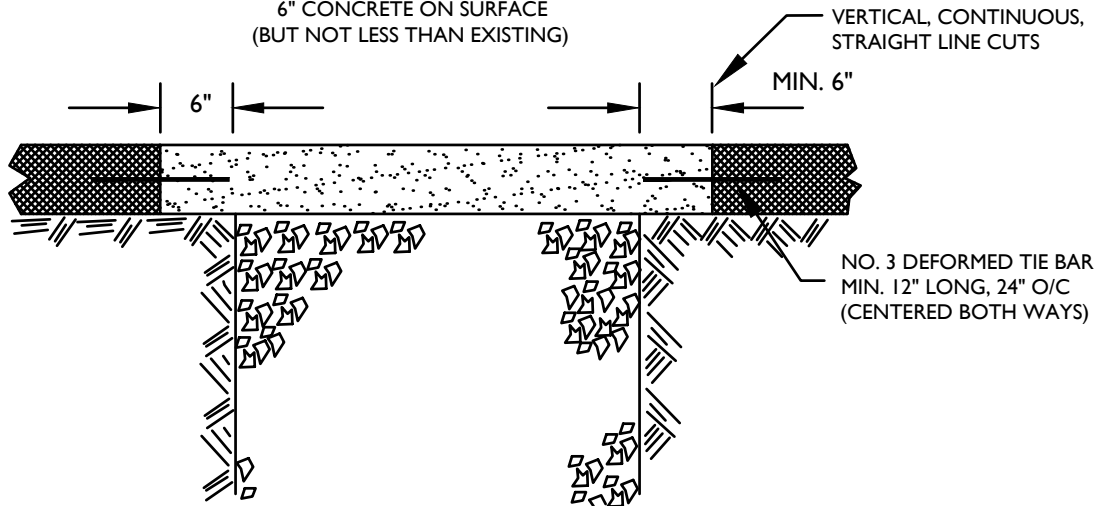
### TYPE "A" REPAIR

REPLACE EXISTING  
ASPHALT SURFACE



### TYPE "B" REPAIR

6" CONCRETE ON SURFACE  
(BUT NOT LESS THAN EXISTING)



#### NOTE:

1. COMPLETED PATCH SHALL BE FLUSH AND SMOOTH WITH EXISTING BITUMINOUS SURFACE.
2. CONCRETE PAVEMENT SHALL BE SPECIFIED BY THE CITY ENGINEER.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### CONCRETE STREET REPAIR DETAIL



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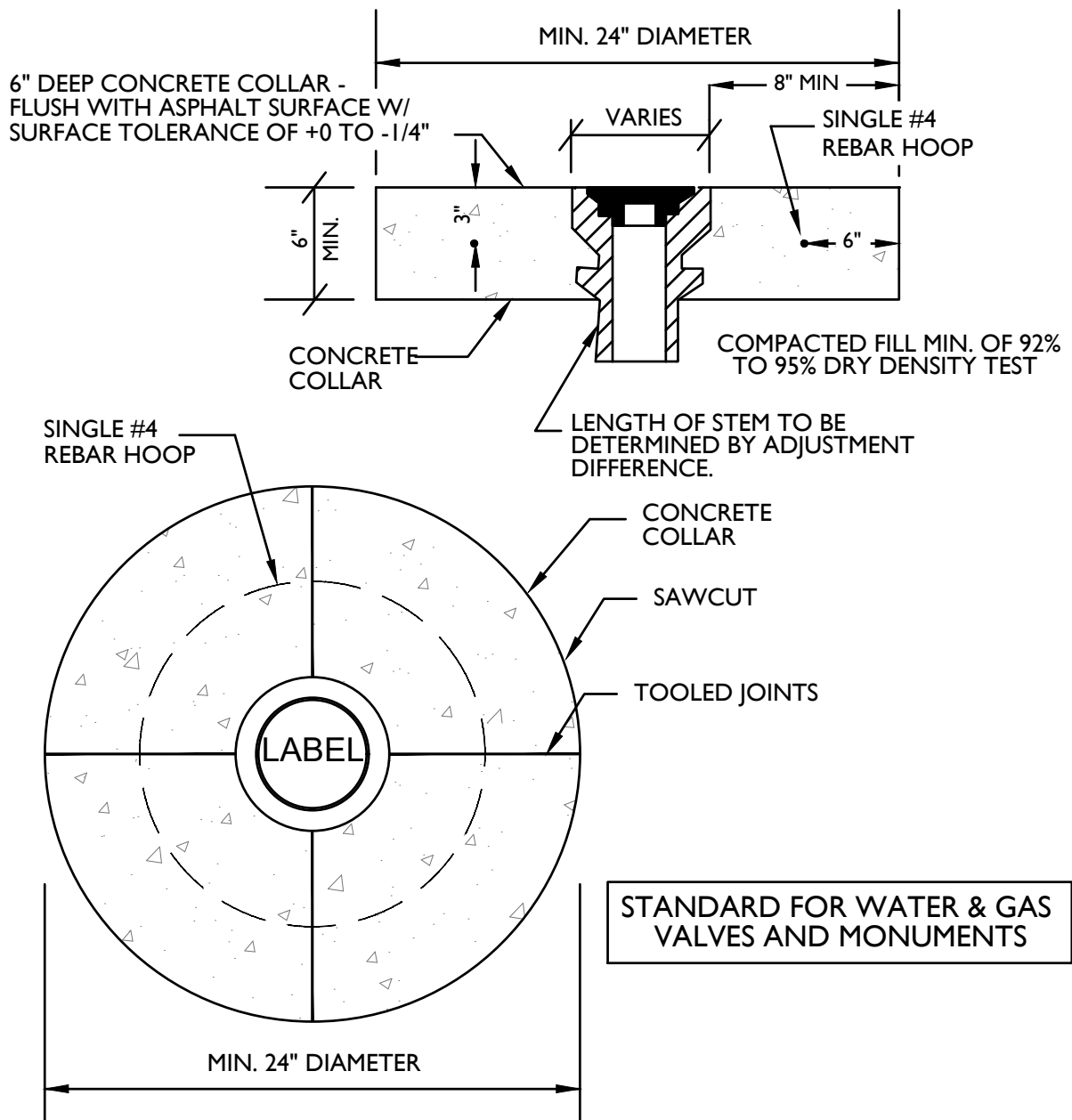
DWG. NO.

City Engineer

Date

1-9





## NOTES:

1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 6" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
2. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
4. UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### WATER & GAS VALVES, AND MONUMENTS ADJUST UTILITIES



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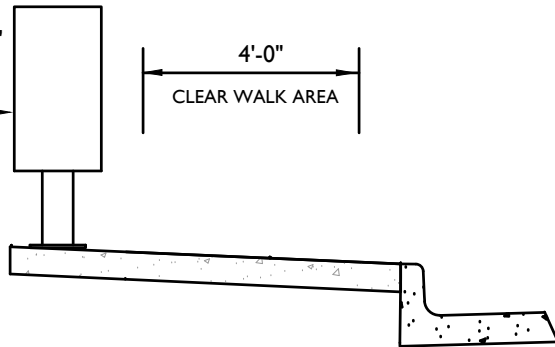
DWG. NO.

City Engineer

Date

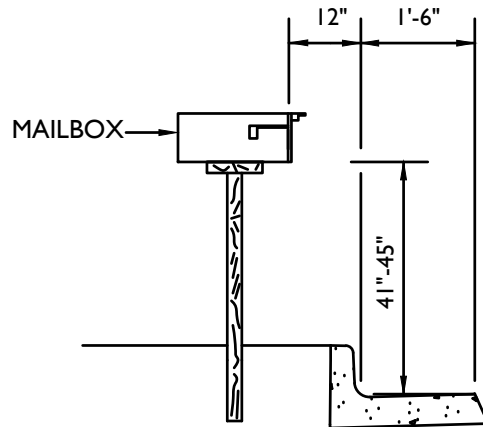
I-10

U.S. POSTAL  
SERVICE  
'COMMUNITY'  
MAILBOX



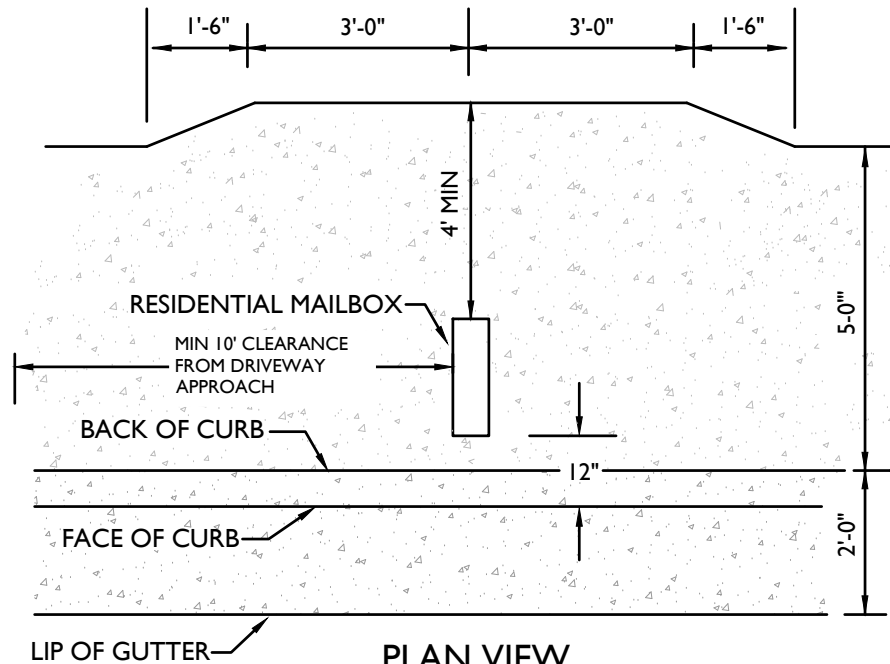
COMMUNITY STYLE

THE 'CLUSTER BOX UNITS' STYLE MAILBOXES  
SHALL BE PLACED IN LOCATIONS APPROVED  
BY BOTH THE POSTAL SERVICE AND THE  
CITY ENGINEER.



RESIDENTIAL MAILBOXES SHOULD BE LOCATED WITH  
FRONT OF THE BOX 12" BACK OF THE FACE OF CURB  
OR 12" BEHIND THE EDGE OF THE TRAVELED WAY.

RESIDENTIAL MAILBOX



PLAN VIEW

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**CURBSIDE MAILBOX DETAIL**



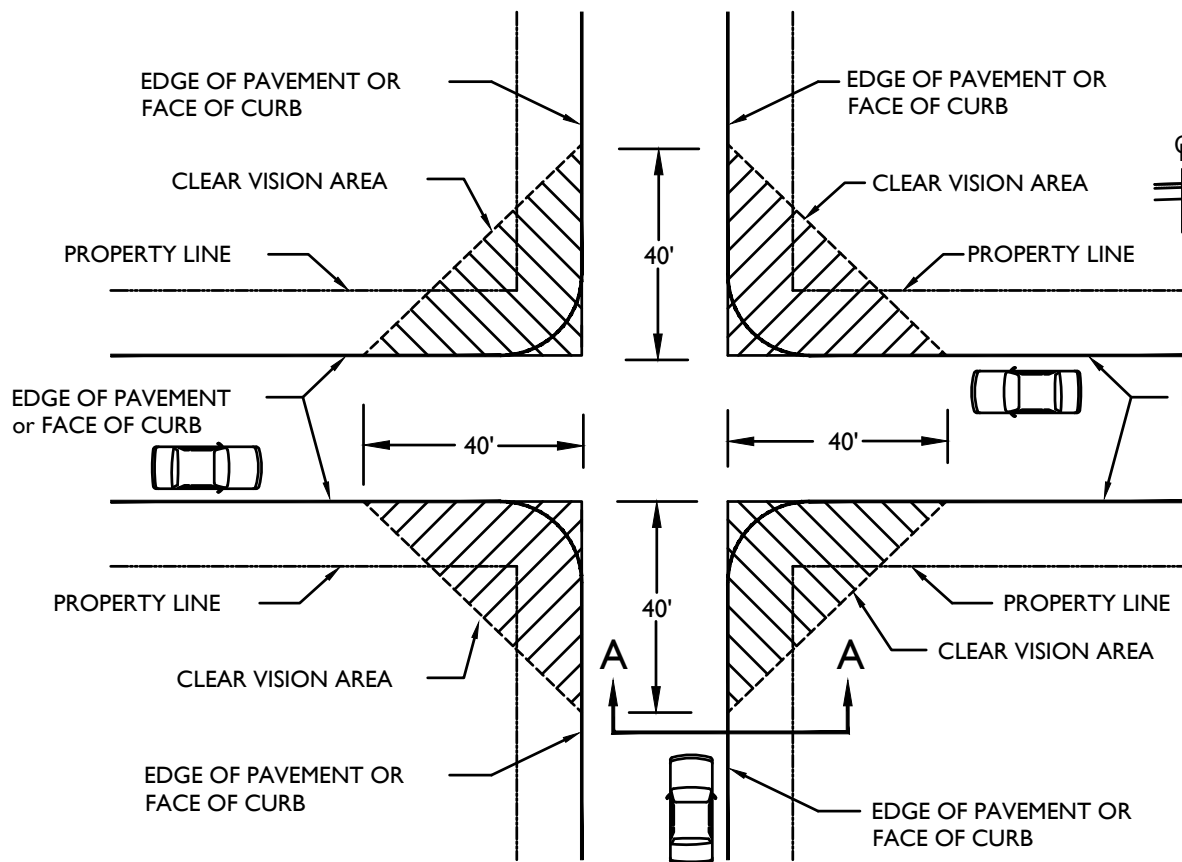
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DWG. NO.

City Engineer

Date

**1-11**



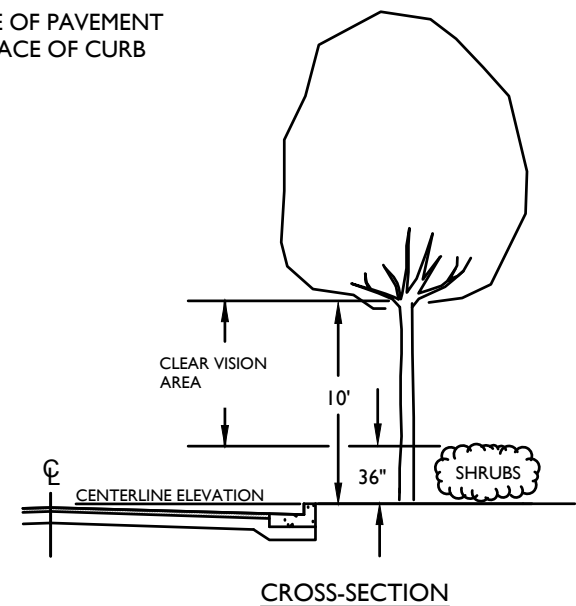
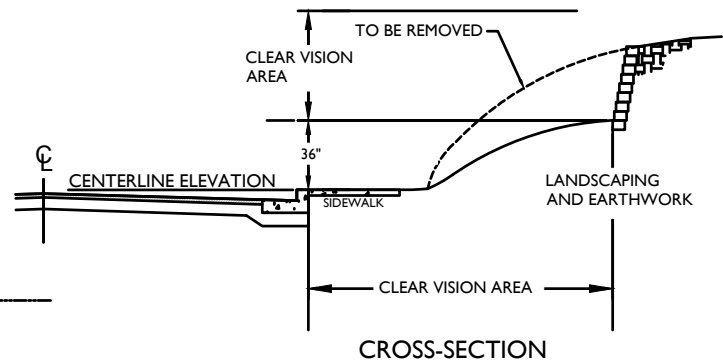
## CLEAR VISION AREA

### NOTE:

THE CLEAR VISION AREA SHALL CONTAIN NO SHRUBS OR OTHER VEGETATION, FENCES, WALLS, SIGNS OR OTHER TEMPORARY OR PERMANENT SIGHT OBSTRUCTIONS OF ANY NATURE EXCEEDING 36" IN HEIGHT ABOVE THE EXISTING CENTERLINE ELEVATION OF THE ADJACENT ROADWAY.

EXISTING TREES IN THIS AREA THAT EXCEED 36' MUST HAVE ALL BRANCHES AND FOLIAGE REMOVED TO A HEIGHT OF 10' ABOVE THE EXISTING CENTERLINE ELEVATION OF THE ADJACENT ROADWAY.

THIS DOES NOT INCLUDE SITE DISTANCES. SITE DISTANCES SHALL BE ENUMERATED SEPERATELY PER ASSHTO GUIDELINES.



## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### CLEAR VISION AREA



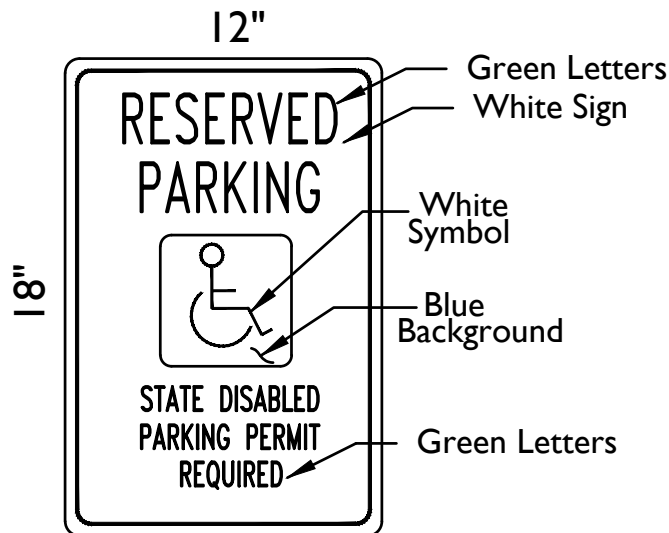
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DWG. NO.

City Engineer

Date

**1-12**



**Note:**

1. Sign follows the Idaho State Specific Guidelines for 12x18 Handicapped Parking.
2. Sign posts and their foundation shall be constructed as to hold signs in a proper position to resist swaying in the wind or displacement by vandalism.
3. Lettering & reflectorization shall conform to MUTCD.
4. Disabled parking sign mounted on walls or buildings shall also be 7' min. to the bottom of the sign to finished grade.

7' MIN.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**DISABLED  
PARKING SIGN  
INSTALLATION**



APPROVED FOR PUBLICATION

**DWG. NO.**

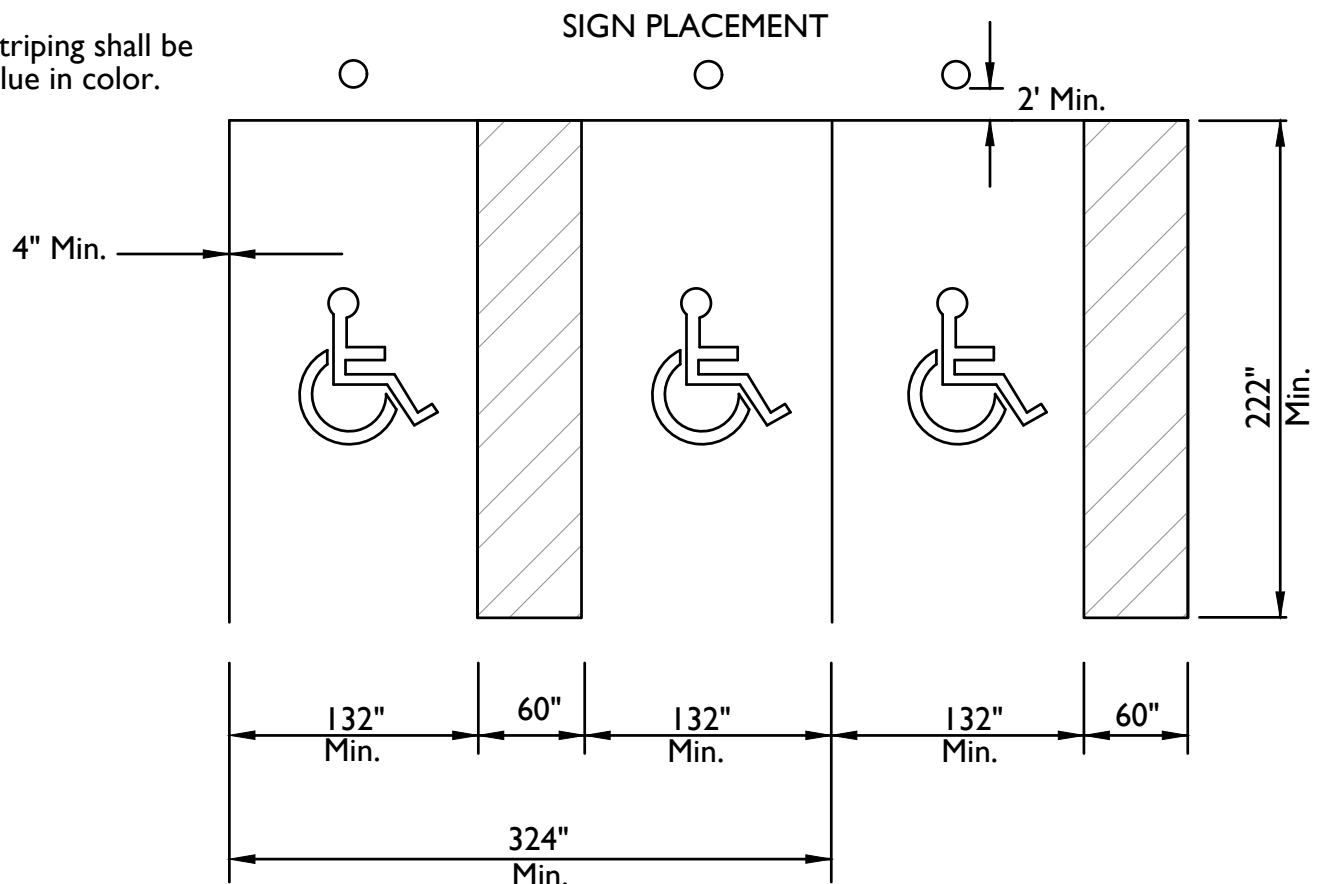
City Engineer

Date

**1-13**

# TYPICAL DISABLED PARKING STALL

Striping shall be blue in color.



## Notes:

1. The international accessibility symbol as provided in section 49-410 Idaho Code shall be painted in each space.
2. Disabled parking stalls and access aisles shall not slope more than 2% in any direction.
3. If a curb ramp is required, it cannot project into the access aisle.
4. Each access aisle must connect directly to an accessible route.
5. Intent of this standard is to conform to ADA and ANSI requirements. These requirements shall take precedence over this standard.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### DISABLED PARKING STALLS



APPROVED FOR PUBLICATION

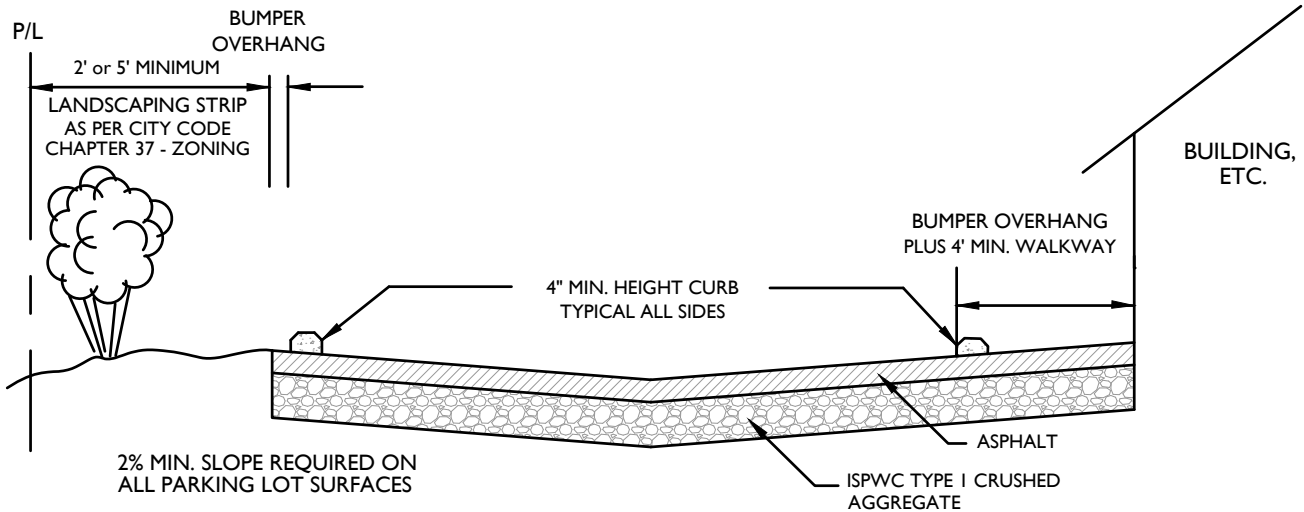
DWG. NO.

City Engineer

Date

**1-14**





| PARKING LOT USE                                                              | SURFACING DEPTHS * |      |
|------------------------------------------------------------------------------|--------------------|------|
|                                                                              | ASPHALT            | ROCK |
| LIGHT- PARKING LOTS UP TO 85 STALLS<br>NO HEAVY TRUCKS                       | 2"                 | 4"   |
| MEDIUM- PARKING LOTS FROM 85-500 STALLS<br>LESS THAN 10 HEAVY TRUCKS PER DAY | 2"                 | 6"   |
| HEAVY- PARKING LOTS OVER 500 STALLS<br>10-20 HEAVY TRUCKS PER DAY            | 4"                 | 4"   |
| VERY HEAVY- 20-400 HEAVY TRUCKS PER DAY                                      | 4"                 | 8"   |

(Heavy trucks are those with a gross weight exceeding 8,000 lbs.)

\* These are minimum surfacing depths for typical conditions.

The owner is responsible for determining if greater depths are necessary.

Surfacing depths less than minimum require engineering study and approval by The City Engineer.

#### NOTES:

- Concrete and brick pavers are acceptable surfacing materials for parking lots. Where special parking conditions occur such as overflow or seasonal parking areas, other surfacing may be used when approved by The City Engineer.
- See Standard #1-15 for parking layout and striping dimensions.
- Sight obscuring fence, 5' to 6' in height, required when dwelling is adjacent to parking lot except where vision clearance is required.
- Surface runoff must be directed to on site detention facilities as per city codes and standards. Drainage plan shall be subject to approval by The City Engineer.
- Root shields are recommended where shallow rooted, vigorous growth trees are located in planting strip to avoid pavement damage.
- Work within public right-of-way shall be to city standards and requires a right-of-way work permit.
- Landscaping plan shall be subject to design requirements of City Code Chapter 37, Zoning or approval by The Community Development Director.
- In Industrial and Port Zones where gravel surfacing is permitted by code for parking and storage areas crushed rock with the following gradation shall be used:

| SIEVE SIZE | % PASSING |
|------------|-----------|
| 1"         | 100       |
| 3/4"       | 90-100    |
| No. 4      | 40-65     |
| No. 8      | 30-50     |
| No. 200    | 3-9       |

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### PARKING LOT SECTION



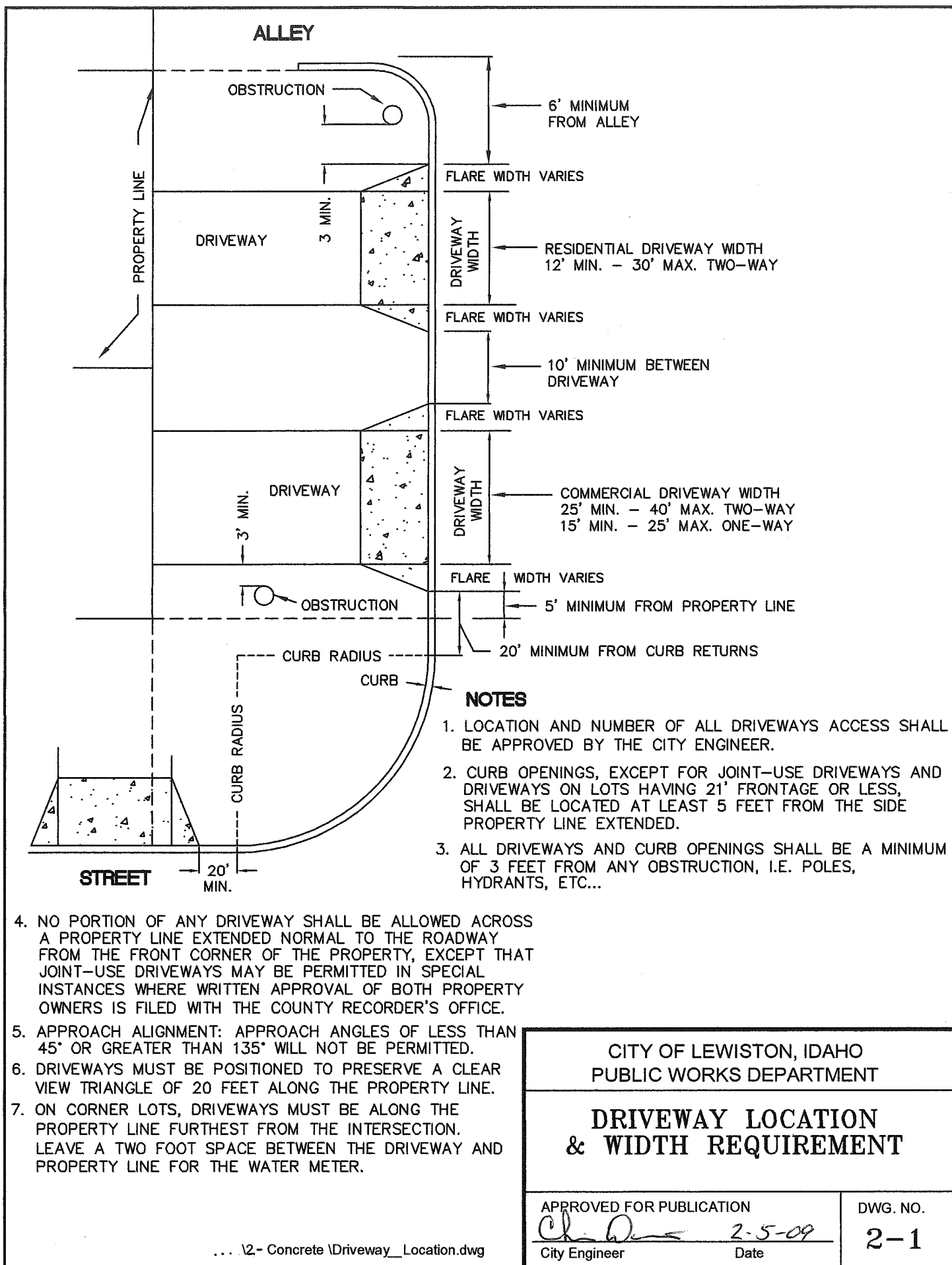
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DWG. NO.

City Engineer

Date

**1-16**



CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

## DRIVEWAY LOCATION & WIDTH REQUIREMENT

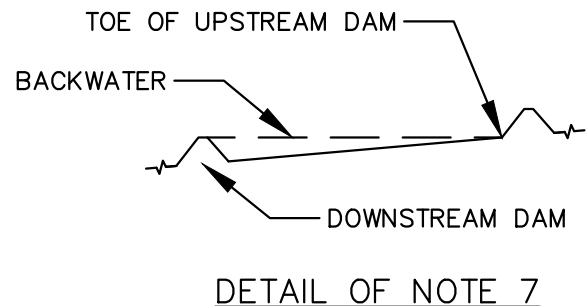
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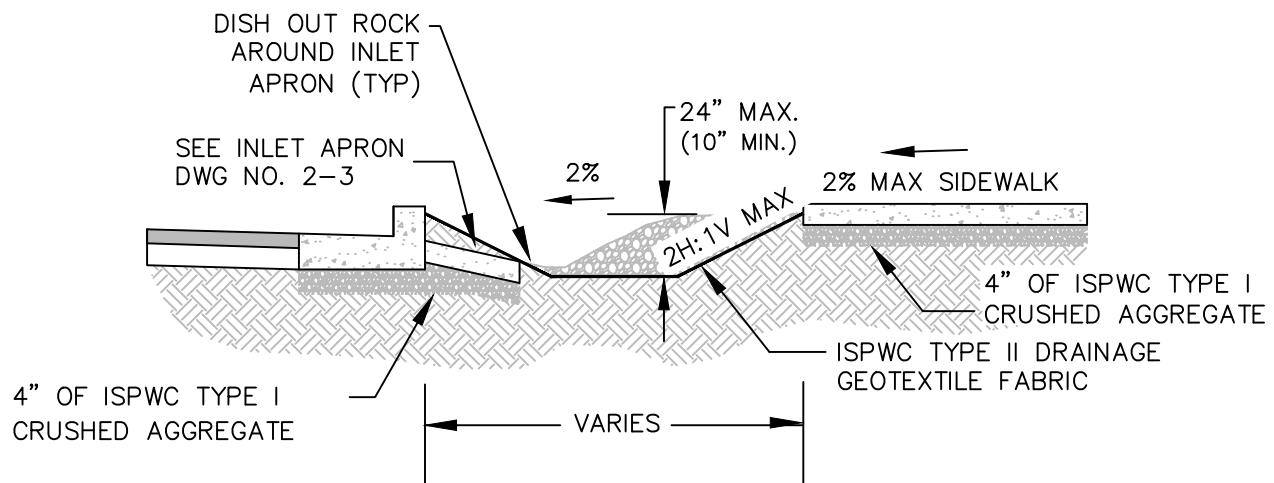
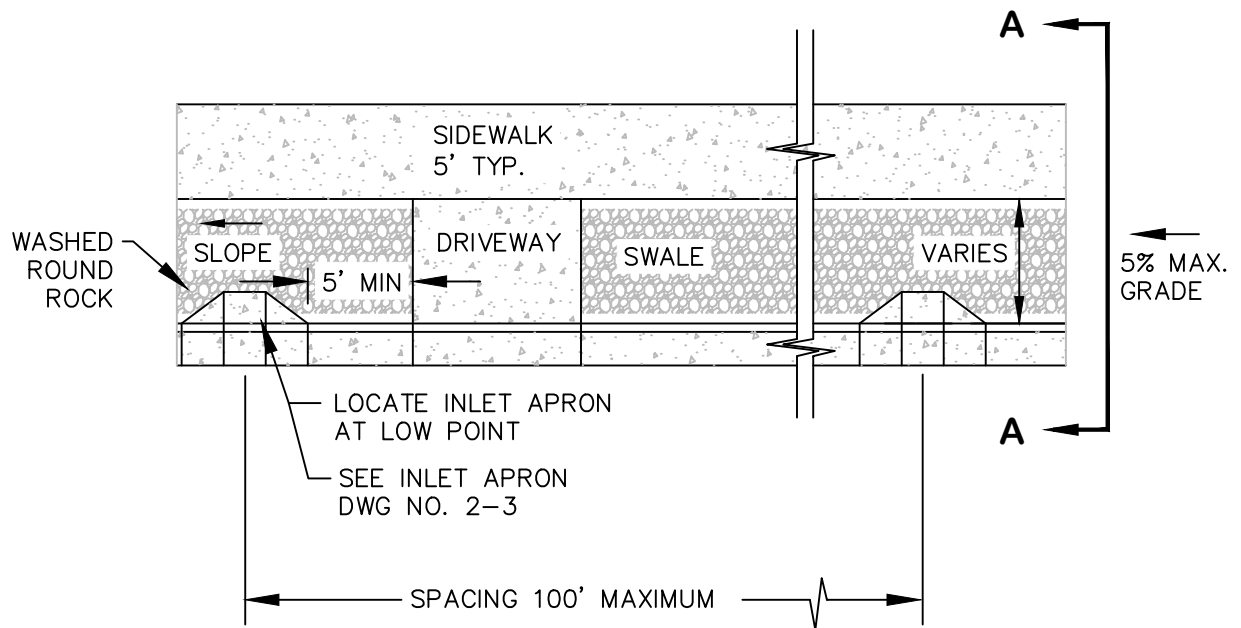
*Ch. D.*  
City Engineer

2-5-09  
Date

DWG. NO.

2-1





## RETENTION SWALE DETAIL

### SECTION 'A-A'

#### NOTES:

1. SIDE SLOPES SHALL BE 2H:1V (MAX.)
2. ALL SWALES SHALL HAVE A MINIMUM INFILTRATION RATE OF 0.5"/HR; GEOTECH REPORT IS REQUIRED TO INDICATE PERCOLATION WILL OCCUR WITHIN 48 HOURS.
3. SEE INLET APRON DETAIL DWG NO. 2-3
4. INLET APRON SHALL BE INSTALLED AT THE SAME TIME AS DRIVEWAY APRON AND ON THE LOWER SIDE OF DRIVEWAY APRON.
5. FRONT OF SIDEWALK SHALL BE 0.12' HIGHER THAN TOP OF CURB.
6. DEPTH OF WASHED ROUND ROCK AREA SHALL BE DETERMINED BY THE STORAGE NEEDS OF THE ADJACENT ROADWAY.
7. SPACE CHECK DAMS ACCORDING TO THE HEIGHT OF THE DAM AND THE SLOPE OF THE CHANNEL SO THAT THE BACKWATER FROM THE DOWNSTREAM DAM REACHES THE TOE OF UPSTREAM DAM.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### NARROW RETENTION SWALE



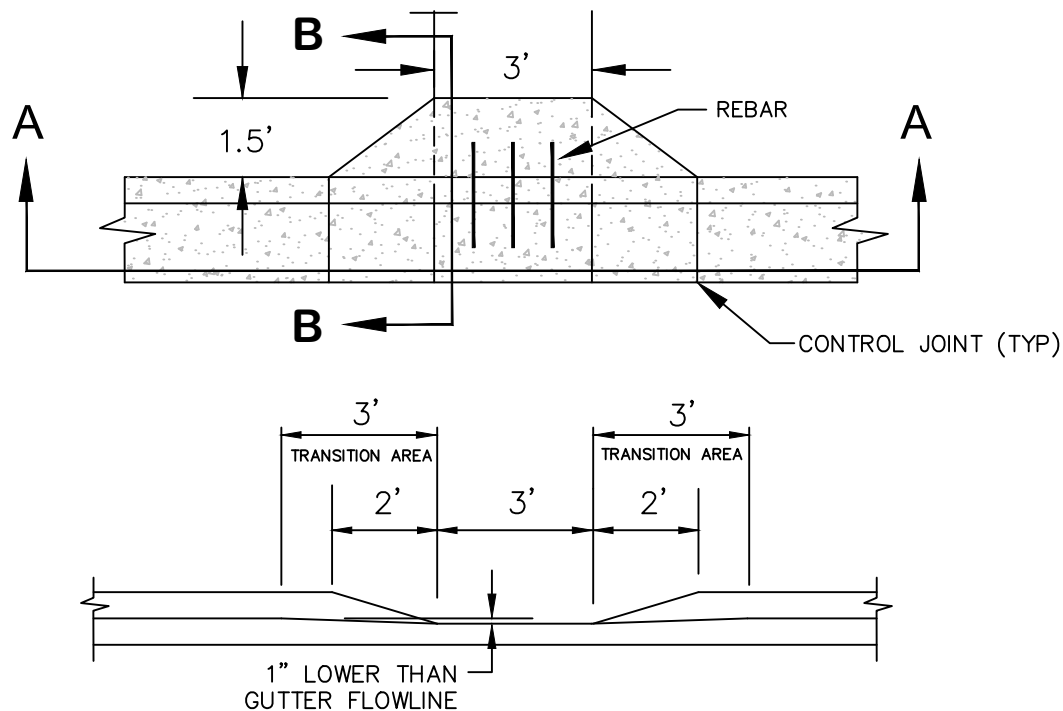
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

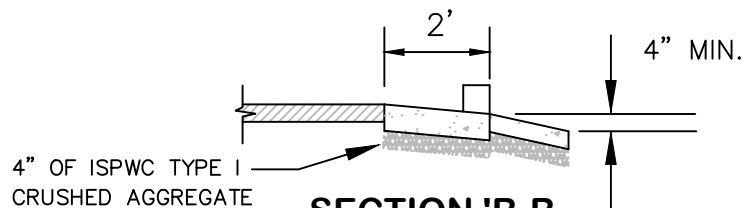
Date

**2-2A**



### SECTION 'A-A'

NOT TO SCALE



### SECTION 'B-B'

NOT TO SCALE

#### NOTES:

1. SET APRON ENTRANCE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL TRANSITION TO 3' ON EACH SIDE OF INLET APRON TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.
2. NOT TO BE USED WHEN BUILDING ELEVATION IS LOWER THAN THE EXISTING CENTERLINE ELEVATION OF THE ADJACENT ROADWAY.
3. APRON TO SLOPE TO BOTTOM OF SWALE.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### INLET APRON



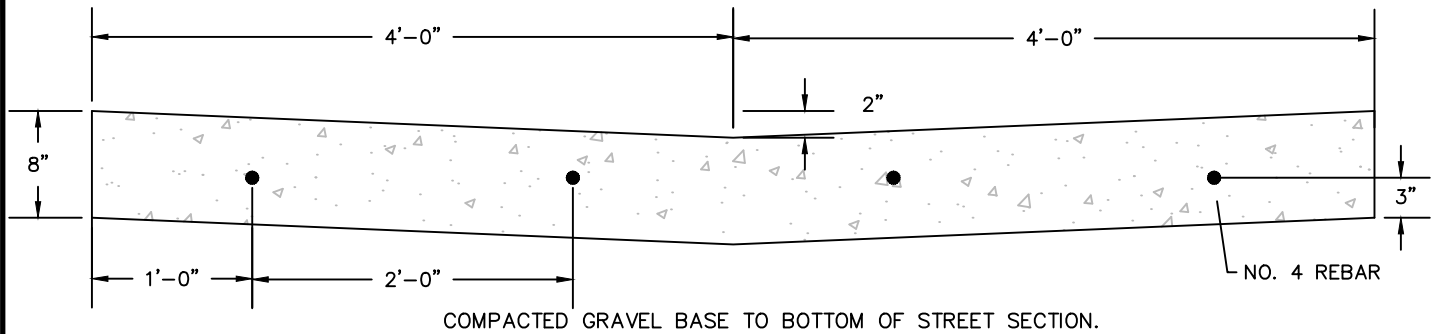
APPROVED FOR PUBLICATION

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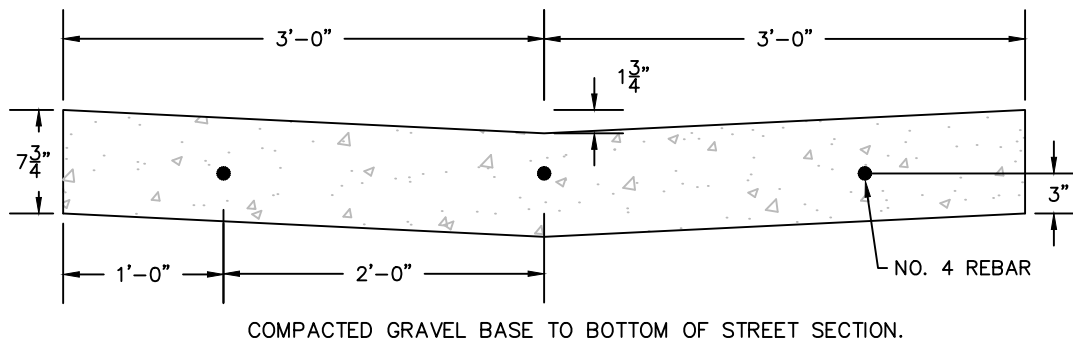
City Engineer

Date

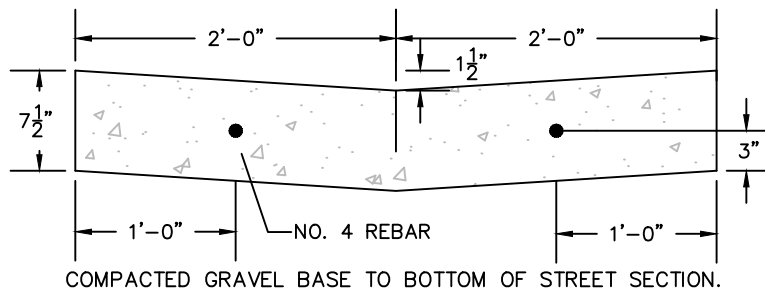
2-3



**TYPICAL 8' CROSS-SECTION**



**TYPICAL 6' CROSS-SECTION**



**TYPICAL 4' CROSS-SECTION**

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**VALLEY GUTTER**



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

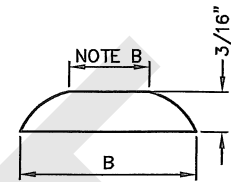
Date

**2-4**

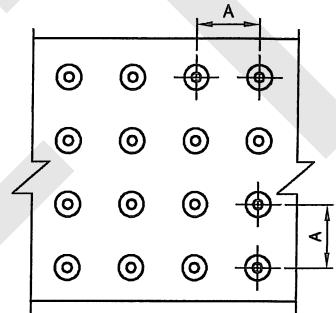


# NOTES:

- (A) DETECTABLE WARNINGS SHALL BE 24" IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP, LANDING OR BLEND TRANSITION.
- (B) DETECTABLE WARNINGS SHALL HAVE A DIAMETER OF 50% TO 65% OF THE BASE DIAMETER OF DOME.
- (C) DETECTABLE WARNING DOMES SHALL BE PRE-MANUFACTURED UNITS INTEGRALLY CAST INTO CONCRETE RAMP TO ACHIEVE THE TRUNCATED DOME DIMENSIONS AND SPACING SHOWN. INSTALLATION TO BE PER MANUFACTURER'S SPECIFICATIONS. SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. METHODS OF CONSTRUCTION AND COLORATION MUST BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.

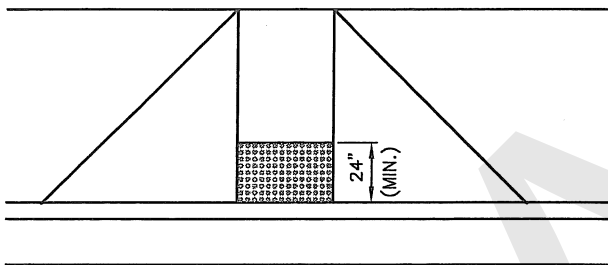


DOME SECTION

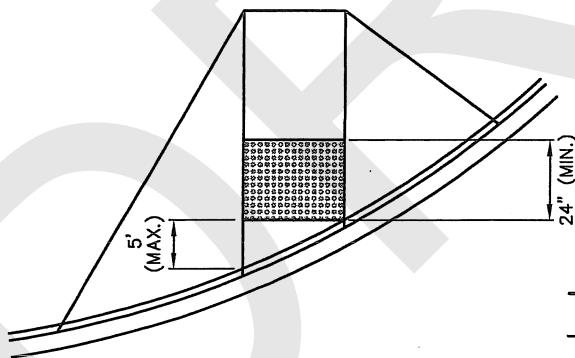


DOME SPACING

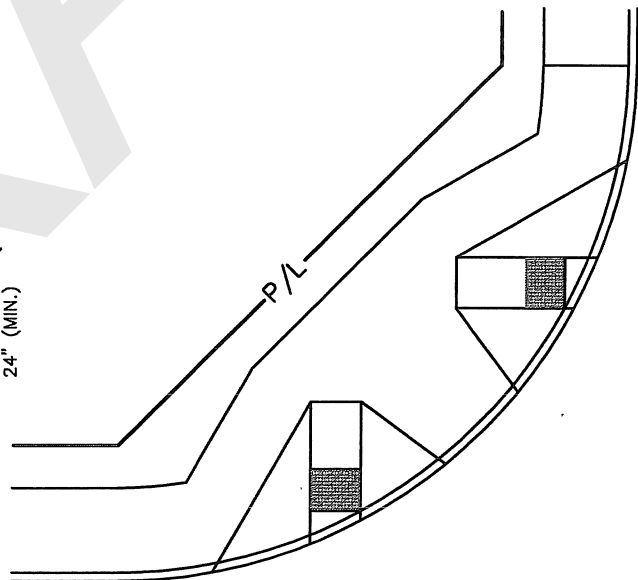
|   | MIN.   | MAX.    |
|---|--------|---------|
| A | 1 5/8" | 2 3/8"  |
| B | 7/8"   | 1 7/16" |



PERPENDICULAR RAMP



SKewed RAMP



2025

IDAHO STANDARDS  
FOR PUBLIC WORKS  
CONSTRUCTION

DETECTABLE WARNING FOR  
PEDESTRIAN ACCESS

STANDARD DRAWING  
NO. SD-712

## GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER

1. SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
2. GRADE, ALIGNMENT AND CURB TYPE SHALL BE AS APPROVED BY THE CITY ENGINEER.
3. ALIGNMENT AND GRADE STAKED TO LIP OF GUTTER (LIP) SHALL BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER.
4. THE TOLERANCE FOR FINISHED CURB AND GUTTER -MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
5. BASE MATERIAL SHALL BE 4" OF ISPWC TYPE I CRUSHED AGGRAGATE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" TO 8" MAXIMUM LIFTS. IN AREAS OF SMALL PROJECTS, LIMITED HEAVY TRUCK TRAFFIC OR WHERE COMPACTION EQUIPMENT HAS LIMITED ACCESS A REDUCED % COMPACTION MAY BE ALLOWED WITH WRITTEN APPROVAL FROM PUBLIC WORK DIRECTOR.
6. CONCRETE SHALL BE 3,000 PSI MINIMUM AT 28 DAYS, MAXIMUM WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
7. CONTROL JOINTS AT 10 FOOT INTERVALS AND AT CURB RADII, 3/4" TO 1" DEEP. CONSTRUCTION JOINTS LOCATIONS AS DIRECTED BY CITY ENGINEER. DIFFERENTIAL ELEVATION BETWEEN ADJACENT SECTIONS SHALL NOT EXCEED 1/4".
8. THE CONTRACTOR SHALL MARK STUB OUTS AND VALUES IN THE UNCURED CONCRETE.
9. THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT FOR INSPECTION AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE FOR A FINAL INSPECTION. FAILURE TO NOTIFY THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND GUTTER.
10. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PARALLEL WITH THE LENGTH OF THE CURB.
11. APPLY APPROVED CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
12. ROLLED CURB AND GUTTER SHALL NOT BE USED:
  - A. ON STREETS IN COMMERCIAL AND INDUSTRIAL ZONED AREAS.
  - B. ON STREETS WITH LONGITUDINAL (LENGTHWISE) GRADES IN EXCESS OF 6%.
  - C. ON ANY ARTERIAL OR COLLECTOR
  - D. WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
13. WASHED ROUND ROCK AS REFERRED TO IN THESE STANDARDS SHALL MEAN A NATURAL, ROUNDED STONE WITH UNFRACTURED FACES; SIZED AS SPECIFIED BY THE ENGINEER; AND WASHED, FREE FROM DIRT, CLAY, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER



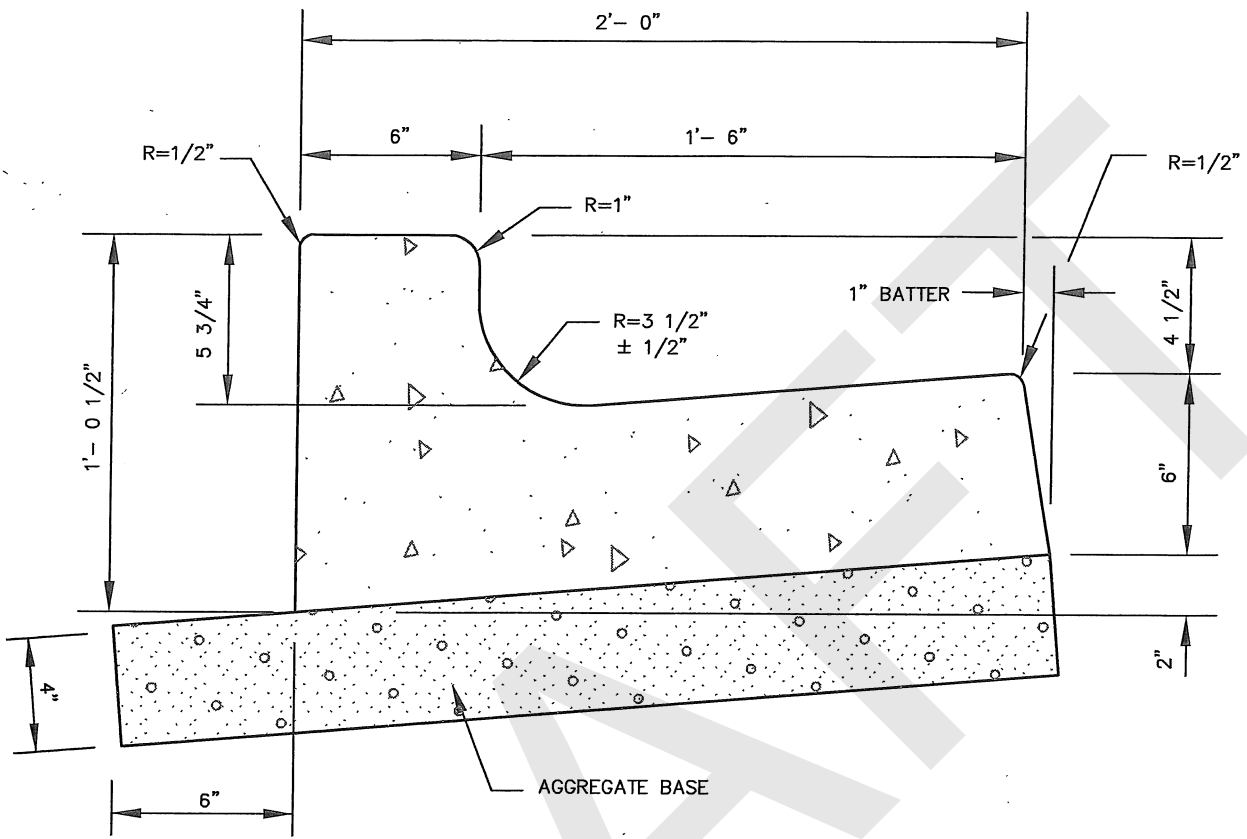
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

2-6



## NOTES:

- (A) GRADE AND ALIGNMENT TO BE ESTABLISHED OR APPROVED BY THE ENGINEER AND THE PUBLIC AGENCY HAVING JURISDICTION.
- (B) BASE: 4-INCH COMPACTED DEPTH OF 3/4-INCH MINUS CRUSHED AGGREGATE BASE MATERIAL, PLACE AS SPECIFIED AND PAID UNDER SECTION-802 ISPMC; COMPACTED TO EXCEED 95% OF STANDARD PROCTOR.
- (C) 1/2-INCH PREFORMED EXPANSION JOINT MATERIAL (AASHTO M 213) AT TERMINAL POINTS OF RADII.
- (D) CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS AT 10- FEET MAXIMUM SPACING (OR CONSISTENT WITH 2X SIDEWALK WIDTH FOR SCORE SPACING).
- (E) MATERIALS AND CONSTRUCTION IN COMPLIANCE WITH ISPMC SPECIFICATIONS.
- (F) BACKFILL AS PER SECTION-706.
- (G) SECURE RIGHT-OF-WAY PERMIT BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
- (H) STANDARD CURB TO BE USED ON:
  - 1. COLLECTOR AND ARTERIAL STREETS, UNLESS OTHERWISE INDICATED.
  - 2. ALL RADII PLUS 5- FEET EACH END WITH 2- FEET TRANSITION TO ROLL CURB.
  - 3. TO MATCH EXISTING CURBS.
  - 4. SEE SD-709 FOR CURB CONSTRUCTION WHEN SIDEWALK IS INCLUDED.

2025

IDAHO STANDARDS  
FOR PUBLIC WORKS  
CONSTRUCTION

## 6" VERTICAL CURB AND GUTTER

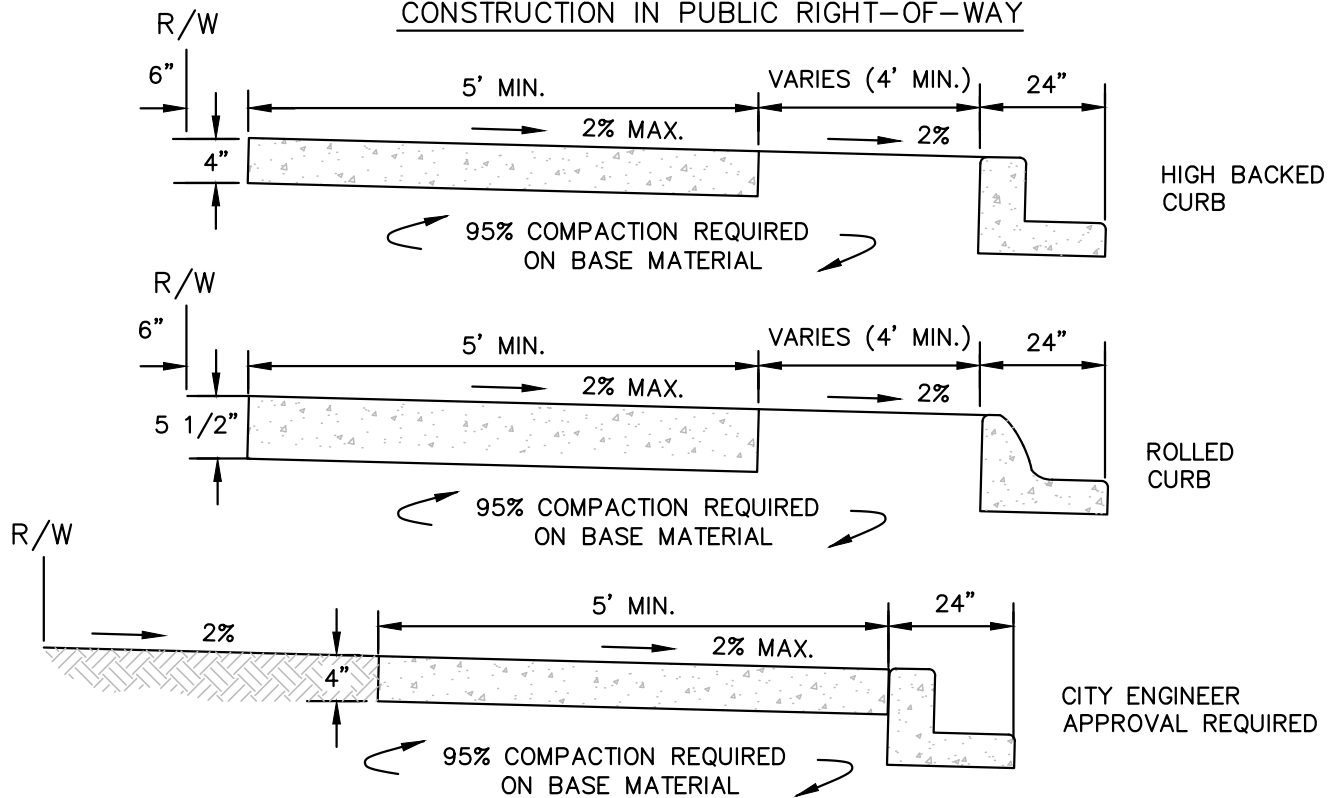
STANDARD DRAWING  
NO. SD-701



- 2025

STANDARD DRAWING  
NO. SD-704

**SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING  
CONSTRUCTION IN PUBLIC RIGHT-OF-WAY**



**GENERAL NOTES FOR ALL SIDEWALK:**

1. LINE AND GRADE STAKED TOP, BACK OF SIDEWALK.
2. GRADE AND ALIGNMENT TO BE APPROVED BY THE CITY ENGINEER.
3. THE TOLERANCE FOR FINISHED SIDEWALK –  
MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET  
MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH  
NO PONDING IS ALLOWED ON SIDEWALKS, STEPS OR PEDESTRIAN RAMPS.
4. BASE MATERIAL SHALL BE 4" OF ISPMC TYPE I CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILLS OR BACKFILL AREAS SHALL BE PLACED IN 8" MAX. LIFTS.
5. CONTRACTION/DUMMY JOINTS SHALL BE PLACED AT 5' INTERVALS, 3/4" TO 1" DEEP; INSTALL A PREFORMED EXPANSION JOINT FILLER TO THE FULL DEPTH & WIDTH EVERY 100 FEET.
6. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, MAX. WATER/CEMENT RATIO SHALL BE RATIO SHALL BE 0.5 (LB.LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
7. THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPT. FOR INSPECTION OF BASE MATERIAL AFTER FORMS ARE SET AND THE PUBLIC WORKS DEPT. WILL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE, FOR FINAL INSPECTION. FAILURE TO NOTIFY THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION
8. CONCRETE SURFACE SHALL HAVE LIGHT BROOM FINISH PERPENDICULAR TO LENGTH OF S/W.
9. APPLY UNIFORM COAT OF APPROVED CURING COMPOUND TO EXPOSED CONCRETE AFTER FINISHING.
10. CONCRETE SURFACE SHALL BE FREE OF SURFACE BLEMISHES OR VOIDS GREATER THAN 1/4". JOINTS AND EDGES SHALL BE CLEAN AND FREE OF EXCESS SPALLING OR VOIDS.
11. A 6" STRIP TO BE LOCATED BETWEEN RIGHT-OF-WAY LINE AND SIDEWALK FOR PLACEMENT OF PROPERTY PINS WHEN PLANTING STRIP OR RETENTION SWALES ARE PLACED BEHIND CURB AND GUTTER.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**CONCRETE SIDEWALK**



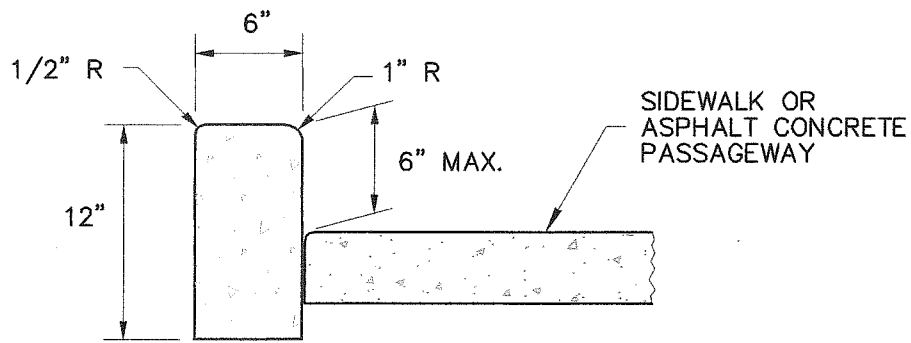
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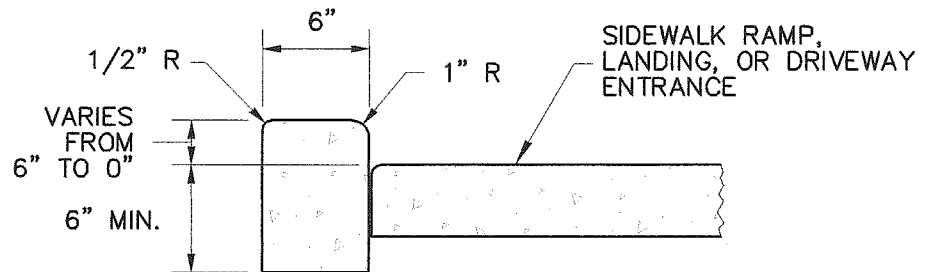
City Engineer

Date

**2-8**

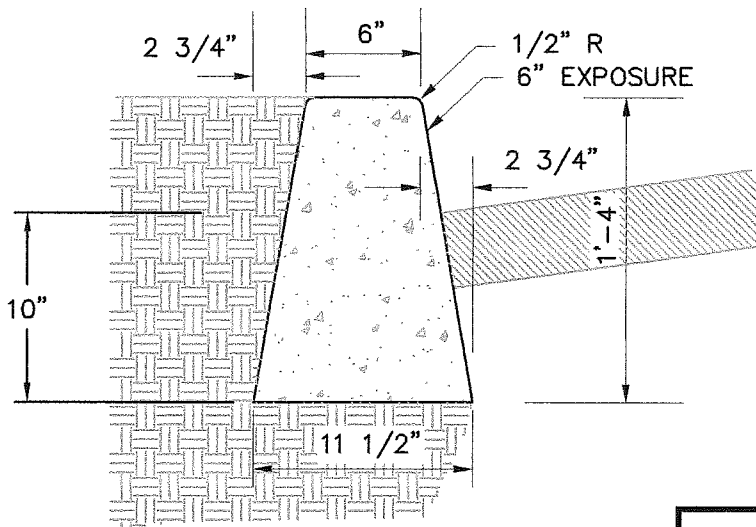


**PEDESTRIAN CURB**



**PEDESTRIAN CURB**

AT SIDEWALK RAMPS & LANDINGS,  
AND DRIVEWAY ENTRANCES



**TYPE 'A' CURB**

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

**PEDESTRIAN CURB  
AND TYPE 'A' CURB**

APPROVED FOR PUBLICATION

*Ch. D. S.* 2-5-09  
City Engineer Date

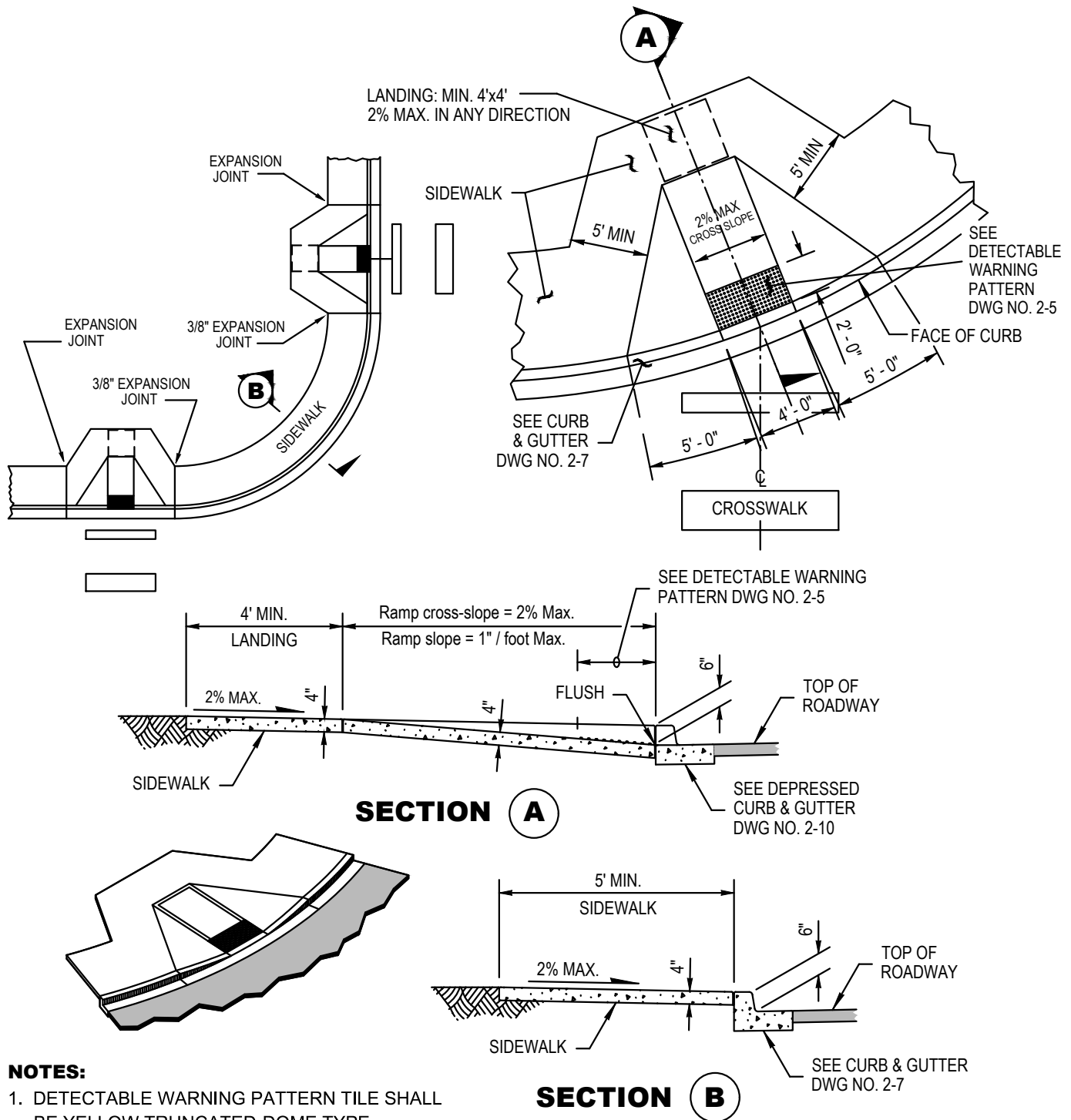
DWG. NO.

2-9

... 12\_Concrete\Pedestrian\_Type 'A' Crub.dwg







**NOTES:**

1. DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
2. RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
3. A 4' x 4' MIN. CLEAR SPACE WITHIN THE CROSSWALK AREA AND 4' x 4' LANDING AREA AT TOP OF RAMP W/ 2% MAX SLOPE IN ALL DIRECTIONS.
4. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS WITHIN/ OR FRONT OF RAMP OR LANDING IS PROHIBITED.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**DOUBLE SIDEWALK  
RAMPS - TYPE I**



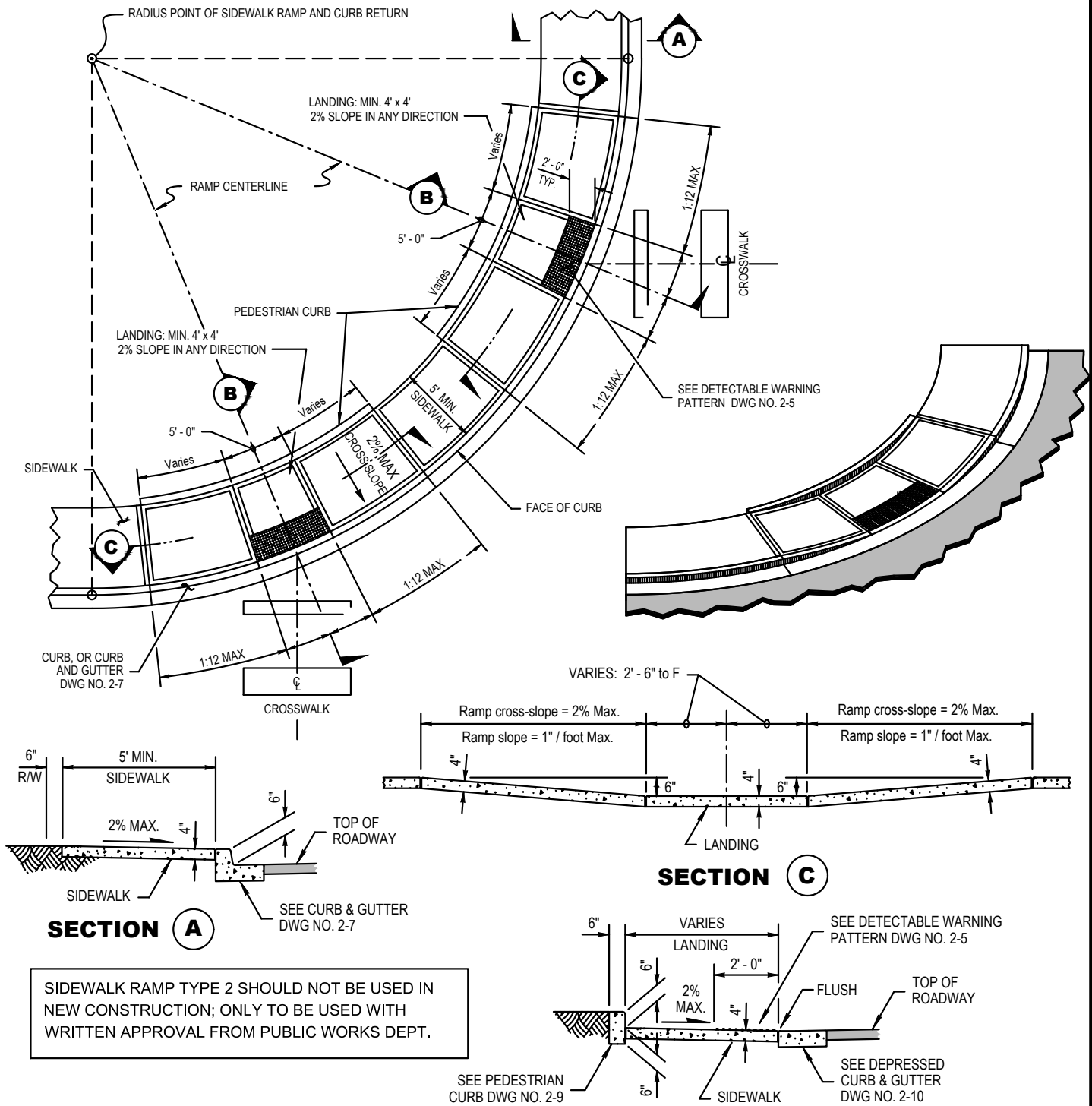
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City Engineer

Date

**2-11**



## SECTION A

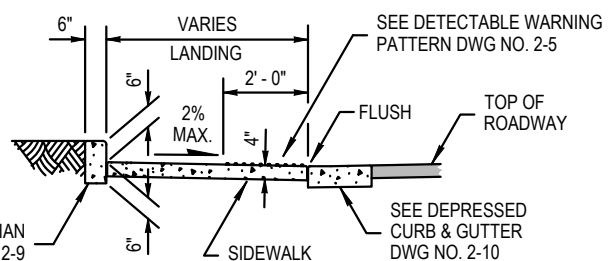
SIDEWALK RAMP TYPE 2 SHOULD NOT BE USED IN NEW CONSTRUCTION; ONLY TO BE USED WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.

### NOTES:

1. DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
2. RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
3. A 4' x 4' LANDING AT THE BOTTOM OF THE RAMP WITH 2% MAX SLOPE IN ALL DIRECTIONS.
4. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN/ OR IN FRONT OF RAMP OR LANDING IS PROHIBITED.

...\\2-Concrete\\Ramp Type 2.dwg

## SECTION C



## SECTION B

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### SINGLE OR DOUBLE SIDEWALK RAMP TYPE 2



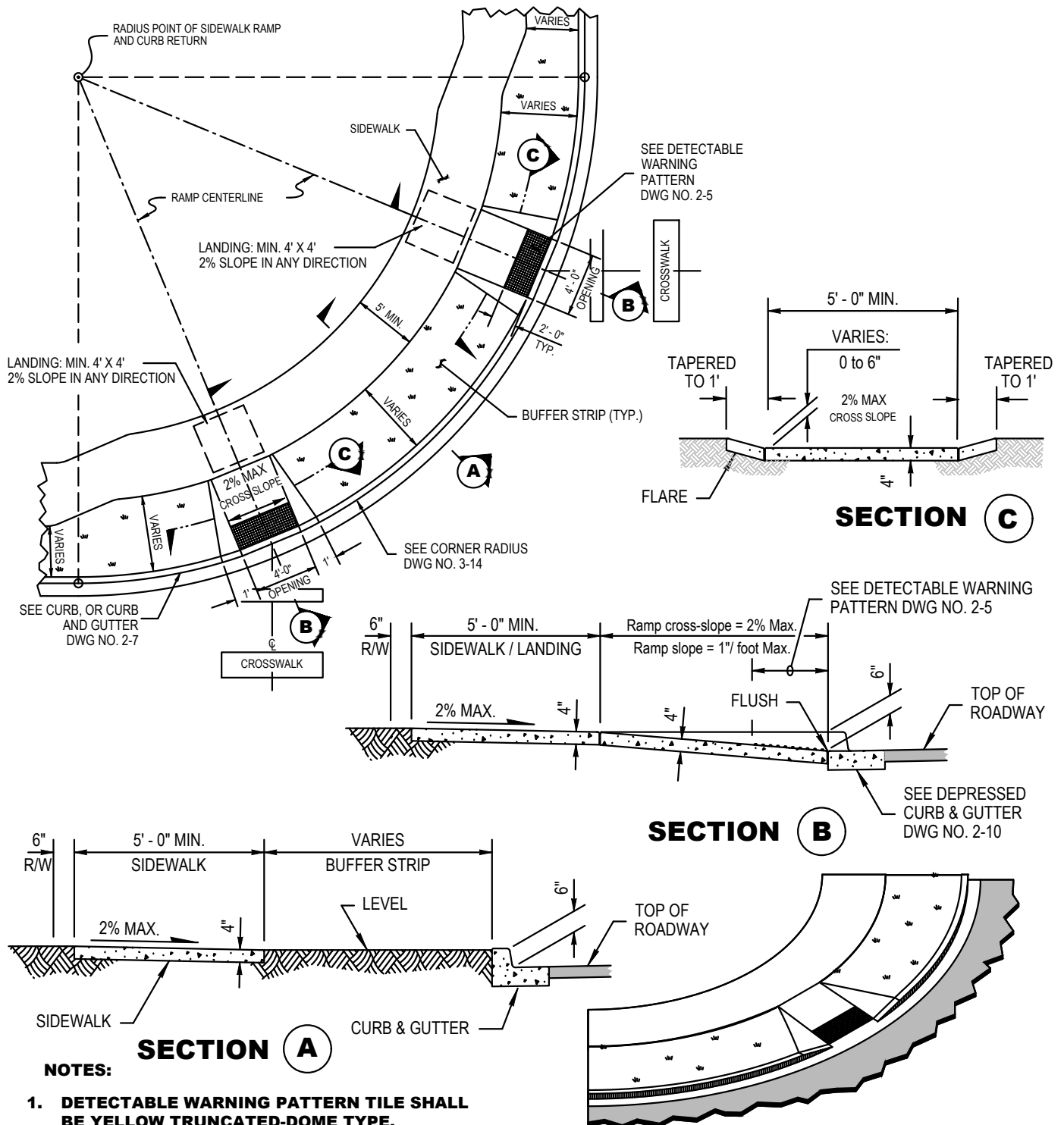
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DWG. NO.

City Engineer

Date

**2-12**



## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### SIDEWALK RAMP TYPE 3



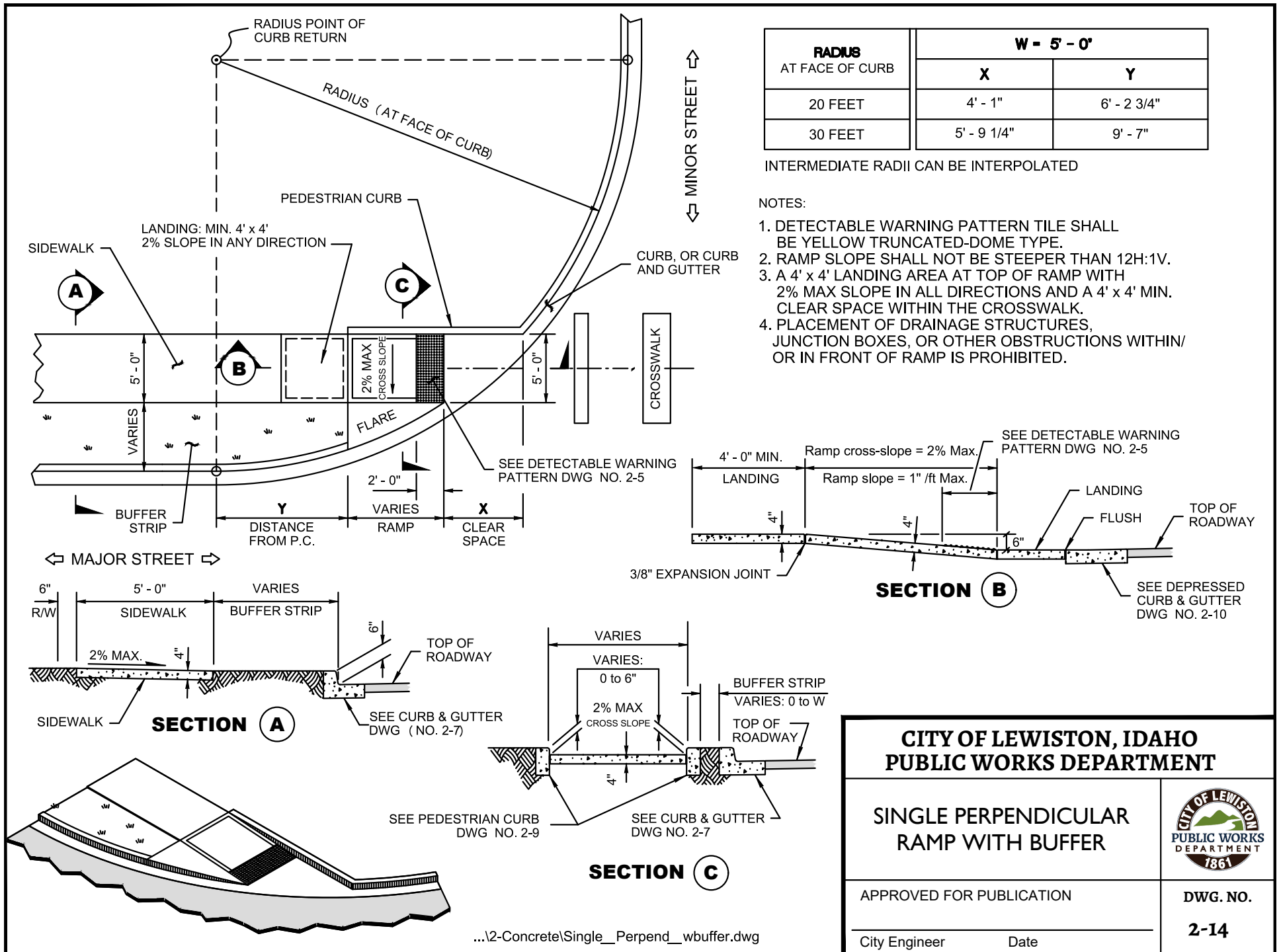
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**2-13**



# **CITY OF LEWISTON, IDAHO** **PUBLIC WORKS DEPARTMENT**

## **SINGLE PERPENDICULAR RAMP WITH BUFFER**

APPROVED FOR PUBLICATION

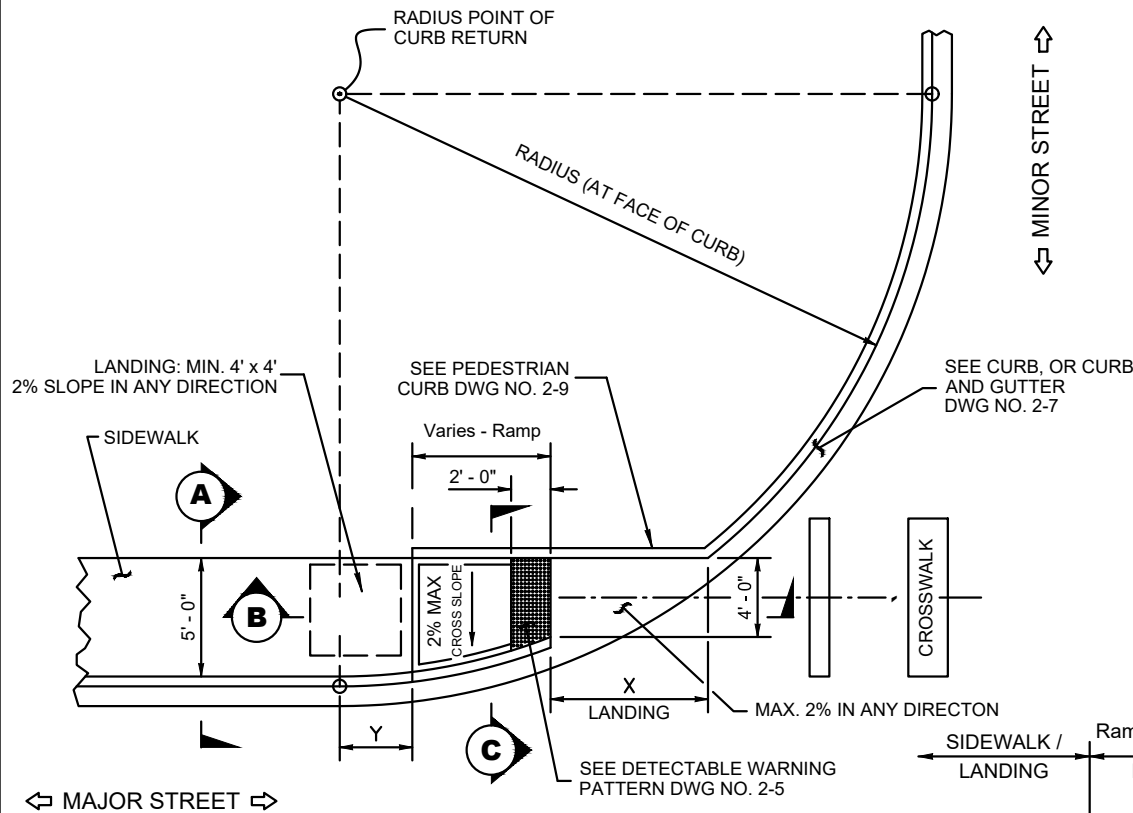
City Engineer

Date



DWG. NO.

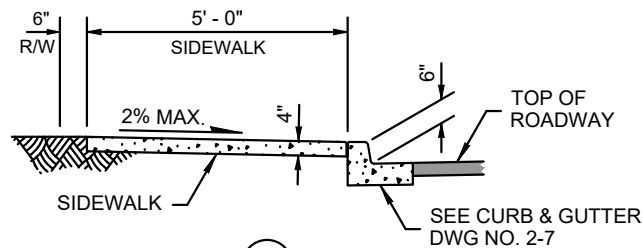
**2-14**



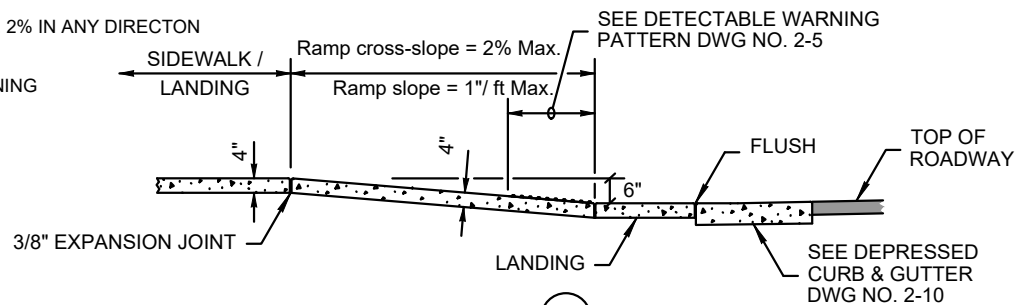
| RADIUS<br>AT FACE OF CURB | X<br>LANDING | Y<br>DISTANCE<br>FROM P.C. |
|---------------------------|--------------|----------------------------|
| 20 FEET                   | 6' - 2 1/2"  | 1' - 7"                    |
| 30 FEET                   | 8' - 0 1/4"  | 3' - 8"                    |

NOTES:

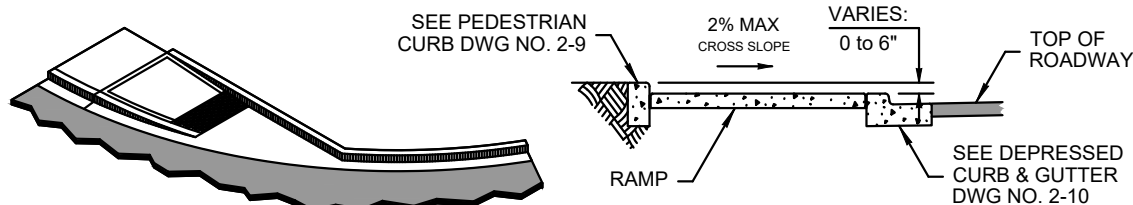
1. DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
2. RAMP SLOPE SHALL NOT BE STEEPER THAN 12H:1V.
3. A 4' x 4' LANDING AREA AT TOP OF RAMP WITH 2% MAX SLOPE IN ALL DIRECTIONS AND A 4' x 4' MIN. CLEAR SPACE WITHIN THE CROSSWALK.
4. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN/ OR IN FRONT OF RAMP IS PROHIBITED.



**SECTION A**



**SECTION B**



**SECTION C**

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**SINGLE PERPENDICULAR  
RAMP WITHOUT BUFFER**



APPROVED FOR PUBLICATION

DWG. NO.

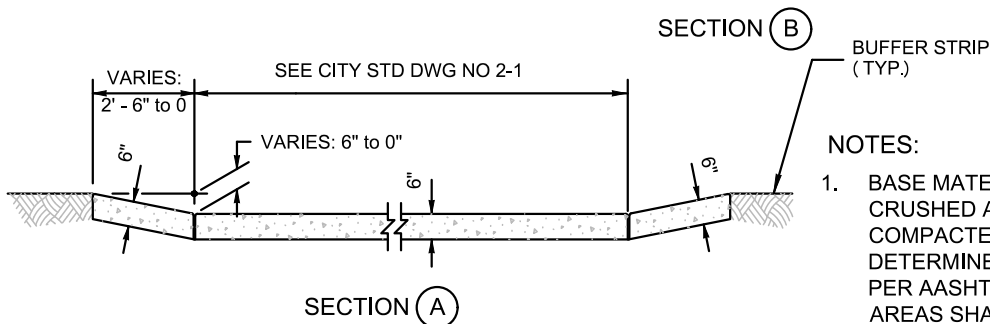
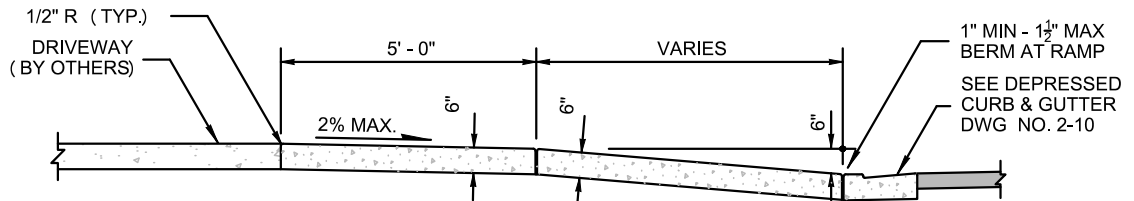
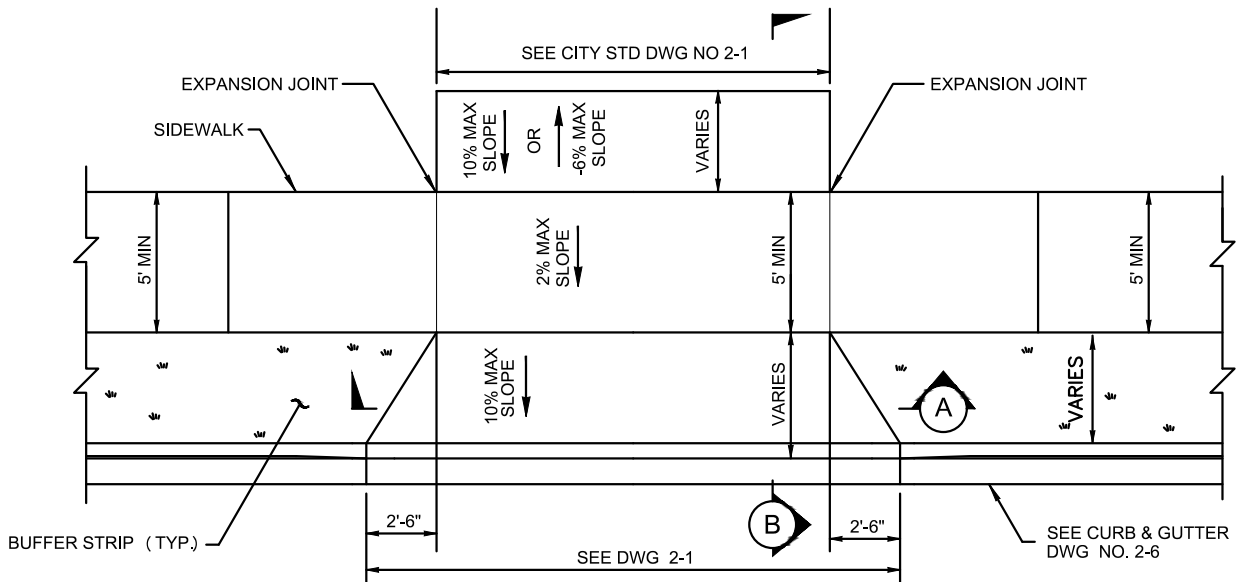
City Engineer

Date

**2-15**

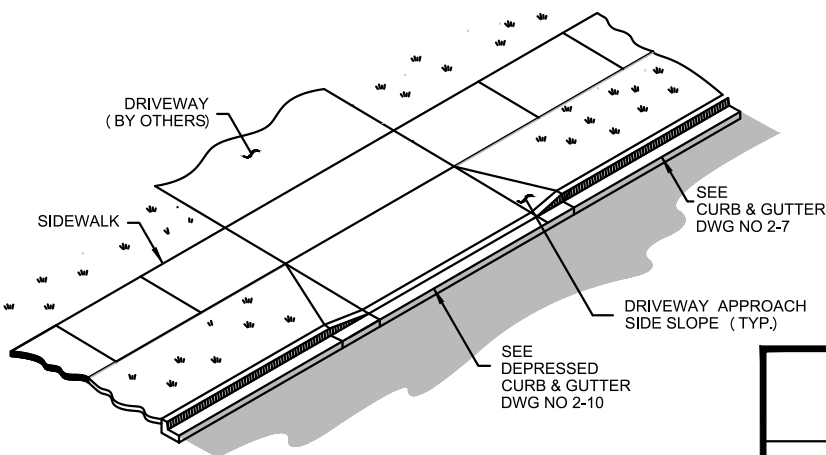
...\\2-Concrete\\Single\_\_Perpend\_\_nobuffer.dwg





#### NOTES:

1. BASE MATERIAL SHALL BE 4" OF ISPWC TYPE I CRUSHED AGGREGATE BASE MATERIAL COMPACTED 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" LIFTS.
2. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES IS PROHIBITED.
3. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.
4. ALL ALLEYS, COMMERCIAL DRIVEWAYS, AND PRIVATE ROADWAYS ACCESSING MORE THAN THREE DWELLING UNITS WILL BE REQUIRED TO PLACE 3 - # 4 REBAR WITHIN CURB & GUTTER ( CENTER AND 9" OFF CENTER) OF THE DRIVEWAY APPROACH.



### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### DRIVEWAY APPROACH SPLIT APRON SIDEWALK



APPROVED FOR PUBLICATION

DWG. NO.

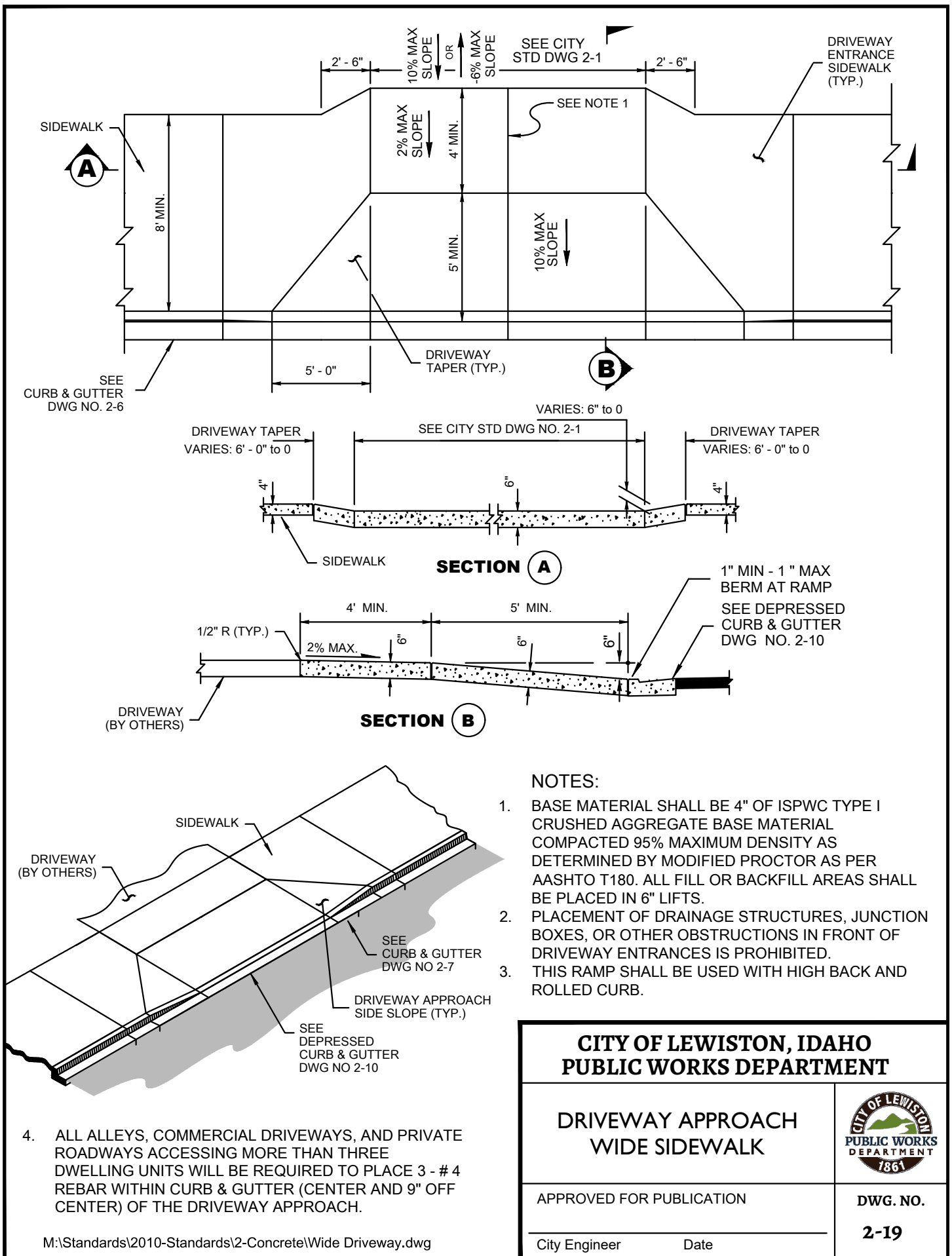
City Engineer

Date

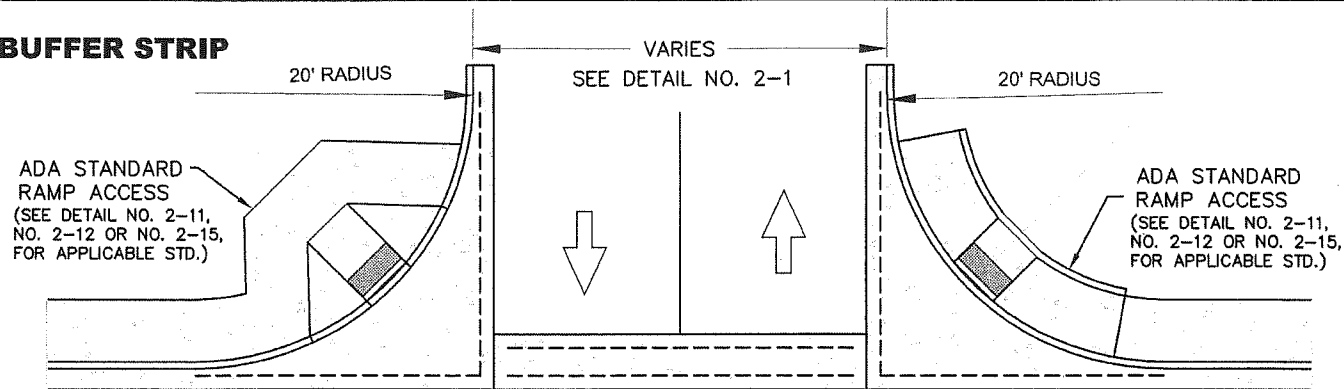
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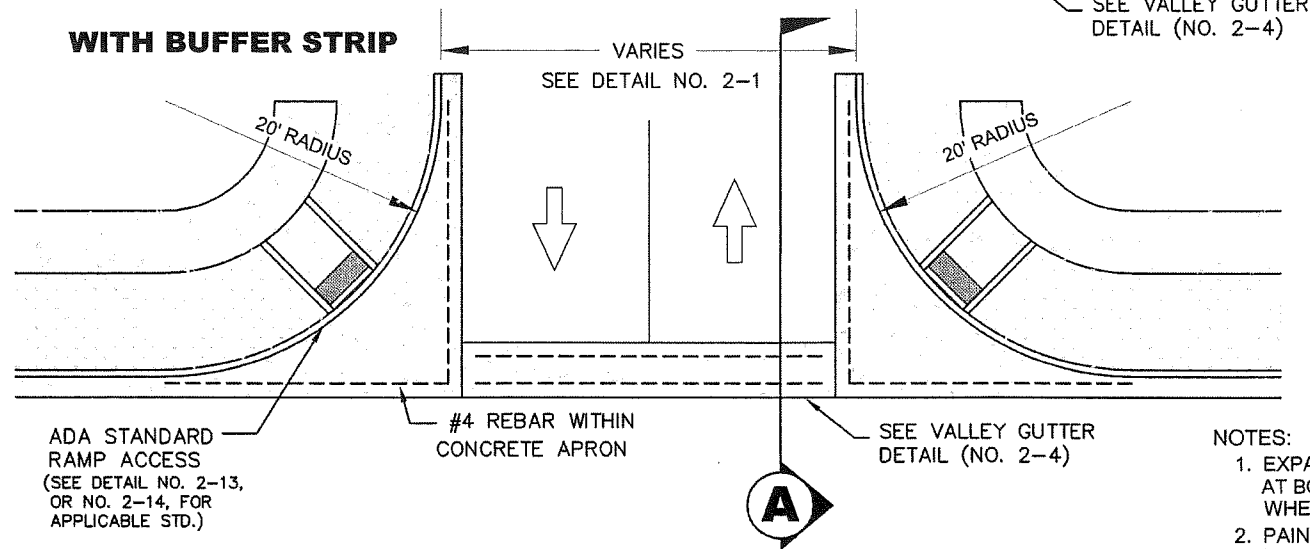




## WITHOUT BUFFER STRIP

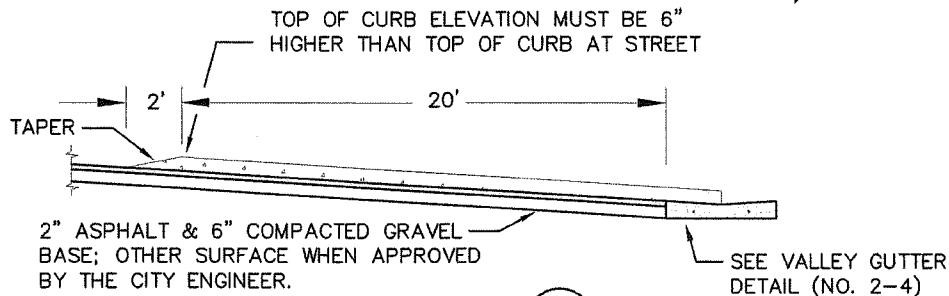


## WITH BUFFER STRIP



### NOTES:

1. EXPANSION MATERIAL REQUIRED AT BOTH ENDS OF APPROACH WHEN CURB AND GUTTER CONTINUES.
2. PAINTED DIRECTIONAL ARROWS AS REQUIRED.



## SECTION A

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

## TYPICAL TWO-WAY ARTERIAL STREET DRIVEWAY APPROACH

APPROVED FOR PUBLICATION

*Christy R. [Signature]* 3-9-09  
City Engineer Date

DWG. NO.

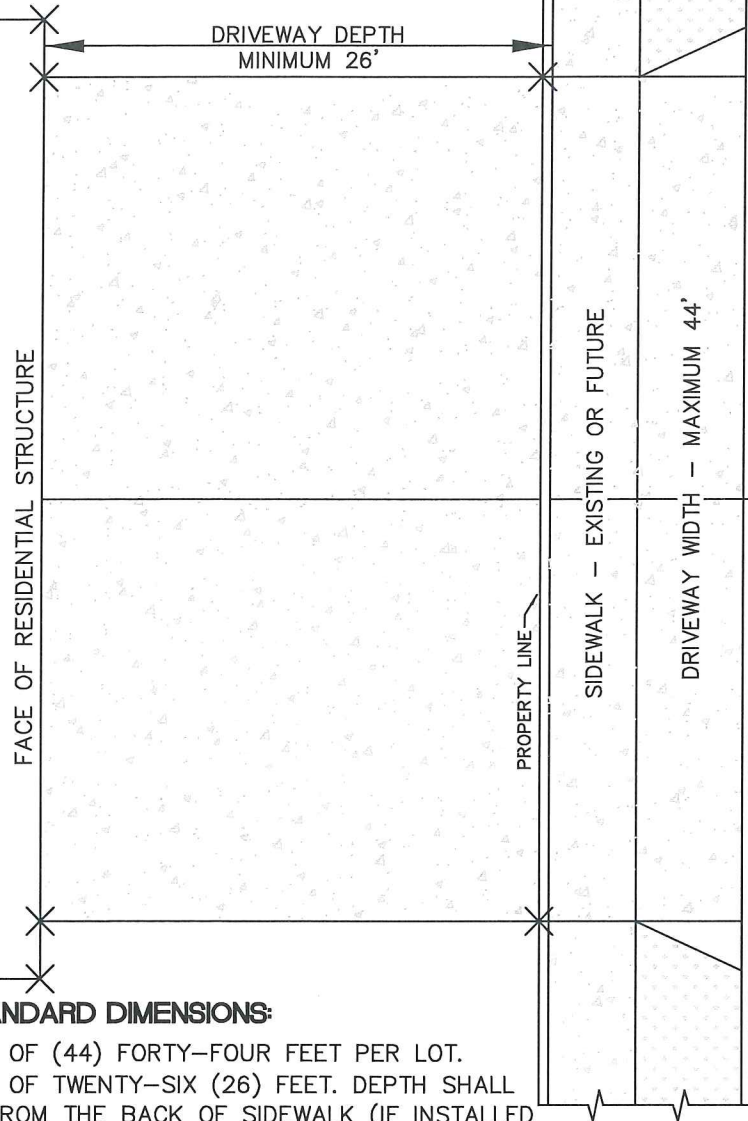
2-20

### LARGE LOT DEVELOPMENT FOR R1 ZONE

1. LOCATION AND NUMBER OF ALL DRIVEWAY ACCESS(ES) SHALL BE APPROVED BY THE CITY ENGINEER.
2. SEE CITY STANDARD DRAWING NO. 2-1 FOR OTHER DRIVEWAY LOCATION REQUIREMENTS.

#### LOT FEATURES TO QUALIFY:

- ☐ MINIMUM OF 15,000 SQUARE FEET LOT SIZE
- ☐ MINIMUM OF 100 FEET OF PUBLIC RIGHT-OF-WAY FRONTAGE



#### DRIVEWAY STANDARD DIMENSIONS:

1. MAXIMUM WIDTH OF (44) FORTY-FOUR FEET PER LOT.
2. MINIMUM DEPTH OF TWENTY-SIX (26) FEET. DEPTH SHALL BE MEASURED FROM THE BACK OF SIDEWALK (IF INSTALLED OR FUTURE SIDEWALK LOCATION AS DETERMINED BY CITY STAFF) TO THE FACE OF GARAGE (STRUCTURE - E.G. SHOP)

PROPERTY LINE

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CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

### LARGE LOT DRIVEWAY REQUIREMENTS

APPROVED FOR PUBLICATION

*Luhe Antonich* 11/22/24

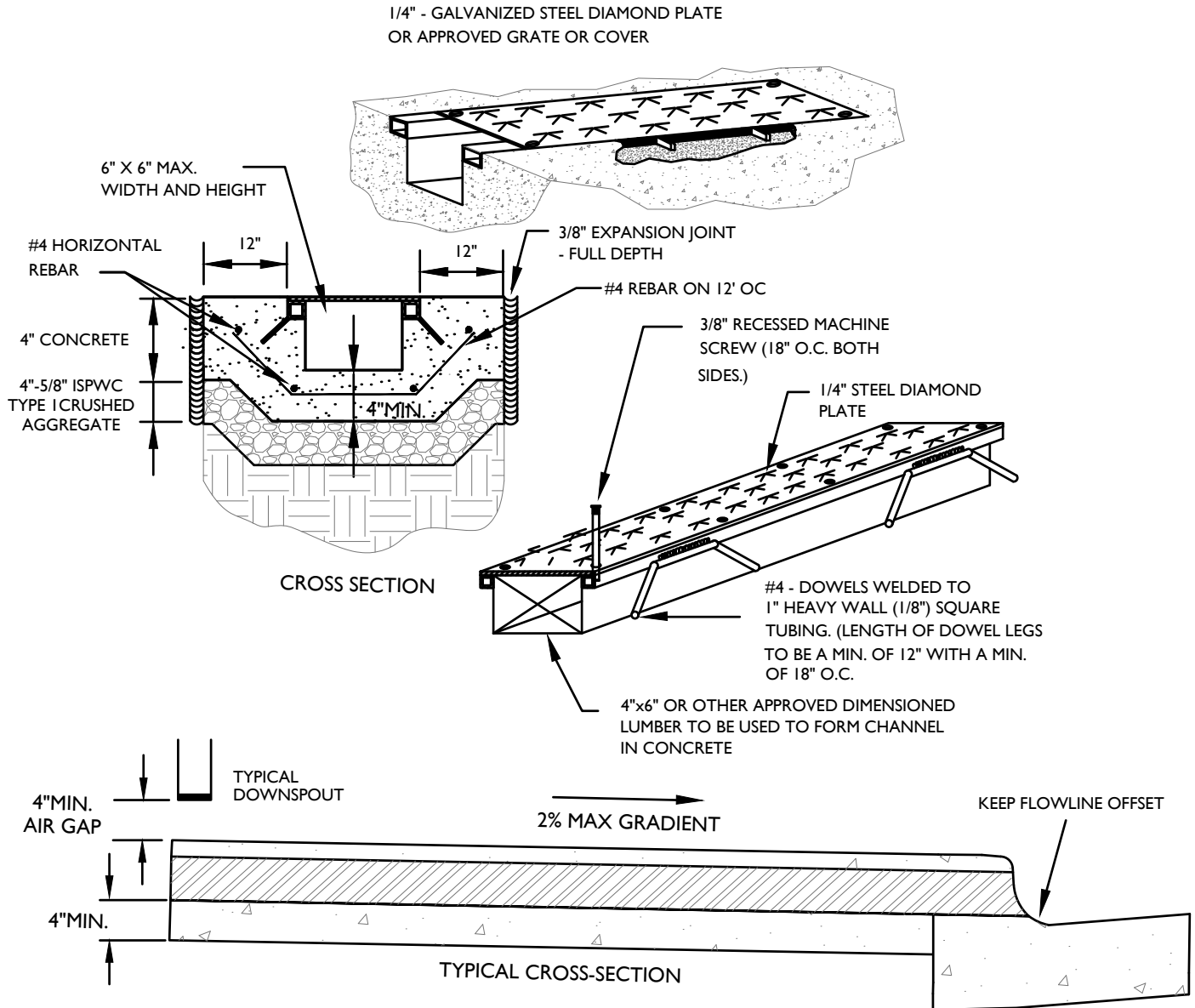
City Engineer

Date

DWG. NO.

2-21



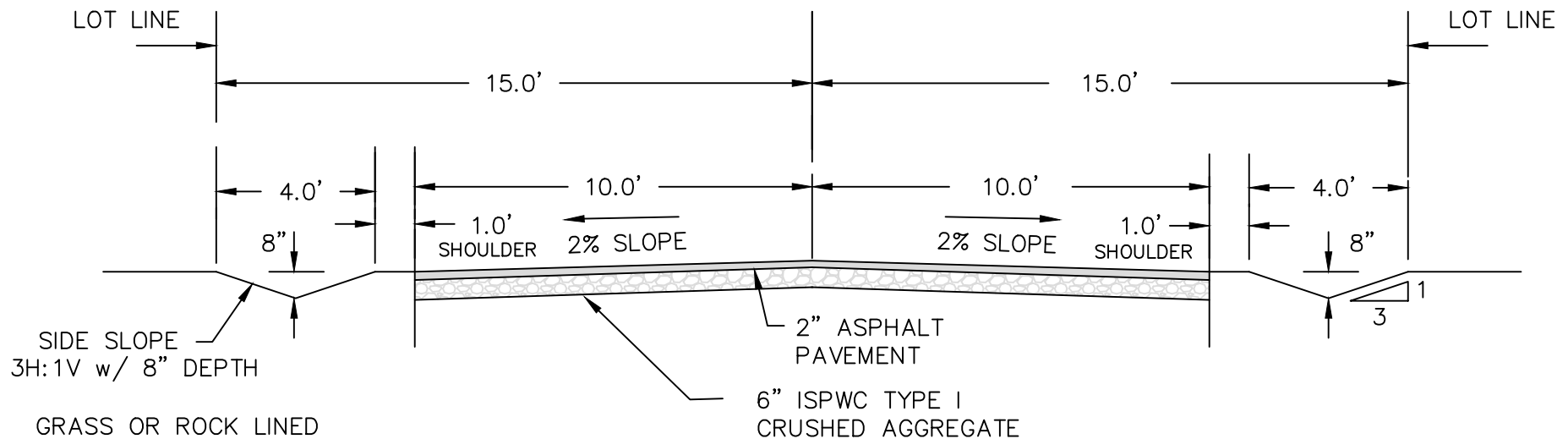


**NOTES:**

1. CONSTRUCTION JOINTS SHALL BE PLACED AS SHOWN OR AS DIRECTED BY THE CITY ENGINEER.
2. CONCRETE SHALL BE 3,000 PSI.
3. THE GRATE SHALL BE FLUSH WITH THE ADJACENT SIDEWALK.
4. NO OBSTRUCTIONS WILL BE ALLOWED IN THE SIDEWALK.
5. A MINIMUM 4" AIR GAP SHALL BE MAINTAINED BETWEEN ROOF DOWN-SPOUTS AND SIDEWALK DRAINS.
6. ANY VARIATION TO THIS STANDARD MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.

| CITY OF LEWISTON, IDAHO<br>PUBLIC WORKS DEPARTMENT |             |
|----------------------------------------------------|-------------|
| SIDEWALK DRAIN<br>DETAIL                           |             |
| APPROVED FOR PUBLICATION                           | DWG. NO.    |
| City Engineer _____ Date _____                     | <b>2-22</b> |





#### NOTES:

1. MUTUAL 30' COMMON ACCESS EASEMENT IS REQUIRED.
2. 11% GRADE MAX.
3. NO CURVES ARE ALLOWED BY CITY ORDINANCE.
4. NO CURB AND GUTTER NEEDED – OPTIONAL.
5. 10' TRAVEL LANES.
6. NO PARKING LANES.
7. NO SIDEWALK REQUIREMENT – OPTIONAL.
8. A SHARED DRIVEWAY MUST MEET THE FIRE DEPT. TURNAROUND CRITERIA.

#### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

PRIVATE SHARED DRIVEWAY 30'  
COMMON ACCESS EASEMENT TWO  
10' TRAVEL LANES



APPROVED FOR PUBLICATION

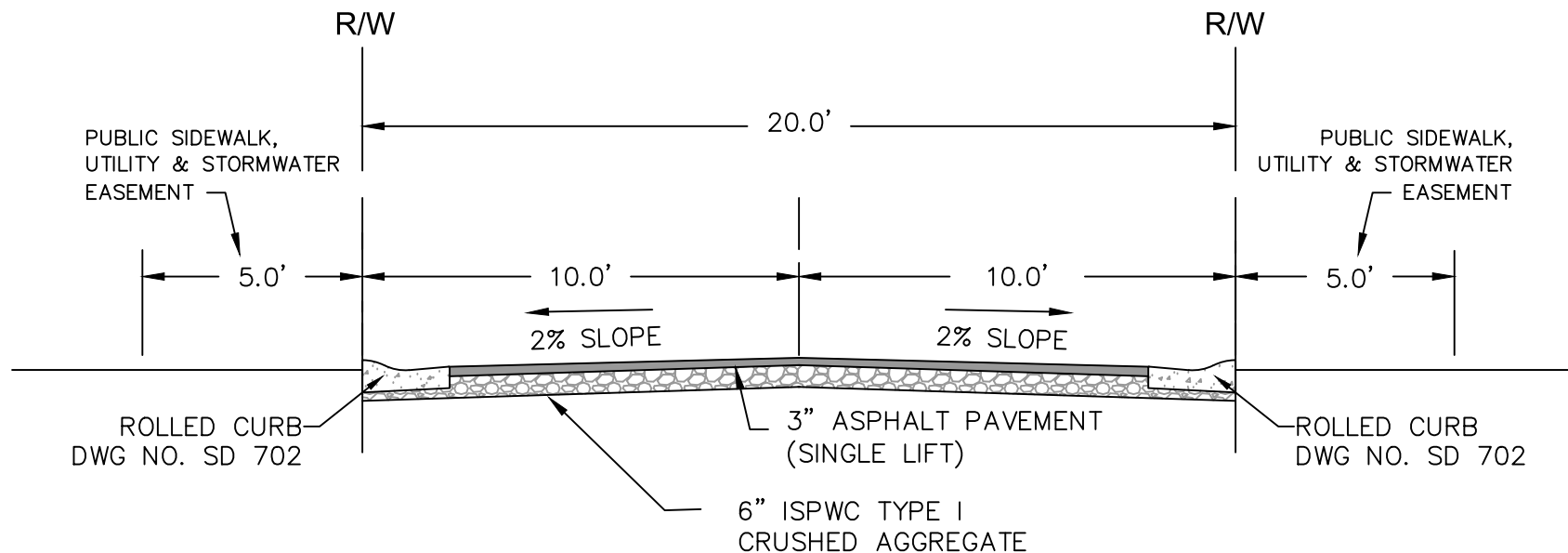
DWG. NO.

City Engineer

Date

3-1

...\\3-Streets\\private\_\_shared\_\_dwy\_\_row30.dwg



THIS CROSS-SECTION IS ONLY FOR 20' WIDE EXISTING RIGHT-OF-WAY.  
(EXAMPLES ARE ALDER AVE, CEDAR AVE, AIRWAY AVE, PARK AVE & HEMLOCK AVE)

NOTES:

1. 20' RIGHT-OF-WAY WIDTH (MIN.).
2. 25 MPH.
3. 11% GRADE MAX.
4. 200' CENTERLINE RADIUS (MIN.).
5. ROLLED CURB.
6. 10' TRAVEL LANES.
7. NO PARKING LANES.
8. SEE DRIVEWAY LOCATION & WIDTH REQUIREMENT: CITY STD DWG NO. 2-1.

...\\3-Streets\\orchardnarrow\_\_row20.dwg

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**ORCHARD RESIDENTAL  
STREET TWO 10' TRAVEL  
LANES**



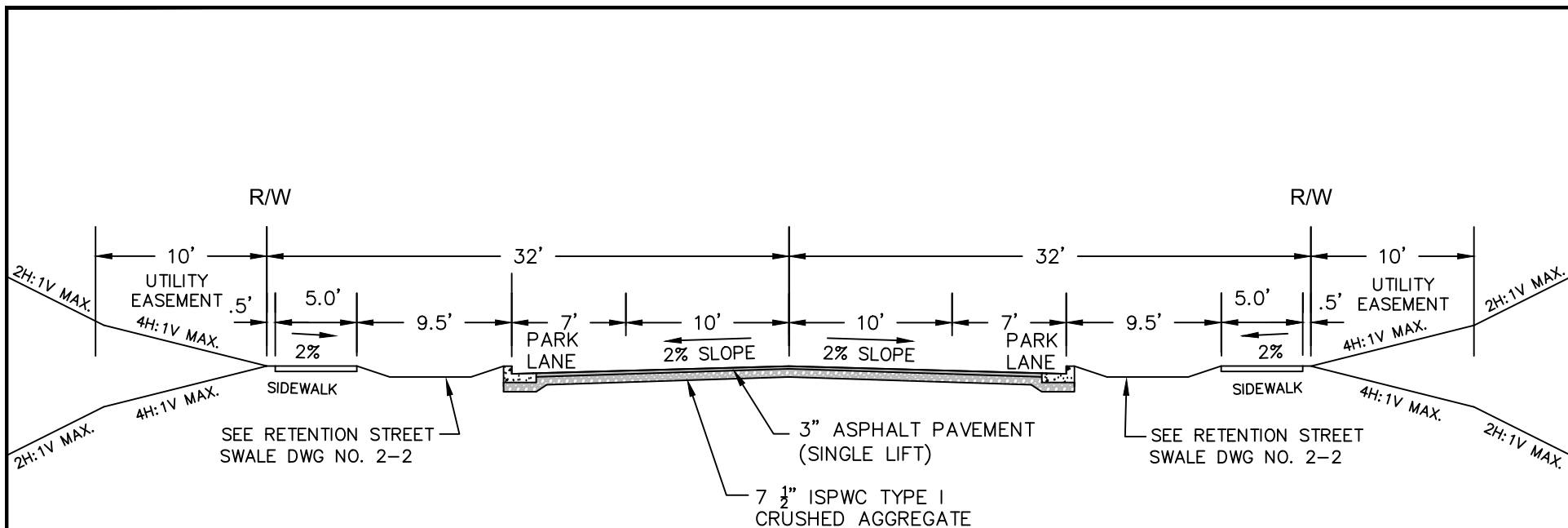
APPROVED FOR PUBLICATION

**DWG. NO.**

City Engineer

Date

**3-2**



**NOTES:**

1. 64' RIGHT OF WAY WIDTH.
2. 5% MAXIMUM GRADE.
3. 200' CENTERLINE RADIUS (MIN.) SMALLER RADIUS MAY BE ALLOWED IF CURVE IS SUPERELEVATED - REFER TO CURRENT AASHTO.
4. INSTALL HIGH BACK CURB; ROLLED CURB ONLY WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
5. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
6. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
7. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
8. THIS TYPICAL CROSS-SECTION CAN BE USED FOR CUL-DE-SACS LONGER THAN 500 FT BUT LESS THAN 1200 FT.
9. ASPHALT PAVEMENT MAY BE WATER TESTED FOR PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
10. THE CITY ENGINEER MAY REQUIRE CORING OF THE ASPHALT PAVEMENT TO VERIFY PAVEMENT THICKNESS OR DENSITY.
11. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
12. TREE AND UTILITY PLACEMENT MUST MEET CITY STD DWG NO. 1-1.
13. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**LOCAL RESIDENTIAL STREET  
TYPICAL-INFILTRATION  
DRAINAGE**



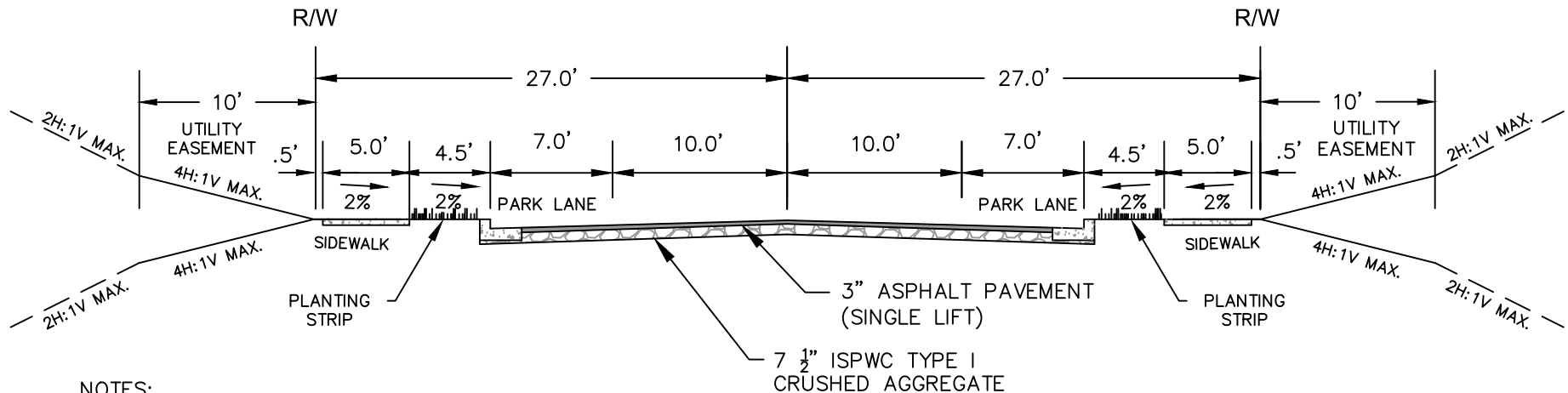
APPROVED FOR PUBLICATION

**DWG. NO.**

City Engineer \_\_\_\_\_ Date \_\_\_\_\_

**3-3**

\\3-Street\\local\_res\_64.dwg



**NOTES:**

1. 54' RIGHT OF WAY WIDTH.
2. 11% GRADE MAX.
3. 200' CENTERLINE RADIUS (MIN.) – SMALLER RADIUS MAY BE ALLOWED IF CURVE IS SUPERELEVATED (REFER TO AASHTO).
4. INSTALL HIGH BACK CURB; ROLLED CURB ONLY WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
5. THE PLANTING STRIP SHALL BE MAINTAINED BY THE ADJACENT PROPERTY OWNERS.
6. THIS X-SECTION CAN BE USED FOR CUL-DE-SACS LONGER THAN 500 FT BUT LESS THAN 1200 FT.
7. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
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14. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**TYPICAL  
LOCAL RESIDENTIAL STREET**

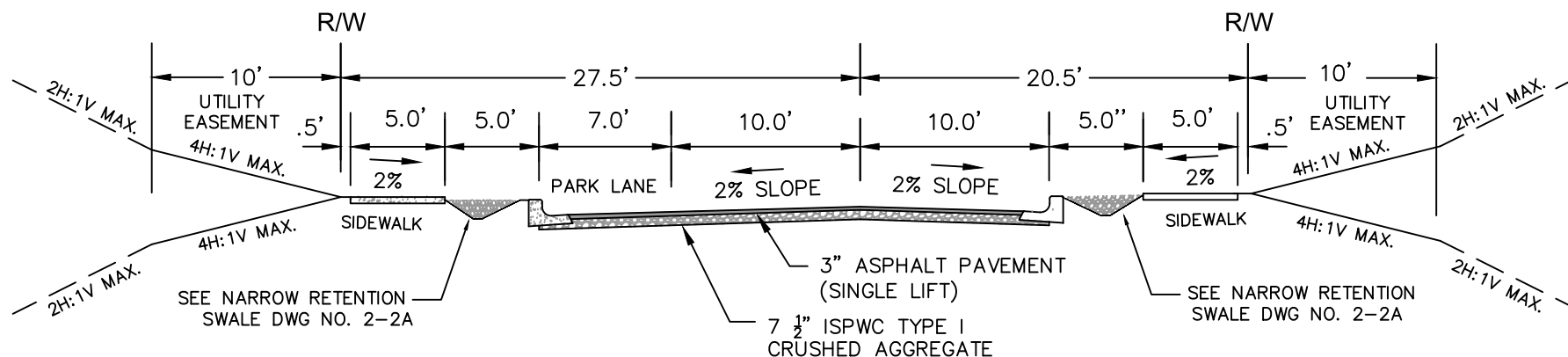


APPROVED FOR PUBLICATION

**DWG. NO.**

City Engineer \_\_\_\_\_ Date \_\_\_\_\_

**3-4**



#### NOTES:

1. 48' RIGHT-OF-WAY WIDTH.
2. 5% GRADE MAX.
3. MIN. 45' RADIUS CUL-DE-SAC.
4. HIGH BACK CURB AND GUTTER; ROLLED CURB ONLY WITH THE WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TWO - 10' TRAVEL LANES.
6. ONE - 7' PARKING LANE.
7. LOTS SMALLER THAN 1/2 ACRE WILL REQUIRE PARKING ON BOTH SIDES.
8. SEE CUL-DE-SAC: CITY STD DWG NO. 3-7.
9. ORCHARDS DISTRICT ONLY: RIGHT-OF-WAY CAN BE REDUCED TO 38' AND ALL, OR PARTIAL, SIDEWALK REQUIREMENT MAY BE REMOVED WITH APPROVAL OF THE CITY ENGINEER AND WITH PAYMENT INTO 'IN-LIEU-OF' CONSTRUCTION PROGRAM.
10. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
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14. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
15. TREE AND UTILITY PLACEMENT MUST MEET CITY STD DWG NO. 1-1.
16. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

≤500 CUL-DE-SAC ROADWAY W/  
INFILTRATION DRAINAGE



APPROVED FOR PUBLICATION

DWG. NO.

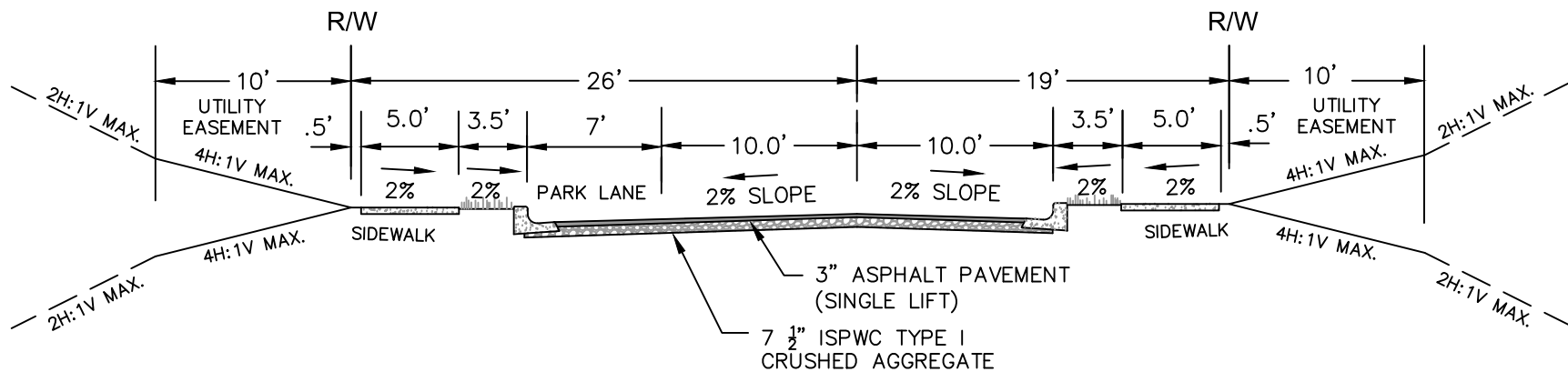
City Engineer

Date

3-5

...\\3-Streets\\cul\_de\_sac\_infiltration.dwg





NOTES:

1. 45' RIGHT-OF-WAY WIDTH.
2. 11% GRADE MAX.
3. MIN. 45' RADIUS CUL-DE-SAC.
4. HIGH BACK CURB AND GUTTER; ROLLED CURB ONLY WITH THE WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TWO - 10' TRAVEL LANES.
6. ONE - 7' PARKING LANE.
7. LOTS SMALLER THAN 1/2 ACRE WILL REQUIRE PARKING ON BOTH SIDES.
8. SEE CUL-DE-SAC: CITY STD DWG NO. 3-7.
9. ORCHARDS DISTRICT ONLY: RIGHT-OF-WAY CAN BE REDUCED TO 38' AND ALL OR PARTIAL SIDEWALK REQUIREMENT MAY BE REMOVED WITH APPROVAL OF THE CITY ENGINEER AND WITH PAYMENT INTO 'IN-LIEU-OF' CONSTRUCTION PROGRAM.
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16. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

≤500' CUL-DE-SAC ROADWAY



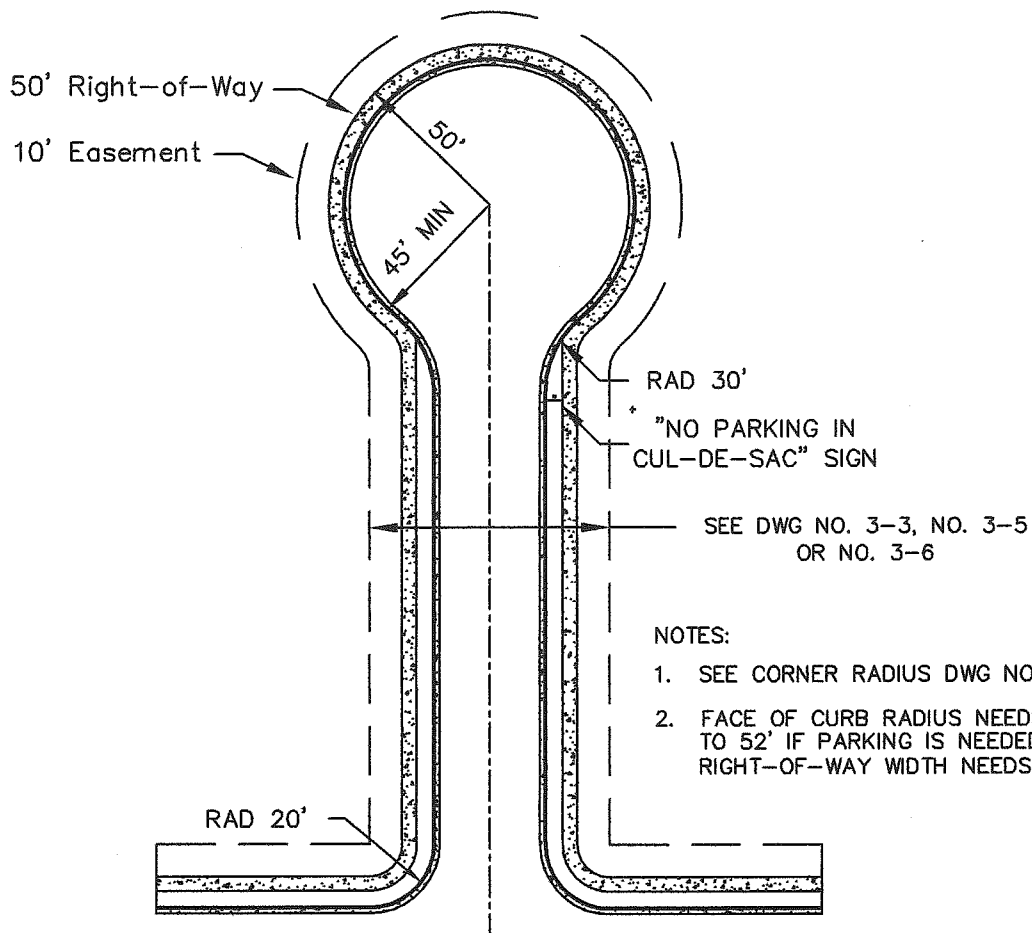
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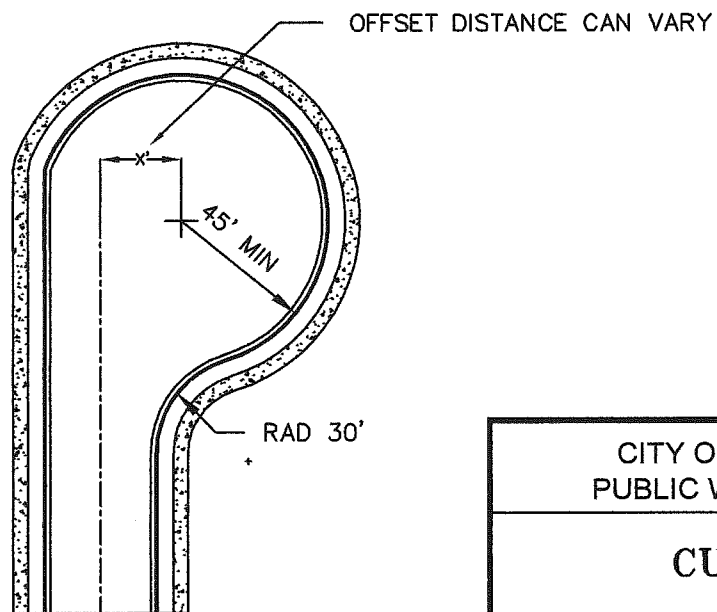
City Engineer

Date

**3-6**



STANDARD LAYOUT



OFFSET BULB OPTION

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CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

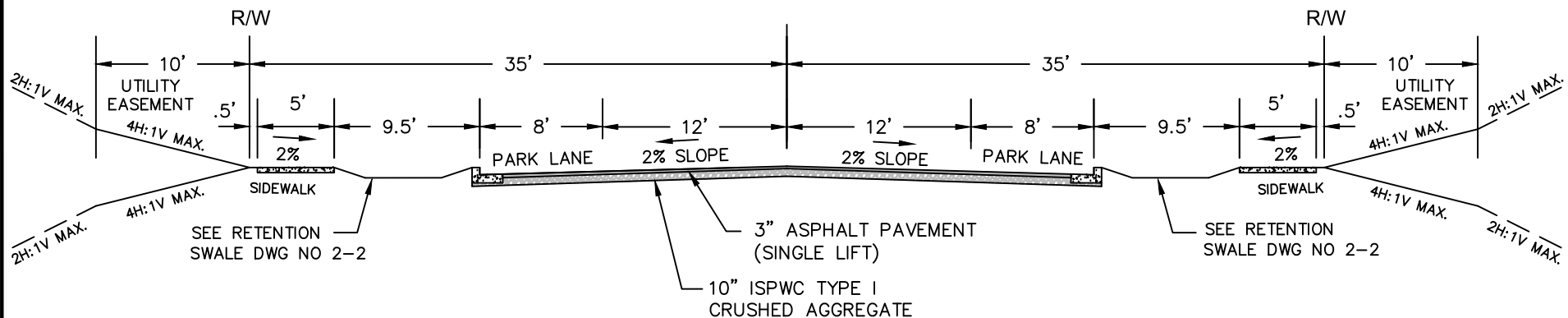
**CUL-DE-SAC  
DESIGN**

APPROVED FOR PUBLICATION

*Ch. D.* 2-5-09  
City Engineer Date

DWG. NO.

**3-7**



#### NOTES:

1. 70' RIGHT OF WAY WIDTH.
2. 5% GRADE MAX.
3. 200' CENTERLINE RADIUS (MIN.) – SMALLER RADIUS MAY BE ALLOWED IF CURVE IS SUPERELEVATED – REFER TO AASHTO MANUAL.
4. HIGH BACK CURB AND GUTTER ONLY.
5. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
6. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
7. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
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### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### RESIDENTIAL COLLECTOR W/ INFILTRATION DRAINAGE



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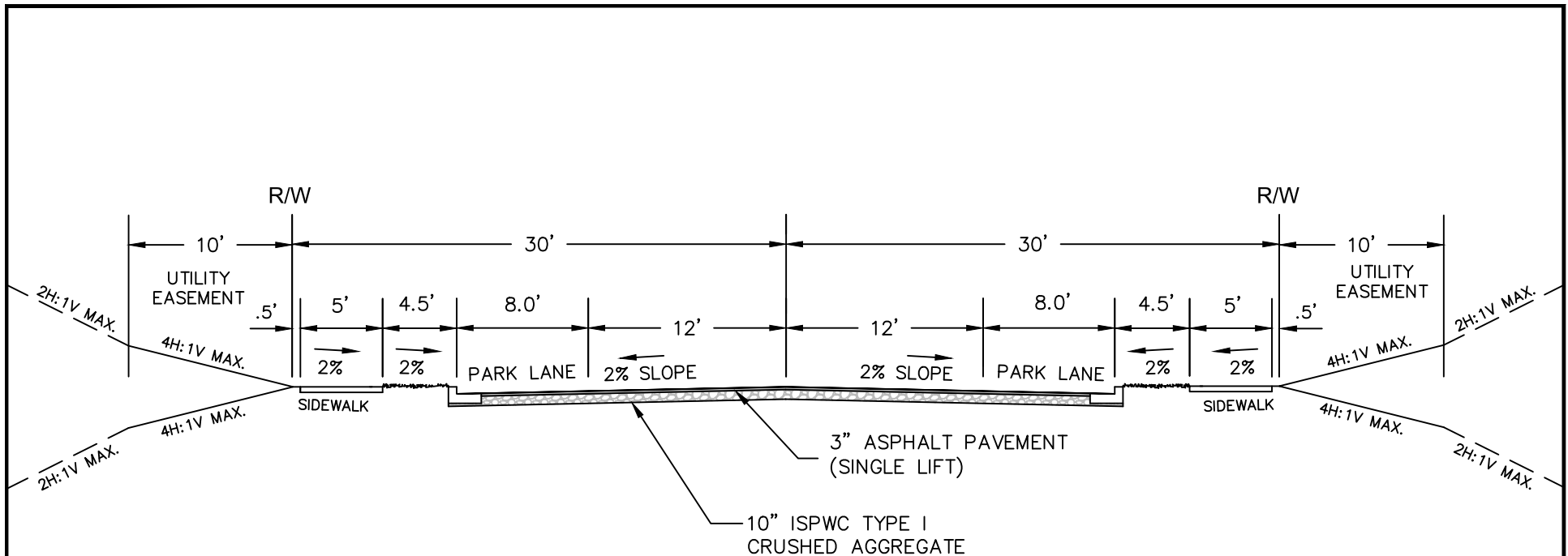
DWG. NO.

City Engineer

Date

3-8

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NOTES:

1. 60' RIGHT OF WAY WIDTH.
2. 8% GRADE MAX.
3. 200' CENTERLINE RADIUS (MIN.) – SMALLER RADIUS MAY BE ALLOWED IF CURVE IS SUPERELEVATED (REFER TO AASHTO).
4. HIGH BACK CURB ONLY.
5. THE PLANTING STRIP SHALL BE MAINTAINED BY THE ADJACENT PROPERTY OWNERS.
6. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
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**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

RESIDENTIAL COLLECTOR



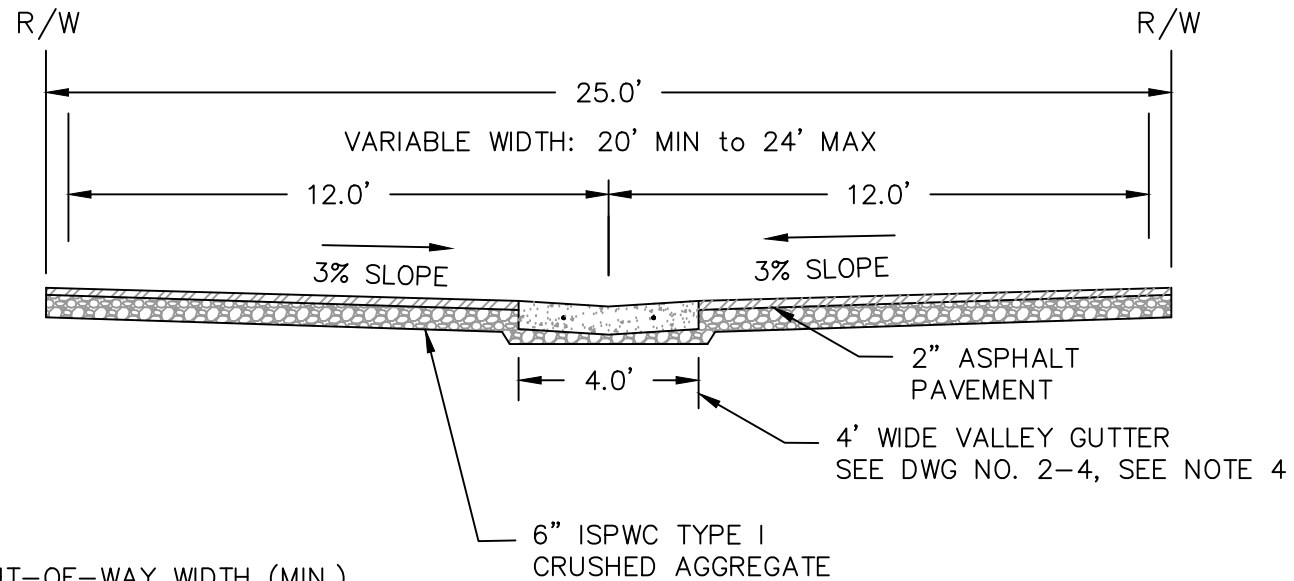
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

3-9



NOTES:

1. 25' RIGHT-OF-WAY WIDTH (MIN.).
2. 11% GRADE MAX.
3. NO CURB AND GUTTER.
4. VALLEY GUTTER REQUIRED IF ROAD GRADE < 2%  
OR AT DIRECTION OF THE CITY ENGINEER.

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**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**PAVED ALLEY**



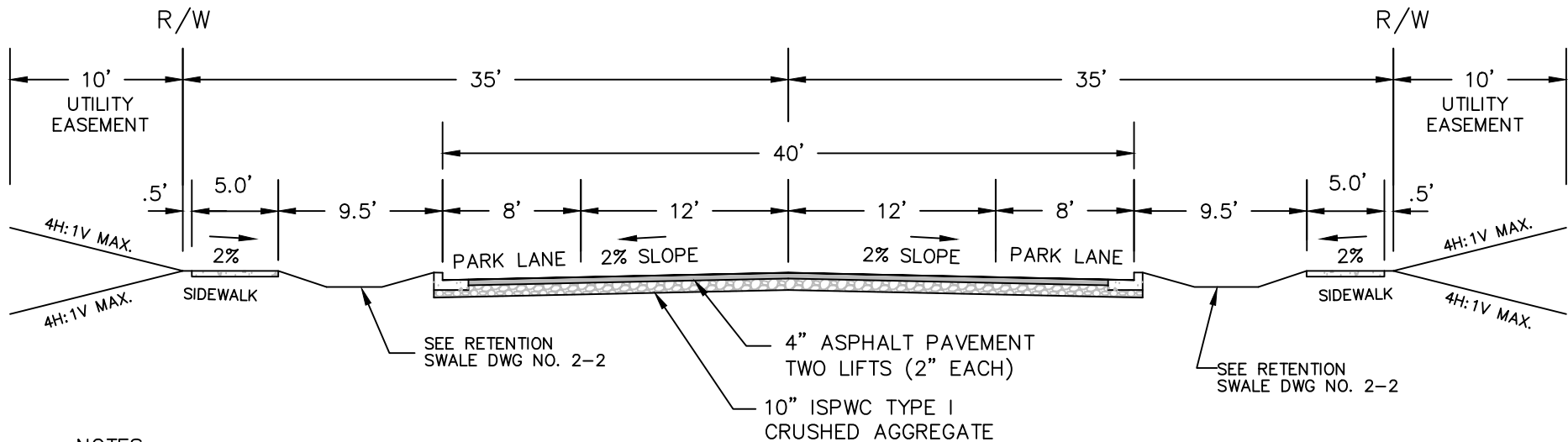
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**3-10**



NOTES:

1. 70' RIGHT OF WAY WIDTH.
2. 5% MAX. GRADE.
3. 200 FT. CENTERLINE RADIUS (MIN.).
4. INSTALL HIGH BACK CURB & GUTTER ONLY.
5. DESIGN ENGINEER MUST ACCOUNT FOR TRUCK TRAILER OFF TRACKING ON CURVES. STREET WIDTH AND/OR RIGHT-OF-WAY WIDTH MAY NEED TO BE INCREASED.
6. ADDITIONAL RIGHT-OF-WAY AT INTERSECTIONS MAY BE NEEDED TO ALLOW FOR TURNING LANE.
7. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
8. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
9. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
10. OPTION #2 SIDEWALK AT BACK OF CURB ONLY ALLOWED WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
11. ALTERNATE CROSS-SECTION - NO PARKING TWO 14' TRAVEL LANES AND ONE 12' TURN LANE OR TWO 14' TRAVEL LANES AND TWO 6' BIKE LANES (GUTTER NOT INCLUDED).
12. ASPHALT PAVEMENT MAY BE WATER TESTED FOR PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
13. THE CITY ENGINEER MAY REQUIRE CORING OF THE ASPHALT PAVEMENT TO VERIFY PAVEMENT THICKNESS OR DENSITY.
14. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
15. TREE AND UTILITY PLACEMENT MUST MEET CITY STD DWG NO. 1-1.
16. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**LOCAL COMMERCIAL W/  
INFILTRATION DRAINAGE**



APPROVED FOR PUBLICATION

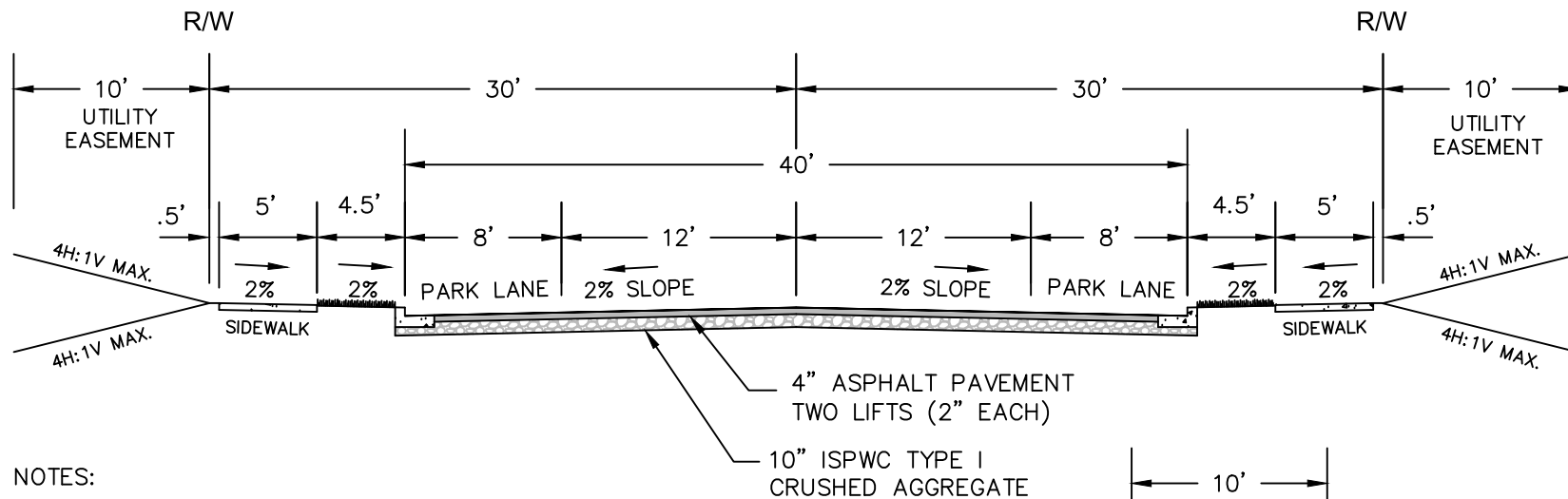
DWG. NO.

City Engineer

Date

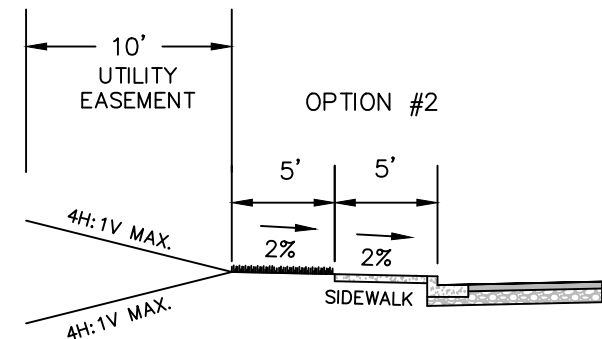
**3-11**

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NOTES:

1. 60' RIGHT OF WAY WIDTH.
2. 8% MAX. GRADE.
3. 200 FT. CENTERLINE RADIUS (MIN.).
4. INSTALL HIGH BACK CURB & GUTTER ONLY.
5. DESIGN ENGINEER MUST ACCOUNT FOR TRUCK TRAILER OFF TRACKING ON CURVES. STREET WIDTH AND/OR RIGHT-OF-WAY WIDTH MAY NEED TO BE INCREASED.
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**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**LOCAL COMMERCIAL**



APPROVED FOR PUBLICATION

**DWG. NO.**

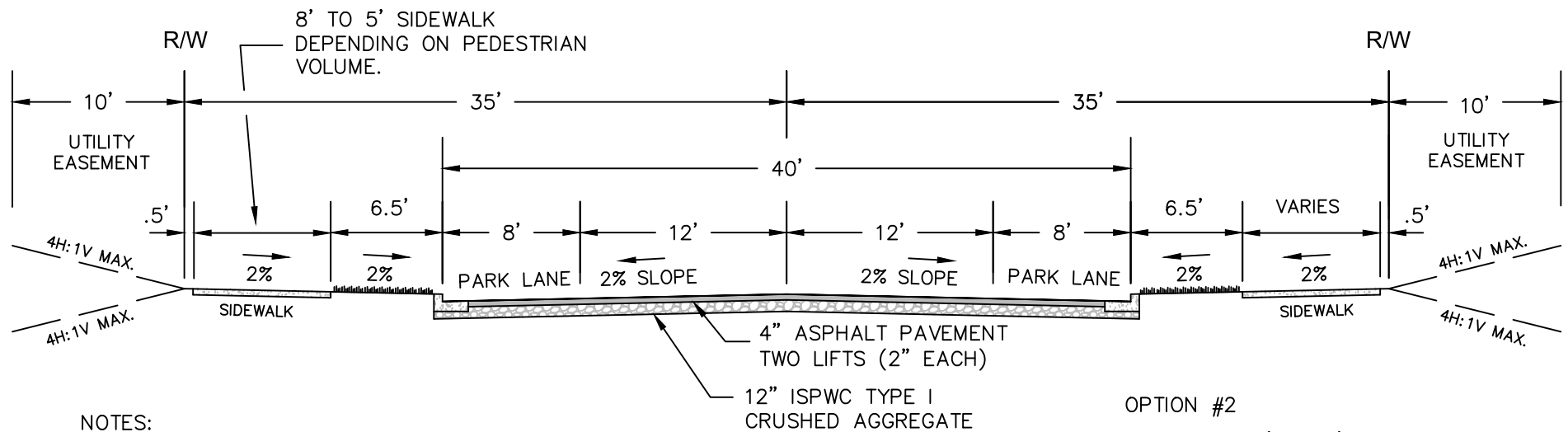
City Engineer

Date

**3-12**

...\\3-Street\\local\_commercial.dwg

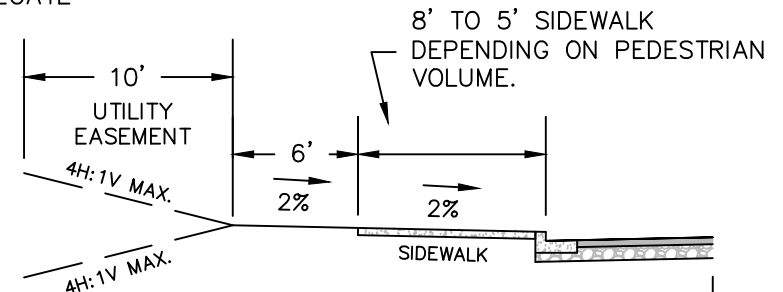




#### NOTES:

1. 70' RIGHT OF WAY WIDTH.
2. 8% MAX. GRADE.
3. 500 FT. CENTERLINE RADIUS (MIN.).
4. INSTALL HIGH BACK CURB & GUTTER ONLY.
5. DESIGN ENGINEER MUST ACCOUNT FOR TRUCK TRAILER OFF TRACKING ON CURVES. STREET WIDTH AND/OR RIGHT-OF-WAY WIDTH MAY NEED TO BE INCREASED.
6. ADDITIONAL RIGHT-OF-WAY AT INTERSECTIONS MAY BE NEEDED TO ALLOW FOR TURNING LANE.
7. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
8. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
9. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
10. OPTION #2 SIDEWALK AT BACK OF CURB ONLY ALLOWED WITH WRITTEN APPROVAL OF THE CITY ENGINEER.
11. ALTERNATE CROSS-SECTION - NO PARKING TWO 14' TRAVEL LANES AND ONE 12' TURN LANES OR TWO 14' TRAVELS LANES AND TWO 6' BIKE LANES.
12. ASPHALT PAVEMENT MAY BE WATER TESTED FOR PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
13. THE CITY ENGINEER MAY REQUIRE CORING OF THE ASPHALT PAVEMENT TO VERIFY PAVEMENT THICKNESS OR DENSITY.

#### OPTION #2



14. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
15. TREE AND UTILITY PLACEMENT MUST MEET CITY STD DWG NO. 1-1.
16. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### INDUSTRIAL & COMMERCIAL COLLECTOR



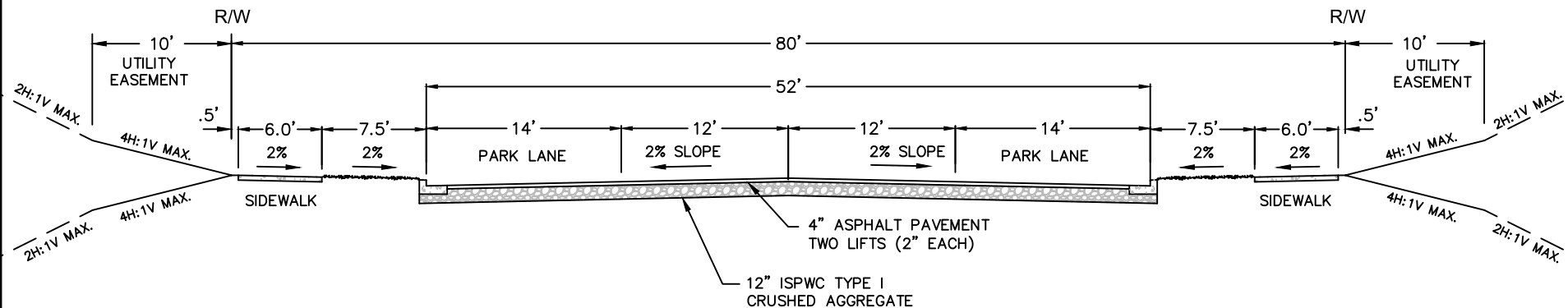
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**3-13**



#### NOTES:

1. 80' RIGHT OF WAY WIDTH.
2. 8% MAX. GRADE.
3. 500 FT. CENTERLINE RADIUS (MIN.).
4. INSTALL HIGH BACK CURB & GUTTER ONLY.
5. DESIGN ENGINEER MUST ACCOUNT FOR TRUCK TRAILER OFF TRACKING ON CURVES. STREETS WIDTH AND/OR RIGHT-OF-WAY WIDTH MAY NEED TO BE INCREASED.
6. ADDITIONAL RIGHT-OF-WAY AT INTERSECTIONS MAY BE NEEDED TO ALLOW FOR TURNING LANE.
7. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
8. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
9. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
10. ALTERNATE CROSS-SECTION: FOUR - 12' TRAVEL LANES WITH 4' CENTER MEDIAN OR TWO - 14' TRAVEL LANES, ONE 12' TURN LANE AND TWO - 6' BIKE LANES.

11. ASPHALT PAVEMENT MAY BE WATER TESTED FOR PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
12. THE CITY ENGINEER MAY REQUIRE CORING OF THE ASPHALT PAVEMENT TO VERIFY PAVEMENT THICKNESS OR DENSITY.
13. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
14. TREE AND UTILITY PLACEMENT MUST MEET CITY STD DWG NO. 1-1.
15. A 0.5' STRIP TO BE LOCATED BEHIND THE SIDEWALK FOR PLACEMENT OF PROPERTY PINS.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### MINOR ARTERIAL



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**3-14**

M:\Standards\2008 - Standards\3\_Street\Minor\_Arterial.dwg

|                                   | LOCAL RESIDENTIAL | LOCAL COMMERCIAL | RURAL STREET | RESIDENTIAL COLLECTOR | INDUSTRIAL & COMMERCIAL COLLECTOR | MINOR ARTERIAL |
|-----------------------------------|-------------------|------------------|--------------|-----------------------|-----------------------------------|----------------|
| LOCAL RESIDENTIAL                 | 20                | 30               | 20           | 25                    | 30                                | 30             |
| LOCAL COMMERCIAL                  |                   | 30               | 30           | 30                    | 30                                | 30             |
| RURAL STREET                      |                   |                  | 20           | 25                    | 30                                | 30             |
| RESIDENTIAL COLLECTOR             |                   |                  |              | 30                    | 30                                | 30             |
| INDUSTRIAL & COMMERCIAL COLLECTOR |                   |                  |              |                       | 30                                | 30             |
| MINOR ARTERIAL                    |                   |                  |              |                       |                                   | 30             |

CORNER RADIUS < 30' WILL TAKE SPECIAL CONSIDERATION AND DESIGN.  
WRITTEN PERMISSION FROM THE PUBLIC WORKS DEPT. IS REQUIRED.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

## CORNER RADIUS

APPROVED FOR PUBLICATION

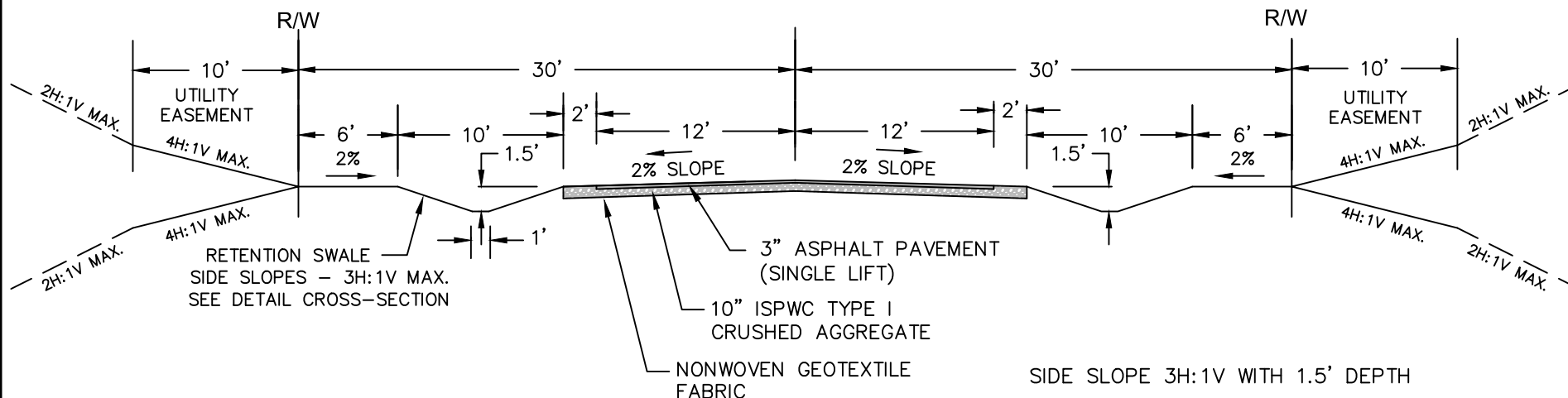
*Chris D.* 2-5-09

City Engineer

Date

DWG. NO.

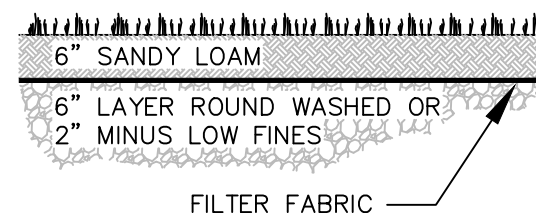
3-15



#### NOTES:

1. 60' RIGHT OF WAY WIDTH.
2. 5% MAX. GRADE; STEEPER SLOPES MAY BE ACCEPTABLE IF CHECK DAMS AND ENERGY DISSIPATING MEASURES ARE USED FOR GRADES UP TO 11%, BUT MUST BE APPROVED BY THE CITY ENGINEER.
3. 200' CENTERLINE RADIUS (MIN.) – SMALLER RADIUS MAY BE ALLOWED IF CURVE IS SUPERELEVATED – REFER TO AASHTO MANUAL.
4. THE CITY ENGINEER MAY REQUIRE SOIL TESTING AND/OR GEOTECHNICAL ENGINEERING EVALUATION TO VERIFY LOAD BEARING CAPACITY OF SUBGRADE.
5. TRAFFIC CALMING AND ENTRANCE FEATURES SHALL BE EVALUATED ON A CASE BY CASE BASIS; FINAL APPROVAL SHALL BE BY THE CITY ENGINEER.
6. ADD 10' OF PAVEMENT WIDTH & RIGHT-OF-WAY WIDTH (5' EACH SIDE OF CENTERLINE WHEN BIKE LANES ARE REQUIRED).
7. THE CITY ENGINEER MAY REQUIRE CORING OF THE ASPHALT PAVEMENT TO VERIFY PAVEMENT THICKNESS OR DENSITY.
8. ANY VARIATION TO PROPOSED ROAD CROSS-SECTION MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.

SIDE SLOPE 3H:1V WITH 1.5' DEPTH



DETAIL CROSS-SECTION

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

TYPICAL RURAL ROADWAY  
(WITHIN IMPACT AREA)



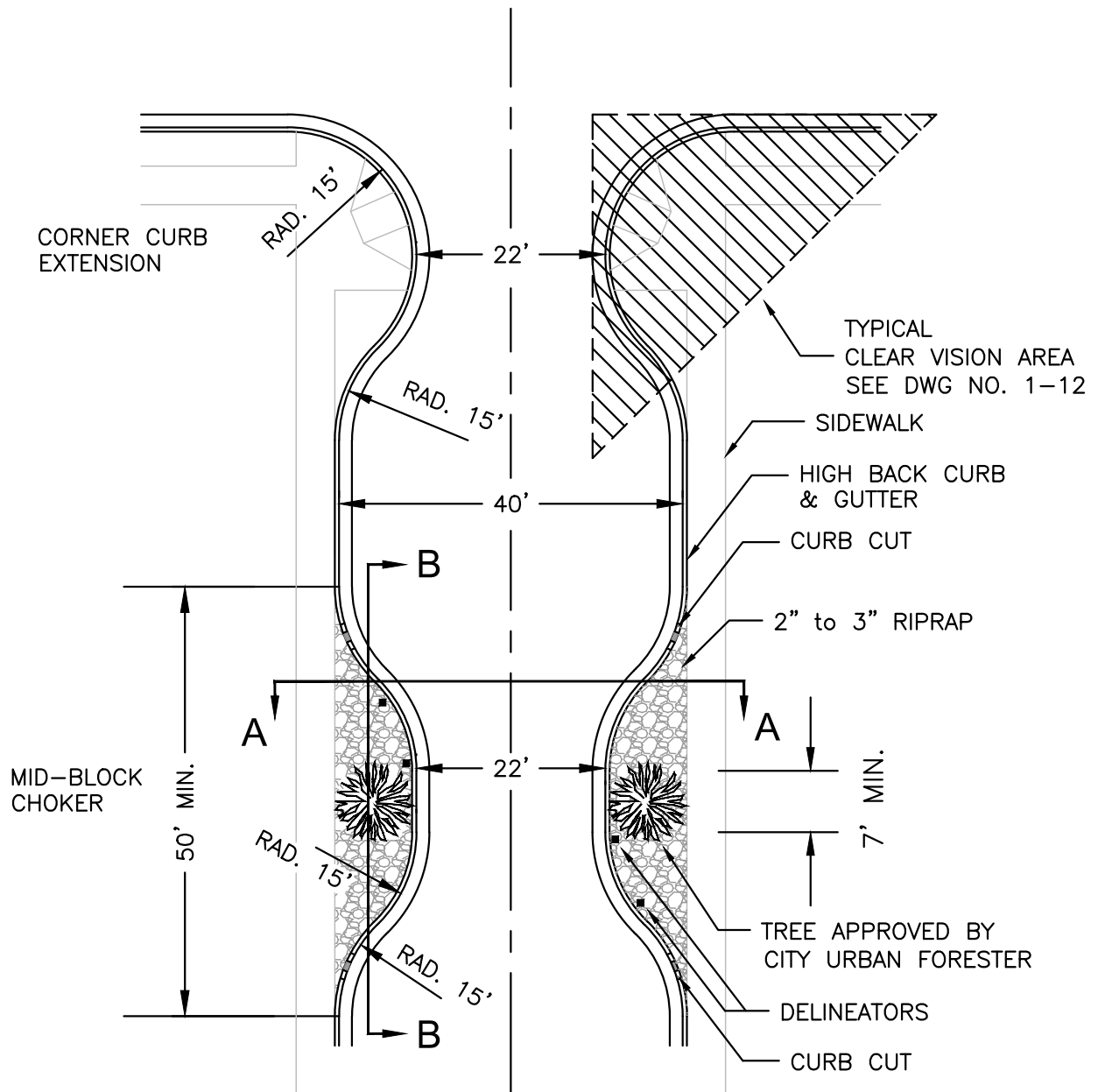
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City Engineer

Date

**3-16**



NOTES:  
ON STREETS 27' OR LESS IN WIDTH,  
CURB CHOKERS WILL NOT BE ALLOWED  
WITHIN 50 FT. OF THE INTERSECTION  
DUE TO THE TURNING RADIUS FOR  
EMERGENCY VEHICLES.

Page 1 of 2

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**CURB EXTENSION  
& MID-BLOCK CHOKER**



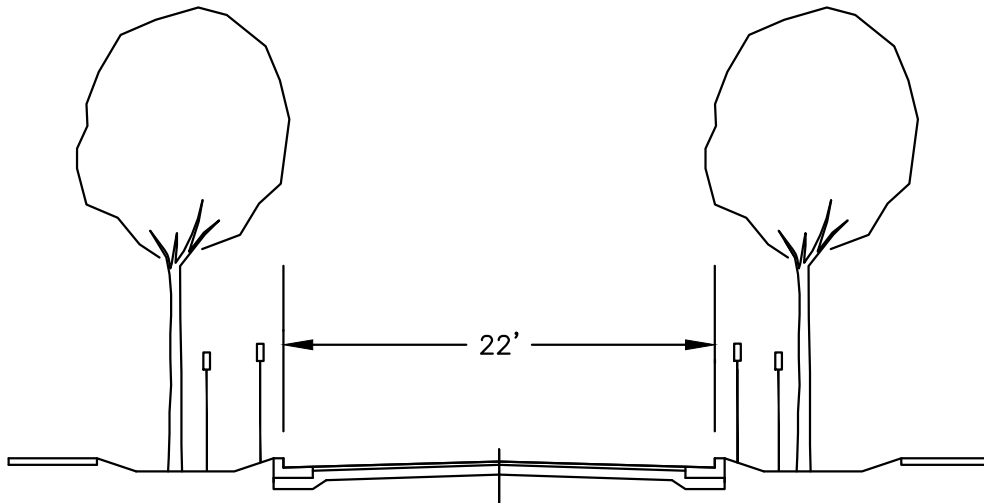
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

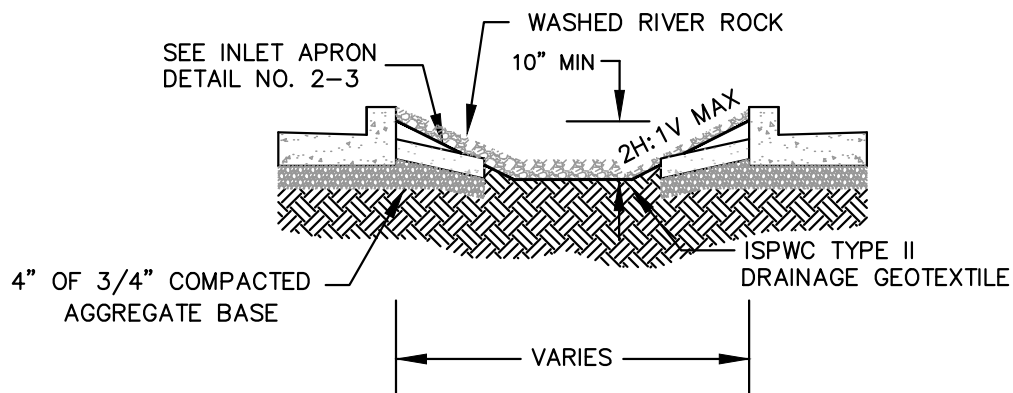
Date

**3-17**



### CROSS-SECTION DETAIL

#### **SECTION 'A-A'**



### RETENTION SWALE DETAIL

#### **SECTION 'B-B'**

Page 2 of 2

### **CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT**

#### **CURB EXTENSION & MID-BLOCK CHOKER**



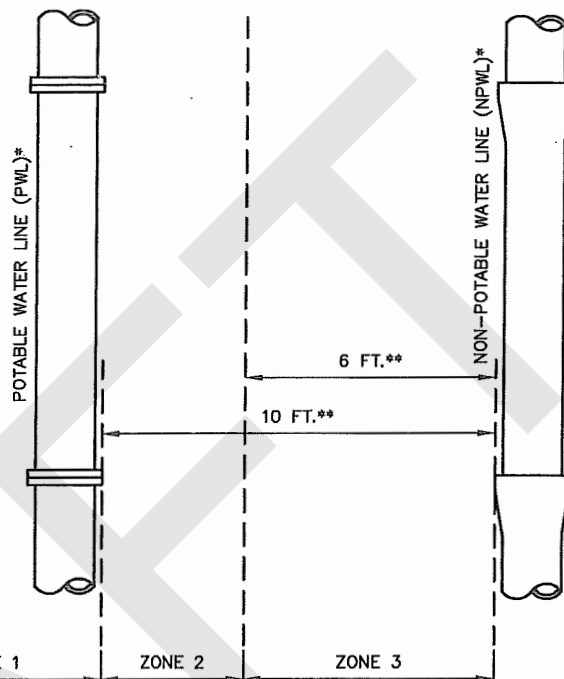
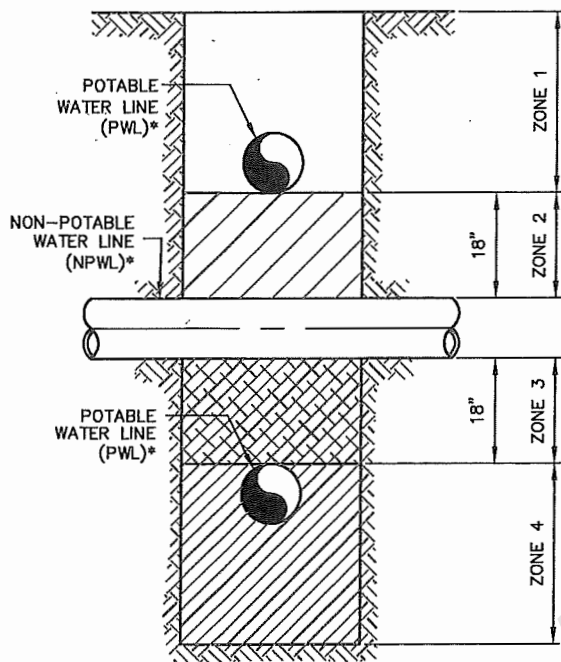
APPROVED FOR PUBLICATION

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City Engineer

Date

**3-17**



\* NPWL IS DEFINED IN SECTION 405.1.1.A AND THE TERM "LINE" APPLIES TO BOTH MAIN LINES AND SERVICE LINES. FOR SPECIAL CIRCUMSTANCES, REFER TO IDAPA 58.01.08.542.07 AND 58.01.16.430.02.o.

\*\* DISTANCES ARE HORIZONTAL.

\*\*\* JOINT PLACEMENT APPLIES ONLY TO FACILITY BEING CONSTRUCTED. POTABLE WATER, NON-POTABLE WATER, OR BOTH.

## VERTICAL SEPARATION REQUIREMENTS

ZONE 1: A) ONE FULL, UN CUT LENGTH OF PWL OR\*\*\* NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2: A) ONE FULL, UN CUT LENGTH OF PWL OR\*\*\* NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

AND EITHER B) NPWL MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF CROSSING.

OR C) EITHER THE NPWL OR PWL MUST BE CASED WITH A POTABLE WATER CLASS SLEEVE FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING. CEMENT OR CONCRETE ENCASEMENT IS NOT AN ALLOWABLE SUBSTITUTE.

ZONE 3: SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL MUST ALSO BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING.

ZONE 4: SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING.

## HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: A) PWL AND NPWL PIPELINES MUST BE IN SEPARATE TRENCHES.

ZONE 2: A) PWL AND NPWL MUST BE IN SEPARATE TRENCHES. FOR MAIN LINES, THE FOLLOWING ADDITIONAL REQUIREMENTS APPLY:

i BOTTOM OF PWL MUST BE ABOVE TOP OF NPWL.

ii NPWL CONSTRUCTED TO WATER MAIN STANDARDS.

ZONE 3: DESIGN ENGINEER MUST SUBMIT DOCUMENTATION TO DEQ FOR APPROVAL SHOWING ALTERNATE SEPARATION WILL PROTECT PUBLIC HEALTH AND THE ENVIRONMENT.

NOTES: 1. PRESSURIZED NPWL MAINS MUST HAVE MIN. 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS ARE NOT ALLOWED.

2. ALL PWL AND NPWL CROSSINGS MUST BE PERPENDICULAR, UNLESS OTHERWISE APPROVED BY DEQ.

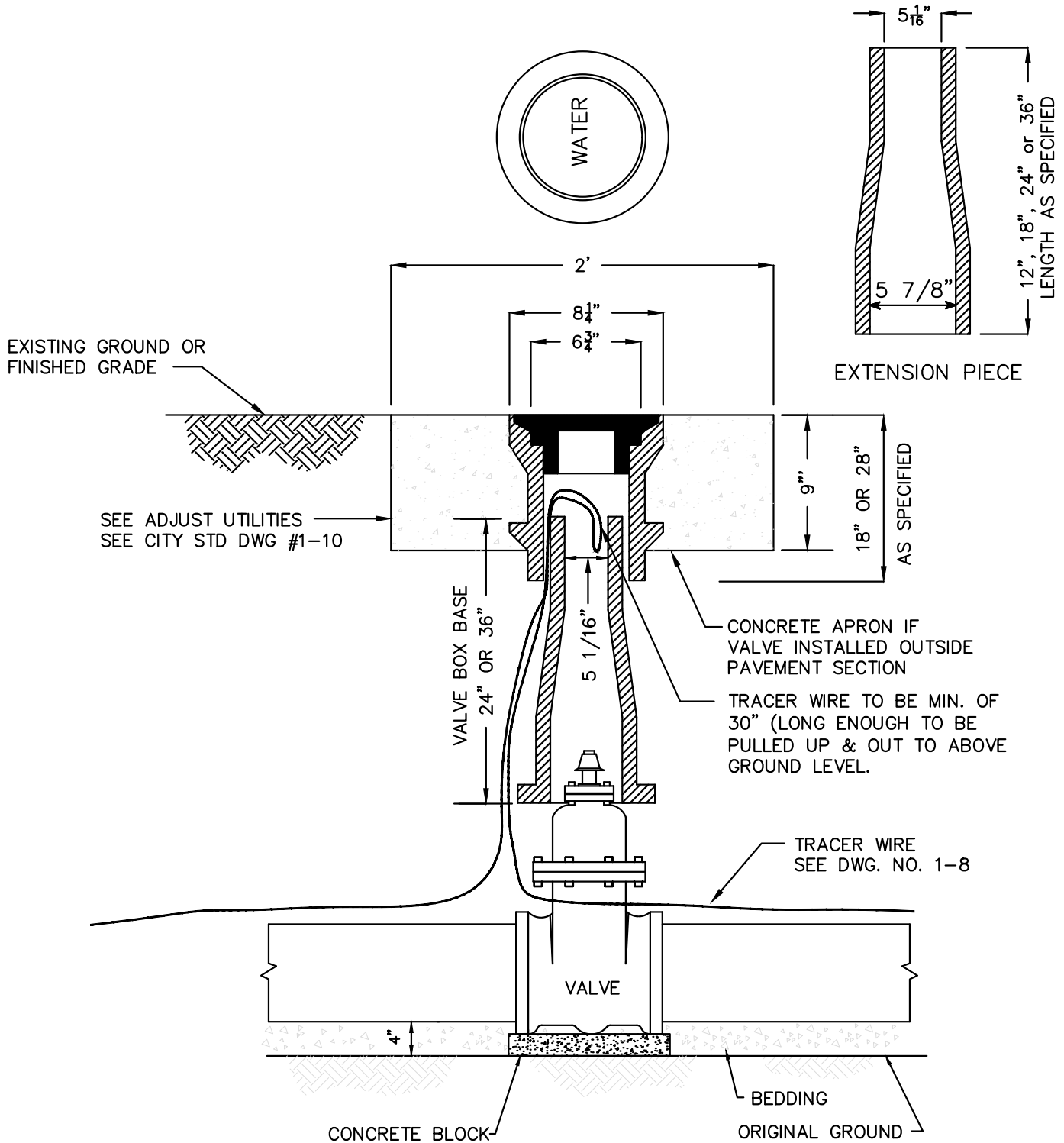
2025

IDAHO STANDARDS  
FOR PUBLIC WORKS  
CONSTRUCTION

POTABLE AND NON-POTABLE WATER  
LINE (NPWL) SEPARATION

STANDARD DRAWING  
NO. SD-407





**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**GATE VALVE BOX  
WITH ASSEMBLY**



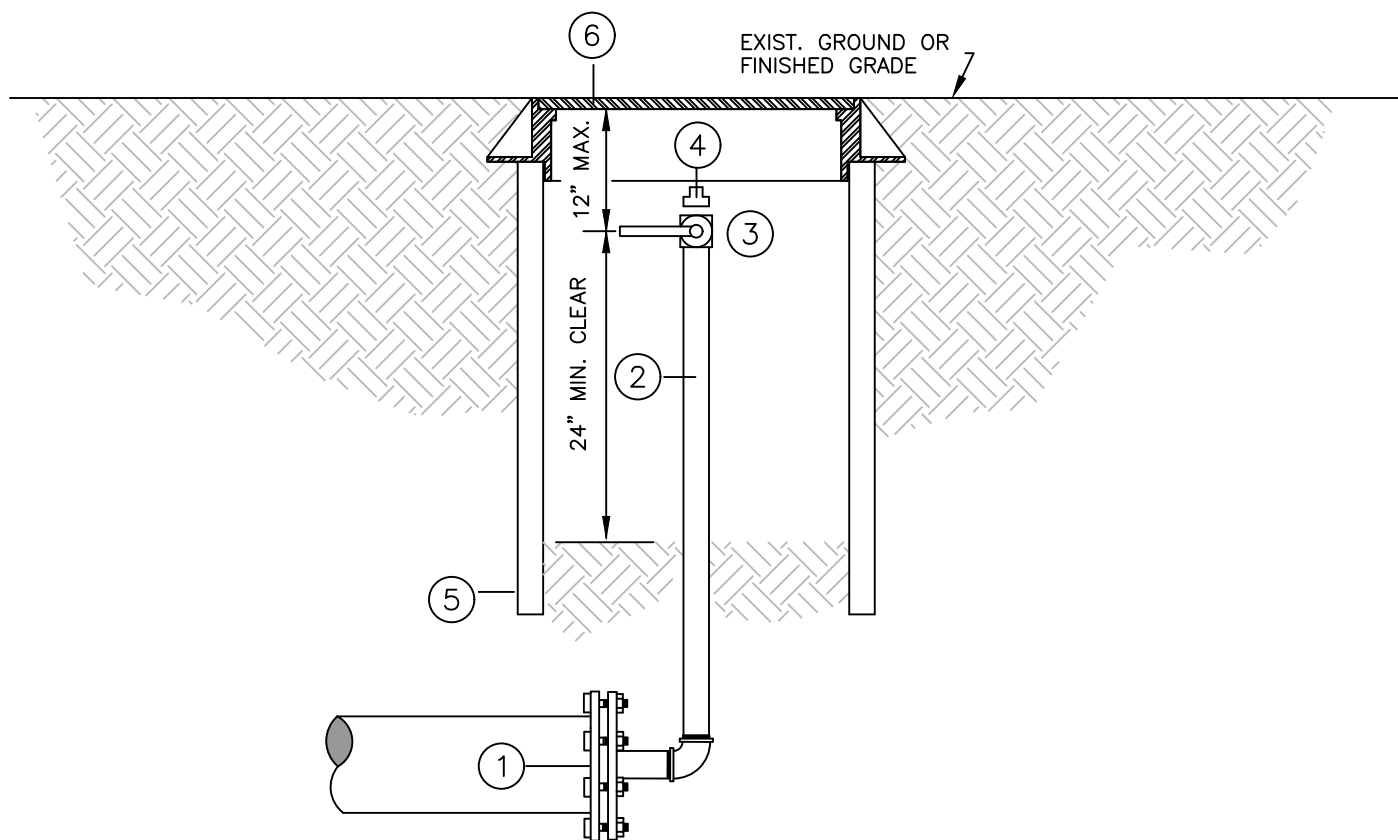
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**4-2**



#### REQUIRED COMPONENTS

1. CAP OR PLUG ON WATER MAIN
2. 2" GALVANIZED PIPE
3. 2" BALL VALVE
4. 2" THREADED PLUG
5. 24" HDPE PIPE
6. OLYMPIC FOUNDRY MH-23 MANHOLE & COVER
7. THRUST BLOCK OR RESTRAINTS (NOT SHOWN)

#### **CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT**

#### **TEMPORARY COMBINATION BLOWOFF AND SAMPLING TAP**



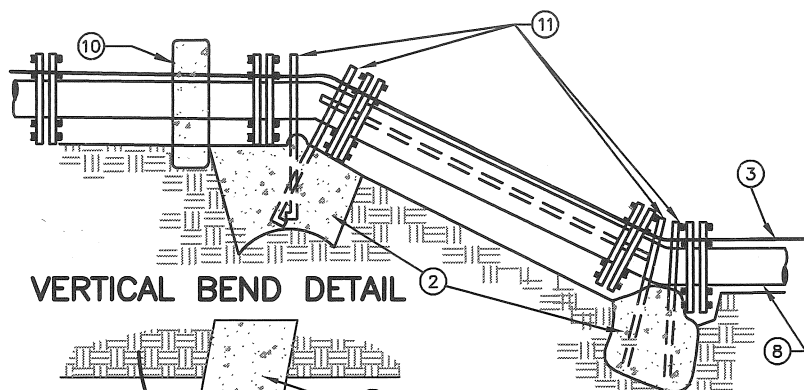
APPROVED FOR PUBLICATION

DWG. NO.

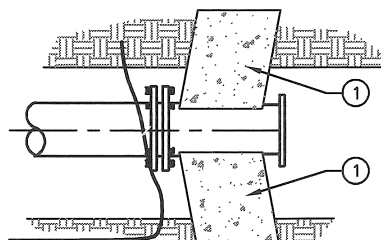
City Engineer

Date

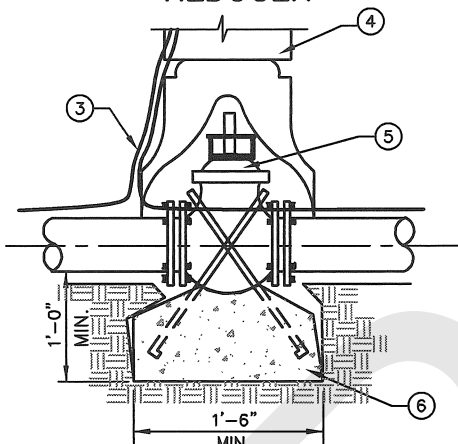
**4-3**



**VERTICAL BEND DETAIL**



**REDUCER**



**VALVE ANCHOR DETAIL**

**TABLE 1  
THRUST AREA FOR HORIZONTAL BENDS \*\*\***

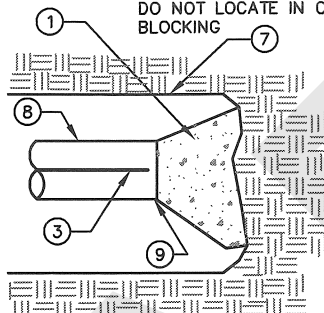
| SOIL BEARING PRESSURE = 2000 PSF<br>WORKING PRESSURE RATING = 150 PSI<br>SAFETY FACTOR = 1.5 |                       |               |             |                                   |
|----------------------------------------------------------------------------------------------|-----------------------|---------------|-------------|-----------------------------------|
| MINIMUM SQUARE FEET OF THRUST AREA<br>ONTO UNDISTURBED EARTH*                                |                       |               |             |                                   |
| PIPE<br>SIZE                                                                                 | TEE, PLUG<br>OR VALVE | 90°<br>BEND** | 45°<br>BEND | 22.5°, 11.25°<br>BENDS OR REDUCER |
| 3                                                                                            | 0.8                   | 1.1           | 0.6         | 0.3                               |
| 4                                                                                            | 1.4                   | 2.0           | 1.1         | 0.6                               |
| 6                                                                                            | 3.2                   | 4.5           | 2.4         | 1.2                               |
| 8                                                                                            | 5.7                   | 8.0           | 4.3         | 2.2                               |
| 10                                                                                           | 8.8                   | 12.5          | 6.8         | 3.4                               |
| 12                                                                                           | 12.7                  | 18.0          | 9.7         | 5.0                               |
| 14                                                                                           | 17.3                  | 24.5          | 13.3        | 6.8                               |
| 16                                                                                           | 22.6                  | 32.0          | 17.3        | 8.8                               |
| 18                                                                                           | 28.6                  | 40.5          | 21.9        | 11.2                              |

\* MUST BE INCREASED BASED ON DIFFERENT CONDITIONS (HIGHER WORKING PRESSURE OR LOWER SOIL BEARING STRENGTH).

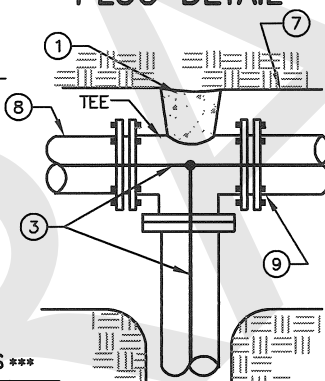
\*\* OR TEE ACTING AS A 90° BEND.

\*\*\* THRUST BLOCK DEPTH TO BE A MINIMUM OF 12" FOR PIPE SIZES 3"-8" AND 18" FOR PIPE SIZES 10"-18" OR THE SQUARE ROOT OF THE REQUIRED BEARING AREA, WHICHEVER IS GREATER.

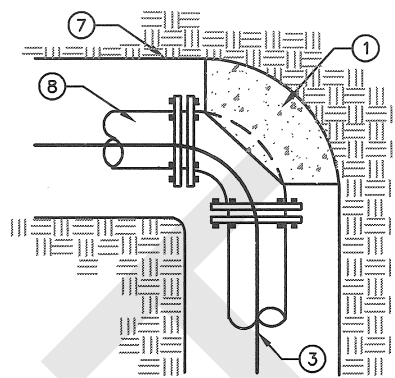
DO NOT LOCATE IN CONCRETE  
BLOCKING



**PLUG DETAIL**



**TEE DETAIL**



**TYP. BEND DETAIL**

### LEGEND

- ① FOR HORIZONTAL PIPE BENDS, BEARING THRUST BLOCKS MUST PROVIDE 2500 P.S.I. CONCRETE POURED AGAINST UNDISTURBED EARTH PER TABLE 1.
- ② FOR VERTICAL PIPE BENDS, GRAVITY THRUST THRUST BLOCKS MUST PROVIDE A VOLUME OF CONCRETE POURED AGAINST UNDISTURBED EARTH WHICH IS SIZED FOR EXPECTED FORCES WITH A MINIMUM 1.5 FACTOR OF SAFETY.
- ③ NO. 12 COPPER FINDER WIRE. SEE SD-514 FOR SPLICING.
- ④ C.I. VALVE BOX WITH COVER.
- ⑤ C.I. GATE VALVE (M.J.).
- ⑥ PRECAST BLOCK FOR CUT IN TEE AND VALVE OR CAST IN PLACE WITH 2 1/2" Ø MIN. REBAR.
- ⑦ TRENCH SIDE.
- ⑧ PIPE.
- ⑨ PLUG.
- ⑩ HAMMERHEAD THRUST BLOCKING.
- ⑪ ANCHOR BARS (1/2" Ø MIN.).

### NOTES:

- (A) ANCHOR ALL VALVES CONNECTED TO P.V.C. PIPE AS SHOWN.
- (B) COVER BOLTS AND FLANGES WITH PLASTIC TO PROTECT FROM CONCRETE ADHERENCE DURING CONSTRUCTION OF THRUST BLOCKS.
- (C) SEE CHART FOR MIN THRUST BLOCKS BEARING AREAS.
- (D) ALL CONCRETE TO BE 2500 P.S.I. STRENGTH POURED AGAINST UNDISTURBED EARTH.
- (E) PROVIDE 6 MIL POLYPROPYLENE BETWEEN FITTINGS AND CONCRETE.
- (F) NOTIFY ENGINEER FOR ANY CONDITION OR PIPE SIZE NOT INDICATED.
- (D) ALL BLOCKS TO BE CENTERED AROUND PIPE SPRING LINE.

2025

IDAHO STANDARDS  
FOR PUBLIC WORKS  
CONSTRUCTION

THRUST BLOCK AND  
AND DETAILS

STANDARD DRAWING  
NO. SD-403

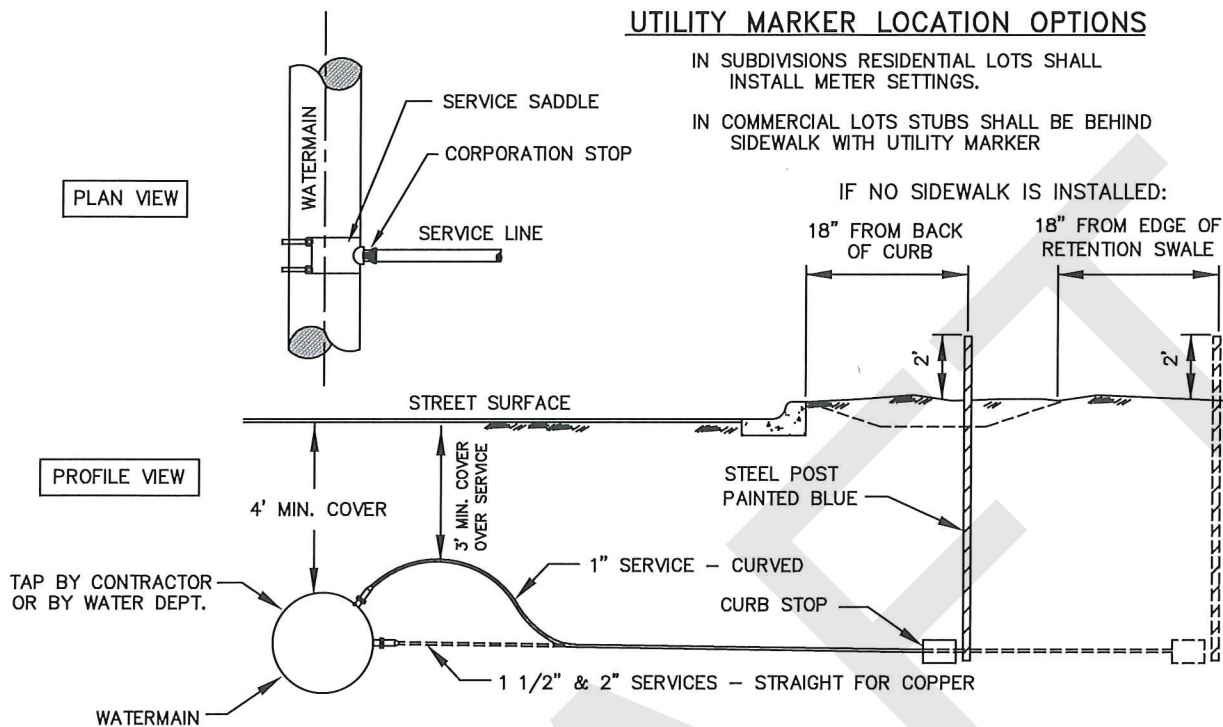
## UTILITY MARKER LOCATION OPTIONS

IN SUBDIVISIONS RESIDENTIAL LOTS SHALL  
INSTALL METER SETTINGS.

IN COMMERCIAL LOTS STUBS SHALL BE BEHIND  
SIDEWALK WITH UTILITY MARKER

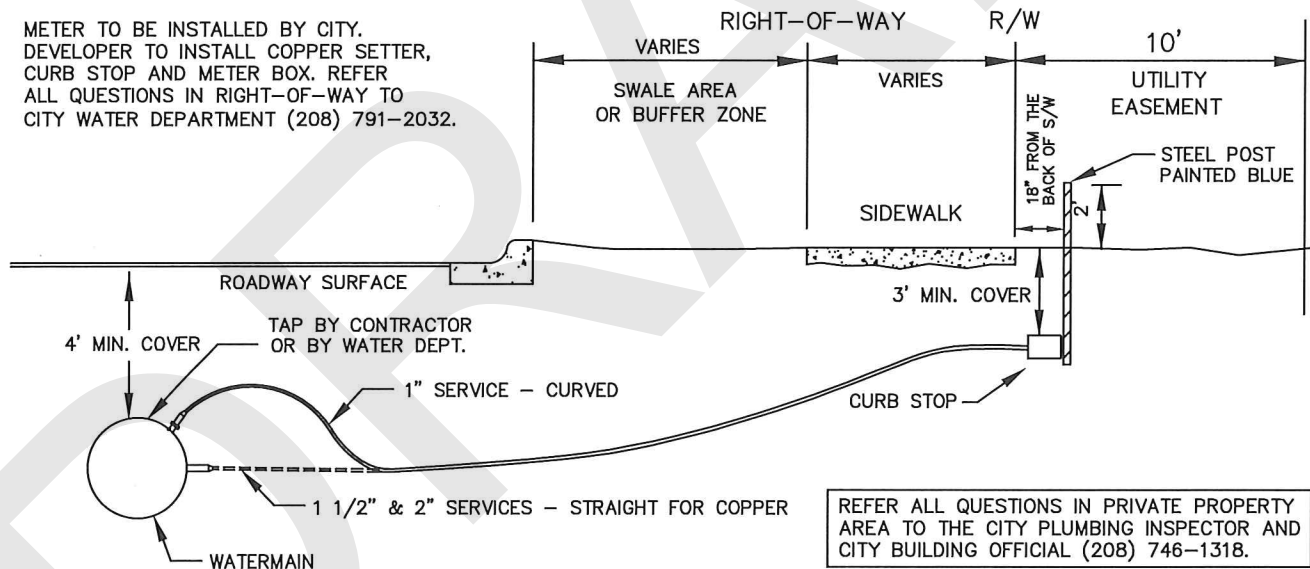
PLAN VIEW

PROFILE VIEW



PEX TYPE 'A' TO BE INSTALLED CURVED TO MAIN [SIMILAR TO 1" SERVICE]

METER TO BE INSTALLED BY CITY.  
DEVELOPER TO INSTALL COPPER SETTER,  
CURB STOP AND METER BOX. REFER  
ALL QUESTIONS IN RIGHT-OF-WAY TO  
CITY WATER DEPARTMENT (208) 791-2032.



REFER ALL QUESTIONS IN PRIVATE PROPERTY  
AREA TO THE CITY PLUMBING INSPECTOR AND  
CITY BUILDING OFFICIAL (208) 746-1318.

PEX TYPE 'A' TO BE INSTALLED CURVED  
TO MAIN [SIMILAR TO 1" SERVICE]

SHEET 1 OF 2

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

**TYPICAL WATER METER or  
UTILITY MARKER LOCATION**

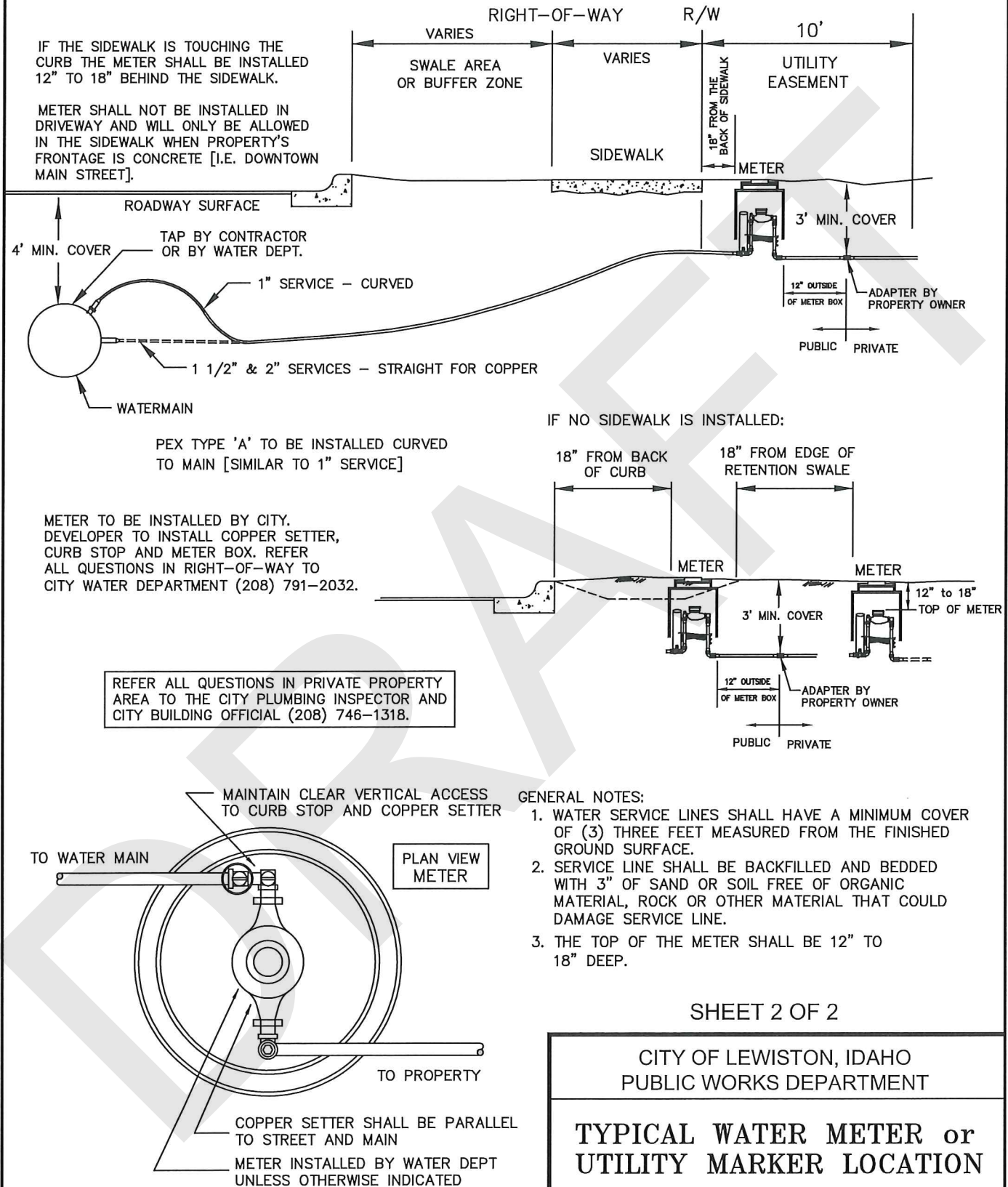
APPROVED FOR PUBLICATION

*Shawn Stiles* 2/17/15  
City Engineer Date

DWG. NO.

4-5

# TYPICAL WATER METER LOCATION



SHEET 2 OF 2

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

## TYPICAL WATER METER or UTILITY MARKER LOCATION

APPROVED FOR PUBLICATION

*Shawn Stubbins* 3/17/15  
City Engineer Date

DWG. NO.

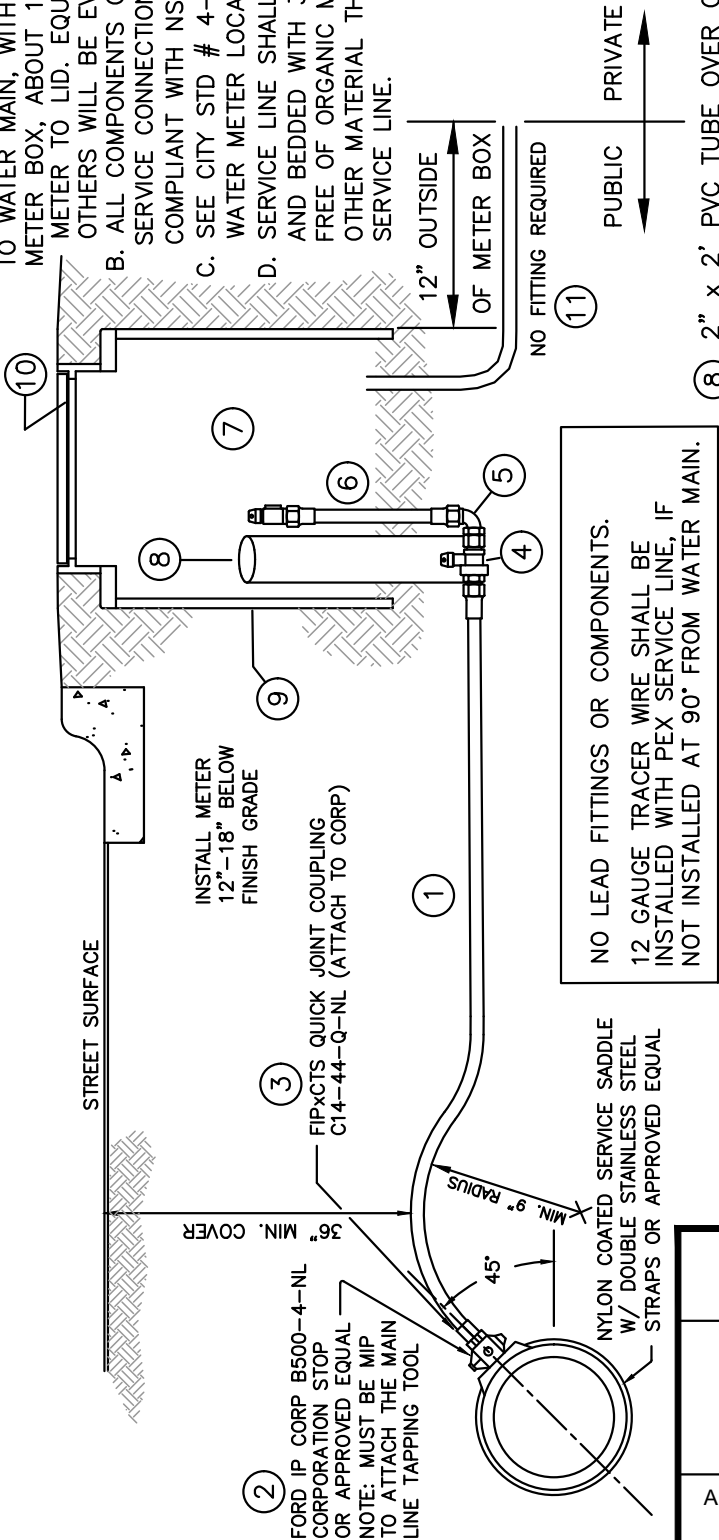
4-5





# **GENERAL NOTES:**

- A. USE ONLY FORD FOR THE FITTINGS & SETTER W/ SPECIFIED PART NUMBERS. USE NO LEAD BRASS FOR OTHER COMMON BRASS PARTS. INSTALL METER SETTER PARALLEL TO WATER MAIN, WITH CURB STOP INSIDE METER BOX, ABOUT 18" FROM TOP OF METER TO LID. EQUIVALENT ITEMS BY OTHERS WILL BE EVALUATED.
- B. ALL COMPONENTS OF THE NEW WATER SERVICE CONNECTIONS SHALL BE CERTIFIED COMPLIANT WITH NSF 61 STANDARD.
- C. SEE CITY STD # 4-5 FOR TYPICAL WATER METER LOCATION.
- D. SERVICE LINE SHALL BE BACKFILLED AND BEDDED WITH 3" OF SAND OR SOIL FREE OF ORGANIC MATERIAL, ROCK OR OTHER MATERIAL THAT COULD DAMAGE SERVICE LINE.



## **1" SERVICE COMPONENTS**

- 1 1" US K COPPER OR IF USING PEX Type "A" PIPE MUST USE A PEX INSERT AT EVERY FITTING
- 2 1" MIPxMIP CORPORATION STOP, FB500-4-NL COMPRESSION CORPS NOT ALLOWED
- 3 1" FIPxCTS QUICK JOINT COUPLING C14-44-Q-NL
- 4 1" FIPxCTS QUICK JOINT BALL VALVE CURB STOP B41-444-Q-NL
- 5 1" STREET ELBOW, NL BRASS (TO ATTACH CURB STOP TO INLET SETTER SWIVEL)
- 6 1" COPPER METER SETTER, VHC74-30W-81-44-NL, SET PARALLEL TO WATER MAIN
- 7 1" MIPxCTS QUICK JOINT 90 ELBOW, L84-44-Q-NL (TO ATTACH OUTLET SETTER SWIVEL TO COPPER/PEX)

## **CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT**

### **STANDARD 1" WATER SERVICE CONNECTION**



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**4-7**



# **GENERAL NOTES:**

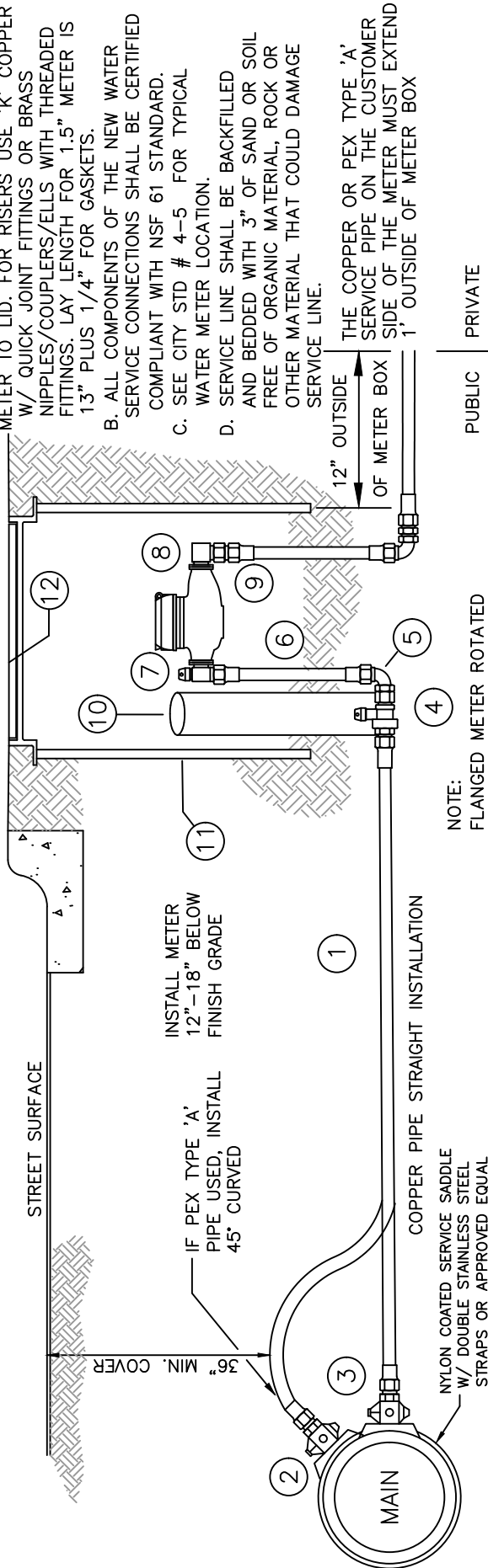
A. USE ONLY FORD FOR THE FITTINGS W/ SPECIFIED PART NUMBERS. USE NO LEAD BRASS FOR OTHER COMMON BRASS PARTS. BUILD SETTING PARALLEL TO WATER MAIN, W/ CURB STOP INSIDE METER BOX, ABOUT 18" FROM TOP OF METER TO LID. FOR RISERS USE 'K' COPPER W/ QUICK JOINT FITTINGS OR BRASS NIPPLES/COUPLERS/ELLS WITH THREADED FITTINGS. LAY LENGTH FOR 1.5" METER IS 13" PLUS 1/4" FOR GASKETS.

B. ALL COMPONENTS OF THE NEW WATER SERVICE CONNECTIONS SHALL BE CERTIFIED COMPLIANT WITH NSF 61 STANDARD.

C. SEE CITY STD # 4-5 FOR TYPICAL WATER METER LOCATION.

D. SERVICE LINE SHALL BE BACKFILLED AND BEDDED WITH 3" OF SAND OR SOIL FREE OF ORGANIC MATERIAL, ROCK OR OTHER MATERIAL THAT COULD DAMAGE SERVICE LINE.

THE COPPER OR PEX TYPE 'A' SERVICE PIPE ON THE CUSTOMER SIDE OF THE METER MUST EXTEND 1' OUTSIDE OF METER BOX



NOTE:  
FLANGED METER ROTATED  
FOR DIAGRAM CLARITY

NO LEAD FITTINGS OR COMPONENTS.  
12 GAUGE TRACER WIRE SHALL BE INSTALLED WITH PEX SERVICE LINE, IF NOT INSTALLED AT 90° FROM WATER MAIN.

## **1.5" SERVICE COMPONENTS**

- ① 1.5" US K COPPER OR IF USING PEX Type "A" PIPE MUST USE A PEX INSERT AT EVERY FITTING
- ② 1.5" MIPxMIP CORPORATION STOP, FB500-6-NL COMPRESSION CORPS NOT ALLOWED; MUST BE MIP TO ATTACH THE MAIN LINE TAPPING TOOL
- ③ 1.5" FIPxCTS QUICK JOINT COUPLING C14-66-Q-NL (ATTACH TO CORP)
- ④ 1.5" FIPxCTS QUICK JOINT BALL VALVE CURB STOP B41-666-Q-NL
- ⑤ 1.5" MIPxCTS QUICK JOINT 90 ELBOW, L84-66-Q-NL (UP OUT OF CURB STOP OR 1.5" BRASS STREET ELL WITH BRASS NIPPLES/COUPLER)
- ⑥ 1.5" FLANGE x CTS QUICK ANGLE BALL VALVE, BFA-43-666W-Q-NL, (90 DEGREES FROM CURB STOP) OR 1.5" FLANGE x FIP ANGLE BALL VALVE, BFA-13-666W-NL
- ⑦ 2"/1.5" FLANGE x 2" FIP ANGLE DUAL CHECK VALVE, HHFA31-777-NL, WITH 2"x1.5" BRASS HEX BUSHING (FORD DOES NOT OFFER A 1.5" DUAL CHECK OR A COMPRESSION FITTING FOR THIS ITEM)

⑫ METER BOX COVER:  
IF LOCATED IN ASPHALT OR CONCRETE, OR ANY TRAFFIC AREA

INSTALL EAST JORDAN IRON WORKS 24" ERGO HINGED MANHOLE, PRODUCT # 00104012L02

IF NOT LOCATED IN CONCRETE OR ASPHALT (AND IN NON-TRAFFIC AREA)

IN LIEU OF ERGO YOU MAY INSTALL 30"x20" EXTENSION RING WITH 20" METER BOX FRAME/LID, FORD STYLES C3-T AND A3-T (OR OTHER BRAND EQUIVALENT) ARE BOTH ACCEPTABLE WITH PRIOR CITY APPROVAL

## **CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT**

### **STANDARD 1.5" WATER SERVICE CONNECTION**

APPROVED FOR PUBLICATION

City Engineer

Date



DWG. NO.

**4-8**

**GENERAL NOTES:**

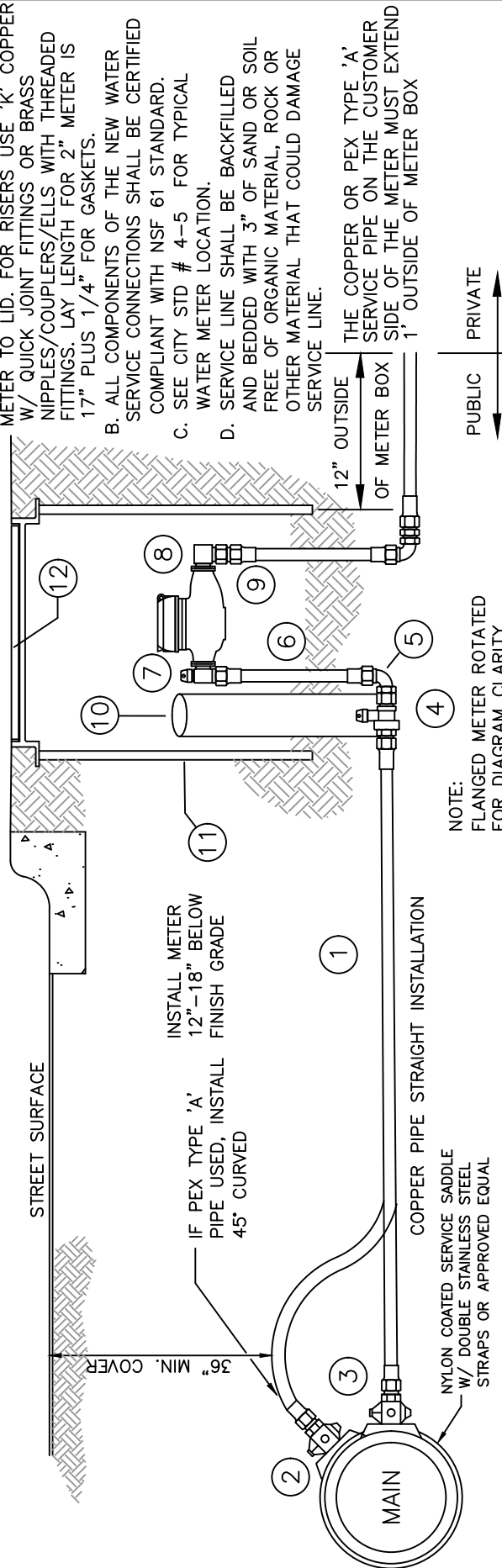
A. USE ONLY FORD FOR THE FITTINGS W/ SPECIFIED PART NUMBERS. USE NO LEAD BRASS FOR OTHER COMMON BRASS PARTS. BUILD SETTING PARALLEL TO WATER MAIN, W/ CURB STOP INSIDE METER BOX, ABOUT 18" FROM TOP OF METER TO LID. FOR RISERS USE 'K' COPPER W/ QUICK JOINT FITTINGS OR BRASS NIPPLES/COUPLERS/ELLS WITH THREADED FITTINGS. LAY LENGTH FOR 2" METER IS 17" PLUS 1/4" FOR GASKETS.

B. ALL COMPONENTS OF THE NEW WATER SERVICE CONNECTIONS SHALL BE CERTIFIED COMPLIANT WITH NSF 61 STANDARD.

C. SEE CITY STD # 4-5 FOR TYPICAL WATER METER LOCATION.

D. SERVICE LINE SHALL BE BACKFILLED AND BEDDED WITH 3" OF SAND OR SOIL FREE OF ORGANIC MATERIAL, ROCK OR OTHER MATERIAL THAT COULD DAMAGE SERVICE LINE.

THE COPPER OR PEX TYPE 'A' SERVICE PIPE ON THE CUSTOMER SIDE OF THE METER MUST EXTEND 1' OUTSIDE OF METER BOX



NOTE:  
FLANGED METER ROTATED  
FOR DIAGRAM CLARITY

NO LEAD FITTINGS OR COMPONENTS.

12 GAUGE TRACER WIRE SHALL BE INSTALLED WITH PEX SERVICE LINE, IF NOT INSTALLED AT 90° FROM WATER MAIN.

**2" SERVICE COMPONENTS**

- ① 2" US K COPPER OR IF USING PEX Type "A" PIPE MUST USE A PEX INSERT AT EVERY FITTING
- ② 2" MIPxMIP CORPORATION STOP, FB500-7-NL COMPRESSION CORPS NOT ALLOWED; MUST BE MIP TO ATTACH THE MAIN LINE TAPPING TOOL
- ③ 2" FIPxCTS QUICK JOINT COUPLING C14-77-Q-NL (ATTACH TO CORP)
- ④ 2" FIPxCTS QUICK JOINT BALL VALVE CURB STOP B41-777-Q-NL
- ⑤ 2" MIPxCTS QUICK JOINT 90 ELBOW, L84-77-Q-NL (UP OUT OF CURB STOP OR 2" BRASS STREET ELL WITH BRASS NIPPLES/COUPLER)
- ⑥ 2" FLANGE x CTS QUICK ANGLE BALL VALVE, BFA-43-777W-Q-NL, (90 DEGREES FROM CURB STOP) OR 2" FLANGE x FIP ANGLE BALL VALVE, BFA-13-777W-NL
- ⑦ 2"/1.5" FLANGE x 2" FIP ANGLE DUAL CHECK VALVE, HHFA31-777-NL, (FORD DOES NOT OFFER A COMPRESSION FITTING FOR THIS ITEM)

⑧ 2" MIPxCTS QUICK JOINT COUPLING, C84-77-Q-NL (ATTACH TO DUAL CHECK) OR BRASS NIPPLES/COUPLER

⑨ 2" CTS QUICK JOINT x CTS QUICK JOINT ELL, L44-77-Q-NL (FROM OUTLET RISER TO PIPE LEAVING BOX) OR STANDARD BRASS ELL FROM OUTLET RISER NIPPLE TO BRASS NIPPLES /COUPLER LEAVING BOX

⑩ 3" OR 4"x 2' PVC TUBE OVER CURB STOP

⑪ METER BOX 30" DIAMETER HDPE, 30" TALL

⑫ METER BOX COVER:  
IF LOCATED IN ASPHALT OR CONCRETE,  
OR ANY TRAFFIC AREA

INSTALL EAST JORDAN IRON WORKS 24" ERGO HINGED MANHOLE, PRODUCT # 00104012L02

IF NOT LOCATED IN CONCRETE OR ASPHALT  
(AND IN NON-TRAFFIC AREA)

IN LIEU OF ERGO YOU MAY INSTALL 30"x20" EXTENSION RING WITH 20" METER BOX FRAME/LID, FORD STYLES C3-T AND A3-T (OR OTHER BRAND EQUIVALENT) ARE BOTH ACCEPTABLE WITH PRIOR CITY APPROVAL

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**STANDARD 2" WATER  
SERVICE CONNECTION**



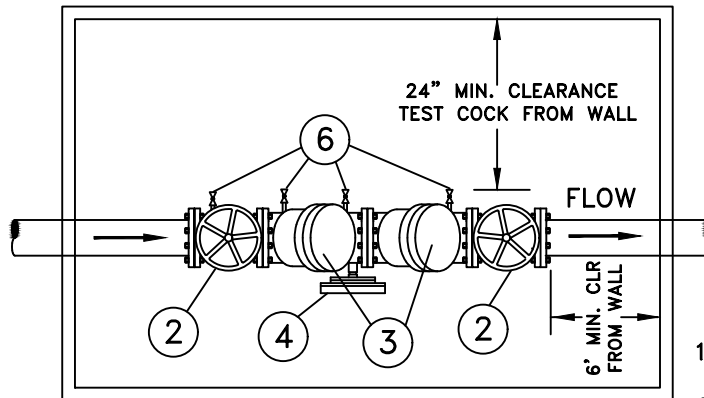
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

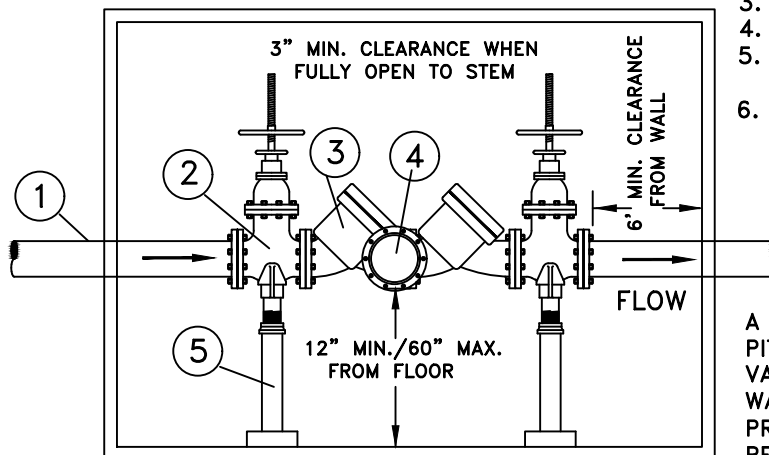
Date

**4-9**



#### REQUIRED COMPONENTS

1. PVC C900 OR CLASS 52 D.I. WALL PIPE FL X FL
2. OS & Y GATE VALVE WITH HANDWHEEL FL X FL
3. APPROVED CHECK VALVE FL X FL
4. RELIEF VALVE FL
5. SUPPORT STANDS MANATORY FOR FOR ASSEMBLIES 2.5" & LARGER
6. TEST COCKS - 4 REQUIRED



A RPBA MUST NOT BE INSTALLED IN A PIT OR BELOW GRADE WHERE THE RELIEF VALVE COULD BECOME SUBMERGED IN WATER OR WHERE FUMES COULD BE PRESENT AT THE RELIEF-VALVE DISCHARGE, BECOME SUBMERGED IN WATER OR WHERE FUMES COULD BE PRESENT AT

REFERENCE: AWWA MANUAL ON WATER SUPPLY PRACTICES M14

#### GENERAL NOTES:

- A. WHERE PIPING PASSES THROUGH VAULT WALL, PROVIDE WATERPROOF MASTIC OR FLEXIBLE SEALANT.
- B. DIAMETER OF PIPE AND FITTINGS FOR 2 1/2" OR GREATER.
- C: VAULT MUST BE EQUIPPED WITH AN ADEQUATELY SIZED FLOOR DRAIN OR SUMP PUMP.
- D. THOROUGHLY FLUSH LINES PRIOR TO INSTALLING BACKFLOW ASSEMBLY.
- E. CONCRETE PAD SHALL BE 4" THICK WITH 4" ISPCW TYPE I CRUSHED AGGREGATE
- F. A RPBA MAY PERIODICALLY DISCHARGE WATER FROM THE RELIEF VALVE. IF RP DISCHARGE IS PIPED TO A DRAIN, AN AIR-GAP SEPARATION MUST BE INSTALLED AT THE RELIEF VALVE.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### REDUCED PRESSURE BACKFLOW ASSEMBLY



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

4-11

..\\Current Stds\\4-Water\\BA-CHK3.dwg

EXTEND TRACER WIRE  
(DWG 1-8) 12" ABOVE  
GRADE & WRAP AROUND  
HYDRANT

TWO 2 1/2" HOSE  
CONNECTION W/THREADS

SEE NOTE 3

MIN 20" - MAX 24"

FLANGE ELEV.  
2" MIN to 6" MAX

TO SUIT  
TRENCH  
DEPTH

THRUST  
BLOCK

STABLE LEVEL GROUND

3' MINIMUM

1" TAP FOR  
SAMPLING  
CHLORINATION

SEE  
NOTE 6  
18"

SEE DWG NO. 4-2

SURFACE

6" FLANGED FIRE  
HYDRANT TEE

6" CLASS 350 DUCTILE IRON  
PIPE CUT TO LENGTH; IF OVER  
100' IN LENGTH, 8" PIPE REQUIRED

6" GATE VALVE, FL X MJ

NO SERVICE CONNECTION ALLOWED

4"x8"x16" CONCRETE BLOCK  
HYDRANT SHOE

PLASTIC BARRIER BETWEEN  
THRUST BLOCK & TEE

BACKFILL TO TOP OF DRAIN RING HOUSING

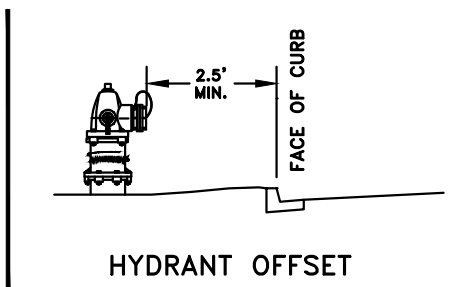
BOLTS WITH 3 CUBIC FEET OF WASHED ROCK

6' x 6' SHEET OF 11 MIL. PLASTIC OR  
CONSTRUCTION FABRIC, COVERING 2" WASHED ROCK

CONCRETE THRUST BLOCK  
CAST-IN-PLACE AGAINST  
FITTING ONLY

# NOTES:

1. FIRE HYDRANT SHALL BE YELLOW WATEROUS PACER W/ 16" UPPER STANDPIPE, UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
2. NO SERVICE CONNECTION ALLOWED ON HYDRANT BRANCH PIPE.
3. HARRINGTON STORZ ADAPTER (4 1/2" NH x 5" STORZ) AND BLIND CAP (5" STORZ) W/ AIRCRAFT CABLE AT THE 4 1/2" PUMPER NOZZLE.
4. FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
5. A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED STABLE LEVEL WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS AND NOT WITHIN HIGH WATER AREA.
6. GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.



## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### FIRE HYDRANT W/ SHUT-OFF VALVE



APPROVED FOR PUBLICATION

DWG. NO.

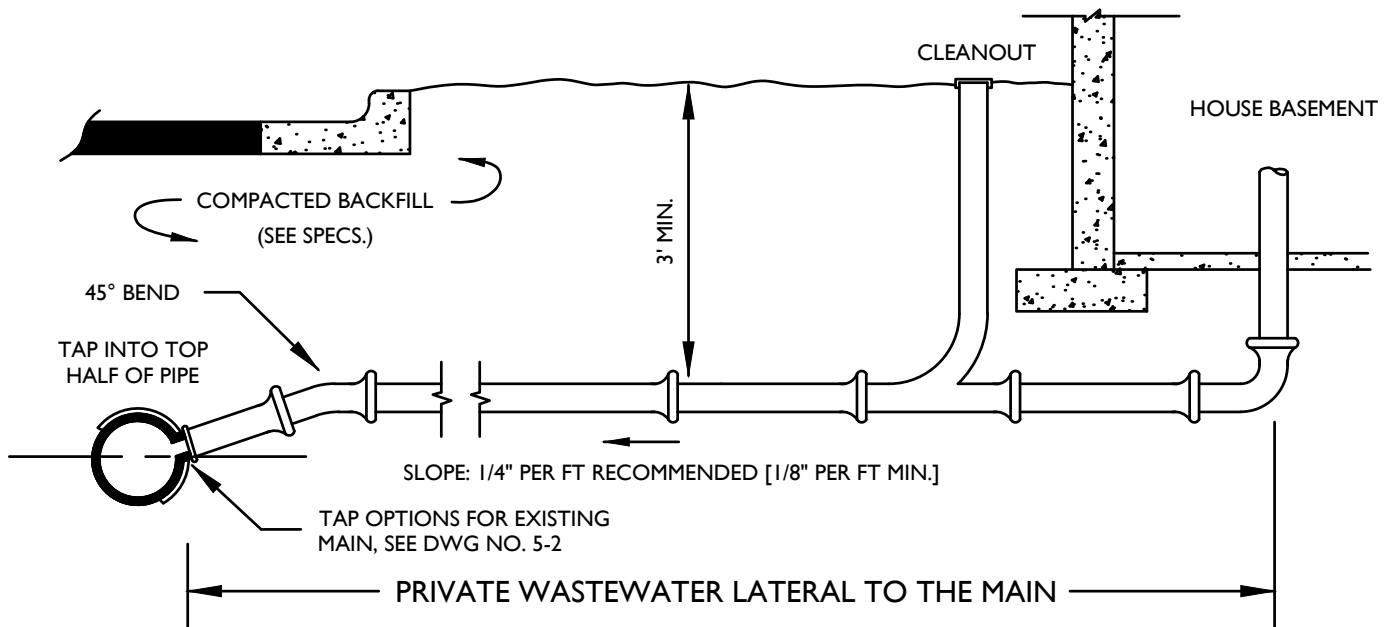
City Engineer

Date

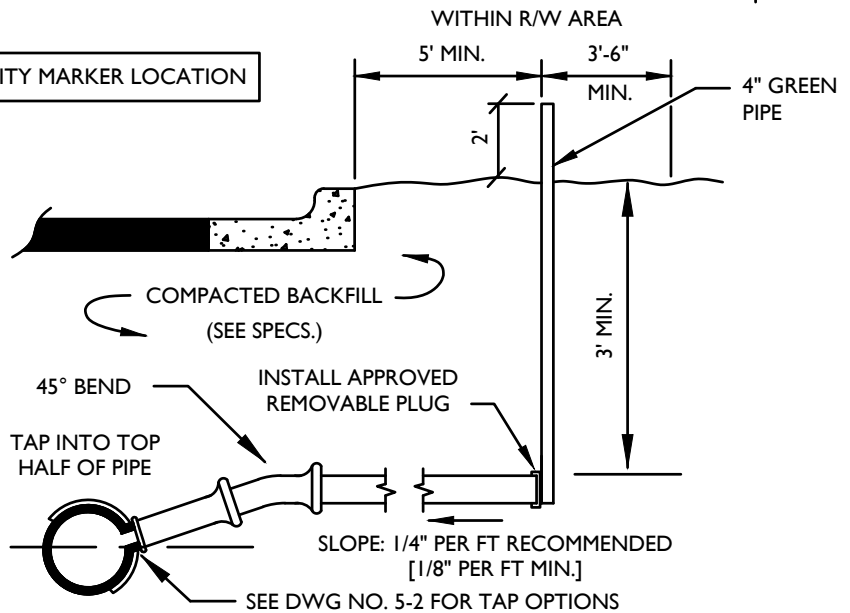
4-12

PROPERTY OWNER IS RESPONSIBLE FOR THE  
WASTEWATER LATERAL INCLUDING THE TAP  
TO THE MAIN.

# GENERAL LAYOUT



## UTILITY MARKER LOCATION



### NOTE:

1. WASTEWATER SERVICE LATERALS SHALL BE CONNECTED TO SANITARY MAIN AT A POINT ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE BUT NOT DIRECTLY TO THE TOP OF THE MAIN.
2. ALL CONNECTIONS AND WASTEWATER LINES CONNECTING WITH THE PUBLIC SYSTEM SHALL BE WATERTIGHT AND NO LESS THAN 4" IN DIAMETER FOR ALL NEW CONNECTIONS EXCEPT FOR 2" DIAMETER PRESSURE CONNECTIONS TO GRAVITY MAINS.
3. FLOOR DRAINS SUBJECT TO BACK PRESSURE OR BASEMENT DRAINS LESS THAN 1' ABOVE THE NEAREST ADJACENT SEWER MANHOLE SHALL BE EQUIPPED WITH AN APPROVED BACKWATER VALVE (SEE CITY SEC. 36-43).

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### WASTEWATER PRIVATE SERVICE CONNECTION



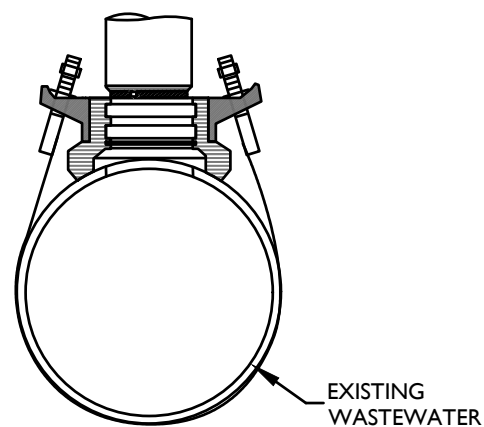
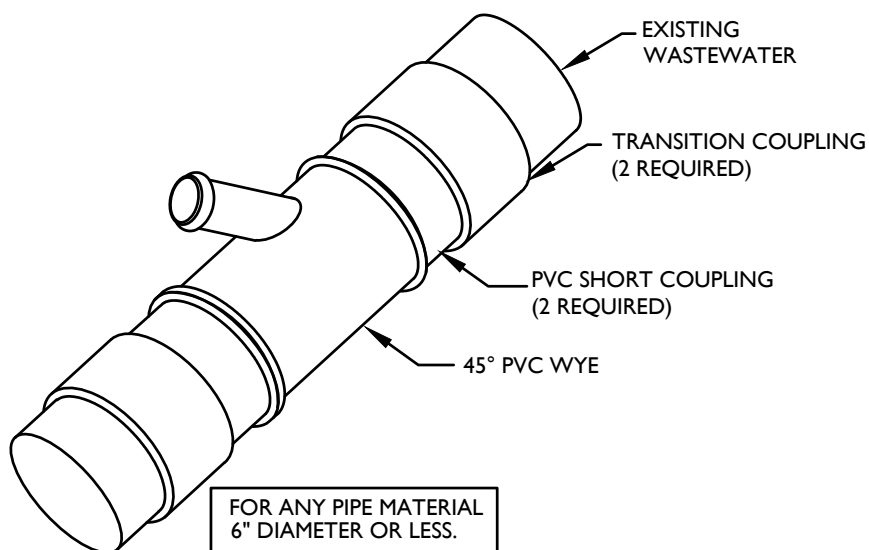
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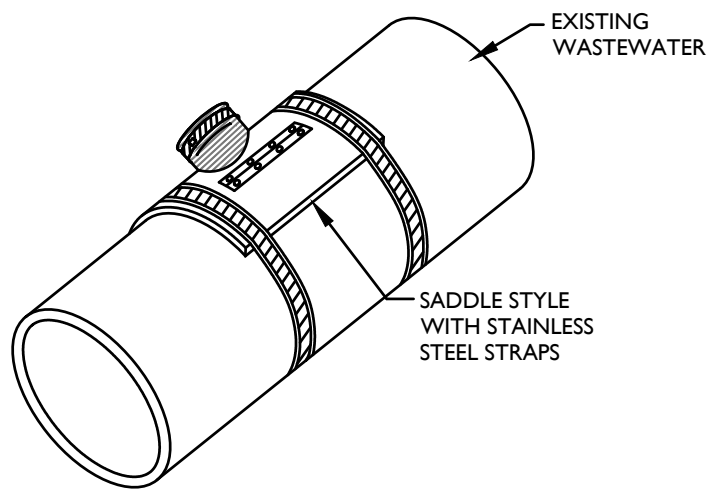
City Engineer

Date

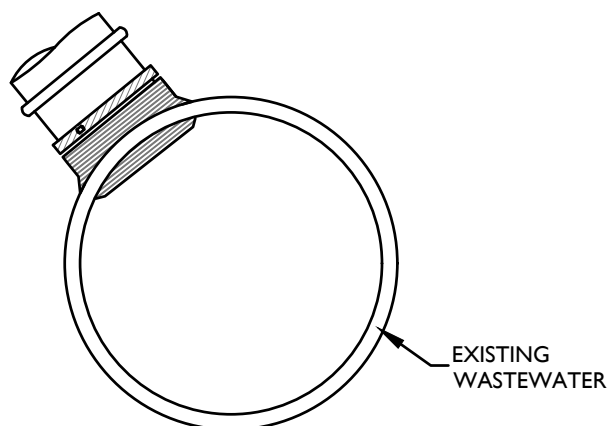
5-1



**ROMAC® CB COMPONENTS INCLUDE:**  
 -DUCTILE IRON SADDLE  
 -RUBBER OUTLET GASKET  
 -STAINLESS STEEL STRAP WITH BOLT



FOR CLAY PIPES ONLY. MUST OBTAIN THE CITY ENGINEER'S WRITTEN APPROVAL FOR USE ON OTHER MATERIAL PIPES.



**INSERTA TEE® COMPONENTS INCLUDE:**  
 -PVC HUB (SIZED FOR LATERAL & PIPE TYPE)  
 -RUBBER SLEEVE PIPE ADAPTER WITH HOSE CLAMP

## NOTES

1. WASTEWATER SERVICE LATERALS SHALL BE CONNECTED TO SANITARY MAIN AT A POINT ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE BUT NOT DIRECTLY TO THE TOP OF THE MAIN.
2. FOR SANITARY MAIN PIPE OF 6" DIAMETER AND LARGER USE ROMAC STYLE 'CB' WASTEWATER SADDLE.
3. RUBBER FERNCO TYPE COUPLINGS ONLY ALLOWED WITH APPROVAL FROM THE CITY ENGINEER.
4. ROMAC SADDLES NOT ALLOWED ON CLAY PIPE.
5. WHEN CUTTING EXISTING SANITARY MAINS, USE A CUTTER THAT MEETS MANUFACTURER RECOMMENDATIONS.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### WASTEWATER SERVICE TAP OPTIONS DETAIL



APPROVED FOR PUBLICATION

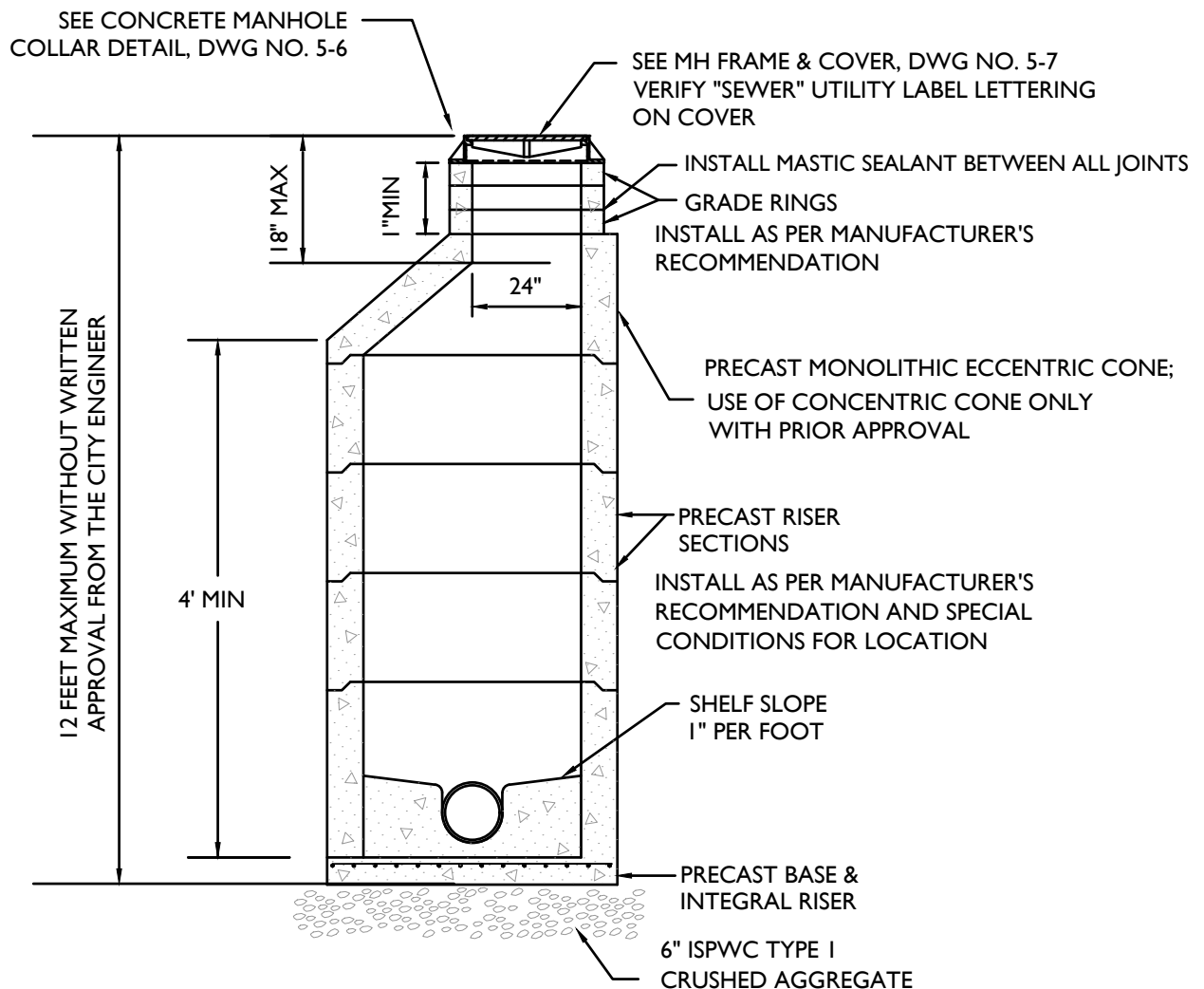
DWG. NO.

City Engineer

Date

**5-2**





## NOTES

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE (IF PRESENT).
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
3. CONNECTION TO MANHOLE SHALL BE MADE USING RESILIENT CONNECTOR CONFORMING TO ASTM C-923 SUCH AS KOR-N-SEAL, A-LOK, OR APPROVED EQUAL.
4. RISERS, UNIT SECTIONS, AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
5. PRESSURE TESTING IS REQUIRED FOR ALL INSTALLATIONS.
6. SEE DWG NO 5-6 FOR CONCRETE MANHOLE COLLAR.
7. MAXIMUM SPACING BETWEEN MANHOLES IS 400 FEET.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### WASTEWATER TYPE I MANHOLE



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

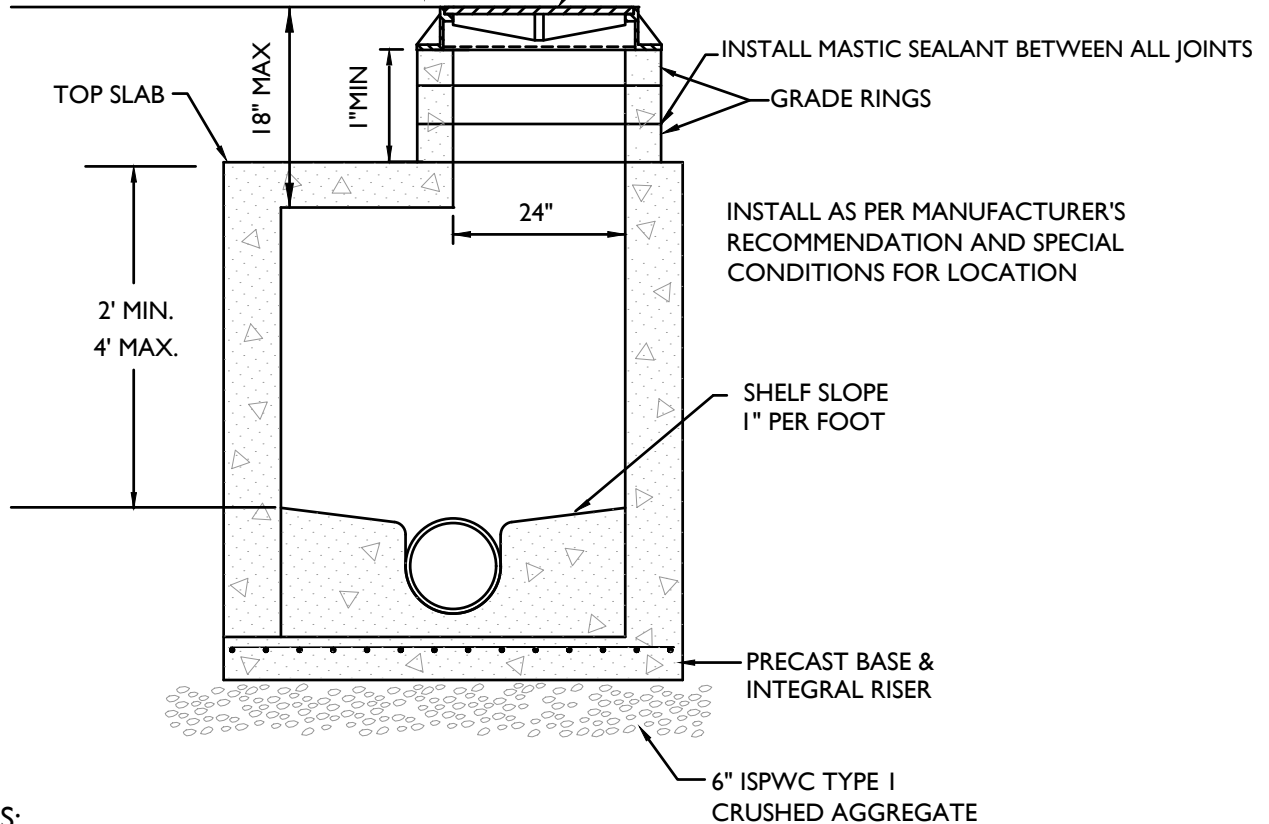
Date

5-3



SEE CONCRETE MANHOLE  
COLLAR DETAIL, DWG NO. 5-6

SEE MH FRAME & COVER, DWG NO. 5-7  
VERIFY "SEWER" UTILITY LABEL LETTERING  
ON COVER.



#### NOTES:

1. INSTALLATION OF FLAT TOP SLABS MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER.
2. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443. LIFT HOLES TO BE GROUTED FROM THE OUTSIDE & INSIDE OF THE MANHOLE (IF PRESENT).
3. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
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5. RISERS, UNIT SECTIONS, AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
6. PRESSURE TESTING IS REQUIRED FOR ALL INSTALLATIONS.
7. SEE DWG NO. 5-6 FOR CONCRETE MANHOLE COLLAR.
8. PIPES SHALL BE FLUSH WITH THE INSIDE WALL OF MANHOLE AND GROUTED ALL AROUND.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### WASTEWATER TYPE IA MANHOLE (SHALLOW MANHOLE)



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

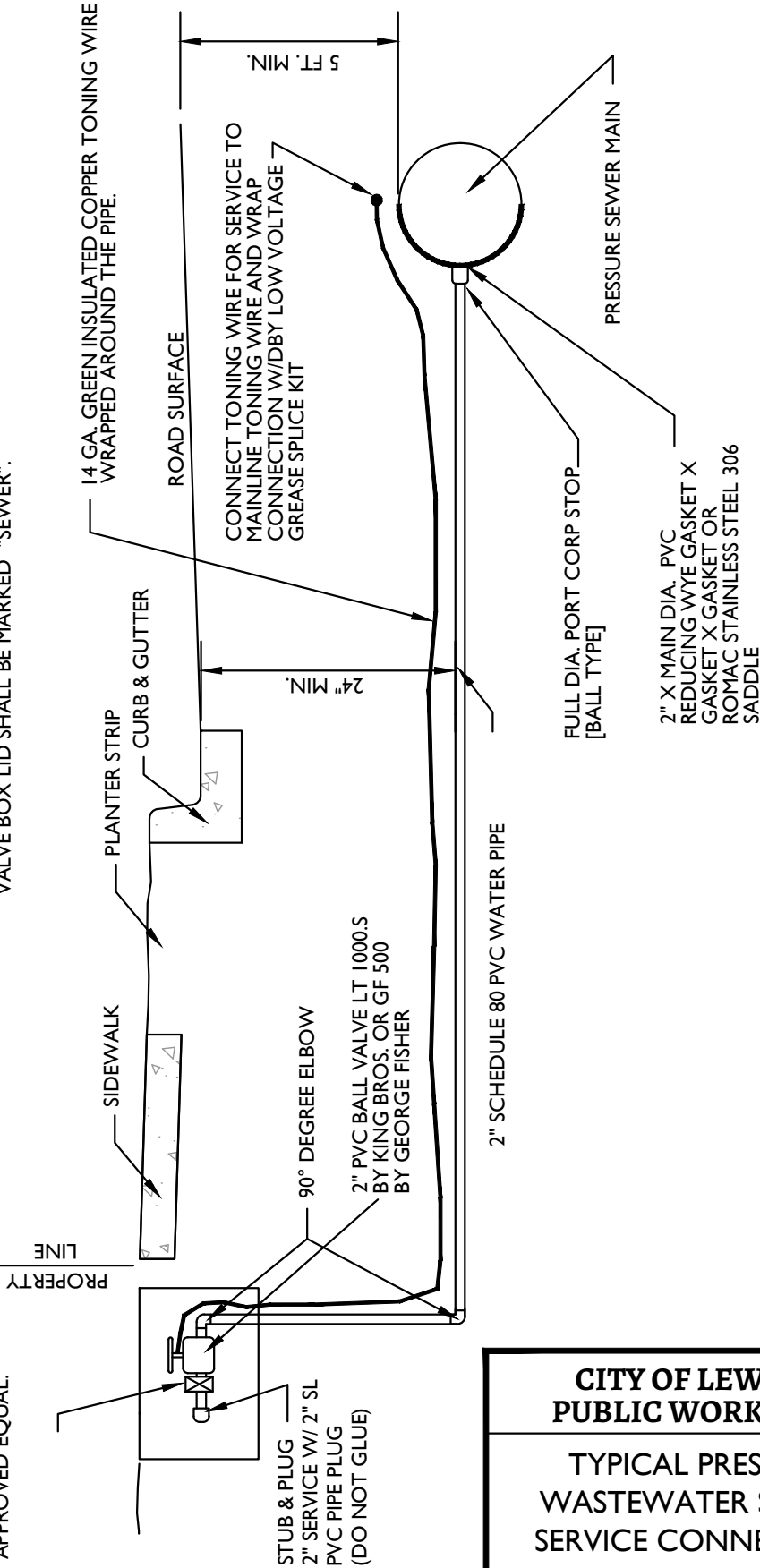
Date

5-4

# PRIVATE WASTEWATER SERVICE FROM MAIN

REMOVE PLUG AND INSTALL KING BROS. MODEL KSC 1000-S PVC SWING CHECK VALVE OR APPROVED EQUAL.

SERVICE BOX-CARSON INDUSTRIES MODEL NO. 1419 WITH BOLTED, FLAT COVER AND NO. 1419 EXTENSION WHEN IN NON-TRAFFIC AREAS. VALVE BOX LID SHALL BE MARKED "SEWER".



## NOTE:

1. WASTEWATER PRESSURE SERVICE LATERAL CAN BE CONNECTED TO WASTEWATER MAIN AT THE VERTICAL CENTERLINE OF THE PIPE, BUT NOT DIRECTLY TO THE TOP OF THE MAIN.
2. FILL SERVICE BOX WITH FIBERGLASS INSULATION AT TIME OF ON-SITE CONNECTION TO THE STUB.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### TYPICAL PRESSURE WASTEWATER SYSTEM SERVICE CONNECTION



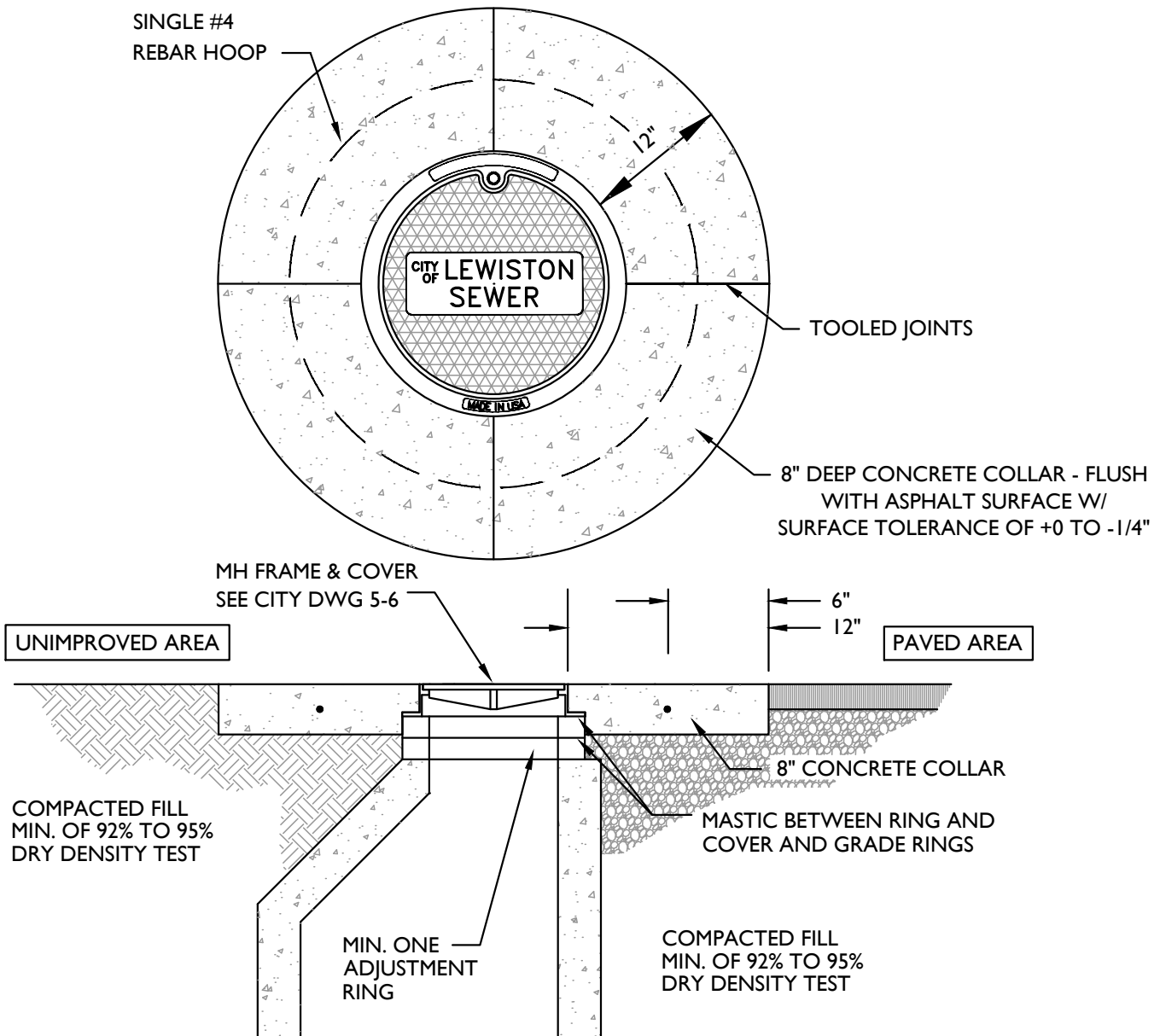
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

5-5



**NOTES:**

1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 8" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
2. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP, AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
4. UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH WHERE POSSIBLE.

SIMILAR TO CITY STD NO. 6-4

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**WASTEWATER  
CONCRETE  
MANHOLE COLLAR**



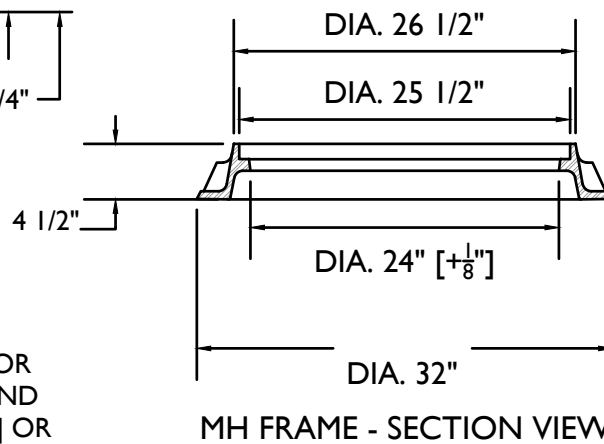
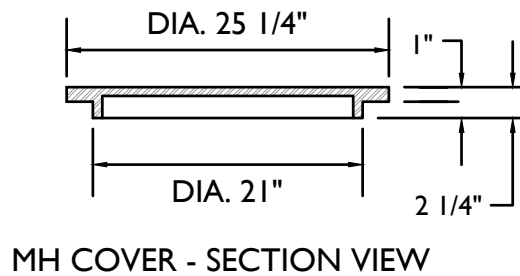
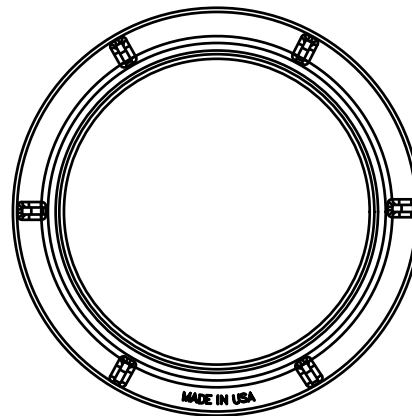
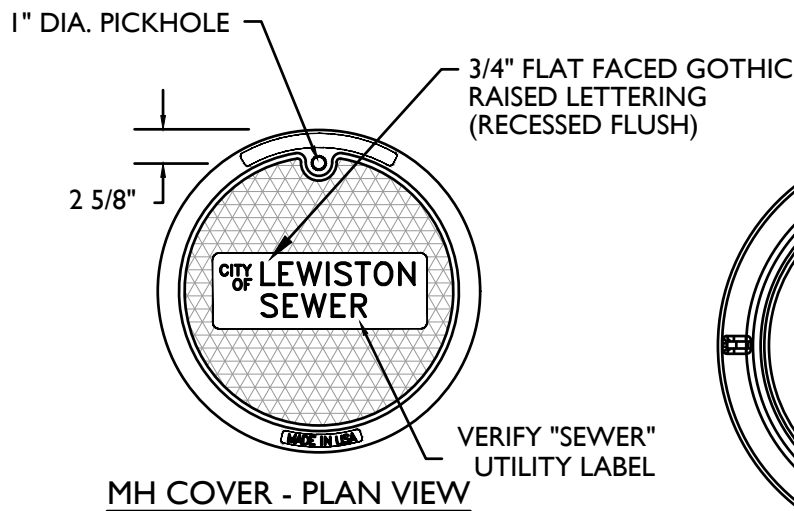
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**5-6**



#### NOTES:

1. MANHOLE FRAME [D&L FOUNDRY A-2003 OR EAST JORDON IRON WORKS #00184811] AND COVER [EJIW #00184849 OR D&L A-2010-01] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE CITY ENGINEER; VERIFY "SEWER" UTILITY LABEL LETTERING ON COVER.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B).
3. IN AREAS OF HIGH STORM WATER INFILTRATION, LIDS SHALL BE GASKETED AND BOLTED.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### WASTEWATER MANHOLE FRAME AND COVER



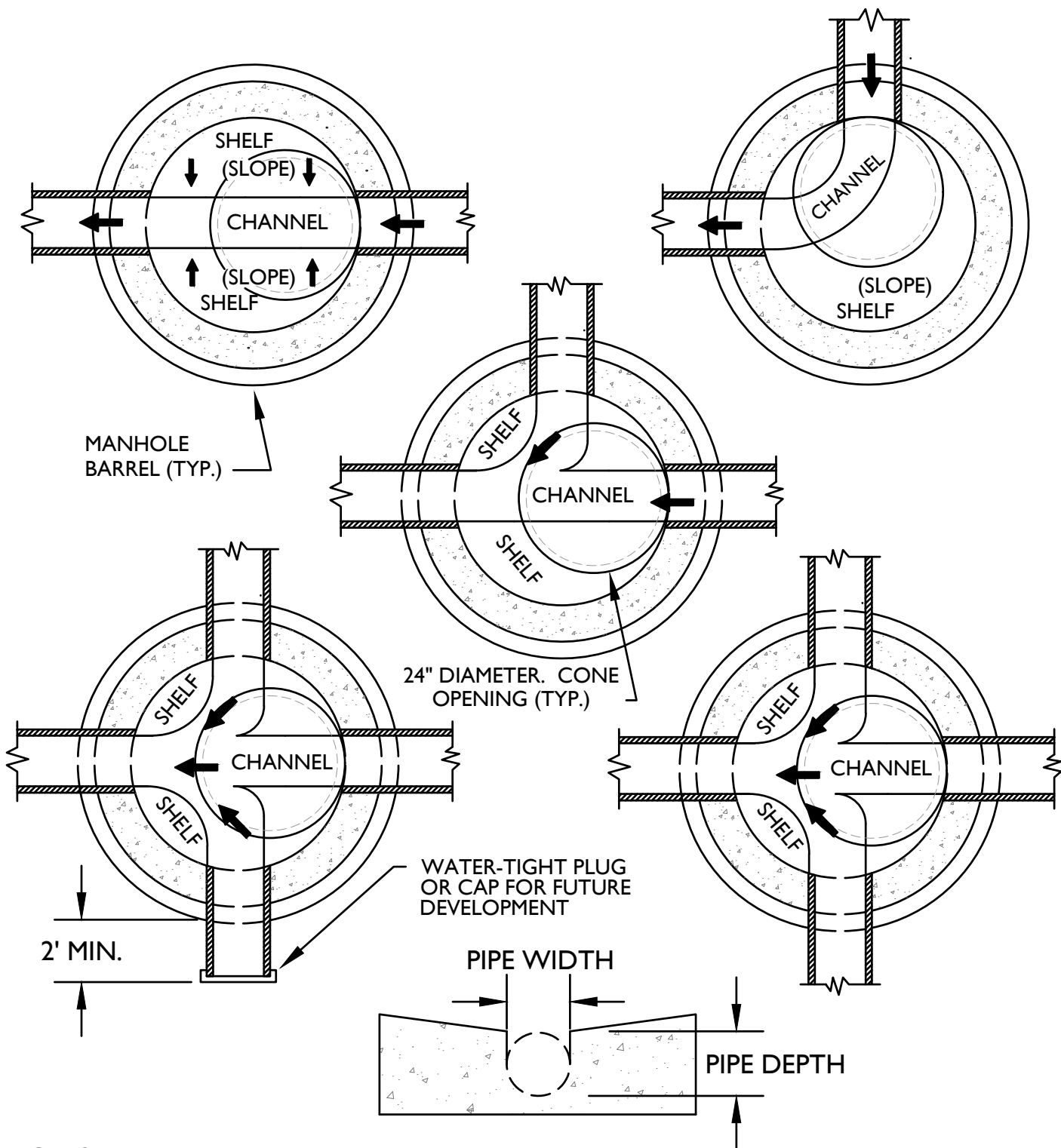
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

5-7



# NOTES

1. SLOPE ALL SHELVES TO CHANNEL AT 1:12.
2. SEE PLAN & PROFILE SHEETS FOR SLOPE OF CHANNEL.
3. FOR PIPES OF DIFFERENT SIZES, THE TOP OF PIPE (CROWN) SHALL BE AT THE SAME ELEVATION.
4. OFFSET CONE'S 24" DIAMETER OPENING CENTERED OVER UPSTREAM PIPE'S INVERT.

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### WASTEWATER MANHOLE CHANNEL DETAIL



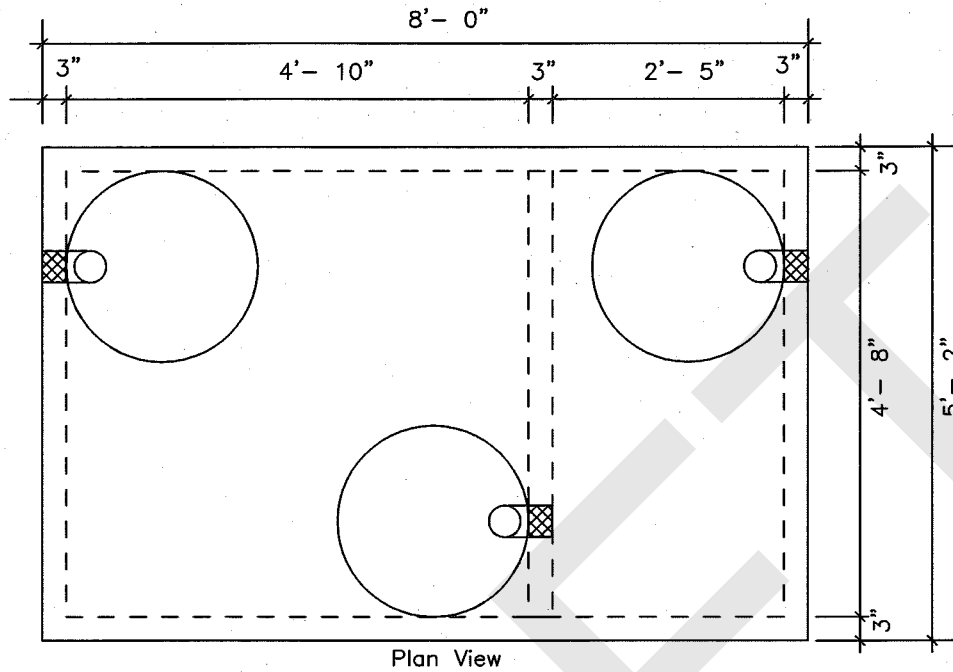
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DWG. NO.

City Engineer

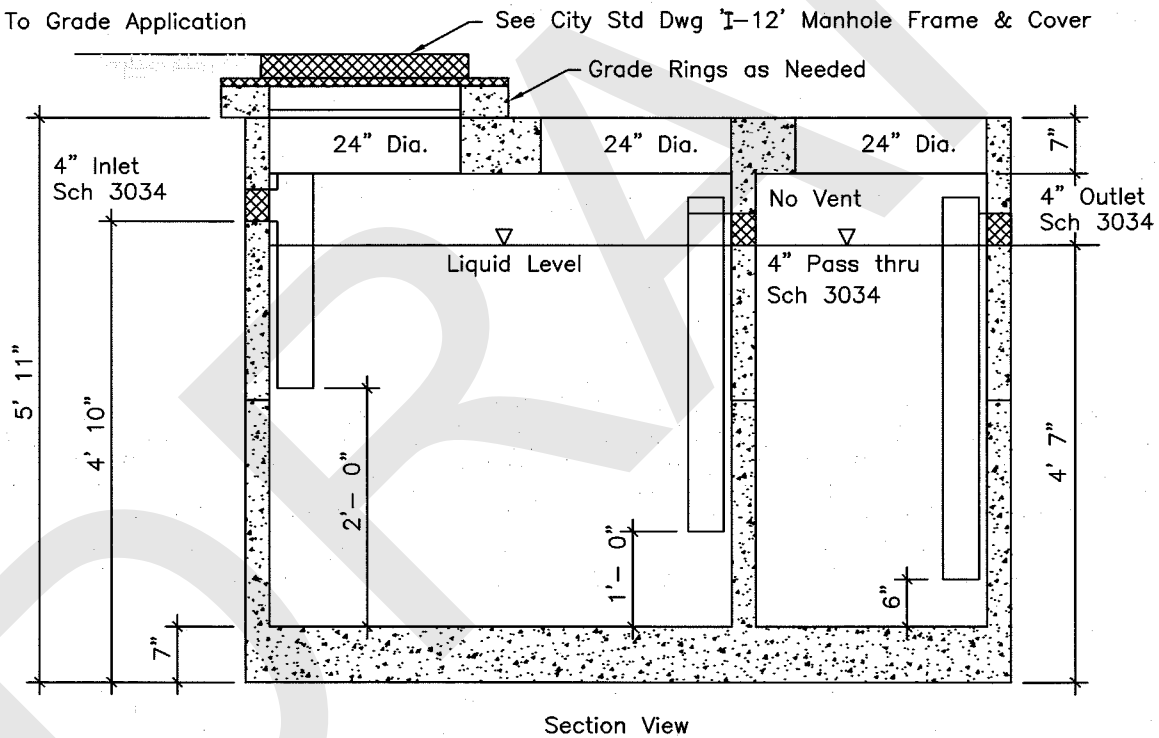
Date

5-8



TYPICAL:

To Grade Application



Reinforcing:

#4 Bars @ 12" O.C. Lengthwise. in Top

#5 Bars @ 9" O.C. Widthwise in Top

6x6 10 Ga. Wire Mesh in Sides & Bottom

(WILBERT PRECAST PRODUCT #1627M G/I -  
1653TB - HEAVY LOAD OPTION OR  
APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

1000 GALLON  
GREASE INTERCEPTOR

APPROVED FOR PUBLICATION

*Shawn Stith* 6/2/10  
City Engineer Date

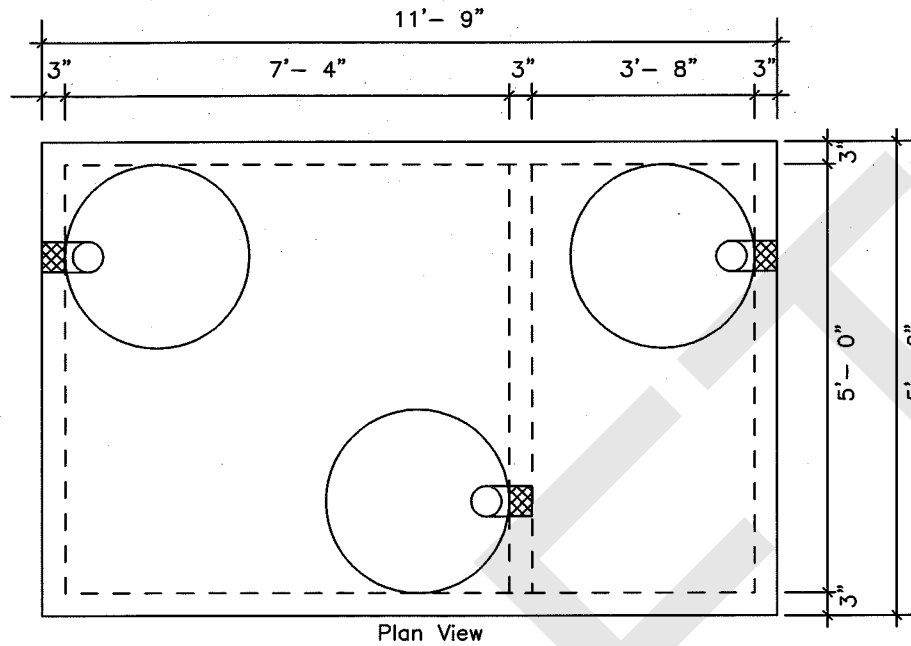
DWG. NO.

I-1

\\Standards\\2010-Standards\\5-SanitarySewer\\I-1-I-1.dwg

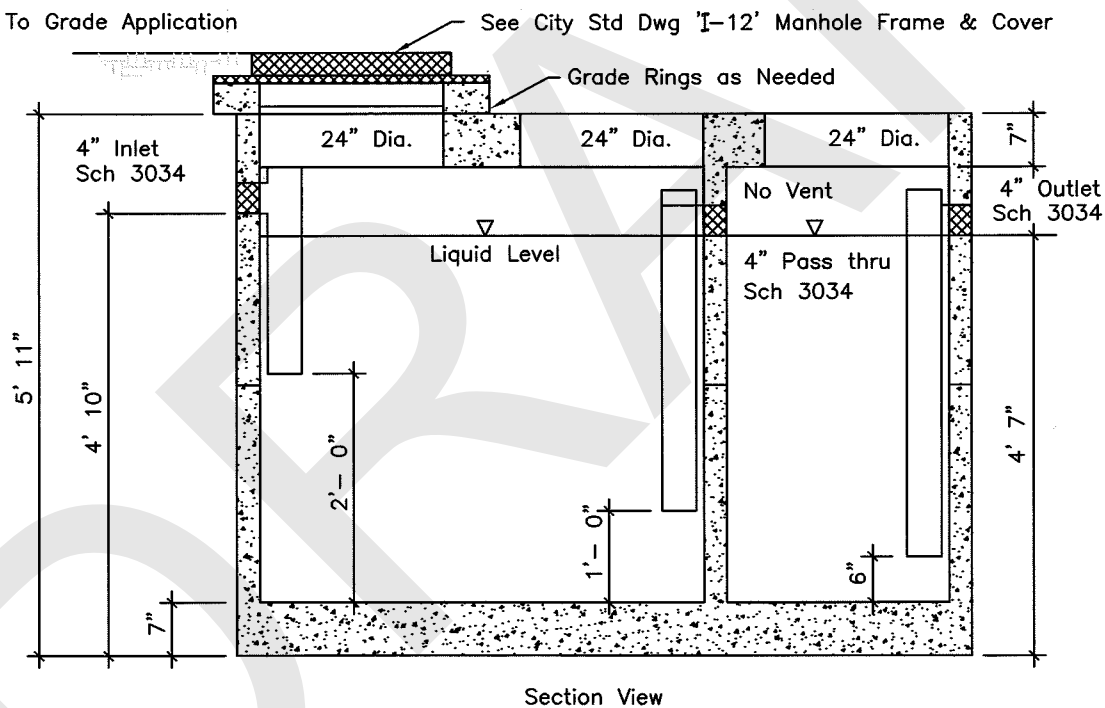






TYPICAL:

To Grade Application



Reinforcing:

#4 Bars @ 12" O.C. Lengthwise. in Top

#5 Bars @ 9" O.C. Widthwise in Top

6x6 10 Ga. Wire Mesh in Sides & Bottom

(WILBERT PRECAST PRODUCT #

1634M G/I - 1654TB - HEAVY LOAD OPTION OR  
APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

1500 GALLON  
GREASE INTERCEPTOR

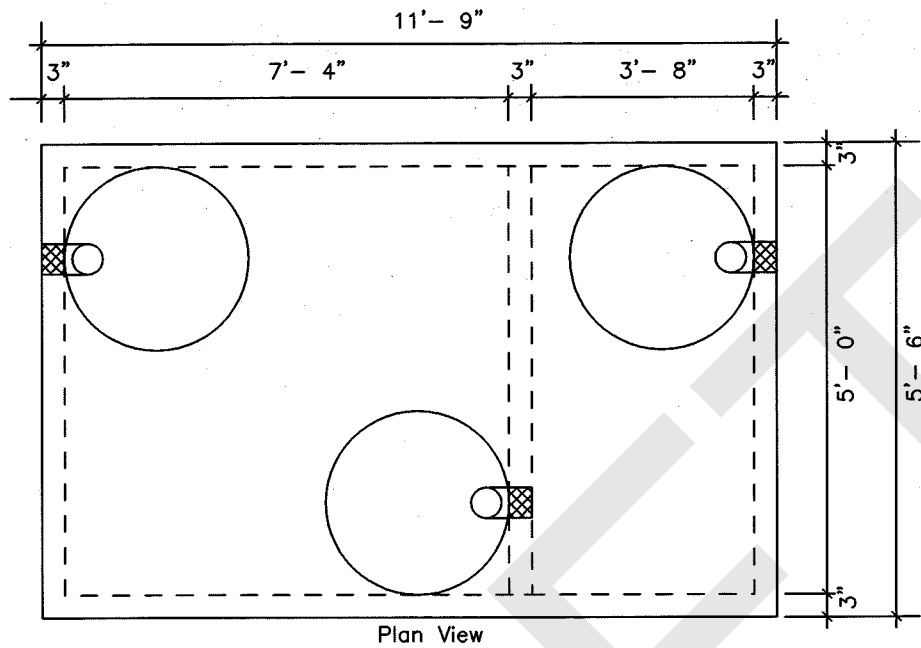
APPROVED FOR PUBLICATION

*Shawn Stille* 6/2/10  
City Engineer Date

DWG. NO.

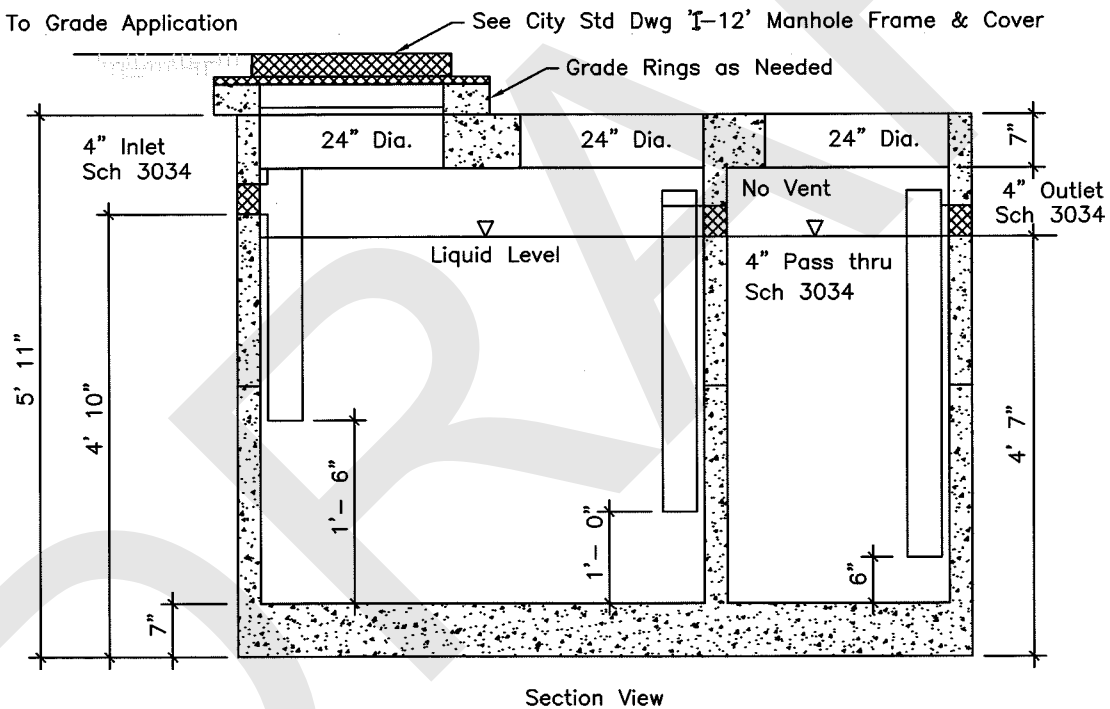
I-3

\\Standards\2010-Standards\5-SanitarySewer\I-1-I-1.dwg



TYPICAL:

To Grade Application



Reinforcing:

#4 Bars @ 12" O.C. Lengthwise. in Top  
 #5 Bars @ 9" O.C. Widthwise in Top  
 6x6 10 Ga. Wire Mesh in Sides & Bottom

(WILBERT PRECAST PRODUCT #  
 1634M S/OW - 1654TB - HEAVY LOAD OPTION OR  
 APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
 PUBLIC WORKS DEPARTMENT

1500 GALLON  
 SAND OIL/WATER  
 SEPARATOR

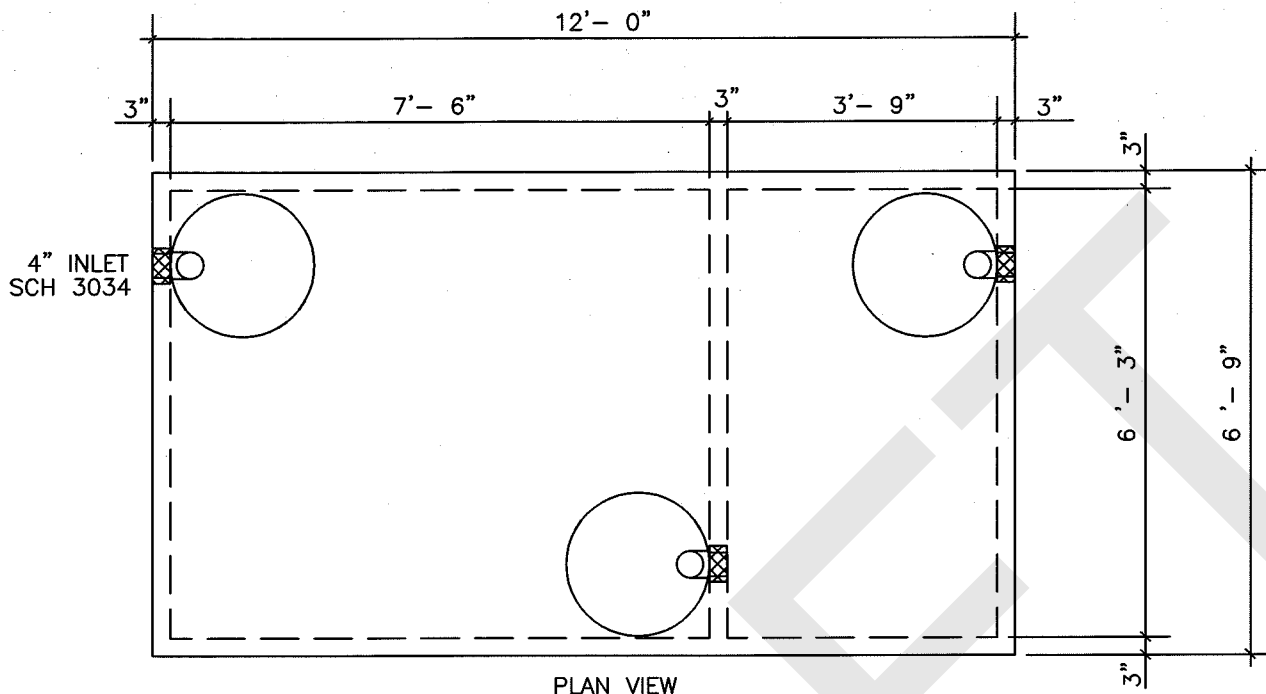
APPROVED FOR PUBLICATION

*Shawn Stillew* 6/2/10  
 City Engineer Date

DWG. NO.

I-4

\\Standards\\2010-Standards\\5-SanitarySewer\\I-1-I-1.dwg

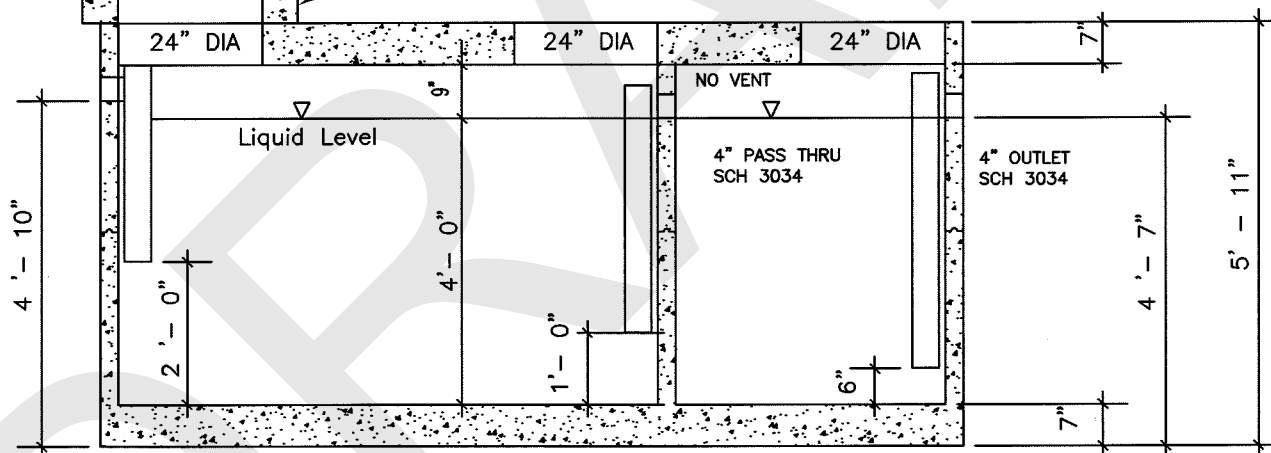


TYPICAL:

To Grade Application

See City Std Dwg 'I-12' Manhole Frame & Cover

Grade Rings as Needed



NOTES:

1. 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL @ JOINT
2. REINFORCEMENT:  
TOP AND BOTTOM: #4 @ 4" O.C.E.W.  
SIDES: #4 @ 4" O.C.E.W.
3. SUITABLE FOR TRAFFIC SITUATIONS

(WILBERT PRECAST PRODUCT #  
1638 G/I - 1654TB - HEAVY LOAD OPTION  
OR APPROVED EQUIVALENT)

\\Standards\2010-Standards\5-SanitarySewer\I-1-I-1.dwg

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

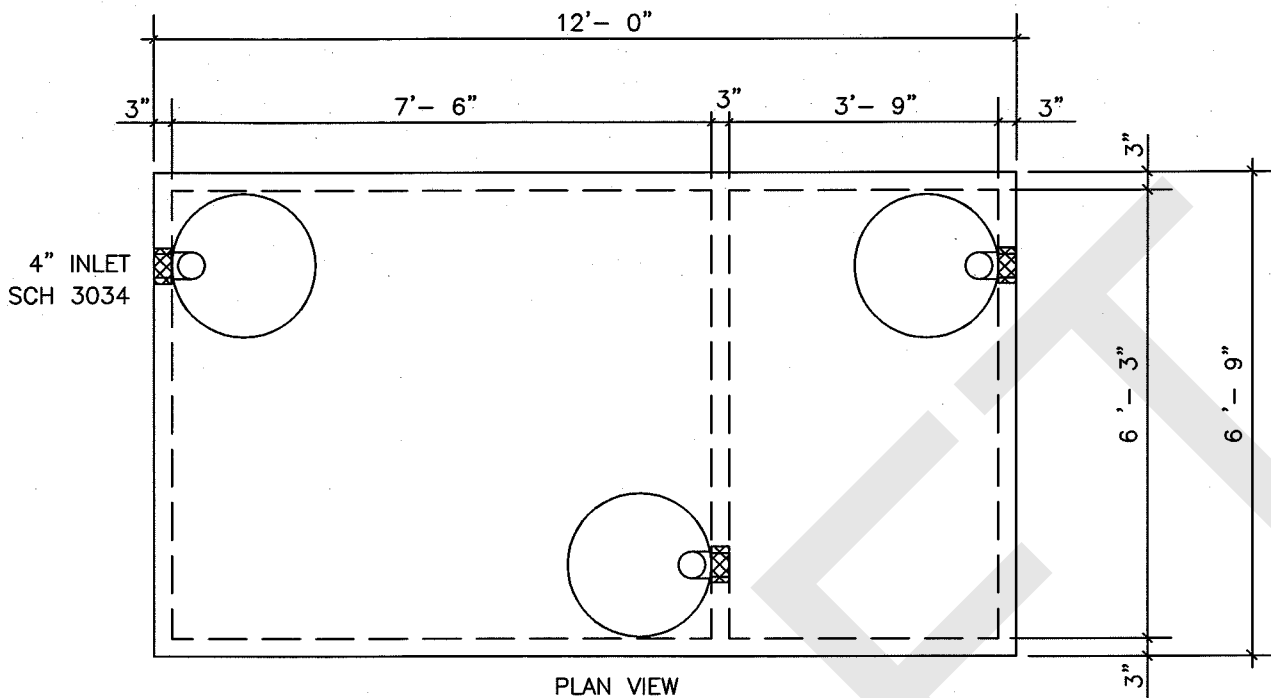
2000 GALLON  
GREASE INTERCEPTOR

APPROVED FOR PUBLICATION

*Shawn Stuber* 6/2/10  
City Engineer Date

DWG. NO.

I-5

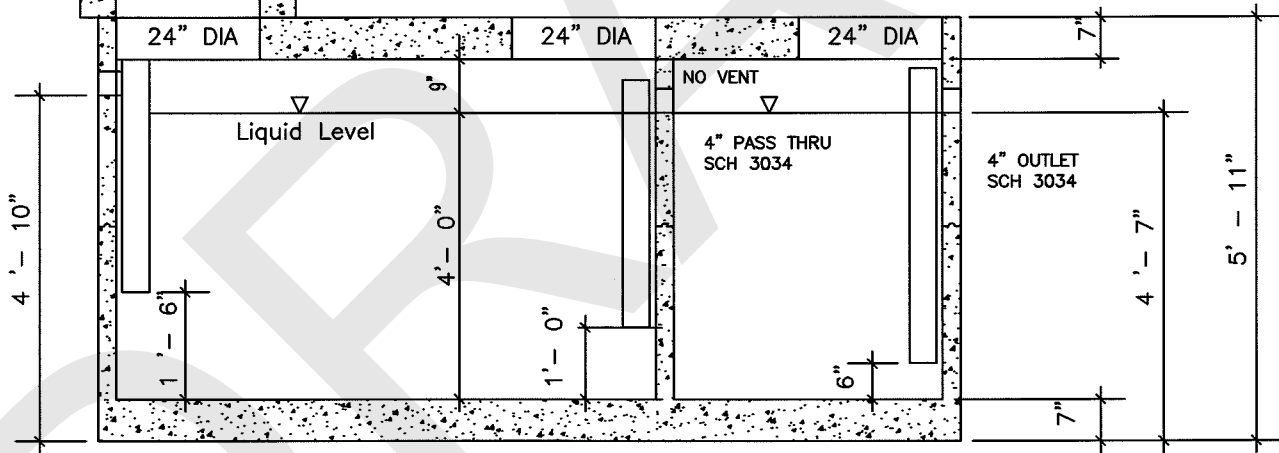


TYPICAL:

To Grade Application

See City Std Dwg 'I-12' Manhole Frame & Cover

Grade Rings as Needed



#### NOTES:

1. 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL @ JOINT
2. REINFORCEMENT:  
TOP AND BOTTOM: #4 @ 4" O.C.E.W.  
SIDES: #4 @ 4" O.C.E.W.
3. SUITABLE FOR TRAFFIC SITUATIONS

(WILBERT PRECAST PRODUCT #  
1638 S/OW - 1654TB - HEAVY LOAD OPTION OR  
APPROVED EQUIVALENT)

\\Standards\\2010-Standards\\5-SanitarySewer\\I-1-I-1.dwg

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

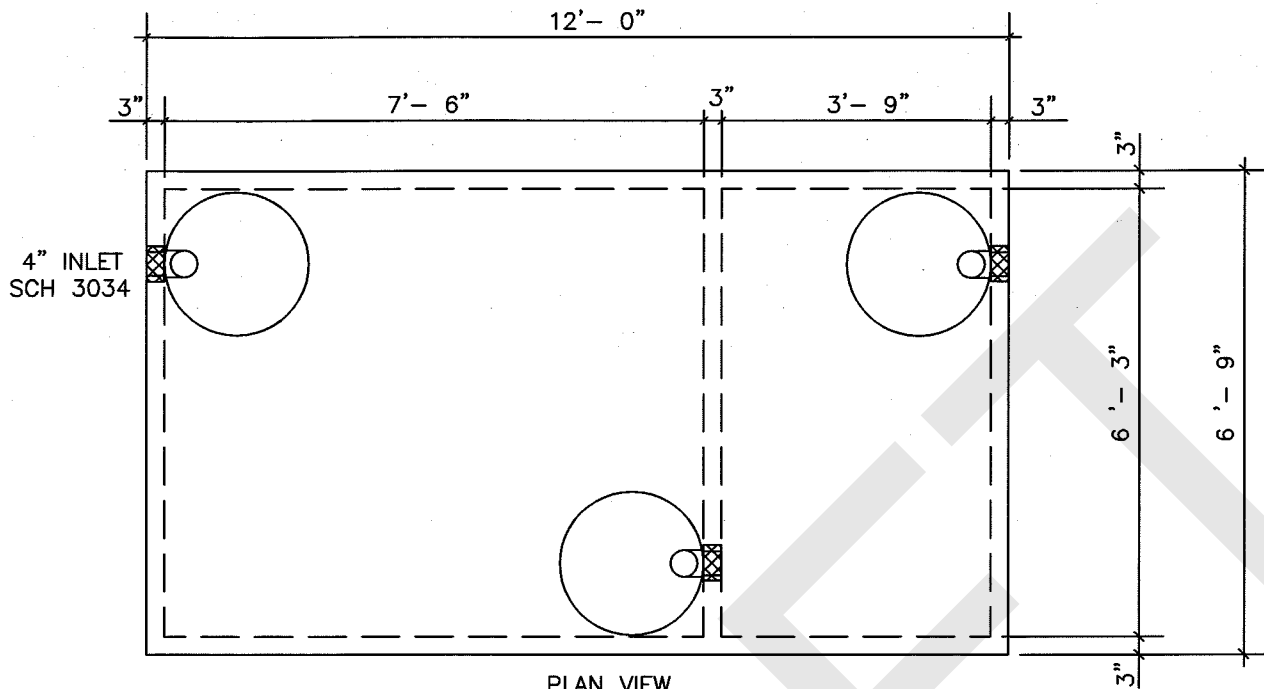
2000 GALLON  
SAND OIL/WATER  
SEPARATOR

APPROVED FOR PUBLICATION

*Deann Stubbins* 6/2/10  
City Engineer Date

DWG. NO.

I-6



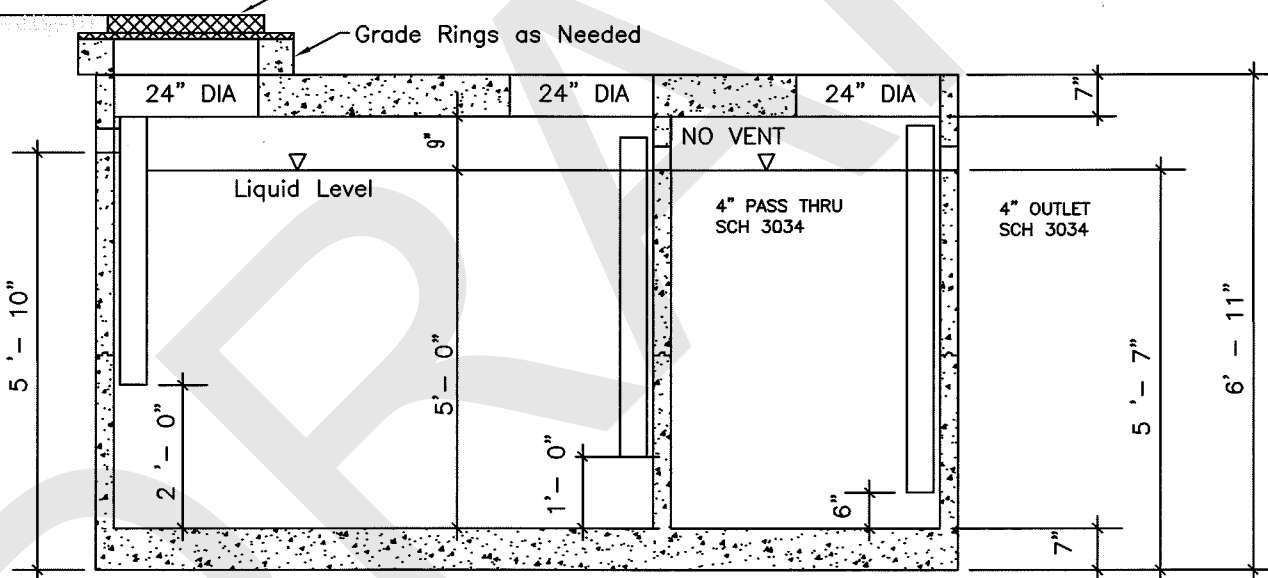
PLAN VIEW

TYPICAL:

To Grade Application

See City Std Dwg 'I-12' Manhole Frame & Cover

Grade Rings as Needed



SECTION VIEW

NOTES:

1. 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL @ JOINT
2. REINFORCEMENT:  
TOP AND BOTTOM: #4 @ 4" O.C.E.W.  
SIDES: #4 @ 4" O.C.E.W.
3. SUITABLE FOR TRAFFIC SITUATIONS

(WILBERT PRECAST PRODUCT #  
1641 G/I - 1654TB - HEAVY LOAD OPTION OR  
APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

2500 GALLON  
GREASE INTERCEPTOR

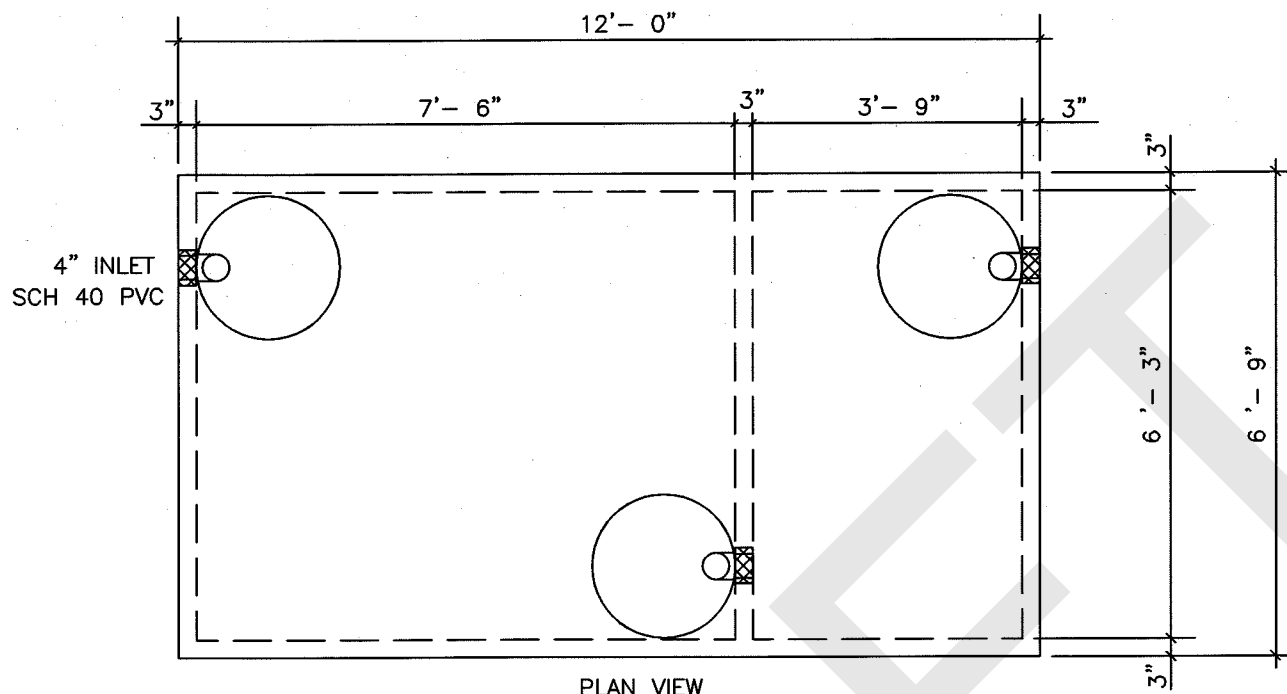
APPROVED FOR PUBLICATION

*Shawn Stiller* 6/2/10  
City Engineer Date

DWG. NO.

I-7

\\Standards\\2010-Standards\\5-SanitarySewer\\I-1-I-1.dwg



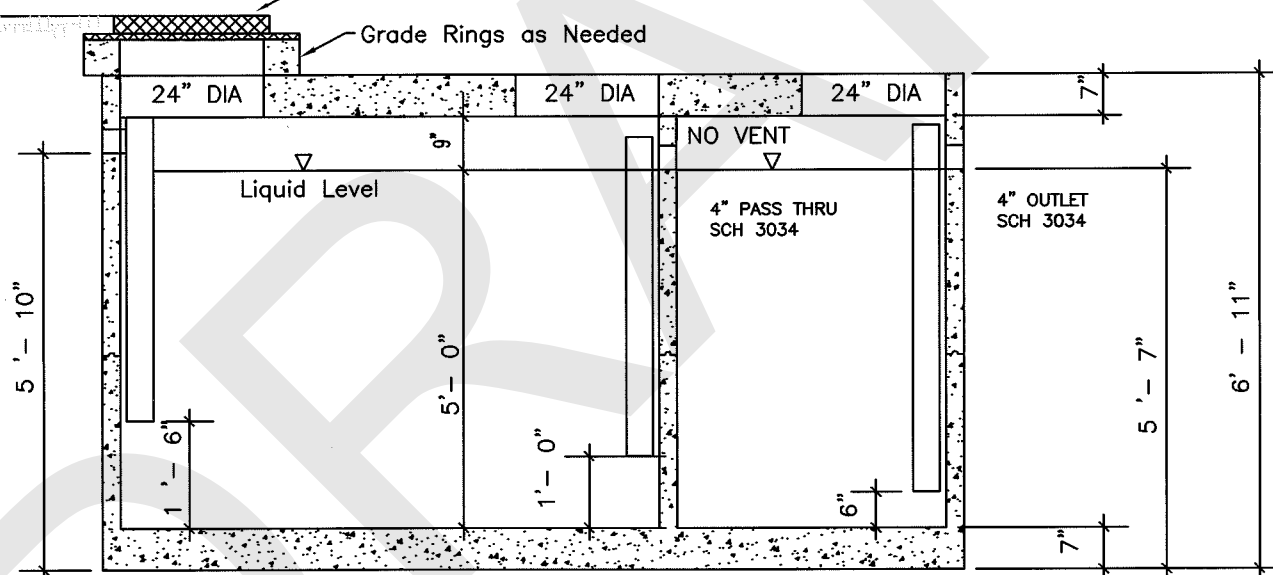
PLAN VIEW

**TYPICAL:**

### To Grade Application

See City Std Dwg 'I-12' Manhole Frame & Cover

- Grade Rings as Needed



SECTION VIEW

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

# 2500 GALLON SAND OIL/WATER SEPARATOR

**APPROVED FOR PUBLICATION**

City Engineer Glenn Stubbey Date 6/2/10

DWG. NO.

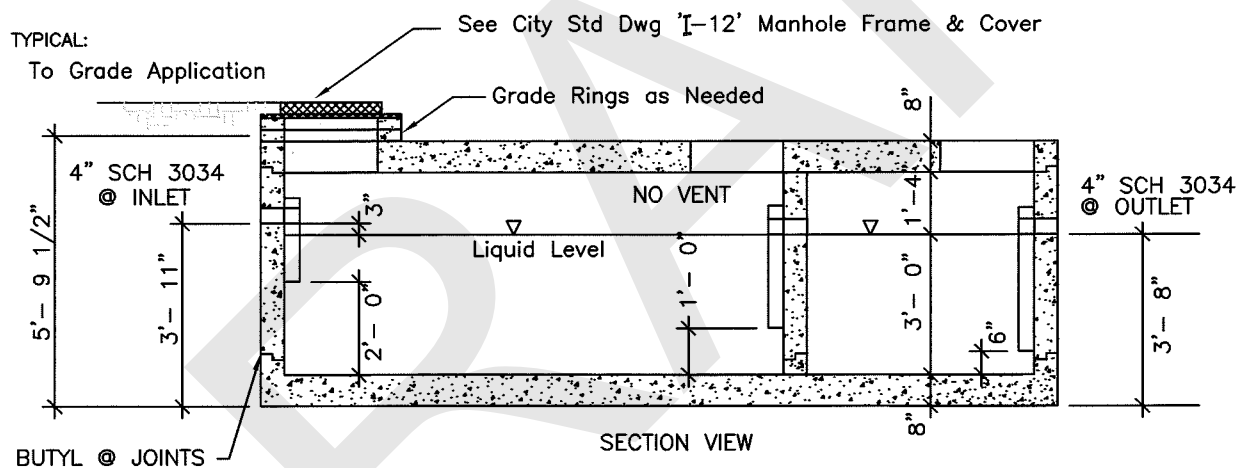
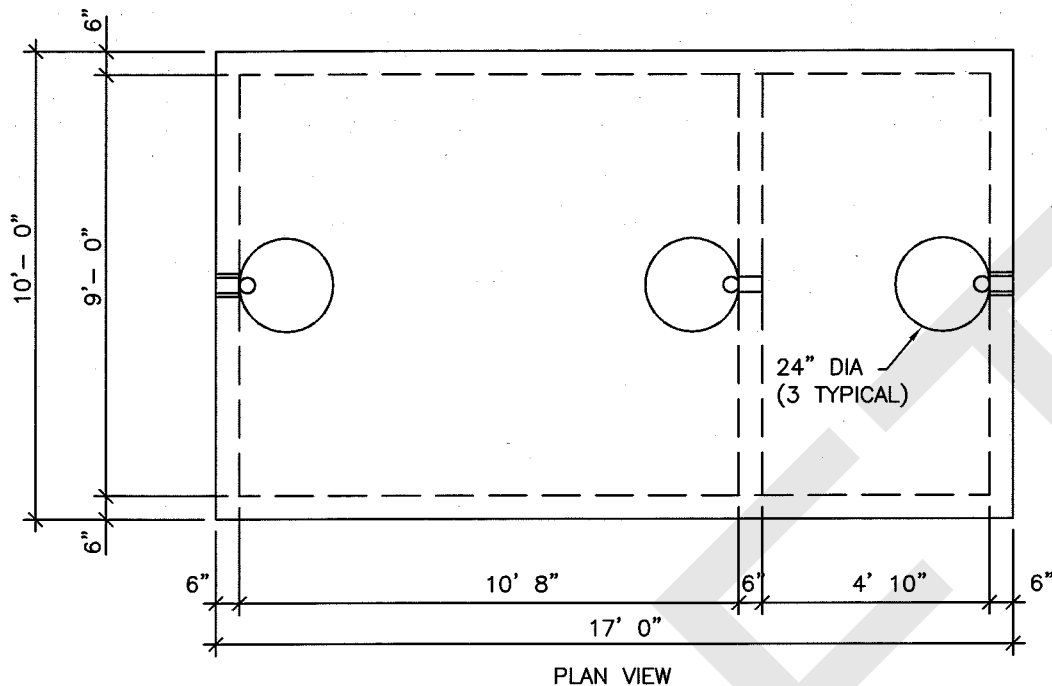
I-8

NOTES:

1. 2-PIECE CONSTRUCTION WITH BUTYL TAPE SEAL @ JOINT
2. REINFORCEMENT:  
TOP AND BOTTOM: #4 @ 4" O.C.E.W.  
SIDES: #4 @ 4" O.C.E.W.
3. SUITABLE FOR TRAFFIC SITUATIONS

(WILBERT PRECAST PRODUCT #  
1641 S/OW - 1654TB - HEAVY LOAD OPTION OR  
APPROVED EQUIVALENT)

\\Standards\\2010-Standards\\5-SanitarySewer\\1\_1-1\_1.dwg



NOTES:

1. 1043 GALLONS/VERTICAL FOOT CAPACITY.
2. WIDE FLANGE INSTALLATION BY CONTRACTOR
3. 4" - 6" KOR N SEAL BOOTS  
@ INLET/OUTLET PENETRATIONS.

REBAR:

- WALLS: #6 @ 6" O.C. HORIZONTAL  
#4 @ 10" O.C. VERTICAL
- TOP & BOTTOM: #6 @ 6" O.C. SHORT DIRECTION  
#4 @ 10" O.C. LONG DIRECTION

WEIGHTS/SECTION:

- TOP: 19097#
- WALL: 4575# PER VERTICAL FOOT
- BOTTOM: 19097#

H-20 TRAFFIC BEARING

NO SUBSURFACE WATER PRESENT

(WILBERT PRECAST PRODUCT # 916 3000 GI  
- HEAVY LOAD OPTION OR APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

3000 GALLON  
GREASE INTERCEPTOR

APPROVED FOR PUBLICATION

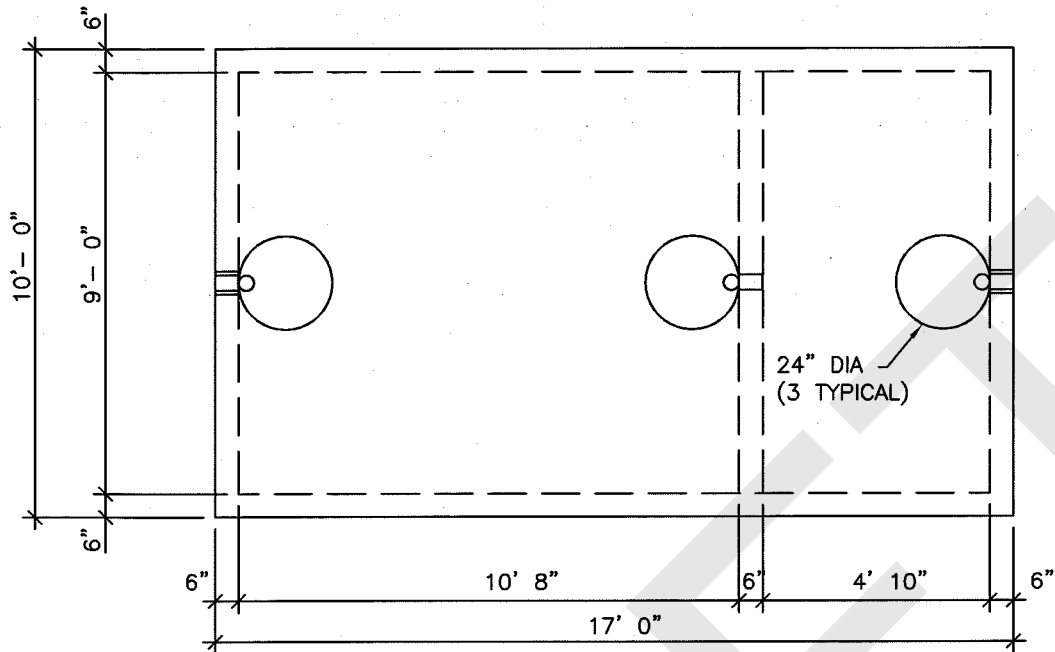
*Sharon St. Louis* 6/2/10  
City Engineer Date

DWG. NO.

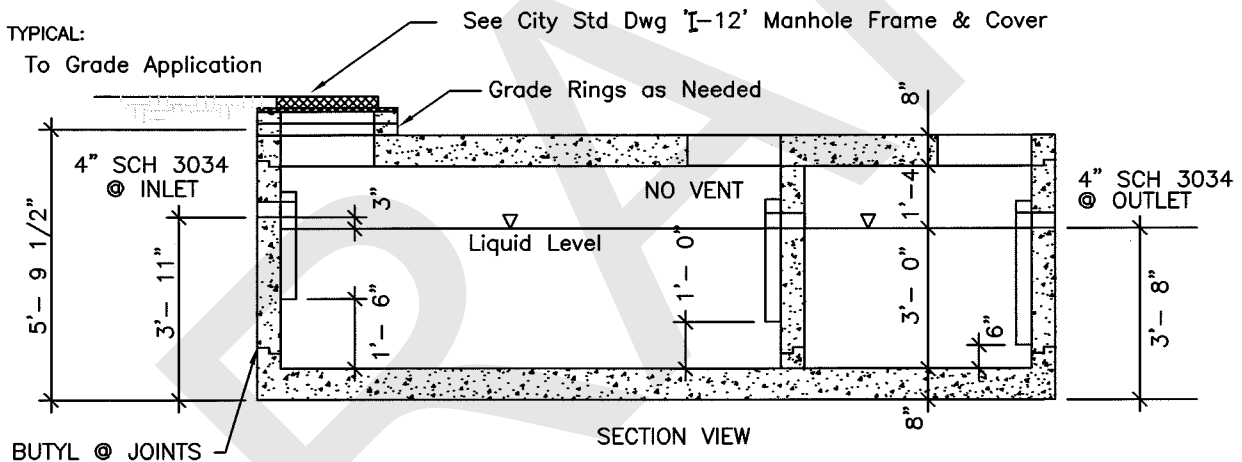
I-9

\\Standards\\2010-Standards\\5-SanitarySewer\\I-1-I-1.dwg





PLAN VIEW



SECTION VIEW

NOTES:

1. 1043 GALLONS/VERTICAL FOOT CAPACITY.
2. WIDE FLANGE INSTALLATION BY CONTRACTOR
3. 4" - 6" KOR N SEAL BOOTS  
@ INLET/OUTLET PENETRATIONS.

REBAR:

- WALLS: #6 @ 6" O.C. HORIZONTAL  
#4 @ 10" O.C. VERTICAL  
TOP & BOTTOM: #6 @ 6" O.C. SHORT DIRECTION  
#4 @ 10" O.C. LONG DIRECTION

WEIGHTS/SECTION:

- TOP: 19097#  
WALL: 4575# PER VERTICAL FOOT  
BOTTOM: 19097#

H-20 TRAFFIC BEARING  
NO SUBSURFACE WATER PRESENT

(WILBERT PRECAST PRODUCT # 916 3000 S/OW  
- HEAVY LOAD OPTION OR APPROVED EQUIVALENT)

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

3000 GALLON  
SAND OIL/WATER  
SEPARATOR

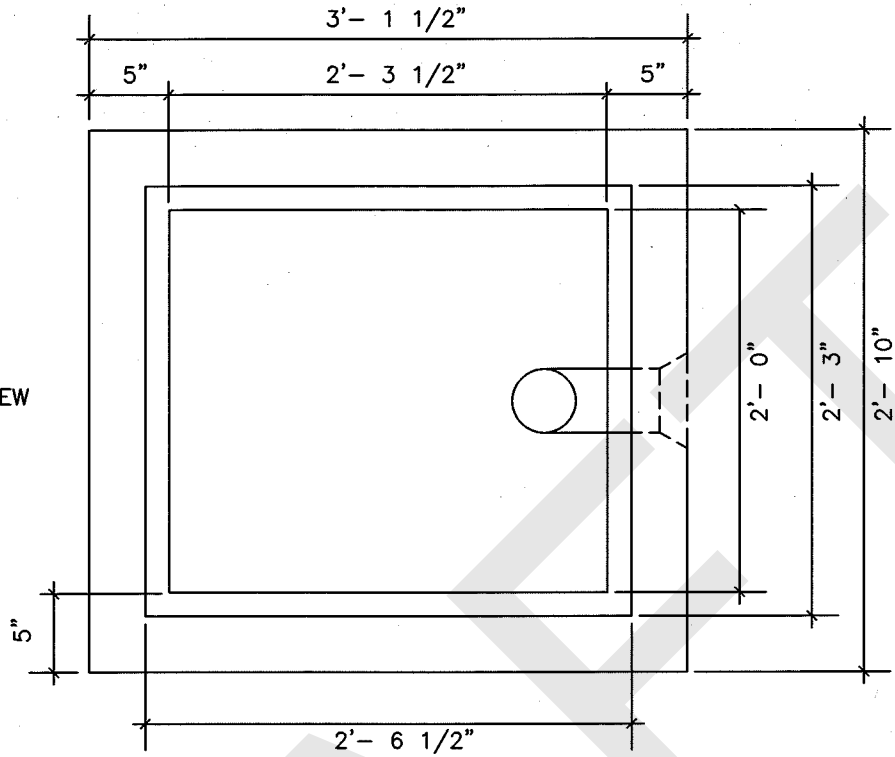
APPROVED FOR PUBLICATION

*Blaine Stiller* 6/2/10  
City Engineer Date

DWG. NO.

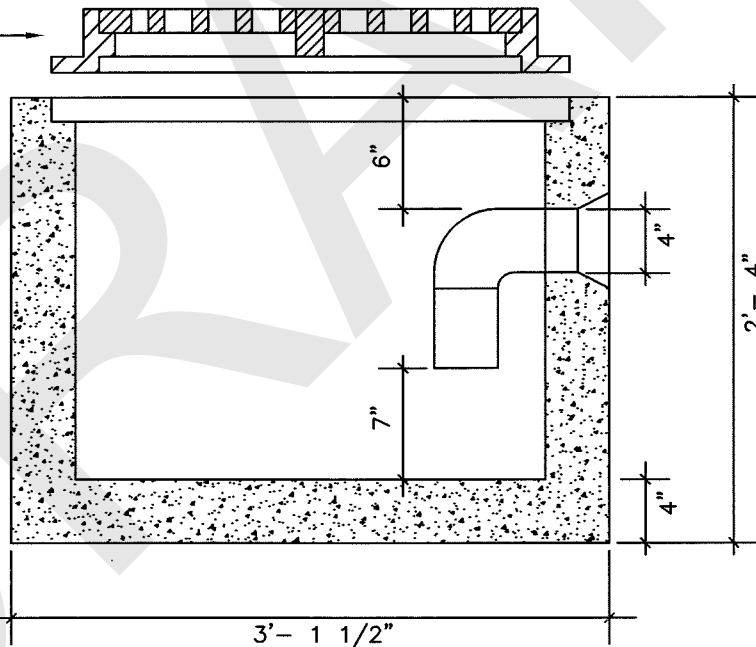
I-10

PLAN VIEW



TRAFFIC GRATE  
PRODUCT #1230  
WEIGHT 260#

SECTION VIEW



SAND TRAP  
PRODUCT #1850  
WEIGHT: 1620#

**NOTES:**

1. ALL UNITS MEET OR EXCEED THE REQUIREMENTS OF ASTM C-478/AASHTO M-199.
2. THIS SAND TRAP IS FOR INDUSTRIAL PRE-TREATMENT PURPOSES ONLY. IT SHALL NOT BE PLACED WITHIN RIGHT-OF-WAY OR BE CONNECTED TO THE CITY OF LEWISTON STORM SEWER SYSTEM.

(WILBERT PRECAST SAND TRAP PRODUCT #1850 AND TRAFFIC GRATE PRODUCT #1230 OR APPROVED EQUIVALENTS.)

\\Standards\2010-Standards\5-SanitarySewer\1-1-1.dwg

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**SAND TRAP  
WITH TRAFFIC GRATE**

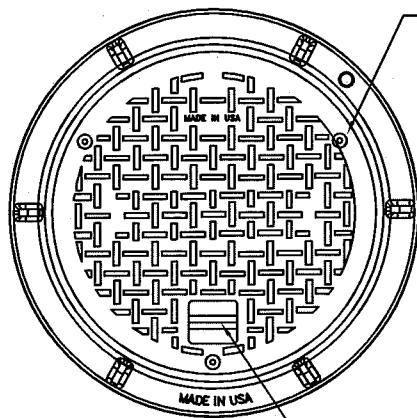
APPROVED FOR PUBLICATION

*Shawn Stubbins* 6/2/10  
City Engineer Date

DWG. NO.

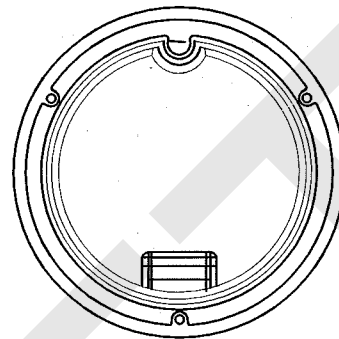
I-11

BOLT & WASHERS - 3 PLCS  
EQUALLY SPACED 120°  
APART (SEE DETAIL)

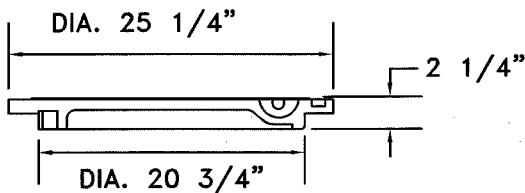


3 3/4" (1) LIFT HANDLE

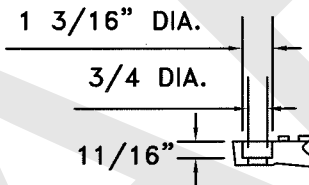
PLAN VIEW



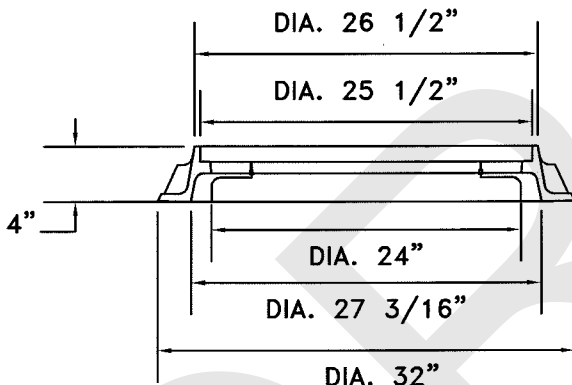
BOTTOM VIEW



SECTION VIEW - LID

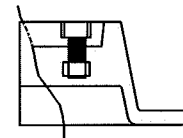


BOLT HOLE DETAIL

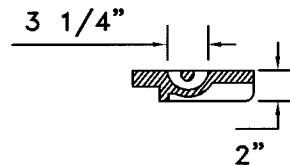


MH FRAME - SECTION VIEW

(3) BLT SOC. (ALLEN HEAD)  
5/8" - 11X 1.5 SS  
W/ STAINLESS STEEL &  
RUBBER WASHERS



BOLT DETAIL



LIFT HANDLE

NOTES:

1. MANHOLE FRAME AND COVER [D & L FOUNDRY #A-2010 or EAST JORDAN IRON WORKS #00184800] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPARTMENT.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B) MEETS H-20 LOAD.
3. LID SHALL HAVE 'CITY OF LEWISTON SEWER' LABEL.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

MANHOLE FRAME  
AND COVER

APPROVED FOR PUBLICATION

*Shawn Stubbins* 4/2/10  
City Engineer Date

DWG. NO.

I-12

## GENERAL NOTES FOR STORM WATER SYSTEMS

1. ALL WORK SHALL CONFORM TO CURRENT 'IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION' (ISPMC) SPECIFICATIONS AND THE CITY OF LEWISTON STANDARDS AND SPECIFICATIONS. IN THE CASE OF CONFLICT, CITY STANDARDS SHALL PREVAIL. THE 'LEWISTON STORMWATER POLICY AND DESIGN MANUAL' DEFINES THE POLICIES, MINIMUM STANDARDS, REQUIREMENTS, AND PROCEDURES FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF PRIVATE STORMWATER SYSTEMS.
2. ANY REPAIR, MAINTENANCE OR ALTERATION OF A PUBLIC STORM LINE OR DRAINAGE MUST BE APPROVED BY THE CITY ENGINEER.
3. THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY ENGINEER PRIOR TO ADDING OR REMOVING FILL BACKFILL OVER PUBLIC STORM DRAIN.
4. THE ENGINEERING INSPECTOR SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON STORM DRAINS.
5. ALL PUBLIC STORM DRAIN LINES SHALL BE VIDEOTAPED AND SUBMITTED TO THE PUBLIC WORKS DEPARTMENT [AS PER PUBLIC WORKS POLICY NO. 2012-2] AND APPROVED PRIOR TO PAVING. CITY SHALL HAVE FORTY-EIGHT (48) HOURS FOR REVIEW.
6. ALL MANHOLES AND CATCH BASINS SHALL BE INSPECTED TWICE BY THE ENGINEERING INSPECTOR – ONCE PRIOR TO BACKFILL AND THEN PRIOR TO ACCEPTANCE OF IMPROVEMENTS. CALL PWD OFFICE (208) 746-1316 FOR INSPECTION SCHEDULING.
7. CLOSED CONDUITS (OR PIPELINES) FOR STORMWATER CONVEYANCE IN THE CITY'S STORMWATER SYSTEM MUST BE A MINIMUM OF 12 INCH DIAMETER. THE PIPE MATERIAL MAY BE PLASTIC, REINFORCED CONCRETE OR AN APPROVED MATERIAL.
8. MINIMUM PIPE SLOPE SHALL BE 0.5% AND MINIMUM DESIGN VELOCITY WHEN FLOWING FULL SHALL BE NOT LESS THAN 2 FEET PER SECOND AND MAXIMUM VELOCITY SHOULD NOT BE MORE THAN 8 FEET PER SECOND.
9. JUNCTIONS OF 3 OR MORE PIPES, CHANGES IN ALIGNMENT, SLOPE AND/OR CHANGES IN PIPE DIAMETER SHALL BE MADE ONLY AT CATCH BASINS OR MANHOLES.
10. STEEP SLOPE INSTALLATION SHALL BE INSTALLED AS PER MANUFACTURES PIPE SPECIFICATIONS. ADDITIONAL EASEMENT WIDTH MAY BE REQUIRED FOR MAINTENANCE.
11. MANHOLE SHALL BE INSTALLED AT THE END OF EACH LINE, AT ALL CHANGE IN SIZE OR ALIGNMENT, AT DISTANCE NOT GREATER THAN 400 FEET OR AT THE CITY ENGINEER'S REQUIRED SPACING. ALL OTHER CHANGES IN SPACING MUST HAVE WRITTEN APPROVAL FROM PUBLIC WORKS DEPARTMENT.
12. TRACER WIRE SHALL BE INSTALLED WITH ANY NON-LINEAR PUBLIC STORM PIPE INSTALLATIONS. SEE CITY STD DWG NO. 1-8, 'IDENTIFYING TAPE DETAIL'.
13. CATCH BASINS AND MANHOLES SHALL BE ACCESSIBLE TO VEHICLES AND EQUIPMENT FOR MAINTENANCE AND BE WITHIN RIGHT-OF-WAY OF A MINIMUM EASEMENT WIDTH OF 20 FEET. PROPOSED ACCESS ROUTE MUST BE APPROVED BY THE CITY ENGINEER. MAINTENANCE ACCESS ROUTES THAT DO NOT FOLLOW THE STORM LINE MUST HAVE A MINIMUM 12' EASEMENT.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### STORM WATER SYSTEM GENERAL NOTES



APPROVED FOR PUBLICATION

DWG. NO.

6-1

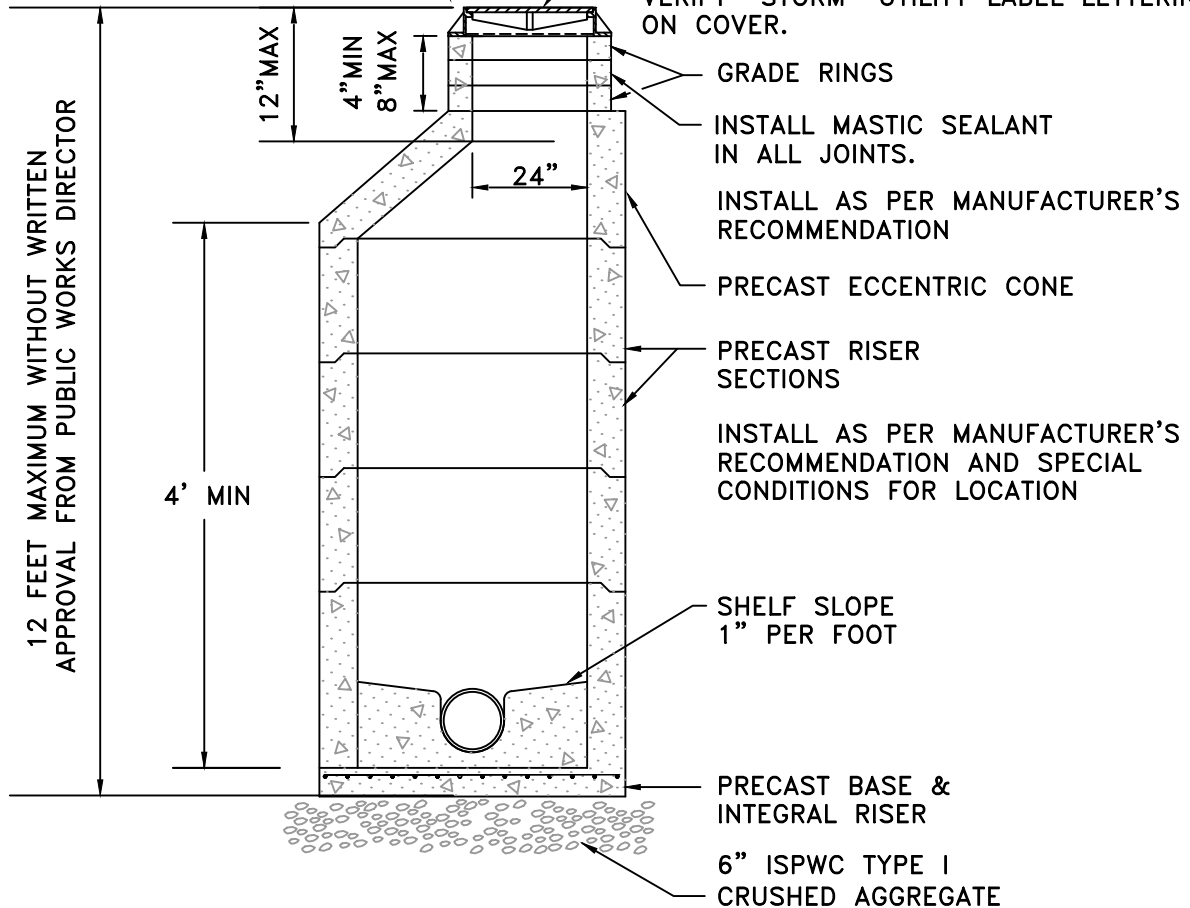
\\Standards Dwgs - City\\Current Stds\\6-StormSewer\\General\_Notes\_stm.dwg

City Engineer

Date

SEE CONCRETE MANHOLE  
COLLAR DETAIL, DWG NO. 6-4

MANHOLE FRAME (East Jordan Iron Works  
Product # 00184811) AND COVER (EJIW  
Product # 00184849) OR BY OTHER  
MANUFACTURER WILL BE ACCEPTABLE ONLY  
W/ WRITTEN APPROVAL CITY ENGINEER;  
VERIFY "STORM" UTILITY LABEL LETTERING  
ON COVER.



#### NOTES:

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443. LIFT HOLES BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE (IF PRESENT).
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
3. CONNECTION TO MANHOLE SHALL BE MADE USING RESILIENT CONNECTOR CONFORMING TO ASTM C-923 SUCH AS KOR-N-SEAL, A-LOK OR APPROVED EQUAL. HAVE A WALL THICKNESS OF 2" MINIMUM.
4. USE A MINIMUM OF 1/2" OF NON-SHRINK GROUT BETWEEN RISERS, CONE, AND FRAME.
5. RISERS, UNIT SECTIONS, AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
6. SEE STD DWG NO. 6-4 FOR CONCRETE MANHOLE COLLAR.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### STORM WATER TYPE I MANHOLE



APPROVED FOR PUBLICATION

DWG. NO.

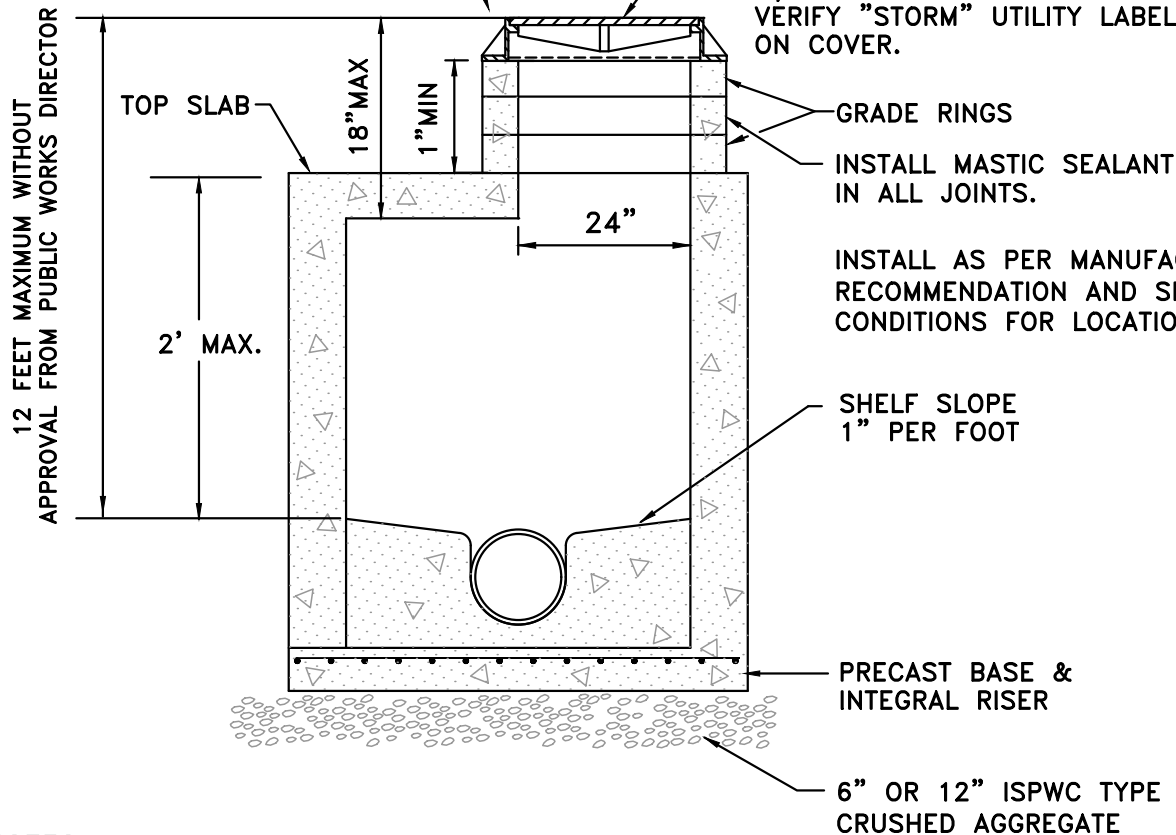
City Engineer

Date

6-2

SEE CONCRETE MANHOLE  
COLLAR DETAIL, DWG NO. 6-4

MANHOLE FRAME (East Jordon Iron Works  
Product # 00184811) AND COVER (EJIW  
Product # 00184849) OR BY OTHER  
MANUFACTURER WILL BE ACCEPTABLE ONLY  
W/ WRITTEN APPROVAL FROM CITY ENGINEER  
VERIFY "STORM" UTILITY LABEL LETTERING  
ON COVER.



#### NOTES:

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443. LIFT HOLES BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE (IF PRESENT).
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
3. CONNECTION TO MANHOLE SHALL BE MADE USING RESILIENT CONNECTOR CONFORMING TO ASTM C-923 SUCH AS KOR-N-SEAL, A-LOK OR APPROVED EQUAL AND GROUND SMOOTH INSIDE AND OUT.
4. USE A MINIMUM OF 1/2" OF NON-SHRINK GROUT BETWEEN RISERS, CONE, AND FRAME.
5. RISERS, UNIT SECTIONS, AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
6. SEE STD DWG NO. 6-4 FOR CONCRETE MANHOLE COLLAR.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

STORM WATER  
TYPE IA MANHOLE  
(SHALLOW MANHOLE)



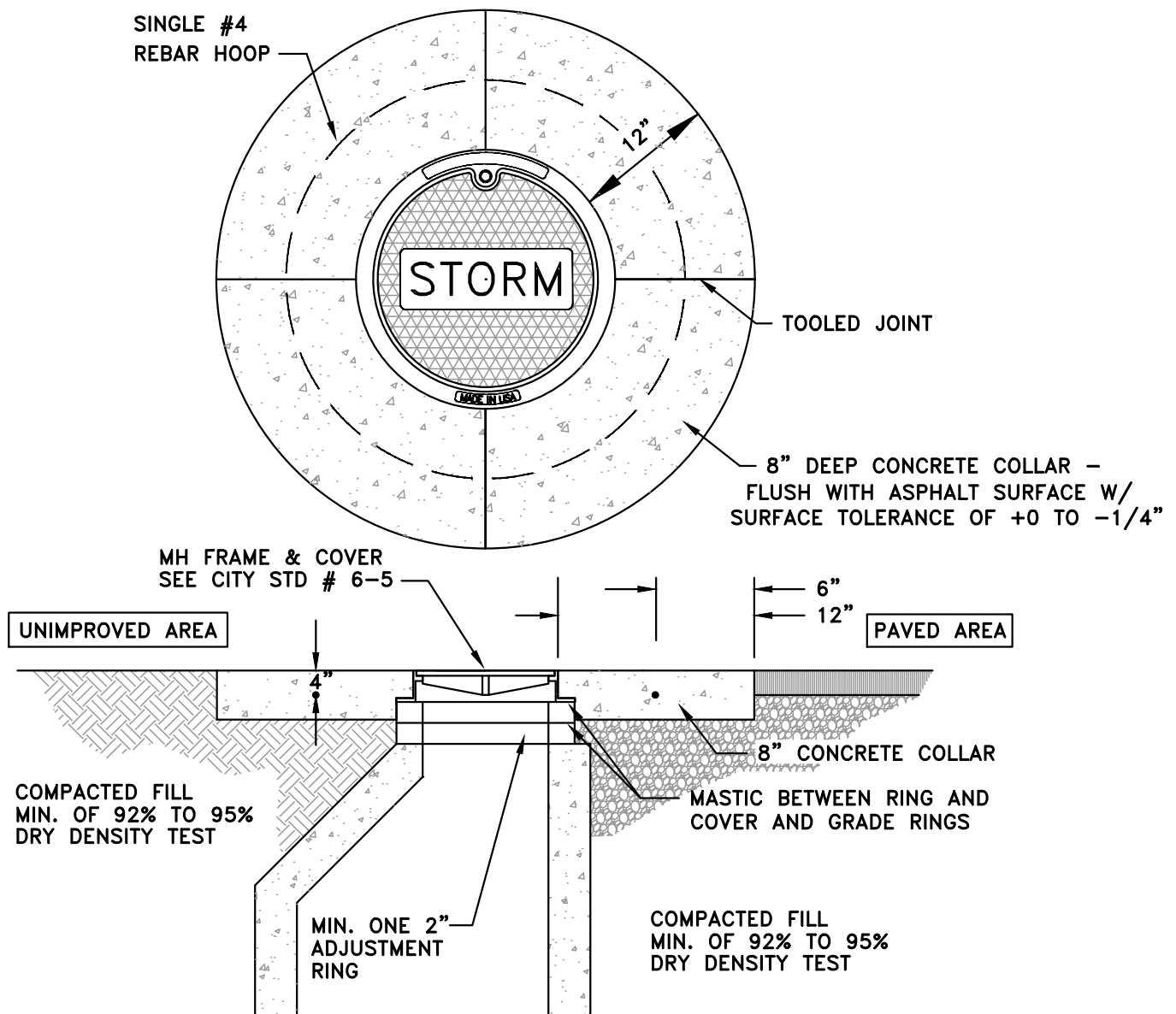
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

6-3



**NOTES:**

1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 8" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
2. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
4. UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**CONCRETE  
MANHOLE COLLAR**



APPROVED FOR PUBLICATION

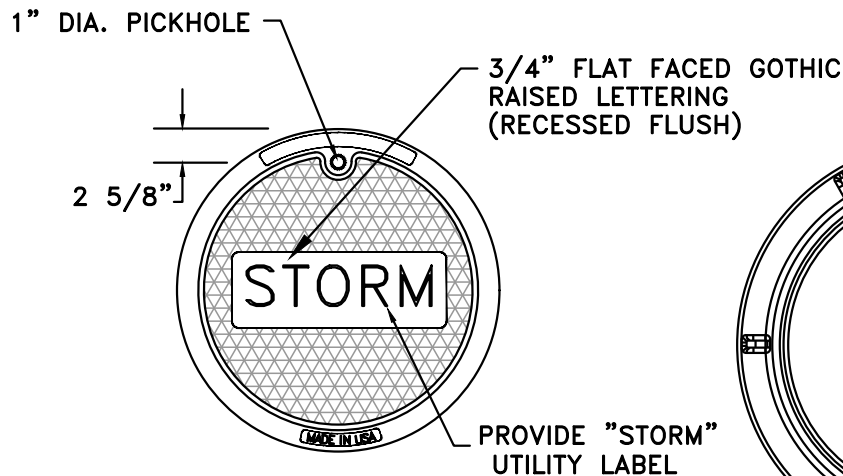
DWG. NO.

City Engineer

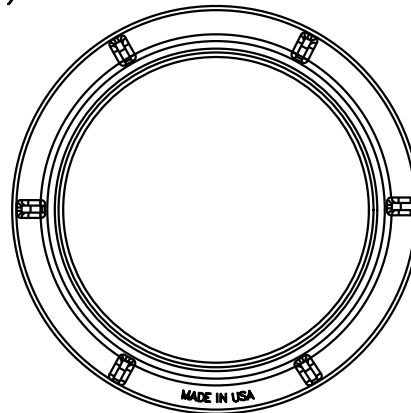
Date

**6-4**

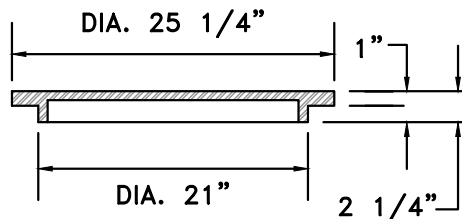




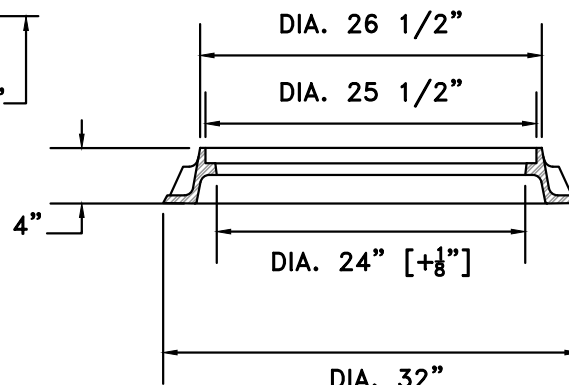
MH COVER – PLAN VIEW



MH FRAME – PLAN VIEW



MH COVER – SECTION VIEW



MH FRAME – SECTION VIEW

**NOTES:**

1. MANHOLE FRAME [EAST JORDON IRON WORKS PRODUCT #00184811 OR D&L FOUNDRY A-2003] AND COVER [EJIW #00184849 OR D&L A-2010-01] OR OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE CITY ENGINEER. PROVIDE "STORM" UTILITY LABEL LETTERING ON COVER.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B).

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**STORM WATER  
MANHOLE FRAME  
AND COVER**



APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

Date

**6-5**

## GENERAL NOTES FOR CATCH BASINS

1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
2. A CATCH BASIN SHALL BE INSTALLED UPHILL TO EACH INTERSECTION CORNER RADIUS AND SPACED NO MORE THAN 400 FEET ALONG THE LENGTH OF THE STREET OR AT THE CITY ENGINEER'S REQUIRED SPACING. ADJUSTMENTS TO SPACING SHALL REQUIRE CALCULATIONS TO VERIFY THE CHANGES HAVE MET CITY SPECIFICATIONS.
3. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
4. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
5. USE CITY STD DWG NO. 6-7 FOR CATCH BASIN FRAME AND GRATE.
6. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
7. MAXIMUM DEPTH FROM FINISHED GRADE TO PIPE INVERT IS 5 FEET.
8. USE MASTIC BETWEEN RISERS, BASE, AND FRAME.
9. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
10. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3' ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.

### CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

#### STORM WATER GENERAL CATCH BASIN NOTES



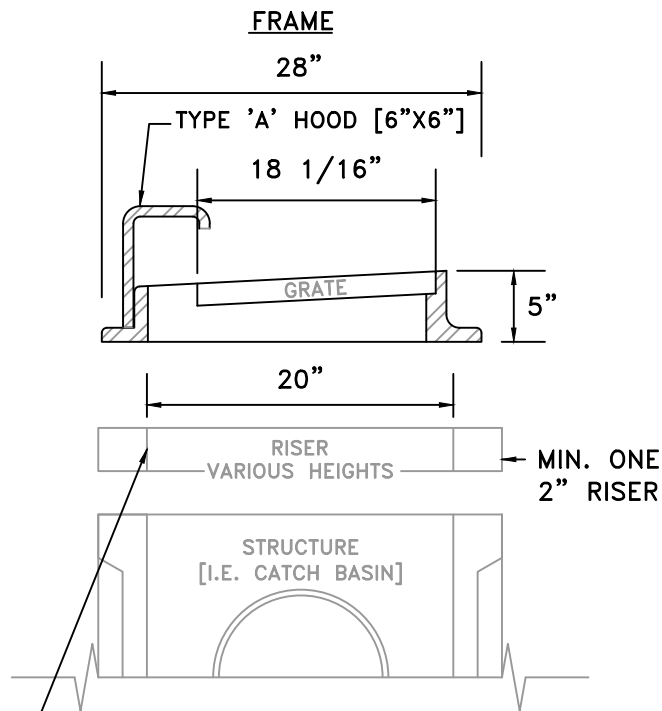
APPROVED FOR PUBLICATION

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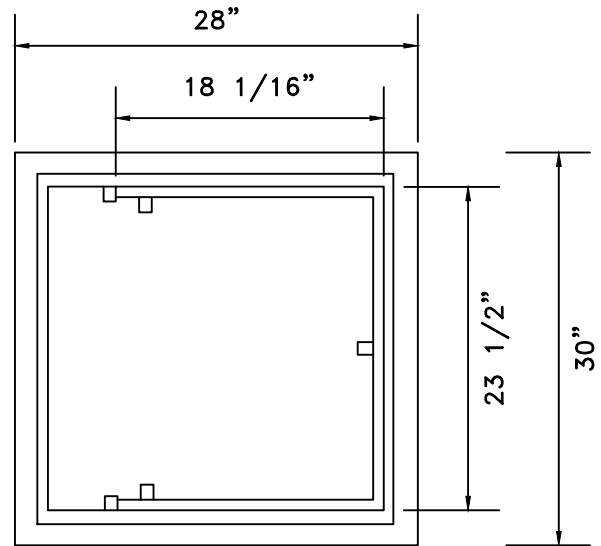
6-6

City Engineer

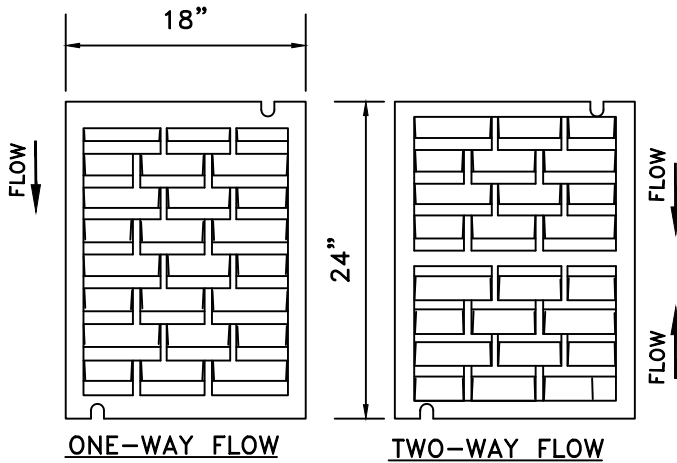
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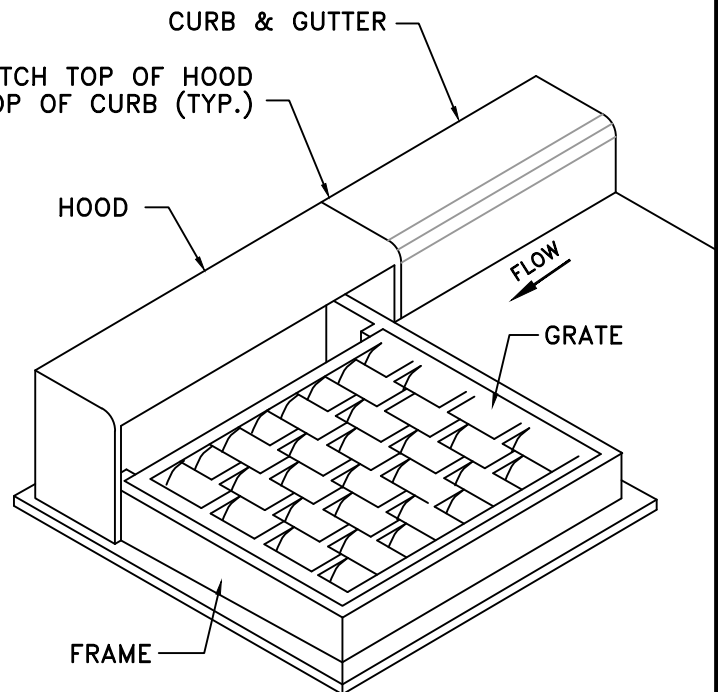
BACK OF GRATE WALL MUST BE FLUSH WITH THE BACK OF RISER WALL OR BACK OF STRUCTURE WALL



TOP VIEW - FRAME



MATCH TOP OF HOOD TO TOP OF CURB (TYP.)



NOTES:

1. CURB INLET CATCH BASIN FRAME [D & L SUPPLY - PRODUCT I-4434], GRATE AND HOOD OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE CITY ENGINEER.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B).
3. SEE CITY STD DWG NO. 6-6 'GENERAL NOTES FOR CATCH BASINS'.

Standards\2010-Standards\6-StormSewer\CB Frame\_Grate.dwg

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

STORM WATER  
CATCH BASIN FRAME  
AND GRATE



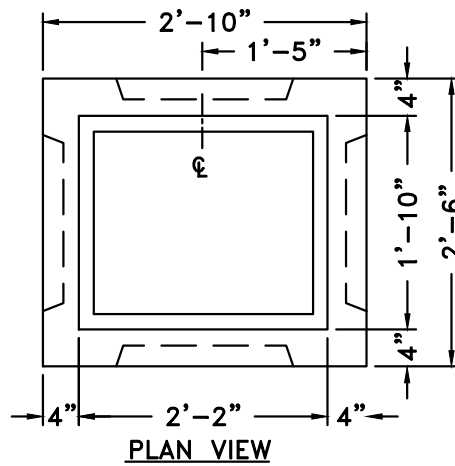
APPROVED FOR PUBLICATION

DWG. NO.

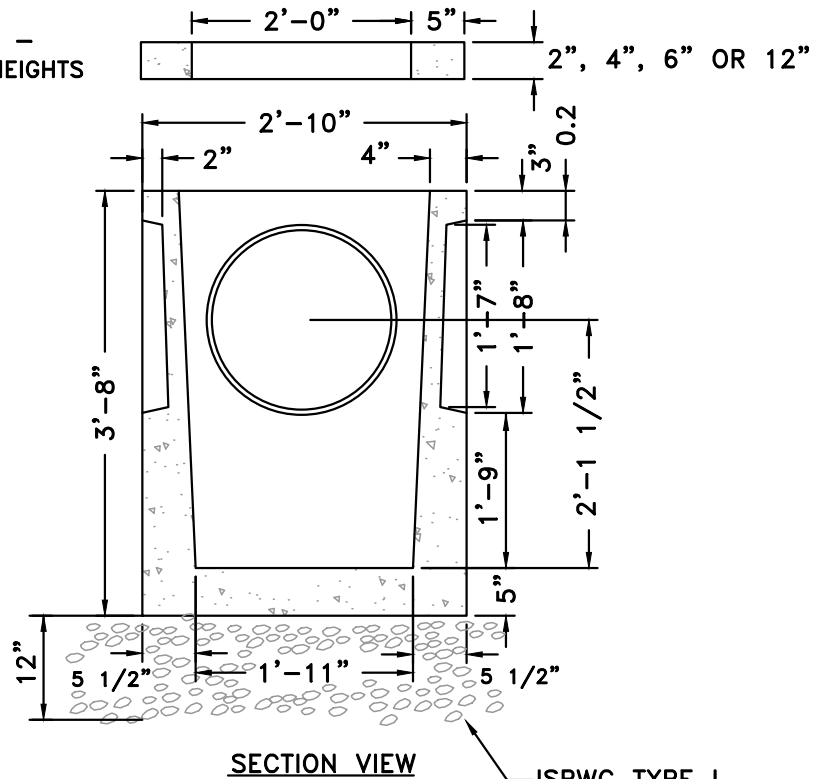
City Engineer

Date

6-7



RISER -  
VARIOUS HEIGHTS



ISPCW TYPE I  
CRUSHED AGGREGATE

NOTES:

1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE CITY ENGINEER.
2. SEE CITY STD DWG NO. 6-6 'GENERAL NOTES FOR CATCH BASINS'.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

STORM WATER  
TYPE I CATCH BASIN



APPROVED FOR PUBLICATION

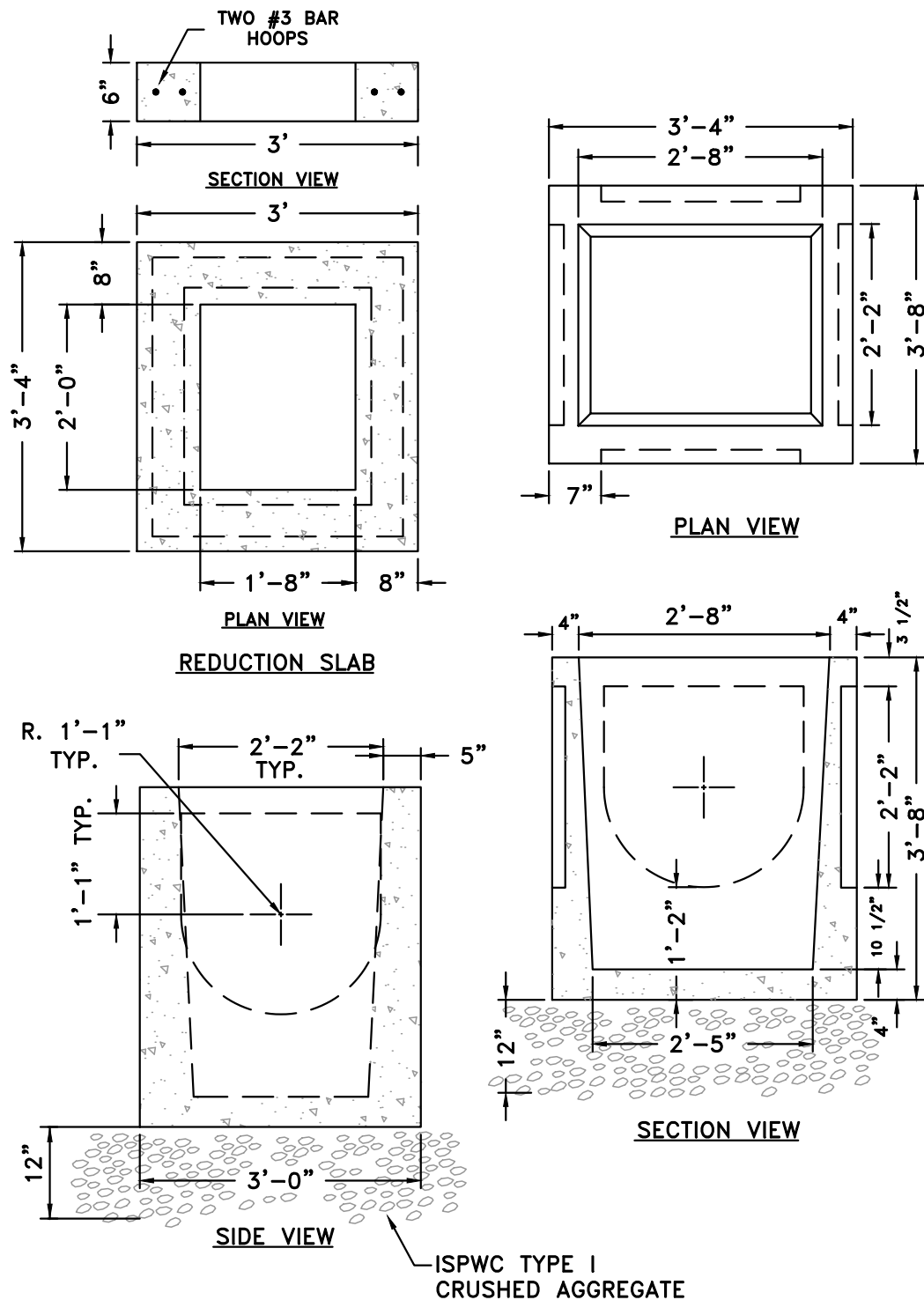
DWG. NO.

6-8

City Engineer

Date

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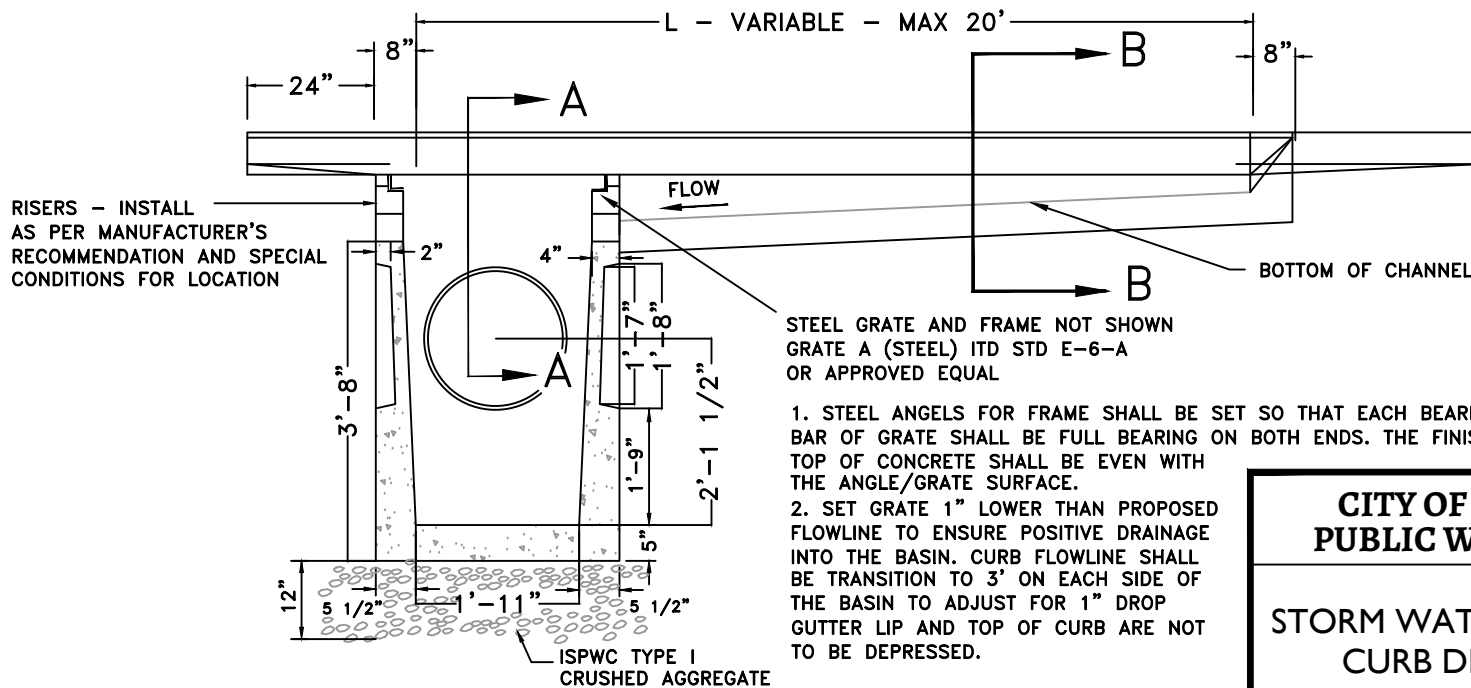
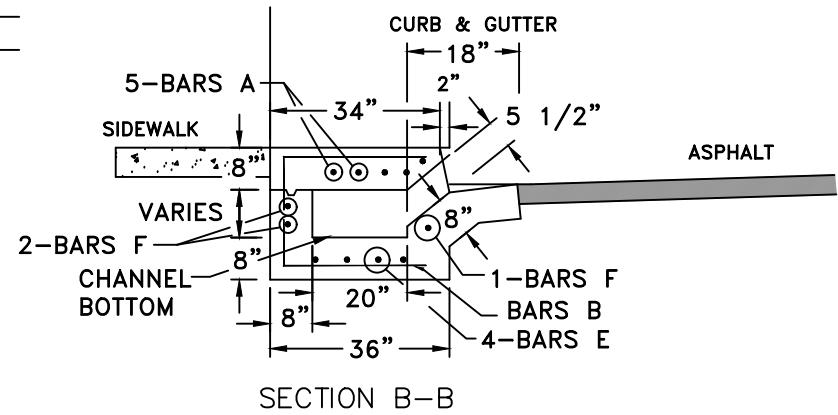
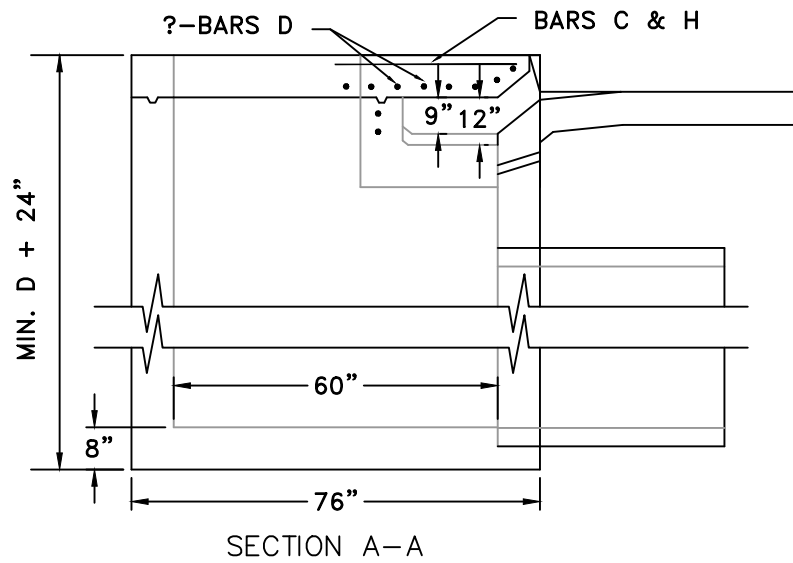


**NOTES:**

1. SHALLOW CATCH BASIN [WILBERT PRECAST PRODUCT #1845] AND REDUCTION SLAB [WILBERT PRECAST #1846] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE CITY ENGINEER.
2. SEE CITY STD DWG NO. 6-6 'GENERAL NOTES FOR CATCH BASINS'.

| CITY OF LEWISTON, IDAHO<br>PUBLIC WORKS DEPARTMENT       |          |
|----------------------------------------------------------|----------|
| STORM WATER<br>TYPE IA CATCH BASIN AND<br>REDUCTION SLAB |          |
| APPROVED FOR PUBLICATION                                 | DWG. NO. |
| City Engineer                                            | 6-9      |
| Date                                                     |          |

M:\Standards\2010-Standards\6-StormSewer\CB Shallow.dwg



STEEL GRATE AND FRAME NOT SHOWN  
GRATE A (STEEL) ITD STD E-6-A  
OR APPROVED EQUAL

1. STEEL ANGELS FOR FRAME SHALL BE SET SO THAT EACH BEARING BAR OF GRATE SHALL BE FULL BEARING ON BOTH ENDS. THE FINISHED TOP OF CONCRETE SHALL BE EVEN WITH THE ANGLE/GRATE SURFACE.
2. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO THE BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3' ON EACH SIDE OF THE BASIN TO ADJUST FOR 1" DROP GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.

Page 1 of 2

## CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

### STORM WATER STANDARD CURB DROP INLET



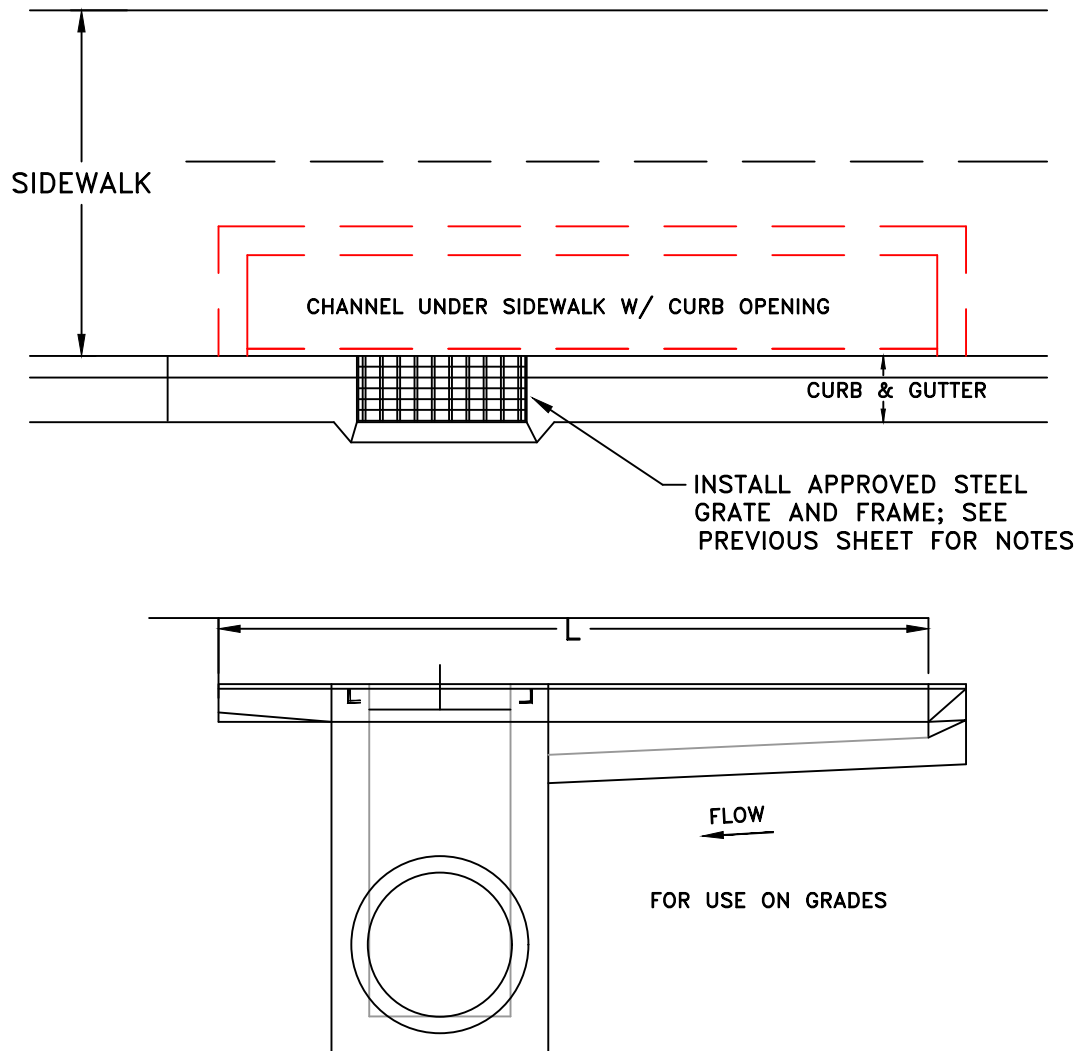
APPROVED FOR PUBLICATION

DWG. NO.

City Engineer

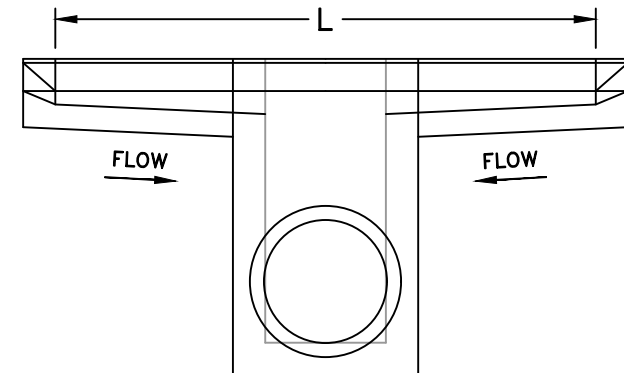
Date

6-10



**NOTES:**

1. ALL REINFORCING BARS ARE TO BE GRADE 60 STEEL WITH MIN. OF 1 1/2" CONCRETE COVER. ANY BAR IN CONFLICT WITH PIPE SHELL AND/OR TOP SLAB OPENING ARE TO BE FIELD CUT TO PROVIDE THE REQUIRED COVER.
2. ALL UNITS USED TO MEET OR EXCEED THE REQUIREMENTS ASTM C478/AASHTO M199.
3. THREE 1 1/2" DIA. WEEP HOLES IN BASIN BASE WITH 12 INCHES OF ISPWC TYPE I CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO T180.



Page 2 of 2

**CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT**

**STORM WATER STANDARD  
CURB DROP INLET**



APPROVED FOR PUBLICATION

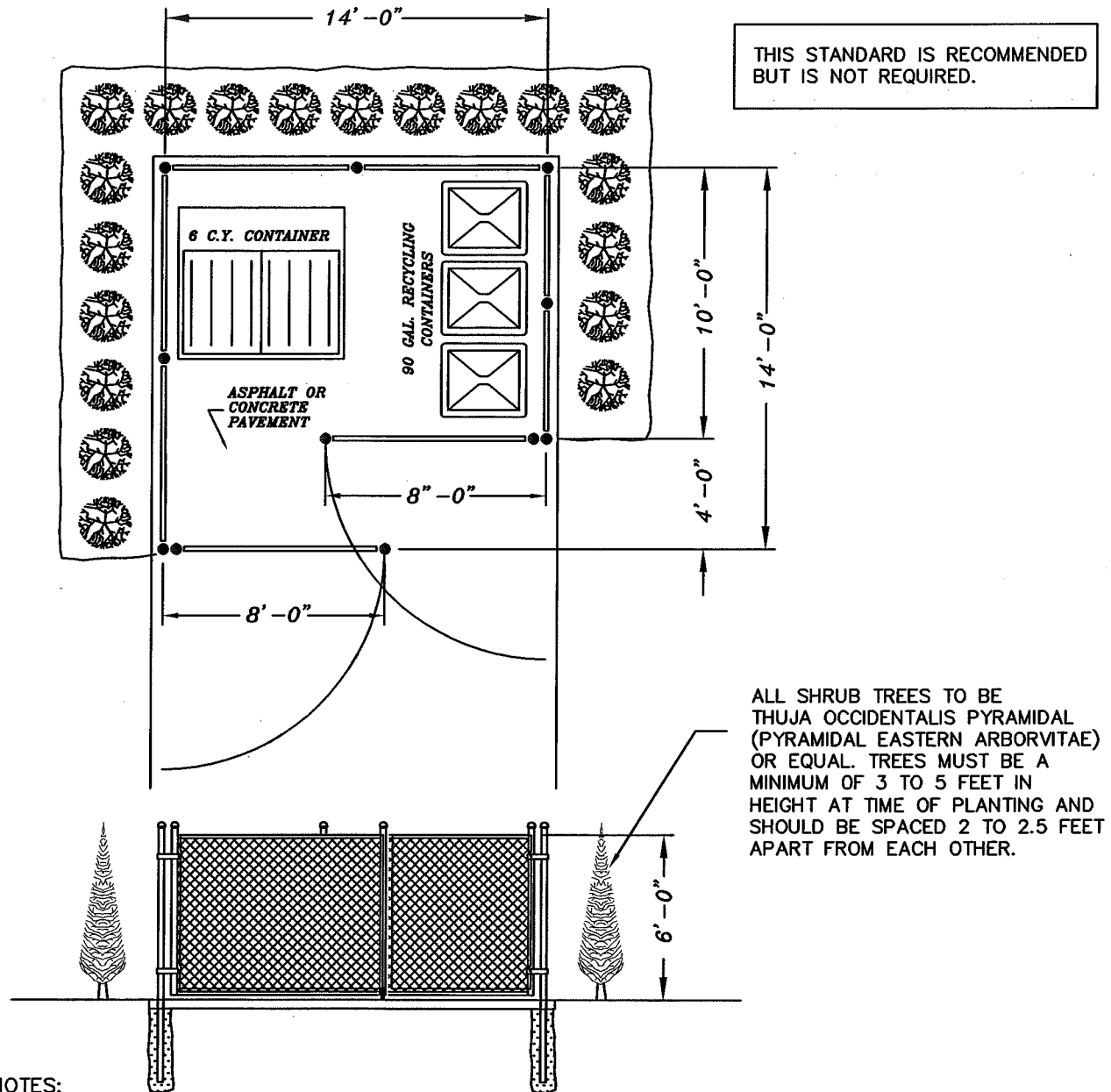
DWG. NO.

City Engineer

Date

**6-10**





**NOTES:**

1. 6' HIGH CHAIN LINK FENCE TO BE CONSTRUCTED OF GALVANIZED 9 GAUGE CORE WIRE WITH 2" MESH OR WALLS MAY BE CONSTRUCTED OF CONCRETE BLOCK OR BRICK.
2. PROVIDE CASTERS AND VERTICAL LOCKING DEVICES AT FREE ENDS OF DOORS.
3. DOORS MUST SWING OPEN AT LEAST 90 DEGREES FROM CLOSED POSITION.
4. DOORS MUST SWING FREELY AND BE ABLE TO BE LOCKED IN OPEN POSITION.
5. PROVIDE A MINIMUM OF 50 FEET "STRAIGHT-IN" APPROACH TO FRONT OF ENCLOSURE.
6. AREA MUST BE FREE OF OVERHEAD OBSTACLES, SUCH AS POWER LINES, BUILDING OVERHANGS, ETC.
7. CONTAINERS MUST BE PLACED ON A HARD LEVEL SURFACE, EITHER ASPHALT OR CONCRETE.
8. CONTAINERS MUST BE COVERED.
9. FENCE POST TO BE SET IN CONCRETE TO A DEPTH OF 36" BELOW FINISHED GROUND LEVEL.
10. CONTACT SUNSHINE DISPOSAL FOR APPROPRIATE SIZE OF CONTAINERS.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

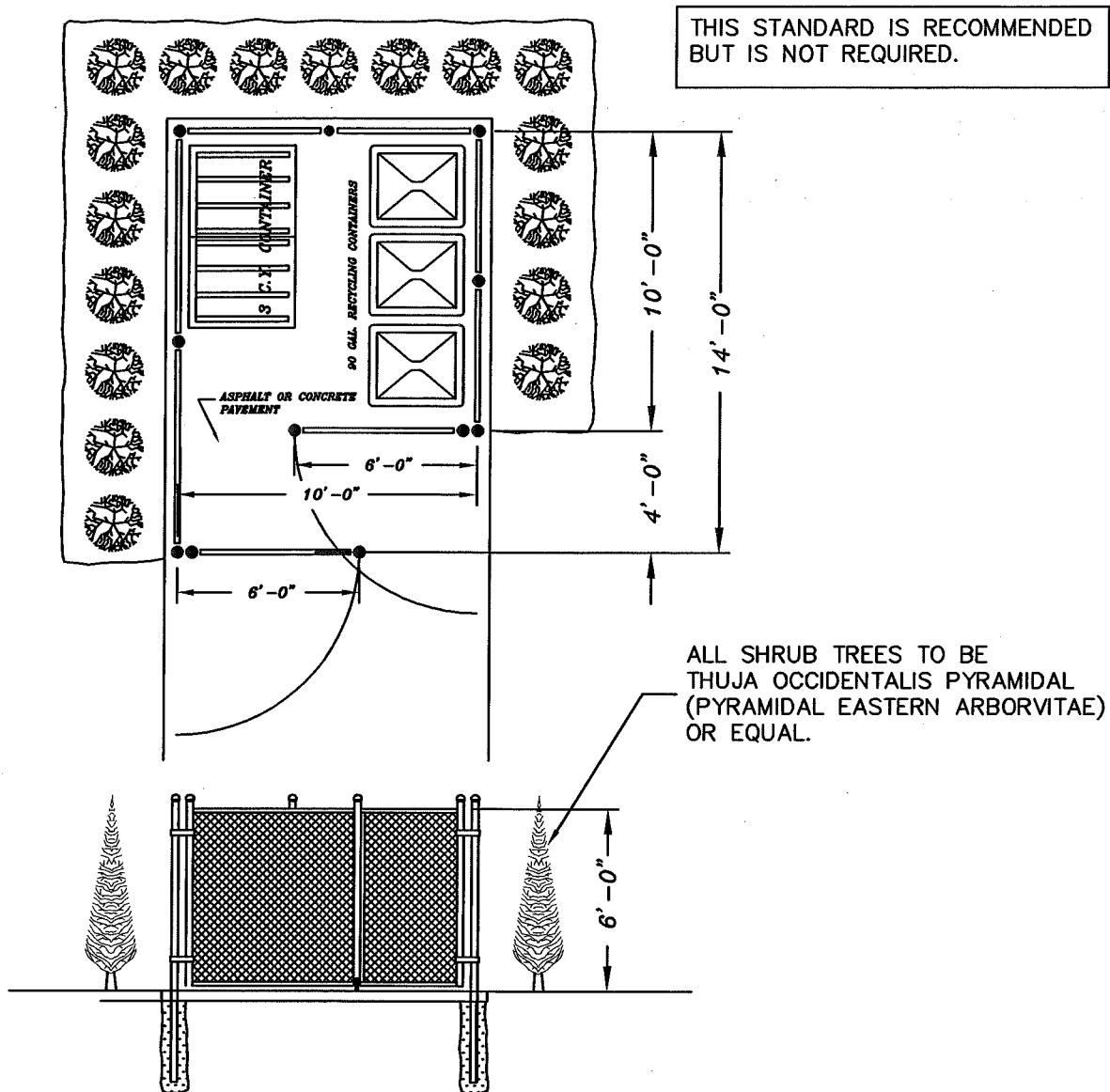
**14' x 10'  
REFUSE CONTAINER  
STORAGE AREA**

APPROVED FOR PUBLICATION

*Shawn Stuber* 10/21/10  
City Engineer Date

DWG. NO.

**7-1**



NOTES:

1. 6' HIGH CHAIN LINK FENCE TO BE CONSTRUCTED OF GALVANIZED 9 GAUGE CORE WIRE WITH 2" MESH OR WALLS MAY BE CONSTRUCTED OF CONCRETE BLOCK OR BRICK.
2. PROVIDE CASTERS AND VERTICLE LOCKING DEVICES AT FREE ENDS OF DOORS.
3. DOORS MUST SWING OPEN AT LEAST 90 DEGREES FROM CLOSED POSITION.
4. DOORS MUST SWING FREELY AND BE ABLE TO BE LOCKED IN OPEN POSITION.
5. PROVIDE A MINIMUM OF 50 FEET "STRAIGHT-IN" APPROACH TO FRONT OF ENCLOSURE.
6. AREA MUST BE FREE OF OVERHEAD OBSTACLES, SUCH AS POWER LINES, BUILDING OVERHANGS, ETC.
7. CONTAINERS MUST BE PLACED ON A HARD LEVEL SURFACE, EITHER ASPHALT OR CONCRETE.
8. CONTAINER MUST BE COVERED.
9. FENCE POST TO BE SET IN CONCRETE TO A DEPTH OF 36" BELOW FINISHED GROUND LEVEL.
10. CONTACT SUNSHINE DISPOSAL FOR APPROPRIATE SIZE OF CONTAINERS.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

10' x 10'  
REFUSE CONTAINER  
STORAGE AREA

APPROVED FOR PUBLICATION

*Shawn Stutler* 10/21/10  
City Engineer Date

DWG. NO.

7-2

| NOTE: The City of Lewiston reserves the right for 3rd party verification, inspection, and/or testing prior to infrastructure acceptance. Payment for the services of 3rd party will be the responsibility of the City of Lewiston unless items verified, inspected, and/or tested indicate non-conformance, will be the responsibility of developer/ contractor. |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| ITEM                                                                                                                                                                                                                                                                                                                                                             | MATERIAL                                                                                                                                                                                     | TEST / STANDARD                                                                                                      | ACCEPTANCE                           | TEST FREQUENCY                                                                                                                                                                                                                                                       | INSPECTOR/CO.                  |
| <b>1. ALL UTILITY TRENCHES &amp; STRUCTURES</b>                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
| TRENCH SUBGRADE/ SUBGRADE                                                                                                                                                                                                                                                                                                                                        | Native (6" to 8" Lifts Max.)                                                                                                                                                                 | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 90% Max. Dry Density                 | One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive]. One test per lift per 2,000 square feet in non-linear applications. |                                |
| PIPE BEDDING                                                                                                                                                                                                                                                                                                                                                     | <b>ISPWC Type I Crushed Aggregate (6" to 8" Max. Lift)</b>                                                                                                                                   | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 95% Max. Dry Density                 | One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive]. Test top 6" of 12" cover.                                           |                                |
| 1st FOOT [12"] OF FILL OVER PIPE                                                                                                                                                                                                                                                                                                                                 | <b>ISPWC Type I Crushed Aggregate (6" to 8" Max. Lift)</b>                                                                                                                                   | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 95% Max. Dry Density                 | One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].                                                                     |                                |
| TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK                                                                                                                                                                                                                                                                                                                   | ISPWC Type I Crushed Aggregate (6" to 8" Max. Lift)                                                                                                                                          | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 95% Max. Dry Density                 | One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].                                                                     |                                |
| STRUCTURAL FILLS                                                                                                                                                                                                                                                                                                                                                 | As Spec'd by Engineer                                                                                                                                                                        | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 95% Max. Dry Density                 | As Spec'd by Engineer                                                                                                                                                                                                                                                |                                |
| EMBANKMENT                                                                                                                                                                                                                                                                                                                                                       | As Spec'd by Engineer                                                                                                                                                                        | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B) | 95% Max. Dry Density                 | One test per lift per 2,000 square feet in non-linear applications.                                                                                                                                                                                                  |                                |
| <b>2. STORM DRAIN MAINS</b>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
| GASKETED PE Storm Sewer Pipe                                                                                                                                                                                                                                                                                                                                     | Polyethylene, ADS N-12 or Equal                                                                                                                                                              |                                                                                                                      | Certified & Visual by City           |                                                                                                                                                                                                                                                                      |                                |
| ALIGNMENT AND GRADE                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                          | Per Manufacturer's Instructions                                                                                      |                                      | Per Plan                                                                                                                                                                                                                                                             |                                |
| JOINTS (Deflection/Proper Pipe Embedment)                                                                                                                                                                                                                                                                                                                        | N/A                                                                                                                                                                                          | Per Manufacturer's Instructions                                                                                      |                                      | Each Joint                                                                                                                                                                                                                                                           |                                |
| PRESSURE TEST                                                                                                                                                                                                                                                                                                                                                    | N/A                                                                                                                                                                                          | 4 PSI for 15 Minutes, 1/2 PSI Drop                                                                                   | If required by City Engineer         | Between Access Holes                                                                                                                                                                                                                                                 |                                |
| MANHOLES                                                                                                                                                                                                                                                                                                                                                         | Concrete                                                                                                                                                                                     | City Standard                                                                                                        |                                      | N/A                                                                                                                                                                                                                                                                  | City of Lewiston               |
| VIDEO INSPECTION                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                          |                                                                                                                      | Public Works Policy No 2012-2        |                                                                                                                                                                                                                                                                      |                                |
| <b>3. WATER MAINS</b>                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
| DUCTILE IRON or PVC WATER MAIN                                                                                                                                                                                                                                                                                                                                   | AWWA C-151, C-900, C-905 (Class as Req'd)                                                                                                                                                    |                                                                                                                      | Certified & Visual by City           |                                                                                                                                                                                                                                                                      |                                |
| ALIGNMENT AND GRADE                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                          | AWWA C-600, AWWA C-605                                                                                               |                                      | Per Plan                                                                                                                                                                                                                                                             |                                |
| JOINTS (Deflection/Proper Pipe Embedment)                                                                                                                                                                                                                                                                                                                        | N/A                                                                                                                                                                                          | AWWA C-600, AWWA C-605                                                                                               |                                      | Each Joint                                                                                                                                                                                                                                                           |                                |
| FIRE HYDRANTS/LATERALS                                                                                                                                                                                                                                                                                                                                           | American Waterous Pacer w/ 16" Upper Standpipe; Nozzle: Harrington Storz Adapter (4-½ inch NH x 5 inch Storz) and Blind Cap (5 inch Storz) with Aircraft Cable at the 4-½ inch Pumper Nozzle | Per Manufacturer's Instructions                                                                                      | Certified & Visual by City           | Each Hydrant                                                                                                                                                                                                                                                         | City to verify before backfill |
| SERVICE LINES, METER SETTINGS                                                                                                                                                                                                                                                                                                                                    | City Standards and Mods, ISPWC SECTION 404                                                                                                                                                   | Per Manufacturer's Instructions                                                                                      | Certified & Visual by City           | Each Service / Meter                                                                                                                                                                                                                                                 | City to verify before backfill |
| FITTINGS, APPURTENANCES                                                                                                                                                                                                                                                                                                                                          | City Standards and Mods, ISPWC SECTION 404                                                                                                                                                   | Per Manufacturer's Instructions                                                                                      | Certified & Visual by City           | Each Fitting/Appurtenance                                                                                                                                                                                                                                            | City to verify before backfill |
| THRUST BLOCKS                                                                                                                                                                                                                                                                                                                                                    | Concrete, 2500 PSI Mix, Max Slump 4"                                                                                                                                                         | Per Approved Plans/or City Std Dwg # 4-4                                                                             |                                      | Each Thrust Block                                                                                                                                                                                                                                                    | City to verify before backfill |
| HYDROSTATIC PRESSURE                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              | 2 Hrs, NTE Allowable Leakage Per AWWA C-600, AWWA C-605                                                              |                                      | 150% Working Pressure<br>OR 1½ times the Working Pressure in the Water System                                                                                                                                                                                        |                                |
| CHLORINATION/BACTERIA                                                                                                                                                                                                                                                                                                                                            | N/A                                                                                                                                                                                          | AWWA C-651                                                                                                           |                                      | Bacterial Testing: two negative testing samples 24 hours apart                                                                                                                                                                                                       | City of Lewiston               |
| <b>4. WASTEWATER MAINS</b>                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
| PVC WASTEWATER MAIN                                                                                                                                                                                                                                                                                                                                              | PVC, SDR 35                                                                                                                                                                                  | ASTM 3034                                                                                                            |                                      | N/A                                                                                                                                                                                                                                                                  |                                |
| ALIGNMENT AND GRADE                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                          | N/A                                                                                                                  |                                      | Per Plan                                                                                                                                                                                                                                                             |                                |
| JOINTS (Deflection/Proper Pipe Embedment)                                                                                                                                                                                                                                                                                                                        | N/A                                                                                                                                                                                          | Per Manufacturer's Instructions                                                                                      |                                      | Each Joint                                                                                                                                                                                                                                                           |                                |
| MANHOLES                                                                                                                                                                                                                                                                                                                                                         | Concrete                                                                                                                                                                                     | Hydrostatic Test                                                                                                     |                                      | Each Joint                                                                                                                                                                                                                                                           | City of Lewiston               |
| PRESSURE TEST                                                                                                                                                                                                                                                                                                                                                    | N/A                                                                                                                                                                                          | 4 PSI for 15 Minutes, 1/2 PSI Max. Drop                                                                              |                                      | Between Access Holes                                                                                                                                                                                                                                                 |                                |
| VIDEO INSPECTION                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                          | No Perforations, Dents or Dimples, No Bellies > 0.02'                                                                | <b>Public Works Policy No 2012-2</b> | Between Access Holes                                                                                                                                                                                                                                                 |                                |
| <b>Sections 5 thru 11 on Page 2 of 2</b>                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
| <b>Date Last: April 2026</b>                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
|                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
|                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |
|                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                      |                                      |                                                                                                                                                                                                                                                                      |                                |

| NOTE: The City of Lewiston reserves the right for 3rd party verification, inspection, and/or testing prior to infrastructure acceptance. Payment for the services of 3rd party will be the responsibility of the City of Lewiston unless items verified, inspected, and/or tested indicate non-conformance, will be the responsibility of developer/ contractor. |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| ITEM                                                                                                                                                                                                                                                                                                                                                             | MATERIAL                                                                                                                                                                                                                                                                                                                                   | TEST / STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ACCEPTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TEST FREQUENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INSPECTOR/CO.                                                                                                |
| 5. CONCRETE CURB, GUTTER & SIDEWALK                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |
| CONCRETE                                                                                                                                                                                                                                                                                                                                                         | CLASS 35B - Approved Mix Design Required with Min Cement Content of 560 Lb/CY, Max Water/ Cement Ratio of .44, a WRA, and an AEA                                                                                                                                                                                                           | AASHTO T-22 Compressive Strength of Concrete<br>AASHTO T-23 Making Test Specimens<br>AASHTO T-119 Slump of Hydraulic Cement Concrete<br>AASHTO T-152 Air Content of Freshly Mixed Concrete<br>AASHTO T-309 Temperature of Freshly Mixed Concrete<br>WAQTC TM-2 Sampling Freshly Mixed Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.5 lb/lb<br>Max. Slump = 5 inches<br>Air Content Percent = 6.5% ± 1.5<br>Temperature = 50°F - 80°F                                                                                                                                                                                                                                                                                         | 1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                              |
| CRUSHED AGGREGATE BASE COURSE                                                                                                                                                                                                                                                                                                                                    | ISPCW Type I Crushed Aggregate (6" to 8" Max. Lift)                                                                                                                                                                                                                                                                                        | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310 Method B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 95% Max. Dry Density                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 Tests Per 500 LF-Min 2 Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                              |
| ALIGNMENT AND GRADE                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                                                                                                                                                                        | Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | + 0.02' from Design Grade/Alignment                                                                                                                                                                                                                                                                                                                                                                                                                                  | Per 10' Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | City Approval                                                                                                |
| JOINTS/FLATNESS/STRAIGHTNESS                                                                                                                                                                                                                                                                                                                                     | N/A                                                                                                                                                                                                                                                                                                                                        | Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | + 0.02'/10' Segment                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Per 10' Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |
| FINISH                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                                                                                                                                                                                                        | Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Floated, Uniform, Light Broom Finish                                                                                                                                                                                                                                                                                                                                                                                                                                 | Entire Surface Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |
| 6. ASPHALTIC CONCRETE PAVING                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |
| SUPERPAVE HOT MIX ASPHALT                                                                                                                                                                                                                                                                                                                                        | ITD 405 Superpave Class SP3 and SP5 (2017 ITD Spec 405 and 703.05)<br><br>Note: Contractor shall provide a pre-pave meeting to discuss methods and production operations for new roadway construction or projects over 200 tons. The City of Lewiston reserves the right to request a pre-pave meeting for projects with 200 tons or less. | <b>Class SP2:</b><br>AASHTO T-308, Asphalt Content<br>AASHTO T-27 & T-11, Sieve Analysis<br>WAQTC TM-8, In-Place Density of Bituminous Mixes<br>AASHTO T-209, Theoretical Maximum Density (RICE)<br><br><b>Class SP3 and SP5:</b><br>AASHTO T-308, Asphalt Content<br>AASHTO T-27 & T-11, Sieve Analysis<br>AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA)<br>WAQTC TM-8, In-Place Density of Bituminous Mixes with Correlated Nuclear Gauge or, AAHSTO T-166, Density of Bituminous Mixes by Cones<br>AASHTO T-209, Theoretical Maximum Density (RICE)<br><br>Density Note: When a non-correlated gauge is used to determine in-place density during production, cores will be taken for final density and thickness determination. When a correlated gauge is used for production testing, cores will be taken for thickness determination only. <b>Core quantities and locations to be approved by the City of Lewiston.</b> | <b>ITD Section 405.03</b><br>Asphalt Content - CJMF Value +/- 0.3%<br>Sieve Analysis - Table 405.03-5<br>Air Voids - 4.0 +/- 1.0%<br>Voids in Mineral Aggregates, at N design - 703.05 Minimum Value 0.05b<br><br><b>All Projects Regardless of Tonnage</b><br>In-Place Density - 92-96% of Maximum Theoretical (When acceptance will be from correlated gauge, contractor must submit documentation showing gauge correlation to proposed bituminous mixture used.) | <b>Project 200 tons or less</b> - Minimum of 1 test (asphalt content, and gradation) per project. A minimum of 2 cores will be taken to determine final thickness and/ or density.<br><br><b>Projects 200 tons or more</b> - Minimum of 1 test (asphalt content, gradation, voids, and VMA) per 750 tons or, one per day. A minimum of 5 cores will be taken to determine final thickness and/or density. Random sampling locations determined by the City of Lewiston.<br><br>The City of Lewiston reserves the right for 3rd party verification, inspections, and/or testing prior to infrastructure acceptance. |                                                                                                              |
| CRUSHED AGGREGATE BASE COURSE                                                                                                                                                                                                                                                                                                                                    | ISPCW Type I Crushed Aggregate (6" to 8" Max. Lift)                                                                                                                                                                                                                                                                                        | Moisture Density Relationship of Soils (AASHTO T 180)<br>In-Place Density and Moisture Content (AASHTO 310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 95% Max. Dry Density                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 Tests Per 500 LF-Min 2 Tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                              |
| 7. EROSION & SEDIMENT CONTROLS                                                                                                                                                                                                                                                                                                                                   | Per Approved Plan                                                                                                                                                                                                                                                                                                                          | Per Plan and Manufacturers' Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1/Wk or After Every Rainfall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                              |
| 8. TRAFFIC CONTROL                                                                                                                                                                                                                                                                                                                                               | Per Approved Plan                                                                                                                                                                                                                                                                                                                          | Current Adopted MUTCD/ATSSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Continuous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
| 9. PRIVATE STORMWATER SYSTEM                                                                                                                                                                                                                                                                                                                                     | Per Approved Plan                                                                                                                                                                                                                                                                                                                          | City of Lewiston Stormwater Policy & Design Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Certified & Visual by City                                                                                                                                                                                                                                                                                                                                                                                                                                           | As Built (Record) Drawings shall be submitted prior the final inspection approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Certified & Visual by City - Underground infrastructure elements must be approved by City prior to backfill. |
| 10. MISCELLANEOUS                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |
| 11. RECORD DRAWINGS                                                                                                                                                                                                                                                                                                                                              | AutoCAD Elect File, Bond Paper, 22" x 34" Min Size                                                                                                                                                                                                                                                                                         | City Checklist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Before Public Improvements Accepted. As built (Record) Drawings shall be submitted prior to the final inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                              |
| Date Last: April 2026                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                              |

## **CITY OF LEWISTON STANDARD MODIFICATIONS TO ISPWC**

The following modifications modify the 2020 Idaho Standards for Public Works Construction (ISPWC) Manual to meet specific City of Lewiston Standards.

**Amend the ISPWC as follows:**

## SECTION 201

### CLEARING AND GRUBBING AND REMOVAL OF OBSTRUCTIONS

#### PART 3 WORKMANSHIP

##### Amend Part 3.2 to include:

##### F. Asphalt and Concrete Cutting

1. All cutting of existing asphalt pavement and concrete shall be saw cut where new asphalt will connect to existing asphalt or where concrete will connect to existing concrete. The saw cut shall be made with an Engineer approved power driven saw. The joint shall be cut to a depth as to allow for a clean finish of the entire depth of the existing pavement. Broken or disfigured edges along the existing asphalt is not acceptable. Saw cuts will not be paid for separately but included in related work items.

##### G. Abandon Existing Water Lines

1. When existing water lines are to be abandoned in place the contractor shall grout fill the pipe ends. This includes waterlines, fire hydrant lines, etc. Service lines shall be abandoned by turning the corporation stop to the "off" position, disconnecting the service line, and threading a plug or cap onto the corporation stop outlet threads.

##### H. Abandon Existing Valves

1. Where existing valves are shown on the contract documents to be abandoned, the Contractor shall close the valve, remove the existing valve collar and valve riser, and repair the surface per Section 307 – Street Cuts and Surface Repairs. The Contractor shall also note the GPS coordinates of the abandoned valve on the record drawings.

##### I. Removal of Existing Storm Drain/Irrigation Structures

1. Where existing underground storm drain/irrigation structure are shown on the contract documents to be removed or abandoned, the Contractor shall also note the GPS coordinates of the abandoned structure on the record drawings.

##### J. Removal of Trees

1. Trees are defined as having a trunk eight inch in diameter and larger, measured two feet above the ground. Where required by the contract documents, stumps and roots of trees shall be ground down six inches below ground elevation. Removal of trees/bushes less than eight inches are considered incidental to Clearing and Grubbing.

K. Removal of Paint

1. Pavement markings shall be removed in areas required by the contract documents. Pavement markings removal shall include grinding off the paint, hydro blasting, cleaning, and application of a thin coat of asphalt surface seal. Surface shall be specified by the contract documents. Under no conditions shall paint removal damage the pavement surface. If damage occurs, the Contractor is responsible for the repair to the satisfaction of the Engineer.

END OF SECTION



## SECTION 202

### EXCAVATION AND EMBANKMENT

#### PART 1 GENERAL

##### Amend Part 1.3 to include:

- R. AASHTO T 180

#### PART 3 WORKMANSHIP

##### Amend Part 3.1 to include:

- F. It shall be the Contractor's responsibility to acquire the disposal site for non-suitable material (concrete, pavement, etc.). The Contractor shall acquire written permission from the property owner of such additional waste sites proposed, and a copy of said permission shall be furnished to the Engineer prior to any hauling to that site.
- G. Excavated topsoil shall be stripped and stockpiled at locations shown on the contract documents or as directed by the Engineer.

##### Amend Part 3.2.A to include:

- 5. Excavation/Embankment to Subgrade consists of all excavation and embankment within the site to design finish elevations, as shown on the plans. Excess excavated material not needed for the project shall become property of the Contractor and removed from the site.

##### Amend Part 3.7.D to include:

Approved repair materials include uncrushed aggregate base in accordance with Section 801 – Uncrushed Aggregates with Class A compaction.

##### Replace Part 3.8.B.12 with the following:

- 12. The minimum field compaction shall be as follows:
  - a. Embankment areas shall be compacted to 95% of the maximum laboratory density as determined by AASHTO T180 (Modified Proctor).
  - b. Samples of embankment materials for testing shall be taken every 2,000 cubic yards for determining in place and optimum density and moisture content in accordance with AASHTO T 180.

Subgrade frequencies for roadways shall be per Section 202.3.8.C.1

**Replace Table 1 Test Method Row in Part 3.8.C.2 with the following:**

|             |              |              |             |
|-------------|--------------|--------------|-------------|
| Test Method | AASHTO T 180 | AASHTO T 180 | Idaho IT-74 |
|-------------|--------------|--------------|-------------|

**Replace Part 3.9.B.1 with the following:**

1. Class A Compaction: Class A compaction consists of compacting the top 8 inches in cuts and embankments and backfill material within slopes extending outward at a 2 Horizontal to 1 vertical slope from the finished subgrade to 95% as determined by the modified standard proctor test AASHTO T 180 as per the table in section 202.3.8.C.2. Compact materials to granular to test as outlined in Section 202.3.8.C.3.

END OF SECTION

## **SECTION 206**

### **PERMANENT EROSION CONTROL**

#### **PART 1      GENERAL**

**Amend Part 1.3 to include:**

- B.      Submit Seed Mix and Fertilizer for review by the Engineer.

#### **PART 3      WORKMANSHIP**

**Amend Part 3.1.E.3 to include:**

- g.      Grass seed Mix: State of Washington or Idaho certified grass species as follows, with not less than 80% germination not less than 98% pure seed, and not more than 0.50% weed seed.

**END OF SECTION**

## SECTION 301

### TRENCH EXCAVATION

#### PART 1 GENERAL

##### Amend Part 1.3 to include:

- D. International Fire Code, Current Edition adopted by the City of Lewiston.

##### Amend Part 1.4 to include:

- D. CONTRACTOR shall submit to OWNER a formal Excavation Plan at least one week prior to mobilization.

##### Amend Part 1 to include:

#### 1.7 EXCAVATION PLAN

- A. The Excavation Plan is intended to provide assurance to OWNER, when required in the contract documents, that CONTRACTOR'S means, methods, and construction approach are developed in conjunction with the contract requirements and the site and soil conditions. At a minimum, the plan shall include the following:
  - 1. Qualifications
    - a. Name, contact information and qualifications of CONTRACTOR'S project manager or quality control manager responsible for ensuring a quality project and that contract requirements are met.
  - 2. Construction Approach
    - a. List of actual or typical equipment used for excavation, shoring, transport, moisture-conditioning and compacting trench backfill and other required structural fills. Include make, model and year of any equipment anticipated for use on the project.
    - b. A detailed description of CONTRACTOR'S approach to the following:
      - i. Trench excavation, ensuring stable slopes, shoring or trench boxes, soil spoils staging and processing approach, backfill placement and compaction.
  - 3. Site Safety
    - a. Provide the name and on-site contact information for the person responsible for implementing CONTRACTOR'S safety plan and ensuring safe and stable excavations.

- b. Describe the method for providing safe access for the geotechnical testing firm to perform compaction testing and excavations.
- 4. Acknowledgment
  - a. Provide a signed statement that CONTRACTOR has reviewed the site and site conditions and has prepared the excavation plan accordingly.

### **PART 3 WORKMANSHIP**

#### **Replace Part 3.1.A last sentence with the following:**

Excavate trenches per City of Lewiston Standard Drawings 1-4 – Backfill – Class ‘A’, 1-5 – Backfill Class ‘C’, 1-6 - Backfill Class ‘D’, 1-7 – Backfill Class ‘F’ or if applicable, 1-1 – Utility Locations and 1-2 – Utility Pedestal & Trench Detail.

#### **Replace Part 3.19.A with the following:**

- A. For cable, conduit, or pipe 6 inch or less in diameter only, prepare and excavate service trenches to an even grade and to a width and depth in accordance with this section and as indicated in the Contract Documents. Construct per City of Lewiston Standard Drawings 1-1 – Utility Locations and 1-2 – Utility Pedestal & Trench Detail.

#### **Amend Part 3.19 to include:**

- D. Backfill the service/utility trench in accordance with Section 305 – Pipe Bedding, Type I and Section 306 – Trench Backfill, Type A-1.

END OF SECTION

## **SECTION 302**

### **ROCK EXCAVATION**

#### **PART 1 GENERAL**

##### **Amend Part 1.1 to include:**

- A. The provisions of this section regulating to the use of explosives are to be observed in addition to the requirements of the adopted edition of the International Fire Code. Where requirements conflict the provisions of this section apply.

##### **Amend Part 1.3 to include:**

- C. International Fire Code, Current Edition adopted by the City of Lewiston.

##### **Replace Part 1.4.E with the following:**

- E. Submit copy of Blasting Permit issued by the bureau of fire prevention.

##### **Amend Part 1.7 to include:**

- C. Seismic Monitoring Report: Submit, when required by the contract documents, a report documenting the continuously recorded seismograph results of ground vibrations during rock removal operations.

##### **Amend Part 1.9 to include:**

- B. Notification Required. Whenever blasting is being conducted in the vicinity of gas, electric, water, sewer, fire alarm, telephone, telegraph or steam utilities or any structure, the blaster shall notify the appropriate representative of such utility and owner of the closest structure and such additional persons identified by the fire chief at least twenty-four (24) hours and no more than ten (10) days in advance of blasting. Said notification shall specify the location and intended time of such blasting. Documentation of notification must be filed with and approved by the fire chief prior to each blasting event. In an emergency, or in the event all the requirements of this chapter have been met, this time limit may be waived or reduced in the discretion of the fire chief.
- C. The blaster must make a minimum of six (6) attempts to contact property owners. Four (4) attempts shall be between the hours of 8:00 a.m. and 6:00 p.m. and two (2) attempts between the hours of 6:00 p.m. and 9:00 p.m. If attempts are unsuccessful, a notarized statement detailing the address, dates and time of the attempts or the name of the person making the attempts to contact shall be submitted to the fire chief for approval to proceed with blasting activity. At the time of notification the blaster shall offer to perform and agree to a date and time to conduct a pre-blast survey of the closest structures and property identified by the fire chief to establish all pre-blast damage, including cracks in walls,

floors, ceilings and around windows, loose bricks and other defects inside and outside the structures.

**Amend Part 1 to include:**

**1.10 PREPARATION**

- A. Erect temporary safety barriers and/or chain link fences to adequately secure the construction area. Relocate safety barriers as required around the work zones as construction proceeds. Safety remains the sole responsibility of the Contractor.

**1.11 BUREAU OF FIRE PREVENTION PERMIT REQUIREMENTS**

- A. Site Plan Required: When applying for a blasting permit the applicant shall submit a site plan of the proposed blasting operation which identifies any and all utilities and structures within a one-hundred-foot radius of each explosive blast. The site plan shall also identify the proposed location of all seismographic sensing devices.
- B. Insurance Required: Before a permit for the use of explosives is issued as provided in the current edition of the International Fire Code, the applicant shall file with the city a liability insurance policy on an occurrence from basis in the principal amount of one million dollars (\$1,000,000) combined single limit for the purpose of the payment of all damages to persons or property which arise from or are caused by the conduct of any act authorized by the permit. The city of Lewiston shall be named as an additional insured for any liability resulting from the issuance of said permit. Such insurance policy shall be certified by the maker or underwriter to be unencumbered by claims or legal proceedings which may reduce available coverage below the one-million-dollar limit. The fire chief may require a greater or lesser amount when, in his opinion, conditions at the location of use indicate a greater or lesser amount is required. Public agencies and utilities shall be exempt from this insurance requirement.
- C. Release of Liability: Before any permit shall issue the applicant for said permit shall agree in writing to indemnify and hold harmless the city from any and all liability resulting from the issuance of the blasting permit and any blasting activity associated with the permit. The applicant shall also agree in writing to defend the city in any court against any and all claims arising from the issuance of the permit or any blasting activity associated with the permit.
- D. Demonstration of Alternate Method. Prior to consideration of a blasting permit the applicant must demonstrate to the director of public works that excavation cannot be accomplished by use of suitable power excavation equipment. Suitable power excavation equipment is defined as a single-tooth ripper pulled by a crawler-type tractor having a flywheel rating of not



less than three hundred (300) horsepower. When, in the opinion of the director of public works, the circumstances of the proposed blasting of such demonstration is impractical, this subsection may be waived.

- E. Permit Fee: A blasting permit fee shall be assessed each blasting permit application. A fee of one hundred dollars (\$100.00) shall be assessed for multiple detonation blasting and a fee of twenty-five dollars (\$25.00) shall be assessed for single detonation blasting. Said fee shall be paid when the application is made and shall be nonrefundable.
- K. Revocation of Permit: Failure to provide required information or conform to the requirements of this section may cause the permit for the proposed blasting to be canceled and revoked at the discretion of the fire chief. Any person who willfully continues with a blasting event after a permit has been denied, canceled, or revoked shall be guilty of a misdemeanor and punished as provided in section 1-7 of this code. (Ord. No. 4088, § 4, 11-22-93; Ord. No. 4555, § 4, 1-10-11)

### **PART 3 WORKMANSHIP**

#### **Amend Part 3.1 to include:**

- E. Seismographic Equipment Required. Seismographic equipment, approved by the fire chief and of a type that measures and records seismographic information resulting from blasting activities must be placed in approved locations during all blasting events. Copies of all seismic activity recorded during each blasting event shall be submitted to the fire chief immediately following each day of blasting. Professional assistance may be required by the fire chief to interpret and certify recorded data at the expense of the blasting contractor. Requirements of this section may be waived by the fire chief for approved single charged detonations.

#### **Amend Part 3.2.B to include:**

- 1. The following formula shall be used in the determination of charge size relative to distance from exposure for single charged detonations:

$$\left[ \frac{DISTANCE}{50} \right]^2 = ALLOWABLE POUNDS OF EXPLOSIVE$$

#### **Amend Part 3.2 to include:**

- D. The Seismic Survey Consultant shall conduct pre- and post-removal inspections of any threatened structures or utilities, review the proposed rock removal equipment for level of vibration that will be induced, determine vibration limits to avoid damage to adjacent buildings, structures, retaining walls, soil and rock slopes, or utilities, and perform continuous vibration monitoring during rock removal.

**Amend Part 3.3 to include:**

- G.     Blasting Operations: The permit holder shall provide sufficient personnel to maintain visual contact with all areas surrounding the blasting site to control vehicular and pedestrian access to the entire blasting area. A method, approved by the fire chief, of signaling or communication between these personnel and the blaster must be provided.
- H.     The Contractor shall be responsible for all site safety, including establishing vibration limits which do not result in unsafe working conditions, either within the trench excavation, or due to sloughing of soil or rock in the cut slope.

**Amend Part 3.6 to include:**

- D.     Unless otherwise noted by the contract documents, the remaining rock shall be disposed of off-site by the Contractor in accordance with local, state, and federal regulations.

**Amend Part 3.7.A.4.a to include:**

Blasting that produces peak particle velocities in excess of 0.5 inches per second at the foundation of any structure is prohibited regardless of the frequency of ground vibration.

END OF SECTION

## **SECTION 305**

### **PIPE BEDDING**

#### **PART 2 MATERIALS**

##### **Amend Part 2.1 to include:**

- E. Water pipe bedding shall be  $\frac{3}{4}$  inch aggregate base coarse (Type I bedding) unless otherwise directed by Engineer. Testing shall be per ISPWC Section 306 – Utility Trench.

##### **Replace Part 2.2.A with the following:**

- A. Type I bedding material shall meet the requirements of  $\frac{3}{4}$ " Type I Crushed Aggregate for Base per Section 802 – Crushed Aggregates.

**END OF SECTION**

## **SECTION 306**

### **TRENCH BACKFILL**

#### **PART 2 MATERIALS**

##### **Amend Part 2.1 to include:**

- E. Allowable Trench Backfill: Trench backfill material between the pipe haunch and one foot above the top of the pipe, (also referred to as the pipe zone) shall be  $\frac{3}{4}$  inch Crushed Aggregate for Base, Type I, per Section 802 – Crushed Aggregates.

##### **Amend Part 2.2.A to include:**

Acceptable native material must be USCS classified as GP, GM, GW, SP, SM, or SW according to the USCS and consist of inert earth materials with less than 3% organics or other deleterious substances (wood, metal, plastic, waste, etc.). No material aggregate shall have any dimension greater than three inches.

#### **PART 3 WORKMANSHIP**

##### **Replace Part 3.1.E with the following:**

- E. Backfill per City of Lewiston Standard Drawings 1-4 – Backfill – Class ‘A’, 1-5 – Backfill Class ‘C’, 1-6 - Backfill Class ‘D’, or 1-7 – Backfill Class ‘F’.

##### **Replace Part 3.6.A with the following:**

- A. For cable, conduit, or pipes less than 6 inches in diameter, backfill trenches in accordance with City of Lewiston Standard Drawing City of Lewiston Standard Drawings 1-1 – Utility Locations, 1-2 – Utility Pedestal & Trench Detail, these specifications, and the Contract Documents.

**END OF SECTION**

## **SECTION 307**

### **STREET CUTS AND SURFACE REPAIRS**

#### **PART 3      WORKMANSHIP**

**Replace Part 3.3.C with the following:**

- C.      Compact subgrade and place uncrushed aggregate base and crushed aggregate leveling course as directed by roadway official in accordance with City of Lewiston Standard Drawing 1-7 Backfill – Class ‘F’.

**Replace Part 3.6.B with the following:**

- B.      Construct per City of Lewiston Standard Drawing 1-9 – Concrete Street Repair Detail, and Section 705 – Concrete Pavement.

**Replace Part 3.7.B with the following:**

- B.      Construct per City of Lewiston Standard Drawing 1-6 – Backfill – Class ‘D’.

**Amend Part 3.8 Heading to the following:**

3.6      TYPE “A” SURFACE RESTORATION (ASPHALT ROADWAY SURFACES)

**Replace Part 3.8.B with the following:**

- B.      Construct per City of Lewiston Standard Drawing 1-7 – Backfill – Class ‘F’ and City of Lewiston Standard Drawing 1-9 – Concrete Street Repair Detail.

**END OF SECTION**

## **ISPWC – DIVISION 300**

### **TRENCHING**

#### **REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-301 WITH CITY OF LEWISTON STANDARD DRAWING 1-4 THROUGH 1-8.

SD-303, SD-303A, AND SD-303B WITH CITY OF LEWISTON STANDARD DRAWING 1-9 CONCRETE STREET REPAIR DETAIL.

## SECTION 401

### WATER PIPE AND FITTINGS

#### PART 2 MATERIALS

##### Amend Part 2.1.A to include:

Ductile Iron Pipe – Class 350 shall be used unless otherwise approved by the Engineer. The pipe shall be cement-mortar lined in accordance with AWWA C104. All joints shall be push-on and gasketed in compliance with AWWA C111.

##### Replace Part 2.2.A.1 with the following:

1. Pressure class shall be 150 unless otherwise specified by Engineer.

##### Amend Part 2.3.A.1 to include:

Pressure class shall be 350 unless otherwise specified.

##### Replace Part 2.9.B with the following:

- B. Product: Unless otherwise indicated by the contract documents or directed by the Engineer, all mechanical joints 12 inch and smaller shall be equipped with GripRing (Romac Industries), MJ Field Lok (US Pipe), or AllGrip/ PVCgrip (Star Pipe) ring-type gripping restraints. Mechanical joints larger than 12 inch shall be equipped with RomaGrip (Romac Industries), Megalug (EBAA Iron), Stargrip (Star Pipe), or Uniflange Series 1400/1500 (Ford Meter Box) radial-wedge type mechanical joint restraints and meet the requirements of ASTM F 1674. Mechanical joint restraints shall be of a type compatible with the pipe material. An identification number consisting of year/day/plant/shift to be cast into each gland body from which to trace test results.

##### Amend Part 2.10.A to include:

Type: No. 12 AWG copper tracer wire insulated with 30 MIL of blue high density polyethylene classified as high molecular weight polyethylene. .

##### Amend Part 2 to include:

#### 2.13 IDENTIFICATION TAPE

- A. Type: Blue colored plastic tape, three inches wide.
- B. Marking: "CAUTION BURIED WATER LINE BELOW", 1-½ inch letters.

#### PART 3 WORKMANSHIP

##### Replace Part 3.2.D with the following:

#### PAGE 17 SECTION 401

- D. Refer to City of Lewiston Standard Drawings 1-4 through 1-7 for specific pipe bedding details.

**Amend Part 3.2 to include:**

- R. Install marking tape during backfilling at 18 inches to 24 inches above the crown of the pipe.

**Amend Part 3.4.A to include:**

The use of thrust blocks will not eliminate requirement for mechanical restraint of joints.

**Replace Part 3.7 with the following:**

**3.7 LOCATING WIRE**

- A. Locating wire shall be placed continuously the full length of the newly installed pipeline, with loops extending at least 2 feet above finish grade at each valve location. Locate wire shall be secured so that it remains at the top of the pipeline during and after pipe zone backfill. All splices shall be 3M direct bury splice kit DBY/Y-6. No bare wire shall be exposed. Branch connections shall be made without cutting the main wire utilizing a connection clip and sealing the joint the same as splices.
- B. The Contractor shall be responsible for testing the tracer wire system for conductivity. Testing for conductivity shall be completed prior to finish surfacing activities. If the tracer wire does not function as intended, the Contractor shall repair the system to the satisfaction of the Engineer.
- C. Refer to City of Lewiston Standard Drawing 1-8 Identifying Tape Detail.

**Remove Part 3.9.B.3.a.**

**Add Part 3.9.B.3.b.5 to include:**

- 5) Disinfection shall be performed by the City of Lewiston Water Division.

**Remove Part 3.9.B.3.c.**

**Add Part 3.9.D.3:**

- 3. Bacteriological samples shall be collected, and testing coordinated, by the City of Lewiston Water Division.

**Amend Part 3.10 to include:**

- E. The Contractor shall cut and remove pipeline components as indicated by the plans and as necessary for the installation of the required fittings at the points of connection. The Contractor shall determine the exact length of the existing water main that must be removed, and shall cut and bevel all pipe ends to prevent damage to couplings or gaskets during



installation of the new fittings. The exterior of the existing pipe end shall be cleaned to a sound, smooth finish before installation of fittings. All damage to existing pipelines to remain in-service that is caused by the Contractor's operations shall be repaired by the Contractor at no expense to the City.

- F. When work is started on a connection, it shall proceed continuously without interruption, and as rapidly as possible until completed. If the connection to the existing system involves turning off the water, the Contractor shall be responsible for notifying the residents affected by the shutoff. No shutoff of mains will be permitted overnight, over weekends, or on holidays. Only a City of Lewiston Representative is permitted to open and close active water main valves. Contractor to coordinate such work with the City.
- G. The Contractor shall provide and install all pipeline, fittings, and other components necessary to complete the connection of the new water main and the existing pipeline(s). All fittings, pipeline, thrust blocking, restraints, and other components required to complete the connection shall be provided and installed by the Contractor at no additional cost to the City.
- H. No connections or modifications to the existing water system shall be made unless the Engineer or authorized representative of the City's Water Department is present. All such connections or modifications shall be completed between 6:30 a.m. and 5:00 p.m., Monday through Friday, unless requested and approved a minimum of 2 working days in advance.

**Amend Part 3.11 to include:**

**3.11 ABANDONMENT OF EXISTING MAINS**

- E. When modifications to the existing system abandon old water mains, the unconnected ends shall be plugged or capped where indicated by the Plans or directed by the Engineer. The Contractor shall provide and install a cast iron plug or cap, or cast a concrete bulkhead at the cut end of the pipeline.
- F. When required by the contract or directed by the Engineer, the Contractor shall remove existing hydrants, valve, and valve boxes. All removed hydrants shall be delivered to the City's Water Transmission Shop, 2605 16th Street, Lewiston and shall remain the property of the City of Lewiston.

**Amend Part 3 to include:**

**3.12 IDENTIFICATION TAPE**

- A. Placement: Refer to City of Lewiston Standard Drawing 1-8 Identifying Tape Detail.

**END OF SECTION**

**SECTION 402**  
**HYDRAULIC VALVES**

**PART 2 MATERIALS**

**Replace Part 2.5 with the following:**

2.5 BLOW-OFF ASSEMBLY

- A. Refer to City of Lewiston Standard Drawing 4-3 Combination Blowoff and Sampling Tap.

**Replace Part 2.7.E with the following:**

- E. Refer to City of Lewiston Standard Drawing 4-2 Gate Valve Box with Assembly.

END OF SECTION

## SECTION 403

### HYDRANTS

#### PART 2 MATERIALS

Replace Part 2.2 with the following:

##### 2.2 FIRE HYDRANT

- A. Product: American Waterous Pacer with 16 inch Upper Standpipe. ~~Other approved options: Mueller Super Centurion or East Jordan Iron Works Watermaster.~~
- B. Nozzle: Harrington Storz Adapter (4-½ inch NH x 5 inch Storz) and Blind Cap (5 inch Storz) with Aircraft Cable at the 4-½ inch Pumper Nozzle.

Replace Part 2.3 with the following:

##### 2.3 COLOR

- A. Hydrants shall be factory painted yellow.

Replace Part 2.5 with the following:

##### 2.5 PIPE AND FITTINGS

- A. Refer to City of Lewiston Standard Drawing 4-12 Fire Hydrant with Shut-Off Valve.

#### PART 3 WORKMANSHIP

Replace Part 3.2.B with the following:

- B. Install in accordance with the City of Lewiston Standard Drawing 4-12 – Fire Hydrant with Shut-Off Valve with the pumper nozzle facing the street. Ensure outlet nozzles are at least 20 inches above the face of curb or ground surface, whichever is higher.

END OF SECTION

## SECTION 404

### WATER SERVICE LINE AND METERS

#### PART 2 MATERIALS

##### Replace Part 2.3.A with the following:

- A. City of Lewiston Water Department will supply meters unless otherwise noted on the plans. It is the responsibility of the contractor to coordinate with the City for water meter installation. Contractor is to supply and install meter boxes, valves, setters, and pipe associated with the service lines.

##### Amend Part 2.4.A to include:

- 3. Service saddles and components shall be nylon coated and shall have two stainless steel straps.

##### Replace Part 2.4.B.3 with the following:

- 3. Product: Refer to Standard Drawings 4-6 through 4-9 for product specification.

##### Amend Part 2.4.C to include:

- 2. Product: Refer to Standard Drawings 4-6 through 4-9 for product specification.

##### Replace Part 2.4.G with the following:

- G. Meter Box.
  - 1. For  $\frac{3}{4}$  inch to 1 inch service:
    - a. HDPE Pipe 30 inch depth and 24 inch diameter.
  - 2. For 1- $\frac{1}{2}$  inch to 2 inch service:
    - a. HDPE Pipe 30 inch depth and 30 inch diameter.

##### Replace Part 2.4.H with the following:

- H. Meter Box Cover.
  - 1. For  $\frac{3}{4}$  inch to 1 inch service:
    - a. If not located in sidewalk or roadway:
      - 1. Configuration: Flush Mounted with a flush mounted lid and locking device on the lid with a standard pentagon bolt.

3. Product: 24 inch by 20 inch extension ring with 20 inch Ford X3-T Meter Box Cover.
  - a. If located in sidewalk or roadway:
    1. Configuration: Flush Mounted with a flush mounted lid and locking device on the lid with a standard pentagon bolt.
    2. Size: Lid and frame shall be traffic rated and sized to match water meter box.
    3. Product: East Jordan Iron Works – 24” ERGO Catalog #00104012L01.
2. For 1-½ inch to 2 inch service:
  - a. Configuration: Flush Mounted with a flush mounted lid and locking device on the lid with a standard pentagon bolt.
  - b. Size: Lid and frame shall be traffic rated and sized to match water meter box.
  - c. Product: East Jordan Iron Works – 24” ERGO Catalog #00104012L01.

### **PART 3      WORKMANSHIP**

#### **Replace Part 3.2.C with the following:**

- C. Install pipe, fittings, meters, meter boxes in accordance with the manufacturer’s recommendations and City of Lewiston Standard Drawing 4-5 Typical Water Meter or Utility Mark Location.

END OF SECTION

Create a new Section:

## SECTION 405

### PACKAGE TYPE PRV STATIONS

#### PART 1 GENERAL

##### 1.1 Scope

- A. Work covered in this section includes furnishing, installing, start-up and operation training for a package type Pressure Reducing Valve (PRV) station.
- B. All equipment specified in this section shall be furnished by one manufacturer.

##### 1.2 Reference Specifications, Codes, and Standards

- A. Codes and Standards – Comply with the provisions of the following codes, standards and specifications, except as otherwise shown and specified:

AISC – “Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings”, including “Commentary of the AISC Specifications”

AISC – “Specifications for the Design of Cold-Formed Steel Structural Members”

AWS – “Structural Welding Code”

- B. Welding of Aluminum – Conduct in accordance with Section 10 of the “Specifications for the Design and Construction of Structural Supports for Highway Luminaries”, AASHTO, 1971. Welding method shall be either gas tungsten arc or gas metal arc.
- C. Shop Assembly – Pre-assemble items in the shop to the greatest extent possible, so as to minimize field assembly of units at the project site. Disassemble units only to the extent necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installation.
- D. Commercial Standards:

#### ANSI B16.5 PIPE FLANGES AND FLANGED FITTINGS, STEEL NICKEL ALLOY

and other Special Alloys.

ANSI/ASME B1.20.1 General Purpose Pipe Threads (Inches).

ASTM A 36 Specification for Structural Steel.

NEMA ICS 6 1988 (Rev. 1) Enclosures for Industrial Control and Systems.

NFPA 70 Current National Electrical Code.

SSPC-SP1 Solvent Cleaning.

|            |                            |
|------------|----------------------------|
| SSPC-SP2   | Hand Tool Cleaning.        |
| SSPC-SP3   | Power Tool Cleaning.       |
| SSPC-SP6   | Commercial Blast Cleaning. |
| ASTM A 125 | Hot Dipped Galvanizing.    |

### **1.3 Contractor Submittals**

The information listed below shall be submitted to the ENGINEER for review in accordance with Section 01100. The submittal shall, as a minimum, include the following data drawings and other descriptive materials.

- A. A CAD shop drawings to describe and show PRV station construction and materials.

### **1.4 Information to be Provided.**

- 1. O & M manual information in accordance with manufacturers requirements.

### **1.5 Quality Assurance**

- A. PRV Station Responsibility and Coordination

- 1. The CONTRACTOR shall cause all equipment specified under this section to be furnished by the PRV station manufacturer who shall be responsible for the adequacy and compatibility of all PRV station components. Any component of the complete PRV station not provided by the manufacturer should be designed, fabricated, tested, and installed by factory-authorized representatives experienced in the design and manufacture of the PRV station equipment specified herein. This requirement, however, shall not be construed as relieving the CONTRACTOR of the overall responsibility for this portion of the work.
- 2. The CONTRACTOR shall cause the PRV station manufacturer and its suppliers to coordinate design of the PRV station such that all equipment is compatible and capable of achieving the performance requirements specified herein.

- B. Design Requirements

The PRV station site and cross section arrangement shown on the drawings is based upon the best information available to the ENGINEER at the time of design and is not intended to show exact dimensions peculiar to any specific equipment unless otherwise shown or specified. It is anticipated that the connected piping and valves shown, in part or in whole, may have to be modified in order to accommodate the specific PRV station furnished. No additional payment will be made for such modifications. All necessary calculations and drawings for any related design shall be submitted to the ENGINEER for approval prior to beginning the work.



## **1.6 Start-up Services**

Installation of the package PRV station, including all water connections to the station, will be performed by the Contractor. When the station is ready for operation, the PRV station manufacturer shall provide the services of a qualified technician, who shall review the installation and start-up of the PRV station. The control valve manufacturer will have an established service department w/ service person and service vehicle equipped with all tools and parts necessary to maintain and repair control valves furnished in these stations.

## **1.7 Warranty**

The CONTRACTOR shall warrant the package PRV station to be of quality construction, free from defects in material and factory workmanship. The PRV station chamber and cover shall be warranted for a period of one (1) year to be free from defects, resistant to rust, corrosion, or physical failures occurring in normal service, when installed in accordance with the manufacturer's recommendations.

The interior equipment, valves, piping, and apparatus shall be warranted for a period of one (1) year, excepting only those items normally consumed in service, such as light bulbs, oil, grease, gaskets, or O-rings. The CONTRACTOR shall be solely responsible for the PRV station and all related components; warranties, and guarantees by the suppliers of various components will not be accepted.

Major components, which fail to perform as specified by the ENGINEER or prove defective in service during the warranty period, shall be replaced, repaired, or satisfactorily modified by the CONTRACTOR without cost of parts or labor to the OWNER. After start-up service has been performed, labor to replace accessory items, or other accessible and easily serviced parts, shall be the responsibility of the OWNER. Such components, parts, or repairs determined to have failed because of defects in workmanship or materials will be replaced or repaired F.O.B. factory or other designated location.

## **PART 2 PRODUCTS**

### **2.1 General**

The package type PRV station shall be a pre-engineered and shop assembled station. It shall include all necessary valves, piping and controls for a complete and operable system as specified and as shown on the drawings and supplemental drawings.

The package PRV station shall be delivered to the job site requiring no additional fabrication or similar work, other than placement, and connections to supply and discharge pipes necessary for a fully functional unit.

Factory assembly of the package station shall include but not be limited to: control valves with isolation valves; inlet and outlet pressure gauges with isolation valves; line strainers, when used with blowdown valves installed; air release valves with isolation valves;  $\frac{3}{4}$ " hose bib with ball valves and vacuum breaker; aluminum access ladder with safety post; couplings to allow easy valve removal; and all needed appurtenances.

## **2.2 Experience Requirements**

The package PRV station shall be the product of a manufacturer who has the financial resources, technical qualifications, experience, organization and facilities adequate to design and manufacture package PRV stations of the type specified. The manufacturer shall have a minimum of 15 years experience in manufacturing PRV stations and shall have completed at least one hundred prior successful installations, within the area, of package type PRV stations similar in size and scope to the installation herein specified.

Said proof of experience shall be included in the submittal package and shall include facility locations, names and phone numbers of operators or persons familiar with system performance, dates of operation, and other pertinent information required by the Engineer.

Lack of required experience will be grounds for rejection of a submitted package PRV station, and the Contractor will be required to submit an alternate station which can meet the above experience requirement. No change in the bid price will be allowed for furnishing an alternate station, which will meet these specifications.

## **2.3 Station Enclosure**

Valve Chambers shall be (2) piece pre-cast reinforced concrete H2O load rated with openings to accommodate all piping and mastic for seam. Chamber interior shall be painted with White CS55 sealant to improve lighting. Chamber exterior shall be sealed with Black CS55 sealant or insulated with polyurethane foam as required to provide a watertight enclosure. Chamber shall have provision for 30" manhole frame with cover or access hatch.

## **2.4 Piping**

All 3" and larger pipe to be fabricated from schedule 40 steel to AWWA M11 Steel Pipe design Standards. Finished pipe to be sandblasted, epoxy lined and coated with NSF 61 approved epoxy to AWWA C210 specifications. 2" and smaller pipe to be stainless steel To comply with lead free requirements.

## **2.5 Testing and Start-Up**

After the package PRV station has been installed in the field, the PRV station manufacturer shall furnish competent personnel to start up and test the complete package system. An operational test, simulating service conditions, shall be given to check for leaks in all piping, valves and seals, and all auxiliary equipment. All irregularities shall be corrected to the satisfaction of the Engineer.

# **PART 3 EXECUTION**

## **3.1 Package PRV Station**

- A. The Contractor shall furnish, install, test and adjust the complete package PRV station, consisting of the PRVs, isolation valves, air release valves, sump pumps, piping, and controls, mounted in a concrete chamber enclosure.

- B. The unit shall be installed at the location shown of the Plans.
- C. The package PRV station shall be tested after installation. Testing will be conducted by the manufacturer's representative, and will consist of simulating flow demand requirements by operating a fire hydrant in the system. Normal sequencing of PRVs shall be simulated.

END OF SECTION

## **ISPWC – DIVISION 400**

### **WATER**

#### **REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-401 WITH CITY OF LEWISTON STANDARD DRAWING 4-6 AND 4-7.

SD-402 WITH CITY OF LEWISTON STANDARD DRAWING 4-8 AND 4-9.

SD-404 WITH CITY OF LEWISTON STANDARD DRAWING 4-12.

SD-405 WITH CITY OF LEWISTON STANDARD DRAWING 4-3.

SD-406 WITH CITY OF LEWISTON STANDARD DRAWING 4-2.

#### **ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 4-5

CITY OF LEWISTON STANDARD DRAWING 4-10

CITY OF LEWISTON STANDARD DRAWING 4-11

**SECTION 501**  
**GRAVITY SEWERS**

**PART 1        GENERAL**

**PART 2        MATERIALS**

**Delete Part 2.1.B.**

**PART 3        WORKMANSHIP**

**Amend Part 3.2 to include:**

- U.        Repair asphalt or surface as required by ISPWC Section 307 – Street Cuts and Surface Repairs. Surface repairs shall not take place prior to testing of new sewer and approval of CCTV.

**Amend Part 3.4.H to include:**

- 12.       Closed Circuit Television (CCTV) Inspections shall also meet the requirements in City of Lewiston Public Works Policy No.:2012-2 Public Stormwater Systems and Wastewater Mains Video Inspection. Video inspections shall be performed by the Contractor.

**Amend Part 3 to include:**

**3.5        INSTALLATION OF LOCATING WIRE AND MARKING TAPE**

- A.        Refer to City of Lewiston Standard Drawing 1-8 Identifying Tape Detail.
- B.        Install locating tape during backfill at 12 inches to 24 inches above the crown of the pipe. Tape shall be green 3" in size and have " CAUTION BURIED SEWER LINE BELOW" imprinted on it.

**END OF SECTION**

## **SECTION 502**

### **MANHOLES**

#### **PART 2 MATERIALS**

**Replace Part 2.3 with the following:**

- A. No steps shall be installed in manholes.

**Delete Part 2.4.D.**

**Replace Part 2.5.B with the following:**

- B. Cover shall be Gray Iron (ASTM A48 CL35B).

**Replace Part 2.5.C with the following:**

- C. Cover shall be EJIW #00184849, D&L A-2010-01 or approved other with written approval from the Public Works Department with ¾" flat faced gothic raised lettering "CITY OF LEWISTON SEWER". Manhole Frame shall be D&L Foundry A-2003, East Jordan Iron Works #00184811 or approved other with written approval from the Public Works Department.

**Replace Part 2.5.E with the following:**

- E. In areas of high stormwater infiltration, lids shall be gasketed and bolted.

#### **PART 3 WORKMANSHIP**

**Replace Part 3.2.A first sentence with the following:**

- A. Place 6 inches of compacted Type I bedding on prepared subgrade as specified in Section 305 – Pipe Bedding.

**Amend Part 3.3.A.3 to include:**

- 3. A-LOK

**Amend Part 3.7.A to include:**

Cast-in-place manhole walls or precast barrel and cone sections shall not be more than one inch out of alignment with the manhole base.

**Replace last sentence of Part 3.8.A with the following:**

Maximum distance from the top of the cone to finish grade shall be no more than 18".

**Amend Part 3.8 to include:**

- E. Maximum of two grade rings shall be used.

**Replace Part 3.9. with the following:**

3.9 NO STEPS SHALL BE INSTALLED IN MANHOLES.

**Replace Part 3.13.A with the following:**

- A. Place collars in all paved and unimproved areas per City of Lewiston Standard Drawing 5-6 – Wastewater Concrete Manhole Collar, and Section 703 – Cast-in-Place Concrete. Concrete shall be 3,000 psi at 28 days, water/cement ratio shall be 0.5, 3" max slump, and 3% to 6% entrained air.

**Replace Part 3.13.B with the following:**

- B. Finish the surface of the concrete collar with a smooth uniform lightly broomed surface 0 inch to ¼ inch below the adjacent pavement.

END OF SECTION

## **SECTION 504**

### **SEWER SERVICES**

#### **PART 2 MATERIALS**

##### **Amend Part 2.1.A to include:**

- A. Pipe size shall not be less than 4" in diameter for all connections except for 2" diameter pressure connections to gravity mains. Comply with pipe size, type, and strength classifications indicated in the contract documents.

##### **Amend Part 2.2.E.1 to include:**

- 1. Transition coupling (2 Required) and PVC short coupling (2 Required) and 45 PVC Wye shall be used for any pipe material 6" diameter or less.

##### **Replace Part 2.2.F.1 with the following:**

- 1. Romac Style 'CB' shall be used when sanitary main pipe is larger than 6" in diameter or City of Lewiston approved substitution.

**END OF SECTION**



## **ISPWC – DIVISION 500**

### **SEWER**

#### **DELETE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-505A

SD-506

SD-506A

SD-506B

SD-506C

SD-509

SD-510

SD-511

SD-511A

SD-511B

SD-515

#### **AMMEND THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-501 TO EXCLUDE STEPS. AMEND ISPWC STANDARD DRAWING 501 TO INCLUDE MINIMUM OF ONE 2-INCH RISER, 6" OF TYPE 1 BEDDING, AND A CONCRETE COLLAR IN GRAVEL STREET SECTIONS.

SD-502 TO EXCLUDE STEPS. AMEND ISPWC STANDARD DRAWING 502 TO INCLUDE MINIMUM OF ONE 2-INCH RISER, 6" OF TYPE 1 BEDDING, AND A CONCRETE COLLAR IN GRAVEL STREET SECTIONS.

SD-503 TO EXCLUDE STEPS. AMEND ISPWC STANDARD DRAWING 503 TO INCLUDE MINIMUM OF ONE 2-INCH RISER, 6" OF TYPE 1 BEDDING, AND A CONCRETE COLLAR IN GRAVEL STREET SECTIONS.

SD-504 TO EXCLUDE STEPS. AMEND ISPWC STANDARD DRAWING 504 TO INCLUDE MINIMUM OF ONE 2-INCH RISER, 6" OF TYPE 1 BEDDING, AND A CONCRETE COLLAR IN GRAVEL STREET SECTIONS.

SD-514 TO INCLUDE 3M DIRECT BURY SPLICE KIT DBR/Y-6.

#### **REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-505 WITH CITY OF LEWISTON STANDARD DRAWING 5-4.

SD-507 AND SD-507A WITH CITY OF LEWISTON STANDARD DRAWING 5-7.

SD-508 WITH CITY OF LEWISTON STANDARD DRAWING 5-6.

**ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 5-2

## **SECTION 601**

### **CULVERT, STORM DRAIN AND GRAVITY IRRIGATION PIPE**

#### **PART 1 GENERAL**

##### **Amend Part 1.2 to include**

- G. Section 401 – Water Pipe and Fittings.

#### **PART 2 MATERIALS**

##### **Replace Part 2.1.A with the following:**

- A. If type and strength classifications are not indicated in the Contract Documents, contact the Engineer.

##### **Replace Part 2.1.B with the following:**

- B. Comply with pipe size, type, and strength classifications indicated in the Contract Documents. Pipes must be a minimum of 12" in diameter.

##### **Amend Part 2.2.G to include:**

- 4. Manning's "n" value shall be 0.012 or less.

##### **Delete Part 2.2.I.**

##### **Amend Part 2.2 to include:**

- O. Insert-A-Tee Connection
  - 1. Per manufacturers recommendation.
  - 2. Connection shall be watertight.

#### **PART 3 WORKMANSHIP**

##### **Amend Part 3.2 to include:**

- Q. Storm water lateral crossings. Installation of water class pipe in place of the storm drainpipe where minimum separation cannot be obtained will be allowable as a crossing alternative as approved by ENGINEER.
- R. For Insert-A-Tee installation follow manufacturers recommendations.

##### **Amend Part 3 to include:**

#### **3.6 INSTALLATION OF MARKING TAPE**

- A. Install locating tape during backfilling at 12 inches to 24 inches above the crown of the pipe. Tape shall be green 3" in size and have "CAUTION BURIED STORM SEWER LINE BELOW" imprinted on it.

**Add the following Part 3.7:**

**3.7     CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION**

**A.     CCTV according to Section 501 – Gravity Sewers.**

**END OF SECTION**

## **SECTION 602**

### **STORM DRAIN INLETS, CATCH BASINS, MANHOLES, AND GRAVITY IRRIGATION STRUCTURES**

#### **PART 1 GENERAL**

##### **Amend Part 1.1.A to include:**

This section also includes the catch basin inlet assembly for roadside swales, as detailed on the plans, including catch basin, pipe, and outlet structure.

#### **PART 2 MATERIALS**

##### **Amend Part 2.1 to include:**

- D. Manholes, manhole frames, and manhole covers shall meet the requirements and be of the type and size shown in the City of Lewiston Standard Drawings 6-1, 6-2, 6-4, 6-4 and 6-5. Specifically, the two (2') foot sump in the manhole shall not be included in the manhole. The invert of the manhole shall be as detailed in the City of Lewiston Standard Drawings. The tolerance in elevation of the manhole invert and the connecting pipe will +0.0" to -1.0" inch in the direction of flow.
- E. Catch Basin-City of Lewiston Std. (Type 1) shall meet the requirements and be of the dimensions indicated in the City of Lewiston Standard Drawings 6-6, 6-7 and 6-8. All catch basins integral with curb shall be equipped with hooded frame and grate according to Standard Drawing 6-7. This catch basin is intended for pipes 12 inch in diameter and smaller.
- F. Catch Basin-City of Lewiston Std. (Type 1A) shall meet the requirements and be of the dimensions indicated in the City of Lewiston Standard Drawings 6-6, 6-7 and 6-9. All catch basins integral with curb shall be equipped with hooded frame and grate according to Standard Drawing 6-7. This catch basin is intended for pipes larger than 12 inches.
- G. Curb drop inlets shall meet the requirements and be of the dimensions indicated in the City of Lewiston Standard Drawings 6-6 and 6-10.

##### **Delete Part 2.4.**

##### **Replace Part 2.5.B with the following:**

- B. Grade rings to be 3,000 psi per Section 703 – Concrete.

##### **Replace Part 2.5.C with the following:**

- C. Cover shall be Gray Iron (ASTM A48 CL35B).

##### **Replace Part 2.5.D with the following:**

- D. Manhole frame shall be EJIW #00184811, cover shall be EJIW #00184849 or D&L A-2010-01 or approved other with written approval from the Public Works Department with  $\frac{3}{4}$ " flat faced gothic raised lettering "CITY OF LEWISTON STORM".

### **PART 3 WORKMANSHIP**

#### **Replace Part 3.2.A first sentence with the following:**

- A. Place 6 inches of compacted Type I bedding on prepared subgrade as specified in Section 305 – Pipe Bedding.

#### **Amend Part 3.3.A.3 to include:**

- 3. A-LOK

#### **Replace Part 3.9.A with the following:**

- A. Adjust inlet, catch basin, or manhole frames to design elevations with grade rings such that the maximum height of the grade rings is less than 12" for Stormwater Type 1 Manholes, inlets catch basins, and 16" for Stormwater Type 1A.

#### **Delete Part 3.10.**

#### **Replace Part 3.12.A with the following:**

- A. Place collars in both paved and unimproved areas per City of Lewiston Standard Drawing 6-4 - Concrete Manhole Collar

#### **Replace Part 3.12.B with the following:**

- B. Finish the surface of the concrete collar with a smooth uniform lightly broomed surface 0 inch to  $\frac{1}{4}$  inch below the adjacent pavement.

#### **Amend Part 3 to include:**

##### **3.15 CITY OF LEWISTON REQUIREMENTS**

- A. Catch Basin-City of Lewiston Std. (Type 1A) shall be used when the required pipe size will not fit within the Catch Basin-City of Lewiston Std. (Type 1).
- B. If grates are "on-grade" than one directional grate shall be used. If grates are in "slumps" than a bi-directional grate shall be used.
- C. Catch basins on the catch basin assembly item shall be set so the grate is 2 inches below normal flow line instead of the standard one inch.

END OF SECTION

**ISPWC – DIVISION 600**  
**CULVERTS, STORM DRAINS, AND GRAVITY IRRIGATION**  
**STANDAD DRAWINGS**

**DELETE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-601 THROUGH SD-618

**ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 6-1 THROUGH 6-12

## SECTION 706

### OTHER CONCRETE CONSTRUCTION

#### PART 1 GENERAL

##### Amend Part 1 to include:

- 1.6 CURB, GUTTER, SIDEWALK, VALLEY GUTTER, DRIVEWAY APPROACH, PEDESTRIAN RAMPS, AND DETECTABLE WARNING DOMES
  - A. Rolled Curb and Gutter – Shall consist of installing Rolled Curb and Gutter, as shown on ISPWC SD-704.
  - B. Pedestrian Curb – Shall consist of installing Standard Pedestrian Curb, as shown on City of Lewiston Standard Drawing 2-9. Four inches crushed aggregate for base (Type I) shall be considered incidental pedestrian curb.
  - C. Type 'A' Curb – Shall consist of installing Type 'A' Curb, as shown on City of Lewiston Standard Drawing 2-9.
  - I. Pedestrian Ramps with Truncated Dome Panels – Shall consist of installing concrete pedestrian ramps with truncated dome panels as shown on the plans.

##### Part 2 Materials

##### Amend Part 2.4 to include:

- B. Cast in place concrete shall be of the strength as defined in the specifications.

#### PART 3 WORKMANSHIP

##### Amend Part 3.4 to include:

- B. Truncated Dome Panels - Truncated dome panels shall be yellow color, pre-manufactured units integrally cast into the concrete ramp in accordance with ISPWC SD-712. Contractor shall provide a submittal of the proposed units to the City for approval. If a truncated dome panel is saw cut or broken and installed, the entire ramp must be removed and replaced at the contractor's expense. All forms and truncated dome panel materials must be inspected and approved by the City prior to placing concrete.

##### Amend Part 3.6 to include:

- F. All alleys, commercial driveways and private roadways accessing more than three dwelling units will be required to place three - #4 rebars within curb and gutter (Center and nine inches off center for the length of the



driveway approach). See City of Lewiston Standard Drawing 2-10 Depressed Curb Section.

- G. Pedestrian Ramps forms and Truncated Dome Panels materials must inspected and approved by the City prior to placing concrete. If the pedestrian ramp is installed without pre-approval, the City may require the ramp to be removed and re-installed at the contractor's expense. Any ramp not meeting the specifications of the approved plans or current ADA standards shall be removed and re-installed at the contractor's expense.

**Amend Part 3.7 to include:**

- D. Concrete Joint Spacing:
  - 1. Contractor shall submit a jointing plan for approval. The jointing plan shall address any special jointing measures for valves, water meter boxes, utility boxes, access boxes or other installed fixtures located within the concrete sidewalk area.
  - 2. Contractor shall install 3/8" joint material at interface with existing concrete and building foundations.
  - 3. Sidewalk expansion joints (3/8" joint material) shall be placed at a maximum 40' spacing. Other expansion joint materials spacing may be considered.
  - 4. Contraction joints for curb & gutter and concrete curb with no gutter shall be placed at maximum 10-foot spacing.
  - 5. All joints shall be hand-tooled to a, minimum 1/4 depth of the concrete, unless otherwise specified or approved by the engineer.

**Replace Part 3.8.A with the following:**

- A. Driveways Vehicle Approaches, and Sidewalks shall have a light broom finish perpendicular to length of driveway vehicle approach or sidewalk. Sidewalk shall have the Name of Contractor and Year stamped at each end of work and at intervals of 300 feet.

**Amend Part 3.13 to include:**

- B. Comply with City of Lewiston Standard Drawings 2-11, 2-12, and 2-14 where detailed in the Contract Documents.

**PART 4 MEASUREMENT AND PAYMENT**

**Replace Part 4.1 with the following:**

- 4.1 Use one or more of the following unit prices as designated on the Bid Schedule. Prices include forming, furnishing and installing or constructing joint devices and fillers, furnishing and installing reinforcing steel (unless otherwise specified) miscellaneous

**PAGE 43 SECTION 706**

embedded items, excavation of base material, compaction, various required depths of crushed aggregate for base (Type I) as specified in the standard drawings, sign relocation, placing, finishing and curing of concrete. If required and not listed in the Bid Schedule items shall be considered incidental to the following Bid Items.

END OF SECTION

## **ISPWC – DIVISION 700**

### **CONCRETE**

#### **REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-701A WITH CITY OF LEWISTON STANDARD DRAWING 2-9.  
SD-702 WITH CITY OF LEWISTON STANDARD DRAWING 2-7.  
SD-706 WITH CITY OF LEWISTON STANDARD DRAWING 2-10.  
SD-709A WITH CITY OF LEWISTON STANDARD DRAWING 1-11.  
SD-710B WITH CITY OF LEWISTON STANDARD DRAWING 2-19.  
SD-712A WITH CITY OF LEWISTON STANDARD DRAWING 2-11 THROUGH 2-13.  
SD-715 WITH CITY OF LEWISTON STANDARD DRAWING 2-3.

#### **ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 2-1.  
CITY OF LEWISTON STANDARD DRAWING 2-2.  
CITY OF LEWISTON STANDARD DRAWING 2-2A.  
CITY OF LEWISTON STANDARD DRAWING 2-6.  
CITY OF LEWISTON STANDARD DRAWING 2-14.  
CITY OF LEWISTON STANDARD DRAWING 2-15.  
CITY OF LEWISTON STANDARD DRAWING 2-17.  
CITY OF LEWISTON STANDARD DRAWING 2-20.

#### **AMEND THE FOLLOWING ISPWC STANDARD DRAWINGS TO INCLUDE:**

SD-708 WITH CITY OF LEWISTON STANDARD DRAWING 2-4 TYPICAL SECTIONS.

## **SECTION 803**

### **PLANT MIX AGGREGATES**

#### **PART 2 MATERIALS**

**Replace Part 2.1.E.3 with the following:**

3. Flat aggregate particles not to exceed eight percent by weight and elongated aggregate particles not to exceed eight percent by weight.

**Replace Part 2.1.E.4 with the following:**

4. Material may require screening and/or washing to eliminate excessive fines. No additional payment will be made for pre-screening or washing.

**Amend Part 2.2 to include:**

- D. The fine Aggregate Angularity shall be 45, minimum.
- E. Aggregate gradation will be accepted on gradations from the cold feed samples for crushing projects and from samples obtained from behind the paver on paving projects.
- F. The target gradation, for multiple stockpile mixes, shall fall within the range listed for the specified super pave design plant mix in the latest edition of the Idaho Transportation Department Standard Specifications for Highway Construction.

**Amend Part 2.3.A to include:**

- D. Perform consistency checks on percent passing on the sieves noted in Table 1 for samples taken from cold feed belt, loading/hauling equipment or from stockpiles.

**Replace Part 2.3.B with the following:**

- B. Variation from as crushed stockpile average on one inch thru No. 8 sieves not to be greater than  $\pm 5\%$ . Variation from as crushed stockpile average on sieves smaller than No. 8 down to No. 50 sieve not to be greater than  $\pm 3\%$ . Variation from as crushed stockpile average on sieves smaller than the No. 50 not to be greater than  $\pm 2.0\%$ .

**Replace Part 2.3.C with the following:**

- C. Target gradation for as crushed stockpile average shall fall within the gradation limits indicated in Tables 1 by, at least, the variations indicated in 2.3.13.

#### **PART 3 WORKMANSHIP**

#### **PAGE 46 SECTION 803**

**Replace Part 3.2.E with the following:**

- E. Material to be stockpiles, loaded, hauled and/or placed in mixing plant in a manner that limits segregation and degradation.

**END OF SECTION**

## **SECTION 810**

### **PLANT MIX PAVEMENT**

#### **PART 2 MATERIALS**

**Replace Part 2.3.A.1 with the following**

1. Asphalt cement shall be PG 64-28 meeting the requirements of Section 805 – Asphalt or approved higher grade oil.

#### **PART 3 WORKMANSHIP**

**Amend Part 3.7 to include:**

- E. Adjacent pavement sections shall be paved within 24 hours.
- F. Thickness Tolerances
  1. The average pavement thickness shall be within 0.25 inches of the specified thickness with no location varying more than  $\pm 3/8$  inches.
  2. Pavement not meeting the specified tolerance shall be removed and repaved or overlaid as determined by the engineer.
  3. No pavement will be made for material constructed outside the planned geometry.
- G. A pre-paving meeting with the, City, paving crew, foreman, quality control personnel and other key individuals will be conducted prior to start of paving operations to ensure that everyone involved with the paving is aware of the project requirements and how their actions can affect the quality of the finished project.

**END OF SECTION**

**ISPWC – DIVISION 800**

**AGGREGATES AND ASPHALT**

**DELETE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-801

**REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-802 WITH CITY OF LEWISTON STANDARD DRAWING 3-16.

SD-803 WITH CITY OF LEWISTON STANDARD DRAWING 3-10.

SD-805 WITH CITY OF LEWISTON STANDARD DRAWING 3-7.

SD-809 WITH CITY OF LEWISTON STANDARD DRAWING 2-20.

**ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 3-1.

CITY OF LEWISTON STANDARD DRAWING 3-2.

CITY OF LEWISTON STANDARD DRAWING 3-3.

CITY OF LEWISTON STANDARD DRAWING 3-4.

CITY OF LEWISTON STANDARD DRAWING 3-5.

CITY OF LEWISTON STANDARD DRAWING 3-6.

CITY OF LEWISTON STANDARD DRAWING 3-8.

CITY OF LEWISTON STANDARD DRAWING 3-9.

CITY OF LEWISTON STANDARD DRAWING 3-11.

CITY OF LEWISTON STANDARD DRAWING 3-12.

CITY OF LEWISTON STANDARD DRAWING 3-13

CITY OF LEWISTON STANDARD DRAWING 3-14.

CITY OF LEWISTON STANDARD DRAWING 3-15.

CITY OF LEWISTON STANDARD DRAWING 3-17.

## **SECTION 901**

### **PRESSURE IRRIGATION**

#### **PART 3      WORKMANSHIP**

**Replace Part 3.1.C with the following:**

- C.      Verify that excavation will allow minimum pipe cover of 24 inches, unless otherwise indicated in the contract documents.

**END OF SECTION**



## **SECTION 902**

### **PRESSURE IRRIGATION VALVES**

#### **PART 2 MATERIALS**

##### **Amend Part 2 to include:**

##### **2.13 DOUBLE CHECK VALVE**

- A. Material used for Double check valve assembly for 2" or smaller shall meet the requirements of City of Lewiston Standard Drawing 4-10.

**END OF SECTION**

**ISPWC – DIVISION 900**

**PRESSURE IRRIGATION**

**ADD THE FOLLOWING CITY OF LEWISTON STANDARD DRAWINGS:**

CITY OF LEWISTON STANDARD DRAWING 4-10.

## **SECTION 1001**

### **CONSTRUCTION SITE MANAGEMENT**

#### **PART 1 GENERAL**

**Replace Part 1.4.A with the following:**

- A. The Contractor shall submit to the Engineer, prior to commencing any work, a Stormwater Pollution Prevention Plan (SWPPP) for review, if required.

**Amend Part 1 to include:**

##### **1.6 DEFINITION**

- A. Best Management Practices (BMP)'s are the application of erosion and sediment control to the entire construction site during the duration of a project. All construction and related activities should be performed using BMP's to minimize any adverse environmental impacts on the site.
- B. BMP's not only cover the actual construction areas, but also apply to construction support areas such as staging areas, material source or stockpile areas, equipment storage and maintenance areas, batch plants or hot plants, and crushers.

#### **PART 2 MATERIALS**

**Amend Part 2.1 to include:**

- A. Materials used shall be as required to meet the EPA's or Idaho DEQ NPDES general permits. All materials not specified in ISPWC Division 1000 shall meet commercial grade standards and shall be approved by Engineer before being used.

#### **PART 3 WORKMANSHIP**

**Amend Part 3.1 to include:**

- C. Control surface drainage from cuts/fills and from borrow and waste disposal areas. Provide control structures as necessary to prevent contaminated runoff.
- D. Minimize amount of bare soil exposed at one time.
- E. Provide temporary measures such as berms, dikes, and drains, to prevent runoff into water main and service trenches.
- F. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.

- D. Periodically inspect earth work to detect evidence of erosion and sedimentation and promptly apply corrective measures.
- E. CONTRACTOR shall keep all Best Management Practices (BMPS) in service at all times.
- F. CONTRACTOR shall be aware of forecasted storm events and shall make connections of existing storm drains to new storm drains prior to the storm.
- G. If connections are not possible or feasible, CONTRACTOR shall provide adequate pumping around the construction activity.

**Amend Part 3 to include:**

**3.2 RESPONSIBILITIES**

- A. Controls for erosion and sediment may include but are not limited to the following:
  - 1. Preventing sediment or hazardous materials from leaving the site.
  - 2. Maintaining erosion and sediment control on all disturbed areas.
  - 3. Managing erosion and sediment from materials and hazardous storage areas.
  - 4. Installing and properly operating wash down, leak or spill containment facilities.
  - 5. Protecting ponds, streams, wetlands etc.
- B. Best management practices may include but are not limited to the following:
  - 1. Dust Control.
  - 2. Preservation of existing natural vegetation.
  - 3. Scheduling/sequencing of construction activities.
  - 4. Staging and materials site management.
  - 5. Strategically locating protection at storm drain inlets, silt fencing, detention ponds, straw bale dikes, check dams, channel liners, diversion channels, and other soil stabilization procedures.
- C. Other water will be treated in the same manner as storm water. The same temporary measures used in this plan for storm water will apply. Non-storm water may combine with storm water and be present in the discharge at the site. Non-storm water may include but are not limited to the following:

1. Dust control water
  2. Irrigation Drainage
  3. Spring or groundwater
- D. The Contractor's employees assigned to the project site will keep pollution control measures identified in this plan and the Contractor's Erosion and Sediment Control Plan in good and effective condition during the construction period. Any controls that are not performing effectively will be promptly repaired or replaced.

### 3.3 INSPECTIONS

- A. The Engineer or their representative will inspect all disturbed areas of the construction site for evidence of or potential for pollutants entering the drainage system and for effectiveness of erosion control measures. The Engineer or their representative, during the progress of the work, may direct the installation of additional BMP's that they deemed necessary.

### 3.4 PLAN UPDATES

- A. The SWPP plan will be reevaluated to assess effectiveness of the implemented erosion control measures (BMP's). The plan will be revised and updated as needed to ensure that the intended purpose is achieved.

END OF SECTION

## **SECTION 1003**

### **SEDIMENT COLLECTION**

#### **PART 1      GENERAL**

**Amend Part 1.1.A to include:**

7.      Fiber Roll

**END OF SECTION**

**SECTION 1102**  
**STREET LIGHTING**

**PART 2 MATERIALS**

**Replace Part 2.2.A with the following:**

- A. Junction boxes shall be model number SGLB3048-36, manufactured by Channell Commercial Corporation, or approved equivalent, with Polymer Concrete Cover and Ring.

**PART 3 WORKMANSHIP**

**Replace Part 3.4.B.5 with the following:**

- 5. Locating wire shall be placed continuously the full length of the newly installed conduit, with the wire loop being a minimum of 30" long or long enough for the wire to extend above finish grade at each junction box location. Locate wire shall be secured so that it remains at the top of the conduit during and after pipe zone backfill. All splices shall be 3M Direct Bury Splice Kit DBR/y-6. No bare wire shall be exposed. Branch connections shall be made without cutting the main wire utilizing a connection clip and sealing the joint the same as splices. Contactor shall conduct a conductivity test on locating wire splices.

**Amend Part 3.4.B to include:**

- 9. The Contractor shall be responsible for testing the tracer wire system for conductivity. Testing for conductivity shall be completed prior to finish surfacing activities. If the tracer wire does not function as intended, the Contractor shall repair the system to the satisfaction of the Engineer.
- 10. Warning Tape: Warning tape shall be minimum 3 inches wide, orange with the words "Caution Buried \_\_\_\_\_ Below" corresponding with the type of conduit utility that it covers (power, telephone, fiber optic...). Tape shall be 12" above conduit.
- 11. Refer to City of Lewiston Standard Drawing 1-8 Identifying Tape Detail.

**END OF SECTION**

## SECTION 1103

### CONSTRUCTION TRAFFIC CONTROL

#### PART 1 GENERAL

##### Amend Part 1.1 to include:

- B. Temporary Traffic Control Plan: The contractor shall prepare the traffic control plan for the project and submit it to the City for approval. The traffic control plan provided in the contract documents may be utilized by the contractor. Any revisions to the recommended traffic control plan must be approved by the City. The plan shall allow continuous access of local traffic to homes and businesses.
- C. Temporary Traffic Control: The contractor shall furnish, erect, maintain and relocate as necessary traffic control devices and provide flagging as prescribed in the approved traffic control plan or as directed by the ENGINEER. The contractor shall retain ownership of all traffic control devices throughout the project and remove them when no longer needed.
- D. Pre-Notification Signage: The Contractor is to install Traffic Control Pre-notification signage. The signage will be installed one week prior to construction notifying the public of closure and detour schedules. The signs shall be 4' X 8' High Intensity black lettering on orange background. The text design shall be provided by the City. The contractor must notify all residents and businesses adjacent to the project one week prior to construction.
- E. Temporary Traffic Control Signage: Traffic Control Signage, Class B, costs shall be included in the bid item Construction Traffic Control, lump sum.
- F. Flaggers: The Contractor shall provide flaggers during construction working hours to close one lane of travel. The cost of the flagging shall be included in the bid item Construction Traffic Control, lump sum.

#### PART 3 WORKMANSHIP

##### Amend Part 3 to include:

##### 3.4 PROJECT REQUIREMENTS

- A. Closing of traffic lanes will be requested no less than ten (10) DAYS before lane closure is needed. The City will determine the length of time that one lane operation can be tolerated. The contractor shall provide a traffic control plan to the Engineer for review and approval ten (10) DAYS prior to commencement of work. Traffic control personnel and/or devices shall be in place, operational and approved by the Engineer prior to commencement of work. Traffic control devices shall be evaluated using the ATSSA "Quality Guidelines for Work Zone Traffic Control Devices" handbook.



- B. Traffic Control plans indicating the construction schedule, areas, and type of work to be performed for each street as indicated by the project area number, shall be submitted by the Contractor, and approved by the Engineer. The traffic control plans shall be specific for each area listed on the plan. The plans shall include any proposed lane closures and include all necessary traffic control devices and pavement markings. Each plan shall also address proposed measures to promptly deal with traffic delays due to emergencies, street incidents within the project limits, emergency vehicles, and scheduled school bus runs. A minimum of two (2) WORKING DAYS notice shall be given before any proposed change in the approved traffic control plans to allow time for review. The Contractor may close lanes using standard flagging operations in accordance with the current Manual on Uniform Traffic Control Devices, but is not allowed to close streets, unless receiving prior written approval by the Engineer.

END OF SECTION

## **SECTION 1104**

### **PERMANENT PAVEMENT MARKINGS**

#### **PART 3      WORKMANSHIP**

##### **Amend Part 3.2 to include:**

- F.      The contractor is to install thermoplastic and painted pavement markings per the Pavement Marking Detail Plan
- G.      All thermoplastic and painted pavement markings shall be pre-marked by a professional surveyor. The Engineer must approve the pre-marking layout prior to installation.

**END OF SECTION**

## SECTION 1105

### PERMANENT TRAFFIC SIGNING

#### PART 2 MATERIALS

##### Amend Part 2 to include:

##### 2.4 FLEXIBLE DELINEATORS

- A. Flexible delineators shall be 3.75-inch-wide fiberglass composite marker of the color specified on the plans meeting Section 712.10 in the Idaho Transportation Department 2018 Specifications.
- B. The sleeves for the delineators shall be manufactured with 3/16-inch steel with nominal inside dimensions of 4 inches x ½ inch and 8 inches long, so that the delineator be slide into the sleeve.

##### 2.5 REMOVABLE BOLLARDS

- A. Bollards shall be hot dipped galvanized steel, ASTM A36, with 1.8 ounces of zinc coating per square foot. Reflective tape shall be self-adhesive, 5 mil thick tape. Contractor shall submit shop drawing with welding details for approval prior to fabrication of the bollards.

#### PART 3 WORKMANSHIP

##### Amend Part 3.2 to include:

- C. Flexible delineator sleeves shall be inserted into the concrete or asphalt surface in locations show on the plans. Delineator sleeves shall be flush with the surrounding area.
- D. Bollards and their foundations shall be installed in accordance with the plans, or in accordance with manufacturers recommendations. All cuts and welds shall be round smooth. Bollards and receiver foundations shall be fabricated with openings to provide a lockable bollard when not removed. The receiver foundation shall be set in a minimum of 6 inches of concrete. The bottom of the receiver foundation shall include a drain hole to allow water to run through the receiver.

END OF SECTION

## SECTION 2010

### MOBILIZATION

#### PART 4 MEASUREMENT AND PAYMENT

Replace Part 4.1.A with the following:

- A. Mobilization: By the lump sum. Allowable amounts for partial payment of mobilization are as follows: 1. 60% of the contract unit price or 6% of the total contract amount, whichever is less, will be paid on the first monthly progress estimate. 2. 40% of the contract unit price or 4% of the total contract amount, whichever is less, will be paid on the second monthly progress estimate providing that productive work on the project has been initiated. 3. Upon completion of all work on the project, payment of any amount bid for mobilization in excess of 10% of the total original contract amount will be paid.

Total contract amount is defined as the original total of all bid items plus the cost of items paid for at invoice as shown on the original bid schedule.

1. Bid Schedule Payment Reference: **2010.4.1.A.1.**
2. Bid Schedule Description: **Mobilization...lump sum (LS).**

END OF SECTION

## **SECTION 2020**

### **SURVEY MONUMENTS**

#### **PART 1      GENERAL**

##### **Amend Part 1.1 to include:**

- B. Contractor to perform a search of monuments, whether they are visible or not that are anticipate being disturbed during construction. The contractor is to ensure that all monuments, which may be disturbed during construction, have been referenced.

**END OF SECTION**

**ISPWC – DIVISION 2000**

**MISCELLANEOUS**

**DELETE THE FOLLOWING ISPWC STANDARD DRAWINGS**

SD-2020A

SD-2020E

**REPLACE THE FOLLOWING ISPWC STANDARD DRAWINGS:**

SD-2020B WITH CITY OF LEWISTON STANDARD DRAWING 1-3

# **CITY OF LEWISTON**

## **STANDARDS FOR DEVELOPMENT PROJECT CERTIFICATION AND QUALITY CONTROL**

February 2026

## INTRODUCTION:

City ordinances and construction improvement agreements with developers require the Engineer of Record (Engineer), to be responsible and in-charge of project inspection and quality control for private developments, in which the improvements will be accepted for ownership by the City of Lewiston. The Engineer shall be a Professional Engineer licensed in the State of Idaho, designated by the project developer. The Engineer shall provide project inspection, material certifications, project certification, and Drawings of Construction Record that conform to these general guidelines.

The intent of these guidelines is to establish the responsibility of the developer's Engineer and to assure that the City of Lewiston is receiving constructed improvements that conform to the City of Lewiston Standards and Specifications (<https://www.cityoflewiston.org/382/Construction-Standard-Drawings>) and the project specifications. By assuring conformance with the project specifications, future maintenance and replacement costs to the citizens of Lewiston will be reduced, and overall safety to the general public improved.

While the Engineer may be under contract by the developer, their responsibility in carrying out construction oversight and quality control is to protect the public's interest in obtaining infrastructure that is constructed in compliance with the plans, standards, specifications and intent of the project. These guidelines are intended to establish a minimum standard and are not meant to supersede the Engineer's judgment because the need for additional project oversight will vary based on a number of factors, including: project certification, site conditions, project complexity, and the contractor's effort and performance.

The guidelines are not intended to cover every detail and specification the Engineer must carry out to insure the project is properly constructed. The City may impose more stringent oversight standards, and require more frequent project meetings with the Engineering Division, as appropriate.

### Use of Other Testing/Inspection Firms

The Engineer may employ services from other engineering or testing/inspection firms to assist in fulfilling the Engineer's required project certification responsibility; however, all field notes, test reports, and observations performed by others shall be incorporated into the Engineer's project certification.

The Engineer shall review and approve all test results and quality control measures used in certification of the project regardless of who performs the work.

### Coordination

The City will establish a representative from the City Engineering office (City Representative) for each project, to assist with clear and direct communication and decision-making during the course of construction.

The Engineer shall attend a pre-construction meeting with the Contractor and the City prior to the beginning of construction. The Engineer shall provide a project schedule to the City at the



pre-construction meeting. This schedule is to be updated during the course of the project.

Construction Drawings for the project are to be provided to the City in CAD format prior to the start of construction for GIS reference purposes.

The Engineer shall meet with the City Representative regularly throughout the project (typically weekly or bi-weekly), as established by the City to review the Engineer's oversight activities. At the regular meetings, the Engineer shall provide a review of the recent and upcoming construction activities (a three-week look ahead schedule) and present all inspection notes, test results, and other documentation relative to their construction oversight activities for the City Representative's review.

The City's working hours are Monday through Friday, 8:00 a.m to 5:00 p.m., excluding City holidays. The Owner or Owner's Representative shall provide 48 hours notification prior to the commencement of construction activities.

The Owner or Owner's Engineer shall notify the City Engineer's Office when all underground utilities are installed and the road base is in a condition which will enable all weather access to all manholes for CCTV inspection.

Paving of the streets is not allowed prior to completion of the following tasks:

- A. CCTV inspection of sewer mains by the City. Paid for by the Owner.
- B. CCTV inspection of storm drains by the City. Paid for by the Owner.
- C. Verification of sewer service taps by the City.
- D. Testing of any and all tracer wire for full circuit conductivity by contractor and observed by City.
- E. Hydrostatic pressure testing of all water mains, observed by the City.
- F. Pressure testing of all sanitary sewer, storm drainage, services and manholes observed by the City.
- G. Grout between all stormwater inlet frames and catch basin boxes.
- H. Provide all material verifications and compaction testing results/reports to the City.
- I. Approval from the Lewiston Orchards Irrigation District, Lewiston Orchards Sewer District, and/or Central Orchards Sewer District.

The Engineer shall provide all high accuracy data locations in a .csv (point number, northing, easting, elevation, description) file format. The coordinates shall be reported in reference to the City of Lewiston datum as established in Instrument Number 738222, Records of Nez Perce County, ID. A complete asset list with required fields and descriptions can be acquired from the City Representative.

The Engineer shall coordinate City Representative attendance for tests, acceptance inspections, and walkthroughs.

#### **ENGINEERING PROJECT CERTIFICATION:**

Project certification shall consist of a cover "certification letter" accompanying copies of all inspection and test reports, including the minimum inspection and testing standards for the

project's individual construction elements, and this certification shall be provided as electronic PDF documents (separate files required):

### Certification Statement

I (Engineer's Name, P.E.) certify that construction observation and quality control for (project, plans with approval date) was performed under my responsible charge. It is my professional opinion that the project was constructed in accordance with the intent of the plans and specifications. The submittal of Drawings of Construction Record and the attached documentation within the certification packet provide evidence to support a recommendation of acceptance of the public infrastructure associated with the referenced project plans and specifications.

(Provide Engineer's seal, signature and date.)

### INSPECTION/TESTING FORMAT:

- A. Daily Inspection Reports – provide copies of daily inspection reports, documentation and photographs in consecutive date format on a weekly basis. Descriptions of photos shall contain information sufficient to describe what the photo is showing and orient the viewer to a specific location and direction on the project (Example: Thrust Block on 8" main, 45 degree elbow, looking north at STA 12+45).
- B. Erosion Control – verify erosion control measures are in place and conform to the approved submitted erosion control plans prior to the start of construction, after storm events, and as required during the course of construction.
- C. Site Stripping/Mass Grading – provide copies of all inspections and approvals relative to site stripping and removal of unsuitable soils, along with all laboratory and field tests, and observation notes relative to placement of compacted fill and mass grading.
  - 1. Approval of site stripping and removal of unsuitable fill shall be provided prior to placement of structural fill.
  - 2. Mass grading is to be observed on a full or part-time basis within the proposed right-of-ways and utility easements, depending upon the nature of the activity, per the Inspection Checklist. All method specification compaction requires full-time inspection and shall be documented as such.
  - 3. Certification shall include a site map showing beginning and final topography, cut and fill areas, and the location and elevation of tests. A boundary survey of the area may be required, depending upon the complexity of the project.
  - 4. Check with the Building Official for requirements of documented fill for areas outside of the proposed right-of-ways and utility easements.
- D. Watermains/Sanitary Sewer Force mains:
  - 1. Underground work for watermain installation requires full-time observation and high-accuracy data points on all valves, fittings, services, hydrants, and other appurtenances as directed by staff.
  - 2. Observe pouring of thrust blocks, provide photos of all thrust blocks and construction

- of connections and restraint devices.
3. Verify materials comply with the Standards and Specifications and approve all fittings, valves, pipes, restraints, hydrants, and other appurtenances.
  4. Verification of all valve operations with the Water Division.
  5. Review and approve contractors proposed schedule and methods to pressure test. Observe and provide copies of the pressure test results per the Inspection Checklist.
  6. The Water Division performs new pipeline disinfection and bacteriological testing. AWWA C651 continuous feed method with liquid sodium hypochlorite is the preferred disinfection method which prohibits the contractors use of granular calcium hypochlorite in new pipelines because it is a safety hazard.
  7. The Water Division will sample and provide Bacteriological Test results per Inspection Checklist.
  8. See trench compaction requirements and the Inspection Checklist for additional information.
  9. All connections to existing infrastructure shall have that utility's representative present.
  10. Verify hydrant flows with City of Lewiston personnel.

E. Sanitary Sewer Mains:

1. Underground work for sewer mains requires full-time observation and high-accuracy data points on all services, inverts, manholes, risers, and other points critical to document underground installations.
2. Verify materials comply with the Standards and Specifications and approve all manholes, castings, fittings, and pipes.
3. Sewer main installation is to be observed to confirm continual consistency with pipe installation, bedding and compaction efforts.
4. Observe and provide copies of all pressure tests per the Inspection Checklist.
5. Review CCTV inspections and make recommendations for correction and/or acceptance. CCTV inspection is to be performed by the City of Lewiston Wastewater Department.
6. See trench compaction requirements and the Inspection Checklist for additional information.

F. Stormwater Collection:

1. Underground stormwater installation requires full-time inspection and high-accuracy data points on all inverts, manholes, catch basins, inlets, and other points critical to document underground installations.
2. Verify materials comply with the Standards and Specifications and approve all manholes, catchbasins, castings, fittings, and pipes.
3. Perform observation to verify proper construction methods.
4. Provide copies of all pressure testing.
5. Video inspection is to be performed by the City of Lewiston Wastewater Department. Review video of the sewer and make recommendations for correction and/or acceptance.
6. See trench compaction requirements and the Inspection Checklist for additional information.

G. Drainage Facilities:

1. Observation, testing, and approval of any required structures.
2. Verify materials comply with the Standards and Specifications.
3. Observation and approval of all drainage swales relative to size, grade, and elevations.
4. Approval of the function of all drainage swales to meet the design infiltration rates.
5. Flood testing and observation of infiltration may be required, based upon the nature of the project.

H. Trench Compaction:

1. Verify backfill material comply with the Standards and Specifications.
2. Perform observation to verify proper construction methods.
3. Trench backfill density test per Inspection Checklist, to verify observations.
4. All method specification compaction requires full-time inspection and shall be documented as such.

I. Sub-grade Inspection/Testing:

1. Sub-grade compaction is to be observed on a full or part-time basis, depending upon the nature of the activity.
2. All testing shall be per the Inspection Checklist.
3. Visual observations using sub-grade proof rolling are to be performed as necessary, or as required by the City Engineer.
4. Provide written acceptance of sub-grade, underlying material and utilities to the City prior to the addition of the aggregate base.

J. Base Coarse/Crushed Rock:

1. Roadway placement of material is to be observed on a full or part-time basis for compliance.
2. Verify materials comply with the Standards and Specifications. See Inspection Checklist.
3. Provide materials source and material test results, unless from an ITD approved source.
4. Compaction testing shall be provided per the Inspection Checklist.
5. Verify finish grade meets the specified geometry in the plans and approve for paving.

K. Asphalt Paving:

1. Full-time observations shall be performed during asphalt paving.
2. Verify materials comply with the Standards and Specifications. See Inspection Checklist.
3. Provide materials source and material test results, unless from an ITD approved source.
4. All testing shall be provided per the Inspection Checklist.
5. Provide flood testing as necessary or requested for the City to verify proper drainage. No ponding >0.25 inches is allowed. Testing shall be conducted with the City Representative present.
6. Monuments, utility lids and rings installed per standards.

L. Curb, Sidewalk and Above-Ground Structures/Surfacing:

1. Approvals of sub-grade, base, formwork, reinforcing, and grade prior to casting or

- placing structures.
  - 2. Verify materials comply with the Standards and Specifications. See Inspection Checklist.
  - 3. Observation of concrete and product finish quality during placement.
  - 4. Concrete testing shall be performed per the Inspection Checklist by a qualified technician and documentation of all tests provided to the City.
- M. Temporary Traffic Control Devices – verification that all signage, markings and other traffic control devices conform with the M.U.T.C.D. and have been placed per the Traffic Control Plan as approved through the City Engineer.
- N. Signage - The Owner shall pay for all street signage prior to installation by the City of Lewiston. The City will provide an invoice for payment before beginning work.
- O. Street Lighting – verification of the installation of street lighting per design and specification. Developer buy-down shall be paid to Avista Corporation prior to City acceptance.
- P. Lift Stations/PRVs/Traffic Signals/Other Items:
- 1. Full or part-time observation, depending upon the nature of the activity.
  - 2. Testing and observation to verify materials and performance, per specifications, prior to acceptance.
- Q. Street Trees/Landscaping:
- 1. Underground installation of irrigation requires high-accuracy data points on all valves, heads, main fittings, and other points critical to document underground installations.
  - 2. Provide observation of the installation of street trees, landscaping, and irrigation systems.
  - 3. Provide pressure test results, and verify irrigation system performance.
- R. Other Agencies' Project Approval – provide documentation of acceptance of facilities by other appropriate agencies or purveyors required to provide a complete project.

## PROJECT ACCEPTANCE:

<LIST OF REQUIREMENTS FOR PROJECT acceptance>

Drawings of Construction Record

Daily Inspection Reports Photos

CCTV of all sanitary/storm sewer infrastructure

Material Certifications per the City of Lewiston Inspection Checklist

Reports of all Acceptance items and tests per the Inspection Checklist

Certification Statement by Engineer of Record

Certification of Acceptance by Other Parties (Avista, LOID, COSD, LOSD, etc.)

Substantial Completion Punchlist provided and completed prior to City of Lewiston Final Completion Walkthrough.

Final Completion Walkthrough scheduled after submission of Drawings of Construction Record and attended by the Contractor, Engineer of Record, and City Representative.

Certificate of Final Completion  
Final Plat

The Engineer shall collect and neatly record accurate As-Built record information and prepare complete sealed Drawings of Construction Record and submit to GovWell for City review.

Upon City acceptance of the Drawings of Construction Record, Engineer shall supply the City with a Flash Drive, or file sharing link, containing AutoCAD files with record drawing linework. Once the above steps are completed, the City Engineer will review the Final Plat.

# ATTACHMENTS

# INFORMATION FOR THE DAILY REPORTS

A strong daily report should create a clear record of what happened on site that day. Below is an outline of what should be included.

## 1. Project Identification

- Project name and number
- Contract number
- Location
- Owner, contractor, and inspector/engineer name and/or company
- Date of report and report number
- Weather conditions (temperature, precipitation, wind)

## 2. Work Performed

- Description of work activities performed that day
- Specific locations (stationing, address, or phase)
- Quantities installed (e.g., LF of pipe, CY of concrete, tons of asphalt)
- Pay items worked on
- Subcontractor activities (if applicable)

## 3. Workforce and Equipment

- Number of workers on site (by trade, if relevant)
- Superintendent or foreman present
- Major equipment used (type and quantity)

## 4. Materials

- Materials delivered (type and quantity)
- Source or supplier (if relevant to compliance)
- Material certifications received
- Any rejected or damaged materials

## 5. Inspections and Testing

- Inspections performed
- Test results (compaction, concrete cylinders, pressure tests, etc.)
- Compliance with plans and specifications
- Any failed tests and corrective actions



## **6. Safety**

- Traffic control status
- Public safety issues

## **7. Delays or Impacts**

- Weather delays
- Utility conflicts
- Change conditions or unforeseen issues
- Owner-caused or contractor-caused delays
- Impacts to schedule

## **8. Communications**

- Significant discussions with contractor, residents, utilities, or agencies
- Directives issued
- Clarifications given
- Public complaints or inquiries

## **9. Changes / Extra Work**

- Field directives issued
- Documentation of differing site conditions

## **10. Photos and Attachments**

- Photo log (with descriptions and timestamps)
- Sketches or marked-up plans
- Test reports
- Delivery tickets

## **11. General Remarks**

- Anything unusual or noteworthy

DRAFT CITY OF LEWISTON STANDARDS UPDATE - PUBLIC COMMENT LOG

rev: 3.11.26

Public Comment Period: March 6, 2026 to April 6, 2026

| #                  | DATE RECEIVED | NAME                | EMAIL                                                                        | PHONE        | CITY        | COMMENT TYPE * | SECTION | NUMBER (DWG ONLY) | COMMENT/DESCRIPTION (as submitted)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | STAFF COMMENT                                                                                                     | ACTION TAKEN |
|--------------------|---------------|---------------------|------------------------------------------------------------------------------|--------------|-------------|----------------|---------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|
| <a href="#">1</a>  | 3/6/2026      | Alexander Pappas    | <a href="mailto:alexanderpappas68@gmail.com">alexanderpappas68@gmail.com</a> | N/A          | N/A         | GEN            | N/A     | N/A               | I agree that having this information recorded and described well is helpful but whatever you decide, make sure you still leave lots of room for varying levels of code compliance/ grandfather things in when it's good enough or an improvement from its prior state. Id hate to witness today's common sense decisions get disappear by these updated information requirements. In some cases too many detailed records of work done could lead to increased liability to the property owner, worker or city if someone looks for a reason to blame an accident or failure or because their name is Karen. I don't the answer but I appreciate smart people making decisions together without worrying more assuming work requirements will also increase because they always serm to. | Noted. Thank you very much for your feedback and appreciation for Lewiston as it is.                              | Noted.       |
|                    |               |                     |                                                                              |              |             |                |         |                   | Just find a way to not end up like Boise or Seattle please 🙄                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                   |              |
| <a href="#">2</a>  | 3/9/2026      | Josh Dunn           | <a href="mailto:josh@baldwinsigns.com">josh@baldwinsigns.com</a>             | 509-768-3161 | Spokane     | GEN            | N/A     | N/A               | Will there be more Divisions released over time for this exercise, or are you just focusing on divisions 1-7?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | This update includes all the current divisions of the City Standards. No new divisions are proposed at this time. | None.        |
| <a href="#">3</a>  | 3/10/2026     | Corey Switzer       | <a href="mailto:coreyswitzer@gmail.com">coreyswitzer@gmail.com</a>           | 218-461-9868 | Gibsonville | GEN            | N/A     | N/A               | I think that the City of Lewiston needs to address the bribery of Rick Fuentes, Andrew Fox and Nick Woods by Tim Krueger after I was assaulted by Troy Munstermann at Travelland RV before approval of any further projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not relevant to Standards Update.                                                                                 | None.        |
| <a href="#">4</a>  | 3/11/2026     | Laura Heimgartner   | <a href="mailto:dhc7const@gmail.com">dhc7const@gmail.com</a>                 | 208-305-1224 | Asotin      | GEN            | N/A     | N/A               | Want to stay updated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Already included in contact list for contractors, consultants, etc.                                               |              |
| <a href="#">5</a>  | 3/12/2026     | Staff               | NA                                                                           | NA           | Lewiston    | DWG            | 1       | 1-7               | Add note: "Restore damaged or removed pavement markings."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   | Added.       |
| <a href="#">6</a>  | 3/12/2026     | Staff               | NA                                                                           | NA           | Lewiston    | DWG            | 5       | 5-3, 5-4          | Add note: "Pipes shall be flush with the inside wall of manhole and grouted all around."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   | Added.       |
| <a href="#">7</a>  | 4/6/2026      | ADA Transition Plan | NA                                                                           | NA           | Lewiston    | DWG            | 3       | 3-11              | Revise to 5' wide sidewalk. Add note: "Gutter not included." to note 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   | Revised.     |
| <a href="#">7</a>  | 4/6/2026      | ADA Transition Plan | NA                                                                           | NA           | Lewiston    | DWG            | 5       | 5-4               | Create Note 8: "Pipes shall be flush with the inside wall of manhole and grouted all around."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                   | Added.       |
| <a href="#">9</a>  | 4/6/2026      | Staff               | NA                                                                           | NA           | Lewiston    | DWG            | 5       | 5-6               | Change "Grout" to "Mastic" in callout pointing to ring and grade rings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   | Revised      |
| <a href="#">10</a> |               |                     |                                                                              |              |             |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                   |              |
| <a href="#">11</a> |               |                     |                                                                              |              |             |                |         |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                   |              |

\* "GEN" = General (Overall);  
"DWG" = Specific Comment on Standard Drawing;  
"MOD" = Specific Comment on Modifications to ISPWC;  
"DEV" = Specific Comment on Development Project Certification and Quality Control

|                                              |                                    |                         |                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                              |                                    |                         |                                                                                                                                                                                                              |
| <b>STANDARD DRAWINGS REVISIONS LIST 2026</b> |                                    |                         |                                                                                                                                                                                                              |
|                                              |                                    |                         |                                                                                                                                                                                                              |
| <b>Section 1: General Standards</b>          |                                    | <b>Current Std Date</b> | <b>Proposed Changes</b>                                                                                                                                                                                      |
| 1-1                                          | Utility Locations                  | March '13               | Grammatical corrections                                                                                                                                                                                      |
| 1-2                                          | Utility Pedestal & Trench Detail   | February '09            | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate<br>2. Rename utilities Communications in cross section.                                                                                            |
| 1-3                                          | Street Monument w/ Frame & Cover   | December '17            | Revise note to call for ISPWC Type 1 Crushed Aggregate                                                                                                                                                       |
| 1-4                                          | Back Fill – Class 'A'              | March '13               | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate<br>2. Grammatical Revision                                                                                                                         |
| 1-5                                          | Back Fill – Class 'C'              | March '13               | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate<br>2. Grammatical Revision                                                                                                                         |
| 1-6                                          | Back Fill – Class 'D'              | March '13               | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate<br>2. Grammatical Revision                                                                                                                         |
| 1-7                                          | Back Fill – Class 'F'              | March '13               | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate<br>2. Grammatical Revision                                                                                                                         |
| 1-8                                          | Identifying Tape Detail            | February '16            | 1. Revise note: "Pressure sewers and nonlinear utilities or utilities ending without a structure and waterlines must have both identifying tape and tracer wire (see note below)."<br>2. Grammatical Changes |
| 1-9                                          | Concrete Street Repair Detail      | February '09            | Require 6" concrete on surface.                                                                                                                                                                              |
| 1-10                                         | Adjust Utilities                   | December '17            | 1. Dimension 3" from surface to rebar.<br>2. Dimension 8" Min. from edge of valve box to edge of adjustment.<br>3. Dimension 6" from rebar to outside edge of concrete.                                      |
| 1-11                                         | Curbside Mailbox Detail            | February '09            | 1. Adjust dimension to 4' min. clear distance around mailbox.<br>2. Adjust dimension to 41"-45" from street to bottom of mailbox.                                                                            |
| 1-12                                         | Clear Vision Area                  | February '09            | Add note: This does not include site distances. Site distances shall be enumerated seperately per ASSHTO guidelines.                                                                                         |
| 1-13                                         | Disabled Parking Sign Installation | February '09            | 1. Revise note to reference Idaho requirements                                                                                                                                                               |
| 1-14                                         | Disabled Parking Stalls            | February '09            | 1. Add dimension from sign to parking bumper/curb                                                                                                                                                            |
| 1-15                                         | Parking Layout Dimensions          | April '20               |                                                                                                                                                                                                              |

|                                      |                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------|---------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-16                                 | Parking Lot Section                   | February '09 | 1. Revise note to call for ISPWC Type 1 Crushed Aggregate                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1-17                                 | Sidewalk Drain Detail                 | March '21    | 1. Delete.<br>2. Renumber DWG to 2-22.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Section 2: Concrete Standards</b> |                                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2-1                                  | Driveway Location & Width Requirement | December '15 | 1. Revise to 5' TYP sidewalk<br>2. Revise to 2% Max cross slope                                                                                                                                                                                                                                                                                                                                                                                             |
| 2-2                                  | Retention Swale                       | December '15 | 1. Revise to 5' TYP sidewalk<br>2. Revise to 2% Max cross slope<br>3. Move Detail Cross-Section left and add detail of note 7<br>4. Adjust Sidewalk up 2" as note 6 says<br>5. Revise notes to call for ISPWC Type 2 drainage geotextile<br>6. Dimension swale width to "varies"<br>7. Extend rundown lines through curbs to denote control joints.<br>8. Changed note and callout from "detail" to "dwg"                                                   |
| 2-2A                                 | Narrow Retention Swale                | December '15 | 1. Revise to 5' TYP sidewalk<br>2. Dimension swale width to "varies"<br>4. Add callout: Dish out rock around inlet apron.<br>5. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>6. Reference spec for round river rock.<br>7. Extend rundown lines through curbs to denote control joints.<br>8. Changed note and callout from "detail" to "dwg"<br>9. Moved Sidewalk 0.12' higher to show note 5<br>10. Ditched rock hatch around inlet apron. |
| 2-3                                  | Inlet Apron                           | June '10     | 1. Add callout: Dish out rock around inlet apron.<br>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>3. Extend rundown lines through curbs to denote control joints.                                                                                                                                                                                                                                                                         |
| 2-4                                  | Valley Gutter                         | February '09 | 1. Make bottom of Valley Gutter parallel with Top of Valley Gutter                                                                                                                                                                                                                                                                                                                                                                                          |

|      |                                              |               |                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-5  | Detectable Warning for Pedestrian Access     | September '10 | 1. Replaced with ISPWC SD-712 and wrote color into the Modifications, 706.                                                                                                                                                                                                          |
| 2-6  | General Notes for All Types of Curb & Gutter | February '13  | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Grammatical changes<br>3. Revise note 11.<br>4. Delete note 12. E.<br>5. Add note 13.                                                                                                                             |
| 2-7  | High Back Curb and Rolled Curb & Gutter      | February '09  | Replace with ISPWC SD-701 and SD-704.                                                                                                                                                                                                                                               |
| 2-8  | Concrete Sidewalk                            | August '15    | 1. Revised to 5' min. sidewalk width.<br>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>3. Revise Note 4: ...6"-8" Lift...<br>4. Add to note 7: Failure to notify the Public Works Dept. is grounds for rejection.<br>5. Delete Note 10.<br>6. Grammatical Changes. |
| 2-9  | Pedestrian Curb & Type 'A' Curb              | February '09  |                                                                                                                                                                                                                                                                                     |
| 2-10 | Depressed Curb Section                       | March '09     | 1. Revise slope of gutter at DRIVEWAY ENTRANCES to "Match Gutters".<br>2. Add berm to SIDEWALK RAMP                                                                                                                                                                                 |
| 2-11 | Sidewalk Ramp Type 1                         | September '10 | 1. Revise Note 3: ...2% MAX. SLOPE...<br>2. Delete Note 5.                                                                                                                                                                                                                          |
| 2-12 | Sidewalk Ramp Type 2                         | March '17     | 1. Delete Table.<br>2. Revise ramps slopes to "1:12 MAX".<br>3. Revise to 5' min. sidewalk width<br>4. Revise notes to 2% MAX SLOPE.<br>5. Delete Note 5.<br>6. Annotate R/W.<br>7. Dimension 6" from back of walk.                                                                 |
| 2-13 | Sidewalk Ramp Type 3                         | September '10 | 1. Revise notes to 2% MAX SLOPE.<br>2. Delete Note 5.<br>3. Annotate R/W.<br>4. Dimension 6" from back of walk.<br>5. Revised dimensions of walk.                                                                                                                                   |
| 2-14 | Single Perpendicular Ramp with Buffer        | September '10 | 1. Revise notes to 2% MAX SLOPE.<br>2. Delete Note 5.<br>3. Annotate R/W.<br>4. Dimension 6" from back of walk.<br>5. Revised dimensions of walk.                                                                                                                                   |

|                                    |                                                     |               |                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-15                               | Single Perpendicular Ramp without Buffer            | September '10 | <ol style="list-style-type: none"> <li>1. Revise notes to 2% MAX SLOPE.</li> <li>2. Delete Note 5.</li> <li>3. Annotate R/W.</li> <li>4. Dimension 6" from back of walk.</li> <li>5. Revised dimensions of walk.</li> </ol>                                                   |
| 2-16                               | Driveway Approach - Split Apron Sidewalk            | February '13  | <ol style="list-style-type: none"> <li>1. Revise to 5' min. sidewalk width.</li> <li>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>3. Revise annotations.</li> <li>4. Format cleanup.</li> <li>5. Grammatical revisions.</li> </ol>                    |
| 2-17                               | Driveway Approach - Buffer Strip                    | February '13  | <ol style="list-style-type: none"> <li>1. Revise to 5' min. sidewalk width.</li> <li>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>3. Revise annotations.</li> <li>4. Format cleanup.</li> </ol>                                                       |
| 2-18                               | Driveway Approach - Jogged Sidewalk                 | January '18   | <ol style="list-style-type: none"> <li>1. Revise to 5' min. sidewalk width.</li> <li>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>3. Draw curb shape to show curb/flowline.</li> <li>4. Corrected hatch void.</li> <li>5. Format cleanup.</li> </ol>  |
| 2-19                               | Driveway Approach - Wide Sidewalk                   | February '13  | <ol style="list-style-type: none"> <li>1. Revise to 8' min. sidewalk width.</li> <li>2. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>3. Draw curb shape to show curb/flowline.</li> <li>4. Grammatical revisions.</li> <li>5. Format cleanup.</li> </ol> |
| 2-20                               | Typical Two-way Arterial Street Driveway Approach   | March '09     |                                                                                                                                                                                                                                                                               |
| 2-21                               | Large Lot Driveway Requirements                     | November '24  |                                                                                                                                                                                                                                                                               |
| 2-22                               | Sidewalk Drain Detail                               | March '21     | <ol style="list-style-type: none"> <li>1. Renumbered to 2-22 (Delete duplicates 1-17 and 6-12).</li> </ol>                                                                                                                                                                    |
| <b>Section 3: Street Standards</b> |                                                     |               |                                                                                                                                                                                                                                                                               |
| 3-1                                | Private Shared Driveway: 30' Common Access Easement | March '17     | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Revise Note 8: delete "which is not looped".</li> </ol>                                                                                                        |
| 3-2                                | Orchard Residential Street: Two 10' Travel Lanes    | March '17     | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Call out C&amp;G as "ROLLED CURB DWG SD-702.</li> </ol>                                                                                                        |

|      |                                                              |              |                                                                                                                                                                                                          |
|------|--------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-3  | Local Residential Street: Infiltration Drainage              | January '15  | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Annotate park lanes                                                                     |
| 3-4  | Local Residential Street                                     | January '15  | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add 2% slope and arrow across planter strip.<br>3. Annotate Park lanes                                                                 |
| 3-5  | <u>&lt; 500' Cul-De-Sac Roadway w/ Infiltration Drainage</u> | March '17    | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.                                                                                               |
| 3-6  | <u>&lt; 500' Cul-De-Sac Roadway</u>                          | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Add 2% slope and arrow across planter strip.                                            |
| 3-7  | Cul-de-sac Design                                            | February '09 |                                                                                                                                                                                                          |
| 3-8  | Residential Collector w/ Infiltration Drainage               | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Add "PARK LANE" under 8' dimensions.                                                    |
| 3-9  | Residential Collector                                        | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Add 2% slope and arrow across planter strip.<br>4. Add "PARK LANE" under 8' dimensions. |
| 3-10 | Paved Alley                                                  | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add "See Note 4" to callout<br>3. Gramatical changes to note 4<br>4. Make valley gutter bottom profile parallel with top               |
| 3-11 | Local Commercial w/ Infiltration Drainage                    | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Add "PARK LANE" under 8' dimensions.                                                    |

|                                   |                                                  |              |                                                                                                                                                                                                                  |
|-----------------------------------|--------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-12                              | Local Commercial                                 | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Revise dimensions for 5' sidewalk width.<br>3. Add 2% slope and arrow across planter strip.<br>4. Add "PARK LANE" under 8' dimensions.         |
| 3-13                              | Industrial & Commercial Collector                | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add 2% slope and arrow across planter strip.<br>3. Add "PARK LANE" under 8' dimensions.<br>4. Revise dimensions for 5' minimum sidewalk width. |
| 3-14                              | Minor Arterial                                   | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add 2% slope and arrow across planter strip.<br>3. Add "PARK LANE" under 8' dimensions.                                                        |
| 3-15                              | Corner Radius                                    | February '09 |                                                                                                                                                                                                                  |
| 3-16                              | Typical Rural Roadway (within Impact Area)       | February '09 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.                                                                                                                                                      |
| 3-17                              | Curb Extension & Mid-block Choker                | November '12 | 1. Revise notes to call for ISPWC type 2 drainage geotextile                                                                                                                                                     |
| <b>Section 4: Water Standards</b> |                                                  |              |                                                                                                                                                                                                                  |
| 4-1                               | Potable & Non-potable Waterline Separation       | November '09 | Replace with ISPWC SD-407.                                                                                                                                                                                       |
| 4-2                               | Gate Valve Box w/ Assembly                       | November '09 | 1. Add "SEE DWG. NO. 1-8" to callout.<br>2. Revise "LOCATE WIRE" to "TRACER WIRE"                                                                                                                                |
| 4-3                               | Combination Blow Off & Sampling Tap              | November '09 | 1. Add "TEMPORARY" to dwg title.<br>2. Scale up dimension and leader arrows                                                                                                                                      |
| 4-4                               | Thrust Blocking Detail                           | November '09 | Replace with ISPWC SD-403                                                                                                                                                                                        |
| 4-5                               | Typical Water Meter or Utility Marker Location   | February '15 |                                                                                                                                                                                                                  |
| 4-6                               | ¾ " Water Service Connection                     | December '24 | Move dimension to top of radius.                                                                                                                                                                                 |
| 4-7                               | 1" Water Service Connection                      | December '24 | Move dimension to top of radius.                                                                                                                                                                                 |
| 4-8                               | 1 ½ " Water Service Connection                   | December '24 | Move dimension to top of radius.                                                                                                                                                                                 |
| 4-9                               | 2 " Water Service Connection                     | December '24 | Move dimension to top of radius.                                                                                                                                                                                 |
| 4-10                              | Double Check Valve Assembly for 2 " or Smaller   | February '15 | Remove                                                                                                                                                                                                           |
| 4-11                              | Double Check Valve Assembly for 2 1/2" or Larger | February '15 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.                                                                                                                                                      |
| 4-12                              | Fire Hydrant w/ Shut-off Valve                   | October '13  | Grammatical Change                                                                                                                                                                                               |



|                                              |                                               |              |                                                                                                                                                                                                                                                         |
|----------------------------------------------|-----------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Section 5: Wastewater Standards</b>       |                                               |              |                                                                                                                                                                                                                                                         |
| 5-1                                          | Wastewater Private Service Connection         | December '10 | 1. Change steel post callout to "4" GREEN PIPE".                                                                                                                                                                                                        |
| 5-2                                          | Service Tap Options                           | December '10 | 1. Add insert-a-tee detail.<br>2. Add Romac detail.<br>3. Delete PVC Saddle Wye option.<br>4. Add Note 3: RUBBER FERNCO TYPE COUPLINGS ONLY ALLOWED WITH CITY ENGINEER APPROVAL.<br>5. Add Note 4: ROMAC SADDLES ONLY ALLOWED ON CLAY PIPE CONNECTIONS. |
| 5-3                                          | Type 1 Manhole Details                        | December '24 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add callout: INSTALL MASTIC SEALANT IN ALL JOINTS.                                                                                                                                    |
| 5-4                                          | Type 1A Manhole (Shallow MH)                  | December '24 | 1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.<br>2. Add callout: INSTALL MASTIC SEALANT IN ALL JOINTS.                                                                                                                                    |
| 5-5                                          | Pressure Wastewater System Service Connection | December '10 | Revise to conform with plumbing code.                                                                                                                                                                                                                   |
| 5-6                                          | Concrete Manhole Collar                       | January '15  | Revise callout to: ..."MASTIC" between ring...<br>Format cleanup                                                                                                                                                                                        |
| 5-7                                          | Manhole Frame & Cover                         | November '12 | Revise dim. to 4 1/2"                                                                                                                                                                                                                                   |
| 5-8                                          | Manhole Channel Details                       | December '10 | Grammatical Revisions                                                                                                                                                                                                                                   |
| <b>Industrial Pretreatment Section [IPS]</b> |                                               |              |                                                                                                                                                                                                                                                         |
| I-1                                          | 1000 Gallon Grease Interceptor                | June '10     |                                                                                                                                                                                                                                                         |
| I-2                                          | 1000 Sand Oil/Water Separator                 | June '10     |                                                                                                                                                                                                                                                         |
| I-3                                          | 1500 Gallon Grease Interceptor                | June '10     |                                                                                                                                                                                                                                                         |
| I-4                                          | 1500 Sand Oil/Water Separator                 | June '10     |                                                                                                                                                                                                                                                         |
| I-5                                          | 2000 Gallon Grease Interceptor                | June '10     |                                                                                                                                                                                                                                                         |
| I-6                                          | 2000 Sand Oil/Water Separator                 | June '10     |                                                                                                                                                                                                                                                         |
| I-7                                          | 2500 Gallon Grease Interceptor                | June '10     |                                                                                                                                                                                                                                                         |
| I-8                                          | 2500 Sand Oil/Water Separator                 | June '10     |                                                                                                                                                                                                                                                         |
| I-9                                          | 3000 Gallon Grease Interceptor                | June '10     |                                                                                                                                                                                                                                                         |
| I-10                                         | 3000 Sand Oil/Water Separator                 | June '10     |                                                                                                                                                                                                                                                         |
| I-11                                         | Sand Trap                                     | June '10     |                                                                                                                                                                                                                                                         |
| I-12                                         | Interceptor/ Separator Manhole Frame & Cover  | June '10     |                                                                                                                                                                                                                                                         |
| <b>Section 6: Stormwater Standards</b>       |                                               |              |                                                                                                                                                                                                                                                         |
| 6-1                                          | System General Notes                          | November '16 | 1. Revise Note 7: Delete "STEEL".<br>2. Revise Note 10: Add "ADDITIONAL EASEMENT WIDTH MAY BE REQUIRED FOR MAINTENANCE OPERATIONS."<br>3. Grammatical Changes.                                                                                          |

|                               |                                                  |               |                                                                                                                                                                                                                                                                                             |
|-------------------------------|--------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-2                           | Type 1 Manhole                                   | December '24  | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Revise "SEWER" TO "STORM".</li> <li>3. Add "INSTALL MASTIC SEALANT IN ALL JOINTS" Callout</li> <li>4. Revise note 1 delete "AND SHALL BE GROUTED FROM THE INSIDE"</li> </ol> |
| 6-3                           | Type 1A (Shallow) Manhole                        | December '24  | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Add callout: INSTALL MASTIC SEALANT IN ALL JOINTS.</li> <li>3. Revise Note 3: Add " AND GROUTED SMOOTH, INSIDE AND OUT.</li> <li>4. Delete Note 4.</li> </ol>                |
| 6-4                           | Manhole Concrete Collar                          | December '24  | <ol style="list-style-type: none"> <li>1. Dimension from surface to rebar as 4".</li> <li>2. Revide "GROUT" callout to "MASTIC"</li> <li>3. Add 2" to adjustment ring callout</li> <li>4. Revise manhole utility label.</li> </ol>                                                          |
| 6-5                           | Manhole Frame and Cover                          | December '10  | <ol style="list-style-type: none"> <li>1. Gramatical changes</li> <li>2. Revise Manhole Utility label</li> </ol>                                                                                                                                                                            |
| 6-6                           | General Catch Basin Notes                        | December '10  | <ol style="list-style-type: none"> <li>1. Delete Note 2.</li> <li>2. Revise note 9. "NON-SHRINK GROUT" to "MASTIC"</li> </ol>                                                                                                                                                               |
| 6-7                           | Catch Basin Frame and Grate                      | November ' 13 | <ol style="list-style-type: none"> <li>1. Add callout: "One 2" Riser Min."</li> <li>2. Gramatical changes.</li> </ol>                                                                                                                                                                       |
| 6-8                           | Type 1 Catch Basin                               | December '10  | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Delete weep holes callout and lines.</li> <li>3. Gramatical changes</li> </ol>                                                                                               |
| 6-9                           | Type 1A (Shallow) Catch Basin and Reduction Slab | December '10  | <ol style="list-style-type: none"> <li>1. Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Delete weep holes callout and lines.</li> <li>3. Gramatical changes</li> </ol>                                                                                               |
| 6-10                          | Standard Curb Drop Inlet                         | December '10  | <ol style="list-style-type: none"> <li>1. Page 1 &amp; 2: Revise notes to call for ISPWC Type 1 Crushed Aggregate.</li> <li>2. Page 2: Grammatical change.</li> </ol>                                                                                                                       |
| 6-11                          | Special Curb Inlet Type '2"                      | December '10  |                                                                                                                                                                                                                                                                                             |
| 6-12                          | Sidewalk Drain Detail                            | December '10  | <ol style="list-style-type: none"> <li>1. Delete. Renumbered to 2-22.</li> </ol>                                                                                                                                                                                                            |
| <b>Section 7: Solid Waste</b> |                                                  |               |                                                                                                                                                                                                                                                                                             |
| 7-1                           | 14'x10' Refuse Container Storage Area            | October '10   |                                                                                                                                                                                                                                                                                             |
| 7-2                           | 10'x10' Refuse Container Storage Area            | October '10   |                                                                                                                                                                                                                                                                                             |