

Tuesday, June 11, 2024
City Council Meeting - Hybrid (In-Person & Electronic)

7:00 PM

#2139 Regular City Council Meeting - Hybrid (In-Person & Electronic)

In-Person at College Place City Hall, 625 S College Avenue, College Place Washington

Meeting may be viewed at: Live Stream on City of College Place, Washington YouTube at https://www.youtube.com/channel/UCbx3qrqzLDL_05NusReSI-g/featured

Zoom Attendee Link: <https://us06web.zoom.us/j/85698391902>

Or you may call this number to listen: 1-669-900-9128 ID# 856 9839 1902 Phone controls: *6 - toggle mute/un-mute and *9 - raise hand

1. Opening Items.

Subject :	1.01 Call To Order
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	1. Opening Items.
Access :	Public
Type :	Procedural

Public Content

Mayor Hernández will call the meeting to order.

Subject :	1.02 Roll Call
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	1. Opening Items.
Access :	Public
Type :	Procedural

Public Content

Mayor Norma L. Hernández

Paul T. Jessup,

Michael Cleveland,

Tito Espinoza Jr.,

Council Members Loren Peterson,

Monica Boyle

Public Content

Council meetings are primarily structured to permit Council Members to arrive at the decisions necessary to govern the City.

Meeting Protocol for Public Comment:

When submitting public comments, include the following information regardless of the manner you are using: (Note that there are deadlines for written comments to be included in the meeting documents.)

- Your Name
- Your Address

Written Public comments may be provided by submitting comment to Clerk@cpwa.us no later than 4:30 PM on the meeting date to be included in the record. (If typewritten, no less than 11 pt font).

Verbal Public Comments may be made during the meeting:

- In-person at the meeting location - provided at the beginning of each agenda.

Telephone and Virtual Comments:

Any member of the public who desires to make a public comment at the City Council meeting by telephone or remote access shall provide at least 24 hours notice (excluding weekends and holidays) prior to the start of the meeting at which the member of the public wants to make a comment, notify the City Clerk or designee in writing or by direct verbal communication of their desire to make a comment. Those notice shall include the member's first and last name, address or place of residence, and the topic or topics the comment will touch upon.

- Telephone comment - Call 1-669-900-9128, entering the meeting ID (provided at beginning of agenda) and raise your hand (*9 to raise hand, *6 to mute/un-mute) when comments are requested.
- Virtual comment - Join using the Zoom Attendee link (provided at beginning of agenda) and raise your hand when comments are requested.

Once recognized, you will have five minutes to speak on any subject that is under the control of the Council.

2. Consent Agenda.

Subject :	2.01 AB 24140 - Approve Agenda for June 11, 2024
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.
Access :	Public
Type :	Action (Consent)
Recommended Action :	Motion to approve agenda for June 11, 2024.

Consent

Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.

Subject :	2.02 AB 24141 - Approve Council Meeting Minutes from May 28, 2024
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.

Access :	Public
Type :	Action (Consent), Minutes
Recommended Action :	Motion to approve Council Meeting minutes from May 28, 2024.

File Attachments

[2024-5-28_Council_Meeting_Minutes_Draft_BoardDocs® Plus.pdf \(854 KB\)](#)

Consent

Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.

Subject :	2.03 AB 24142 - Approve Council Workshop Minutes from June 4, 2024
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.
Access :	Public
Type :	Action (Consent), Minutes
Recommended Action :	Motion to approve Council Workshop minutes from June 4, 2024.

File Attachments

[2024-6-4_Council_Workshop_Minutes_Draft_BoardDocs® Plus.pdf \(741 KB\)](#)

Consent

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Subject :	2.04 AB 24143 - Standards and Specifications Update
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.
Access :	Public
Type :	Action (Consent)
Preferred Date :	Jun 11, 2024

Absolute Date :	Jun 11, 2024
Fiscal Impact :	No
Recommended Action :	Motion to approve Resolution No. 24-047 adopting the June 2024 update to the City of College Place Standard Specifications and Drawings as attached in Appendix A.

Public Content

Historical Perspective:

City staff and JUB Engineers have been working on updates to the City's Standards and Specifications. Generally the Standards and Specifications are reviewed and updated yearly or as needed.Council approved the most recent update in April 2023.

Information for Consideration:

City staff and JUB Engineers have made a few clerical corrections and amendments, updated standard street specifications, water system specifications, sanitary sewer specifications, storm sewer specifications, parking lot specifications, and added new Park standards.

Redline updates indicating the changes are attached for reference.

File Attachments

- [COCP Update Std_042224.pdf \(5,550 KB\)](#)
- [COCP Specs-redlines_042224.pdf \(2,622 KB\)](#)
- [Appendix A - Final Standards.pdf \(21,777 KB\)](#)
- [Res_No_24-047_College_Place_Standards_and_Specifications_Update_2024-6-11.pdf \(19,355 KB\)](#)

Consent

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Subject :	2.05 AB 24144 - Appointment Confirmation of Angie Peters to the Planning Commission
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.
Access :	Public
Type :	Action (Consent)
Recommended Action :	Motion to approve the appointment Angie Peters to the Planning Commission.

Consent

Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.

Subject :	2.06 Approve Consent Agenda - Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure 4th Edition, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	2. Consent Agenda.
Access :	Public
Type :	Action (Consent)
Recommended Action :	Motion to approve the consent agenda

Consent

Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.

3. Presentations.

Subject :	3.01 AB 24145 - College Place Employee Years of Service - Rescheduled for the June 25, 2024 Council Meeting - Mayor Hernández
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	3. Presentations.
Access :	Public
Type :	Information

Public Content

Information for Consideration:

Due to illness and other factors, this item has been rescheduled for the June 25, 2024 Council Meeting.

Mayor Hernández will present the following employees their Certificates of Appreciation and pins:

- Fire Marshall, John Boose, recently celebrated 25 years of employment with the City of College Place.
- Public Works Street Worker III, RandyChamberlain, recently celebrated 45 years of employment with the City of College Place.
- Building Official, Scott Hall, recently celebrated 20 years of employment with the City of College Place.

Subject :	3.02 AB 24146 - Juneteenth Proclamation - Mayor Hernández
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	3. Presentations.
Access :	Public
Type :	Information

Public Content

Information for Consideration:

Mayor Hernández will read the Juneteenth Proclamation.

File Attachments

[2024_Juneteenth_Proclamation_2024-6-11.pdf \(282 KB\)](#)

4. Public Hearings. - None

5. Action Items.

Subject :	5.01 AB 24147 - Establishing Mandatory Minimums for Repeat Criminal Offenders - Ms. Culwell
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	5. Action Items.
Access :	Public
Type :	Action
Recommended Action :	Motion to Approve Ordinance No. 24-006 Amending College Place Municipal Chapter 9.04 to Establish Mandatory Minimum Sentences for Repeat Offenders.

Public Content

Historical Perspective:

Currently, the City prosecutes the following misdemeanor and gross misdemeanor crimes (minimum jail and fine listed for each):

- Theft (theft of property or services valued at \$750 or less); minimum punishment is 0 days in jail and \$0 fine.
- Trespass; 0 jail/\$0 fine
- Vehicle Prowl; 0 jail/ \$0 fine
- Malicious Mischief (intentional damage to property - e.g. tagging); minimum punishment is 0 days in jail and \$0 fine.
- Public Disorder (disorderly conduct); 0 jail/\$0 fine;
- Indecent exposure; 0 jail/ \$0 fine.

Over the past year+, the frequency of thefts and attempted thefts from Walmart have increased. Offenders are getting more sophisticated in how they steal from Walmart, including stealing when officers are out on other calls, stealing when law enforcement and/or Walmart loss prevention staff are dealing with a suspected theft, calling in false reports of an emergency to divert law enforcement from investigating thefts, having individuals distract Walmart loss prevention for others to steal, and having multiple individuals steal at the same time. All activities are intended to capitalize on our community's relatively small police force. These individuals know that even if they are caught, there is little if nothing to deter them from stealing again. Staff is seeing offenders from the Tri-Cities area coming to the College Place Walmart to steal.

In addition, the City is seeing more incidents of trespass.

Routinely, the City will have a rash of tagging done on City and sometimes private property.

Usually it is the doing of one individual or group of individuals and often they are identified as serial taggers - police know who the identity of the offender.

Information for Consideration:

It is the City Attorney's experience that, the current criminal sentencing structure and practice for these crimes when committed over and over by the same individual is insufficient to deter recidivism - a goal of criminalizing behavior. Theft from Walmart impacts not only Walmart's ability to operate in our community, but also impacts other retailer's decision to come to and stay in our community. If the loss rate is too high compared to another location, a retailer would choose the other location. Walmart is a crucial part of College Place's ability to serve our community and Walmart serves as a necessary retail for our community, offering affordable prices for life necessities.

City staff recommend passing the Ordinance to set minimum sentences for repeat offenders to summarize:

Any individual convicted of Public Disorder Crime (misdemeanor trespass, public disorder, theft, malicious mischief, public disturbance, indecent exposure, or false reporting; attempt, solicitation, and conspiracy to commit the aforementioned crimes; and attempt, solicitation, and conspiracy to commit class C felony violations of chapter 9A.52 (burglary and trespass), 9A.56 (theft and robbery), 9A.84 (false reporting), 9A.88 (indecent exposure), 9A.48 (arson, reckless burning, malicious mischief)), who has been convicted of a prior Public Disorder Crime in Washington state within the previous 3 years must be sentenced to 30 days in jail. The offender can petition the court to convert jail time to behavioral health (mental/substance abuse) treatment and/or community service.

Council discussed a two year period, however it is the City Prosecutor's experience that offenders facing mandatory incarceration will not avail themselves of the judicial process (delay

the case) such that it often takes years to secure a disposition of a matter; A three year lookback is necessary to achieve the goal of reducing recidivism and deterrence.

File Attachments

[Ord_No_24-006_Amending_Chapter_9.](#)
[04_Establishing_Mandatory_Minimum_Repeat_Criminal_Offenders_2024-6-11.pdf \(141 KB\)](#)
[Exhibit_A_CPMC_Mandatory_Minimums.pdf \(66 KB\)](#)

Subject :	5.02 AB 24148 - Award the Post Office Crosswalk and Ash Street Realignment Project - Mr. McAndrews
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	5. Action Items.
Access :	Public
Type :	Action
Preferred Date :	Jun 11, 2024
Absolute Date :	Jun 11, 2024
Fiscal Impact :	Yes
Dollar Amount :	\$247,086.84
Budgeted :	Yes
Budget Source :	WSDOT Ped and Bike Grant and Street Improvement Fund
Recommended Action :	Motion to award the Post Office Crosswalk Safety Project & Ash Street Realignment Project to Moreno & Castillo Construction, LLC for \$224,624.40 and authorize Public Works Director or designee to sign contract documents and approve additional work up to a total of \$247,086.84 which includes a 10% contingency of \$22,462.44 based on the total construction costs.

Public Content

Historical Perspective:

JUB Engineers has been working with the City to design improvements to the mid-block post office crosswalk on College Ave adjacent to the Post Office. The midblock crossing needs safety improvements to ensure that pedestrians and motorists are both safe through the corridor.

JUB Engineers has also been working with the City to design a realignment to SE Ash St from Whitman to SE 4th St. This stretch of road divides Walla Walla University and Davis Elementary and has some safety concerns for motorists, pedestrians, and bicyclists.

Information for Consideration:

Design has been completed for both projects and the City and JUB elected to tie them together in an effort to save on both projects. The City opened bids on June 4th and Moreno & Castillo Construction, LLC was the only responsive bidder. The bid was \$224,624.40. Engineer's estimate was \$208,000. A 10% contingency on this project would be \$22,462.44.

File Attachments

- [BidTabAbstract.pdf \(85 KB\)](#)
- [L-RecommendationOfAward.pdf \(751 KB\)](#)
- [NoticeOfIntentToAward - sigend.pdf \(113 KB\)](#)
- [Ash Street Layout.pdf \(2,059 KB\)](#)

Subject :	5.03 AB 24149 - Regulating Use of Public Right of Ways - Anti-Camping Ordinance - Ms. Culwell
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	5. Action Items.
Access :	Public
Type :	Action
Recommended Action :	Motion to approve Ordinance No 24-007 amending College Place Municipal Code Title 9, enacting Chapter 9.30 to regulate camping and storage of personal property on City property and right of ways.

Public Content

Information for Consideration:

Local governments, the City of Walla Walla included, regulate behavior commonly associated with homelessness in the interest of public safety. Such regulations are commonly referred to as "anti-camping" laws and generally apply to behavior in and on public property and public right of ways such as streets, sidewalks, and parks. College Place does not have an anti-camping law, rather the City regulates unwanted use of City property by way of prohibiting use of City parks after hours and by trespassing individuals from City property (and citing with the crime of trespass if the individual refuses to leave or returns prior to the expiration of the trespass notice). The City regulates activities on right of ways through its nuisance regulations (prohibits property storage, blocking, causing/likely to cause damage, etc).

Staff, including City Police Department, believe having local regulation of camping and storing of personal property on City property and City right of ways would provide a valuable tool in community safety.

Staff recommends passing the motion.

File Attachments

- [Ord_No_24-007_Amend_Chapter_9.04_Regulate_Camping_&_Storage_of_Personal_Property_2024-6-11.pdf \(322 KB\)](#)
- [Exhibit A - Camping and Storage of Personal Property Prohibition - Chapter 9.30_.pdf \(98 KB\)](#)

6. Administrative Reports. - None

7. Informational Reports.

Subject :	7.01 June 2024 Development Activity
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	7. Informational Reports.
Access :	Public
Type :	Information

File Attachments

[DevelopmentTrackSheet_June2024.pdf \(141 KB\)](#)

8. Executive Session. - None

9. Closing Items.

Subject :	9.01 Good of the Order?
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	9. Closing Items.
Access :	Public
Type :	Discussion, Information
Subject :	9.02 Conclusion - Motion to Conclude the Meeting.
Meeting :	Jun 11, 2024 - City Council Meeting - Hybrid (In-Person & Electronic)
Category :	9. Closing Items.
Access :	Public
Type :	Action
Recommended Action :	Motion to conclude the meeting

City Council Meeting - Hybrid (In-Person & Electronic) (Tuesday, May 28, 2024)

Generated by Sherri St Clair on Tuesday, May 28, 2024

1. Opening Items.

Procedural: 1.01 Call To Order

Mayor Hernández called the meeting to order at 7:01 PM

Procedural: 1.02 Roll Call

PRESENT:

Mayor - Norma L. Hernández

Council Members – Paul Jessup; Loren Peterson; Melodie Williams; Monica Boyle

Staff- City Administrator, Michael Rizzitiello; Finance Director, Brian Carleton; City Clerk, Sherri St. Clair

Also Present -

MEMBERS EXCUSED: Michael Cleveland; Tito Espinoza; Heather Schermann

MEMBERS ABSENT:

Procedural: 1.03 Pledge of Allegiance

Information: 1.04 Public Comment - None

2. Consent Agenda.

Action (Consent): 2.01 AB 24119 - Approve Agenda for May 28, 2024

Action (Consent), Minutes: 2.02 AB 24120 - Approve Council Minutes from May 14, 2024

Action (Consent): 2.03 AB 24121 - Surplus of City Vehicles and Equipment

Action (Consent): 2.04 AB 24122 - February Financials

Action (Consent): 2.05 Excusing the Absence of Council Members Cleveland, Espinoza, and Schermann

Action (Consent): 2.06 Approve Consent Agenda - Our adopted rules of Parliamentary Procedure, The Standard Code of Parliamentary Procedure, provide for a consent agenda listing several items for approval of the Council by a single motion. Most of the items listed under the consent agenda have gone through previous review either during the budget process, at a workshop, or by subcommittee review and recommendation. Documentation concerning these items has been provided to all Council Members and the public in advance to assure an extensive and thorough review. Items may be removed from the consent agenda at the request of any Council Member.

Council Member Boyle made a motion to approve the consent agenda. Second by Member Williams and the motion passed 4-0.

3. Presentations.

Information: 3.01 AB 24123 - Ride Transit Month Proclamation -

Mayor Hernandez read the Ride Transit Month Proclamation.

4. Public Hearings.

Procedural: 4.01 Procedure for Public TestimonyProcedural: 4.02 AB 24124 - Contract Closeout Hearing for the CDBG Sidewalk Project on SW 6th St and SW 8th St -

Mr. Rizzitiello informed the Council that as a requirement for Community Development Block Grant (CDBG), the Washington State Department of Commerce requires a closeout hearing. The projects funded by the CDBG include six foot sidewalk on SW 6th Street between College Avenue and Davis Street as well as SW 8th Street between College Avenue and Bade Street.

Mayor Hernández opened the public hearing at 7:07 PM

Testimony: None

Council Member Boyle made a motion to close the public hearing at 7:08 PM. Second by Council Member Jessup and the motion passed 4-0.

Procedural: 4.03 AB 24125 - Community Development Block Grant 2024 Application - Safewalk College Place -

Mr. Rizzitiello informed the Council that the City is eligible to apply for another Community Development Block Grant (CDBG) for two census block groups that qualify for funding. Mr. Rizzitiello explained that the City would like to apply for the grant to add over 1700 linear feet of sidewalk on NW B Street and SW 2nd Avenue.

Mayor Hernández opened the public hearing at 7:10 PM

Testimony: None

Council Member Peterson made a motion to close the public hearing at 7:11 PM. Second by Council Member Boyle and the motion passed 4-0.

5. Action Items.Action: 5.01 AB 24126 - Community Development Block Grant (CDBG) 2024 Application - Safewalk College Place -

Mr. Rizzitiello informed the Council that this item was previously presented in item 4.03. The City is requesting a resolution of support to apply for the 2024 Community Development Block Grant to fund sidewalks on NW B Street and SW 2nd Street.

Discussion ensued.

Council Member Peterson made a motion to approve Resolution No. 24-038 which authorizes City Administrator to submit 2024 CDBG Resolution to the State for over 1,700 feet of new concrete sidewalk on SW 2nd Street and NW B Street. Second by Member Boyle and the motion passed 4-0.

Action: 5.02 AB 24127 - New Strategic Plan (FY 2025 to 2033) -

Mr. Rizzitiello informed the Council that the City is nearing the end of the current Strategic Plan and noted that four new elected officials have entered office since the current strategic plan was created. Mr. Rizzitiello reached out to several consultants and recommends the City contract with Mr. Ratkai from Sageland Strategic.

Council Member Jessup made a motion to approve Resolution No. 24-039 which authorized the City Administrator to sign the strategic plan consulting contract to Sageland Strategies LLC for an amount not to exceed \$28,950.00. Second by Member Peterson and the motion passed 4-0.

Discussion ensued, amendment recommended.

Council Member Jessup made a motion to approve Resolution No. 24-039 which authorized the City Administrator to sign the strategic plan consulting contract to Sageland Strategic LLC. for an amount not to exceed \$29,950.00 as an amendment to the previous statement. Second by Member Peterson and the motion passed 4-0.

Action: 5.03 AB 24128 - Creating CPMC 3.48 - Industrial Property Tax Exemption -

Mr. Rizzitiello informed the Council that the State of Washington has reformed its Industrial Property Tax Exemption to allow for areas with a metropolitan planning organization to be eligible. The eligibility requirements include light industrial developments that are at least 10,000 square feet with an improvement value of at least \$800,000.00 that create a minimum of 25 family living wage jobs. Eligible developments could receive a tax exemption for up to 10 years. In addition, Mr. Rizzitiello informed the Council the City has eligible land on Whitman Drive and Evans Street as well as Martin Airfield between the runway and Whitman Drive. The Industrial Property Tax Exemption was recommended to City Council on May 6, 2024 by the Economic Development, Tourism, and Events Commission.

Council Member Boyle made a motion to adopt Ordinance No. 24-005 to creates Chapter 3.48 Industrial/Manufacturing Property Tax Exemption to the College Place Municipal Code. Second by Member Williams and the motion passed 4-0.

Action: 5.04 AB 24129 - Acceptance of State Energy Efficiency and Conservation Block Grant of \$38,454 to cover Energy Blueprint Services (ESCO) for Certain City Facilities -

Mr. Rizzitiello informed the Council that Energy Efficiency and Conservation Block Grant was created as part of the bipartisan infrastructure package and the Inflation Reduction Act to pay for energy efficiency activities and that the City was awarded the grant. In 2018, the City has sent out an RSQ for Energy Blueprint Services (ESCO) which was awarded to McKinstry. Mr. Rizzitiello explained that due to inflation, new pricing is needed for anticipated upcoming projects.

Discussion ensued.

Council Member Peterson made a motion to adopt Resolution No. 24-040 which authorizes the Mayor to sign Energy Efficiency and Conservation Block Grant of \$38,454 to cover energy blueprint (ESCO) services for Fire Station, Municipal Campus Parking Lot Lights, PW Yard exterior lights, and Kiwanis Park Pickleball/Basketball Court Lights. Second by Member Jessup and the motion passed 4-0.

Action: 5.05 AB 21130 - Acceptance of Ecology Water Quality Combined Account: Lions Park Outfall Stormwater Improvements -

Mr. Rizzitiello informed the Council that the City recently received grant agreements for agenda items 5.05, 5.06, and 5.07 that were backlogged from over two years ago, due to a lack of staffing at the Washington State Department of Ecology. Mr. Rizzitiello explained that this grant agreement will cover costs associated with the additional Lions Park Stormwater Outfall located at the west side of the park at Larch Avenue.

Discussion ensued.

Council Member Williams made a motion to adopt Resolution No. 24-041 which authorizes the City Administrator to sign grant agreement for Lions Park Outfall Improvements. Second by Member Boyle and the motion passed 4-0.

Action: 5.06 AB 24131 - Acceptance of Ecology Water Quality Combined Account: Public Works Yard Stormwater Improvements -

Mr. Rizzitiello informed the Council that the grant would cover design costs of treatment for the SW 10th Street from College Avenue to Bade Street including Puff Lane.

Clerk note: Mr. Rizzitiello's description of this item relates to Action Item 5.07, not 5.06.

Council Member Peterson made a motion to adopt Resolution No. 24-042 which authorizes Administrator to sign grant agreement for Public Works Yard Stormwater Improvements. Second by Member Boyle and the motion passed 4-0.

Action: 5.07 AB 24132 - Acceptance of Ecology Water Quality Combined Account: SW 10th Engineering -

This item was previously discussed in Action Item 5.06. Mr. Rizzitiello informed the Council that the grant would cover design costs to fix a sheet draining issue.

Council Member Jessup made a motion to adopt Resolution No. 24-043 which authorizes Administrator to sign grant agreement for SW 10th Street (College to Bade) Engineering. Second by Member Peterson and the motion passed 4-0.

Action: 5.08 AB 24133 - Award Energy Blueprint (ESCO) EECBG Implementation Work to McKinstry -
Mr. Rizzitiello informed the Council that this Action Item is a follow-up from Item 5.04 in which the grant acceptance was approved. Mr. Rizzitiello informed the Council that this would allow the City to award the Energy Blueprint implementation work to McKinstry.

Discussion ensued.

Council Member Boyle made a motion to adopt Resolution No. 24-044 which authorizes City Administrator to contract with McKinstry for \$38,454 to conduct Energy Blueprint (ESCO) Investment Grade Audit work for City Facilities. Second by Member Peterson and the motion passed 4-0.

Action: 5.09 AB 24134 - Award Safe Streets For All Planning Work to JUB Engineering -
Mr. Rizzitiello informed the Council that the City used the MRSC Small Works Roster Vendor Directory to find a vendor to complete a Safe Streets 4 All Action Plan. Mr. Rizzitiello explained that the plan is necessary for the City to qualify for Federal Department of Transportation Safe Streets for All Implementation Grant Funding. Furthermore, Mr. Rizzitiello explained that grant funding through the Federal Safe Street For All program is not dependent on Federally classified roads.

Council Member Williams made a motion to adopt Resolution No. 24-045 which authorizes City Administrator to sign contract with JUB Engineers for \$128,100 to conduct Safe Streets 4 All Action Plan. Second by Member Jessup and the motion passed 4-0.

Action: 5.10 AB 24135 - Award SE 8th Street Sidewalk Engineering Projects (College to Birch) & (Birch to Larch) to J-U-B Engineers as Task Order Under Agreement -

Mr. Rizzitiello informed the Council that the Washington State Transportation Improvement Board contacted the City and explained that the City needs to issue the sidewalk engineering projects right away. Therefore, rather than issuing a new RSQ, the City is adding this work as task orders to the J-U-B Engineers On-Call Engineering Agreement. Mr. Rizzitiello explained that the Metropolitan Planning Organization Surface Transportation Block Grant will help finance sidewalk engineering on SE 8th Street from College Avenue to Birch Street. In addition, the Washington State Transportation Improvement Board Active Transportation Grant will help finance engineering for sidewalk on SE 8th Street from Birch Street to Larch Avenue.

Discussion ensued.

Council Member Peterson made a motion to adopt Resolution No. 24-046 which authorizes City Administrator to sign task orders under on-call city engineering agreement for engineering of sidewalk on SE 8th Street (College to Birch - MPO

Portion) and SE 8th Street (Birch to Larch - TIB Portion) for \$120,200 with 10% contingency of \$12,020 totaling \$132,220. Second by Member Williams and the motion passed 4-0.

Action: 5.11 AB 24136 - Sewer Collection System Rehab Project -

Mr. Rizzitiello informed the Council that the Sewer Collection System Rehab Project is part of a funding package from the Washington State Department of Ecology (DOE). Mr. Rizzitiello explained that the DOE has provided a decade of funding to the City for one construction season to complete Cured In Place Piping.

Discussion ensued.

Council Member Williams made a motion to award the Sewer Collection System Rehabilitation Project (CIPP) to Insituform, in the amount of \$1,505,646.21, and authorize Public Works Director to sign project contract documents and approve additional work up to a total of \$1,656,210.83 which includes a 10% contingency of \$150,564.62 based on the total construction costs. Second by Member Boyle and the motion passed 4-0.

Action: 5.12 AB 24137 - Update to the City's Fuel System -

Mr. Rizzitiello informed the Council that the City's fuel system has a proxy card reader that is unreliable and needs to be updated.

Council Member Boyle made a motion to Authorize City Administrator to approve purchase and sign contract agreements for the installation of new fuel system equipment, software, and software management in an amount not to exceed \$25,519.36. Second by Member Peterson and the motion passed 4-0.

Action: 5.13 AB 24138 - Wastewater Treatment Phase 1 -

Mr. Rizzitiello informed the Council that there is mechanical equipment that will need to be updated as part of the Wastewater Treatment Plant upgrades. Mr. Rizzitiello informed the Council that Goodman & Mehlenbacher Inc. was the low bidder for this project.

Discussion ensued.

Council Member Jessup made a motion to award the Wastewater Treatment Plant Phase 1 Upgrades to Game Inc, in the amount of \$5,173,440.00 and authorize the Public Works Director to sign the Project Contract Documents and approve additional work up to a total of \$5,328,643.20 which includes a 3% Contingency of \$155,203.20 based on the total construction costs. Second by Member Boyle and the motion passed 4-0.

6. Administrative Reports.

Discussion, Information: 6.01 AB 24139 - Park Standards and Specifications to be added to City Standards -

Mr. Rizzitiello requested that the City Council review the Park Standards and Specifications and informed the Council that the Parks, Arbor, and Recreation Board recommended this item to Council at the last board meeting. Mr. Rizzitiello outlined the proposed Park Standards.

7. Informational Reports.

Information: 7.01 College Place Police Department Update

Information: 7.02 Development Tracker usually Presented to Economic Development Commission

8. Executive Session - None**9. Closing Items.****Discussion, Information: 9.01 Good of the Order?**

Council Member Peterson made a comment commending the Mayor and City Administrator for their contributions to the quality of the City's emergency services.

Mayor Hernández made a comment commending the College Place Fire Department's American Flag that was hung from a ladder truck on Whitman Drive over Memorial Day Weekend.

Action: 9.02 Conclusion - Motion to Conclude the Meeting.

Council Member Williams made a motion to conclude the meeting at 7:58 PM. Second by Member Peterson and with no objection, the meeting concluded.

Approved:

Norma L. Hernández – Mayor

Attest:

Sherri St. Clair - City Clerk

The foregoing minutes are the official record of the City Council meeting that occurred May 28, 2024. Further detail may be obtained by reviewing the actual audio recording made during this session.

City Council Workshop - Hybrid (In-Person & Electronic) (Tuesday, June 4, 2024)

Generated by Sherri St Clair on Tuesday, June 4, 2024

1. Opening Items.

Procedural: 1.01 Call To Order

Mayor Hernández called the workshop to order at 5:30 PM.

Procedural: 1.02 Roll Call

PRESENT:

Mayor - Norma L. Hernández

Council Members – Paul Jessup; Michael Cleveland; Tito Espinoza Jr.; Loren Peterson; Heather Schermann; Monica Boyle

Staff- City Administrator, Michael Rizzitiello; City Clerk, Sherri St. Clair.

Also Present - Brian Hansen of Anderson Perry & Associates Inc.
Chloe Svilich of College Place High School

MEMBERS EXCUSED: Melodie Williams

MEMBERS ABSENT:

Procedural: 1.03 Pledge of Allegiance

Information: 1.04 Public Comment - None

2. Workshop Topics.

Discussion, Information: 2.01 Anderson Perry Student Scholarship -

Mayor Hernandez introduced Brian Hansen of Anderson Perry and Associates Inc. Mr. Hansen provided information to Council about the Anderson Perry Student Scholarship and announced Ms. Svilich as the recipient, her scholastic achievement, and plans for the future. Mayor Hernández presented Ms. Svilich with her scholarship certificate.

Discussion, Information: 2.02 State of the City -

Mayor Hernandez presented the State of the City.

Discussion ensued.

Discussion, Information: 2.03 Coalla Creative District Certification -

Mr. Rizzitiello informed the Council that the Cities of Walla Walla and College Place are the first joint municipal creative district in Washington. Partners of the project are creating a committee to complete the Creative District Launch Checklist. Mr. Rizzitiello informed the Council that the Cities will receive grant funds from ArtWa for district projects.

Discussion ensued.

Discussion, Information: 2.04 Whitman Drive Egress Concept for ELDA WA CP LLC Development -
Mr. Rizzitiello informed the Council that there is an interest in developing the property on Whitman Drive behind Home Depot. This development would include a hotel/convention center and supporting businesses; this development would require the ability to freight to access the site. Initially, the developer wanted a right-in right-out off of Myra Road. However, the City of Walla Walla owns Myra Road and was not willing to allow a right-in right-out. Therefore, the City is considering a roundabout on Whitman Drive. Mr. Rizzitiello presented the Whitman Drive and Home Depot roundabout concept and financing options. Mr. Rizzitiello also informed the Council that the Economic Development, Tourism, and Events Commission as well as the Utilities and Transportation Advisory Commission have recommended the roundabout concept to the City Council.

Discussion ensued.

Discussion, Information: 2.05 Early Design Concept SR 125 & College Ave/Aufte -
Mr. Rizzitiello informed the Council that Washington State has a Freight Mobility Board that accepts projects every 12 years. There are plans to develop land to the west of South College Avenue next to SR-125. Mr. Rizzitiello presented the SR-125 and College Avenue/Aufte Lane early concept of adding a double roundabout to allow access for the development. In addition, Mr. Rizzitiello informed the Council that the concept was recommended to Council by Economic Development, Tourism, and Events Commission as well as the Utilities and Transportation Advisory Commission.

Discussion ensued.

3. Closing Items.

Discussion, Information: 3.01 Good of the Order - None

Procedural: 3.02 Conclusion

Mayor Hernández concluded the workshop to order at 6:31 PM.

Approved:

Norma L. Hernández – Mayor

Attest:

Sherri St. Clair – City Clerk

The foregoing minutes are the official record of the City Council Workshop that occurred June 4, 2024. Further detail may be obtained by reviewing the actual audio recording made during this session.



City of College Place

Standard Specifications & Drawings

Update Approved by City Council:

Contact Information

City Contacts:

City Engineer	(509) 394-8525
Public Works Director	(509) 394-8526

Utility Contacts:

Call before you Dig (One Call)	(800) 424-5555 or 811
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FORWARD

This document provides engineering specifications and standards for the City of College Place's Public Works Division, developers, contractors and homeowners engaged in construction or repairs within the City of College Place. The City requires all persons engaged in construction or repair efforts to abide by these specifications.

These specifications and standards are supplemented by additional standards adopted by the City of College Place City Council including Street Cut Restoration Standards.

In general, site development projects and plats submitted for approval by the City of College Place go through a two-step process. Project review begins with the submission of a preliminary plat or site plan to the Planning Department that provides enough information to allow the City to determine conditions of development. This review runs concurrently with any required State Environmental Policy Act (SEPA) processes. Supporting studies such as a stormwater design and a traffic impact analysis are also generally required at this stage. Once the preliminary plat or site plan is approved, construction plans are prepared.

Both site plans and construction plans need to be consistent with all City specifications and standards unless otherwise approved by the City Engineer.

There are a number of reminders to keep in mind:

- 1. Standard Specifications.** These specifications are College Places' uniform minimum standards. If there is a different type of material or method desired which will result in a similar outcome, the Public Works Director may grant a variance. Any request for variance shall be in writing and submitted to the Public Works Director for consideration.
- 2. Variances from Plans.** No variance from approved plans shall be allowed without the prior petitioning by the person(s) requesting the variance and the written approval of the Public Works Director. Variances may require City Council approval.
- 3. Inspections.** To ensure standard practices, inspection of work conducted within a public street or utility right of way shall be required in addition to all necessary permits. Failure to obtain a proper permit or arrange for timely inspections may result in rejection and removal of all or part of the work.

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City of College Place

Standard Specifications

000 GENERAL DEVELOPMENT SPECIFICATIONS

The following general requirements apply to developments in general:

*****REFER TO STANDARD PLAN No. 010.00*****

000.10 EXTENSION OF UTILITIES AND IMPROVEMENTS

Water, sewer and storm water facilities shall be extended to the furthest lot line on all streets within new subdivisions.

000.20 HALF STREET AND EXTENSION IMPROVEMENTS

Half street improvements (including sidewalks, planting strips, storm facilities, etc.) along with any additional street improvements (either side or supporting extensions leading to the improvements) deemed necessary to safely and effectively serve the subdivision or existing uses are required for those portions of a sub-division located exclusively on one side of a street. Full street improvements shall be required for all other streets.

000.30 PRIVATE FACILITY ADA CERTIFICATION

With the exception of stand-alone single family homes and duplexes, a professional engineer licensed to practice in the State of Washington shall certify (stamped) that sidewalks, parking lots and access facilities are compliant with the American Disabilities Act (ADA).

100 STREET SPECIFICATIONS

100.01 GENERAL STREET SPECIFICATIONS

This document is intended to provide use and construction standards for City streets based on classification. The purpose is to provide a description of the types of traffic and transit use on each type of street and guide how future street improvement projects and land use development relate to each classification. The goal is to provide efficient movement of people and goods while preserving and protecting the quality of life for all residents in the City of College Place.

Classifications are historically developed through Federal and State transportation agencies, which have financed, developed and guided transportation in the State of Washington. These agencies do not dictate precise standards but have general guidelines by which they operate and disburse transportation funds. There is substantial latitude for the individual Cities and agencies to fine tune standards to fit their individual needs. This document establishes these standards for the City of College Place.

The classifications include statements outlining the functional purpose, design and operational aspects along with the types of land use and development to be encouraged along the various street types.

Additionally, a number of related street section elements shall be included in each street section per College Place Municipal Code (CPMC) Section 14.90.040 to include:

- Sidewalks in every residential, industrial or commercial subdivision, and business park;
- A minimum five-foot wide landscape strip(s) on every side of a lot that abuts an arterial, collector, or local street in a residential subdivision; and
- Bike lanes in residential subdivisions on all collectors and arterial streets.

******REFER TO STANDARD PLAN No. 110.00******

100.02 CLASSIFICATION, DESCRIPTION AND DETAILS

REGIONAL CORRIDOR

Functional Purpose

A Regional Corridor is intended to provide for inter-regional and inter-community transportation. Examples are SR-125 and SR-12. A Regional Corridor should provide the highest possible capacity and express movement of longer distance trips.

Land Use and Development

Private and public developments of a regional significance should include shopping centers and major centers of employment. Developments of this significance should be encouraged to locate adjacent to Regional Corridors to reduce traffic on adjoining areas and streets. Automobile oriented commercial activities, which attract trips from throughout the cities, and areas should be encouraged to locate along a Regional Corridor.

Design Considerations and Traffic Operations

Design and traffic operations should serve through movement. A grade separation should be used whenever possible at the intersection between a Regional Corridor and another Regional Corridor or a Principal or Minor Arterial to facilitate through traffic on the Regional Corridor. Intersections between a Regional Corridor and a Principal or Minor Arterial should provide control of all turning movements. Signalization of the intersection should be a priority with respect to traffic warrants. Access to adjoining land uses should be limited to minimize disruption of traffic movement on the Regional Corridor. Adjacent land use should provide off-street parking with no curbside parking. Wherever possible, a buss pullout bay, or a bus lane should be provided along a Regional corridor to minimize disruption of traffic flow. The Regional Corridor should support inter-regional bus routes and high-quality local service.

Right-of-way, Template and Structure

Minimum right-of-way should be 100-ft. Lane width should be 12-ft. minimum with 5 lanes minimum. Four travel lanes and a center turn lane. Minimum pavement thickness shall be 4-in. with a base of 16-in. of crushed aggregate or the equivalent thereof. Sidewalks and curb and gutter are typically not indicated. These roads are typically state highways in our region under the jurisdiction of the State Department of Transportation, Region V.

PRINCIPAL ARTERIAL

Functional Purpose

A Principal Arterial is intended to serve as the major route for the movement of traffic within the City and for the Connection with neighboring cities. Examples are College Avenue and West Rose Street. A Principal Arterial should serve the major activity center of the City. Through traffic with no trip ends within the City should be encouraged to use Principal Arterials.

Land Use and Development

Major office or commercial developments, which attract trips from various neighborhoods throughout the City, should be encouraged to locate along Principal Arterials. Auto-oriented commercial should be encouraged to locate along Principal Arterials. High-density residential developments should be encouraged to locate along Principal Arterials to maximize usage of transit systems.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to traffic having at least one trip end within the City, rather than to through traffic. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Principal Arterials should provide all desired turning movement signals including an exclusive left-turn signal if warrants are met. A Principal Arterial should serve as an inter-city transit route and a major local transit route within the City. Wherever possible, a bus pullout bay, or a bus lane should be provided to minimize disruption of traffic flow. Transit oriented land use development located along a Principal Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. High priority should be given to underground placement of utility lines along all Principal Arterials. On-street parking is restricted and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Right-of-way should be 111-ft. Lane width should be 12-ft minimum with 5 vehicle travel lanes. Four travel lanes and a center turn lane. The center turn lane may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in. of crushed aggregate or the equivalent thereof.

*****REFER TO STANDARD PLAN No. 110.00, 110.01*****

MINOR ARTERIAL

Functional Purpose

A Minor Arterial is intended to provide concentrated access to neighborhood activity centers and to serve trips between neighborhoods. Examples are Larch Avenue and East 12th Street. A Minor Arterial should serve as a distributor of traffic from a Principal Arterial to Collector and Local streets. Through trips should not be encouraged on a Minor Arterial.

Land Use and Development

Neighborhood oriented commercial developments are encouraged to locate along a Minor Arterial as allowed by the Zoning Code. The density of the residential developments along a Minor Arterial should be encouraged to vary directly with the capacity of transit service available and as governed by Zoning Code.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to local traffic rather than to through traffic. A Minor Arterial should not be designated as a truck route. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Minor Arterials should be signaled as warranted to facilitate the safe movement of traffic along each street as well as turning movements between such streets. Special care should be taken in the design of a Minor Arterial and intersections to provide safe and frequent pedestrian crossing opportunities. Transit oriented land use development located along a Minor Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. A Minor Arterial should serve as a local transit route. On-street parking is restricted and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Minimum right-of-way should be 78 or 87-ft depending on whether 3 or 4 lanes as needed. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Capacity requirements will dictate whether all four lanes are needed. Lane widths should be a minimum of 11-ft. The center turn lane may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness of 4-in and a minimum base of 10-in of crushed aggregate or the equivalent thereof.

******REFER TO STANDARD PLAN No. 110.00, 110.02 & 110.03******

COLLECTOR

Functional Purpose

A Collector Street is to serve trips for the neighborhood. Through trips with no trip ends within the neighborhood should be discouraged on a Collector street. Examples are 4th Street and Date Avenue. A Collector Street is intended to serve as a distributor of traffic from Principal and Minor Arterials to Local Streets.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Collector Street. Neighborhoods serving commercial nodes are permitted along a Collector Street as governed by Zoning Codes.

Design Considerations and Traffic Operations

A Collector Street should not be designated as a truck route. A Collector Street should provide a connection to a Principal Arterial or to a Minor Arterial. Through traffic should be discouraged on a Collector Street. Traffic movement and access to abutting properties are equally important functions of a Collector Street. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances. Special care should be taken in the design of a Collector Street and intersections to provide safe and frequent pedestrian crossing opportunities. An environment conducive to pedestrian activities should be encouraged along a Collector Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 94-ft. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 12-ft travel lanes are required with an 11-ft turn lane and/or median, a 6-ft bike lane and 2-ft buffer followed by an 8-ft parallel parking along each side. The center turn lane/median may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

*****REFER TO STANDARD PLAN No. 110.00, 110.04*****

LOCAL

Functional Purpose

A Local Street is intended to serve only for neighborhood access to Collector Streets and Arterials. Through traffic should be discouraged. Local Streets initiate and terminate trips. Examples are local subdivision and neighborhood streets. Traffic movement and access to abutting properties are equally important functions of Local Streets. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Local Street. Special care should be taken in the design of a Local Street and intersections to provide safe and frequent pedestrian crossing opportunities. Only residential development should be encouraged on Local Streets.

Design considerations and Traffic Operations

A Local Street should not be designated as a truck route. An environment conducive to pedestrian activities should be encouraged along a Local Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 63-ft. Right-of-way may be reduced upon Public Works Director concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 10-ft travel lanes are required with 8-ft parallel parking along each side. Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

Elimination of parking on one or either side of the street shall only be considered under extenuating circumstances and requires the City to initiate the proposal based on their assessment of required infrastructure and current or anticipated public parking demand..

******REFER TO STANDARD PLAN No. 110.00, 110.05, 110.06 & 110.07******

100.03 STANDARD PUBLIC STREET SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal construction”, published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document. This is the process of tailoring the specification to the needs of the City.

100.04 PAVEMENTS

Pavement for City streets shall be HMA Class ½” PG64-28 in accordance with the most current edition of the WSDOT Standard Specifications. No light bituminous pavement methods shall be

allowed. Light bituminous surface treatments are allowed only for maintenance. Depth of pavement shall be as specified for each classification of street.

100.05 BASE ROCK AND ASPHALT TREATED BASE

Depth of base rock shall be as specified for each classification of street. Layering of rock gradations shall be as directed and approved by the Public Works Director. Asphalt treated base may be used as a structural equivalent. No alternative shall be used unless it has been approved by the Public Works Director. Use of construction fabrics shall be considered on a case by case basis. Some reduction in base materials may be allowed. Construction fabric may be required in situations involving unstable or highly erodible soils.

100.06 SUBGRADE

Subgrade shall be fully compacted native or imported materials. Imported materials must be approved by the Public Works Director prior to the placement thereof. Such materials shall be handled and placed in accordance with the Standard Specifications. Any situations involving unstable subgrade materials shall be corrected prior to placement of base material.

100.07 CURB AND GUTTER

Curb and gutter construction and retrofit work shall strictly be according to the City Standard Specifications and Plans. No rolled curb and gutter shall be allowed on any public street. Curb with no gutter is not permitted. Materials and placement shall be per the Standard Specification. Curb and gutter shall be placed on fully compacted subgrade with 4-in. minimum of compacted crushed rock between the subgrade and the bottom of the curb and gutter. The base rock shall extend a minimum of 12-in. behind the curb and gutter to assure a firm base. Driveway cuts and curb height transitions and wheelchair ramps shall be as per City Standard drawings. Curb radius shall be a minimum of 12-ft. When narrow streets are constructed, 15-ft. radius shall be used. Radii on arterial streets must be chosen to accommodate truck turning radius. Radii greater than 15-ft. may be required.

******REFER TO STANDARD PLAN No. 110.17, 110.18, 110.19 & 110.20******

100.08 SIDEWALKS

Sidewalks shall be a minimum of 6-ft in width in residential areas. Wider walks may be required in school and commercial areas. Materials and placement shall be per the Standard Specifications. All sidewalks shall be placed on fully compacted subgrades and on a minimum of 4-in. of compacted crushed surfacing top course. Use of asphalt concrete pavement may be allowed only by special approval of the Public Works Director. Any signs, utility poles, access lids or similar items placed in the sidewalk areas shall be isolated by separately poured concrete knock out

sections, properly fitted with expansion joint material. No single panel between approach or ramp wings shall be less than 4-ft. in width between wings.

*****REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15, 110.16, 110.17 and 110.18*****

100.09 DRIVEWAYS

Driveways shall be built to the same specifications as sidewalks but deepened to 6-in. of cement concrete. Driveway cuts, curb height transitions and wheelchair ramps shall be as per City Standard drawings.

1. Driveways shall be located at least 2-ft. from lot lines of adjacent lots except that Public Works Director may waive separation within ROW.
2. In residential subdivisions, the width of driveways at the curb on lots with at least 60 feet of street frontage shall not exceed 20 feet in width at the curb and back of the right-of-way provided that:
 - a. On lots with street frontage greater than 60 feet, the width of the driveway may be increased by 1 foot over the standard 20 foot width for every 3 feet of frontage over 60 feet, up to a maximum of width at the curb and back of the right of way of 30 feet.
 - b. On lots with less than 60 feet of street frontage, the driveway width at the curb may not exceed 12 feet;
 - c. The width of a driveway at its widest point shall not exceed the width of the driveway at the curb plus 4 feet; and
 - d. Driveway approach wings and pedestrian approach wings shall be separated by a minimum of 4 feet between the end of the wings.
3. In residential short plats, the width of driveways shall not exceed 20 feet at the curb and back of the right of way or 24 feet at its widest point.
4. A shared private driveway shall serve no more than two lots. Legally binding easements shall be prepared and obtained by the landowners and shall be of sufficient width to adequately serve private and public utilities, stormwater, and fire department access.

*****REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15 & 110.16*****

100.10 STREET LIGHTING

For off-set concrete sidewalks, street lights shall be located a min. of 3-ft behind the back of concrete curb. For curb tight concrete sidewalks, street lights shall be located a min. of 2-ft behind the back of concrete sidewalk. Street lights shall not be set in the concrete sidewalk area. Street lighting spacing shall be 300-ft for local/residential streets and 150-ft for collector/arterials. Spacing shall be staggered opposite sides of the streets, except on curves where spacing shall be determined by the Public Works Director. All intersections shall have a minimum of (1) light. Additional lighting may be required by the Public Works Director along any given roadway.

Ornamental pedestrian lighting shall be placed as directed by the Public Works Director.

******REFER TO STANDARD PLAN No. 110.73, 110.74, 110.75, 110.76******

100.11 RECTANGULAR RAPID FLASHING BEACONS (RRFB)

RRFB's shall be used at areas with high volumes of pedestrian crossings with speed limits less than 40 miles per hour. Generally, RRFBs are used at specific school crossings, trail crossings and mid-bloc crossings. Actual determination of RRFBs and their locations shall be determined by the Public Works Director. RRFBs shall be placed on both sides of a crosswalk below the pedestrian crossing sign and above the diagonal downward arrow plaque pointing at the crossing. The flashing pattern shall be activated with pushbuttons or passive (e.g., video or infrared) pedestrian detection and should be unlit when not activated.

The use of hard-wired RRFBs should be utilized versus solar powered RRFBs. Solar powered RRFBs may be allowed under special circumstances as approved by the Public Works Director. The City reserves the right to use RRFBs for locations with significant pedestrian safety issues.

RRFBs shall not be used without the presence of a pedestrian, school or trail crossing warning sign. RRFBs shall not be used for crosswalks across approaches controlled by Yield signs, Stop signs, traffic control signals or pedestrian hybrid beacons, except for the approach or egress from a roundabout.

******REFER TO STANDARD PLAN No. 110.80******

100.12 PAVEMENT MARKINGS

General

Pavement markings shall be provided as required and needed in accordance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and as directed by the Public Works Director.

All pavement markings shall be painted using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director.

Traffic Arrows

Traffic arrows shall be painted white using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director. Traffic arrow size shall conform with the City of College Place existing arrow painting template. Arrow size shall be 6-ft long x 3-ft wide. Contractor shall coordinate with the City of College Place for traffic arrow template sizing.

Bicycle Lanes

When directed by the City, bicycle lanes shall be green MMA colored. Refer to Section 1520.05 Additional Bicycle Design Requirements and Considerations of the WSDOT Design Manual for additional information. Bicycle lanes shall be striped in accordance with the latest edition of the MUTCD.

100.13 CONDUITS

General

Arterial and Collectors streets shall include underground electrical grade conduits at the 4-legs of an intersection. Residential and local streets will generally not require underground electrical grade conduits at the 4-legs of an intersection unless it has been determined by the Public Works Director. Missile boring and/or micro-borings are not allowed.

*****REFER TO STANDARD PLAN No. 110.78, 110.79*****

200 WATER SYSTEM SPECIFICATIONS

200.01 WATER MAINS

All water mains shall, at a minimum, meet the criteria of AWWA Standard C151. 12-in and smaller lines shall be Class 50 ductile iron with Class C104 cement mortar lining with all joints mechanically restrained. Pipe joints shall be restrained using TR-flex or Flex Ring ductile iron pipe or by using Field Lok or Fast-Grip gaskets. The gaskets used shall be manufactured by the manufacturer of the pipe being used and shall be recommended by the manufacturer for the application. Water lines larger than 12-in shall be ductile iron pipe Class 52.

The Public Works Director and/or the City Engineer shall determine the sizes of all water mains. A smaller diameter water main may be allowed if the main is placed within fully platted cul-de-sacs where the pipeline does not exceed 400-ft and does not continue through the cul-de-sac to connect with another existing water main. Where a public right-of-way is not available, permanent, exclusive City utility easements shall be obtained with a 20-ft. minimum width. All water mains shall be located within appropriate public access to allow for maintenance. There shall be a minimum of 30-in cover material over all water mains. All water pipes including mains and service lines shall be fitted with a copper, 12-gauge locator wire.

*****REFER TO STANDARD PLAN No. 210.00, 210.01*****

200.02 FIRE HYDRANTS

GENERAL SPECIFICATIONS

Fire hydrants installed within the City of College Place shall meet all standards as set forth in this chapter, the City of College Place Standard Specification Plans & AWWA Standard C502.

Manufacturer Specifications

- ☐ Manufactured in accordance with AWWA Standard C502
- ☐ 5-1/4-in. MVO (Main Valve Opening)
- ☐ 2, 2-1/2-in. Hose Ports
- ☐ 1, 4-1/2-in. Pumper Port
- ☐ Dry barrel
- ☐ Center stem operation
- ☐ 2, Drain ports

Approved Manufacturer Brands

- ☐ Mueller Centurion
- ☐ Clow Medallion

- ❑ MH 929
- ❑ Waterous Pacer (AFC WB 67-250)

******REFER TO STANDARD PLAN No. 210.00, 210.02 - 210.04, & 210.09 - 210.11 ******

Special Pumper Nozzle

Fire hydrants shall be installed with a Storz coupling and cap on the 4-1/2-in pumper port enabling the hydrant to accept 5-in hose.

Storz Specifications

- ❑ 5-in Storz metal face adapter x female hydrant thread. Material shall be 60061-T6 aluminum alloy, forged or extruded, no cast parts. Finish shall be hard coat anodize to mil A-8625c. Dimensional requirements as follows.
 - Overall diameter not to exceed 7-3/4-in.
 - Overall length not to exceed 4-1/4-in.
 - Shall fit National Standard Thread.
 - Shall be supplied with two (2) 14-20 holes drilled and tapped, 180 degrees apart through female thread, to lock adapter to hydrant.
 - Any required sealant shall be supplied with each coupler.
- ❑ The 5-in. Storz cap material shall be 6061-T6 aluminum alloy, forged or extruded, no cast parts. Dimensional requirements as follows.
 - One seal to be nitrile/vinyl rubber, suction style for zero leakage, color to be gray.
 - 1/8-in. vinyl covered aircraft cable, 18-in. minimum length to be attached to the cap & adapter.
 - Force to connect or disconnect to be a minimum of 18-ft./lbs., maximum of 30-ft./lbs.
 - Outside diameter not to exceed 7-3/14-in.
 - Overall length not to exceed 2-in.
 - Shall meet or exceed NFPA standard 1901.

******REFER TO STANDARD PLAN No. 210.04******

200.03

VALVE RISER & BOXES

Valve Box Riser & Cover

The valve riser box shall be centered and fit over the valve-operating nut. It shall be extended to the finished grade surface. Any debris in the valve riser shall be removed prior to job completion. All valve boxes shall be cast iron in structure with a cast iron ring. The cover shall be cast iron and shall be stamped "WATER." The valve box shall be Tyler Union Series 6855 or an approved equal.

******REFER TO STANDARD PLAN No. 210.00, 210.02, 210.03 & 210.08******

200.04 WATER METERS

Water meters typically range in size from Full ¾-in. to 2-in. depending on application. All water meters shall be Metron-Farnier with Innov8 heads. 1-1/2-in. and larger meters shall be determined by application. The minimum size for a residential meter is Full ¾-in. A larger size may be appealed to the Public Works Director. The sizing of water meters will be evaluated and approved by the Public Works Director. All water meters shall register in gallons. The meter register shall be radio read and display from left to right registering in 1,000 gallons. Water meters shall not be placed in driveways. Water meters shall be placed 2-ft behind back of sidewalk.

200.05 METER BOXES

All meter boxes for 1" meters and less shall be plastic in structure. The complete meter box shall have three parts to its assembly. The bottom piece shall be an 18-in. mid-section. **PIPE SLOTS SHALL NOT BE USED.** The top piece shall be a 12-in. top section. The cover shall be a solid cast iron lid with a 9-1/4-in. x 5-1/2-in. lid opening. The lid shall be cast iron with a small oval shaped opening for a meter stick. Meter boxes shall be Mid-States 1324 or an approved equal.

City will provide and install meter box and meter. Coordinate with City staff to schedule installation.

*****REFER TO STANDARD PLAN No. 210.00, 210.06, 210.07, 210.21 & 210.22 *****

200.06 SERVICE LINE PIPE

All service lines shall be a minimum of 1-in. in size. The material used for 1-in. service piping shall be either Type K copper or CTS (Copper-Tube Size) Polyethylene Pipe. Service lines larger than 1-in. shall be constructed with CTS Polyethylene Pipe or Type K copper. If Polyethylene Pipe is used, a stainless steel insert shall be placed at each connection and No.12 solid copper tracer wire must be placed along the pipe from the main to the top of the meter box.

*****REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 *****

200.07 SERVICE LINE INSTALLATIONS

The City of College Place does not allow direct taps to water mains. The City requires the installation of a tapping saddle. Tapping saddles with 1-in. taps may be single strap service saddles. Tapping saddles with taps larger than 1-in. shall be a double strap. Single strap saddles shall be ROMAC 101S or an approved equal. Double strap saddles shall be ROMAC 202S or an approved equal. Saddles shall be placed on the water main with the tap set at a 9 or 3-o'clock orientation to the water main. The corporation stop shall be placed into the saddle with the valve key facing up. Polyethylene shall be laid with slack in the line to allow for contraction and elongation due to temperature changes. Copper shall have a slight lateral curve from the corporation stop to the meter setting. Bedding of service lines shall be in accordance with the bedding specifications. The

top to the meter setting shall be no less than 16-in. from ground level and no more than 22-in. from finished grade.

*****REFER TO STANDARD PLAN No. 210.00, 210.01, 210.05 & 210.06 *****

200.08 SERVICE AND METER BRASS

All brass shall be either Ford or Mueller. A description of the fitting will be more useful than the product number when approval is being sought from the City.

CORPORATION STOPS

All corporation stops shall be ball valve type with MIPT (Male Iron Pipe Thread) x CTS (Copper Tube Size) compression fittings.

ANGLE BALL VALVES

All meter shut off valves shall be ball valves. Depending upon application, the following angle ball valves may be used.

Ball Valve Types Allowed

- ☐ 1-in. FIPT (Female Iron Pipe Thread) inlet with meter swivel nut outlet.
- ☐ 1-in. Compression inlet with meter swivel nut outlet.
- ☐ 1-1/2-in. & 2-in. FIPT (Female Iron Pipe Thread) inlet with meter flange outlet

ANGLE CHECK VALVES

Check Valve Types

- ☐ 1-in. meter swivel nut inlet with FIPT or compression outlet
- ☐ 1-1/2-in. & 2-in. meter flange inlet with FIPT or compression outlet

200.09 MAINLINE VALVES

GENERAL SPECIFICATIONS

All valves shall open by turning counterclockwise. All underground valves shall have a 2-in. square-operating nut. All valves shall be rated and tested at 150 lbs. working pressure or greater. All valves shall be bolted to fittings whenever possible. All valves shall be equal to the water main size they are attached to.

GATE VALVES

Gate valves shall be used for all valves up to 8" valves and may be used for valves up to 12". All gate valves shall be resilient wedge gate type valves and shall be manufactured according to AWWA Standard C509-87.

BUTTERFLY VALVES

Butterfly valves may be used for valves 10" and greater. Any valve larger than 12-in. shall be a butterfly valve. All butterfly valves shall be manufactured according to AWWA Standard C509-87.

VALVE PLACEMENT

Valves shall be spaced and system pipelines looped so that no more than one block is deprived of service in the event of a shutdown of any pipeline segment to which customers are connected. In addition, lengths of pipe without valves shall not exceed 500-ft. in school, commercial, or multi-family areas and 600-ft. in residential areas. At any tee connection, all legs of the tee shall be valued. Fire hydrant tee assemblies may have only fire hydrant value.

*****REFER TO STANDARD PLAN No. 210.00 - 210.03 & 210.08 *****

200.10 BEDDING

All pipes shall have 4-in. of crushed rock underneath for bedding and 6-in. of crushed rock above the pipe and across the entire pipeline ditch. This bedding requirement shall apply to all water mains and service lines. Bedding materials shall be per the Standard Specifications. The Public Works Director shall approve all other bedding material.

*****REFER TO STANDARD PLAN No. 210.00, 210.02, & 310.08 *****

200.11 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used. This backfill requirement applies to all water mains and service lines.

*****REFER TO STANDARD PLAN No. 210.00, 310.08*****

200.12 SUB-DIVISION REQUIREMENTS

All developers of sub-divisions shall be required to install all water appurtenances according to the Water System Specifications contained in this document. It shall be the developer's responsibility to bear the cost of all water-related installations.

On newly poured curbs, the capital letter "W" shall be stamped on the top to the curb, while the concrete is still wet, where the service lines cross under the curb. A treated 2 x 4 wood stake shall be placed over the service stub past the meter box for location purposes. All lots shall have individual water services. Water services to individual lots shall be placed at a property corner on the street side of the lot a minimum of 2-ft from backside of sidewalk and no more than 5-ft of the property line.

*****REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 *****

200.13 PRESSURE CONTROL VALVES

All pressure control valves shall be Clayton control valves (Cla Valves). All applications shall be reviewed and approved by the Public Works Director before installation is allowed.

200.14 FITTINGS

All fittings shall meet AWWA standards. Class 350 Ductile Iron SSB fittings are allowed. Cast (Gray) Iron fittings meeting AWWA Standard C110 are allowed.

200.15 FIRE HYDRANT PLACEMENT

Wherever possible, fire hydrants shall be located at street intersections, and located to minimize the hazard of damage by traffic. All fire hydrants shall have an isolation valve located at the water main. A minimum 6-in. diameter lateral pipe and isolation valve is required for connecting hydrants to the main line. Where hydrants are located more than 50-ft. from an 8-in. or larger main, a minimum 8-in. diameter lateral pipe and isolation valve is required. Fire hydrants shall stand plumb and be set to finish grade. The bottom of the lowest outlet of the hydrant shall be no less than 18-in. above finished grade. Fire hydrants shall be installed with a minimum of a 3-ft. unobstructed radius around the hydrant. Hydrants shall be aligned so that pumper ports face toward the road or most probable route of access of the fire truck. Hydrants shall be placed a minimum of 3-ft behind the back of curb with an off-set sidewalk. Hydrants shall be placed 2-ft behind the back of sidewalk with a curb tight sidewalk. If there is no curb protection for the hydrant then hydrant guard posts shall be installed around the hydrant with a 3-ft minimum clearance. A minimum of 2 hydrant guard posts shall be installed on the side facing the street.

Hydrant Spacing

- | | |
|---|--------------------|
| ☐ Urban Residential less than ¼ acre | 330-ft. separation |
| ☐ Suburban Residential ¼ acre to 1 acre | 660-ft. separation |
| ☐ Commercial/Industrial and Multi-Family | WAC 246-293 (DOH) |

The above classifications are general in scope. The Fire Marshal and Public Works Director may impose more restrictive requirements.

*****REFER TO STANDARD PLAN No. 210.00 – 210.04 & 210.09 – 210.11 *****

300 SANITARY SEWER SPECIFICATIONS

300.01 GENERAL SANITARY SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction” published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document.

Sewer main extensions shall be governed by Article V “Sewer Main Extensions” Sections 13.08.260 through 13.08.305 of the College Place Municipal Code. Plans shall be submitted with the seal of a Washington Professional Engineers Stamp.

Sanitary sewer less than 8-in. diameter will not be accepted for City maintenance. Only privately maintained sewers may be less than 8-in.

300.02 APPROVED MAINLINE MATERIALS (8-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ Others only as approved by the Public Works Director

300.03 APPROVED SERVICE LATERAL MATERIAL (4-in. MAXIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ ABS (Acrylonitrile-Butadiene-Styrene) pipe (private lines only)

PVC pipe joints shall conform to ASTM D 3212 using restrained gasket conforming to ASTM F 477.

*******REFER TO STANDARD PLAN 310.00, 310.04, 310.05, 310.06 & 310.08*****

300.04 BEDDING

All sanitary sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill on compacted bedding at a minimum of every 100' and at manhole terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Sanitary pipe and manholes subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17.

The bedding under pipe and manholes shall be compacted prior to pipe and manhole placement to provide uniform support along the entire length of the pipe and under manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 310.00 – 310.03 & 310.08 ******

300.05 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN 310.00 & 310.08******

300.06 CLEANING, TESTING AND MARKING

All pipes shall be tested by application of an air pressure test in accordance with the Standard Specifications 7-17.3(2) E or F as applicable. Cleaning and removal of any rock in the sewer is required. After cleaning, the City shall be notified to observe TV inspection (performed by Contractor or their assignee) of all lines 8-in. and larger. Any work failing air test and or TV

inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

Lateral side sewer services must be marked with a No. 12 solid copper locator wire and the ends, marked with buried steel fence post extended above the ground at least 3 feet. The locator wire shall be tied around the main line and extended along the side sewer and up the marker post.

******REFER TO STANDARD PLAN 310.00, 310.05 & 310.06 ******

300.07 MANHOLES

Manholes shall be provided at all angle points. Points of grade change and at the ends of sewer main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes shall be constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast materials cannot be used, sand collars and grout seal or similar transitions shall be used where the pipe is connected to the manhole. All joints must be watertight. Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Pre-cast bases shall be set level on a minimum of 6-in. of well compacted crushed aggregate. Manhole barrel sections and riser rings shall be sealed watertight with mastic. All sewer manholes shall be sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be pressure tested when seasonal high groundwater is over 3' from high from the base.

Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

******REFER TO STANDARD PLAN 310.00 – 310.04 & 310.07******

300.08 SEALING-MANHOLES

Manhole barrel sections and riser rings shall be sealed watertight with mastic. In addition, all manholes subjected to groundwater shall be sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be vacuum tested when seasonal high groundwater is over 3' high from the base. The structure will be tested in accordance with ASTM-C 1244-93 as follows:

- A. All lift holes and pipes entering into the manhole will be plugged, taking care to securely brace each plug from being drawn into the structure.
- B. The test head will be placed at the top portion of the structure in accordance with the manufacturers' recommendations.
- C. A vacuum of 10 inches of mercury will be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. With the valves closed, the time will be measured for the vacuum to drop by 1 inch to 9 inches. The manhole will pass the vacuum test if the time is greater than the time shown in Table 1.
- D. If the manhole fails the initial test, necessary repairs will be made by an approved method. The structure will then be retested until a satisfactory test is obtained.
- E. If the manhole joint is displaced during the vacuum test, the manhole will be disassembled, the seal replaced, the structure reassembled, and retested until compliance is obtained.
- F. Testing can be done either before or after backfill operations around the structure; however, if during backfill operations it is found that the structure has been disturbed and it is suspected that the integrity of the joint has been compromised, retesting will be required.
- G. Table 1 below gives allowable time loss in seconds; i.e., test section is acceptable if vacuum does not drop below 9 inches until after the times shown below have expired.

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	48	51	57
16	22	24	29	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81
22	31	33	39	46	55	64	72	79	89
24	33	36	42	51	59	64	78	87	97

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
26	36	39	46	55	64	75	85	94	105
28	39	42	49	59	89	81	91	101	113
30	42	45	53	63	74	87	98	108	

(Reference: City of Olympia Engineering and Development Standards, 2013)

******REFER TO STANDARD PLAN No. 310.00 & 310.07 *****

300.09 SERVICE LATERALS

Sewer service laterals for single family residential dwellings shall be 4-inches and have a minimum slope of 2.0% slope.

Sewer service laterals shall be 6-inch or larger for multi-tenant buildings or collect flows for multiple 4-inch service lines servicing separate dwellings.

Sewer service laterals shall be 6-inch or larger for commercial and multi-tenant buildings unless approved by the Public Works Director.

300.10 CLEANOUTS

Cleanouts are required on service laterals as required to meet the following:

- At each 90° elbow (note required if two 45° elbows are used).
- When a total of 135° bends have been made in the installation
- Not more than 100-ft of line can run without a cleanout being installed
- A cleanout will be required where the connection is made near the building unless an existing cleanout already exists just outside or just inside the foundation or basement.
- A cleanout is required immediately downstream of the sewer backflow device if a backflow device is required.
- All cleanouts shall be the same size as the lateral they serve.

401 STORM SEWER SPECIFICATIONS

401.01 GENERAL STORM SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest addition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction” published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document.

401.02 MANHOLE-BASED STORMWATER COLLECTION SYSTEMS

Stormwater collection systems shall route stormwater from individual catch basin inlets to manholes. Stormwater shall not be routed by means dependent upon surface elevations subject to change due to road resurfacing or chip sealing.

401.03 APPROVED MAINLINE MATERIALS (10-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ HDPE (High-Density Polyethylene) smooth bore, annular ring pipe meeting ASTM F 667.
- ☐ Others only as approved by the Public Works Director.

401.04 MINIMUM SIZE OF STORM SEWERS

The minimum diameter of any public storm sewer pipe in the City of College Place shall be 10-in. Smaller sizes may be approved by the Public Works Director. Storm lines shall maintain a minimum 2.5 fps velocity at design flow and 3 fps flowing full.

401.05 BEDDING

All storm sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill, on compacted bedding at a minimum of every 100' and at manhole and curb inlet (catch basin) terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases and curb inlets (catch basins) shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Stormwater pipe, manholes and curb inlets subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17 and City Standard Plan 310, Sections 16 & 17.

The bedding under pipe, curb inlets and manholes shall be compacted prior to pipe, curb inlet and manhole placement to provide uniform support along the entire length of the pipe and under curb inlets and manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe, curb inlet or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.06 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.07 CLEANING AND TESTING

The Public Works Director may require the application of an air pressure test on any storm sewer pipes per Standard Specifications 7-04.3(1) E or F as applicable. Cleaning and removal of any rock is required. After cleaning, the City shall be notified for TV inspection of all storm sewer lines. Any work failing an air test and or TV inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

******REFER TO STANDARD PLAN No. 410.00 & 410.01 – 410.07******

401.08 MANHOLES & CURB INLETS (CATCH BASINS)

Manholes shall be provided at all angle points. Points of grade change and at the ends of storm main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between

manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes with PVC connections are typically constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast manholes are not required, sand collars with grout seal or similar transitions shall be used on PVC pipe where the pipe is connected to the manhole. HDPE pipe connections to the manhole may be grouted ("A-lok" and sand collars not required). Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Catch basins shall be placed to minimize flow of water by pedestrian sidewalk ramps and no more than 350 feet apart. Curb inlets (catch basins) with PVC line connections shall use sand collars with grout seal ("A-lok" also acceptable). Similar transitions may be used with Public Works Director approval. HDPE pipe connections to the curb inlets may be grouted (sand collars not required).

Bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

*****REFER TO STANDARD PLAN No. 410.00, 410.04 – 410.07*****

401.09 SEALING-MANHOLES

Manhole sealing requirements for storm sewer facilities shall be the same as those for sanitary sewer facilities.

*****REFER TO STANDARD PLAN No. 410.00*****

410 STORMWATER FACILITY SPECIFICATIONS

The City of College Place's Stormwater Facility Specifications employ a stormwater facility certification process which provides the responsible design engineer with considerable latitude in design and construction of stormwater facilities. On projects that require stormwater facilities, the responsible engineer submits a stormwater report and a stamped Stormwater Design Certification (STD Plan 410.10) with plans submitted for review and then submits a Stormwater Facility Construction Certification (STD Plan 410.20) once the facility is constructed. A stormwater construction certification statement is also required to be placed on the record drawings.

In general, the City will accept and rely upon the professional engineer's certification; however, the City reserves the right to review the submittal for compliance.

During the development of individual lots, the permittee is required to certify that final grading on the lots will conform to the stormwater design.

410.01 PROFESSIONAL ENGINEER

Stormwater facility designs shall be prepared and sealed by a professional engineer licensed in the State of Washington.

410.02 DESIGN STANDARDS

Stormwater facilities shall be designed and constructed in accordance with the recommendations and guidance of the current edition of the Stormwater Management Manual for Eastern Washington (SMMEW) and the most recent update of the *City of College Place Stormwater Facility Standards*.

500 GRADING AND SLOPE SPECIFICATIONS

Cut and fill slopes exceeding a 4 (horizontal):1(vertical) slope and exceeding 8 ft. in height shall be subject to the following requirements except as permitted by the Public Works Director.

500.01 PROFESSIONAL ENGINEER

Cut and fill slope designs shall be prepared and sealed by a professional engineer licensed in the State of Washington (engineer-of-record) with demonstrated geotechnical experience acceptable to the Public Works Director.

500.02 DESIGN ELEMENTS

Slope designs shall be designed to meet all loading and surcharge requirements and shall incorporate 10-ft. minimum width benches allowing for vehicle access at no more than 10-ft. vertical intervals and a drainage/stormwater system meeting the requirements of City Stormwater Standards and the current edition of the Stormwater Management Manual of Eastern Washington. Fill slopes shall not exceed 2:1. Designs shall meet all requirements of the currently adopted IBC and IRC. The design shall include lift and compaction requirements as required by the engineer-of-record and shall incorporate long-term slope stabilization measures. Designs using plant-based stabilization measures shall include irrigation systems to establish vegetation. Set-backs from the slope, if any, shall be included in the design and shown on any approved construction plans and recorded plats.

500.03 PERFORMANCE ASSURANCE

Upon completion, slopes shall be certified by the engineer-of-record to meet, as constructed, the requirements and specifications of the design. Occupancy for structures above and below the slope shall not be permitted until all slopes and other improvements as noted in CPMC 14.10.070 A.2.a.(2) are recognized as complete by the City. Vegetation-related slope stabilization measure shall be financially guaranteed until certified to be established for unmaintained growth by a licensed arborist (or equivalent license) acceptable to the City.

600 PARKING LOT SPECIFICATIONS

These parking lot standards supplement CPMC 14.60.070. CPMC 14.60.070 shall govern in the event of a conflict between these standards and CPMC 14.60.070.

600.01 APPLICABILITY

Off-street parking and loading space shall be provided in accordance with the requirements of these specifications for all new development activities including the construction of new buildings, the expansion of existing buildings, changes of use, and/or changes to the terms and conditions of occupancy such as enlarging, moving or increasing capacity by creating or adding dwelling units, commercial or industrial floor space, or seating facilities, or by making alterations to parking areas..

600.02 GENERAL REQUIREMENTS

The provision and maintenance of off-street parking and loading facilities shall be a continuing obligation of the owner or sponsor of a use, so long as the use is in existence and so long as parking and loading facilities are required in connection with a given use.

With regard to pre-existing parking facilities, the following shall apply:

- a. A pre-existing use which does not have sufficient parking facilities to meet the requirements of this chapter may continue to operate with the parking deficiency so long as no enlargement or other change is made in the use, building size or which would require additional parking facilities;
- b. When a preexisting use is modified or enlarged so as to require additional parking facilities, these standards shall apply;
- c. When additional uses are placed on the same lot with the preexisting use or an enlarged lot of which the preexisting use lot is a part, standards shall apply only to the additional use.

600.03 DESIGN REQUIREMENTS

All required off-street parking and loading facilities shall be developed in accordance with the following:

All required parking spaces shall be located on the same site with the building they serve, unless:

- A shared or joint use parking agreement has been approved by the city; or
- A voluntary in lieu of payment to provide the required parking in a public or cooperative parking facility has been approved by the city; and/or
- The city makes a written finding that adequate on-street parking exists to reasonably serve the new development/use.

Minimum parking area dimensions shall be as in the Off-street Parking Area Dimensions table.

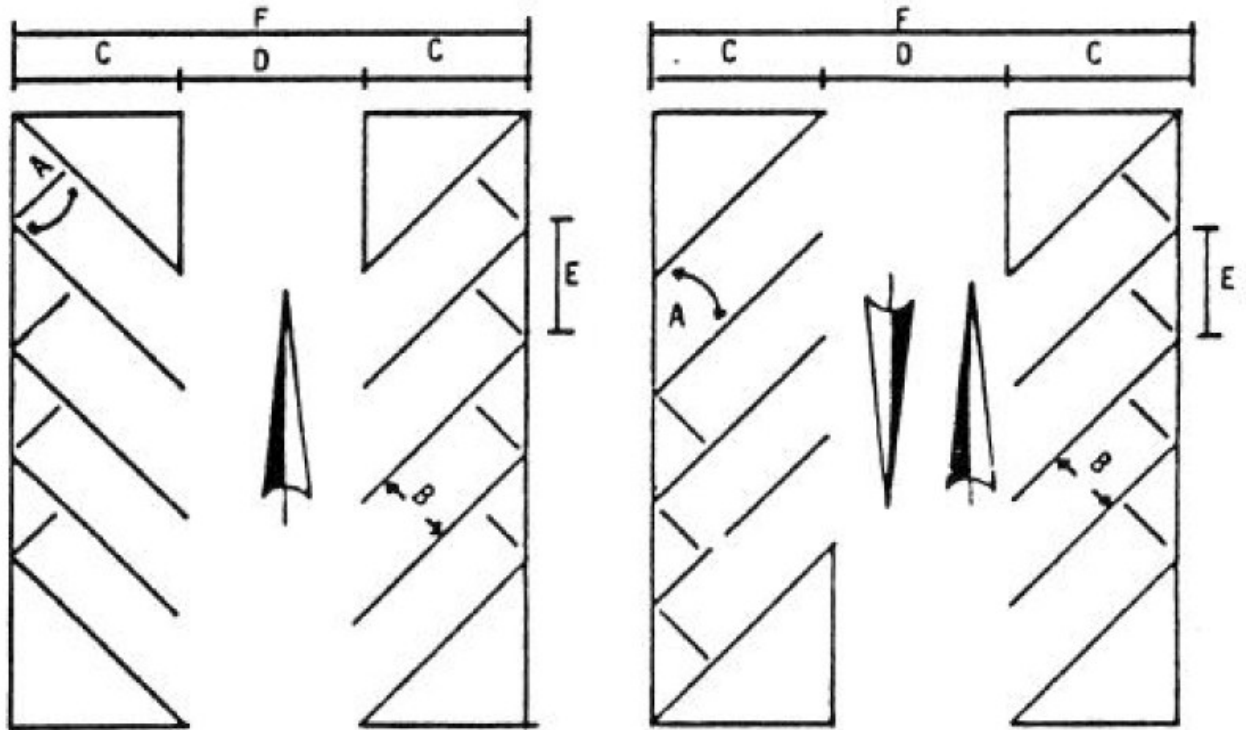
The slope of entrance and exit driveways providing access to public streets for off-street parking areas shall not exceed ten percent unless otherwise approved by the Public Works Director.

Driveways and Maneuverability

1. All required parking spaces shall be in usable shape and condition and adequate ingress to and egress from each space shall be provided without moving another vehicle.
2. Turning and maneuvering space shall be located entirely on private property unless specifically approved by the Public Works Director.
3. All parking spaces shall be internally accessible to one another without reentering adjoining public streets unless otherwise approved by the Public Works Director.
4. Ingress and egress to and from any off-street parking area shall not be located closer than twenty feet from point of tangent to an intersection or pedestrian crosswalk unless otherwise approved by the Public Works Director.
5. Separate ingress and egress may be required for smoother and safer flow of traffic.

TABLE 600.A							
Off-Street Parking Area Dimensions (Use in conjunction with Figure 600.A) (*Compact Stalls)							
A	B	C	D		E	F	
			Aisle Width			Unit Width	
Parking Angle	Stall Width	Stall Depth	One-Way Traffic	Two-Way Traffic	Curb Length Per Car	One-Way Traffic	Two-Way Traffic
0°	8.0*	8.0*			20.0*	28.0*	36.0*
	8.5	8.5	12.0	20.0	23.0	29.0	37.0
20°	8.0*	13.0*			23.4*	37.0	46.0*
	8.5	14.5	11.0	20.0	24.9	40.0	49.0
	9.0	15.0	11.0	20.0	26.3	41.0	50.0
	9.5	16.5	11.0	20.0	27.8	42.0	51.0
30°	8.0*	14.9*			16.0*	40.8*	49.8*
	8.5	16.9	11.0	20.0	17.0	44.8	53.8
	9.0	17.5	11.0	20.0	18.0	45.6	54.6
	9.5	17.8	11.0	20.0	19.0	46.6	55.6
40°	8.0*	16.4*			12.5*	44.8*	52.8*
	8.5	18.7	12.0	20.0	13.2	49.4	57.4
	9.0	19.1	12.0	20.0	14.0	50.2	58.2
	9.5	19.5	12.0	20.0	14.8	51.0	59.0
45°	8.0*	17.0*			11.3*	46.5*	54.0*
	8.5	19.4	12.5	20.0	12.0	51.3	58.8
	9.0	19.8	12.0	20.0	12.7	51.6	59.6
	9.5	20.1	12.10	20.0	13.4	52.2	60.2
50°	8.0*	17.4*			10.4*	47.3*	54.8*
	8.5	20.0	12.5	20.0	11.1	52.5	60.0
	9.0	20.4	12.0	20.0	11.7	52.8	60.8
	9.5	20.7	12.0	20.0	12.4	53.4	61.4
60°	8.0*	17.9*			9.2*	53.3*	55.8*
	8.5	20.7	17.5	20.0	9.8	58.9	61.4
	9.0	21.0	17.0	20.0	10.4	59.0	62.0
	9.5	21.2	16.5	20.0	11.0	58.9	62.4
70°	8.0*	17.8*			8.5*	55.1*	55.6*
	8.5	20.3	19.5	20.0	9.0	61.1	61.6
	9.0	21.0	19.0	20.0	9.06	61.0	62.0
	9.5	21.2	18.5	20.0	10.1	60.9	62.4
80°	8.0*	17.2*			8.1*	57.4*	53.4*
	8.5	20.2	23.0	24.0	8.6	63.4	64.4
	9.0	20.3	22.0	24.0	9.1	62.6	61.6
	9.5	20.4	21.0	24.0	9.6	61.8	64.8
90°	8.0*	16.0*			8.0*	56.0*	57.0*
	8.5	19.0	24.0	25.0	8.5	62.0	63.0
	9.0	19.0	23.0	24.0	9.0	61.0	62.0
	9.5	19.0	22.0	24.0	9.5	60.0	62.0

FIGURE 600.A



Surfacing Requirements.

1. All parking areas and facilities shall be paved with asphalt or concrete and shall be graded and shall conform to the City's Stormwater Facility Standards and the Stormwater Management Manual for Eastern Washington.
2. All traffic control devices such as parking stripes designated car stalls, directional arrows or signs, wheel stops, curbs and other developments shall be installed and completed as shown on the approved plans.
3. Paved parking areas shall use paint or similar devices to delineate car stalls, direction of traffic flow and pedestrian walkways.
4. Wheel stops shall be required on the periphery of all parking lots so that cars will not protrude into the public right-of-way, sidewalks or paths, off the parking lot, onto adjacent property or strike a building, fence, or landscaping. Wheel stops shall be three feet from the end of the stall for head-in parking. Wheel stops are not required for parallel parking or for diagonal or head-in parking against an 8-ft or wider sidewalk.

5. All parking areas, except those in conjunction with a single-family or two-family dwelling shall be graded so as not to drain storm water over the public sidewalk or onto any abutting public or private property.
6. Building permits shall be required for all parking lot construction, repair or resurfacing. Parking lot servicing shall not encroach upon the public right-of-way.

Lighting Requirements. Exterior lighting for all uses and signs shall be directed downward and otherwise arranged, shaded, screened, shielded, and of a design that results in the light being directed onto the site and of an intensity or brightness as follows:

1. So as not to interfere with the safe operation of motor vehicles, bicyclists, and other legal use of the roadway or sidewalk;
2. Maximum illumination at neighboring property lines shall not exceed 0.5 foot-candles at grade level;
3. Luminaries shall be aimed and shielded in a manner that shall not direct illumination on adjacent properties;
4. Full cutoff shielding is required for all luminaries to prevent wasted light up into the dark sky and prevent glare from normal viewing angles;
5. Shielding is required for luminaries located along property lines to prevent spill light onto adjacent properties; and

The city may require that the project sponsor submit a photometric plan and analysis to verify compliance with these standards.

Curb Cuts.

1. The number of curb cuts shall be kept to a minimum whenever possible so as to reduce the potential traffic flow conflict of vehicles and pedestrians.
2. All parking areas shall have specific ingress and egress areas to the street not exceeding width governed by 100.09 Driveways unless otherwise approved by the Public Works Director.
3. Joint-use or shared curb cuts shall be reviewed and approved and may be required by the Public Works Director.

Required parking spaces

1. Required parking spaces shall not be used for the permanent or semi-permanent parking or storage of vehicles or materials. Parking spaces are designed for use as temporary storage of employee, visitor or resident motor vehicles only.
2. All parking areas shall comply with the following landscaping provisions:
 - a. All required landscaping and landscaped buffers shall be designed by a qualified professional and submitted as a landscape plan in a format prescribed by the city, for review and approval.
 - b. Unless otherwise provided, all required landscaping shall be evenly distributed and shall consist of a mixture of hardy evergreen planted material including trees, low, medium and high-profile shrubs, together with suitable ground cover consisting of natural grasses, vines, bark mulch, and rockeries;
 - c. When plantings are used in screening or landscaping, they shall be compatible with area climate conditions and shall be provided with either a manual or automatic irrigation system;
 - d. The use of native plants and low water usage plantings is encouraged; and
 - e. All landscaping shall be placed and maintained in such a manner as not to impair vehicular visibility at parking area points of ingress/egress, emergency vehicle access, city maintenance activities, and shall comply with the sight visibility requirements in this section.
3. All required off-street parking facilities which have 15 or more parking spaces shall provide landscaping in conformance with the following:
 - a) A perimeter landscaped border of at least five feet wide around the parking area.
 - b) Interior landscaping in at least ten percent of the total land area covered in parking.
 - c) The interior of the parking areas shall contain landscape islands and peninsulas located in such a manner as to:
 - i) Divide and break up large expanses of paving;
 - ii) Guide traffic flow and direction;
 - iii) Promote pedestrian and vehicular safety; and
 - iv) Preserve existing trees and vegetation.
 - d) Landscape islands shall be installed to break up the parking area into rows of not more than 20 contiguous parking spaces or ten spaces in one row.
 - i) Each end of each row of parking spaces shall require a landscape island unless the end of such row of parking spaces is adjacent to a perimeter landscape;
 - ii) The minimum width for a landscape island or peninsula shall be five feet; and
 - iii) Each landscape island or peninsula shall contain a minimum of one shade tree and a combination of five deciduous and evergreen shrubs or groundcover.

4. Parking spaces, loading facilities, and all pedestrian areas shall be provided in accordance with the provisions of state and federal law, including the American with Disabilities Act (ADA), and the International Codes, as adopted by the city.
5. Required parking, pedestrian, loading, and bicycle facilities proposed in the downtown mixed-use district shall be provided by the project sponsor, at the rear or side of the building; and
6. Shared detached garages and surface parking should be located so their visual presence is minimized and associated noise or other impacts do not intrude into public spaces and shall be screened from public streets and adjacent residential uses.

600.04 INSPECTION REQUIREMENTS

All private parking lots and parking lots to be dedicated to the City shall be inspected and certified (stamped) by a professional engineer licensed to practice in the state of Washington to comply with City parking lot specifications and standards.

600.05 NUMBER OF SPACES REQUIRED

The minimum number of off-street parking spaces shall be determined in accordance with the Table 600.B. Where alternative standards are indicated, the greater requirement applies. In cases of mixed uses or occupancies, the various uses shall be computed separately and combined for the total off-street parking requirement. Where computations result in a fraction, the parking space requirement shall be rounded to the nearest whole number.

If the parking requirements for a use are not specifically identified below, the parking requirements shall be determined by the city in a written finding based upon:

- a. The requirements for the most comparable use defined in this chapter; and/or
- b. The appropriate standards derived from the Institute of Transportation Engineers (ITE)'s Parking Generation Manual, as adopted by the city; and/or
- c. A parking study prepared by the applicant documenting the expected parking demand for the proposed use; and/or. Required parking for the proposed use as determined by other comparable jurisdictions.

Similarly, parking uses preceded by an “*” may alternatively be determined by one of the methods above.

TABLE 600.B

	Spaces Required
Single-family and two-family dwellings	Two spaces/dwelling unit
Multifamily dwellings	One and one-half spaces/dwelling unit with two or more bedrooms; or One space/dwelling unit with one bedroom or a studio apartment.
Accessory Dwelling Unit	One additional space/ADU
Mobile home parks	Two spaces/dwelling unit
Cottage housing	One space/dwelling unit
Vacation Rentals	Two spaces/dwelling unit with two or more bedrooms; One space/dwelling unit with one bedroom or studio dwelling unit.
Bed and Breakfast Inn	One space/guest room
*Fraternities, sororities and dormitories	1 per 3 occupants
Hotels/motels	One space/guest room; and at least one space for each employee at work during peak periods; and one space/500 feet of common areas.
*Boardinghouses and lodging homes	1 per sleeping room or lodging unit
*Senior citizens housing, designed with independent dwelling units	0.5 per dwelling unit
*Hospitals	1 per 3 beds
*Convalescent, nursing and rest homes	1 per 6 beds plus 1 per each staff member on duty on a maximum shift
*Churches, mortuaries and funeral homes, auditoriums, and other enclosed places of assembly	1 per 5 fixed seats, or 1 per 100 lineal inches of bench-type seating, or 1 per 100 square feet of gross floor area used for assembly purposes
*Public facilities, including libraries, police and fire stations	To be determined by the planning commission
*Schools, elementary and junior high, public, private or parochial	1 per each employee and each faculty member and 1 per 6 seats of assembly area
*Schools, colleges, high, public, private or parochial	1 per 15 students, plus 1 per each employee and faculty member and 1 per every 4 seats of assembly area
Retail, commercial and office buildings	One space/200 square feet plus adequate employee parking and;

	at least one space for each employee at work during peak periods.
Industry and Warehouse	One space/500 square feet
*Restaurants.....	1 per every 3 persons based on occupancy load
*Drive-in restaurants	1 per employee on maximum working shift and 1 per 100 square feet total floor area
*Shopping centers	1 per 300 square feet of gross floor area
*Theaters	1 per 3 seats
*Skating rinks	1 per 100 square feet of gross floor area
*Racquetball, handball and tennis courts, including accessory uses	1 per 40 square feet of assembly area plus 2 per court
*Manufacturing uses, research and testing laboratories, assembly plants and similar industrial uses not including office space 1 per employee on maximum working shift	
*Any use not addressed in this table	To be established by the planning commission

600.06 LOADING SPACE REQUIREMENTS

Off-street loading space(s) having access to a public right-of-way shall be required adjacent to each business building hereafter erected or enlarged if the use of such building entails deliveries or shipments to or from it. Such loading space(s) shall be adequate size to accommodate the number and size of vehicles simultaneously loaded or unloaded in connection with the business conducted in such building. No part of a truck, trailer, or van shall extend into the public right-of-way while using the loading space.

600.07 JOINT USE PARKING

The planning commission at a public meeting may authorize the joint use of parking facilities required by this chapter. Off-street parking for primarily nighttime uses such as theaters, bowling alleys, restaurants and related uses may be supplied by certain other daytime types of uses such as banks, offices, retail businesses, personal service shops and related uses.

Applications for utilization of joint use parking facilities may be approved by the planning commission provided the following conditions are met:

1. The parking facilities shall be within 500 feet of the principal buildings involved unless other transport is provided.
2. Joint use parking agreements shall not account for more than 50 percent of required off-street parking spaces.
3. The applicant shall show that there is no substantial conflict in the principal operating hours of the two buildings or uses for which a joint use of off-street parking facilities is proposed.

4. The applicant shall execute among all parties involved a properly drawn joint-use parking agreement which is approved as to form and manner of execution by the city attorney.

Following approval of such agreement by the planning commission, the agreement shall be recorded with the county auditor and filed for permanent record in the city hall.

600.08 COMPACT CAR ALLOWANCE

A maximum of 30 percent of the total required off-street parking spaces may be permitted and designated for utilization by compact cars. Each compact car space shall be designated as such. Dimensions of compact parking spaces shall conform to the standards as depicted in Table 600.A, Off-street Parking Area Dimensions, of this chapter.

600.09 OFFSTREET PARKING FACILITIES-INSTALLATION TIME LIMIT

The installation and improvement of required off-street parking facilities shall be completed to the required standards before a certificate of occupancy for a building is issued unless a time limit extension to a specified date is authorized by the Public Works Director.

600.10 PARKING LOT PLAN-FILING REQUIREMENTS

Detailed plans of off-street parking areas indicating the proposed development shall be filed with the Public Works Director for review. These plans shall include the location, size, shape, design, curb cuts, methods of onsite drainage, adjacent streets, circulation of vehicular and pedestrian traffic, ingress and egress, parking lot lighting and other features and appurtenances of the proposed parking facility. In addition, finished grades shall be required for all paved parking areas and shall be indicated on the plans submitted.

600.11 OFFSTREET PARKING-AUTHORITY TO WAIVE OR MODIFY REQUIREMENTS

The board of adjustment may, by formal action at a public meeting, waive or modify the requirements set forth in this chapter establishing the number of required parking spaces. It shall be the responsibility of the applicant to provide the board with sufficient evidence to identify good cause for such reduction or waiver.

600.12 REQUIRED BICYCLE STORAGE

Bicycle storage spaces shall be provided in conjunction with all multiple family dwelling units (three or more units) at the rate of one space/unit. Each space shall be a minimum length of six feet, a minimum width of two feet and shall be provided with a minimum overhead clearance of seven feet. In commercial districts, bicycle storage spaces shall be provided in conformance with the requirements of the administrator.

600.13 DISABLED PARKING SPACES

Disabled parking spaces shall be provided in accordance with the Uniform Building Code and ADA, whichever is more restrictive.

700 PARK STANDARDS

700.10 PLAYGROUND SURFACES

Playground surfaces shall be a poured in place rubber safety surfacing meeting or exceeding all of the requirements in the following ASTM standards: ASTM D624, ASTM D2859, ASTM E303, ASTM F1292, ASTM F1951, ASTM C1028, and ASTM D412. The system should consist of a dual durometer poured in place system with a wearing layer upper membrane and an underlying impact attenuation cushion layer. The finished surface should be porous and capable of being installed at varying thickness to comply with the Critical Fall Height requirements of the playground equipment specified. The cushion layer should be a mixture of black recycled SBR rubber buffings mixed with a 100% solids moisture cured MDI polyurethane binder or aliphatic (100 pounds of SBR rubber buffings to 12 pounds of binder) installed at the appropriate thickness. As an upgrade, or if recycled SBR rubber buffings are not available, 5/8" chunk rubber with correct amount of urethane for impact attenuation and longevity may be used. Chunk rubber shall not include SBR derived from rubber tires. It must be high quality pre-consumer recycled rubber containing EPDM. The cushion layer should be porous. The wearing surface should be manufactured from 1-4mm Thermoplastic Vulcanized (TPV) virgin colored rubber granules bonded by a binder, 100% solids moisture cured Polyurethane binder or aliphatic (110 pounds of TPV to 22 pounds of binder), and applied to a minimum thickness of ½" (12.7 mm) over the cushion layer. The color should be selected from Manufacturer's color chart by City prior to bidding/ordering materials. Pour in place surfacing shall be installed on a compacted sub-base material per manufacturer requirements.

700.20 PARK LIGHTING

All park lighting should be LED and "Dark Sky" compliant. Parking lots and internal park roadways should be lit to an average of 1-ft candle. Road intersections, pathways, cross walks, etc. should receive 1.5 to 2 times the normal roadway lighting level. Light poles should be powder coated metal or a stainless steel/non-corrosive metal finish. Pavilions, restrooms, and supporting park buildings/structures shall be lit to a minimum of 5-ft candles. Sports fields and courts shall be lit with sports field/court light fixtures that are LED, in a quantity and location to meet the needs of the sporting event with minimal light pollution. Special care shall be given when lighting is adjacent to residential homes. The light levels for a sports court should be an average of 30-ft candles and sports fields such as football, baseball, and soccer shall average 50-ft candles. The City shall approve the style of all lighting.

700.30 PARK BENCHES

Park benches shall be provided at the following minimum rate per acre:

Size of park in Acres	Minimum quantity of Benches
1-3	2*
3-5	3*
5-10	5*
10+	8*

*Note that in parks that provide a playground the minimum quantity of benches shall be increased based on the size of the playground and the number of kids/families likely to be at the park at any given moment.

Benches shall be Anova, Inc. Airi Leaf Series or approved equal and shall include the following:

- 6-ft Bench: Organically modern bench
- Seat Color: Textured Fern
- Frame Color: Textured Black

- Finish: Manufactures supplied finish for metal parts; powder coated
- Installation: Surface Mount and shall be secured to concrete pad.
- Concrete Pad: Bench area shall include a concrete pad directly beneath the bench.
- Material substitutes shall only be approved by the Public Works Director.

700.40 PARK PICNIC TABLES

Picnic tables shall be installed within a pavilion structure at the following rates per shape and roof type of structure.

The matrixes below provide an approximate number of the picnic table capacity for each shelter. Totals were calculated using a standard picnic table size of 5'x6'. Numbers are approximate and informational only.

Polygonal Shelters

Size	Hex.	Oct.	Dod.
16'	2	1	
20'	4	4	
24'	5	4	
28'	7	5	
32'	8	8	
40'	14	14	16
48'	22	22	
50'			27
58'	34	36	
60'			41
64'	42	47	
66'			52
86'			79

Hip Roof Shelters

	Width						
	12'	16'	20'	24'	30'	40'	50'
18'	2						
22'	3						
24'		6	7				
34'	5	8	10	12	16		
42'	6						
44'		12	14	18	20	30	
64'		16	22	25	32	42	56
84'			28	37	40	55	
104'				48	52	79	
70'							64
90'							81
110'							96

Gable Roof Shelters

		Width					
		16'	20'	24'	30'	40'	50'
Length	24'	6	6	9			
	34'	8	10	12	16		
	44'	12	14	18	20	30	
	64'			25	32	42	56
	84'			37	40	55	73
	104'				52	79	90

Square Shelters

	12'	16'	20'	24'	30'	36'	40'	50'
Tables	1	2	6	8	14	20	25	42

The picnic tables shall in general be the 4'x4' unless otherwise directed by the City. The tables shall be in compliance with the requirements of the Pilot Rock 4-ft square pedestal table with recycled plastic top and seats, Model #PQT3/P/G-4PC/U or approved equal and shall include the following:

- Surface mount base plat shall be 3/8"x15-3/4" steel base plate for bolting to a concrete pad.
- Table and Seat Top Manufactured of 100% recycled plastic. Color shall be Solid Cedar.
- Frame shall be steel, powder coated, color Black.
- Table shall have the umbrella hole in the table top with cup and collar.
- Concrete Pad: Bench area shall include a concrete pad directly beneath the bench.

700.50 PLAYGROUNDS

Local Parks/Parklets

These parks are typically less than 1 acre in size. Playgrounds should be roughly 1,500-3,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 2 park benches shall be provided nearest the playground area.

Neighborhood Parks

These parks are typically between 1-5 acres in size. Playgrounds should be roughly 3,500-6,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 3 park benches shall be provided nearest the playground area.

Community Parks

These parks are typically between 5-10 acres in size. Playgrounds should be roughly 6,500-10,000 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 5 park benches shall be provided nearest the playground area.

Regional Parks

These parks are typically greater than 10 acres in size. Playgrounds should be greater than 10,000 square feet in size. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM F1487. A minimum of 10 park benches shall be provided. Location of benches shall be placed throughout the park with a minimum of 5 benches nearest the playground area.

Playground Equipment

All playground equipment installed in designated park spaces shall meet or exceed ASTM F1487-17 Standard Consumer Safety Specification for Playground Equipment for Public Use and Section 424-Children's Play Structures of the International Building Code. Equipment shall include various amenities that may include but not be limited to climbing, sliding, spinning, swinging, brachiating and balancing. Playground equipment shall be grouped for ages of 2-5 and 5-12 and shall be age appropriate. Equipment for the 2-5 age group should be situated near adult supervision and have adequate separation from the 5-12 age group equipment. An accessible route of travel shall be provided to the playground equipment meeting the most current edition of the ADA Standards for Accessible Design.

700.60 IRRIGATION SYSTEM

An automated irrigation system shall be designed and installed to provide industry standard irrigation supply and coverage to the vegetated park areas. Irrigation components/parts shall be manufactured by Hunter Industries and installed in accordance with the manufacturer installation requirements.

700.70 TRAILS/PATHWAYS

Park areas shall incorporate trails and/or pathways throughout the park area. Trails and pathways shall be ADA compliant.

700.80 SECURITY

Park areas shall incorporate the necessary infrastructure for security cameras. Location of security cameras may include but not be limited to trail heads, parking lots, restrooms, and playgrounds. Coordinate with Public Works Director and Chief of Police for more specific security system requirements.

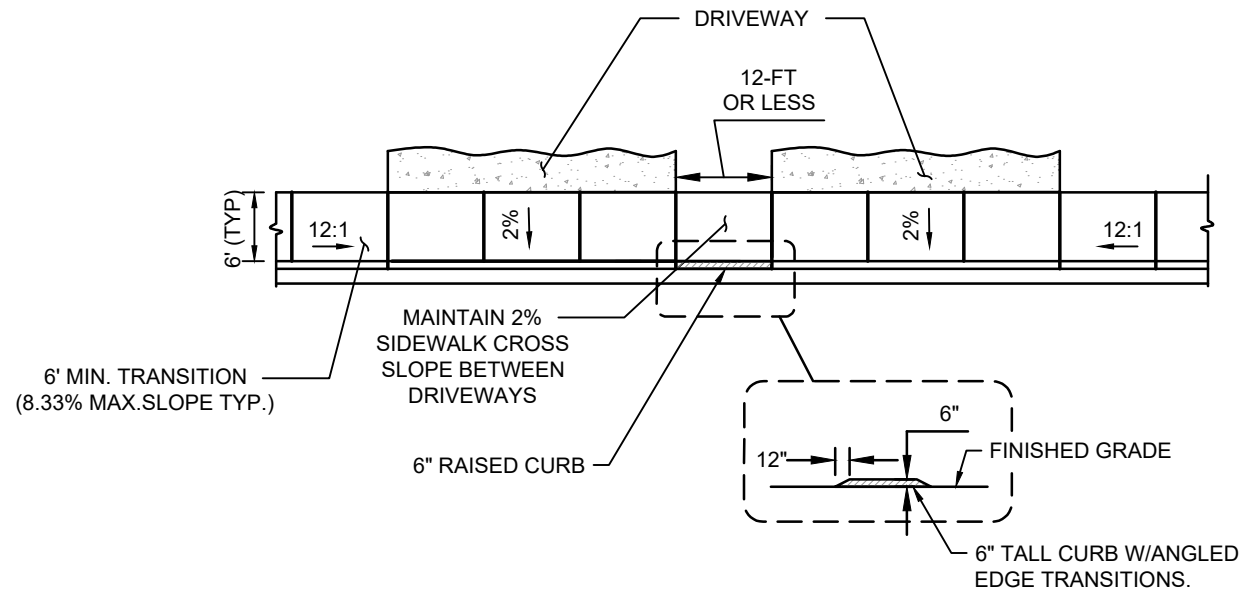
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210.22	1 1/2" & 2" METER BOXES AND LIDS
220.02	ATMOSPHERIC VACUUM BREAKER (AVB)
220.03	DOUBLE CHECK VALVE ASSEMBLY (DCVA/DCDA) - IRRIGATION APPLICATION
220.04	DOUBLE CHECK VALVE ASSEMBLY (DCVA/DCDA) - RESIDENTIAL APPLICATION
220.05	PRESSURE VACUUM BREAKER ASSEMBLY (PVBA/SVBA)
220.06	REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA/RPDA)
220.07	WINTERIZING SPRINKLER SYSTEM
310.01	SANITARY SEWER MANHOLE PROFILE
310.02	SANITARY SEWER MANHOLE PROFILE (Flat Top Type)
310.03	SANITARY/STORM SEWER MANHOLE PROFILE (Shallow with Large Cast Iron Cover)
310.04	SANITARY SEWER DROP MANHOLE PROFILE
310.05	SANITARY SEWER SERVICE CONNECTION
310.06	SANITARY SEWER LATERAL AND CLEANOUT
310.07	MANHOLE COLLAR PLACEMENT DETAIL
310.08	STANDARD TRENCH DETAILS (Water, Sanitary and Storm Sewer)
410.00	STORMWATER NOTES
410.01	CURB INLET FRAME, GRATE & HOOD DETAIL
410.02	PRE-CAST CURB INLET BOX DETAIL
410.04	STORM SEWER MANHOLE PROFILE
410.05	CURB INLET PLACEMENT DETAIL
410.06	TYPE 1L PRE-CAST CURB INLET BOX DETAIL - OIL AND SEDIMENT PROTECTION
410.07	ROUND TYPE PRE-CAST CURB INLET BOX (Non-Hood Inlet)

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. NO SLOPE TRANSITION BETWEEN DRIVEWAYS IF LESS THAN 12-FT OF SEPARATION.
2. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



POLE SPECIFICATIONS:

STANDARD SUPPLIER: HOLOPHANE

POLE MODEL: HOLWDA 12 F5J 17D CO3 BK LAB

MATERIAL: ALUMINUM

COLOR: BLACK

FINISH: POLYESTER POWDER COAT

ANCHOR BOLTS: WSDOT COMPLIANT

LUMINAIRE SPECIFICATION:

STANDARD SUPPLIER: HOLOPHANE

POLE MODEL: HOL PUCL2P2040K MVOLT FC3 BK X

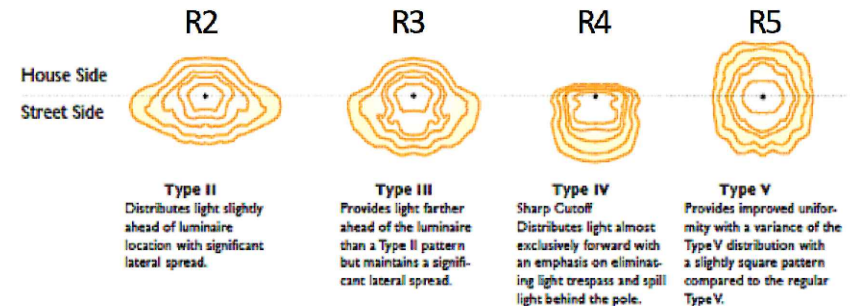
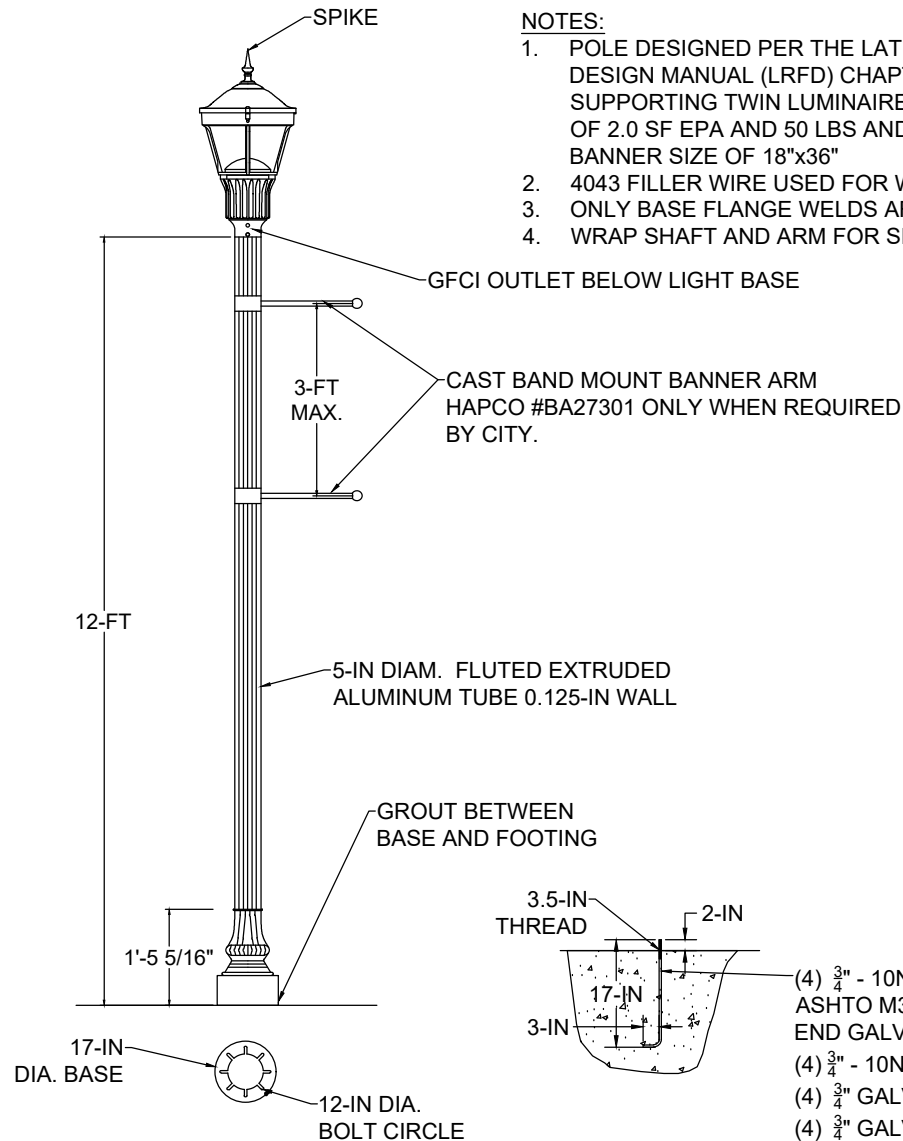
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COLOR: BLACK

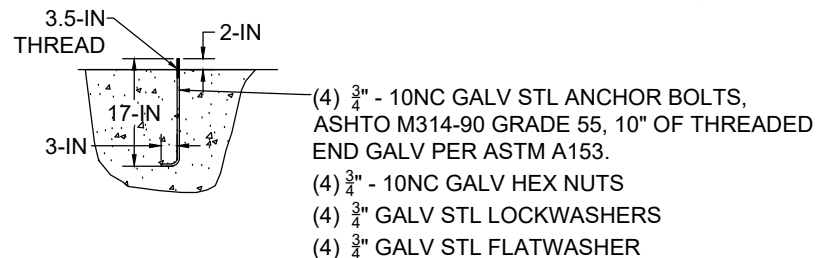
FINISH: POLYESTER POWDER COAT

NOTES:

1. POLE DESIGNED PER THE LATEST WSDOT BRIDGE DESIGN MANUAL (LRFD) CHAPTER 10 WHEN SUPPORTING TWIN LUMINAIRES WITH A MAX. SIZE OF 2.0 SF EPA AND 50 LBS AND A MAX. BREAKAWAY BANNER SIZE OF 18"x36"
2. 4043 FILLER WIRE USED FOR WELDING
3. ONLY BASE FLANGE WELDS ARE HEAT TREATED
4. WRAP SHAFT AND ARM FOR SHIPMENT.



*Contact City to confirm light distribution for desired application.



This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/04/2024

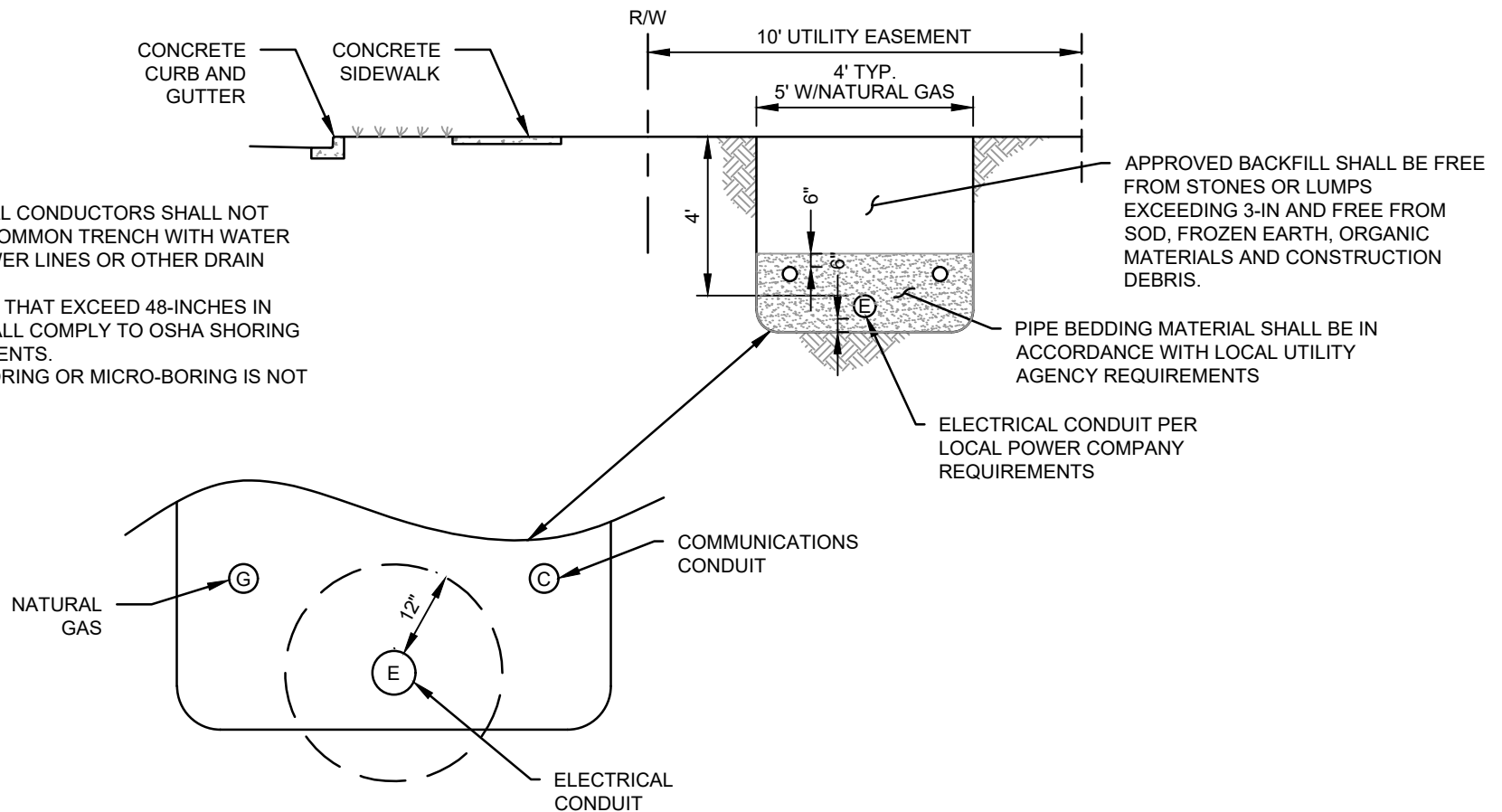
ORNAMENTAL PEDESTRIAN
STREET LIGHTS

STANDARD PLAN
110.73

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

NOTE:

1. ELECTRICAL CONDUCTORS SHALL NOT SHARE A COMMON TRENCH WITH WATER LINES, SEWER LINES OR OTHER DRAIN LINES.
2. TRENCHES THAT EXCEED 48-INCHES IN DEPTH SHALL COMPLY TO OSHA SHORING REQUIREMENTS.
3. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.



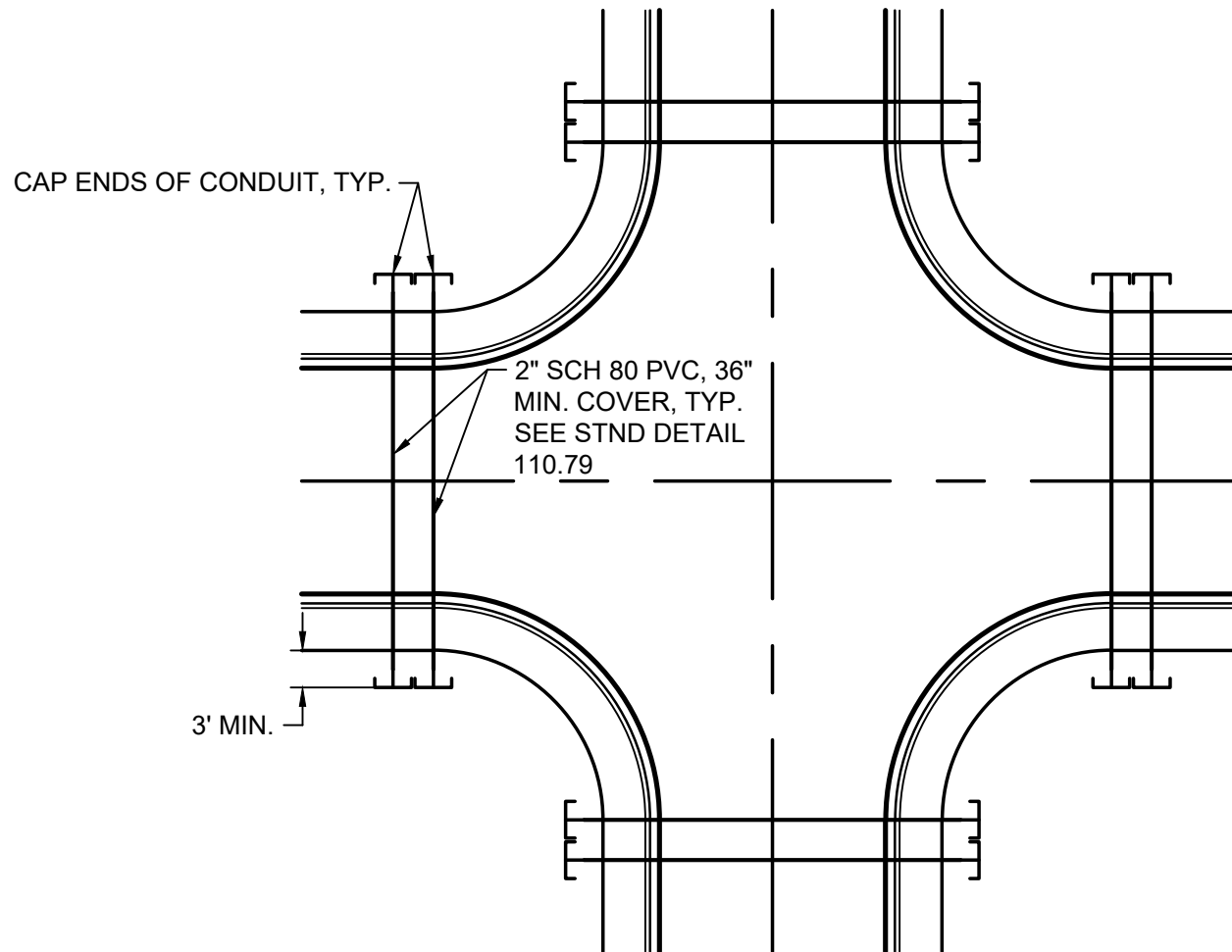
This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. CONDUIT SHALL BE ELECTRICAL GRADE SCH 80 PVC.
2. CONDUIT SHALL HAVE PULL STRING.
3. 36" BURY DEPTH.
4. CONDUIT SHALL BE PLACED AT THE 4 LEGS OF THE INTERSECTION.
5. THIS DETAIL IS APPLICABLE TO ARTERIALS AND COLLECTORS ONLY. MAY BE REQUIRED ON LOCAL STREETS AS DETERMINED BY THE PUBLIC WORKS DIRECTOR.
6. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.



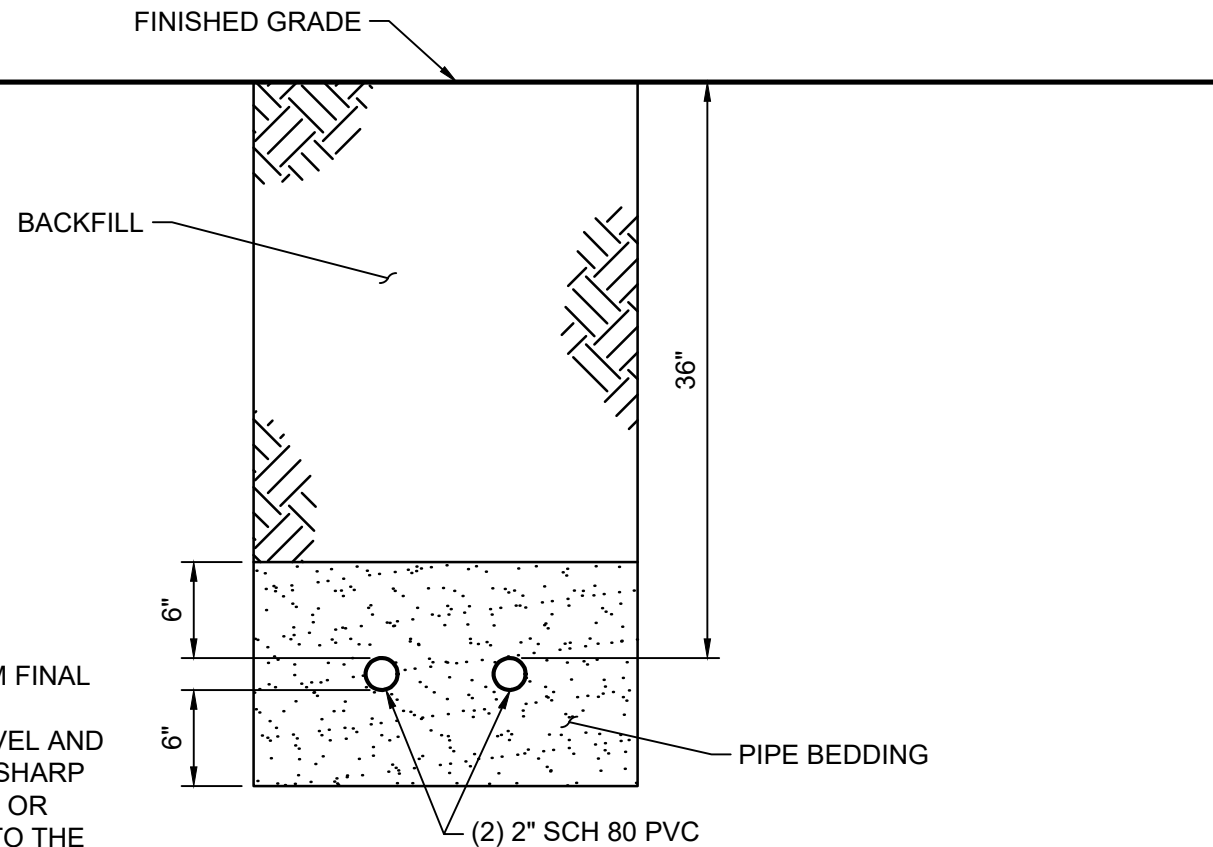
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

INTERSECTION CONDUIT DETAIL

STANDARD PLAN
110.78

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. TRENCH DEPTH SPECIFIED FROM FINAL GRADE.
2. TRENCH BOTTOMS SHALL BE LEVEL AND WELL TAMPED EARTH WITHOUT SHARP RISES AND DROPS. ROCK SPURS OR RIDGES SHALL NOT PROJECT INTO THE TRENCH.
3. PIPE BEDDING SHALL PASS THROUGH A 3/4" SIEVE FRAME AND BE PLACED ABOVE AND BELOW THE CONDUIT IN 6" LIFTS.
4. BACKFILL SHALL BE FREE OF STONE OR CLUMPS EXCEEDING 3" AND FREE FROM SOD, FROZEN EARTH, ORGANIC MATERIALS AND CONSTRUCTION DEBRIS.
5. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

INTERSECTION CONDUIT
SECTION DETAIL

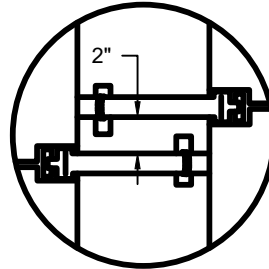
STANDARD PLAN
110.79

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

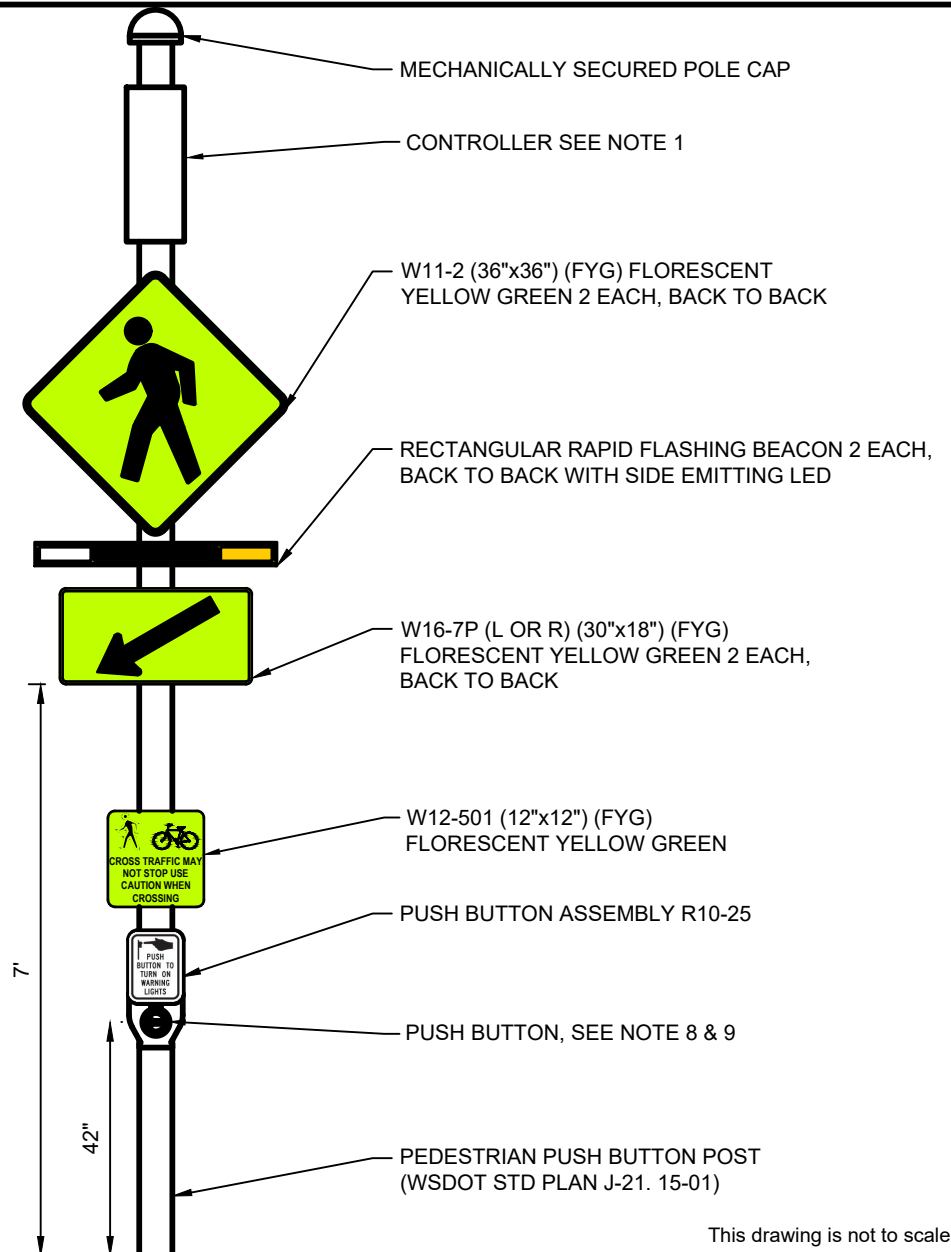


NOTES:

1. THE CONTROLLER ENCLOSURE AND CABINETS SHALL MEET MANUFACTURE SPECIFICATIONS.
2. THE LIGHTBAR HOUSING SHALL HAVE THE APPROXIMATE DIMENSIONS: 24" L x 1.5" D x 4.5" H.
3. LED INDICATORS SHALL BE RATED TO MIL-STD-810F, METHOD 506.4 FOR INGRESS PROTECTION.
4. ALL RRFB'S IN THE SYSTEM SHALL INITIATE ACTIVATION SIMULTANEOUSLY WITHIN 150 MS OF ACTUATION.
5. REFER WSDOT STD PLAN J-21.10 FOR ROUND FOUNDATION DETAIL AND SLIP BASE
6. ALL MOUNTING BRACKETS SHALL BE SEPARATED BY 2" MIN CLEAR SPACE
7. RRFB'S SHALL BE MANUFACTURED BY CARMANAH OR TSSCO
8. SOLAR POWERED RRFB'S SHALL MEET THE FOLLOWING REQUIREMENTS
 - POLARA BULLDOG PUSHBUTTON
 - BATTERY SHALL BE A MINIMUM 48 AHR
 - SOLAR PANEL SHALL BE A MINIMUM 50 WATT, POST TOP OR SIDE MOUNTED
9. HARD-WIRED RRFB'S SHALL HAVE AN AUDIBLE APS PUSHBUTTON
10. SEE WSDOT STD PLAN J-28.70 FOR WIRING DETAILS NOT SHOWN.



SEE NOTE 6



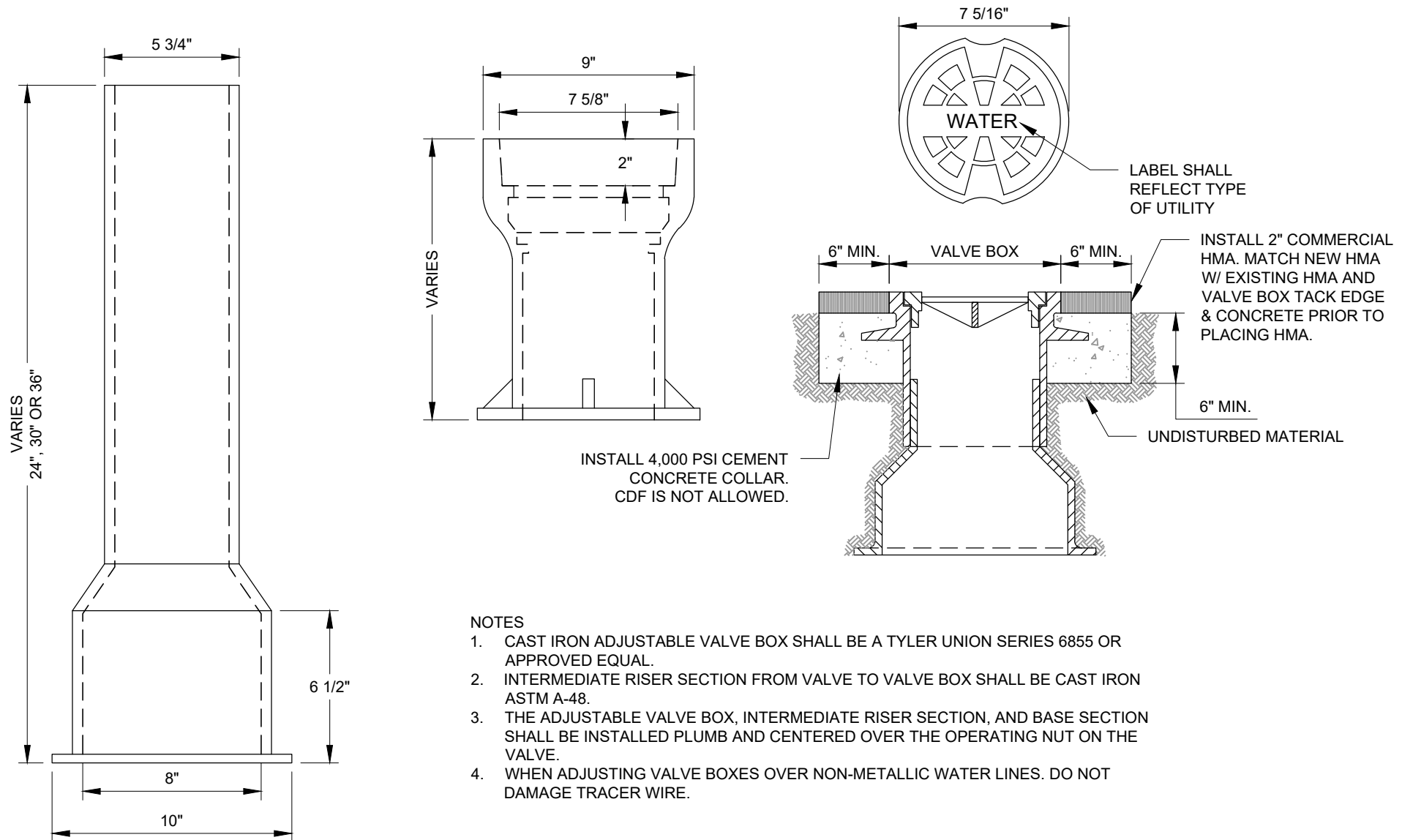
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

RECTANGULAR RAPID
FLASHING BEACON

STANDARD PLAN
110.80

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



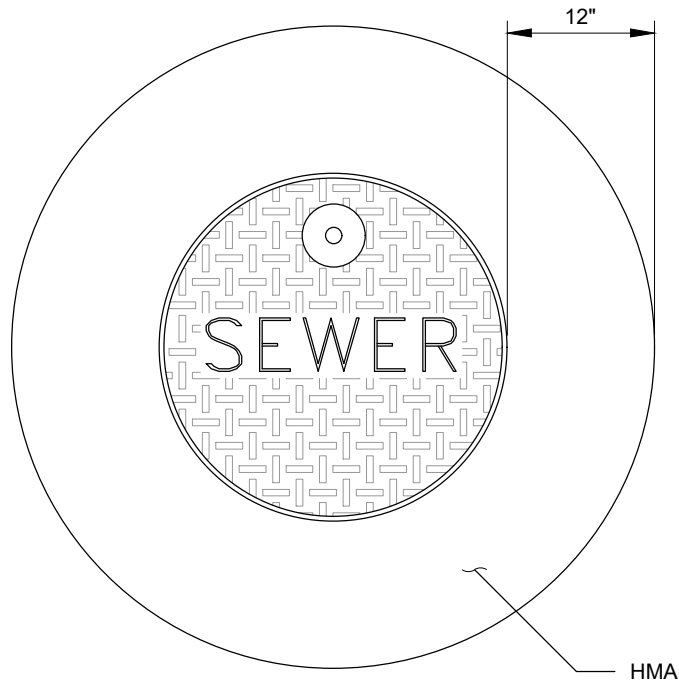
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 12/12/23

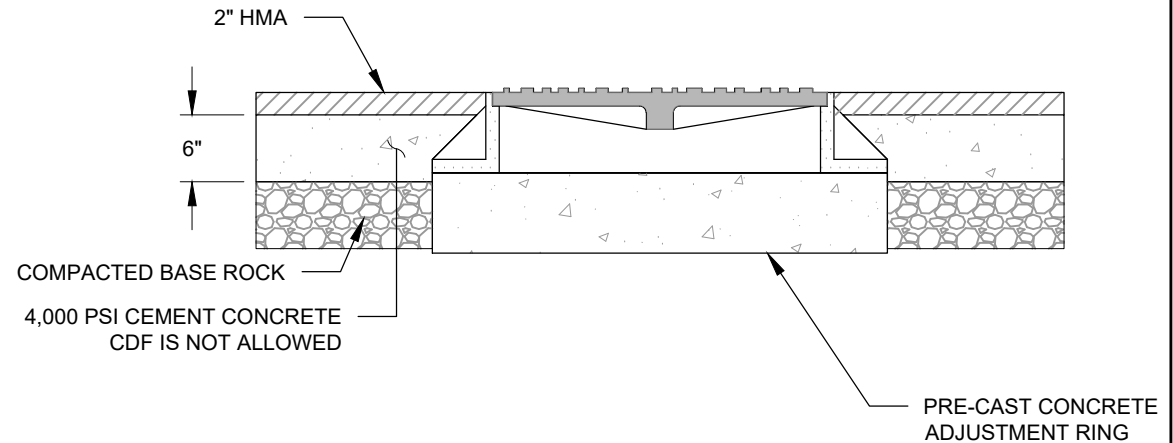
VALVE BOX COLLAR PLACEMENT
DETAIL

STANDARD PLAN
210.03

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



PLAN



SECTION

NOTES:

1. HOT MIX ASPHALT PLACED AT THE TIME THE ROAD IS PAVED, SHALL BE USED AROUND MANHOLE RINGS IN PLACE OF CONCRETE ONLY IN CASE OF NEW ROAD CONSTRUCTION OR COMPLETE ROAD RESURFACING. IN THE EVENT HOT MIX ASPHALT CANNOT BE PROPERLY PLACED, A CONCRETE COLLAR SHALL BE PLACED AFTER THE MAIN PAVING IS COMPLETE.
2. CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS. IN UNIMPROVED OR UNPAVED AREAS INSTALL THE CONCRETE COLLAR TO A MIN. 4" DEPTH OR THE DEPTH OF THE ADJUSTMENT RINGS, WHICHEVER IS GREATER.

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 12/12/23

MANHOLE COLLAR PLACEMENT
DETAIL

STANDARD PLAN
310.07

STANDARD PLAN 310.00

SANITARY SEWER NOTES

1. ALL MANHOLES AND CURB INLETS SHALL BE PRE-CAST CONCRETE UNITS UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
2. MANHOLE PIPE CONNECTORS SHALL BE CAPABLE OF A 10⁰ DEFLECTION IN ANY ONE DIRECTION AND SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER. SANITARY MANHOLES WITH PVC PIPE CONNECTIONS SHALL USE THE A-LOK PIPE CONNECTOR, MANUFACTURED BY A-LOK PRODUCTS OR PSX, MANUFACTURED BY PRESS-SEAL GASKETS CORP. OR APPROVED EQUAL. ALL OTHER CONNECTION SYSTEMS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
3. ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS, AT PIPE CONNECTIONS, AND JOINTS, SHALL BE FILLED OR REPAIRED IN THE FIELD.
4. MANHOLES SHALL BE SET A MINIMUM OF 8 INCHES AND NOT MORE THAN 12 INCHES BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH RISER RINGS AS REQUIRED.
5. MANHOLE CONE SECTION SHALL BE ECCENTRIC.
6. IN MANUFACTURING THE MANHOLES, THE CONTRACTOR SHALL REVIEW THE DETAILS AS OUTLINED IN ANY TECHNICAL SPECIFICATIONS AND/OR PLANS, WHICH SHOW THE SEWER PIPE SLOPE CALCULATED TO THE CENTERLINE OF THE MANHOLE AND MANUFACTURE/INSTALL ACCORDINGLY.
7. MASTIC JOINT SEAL SHALL BE PLACED AT EVERY JOINT BETWEEN BARREL SECTIONS, RISER SECTIONS, AND THE CAST IRON TOP.
8. MANHOLE RING & COVER SHALL BE INLAND FOUNDRY COMPANY INC. #817 WITH A SOLID COVER LABELED "SEWER" OR APPROVED EQUAL.
9. CAST IRON MANHOLE RING AND COVER USED WITH THE SHALLOW TYPE MANHOLE DISPLAYED IN STANDARD PLAN 310.03 SHALL BE INLAND FOUNDRY COMPANY INC. #723-1 OR #723-2 WITH A SOLID 48" MAIN COVER AND A SOLID 24" LIMITED ACCESS COVER OR AN APPROVED EQUAL.
10. WHEN USING THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.02, A MINIMUM SEPARATION BETWEEN THE FLAT TOP AND THE INSIDE BOTTOM SURFACE SHALL BE NO LESS THAN 2'-0". IN THE EVENT THE MINIMUM SEPARATION CANNOT BE MAINTAINED, THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.03 SHALL BE USED.
11. PRE-CAST MANHOLE BASE SHALL BE NO LESS THAN 24" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE FLOW CHANNEL AND BASE ROCK.
12. SANITARY BASE SECTIONS SHALL BE PRE-CAST, CUSTOM UNITS FITTED WITH "A-LOK", PSX GASKETS (OR APPROVED EQUAL) AROUND ALL ATTACHED PIPE SECTIONS. WHERE A "KNOCK OUT" VS. A "PRE-CAST" HOLE MUST BE PLACED, A SAND COLLAR OR AN APPROVED EQUAL SHALL BE USED FOR PIPE CONNECTION. THE SAND COLLAR SHALL BE PROPERLY SEALED INSIDE AND OUTSIDE WITH NON-SHRINK, QUICK SET GROUT.

13. BARREL SECTIONS SHALL BE NO LESS THAN 12" IN HEIGHT. BARREL SECTIONS FOR THE 310.03 SHALLOW TYPE MANHOLE SHALL BE NO LESS THAN 12" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE USED. THE BARREL SECTION FOR THE 310.02 SHALLOW TYPE MANHOLE SHALL BE NO LESS THE 24" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE USED.
14. RISER RINGS VARY IN HEIGHT FROM 1" TO 6". ANY NEED FOR ADJUSTMENT OVER 12" AT THE TOP SHOULD BE SATISFIED BY USING A 12" BARREL SECTION UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR. A MINIMUM 2" OF RISERS SHALL BE USED ON ALL MANHOLES. USE THE LEAST NUMBER OF RISER RINGS TO ACHIEVE THE REQUIRED RISE. RISER RINGS SHALL BE PRE-CAST 3000 PSI CONCRETE OR HDPE (HIGH DENSITY POLYETHYLENE) MANHOLE ADJUSTING RINGS. ALL RISERS SHALL HAVE BUTYL OR MASTIC SEALER APPLIED TO BOTH THE TOP AND BOTTOM SURFACES. RISER STACKS SHALL BE WATER TIGHT.
15. MANHOLE STEPS SHALL BE LANE BRAND, POLYPROPYLENE MANHOLE STEPS MODEL NO. P-13938E OR AN APPROVED EQUAL.
16. ALL SANITARY SEWER PIPE SHALL BE FULLY BEDDED WITH A MINIMUM OF 4-IN. UNDER THE PIPE AND A MINIMUM OF 6-IN. OVER ANY PIPE. BEDDING MATERIALS SHALL BE CRUSHED ROCK AS PER THE STANDARD SPECIFICATION. ALL OTHER BEDDING MATERIALS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
17. PRE-CAST MANHOLE BASES SHALL BE SET LEVEL ON A MINIMUM OF 6-IN. OF WELL-COMPACTED CRUSHED AGGREGATE. SANITARY SEWER PIPE AND MANHOLES SUBJECTED TO GROUNDWATER SHALL BE PLACED ON 4-IN. OF CRUSHED ROCK BEDDING OVER 12" OF CLASS B FOUNDATION ROCK SEPARATED BY FILTER FABRIC AS PER STANDARD SPECIFICATION 9-03.17 AND CITY STANDARD PLAN 310, SECTIONS 16 & 17.
18. THE BEDDING UNDER SANITARY SEWER PIPE AND MANHOLES SHALL BE COMPACTED PRIOR TO PIPE AND MANHOLE PLACEMENT TO PROVIDE UNIFORM SUPPORT ALONG THE ENTIRE LENGTH OF THE PIPE AND UNDER MANHOLES. ONLY PIPE BEDDING MATERIAL SHALL BE IN CONTACT WITH SANITARY SEWER PIPE OR MANHOLES. ANY DITCH RUN GRAVEL, ASPHALT OR CONCRETE CHUNKS OR SIMILAR MATERIALS SHALL BE REMOVED.
19. ELEVATIONS AND DISTANCES BETWEEN ELEVATIONS SHALL BE PROVIDED TO THE CITY BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER AFTER BEDDING PIPE ON COMPACTED BEDDING, PRIOR TO BACKFILL, AT A MINIMUM OF EVERY 100' AND AT MANHOLE TERMINATIONS. SEWER PIPE GRADE SHALL CORRESPOND TO APPROVED PLANS AND IN NO CASE SHALL BE LESS THAN 0.4% WITHOUT BELLIES OR RISES.
20. THE USE OF NATIVE BACKFILL MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR, GRAVEL BACKFILL PER THE STANDARD SPECIFICATIONS 9-03.12(3) OR OTHER GRANULAR MATERIAL APPROVED BY THE PUBLIC WORKS DIRECTOR SHALL BE USED.
21. MANHOLE BARREL SECTIONS AND RISER RINGS SHALL BE SEALED WATERTIGHT WITH MASTIC. IN ADDITION, ALL SANITARY MANHOLES SUBJECTED TO GROUNDWATER SHALL BE SEALED WITH CITY-APPROVED SEALANT ON THE EXTERIOR FROM THE BASE TO 3'

ABOVE THE SEASONAL HIGH GROUNDWATER LEVEL AND SHALL BE VACUUM TESTED PER ASTM C-1244 WHEN SEASONAL HIGH GROUNDWATER IS OVER 3' HIGH FROM THE BASE.

22. ALL SANITARY SEWER PIPE SHALL BE TESTED BY APPLICATION OF AN AIR PRESSURE TEST IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (7-17.3(2)E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IN THE PIPE AND MANHOLES IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED TO OBSERVE TV INSPECTION (PERFORMED BY CONTRACTOR OR THEIR ASSIGNEE) OF ALL LINES 8-IN. AND LARGER. ANY WORK FAILING AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS.
23. ALL TV INSPECTIONS SHALL INCLUDE A BALL OR EQUIVALENT DEVICE ATTACHED TO THE CAMERA TO SHOW ANY "BELLY" IN THE LINE WHICH MAY EXCEED 3/4-INCH IN DEPTH. INSPECTION SHALL BE RECORDED ON DVD AND VIEWABLE THRU A WINDOWS MEDIA PLAYER. VIDEO MUST BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
24. LATERAL SIDE SEWER SERVICES MUST BE MARKED WITH A NO. 12 SOLID COPPER LOCATOR WIRE AND THE ENDS, MARKED WITH A BURIED STEEL FENCE POST EXTENDED ABOVE THE GROUND AT LEAST 6-IN. IN URBAN AREAS AND 4 FT. IN RURAL AREAS. THE LOCATOR WIRE SHALL BE TIED AROUND THE MAIN LINE AND EXTENDED ALONG THE SIDE SEWER AND UP THE MARKER POST.
25. SEWER SERVICE LATERALS SHALL BE LAID BETWEEN MINIMUM AND MAXIMUM GRADES AS DETERMINED BY THE BUILDING OFFICIAL.
26. SEWER SERVICE LATERALS SHALL HAVE A MIN. OF ONE CLEANOUT A MIN. OF 12" BEHIND THE BACK OF SIDEWALK.

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

STANDARD PLAN 410.00

STORMWATER NOTES

1. THE CONTRACTOR SHALL PREVENT DISCHARGE OF CONSTRUCTION STORMWATER AND SEDIMENTATION FROM LEAVING THE SITE USING BEST MANAGEMENT PRACTICES TO INCLUDE ONE OR MORE OF THE FOLLOWING AS NECESSARY:
 - A. PRESERVE VEGETATION AND MARK CLEARING LIMITS. PROTECT NATURAL VEGETATION AND TREES. USE VEGETATED BUFFERS. BEFORE GRADING, MARK CLEARING LIMITS AND SENSITIVE AREAS FOR PROTECTION.
 - B. ESTABLISH CONSTRUCTION ACCESS REDUCE VEHICLE ACCESS POINTS AND STABILIZE ENTRANCE WITH CRUSHED ROCK OR SIMILAR MATERIAL. MINIMIZE MUD AND DIRT TRACKED ONTO PAVED ROADS. CLEAN ROAD SURFACES ON A REGULAR BASIS. SHOVEL AND SWEEP MUD OFF ROADWAY.
 - C. CONTROL FLOW RATES. PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM FROM THE SITE FROM IMPACTS OF STORMWATER RUNOFF. REDUCING FLOW AND PREVENTING EROSION ARE TWO WAYS TO DO THIS.
 - D. INSTALL SEDIMENT CONTROLS. PASS STORMWATER THROUGH A SEDIMENT POND, SEDIMENT TRAP, FILTER OR OTHER EQUIVALENT MEASURE BEFORE IT LEAVES THE SITE OR ENTERS DRAIN INLETS. CONSTRUCT SEDIMENT PONDS, TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND SILT FENCES AS FIRST STEP IN GRADING.
 - E. STABILIZE SOILS. SOIL STABILIZATION INCLUDES TEMPORARY AND PERMANENT SEEDING, MULCHING, GEOTEXTILES, EROSION CONTROL FABRICS, AND SOD STABILIZATION.
 - F. PROTECT SLOPES. DIVERT RUNOFF AROUND SLOPES AND DISTURBED AREAS WITH PIPE SLOPE DRAINS. DESIGN AND CONSTRUCT CUT AND FILL SLOPES TO MINIMIZE EROSION. METHODS MAY INCLUDE TERRACING AND DIVERSIONS AND REDUCING STEEPNESS.
 - G. PROTECT DRAIN INLETS. PROTECT ALL OPERABLE STORM DRAIN INLETS FROM SEDIMENT. CLEAN AND REMOVE SEDIMENT FROM INLET PROTECTION DEVICES WHEN THEY FILL TO 1/3 OF THEIR CAPACITY.
 - H. STABILIZE CHANNELS AND OUTLETS STABILIZE DRAIN OUTLETS, ADJACENT STREAM BANKS, SLOPES AND CHANNELS WITH ARMORING SUCH AS ROCKS OR GRAVEL.
 - I. CONTROL POLLUTANTS. PREVENT CHEMICALS AND OTHER POLLUTANTS FROM CONTACT WITH STORMWATER. HANDLE AND DISPOSE OF POLLUTANTS PROPERLY. TYPICAL POLLUTANTS INCLUDE: WASTE MATERIALS, CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, OIL, DEMOLITION DEBRIS, AND BATTERIES. PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY ALKALINE SOURCES SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, AND WATER USED TO WASH AND CURE CONCRETE. OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT OTHER THAN CO₂ TO ADJUST PH.
 - J. CONTROL DE-WATERING. CAREFULLY CONTROL DE-WATERING. IF YOU HAVE MUDDY OR CONTAMINATED DE-WATERING WATER, THEN TREAT IT SEPARATELY FROM OTHER STORMWATER RUNOFF.
 - K. MAINTAIN BMP'S. REGULARLY INSPECT, MAINTAIN AND REPAIR ALL BMPS. INSPECT EROSION AND SEDIMENT CONTROL BMPS AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY DISCHARGE FROM THE SITE. REMOVE ALL TEMPORARY EROSION AND SEDIMENT BMPS WITHIN 30 DAYS OF FINAL SITE STABILIZATION. REMOVE OR STABILIZE ON-SITE TRAPPED SEDIMENT.

2. THE ENGINEER (OR HIS AGENT) CERTIFYING STORMWATER FACILITIES SHALL BE PROVIDED ACCESS TO STORMWATER FACILITIES FOR OBSERVATION AT ANY TIME DURING CONSTRUCTION.
3. INFILTRATION FACILITIES SHALL BE CONSTRUCTED WITHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON INFILTRATION SURFACE. ANY COMPACTION AFTER INFILTRATION FACILITIES ARE FORMED SHALL REQUIRE INFILTRATION SURFACE TO BE SCARIFIED TO A DEPTH OF 12" TO ALLEVIATE COMPACTION OF THE INFILTRATION SURFACE.
4. THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT (CGP) IN ACCORDANCE WITH THE LATEST REGULATION REQUIREMENT PER WASHINGTON STATE DEPARTMENT OF ECOLOGY. THIS INCLUDES USING BEST MANAGEMENT PRACTICES TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE BMP'S ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
5. ALL NEW DRYWELLS AND/OR INFILTRATION TRENCHES SHALL BE REGISTERED USING CITY-PROVIDED IDENTIFICATION NUMBER/LABEL WITH THE UNDERGROUND INJECTION CONTROL PROGRAM AT DEPARTMENT OF ECOLOGY PRIOR TO USE (UIC PROGRAM, DEPARTMENT OF ECOLOGY, P.O. BOX 47600, OLYMPIA, WA 98504-7600.
6. THE PUBLIC WORKS DIRECTOR MAY REQUIRE THE APPLICATION OF AN AIR PRESSURE TEST ON ANY STORM SEWER PIPES PER STANDARD SPECIFICATIONS (7-04.3(1) E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED TO OBSERVE TV INSPECTION (PERFORMED BY CONTRACTOR OR THEIR ASSIGNEE) OF ALL STORM SEWER LINES. ANY WORK FAILING AN AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS.
7. ALL TV INSPECTIONS SHALL INCLUDE A BALL OR EQUIVALENT DEVICE ATTACHED TO THE CAMERA TO SHOW ANY "BELLY" IN THE LINE WHICH MAY EXCEED 3/4-INCH IN DEPTH. INSPECTION SHALL BE RECORDED ON DVD AND VIEWABLE THRU A WINDOWS MEDIA PLAYER. VIDEO MUST BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
8. ALL MANHOLES AND CURB INLETS SHALL BE PRE-CAST CONCRETE UNITS UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
9. MANHOLE PIPE CONNECTORS SHALL BE CAPABLE OF A 10⁰ DEFLECTION IN ANY ONE DIRECTION AND SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER. ALL STORM SEWER MANHOLES WITH PVC PIPE CONNECTIONS) SHALL USE THE A-LOK PIPE CONNECTOR, MANUFACTURED BY A-LOK PRODUCTS OR PSX, MANUFACTURED BY PRESS-SEAL GASKETS CORP. OR APPROVED EQUAL. ALL OTHER CONNECTION SYSTEMS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE. STORM SEWER MANHOLES WITH HDPE PIPE CONNECTIONS MAY BE GROUTED (A-LOK NOT REQUIRED).
10. ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS, AT PIPE CONNECTIONS, AND JOINTS, SHALL BE FILLED OR REPAIRED IN THE FIELD.

11. MANHOLES SHALL BE SET A MINIMUM OF 8 INCHES AND NOT MORE THAN 12 INCHES BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH RISER RINGS AS REQUIRED.
12. MANHOLE CONE SECTION SHALL BE ECCENTRIC.
13. MASTIC JOINT SEAL SHALL BE PLACED AT EVERY JOINT BETWEEN BARREL SECTIONS, RISER SECTIONS, AND THE CAST IRON TOP.
14. MANHOLE RING & COVER SHALL BE INLAND FOUNDRY COMPANY INC. #817 WITH A SOLID COVER LABELED "STORM" OR APPROVED EQUAL.
15. RISER RINGS VARY IN HEIGHT FROM 1" TO 6". ANY NEED FOR ADJUSTMENT OVER 12" AT THE TOP SHOULD BE SATISFIED BY USING A 12" BARREL SECTION UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR. A MINIMUM 2" OF RISERS SHALL BE USED ON ALL MANHOLES. USE THE LEAST NUMBER OF RISER RINGS TO ACHIEVE THE REQUIRED RISE. RISER RINGS SHALL BE PRE-CAST 3000 PSI CONCRETE OR HDPE (HIGH DENSITY POLYETHYLENE) MANHOLE ADJUSTING RINGS. ALL RISERS SHALL HAVE BUTYL OR MASTIC SEALER APPLIED TO BOTH THE TOP AND BOTTOM SURFACES. RISER STACKS SHALL BE WATER TIGHT.
16. MANHOLE STEPS SHALL BE LANE BRAND, POLYPROPYLENE MANHOLE STEPS MODEL NO. P-13938E OR AN APPROVED EQUAL.
17. ALL STORMWATER SEWER PIPE SHALL BE FULLY BEDDED WITH A MINIMUM OF 4-IN. UNDER THE PIPE AND A MINIMUM OF 6-IN. OVER ANY PIPE. BEDDING MATERIALS SHALL BE CRUSHED ROCK AS PER THE STANDARD SPECIFICATION. ALL OTHER BEDDING MATERIALS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
18. PRE-CAST MANHOLE BASES SHALL BE SET LEVEL ON A MINIMUM OF 6-IN. OF WELL-COMPACTED CRUSHED AGGREGATE. STORMWATER SEWER PIPE AND MANHOLES SUBJECTED TO GROUNDWATER SHALL BE PLACED ON 4-IN. OF CRUSHED ROCK BEDDING OVER 12" OF CLASS B FOUNDATION ROCK SEPARATED BY FILTER FABRIC AS PER STANDARD SPECIFICATION 9-03.17.
19. THE BEDDING UNDER STORMWATER SEWER PIPE AND MANHOLES SHALL BE COMPACTED PRIOR TO PIPE AND MANHOLE PLACEMENT TO PROVIDE UNIFORM SUPPORT ALONG THE ENTIRE LENGTH OF THE PIPE AND UNDER MANHOLES. ONLY PIPE BEDDING MATERIAL SHALL BE IN CONTACT WITH STORMWATER SEWER PIPE OR MANHOLES. ANY DITCH RUN GRAVEL, ASPHALT OR CONCRETE CHUNKS OR SIMILAR MATERIALS SHALL BE REMOVED.
20. ELEVATIONS AND DISTANCES BETWEEN ELEVATIONS SHALL BE PROVIDED TO THE CITY BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER AFTER BEDDING PIPE ON COMPACTED BEDDING, PRIOR TO BACKFILL, AT A MINIMUM OF EVERY 100' AND AT MANHOLE TERMINATIONS. STORM PIPE GRADE SHALL CORRESPOND TO APPROVED PLANS AND IN NO CASE SHALL BE LESS THAN 0.4% WITHOUT BELLIES OR RISES.
21. THE USE OF NATIVE BACKFILL MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL

REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR, GRAVEL BACKFILL PER THE STANDARD SPECIFICATIONS 9-03.12(3) OR OTHER GRANULAR MATERIAL APPROVED BY THE PUBLIC WORKS DIRECTOR SHALL BE USED.

22. MANHOLE BARREL SECTIONS AND RISER RINGS SHALL BE SEALED WATERTIGHT WITH MASTIC. IN ADDITION, ALL MANHOLES SUBJECTED TO GROUNDWATER SHALL BE SEALED WITH CITY-APPROVED SEALANT ON THE EXTERIOR FROM THE BASE TO 3' ABOVE THE SEASONAL HIGH GROUNDWATER LEVEL AND SHALL BE VACUUM TESTED PER ASTM C-1244 WHEN SEASONAL HIGH GROUNDWATER IS OVER 3' HIGH FROM THE BASE.
23. MINIMUM DIAMETER OF STORMWATER PIPES SHALL BE 10". LARGER SIZES MAY BE REQUIRED.
24. PRE-CAST CURB INLET BOX (CATCH BASIN) SHALL BE NO LESS THAN 48" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE INSIDE BASE AND BASE ROCK. CURB INLET BOXES SHALL BE PRE-CAST CUSTOM UNITS CONSTRUCTED WITH A REINFORCEMENT CAGE AND PUNCH OUT SECTIONS NO LESS THAN 2" THICK ON ALL FOUR VERTICAL SIDES AS INDICATED IN STANDARD PLAN 410.02. INSTALLATION SHALL BE PER STANDARD PLAN 410.05.
25. CURB INLET BOXES (CATCHBASINS) WITH PVC LINE CONNECTIONS SHALL USE SAND COLLARS WITH GROUT SEAL ("A-LOK" ALSO ACCEPTABLE). SIMILAR TRANSITIONS MAY BE USED WITH PUBLIC WORKS DIRECTOR APPROVAL. HDPE PIPE CONNECTIONS TO CURB INLET BOXES MAY BE GROUTED (SAND COLLARS NOT REQUIRED).
26. THE CAST IRON CURB INLET GRATE SHALL BE UNI-DIRECTIONAL OR BI-DIRECTIONAL GRATES ONLY. INLAND FOUNDRY COMPANY #571-3 OR #571-5 OR AN APPROVED EQUAL.
27. THE DIRECTIONAL CONFIGURATION OF THE CURB INLET GRATE SHALL BE DETERMINED AT THE TIME OF DESIGN. CLOSE ATTENTION SHOULD BE PAID TO THIS DETAIL WHEN ORDERING THE GRATE FROM THE MANUFACTURER. REFER TO STANDARD PLAN 410.01.
28. CURB INLET GRATES SHALL NOT BE PLACED WITHIN ADA ACCESS ROUTES AND SHALL NOT UTILIZE A HOOD WHEN LOCATED ADJACENT TO A CURB RAMP.
29. BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE SHALL BE IN PLACE AND UTILIZED DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMPS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. A STOP WORK NOTICE MAY BE ISSUED FOR NON-COMPLIANCE WITH THIS REQUIREMENT UNTIL THE ISSUE IS RESOLVED.

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.



City of College Place

Standard Specifications & Drawings

| Update Approved by City Council: 04/10/23

Contact Information

City Contacts:

City Engineer	(509) 394-8525
Public Works Director	(509) 394-8526

Utility Contacts:

Call before you Dig (One Call)	(800) 424-5555 or 811
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FORWARD

This document provides engineering specifications and standards for the City of College Place's Public Works Division, developers, contractors and ~~home-owners~~homeowners engaged in construction or repairs within the City of College Place. The City requires all persons engaged in construction or repair efforts to abide by these specifications.

These specifications and standards are supplemented by additional standards adopted by the City of College Place City Council including Street Cut Restoration Standards.

In general, site development projects and plats submitted for approval by the City of College Place go through a two-step process. Project review begins with the submission of a preliminary plat or site plan to the Planning Department that provides enough information to allow the City to determine conditions of development. This review runs concurrently with any required State Environmental Policy Act (SEPA) processes. Supporting studies such as a stormwater design and a traffic impact analysis are also generally required at this stage. Once the preliminary plat or site plan is approved, construction plans are prepared.

Both site plans and construction plans need to be consistent with all City specifications and standards unless otherwise approved by the City Engineer.

There are a number of reminders to keep in mind:

- 1. Standard Specifications.** These specifications are College Places' uniform minimum standards. If there is a different type of material or method desired which will result in a similar outcome, the Public Works Director may grant a variance. Any request for variance shall be in writing and submitted to the Public Works Director for consideration.
- 2. Variances from Plans.** No variance from approved plans shall be allowed without the prior petitioning by the person(s) requesting the variance and the written approval of the Public Works Director. Variances may require City Council approval.
- 3. Inspections.** To ensure standard practices, inspection of work conducted within a public street or utility right of way shall be required in addition to all necessary permits. Failure to obtain a proper permit or arrange for timely inspections may result in rejection and removal of all or part of the work.

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City of College Place

Standard Specifications

000 GENERAL DEVELOPMENT SPECIFICATIONS

The following general requirements apply to developments in general:

*****REFER TO STANDARD PLAN No. 010.00*****

000.10 EXTENSION OF UTILITIES AND IMPROVEMENTS

Water, sewer and storm water facilities shall be extended to the furthest lot line on all streets within new subdivisions.

000.20 HALF STREET AND EXTENSION IMPROVEMENTS

Half street improvements (including sidewalks, planting strips, storm facilities, etc.) along with any additional street improvements (either side or supporting extensions leading to the improvements) deemed necessary to safely and effectively serve the subdivision or existing uses are required for those portions of a sub-division located exclusively on one side of a street. Full street improvements shall be required for all other streets.

000.30 PRIVATE FACILITY ADA CERTIFICATION

With the exception of stand-alone single family homes and duplexes, a professional engineer licensed to practice in the State of Washington shall certify (stamped) that sidewalks, parking lots and access facilities are compliant with the American Disabilities Act (ADA).

100 STREET SPECIFICATIONS

100.01 GENERAL STREET SPECIFICATIONS

This document is intended to provide use and construction standards for City streets based on classification. The purpose is to provide a description of the types of traffic and transit use on each type of street and guide how future street improvement projects and land use development relate to each classification. The goal is to provide efficient movement of people and goods while preserving and protecting the quality of life for all residents in the City of College Place.

Classifications are historically developed through Federal and State transportation agencies, which have financed, developed and guided transportation in the State of Washington. These agencies do not dictate precise ~~standards, but~~ standards but have general guidelines by which they operate and disburse transportation funds. There is substantial latitude for the individual Cities and agencies to fine tune standards to fit their individual needs. This document establishes these standards for the City of College Place.

The classifications include statements outlining the functional purpose, design and operational aspects along with the types of land use and development to be encouraged along the various street types.

Additionally, a number of related street section elements shall be included in each street section per College Place Municipal Code (CPMC) Section 14.90.040 to include:

- Sidewalks in every residential, industrial or commercial subdivision, and business park;
- A minimum five-foot wide landscape strip(s) on every side of a lot that abuts an arterial, collector, or local street in a residential subdivision; and
- Bike lanes in residential subdivisions on all collectors and arterial streets.

******REFER TO STANDARD PLAN No. 110.00******

100.02 CLASSIFICATION, DESCRIPTION AND DETAILS

REGIONAL CORRIDOR

Functional Purpose

A Regional Corridor is intended to provide for inter-regional and inter-community transportation. Examples are SR-125 and SR-12. A Regional Corridor should provide the highest possible capacity and express movement of longer distance trips.

Land Use and Development

Private and public developments of a regional significance should include shopping centers and major centers of employment. Developments of this significance should be encouraged to locate adjacent to Regional Corridors to reduce traffic on adjoining areas and streets. Automobile oriented commercial activities, which attract trips from throughout the cities, and areas should be encouraged to locate along a Regional Corridor.

Design Considerations and Traffic Operations

Design and traffic operations should serve through movement. A grade separation should be used whenever possible at the intersection between a Regional Corridor and another Regional Corridor or a Principal or Minor Arterial to facilitate through traffic on the Regional Corridor. Intersections between a Regional Corridor and a Principal or Minor Arterial should provide control of all turning movements. Signalization of the intersection should be a priority with respect to traffic warrants. Access to adjoining land uses should be limited to minimize disruption of traffic movement on the Regional Corridor. Adjacent land use should provide off-street parking with no curbside parking. Wherever possible, a buss pullout bay, or a bus lane should be provided along a Regional corridor to minimize disruption of traffic flow. The Regional Corridor should support inter-regional bus routes and high-quality local service.

Right-of-way, Template and Structure

Minimum right-of-way should be 100-ft. Lane width should be 12-ft. minimum with 5 lanes minimum. Four travel lanes and a center turn lane. Minimum pavement thickness shall be 4-in. with a base of 16-in. of crushed aggregate or the equivalent thereof. Sidewalks and curb and gutter are typically not indicated. These roads are typically state highways in our region under the jurisdiction of the State Department of Transportation, Region V.

PRINCIPAL ARTERIAL

Functional Purpose

A Principal Arterial is intended to serve as the major route for the movement of traffic within the City and for the Connection with neighboring cities. Examples are College Avenue and West Rose Street. A Principal Arterial should serve the major activity center of the City. Through traffic with no trip ends within the City should be encouraged to use Principal Arterials.

Land Use and Development

Major office or commercial developments, which attract trips from various neighborhoods throughout the City, should be encouraged to locate along Principal Arterials. Auto-oriented commercial should be encouraged to locate along Principal Arterials. High-density residential developments should be encouraged to locate along Principal Arterials to maximize usage of transit systems.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to traffic having at least one trip end within the City, rather than to through traffic. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Principal Arterials should provide all desired turning movement signals including an exclusive left-turn signal if warrants are met. A Principal Arterial should serve as an inter-city transit route and a major local transit route within the City. Wherever possible, a bus pullout bay, or a bus lane should be provided to minimize disruption of traffic flow. Transit oriented land use development located along a Principal Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. High priority should be given to underground placement of utility lines along all Principal Arterials. On-street parking is restricted ~~and in most cases~~ and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Right-of-way should be 111-ft. Lane width should be 12-ft minimum with 5 vehicle travel lanes. Four travel lanes and a center turn lane. The center turn lane may be ~~omitted~~ omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in. of crushed aggregate or the equivalent thereof.

******REFER TO STANDARD PLAN No. 110.00, 110.01******

MINOR ARTERIAL

Functional Purpose

A Minor Arterial is intended to provide concentrated access to neighborhood activity centers and to serve trips between neighborhoods. Examples are Larch Avenue and East 12th Street. A Minor Arterial should serve as a distributor of traffic from a Principal Arterial to Collector and Local streets. Through trips should not be encouraged on a Minor Arterial.

Land Use and Development

Neighborhood oriented commercial developments are encouraged to locate along a Minor Arterial as allowed by the Zoning Code. The density of the residential developments along a Minor Arterial should be encouraged to vary directly with the capacity of transit service available and as governed by Zoning Code.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to local traffic rather than to through traffic. A Minor Arterial should not be designated as a truck route. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Minor Arterials should be signaled as warranted to facilitate the safe movement of traffic along each street as well as turning movements between such streets. Special care should be taken in the design of a Minor Arterial and intersections to provide safe and frequent pedestrian crossing opportunities. Transit oriented land use development located along a Minor Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. A Minor Arterial should serve as a local transit route. On-street parking is restricted ~~and in most cases~~and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Minimum right-of-way should be 78 or 87-ft depending on whether 3 or 4 lanes as needed. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Capacity requirements will dictate whether all four lanes are needed. Lane widths should be a minimum of 11-ft. The center turn lane may be ~~omitted~~omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness of 4-in and a minimum base of 10-in of crushed aggregate or the equivalent thereof.

******REFER TO STANDARD PLAN No. 110.00, 110.02 & 110.03******

COLLECTOR

Functional Purpose

A Collector Street is to serve trips for the neighborhood. Through trips with no trip ends within the neighborhood should be discouraged on a Collector street. Examples are 4th Street and Date Avenue. A Collector Street is intended to serve as a distributor of traffic from Principal and Minor Arterials to Local Streets.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Collector Street. Neighborhoods serving commercial nodes are permitted along a Collector Street as governed by Zoning Codes.

Design Considerations and Traffic Operations

A Collector Street should not be designated as a truck route. A Collector Street should provide a connection to a Principal Arterial or to a Minor Arterial. Through traffic should be discouraged on a Collector Street. Traffic movement and access to abutting properties are equally important functions of a Collector Street. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances. Special care should be taken in the design of a Collector Street and intersections to provide safe and frequent pedestrian crossing opportunities. An environment conducive to pedestrian activities should be encouraged along a Collector Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 94-ft. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 12-ft travel lanes are required with an 11-ft turn lane and/or median, a 6-ft bike lane and 2-ft buffer followed by an 8-ft parallel parking along each side. The center turn lane/median may be ~~omitted~~omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

*****REFER TO STANDARD PLAN No. 110.00, 110.04*****

LOCAL

Functional Purpose

A Local Street is intended to serve only for neighborhood access to Collector Streets and Arterials. Through traffic should be discouraged. Local Streets initiate and terminate trips. Examples are local subdivision and neighborhood streets. Traffic movement and access to abutting properties are equally important functions of Local Streets. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Local Street. Special care should be taken in the design of a Local Street and intersections to provide safe and frequent pedestrian crossing opportunities. Only residential development should be encouraged on Local Streets.

Design considerations and Traffic Operations

A Local Street should not be designated as a truck route. An environment conducive to pedestrian activities should be encouraged along a Local Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 63-ft. Right-of-way may be reduced upon Public Works Director concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 10-ft travel lanes are required with 8-ft parallel parking along each side. Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

Elimination of parking on one or either side of the street shall only be considered under extenuating circumstances and requires the City to initiate the proposal based on their assessment of required infrastructure and current or anticipated public parking demand..

******REFER TO STANDARD PLAN No. 110.00, 110.05, 110.06 & 110.07******

100.03 STANDARD PUBLIC STREET SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal construction”, published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document. This is the process of tailoring the specification to the needs of the City.

100.04 PAVEMENTS

Pavement for City streets shall be HMA Class ½” PG64-28 in accordance with the most current edition of the WSDOT Standard Specifications. No light bituminous pavement methods shall be

allowed. Light bituminous surface treatments are allowed only for maintenance. Depth of pavement shall be as specified for each classification of street.

100.05 BASE ROCK AND ASPHALT TREATED BASE

Depth of base rock shall be as specified for each classification of street. Layering of rock gradations shall be as directed and approved by the Public Works Director. Asphalt treated base may be used as a structural equivalent. No alternative shall be used unless it has been approved by the Public Works Director. Use of construction fabrics shall be considered on a case by case basis. Some reduction in base materials may be allowed. Construction fabric may be required in situations involving unstable or highly erodible soils.

100.06 SUBGRADE

Subgrade shall be fully compacted native or imported materials. Imported materials must be approved by the Public Works Director prior to the placement thereof. Such materials shall be handled and placed in accordance with the Standard Specifications. Any situations involving unstable subgrade materials shall be corrected prior to placement of base material.

100.07 CURB AND GUTTER

Curb and gutter construction and retrofit work shall strictly be according to the City Standard Specifications and Plans. No rolled curb and gutter shall be allowed on any public street. Curb with no gutter is not permitted. Materials and placement shall be per the Standard Specification. Curb and gutter shall be placed on fully compacted subgrade with 4-in. minimum of compacted crushed rock between the subgrade and the bottom of the curb and gutter. The base rock shall extend a minimum of 12-in. behind the curb and gutter to assure a firm base. Driveway cuts and curb height transitions and ~~wheel chair~~ wheelchair ramps shall be as per City Standard drawings. Curb radius shall be a minimum of 12-ft. When narrow streets are constructed, 15-ft. radius shall be used. Radii on arterial streets must be chosen to accommodate truck turning radius. Radii greater than 15-ft. may be required.

******REFER TO STANDARD PLAN No. 110.17, 110.18, 110.19 & 110.20******

100.08 SIDEWALKS

Sidewalks shall be a minimum of 6-ft in width in residential areas. Wider walks may be required in school and commercial areas. Materials and placement shall be per the Standard Specifications. All sidewalks shall be placed on fully compacted subgrades and on a minimum of 4-in. of compacted crushed surfacing top course. Use of asphalt concrete pavement may be allowed only by special approval of the Public Works Director. Any signs, utility poles, access lids or similar

items placed in the sidewalk areas shall be isolated by separately poured concrete knock out sections, properly fitted with expansion joint material. No single panel between approach or ramp wings shall be less than 4-ft. in width between wings.

REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15, 110.16, 110.17 and 110.18

100.09 DRIVEWAYS

Driveways shall be built to the same specifications as ~~sidewalks, but~~ sidewalks but deepened to 6-in. of cement concrete. Driveway cuts, curb height transitions and ~~wheel chair~~ wheelchair ramps shall be as per City Standard drawings.

1. Driveways shall be located at least 2-ft. from lot lines of adjacent lots except that Public Works Director may waive separation within ROW.
2. In residential subdivisions, the width of driveways at the curb on lots with at least 60 feet of street frontage shall not exceed ~~250~~ 250 feet in width at the curb and back of the right-of-way, ~~as specified in the Public Works Directoring design standards,~~ provided that:
 - a. On lots with street frontage greater than 60 feet, the width of the driveway may be increased by 1 foot over the standard 20 foot width for every 3 feet of frontage over 60 feet, up to a maximum of width at the curb and back of the right of way of 30 feet.
 - b. On lots with less than 60 feet of street frontage, the driveway width at the curb may not exceed ~~2012~~ 20 feet;
 - c. The width of a driveway at its widest point shall not exceed the width of the driveway at the curb plus 4 feet; and
 - a-d. Driveway approach wings and pedestrian approach wings shall be separated by a minimum of 4 feet between the end of the wings.
3. ~~The width of a driveway at its widest point shall not exceed the width of the driveway at the curb plus four feet; and~~
4. ~~Driveway approach wings and pedestrian approach wings shall be separated by a minimum of four feet between the end of the wings.~~
3. ~~In residential short plats, the width of driveways shall not exceed 20 feet at the curb and back of the right-of-way or 24 feet at its widest point.~~ In residential short plats, the width of driveways shall not exceed 20 feet at the curb and back of the right of way or 24 feet at its widest point.
4. A shared private driveway shall serve no more than two lots. Legally binding easements shall be prepared and obtained by the landowners and shall be of sufficient width to adequately serve private and public utilities, stormwater, and fire department access.
5. ~~—~~

REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15 & 110.16

100.10 STREET LIGHTING

For off-set concrete sidewalks, street lights shall be located a min. of 3-ft behind the back of concrete curb. For curb tight concrete sidewalks, street lights shall be located a min. of 2-ft behind the back of concrete sidewalk. Street lights shall not be set in the concrete sidewalk area. Street lighting spacing shall be 300-ft for local/residential streets and 150-ft for collector/arterials. Spacing shall be staggered opposite sides of the streets, except on curves where spacing shall be determined by the Public Works Director. All intersections shall have a minimum of (1) light. Additional lighting may be required by the Public Works Director along any given roadway.

Ornamental pedestrian lighting shall be placed as directed by the Public Works Director.

******REFER TO STANDARD PLAN No. 110.73, 110.74, 110.75, 110.76******

100.11 RECTANGULAR RAPID FLASHING BEACONS (RRFB)

RRFB's shall be used at areas with high volumes of pedestrian crossings with speed limits less than 40 miles per hour. Generally, RRFBs are used at specific school crossings, trail crossings and mid-bloc crossings. Actual determination of RRFBs and their locations shall be determined by the Public Works Director. RRFBs shall be placed on both sides of a crosswalk below the pedestrian crossing sign and above the diagonal downward arrow plaque pointing at the crossing. The flashing pattern shall be activated with pushbuttons or passive (e.g., video or infrared) pedestrian detection and should be unlit when not activated.

The use of hard-wired RRFBs should be utilized versus solar powered RRFBs. Solar powered RRFBs may be allowed under special circumstances as approved by the Public Works Director. The City reserves the right to use RRFBs for locations with significant pedestrian safety issues.

RRFBs shall not be used without the presence of a pedestrian, school or trail crossing warning sign. RRFBs shall not be used for crosswalks across approaches controlled by Yield signs, Stop signs, traffic control signals or pedestrian hybrid beacons, except for the approach or egress from a roundabout.

******REFER TO STANDARD PLAN No. 110.80******

100.12 PAVEMENT MARKINGS

General

Pavement markings shall be provided as required and needed in accordance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and as directed by the Public Works Director.

All pavement markings shall be painted using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director.

Traffic Arrows

Traffic arrows shall be painted white using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director. Traffic arrow size shall conform with the City of College Place existing arrow painting template. Arrow size shall be 6-ft long x 3-ft wide. Contractor shall coordinate with the City of College Place for traffic arrow template sizing.

Bicycle Lanes

When directed by the City, bicycle lanes shall be green MMA colored. Refer to Section 1520.05 Additional Bicycle Design Requirements and Considerations of the WSDOT Design Manual for additional information. Bicycle lanes shall be striped in accordance with the latest edition of the MUTCD.

100.13 CONDUITS

General

Arterial and Collectors streets shall include underground electrical grade conduits at the 4-legs of an intersection. Residential and local streets will generally not require underground electrical grade conduits at the 4-legs of an intersection unless it has been determined by the Public Works Director. Missile boring and/or micro-borings are not allowed.

******REFER TO STANDARD PLAN No. 110.78, 110.79******

200 WATER SYSTEM SPECIFICATIONS

200.01 WATER MAINS

All water mains shall, at a minimum, meet the criteria of AWWA Standard C151. 12-in and smaller lines shall be Class 50 ductile iron with Class C104 cement mortar lining with all joints mechanically restrained. Pipe joints shall be restrained using TR-flex or Flex Ring ductile iron pipe or by using Field Lok or Fast-Grip gaskets. The gaskets used shall be manufactured by the manufacturer of the pipe being used and shall be recommended by the manufacturer for the application. Water lines larger than 12-in shall be ~~TR-Flex or Flex-Ring~~ ductile iron pipe Class 52.

The Public Works Director and/or the City Engineer shall determine the sizes of all water mains. A smaller diameter water main may be allowed if the main is placed within fully platted cul-de-sacs where the pipeline does not exceed 400-ft and does not continue through the cul-de-sac to connect with another existing water main. Where a public right-of-way is not available, permanent, exclusive City utility easements shall be obtained with a 20-ft. minimum width. All water mains shall be located within appropriate public access to allow for maintenance. There shall be a minimum of 30-in cover material over all water mains. All water pipes including mains and service lines shall be fitted with a copper, 12-gauge locator wire.

*****REFER TO STANDARD PLAN No. 210.00, 210.01*****

200.02 FIRE HYDRANTS

GENERAL SPECIFICATIONS

Fire hydrants installed within the City of College Place shall meet all standards as set forth in this chapter, the City of College Place Standard Specification Plans & AWWA Standard C502.

Manufacturer Specifications

- ☐ Manufactured in accordance with AWWA Standard C502
- ☐ 5-1/4-in. MVO (Main Valve Opening)
- ☐ 2, 2-1/2-in. Hose Ports
- ☐ 1, 4-1/2-in. Pumper Port
- ☐ Dry barrel
- ☐ Center stem operation
- ☐ 2, Drain ports

Approved Manufacturer Brands

- ☐ Mueller Centurion
- ☐ Clow Medallion

- ❑ MH 929
- ❑ Waterous Pacer (AFC WB 67-250)

******REFER TO STANDARD PLAN No. 210.00, 210.02 - 210.04, & 210.09 - 210.11 ******

Special Pumper Nozzle

Fire hydrants shall be installed with a Storz coupling and cap on the 4-1/2-in pumper port enabling the hydrant to accept 5-in hose.

Storz Specifications

- ❑ 5-in Storz metal face adapter x female hydrant thread. Material shall be 60061-T6 aluminum alloy, forged or extruded, no cast parts. Finish shall be hard coat anodize to mil A-8625c. Dimensional requirements as follows.
 - Overall diameter not to exceed 7-3/4-in.
 - Overall length not to exceed 4-1/4-in.
 - Shall fit National Standard Thread.
 - Shall be supplied with two (2) 14-20 holes drilled and tapped, 180 degrees apart through female thread, to lock adapter to hydrant.
 - Any required sealant shall be supplied with each coupler.
- ❑ The 5-in. Storz cap material shall be 6061-T6 aluminum alloy, forged or extruded, no cast parts. Dimensional requirements as follows.
 - One seal to be nitrile/vinyl rubber, suction style for zero leakage, color to be gray.
 - 1/8-in. vinyl covered aircraft cable, 18-in. minimum length to be attached to the cap & adapter.
 - Force to connect or disconnect to be a minimum of 18-ft./lbs., maximum of 30-ft./lbs.
 - Outside diameter not to exceed 7-3/14-in.
 - Overall length not to exceed 2-in.
 - Shall meet or exceed NFPA standard 1901.

******REFER TO STANDARD PLAN No. 210.04******

200.03

VALVE RISER & BOXES

Valve Box Riser & Cover

The valve riser box shall be centered and fit over the valve-operating nut. It shall be extended to the finished grade surface. Any debris in the valve riser shall be removed prior to job completion. All valve boxes shall be cast iron in structure with a cast iron ring. The cover shall be cast iron and shall be stamped "WATER." The valve box shall be Tyler Union Series 6855 or an approved equal.

****REFER TO STANDARD PLAN No. 210.00, 210.02, 210.03 & 210.08****

200.04 WATER METERS

Water meters typically range in size from Full ¾-in. to 2-in. depending on application. All water meters shall be Metron-Farnier with Innov8 heads. 1-1/2-in. and larger meters shall be determined by application. The minimum size for a residential meter is Full ¾-in. A larger size may be appealed to the Public Works Director. The sizing of water meters will be evaluated and approved by the Public Works Director. All water meters shall register in gallons. The meter register shall be radio read and display from left to right registering in 1,000 gallons. Water meters shall not be placed in driveways. ~~Water meters shall be placed between the back of curb and sidewalk for off-set sidewalks.~~ Water meters shall be placed 2-ft behind back of sidewalk. ~~the back of curb for curb tight sidewalk~~

200.05 METER BOXES

All meter boxes for 1" meters and less shall be plastic in structure. The complete meter box shall have three parts to its assembly. The bottom piece shall be an 18-in. mid-section. **PIPE SLOTS SHALL NOT BE USED.** The top piece shall be a 12-in. top section. The cover shall be a solid cast iron lid with a 9-1/4-in. x 5-1/2-in. lid opening. The lid shall be cast iron with a small oval shaped opening for a meter stick. Meter boxes shall be Mid-States 1324 or an approved equal.

City will provide and install meter box and meter. Coordinate with City staff to schedule installation.

****REFER TO STANDARD PLAN No. 210.00, 210.06, 210.07, 210.21 & 210.22 ***

200.06 SERVICE LINE PIPE

All service lines shall be a minimum of 1-in. in size. The material used for 1-in. service piping shall be either Type K copper or CTS (Copper-Tube Size) Polyethylene Pipe. Service lines larger than 1-in. shall be constructed with CTS Polyethylene Pipe or Type K copper. If Polyethylene Pipe is used, a stainless steel insert shall be placed at each connection and No.12 solid copper tracer wire must be placed along the pipe from the main to the top of the meter box.

****REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 ***

200.07 SERVICE LINE INSTALLATIONS

The City of College Place does not allow direct taps to water mains. The City requires the installation of a tapping saddle. Tapping saddles with 1-in. taps may be single strap service saddles. Tapping saddles with taps larger than 1-in. shall be a double strap. Single strap saddles shall be

ROMAC 101S or an approved equal. Double strap saddles shall be ROMAC 202S or an approved equal. Saddles shall be placed on the water main with the tap set at a 9 or 3-o'clock orientation to the water main. The corporation stop shall be placed into the saddle with the valve key facing up. Polyethylene shall be laid with slack in the line to allow for contraction and elongation due to temperature changes. Copper shall have a slight lateral curve from the corporation stop to the meter setting. Bedding of service lines shall be in accordance with the bedding specifications. The top to the meter setting shall be no less than 16-in. from ground level and no more than 22-in. from finished grade.

*****REFER TO STANDARD PLAN No. 210.00, 210.01, 210.05 & 210.06 *****

200.08 SERVICE AND METER BRASS

All brass shall be either Ford or Mueller. A description of the fitting will be more useful than the product number when approval is being sought from the City.

CORPORATION STOPS

All corporation stops shall be ball valve type with MIPT (Male Iron Pipe Thread) x CTS (Copper Tube Size) compression fittings.

ANGLE BALL VALVES

All meter shut off valves shall be ball valves. Depending upon application, the following angle ball valves may be used.

Ball Valve Types Allowed

- ☐ 1-in. FIPT (Female Iron Pipe Thread) inlet with meter swivel nut outlet.
- ☐ 1-in. Compression inlet with meter swivel nut outlet.
- ☐ 1-1/2-in. & 2-in. FIPT (Female Iron Pipe Thread) inlet with meter flange outlet

ANGLE CHECK VALVES

Check Valve Types

- ☐ 1-in. meter swivel nut inlet with FIPT or compression outlet
- ☐ 1-1/2-in. & 2-in. meter flange inlet with FIPT or compression outlet

200.09

MAINLINE VALVES

GENERAL SPECIFICATIONS

All valves shall open by turning ~~counter-clockwise~~counterclockwise. All underground valves shall have a 2-in. square-operating nut. All valves shall be rated and tested at 150 lbs. working pressure or greater. All valves shall be bolted to fittings whenever possible. All valves shall be equal to the water main size they are attached to.

GATE VALVES

Gate valves shall be used for all valves up to 8" valves and may be used for valves up to 12". All gate valves shall be resilient wedge gate type valves and shall be manufactured according to AWWA Standard C509-87.

BUTTERFLY VALVES

Butterfly valves may be used for valves 10" and greater. Any valve larger than 12-in. shall be a butterfly valve. All butterfly valves shall be manufactured according to AWWA Standard C509-87.

VALVE PLACEMENT

Valves shall be spaced and system pipelines looped so that no more than one block is deprived of service in the event of a shutdown of any pipeline segment to which customers are connected. In addition, lengths of pipe without valves shall not exceed 500-ft. in school, commercial, or multi-family areas and 600-ft. in residential areas. At any tee connection, all legs of the tee shall be valued. Fire hydrant tee assemblies may have only fire hydrant value.

******REFER TO STANDARD PLAN No. 210.00 - 210.03 & 210.08 *****

200.10

BEDDING

All pipes shall have 4-in. of crushed rock underneath for bedding and 6-in. of crushed rock above the pipe and across the entire pipeline ditch. This bedding requirement shall apply to all water mains and service lines. Bedding materials shall be per the Standard Specifications. The Public Works Director shall approve all other bedding material.

******REFER TO STANDARD PLAN No. 210.00, 210.02, & 310.08 *****

200.11 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used. This backfill requirement applies to all water mains and service lines.

*****REFER TO STANDARD PLAN No. 210.00, 310.08*****

200.12 SUB-DIVISION REQUIREMENTS

All developers of sub-divisions shall be required to install all water appurtenances according to the Water System Specifications contained in this document. It shall be the developer's responsibility to bear the cost of all water-related installations.

On newly poured curbs, the capital letter "W" shall be stamped on the top to the curb, while the concrete is still wet, where the service lines cross under the curb. A treated 2 x 4 wood stake shall be placed over the service stub past the meter box for location purposes. All lots shall have individual water services. Water services to individual lots shall be placed at a property corner on the street side of the lot a minimum of 2-ft from backside of sidewalk and no more than 5-ft of the property line.

*****REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 *****

200.13 PRESSURE CONTROL VALVES

All pressure control valves shall be Clayton control valves (Clayton ~~Val~~ Valves). All applications shall be reviewed and approved by the Public Works Director before installation is allowed.

200.14 FITTINGS

All fittings shall meet AWWA standards. Class 350 Ductile Iron SSB fittings are allowed. Cast (Gray) Iron fittings meeting AWWA Standard C110 are allowed.

200.15

FIRE HYDRANT PLACEMENT

Wherever possible, fire hydrants shall be located at street intersections, and located to minimize the hazard of damage by traffic. All fire hydrants shall have an isolation valve located at the water main. A minimum 6-in. diameter lateral pipe and isolation valve is required for connecting hydrants to the main line. Where hydrants are located more than 50-ft. from an 8-in. or larger main, a minimum 8-in. diameter lateral pipe and isolation valve is required. Fire hydrants shall stand plumb and be set to finish grade. The bottom of the lowest outlet of the hydrant shall be no less than 18-in. above finished grade. Fire hydrants shall be installed with a minimum of a 3-ft. unobstructed radius around the hydrant. Hydrants shall be aligned so that pumper ports face toward the road or most probable route of access of the fire truck. Hydrants shall be placed a minimum of 3-ft behind the back of curb with an off-set sidewalk. Hydrants shall be placed 2-ft behind the back of sidewalk with a curb tight sidewalk. If there is no curb protection for the hydrant then hydrant guard posts shall be installed around the hydrant with a 3-ft minimum clearance. A minimum of 2 hydrant guard posts shall be installed on the side facing the street.

Hydrant Spacing

- | | |
|---|--------------------|
| ☐ Urban Residential less than ¼ acre | 330-ft. separation |
| ☐ Suburban Residential ¼ acre to 1 acre | 660-ft. separation |
| ☐ Commercial/Industrial and Multi-Family | WAC 246-293 (DOH) |

The above classifications are general in scope. The Fire ~~Marshal~~Chief and Public Works Director may impose more restrictive requirements.

******REFER TO STANDARD PLAN No. 210.00 ~~210.04~~ & 210.09 – 210.11 ******

300 SANITARY SEWER SPECIFICATIONS

300.01 GENERAL SANITARY SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction” published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement ~~in-to~~into the work. Minor changes and details may differ as per this document.

Sewer main extensions shall be governed by Article V “Sewer Main Extensions” Sections 13.08.260 through 13.08.305 of the College Place Municipal Code. Plans shall be submitted with the seal of a Washington Professional Engineers Stamp.

Sanitary sewer less than 8-in. diameter will not be accepted for City maintenance. Only privately maintained sewers may be less than 8-in.

300.02 APPROVED MAINLINE MATERIALS (8-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ Others only as approved by the Public Works Director

300.03 APPROVED SERVICE LATERAL MATERIAL (4-in. MAXIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ ABS (Acrylonitrile-Butadiene-Styrene) pipe (private lines only)

PVC pipe joints shall conform to ASTM D 3212 using restrained gasket conforming to ASTM F 477.

*******REFER TO STANDARD PLAN 310.00, 310.04, 310.05, 310.06 & 310.08*****

300.04 BEDDING

All sanitary sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill on compacted bedding at a minimum of every 100' and at manhole terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Sanitary pipe and manholes subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17.

The bedding under pipe and manholes shall be compacted prior to pipe and manhole placement to provide uniform support along the entire length of the pipe and under manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 310.00 – 310.03 & 310.08 ******

300.05 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN 310.00 & 310.08******

300.06 CLEANING, TESTING AND MARKING

All pipe/pipes shall be tested by application of an air pressure test in accordance with the Standard Specifications 7-17.3(2) E or F as applicable. Cleaning and removal of any rock in the sewer is required. After cleaning, the City shall be notified for to observe TV inspection (performed by Contractor or their assignee) of all lines 8-in. and larger. Any work failing air test and or TV

inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

Lateral side sewer services must be marked with a No. 12 solid copper locator wire and the ends, marked with buried steel fence post extended above the ground at least 3 feet. The locator wire shall be tied around the main line and extended along the side sewer and up the marker post.

******REFER TO STANDARD PLAN 310.00, 310.05 & 310.06 ******

300.07 MANHOLES

Manholes shall be provided at all angle points. Points of grade change and at the ends of sewer main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes shall be constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast materials cannot be used, sand collars and grout seal or similar transitions shall be used where the pipe is connected to the manhole. All joints must be watertight. Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Pre-cast bases shall be set level on a minimum of 6-in. of well compacted crushed aggregate. Manhole barrel sections and riser rings shall be sealed watertight with mastic. All sewer manholes shall be sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be pressure tested when seasonal high groundwater is over 3' from high from the base.

Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

******REFER TO STANDARD PLAN 310.00 ~~310.04~~ & 310.07******

300.08 SEALING-MANHOLES

Manhole barrel sections and riser rings shall be sealed watertight with mastic. In addition, all manholes subjected to groundwater shall be ~~shall be~~ sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be vacuum tested when seasonal high groundwater is over 3' high from the base. The structure will be tested in accordance with ASTM-C 1244-93 as follows:

- A. All lift holes and pipes entering into the manhole will be plugged, taking care to securely brace each plug from being drawn into the structure.
- B. The test head will be placed at the top portion of the structure in accordance with the manufacturers' recommendations.
- C. A vacuum of 10 inches of mercury will be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. With the valves closed, the time will be measured for the vacuum to drop by 1 inch to 9 inches. The manhole will pass the vacuum test if the time is greater than the time shown in Table 1.
- D. If the manhole fails the initial test, necessary repairs will be made by an approved method. The structure will then be retested until a satisfactory test is obtained.
- E. If the manhole joint is displaced during the vacuum test, the manhole will be disassembled, the seal replaced, the structure reassembled, and retested until compliance is obtained.
- F. Testing can be done either before or after backfill operations around the structure; however, if during backfill operations it is found that the structure has been disturbed and it is suspected that the integrity of the joint has been compromised, retesting will be required.
- G. Table 1 below gives allowable time loss in seconds; i.e., test section is acceptable if vacuum does not drop below 9 inches until after the times shown below have expired.

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	48	51	57
16	22	24	29	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81
22	31	33	39	46	55	64	72	79	89
24	33	36	42	51	59	64	78	87	97

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
26	36	39	46	55	64	75	85	94	105
28	39	42	49	59	89	81	91	101	113
30	42	45	53	63	74	87	98	108	

(Reference: City of Olympia Engineering and Development Standards, 2013)

*****REFER TO STANDARD PLAN No. 310.00 & 310.07 *****

300.09 SERVICE LATERALS

Sewer service laterals for single family residential dwellings shall be 4-inches and have a minimum slope of 2.0% slope.

Sewer service laterals shall be 6-inch or larger for multi-tenant buildings or collect flows for multiple 4-inch service lines servicing separate dwellings.

Sewer service laterals shall be 6-inch or larger for commercial and multi-tenant buildings unless approved by the Public Works Director.

300.10 CLEANOUTS

Cleanouts are required on service laterals as required to meet the following:

- At each 90° elbow (note required if two 45° elbows are used).
- When a total of 135° bends have been made in the installation
- Not more than 100-ft of line can run without a cleanout being installed
- A cleanout will be required where the connection is made near the building unless an existing cleanout already exists just outside or just inside the foundation or basement.
- A cleanout is required immediately downstream of the sewer backflow device if a backflow device is required.
- All cleanouts shall be the same size as the lateral they serve.

401 STORM SEWER SPECIFICATIONS

401.01 GENERAL STORM SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest addition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction” published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document.

401.02 MANHOLE-BASED STORMWATER COLLECTION SYSTEMS

Stormwater collection systems shall route stormwater from individual catch basin inlets to manholes. Stormwater shall not be routed by means dependent upon surface elevations subject to change due to road resurfacing or chip sealing.

401.03 APPROVED MAINLINE MATERIALS (10-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ HDPE (High-Density Polyethylene) smooth bore, annular ring pipe meeting ASTM F 667.
- ☐ Others only as approved by the Public Works Director.

401.04 MINIMUM SIZE OF STORM SEWERS

The minimum diameter of any public storm sewer pipe in the City of College Place shall be 10-in. Smaller sizes may be approved by the Public Works Director. Storm lines shall maintain a minimum 2.5 fps velocity at design flow and 3 fps flowing full.

401.05 BEDDING

All storm sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill, on compacted bedding at a minimum of every 100' and at manhole and curb inlet (catch basin) terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases and curb inlets (catch basins) shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Stormwater pipe, manholes and curb inlets subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17 and City Standard Plan 310, Sections 16 & 17.

The bedding under pipe, curb inlets and manholes shall be compacted prior to pipe, curb inlet and manhole placement to provide uniform support along the entire length of the pipe and under curb inlets and manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe, curb inlet or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.06 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.07 CLEANING AND TESTING

The Public Works Director may require the application of an air pressure test on any storm sewer pipes per Standard Specifications 7-04.3(1) E or F as applicable. Cleaning and removal of any rock is required. After cleaning, the City shall be notified for TV inspection of all storm sewer lines. Any work failing an air test and or TV inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

******REFER TO STANDARD PLAN No. 410.00 & 410.01 ~~410.07~~******

401.08 MANHOLES & CURB INLETS (CATCH BASINS)

Manholes shall be provided at all angle points. Points of grade change and at the ends of storm main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between

manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes with PVC connections are typically constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast manholes are not required, sand collars with grout seal or similar transitions shall be used on PVC pipe where the pipe is connected to the manhole. HDPE pipe connections to the manhole may be grouted ("A-lok" and sand collars not required). Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Catch basins shall be placed to minimize flow of water by pedestrian sidewalk ramps and no more than 350 feet apart. Curb inlets (catch basins) with PVC line connections shall use sand collars with grout seal ("A-lok" also acceptable). Similar transitions may be used with Public Works Director approval. HDPE pipe connections to the curb inlets may be grouted (sand collars not required).

Bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

*****REFER TO STANDARD PLAN No. 410.00, 410.04 – 410.07*****

401.09 SEALING-MANHOLES

Manhole sealing requirements for storm sewer facilities shall be the same as those for sanitary sewer facilities.

*****REFER TO STANDARD PLAN No. 410.00*****

410 STORMWATER FACILITY SPECIFICATIONS

The City of College Place's Stormwater Facility Specifications employ a stormwater facility certification process which provides the responsible design engineer with considerable latitude in design and construction of stormwater facilities. On projects that require stormwater facilities, the responsible engineer submits a stormwater report and a stamped Stormwater Design Certification (STD Plan 410.10) with plans submitted for review and then submits a Stormwater Facility Construction Certification (STD Plan 410.20) once the facility is constructed. A stormwater construction certification statement is also required to be placed on the record drawings.

In general, the City will accept and rely upon the professional engineer's certification; however, the City reserves the right to review the submittal for compliance.

During the development of individual lots, the permittee is required to certify that final grading on the lots will conform to the stormwater design.

410.01 PROFESSIONAL ENGINEER

Stormwater facility designs shall be prepared and sealed by a professional engineer licensed in the State of Washington.

410.02 DESIGN STANDARDS

Stormwater facilities shall be designed and constructed in accordance with the recommendations and guidance of the current edition of the Stormwater Management Manual for Eastern Washington (SMMEW) and the most recent update of the *City of College Place Stormwater Facility Standards*.

500 GRADING AND SLOPE SPECIFICATIONS

Cut and fill slopes exceeding a 4 (horizontal):1(vertical) slope and exceeding 8 ft. in height shall be subject to the following requirements except as permitted by the Public Works Director.

500.01 PROFESSIONAL ENGINEER

Cut and fill slope designs shall be prepared and sealed by a professional engineer licensed in the State of Washington (engineer-of-record) with demonstrated geotechnical experience acceptable to the Public Works Director.

500.02 DESIGN ELEMENTS

Slope designs shall be designed to meet all loading and surcharge requirements and shall incorporate 10-ft. minimum width benches allowing for vehicle access at no more than 10-ft. vertical intervals and a drainage/stormwater system meeting the requirements of City Stormwater Standards and the current edition of the Stormwater Management Manual of Eastern Washington. Fill slopes shall not exceed 2:1. Designs shall meet all requirements of the currently adopted IBC and IRC. The design shall include lift and compaction requirements as required by the engineer-of-record and shall incorporate long-term slope stabilization measures. Designs using plant-based stabilization measures shall include irrigation systems to establish vegetation. Set-backs from the slope, if any, shall be included in the design and shown on any approved construction plans and recorded plats.

500.03 PERFORMANCE ASSURANCE

Upon completion, slopes shall be certified by the engineer-of-record to meet, as constructed, the requirements and specifications of the design. Occupancy for structures above and below the slope shall not be permitted until all slopes and other improvements as noted in CPMC 14.10.070 A.2.a.(2) are recognized as complete by the City. Vegetation-related slope stabilization measure shall be financially guaranteed until certified to be established for unmaintained growth by a licensed arborist (or equivalent license) acceptable to the City.

600 PARKING LOT SPECIFICATIONS

These parking lot standards supplement CPMC 14.60.070. CPMC 14.60.070 shall govern in the event of a conflict between these standards and CPMC 14.60.070.

600.01 APPLICABILITY

Off-street parking and loading space shall be provided in accordance with the requirements of these specifications for all new development activities including the construction of new buildings, the expansion of existing buildings, changes of use, and/or changes to the terms and conditions of occupancy such as enlarging, moving or increasing capacity by creating or adding dwelling units, commercial or industrial floor space, or seating facilities, or by making alterations to parking areas..

600.02 GENERAL REQUIREMENTS

The provision and maintenance of off-street parking and loading facilities shall be a continuing obligation of the owner or sponsor of a use, so long as the use is in existence and so long as parking and loading facilities are required in connection with a given use.

With regard to pre-existing parking facilities, the following shall apply:

- a. A pre-existing use which does not have sufficient parking facilities to meet the requirements of this chapter may continue to operate with the parking deficiency so long as no enlargement or other change is made in the use, building size or which would require additional parking facilities;
- b. When a preexisting use is modified or enlarged so as to require additional parking facilities, these standards shall apply;
- c. When additional uses are placed on the same lot with the preexisting use or an enlarged lot of which the preexisting use lot is a part, standards shall apply only to the additional use.

600.03 DESIGN REQUIREMENTS

All required off-street parking and loading facilities shall be developed in accordance with the following:

All required parking spaces shall be located on the same site with the building they serve, unless:

- A shared or joint use parking agreement has been approved by the city; or
- A voluntary in lieu of payment to provide the required parking in a public or cooperative parking facility has been approved by the city; and/or
- The city makes a written finding that adequate on-street parking exists to reasonably serve the new development/use.

Minimum parking area dimensions shall be as in the Off-street Parking Area Dimensions table.

The slope of entrance and exit driveways providing access to public streets for off-street parking areas shall not exceed ten percent unless otherwise approved by the Public Works Director.

Driveways and Maneuverability

1. All required parking spaces shall be in usable shape and condition and adequate ingress to and egress from each space shall be provided without moving another vehicle.
2. Turning and maneuvering space shall be located entirely on private property unless specifically approved by the Public Works Director.
3. All parking spaces shall be internally accessible to one another without reentering adjoining public streets unless otherwise approved by the Public Works Director.
4. Ingress and egress to and from any off-street parking area shall not be located closer than twenty feet from point of tangent to an intersection or pedestrian crosswalk unless otherwise approved by the Public Works Director.
5. Separate ingress and egress may be required for smoother and safer flow of traffic.

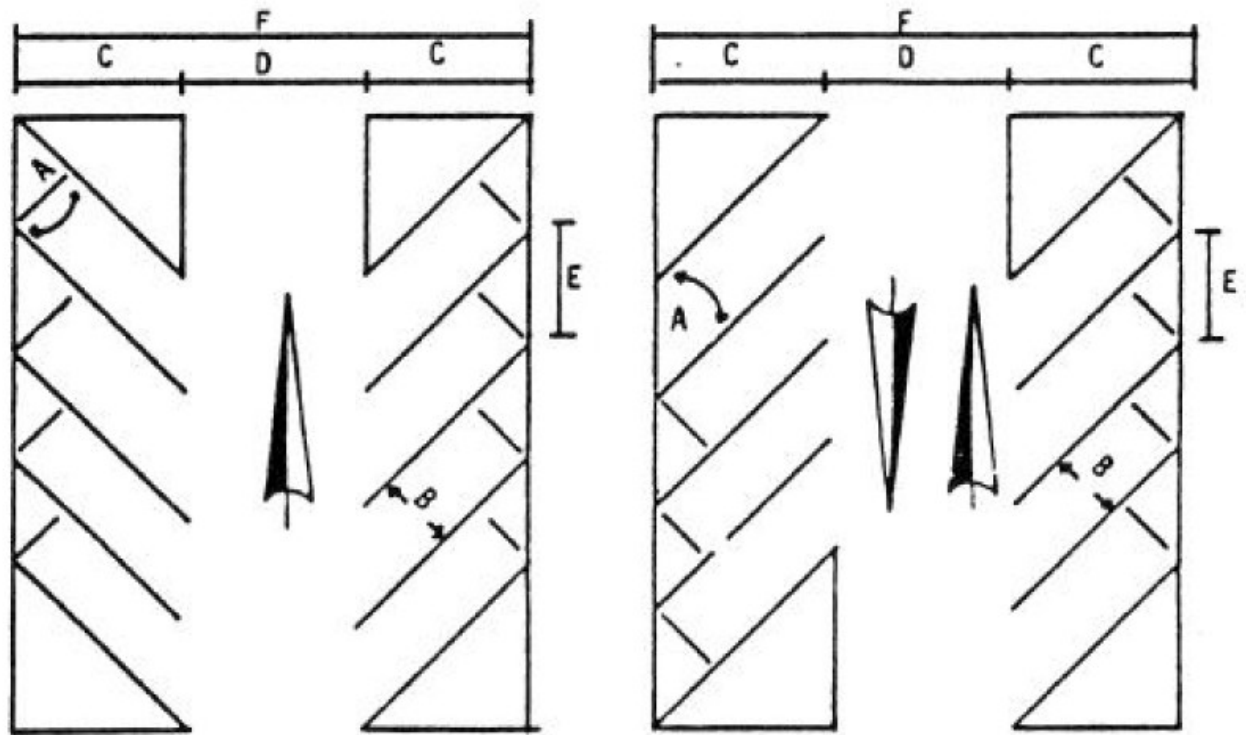
TABLE 600.A

Off-Street Parking Area Dimensions
(Use in conjunction with Figure 600.A)
(*Compact Stalls)

A	B	C	D		E	F	
			Aisle Width			Unit Width	
Parking Angle	Stall Width	Stall Depth	One-Way Traffic	Two-Way Traffic	Curb Length Per Car	One-Way Traffic	Two-Way Traffic
0°	8.0*	8.0*			20.0*	28.0*	36.0*
	8.5	8.5	12.0	20.0	23.0	29.0	37.0
20°	8.0*	13.0*			23.4*	37.0	46.0*
	8.5	14.5	11.0	20.0	24.9	40.0	49.0
	9.0	15.0	11.0	20.0	26.3	41.0	50.0
	9.5	16.5	11.0	20.0	27.8	42.0	51.0
30°	8.0*	14.9*			16.0*	40.8*	49.8*
	8.5	16.9	11.0	20.0	17.0	44.8	53.8
	9.0	17.5	11.0	20.0	18.0	45.6	54.6
	9.5	17.8	11.0	20.0	19.0	46.6	55.6
40°	8.0*	16.4*			12.5*	44.8*	52.8*
	8.5	18.7	12.0	20.0	13.2	49.4	57.4
	9.0	19.1	12.0	20.0	14.0	50.2	58.2
	9.5	19.5	12.0	20.0	14.8	51.0	59.0
45°	8.0*	17.0*			11.3*	46.5*	54.0*
	8.5	19.4	12.5	20.0	12.0	51.3	58.8
	9.0	19.8	12.0	20.0	12.7	51.6	59.6
	9.5	20.1	12.10	20.0	13.4	52.2	60.2
50°	8.0*	17.4*			10.4*	47.3*	54.8*
	8.5	20.0	12.5	20.0	11.1	52.5	60.0
	9.0	20.4	12.0	20.0	11.7	52.8	60.8
	9.5	20.7	12.0	20.0	12.4	53.4	61.4
60°	8.0*	17.9*			9.2*	53.3*	55.8*
	8.5	20.7	17.5	20.0	9.8	58.9	61.4
	9.0	21.0	17.0	20.0	10.4	59.0	62.0
	9.5	21.2	16.5	20.0	11.0	58.9	62.4
70°	8.0*	17.8*			8.5*	55.1*	55.6*
	8.5	20.3	19.5	20.0	9.0	61.1	61.6
	9.0	21.0	19.0	20.0	9.06	61.0	62.0
	9.5	21.2	18.5	20.0	10.1	60.9	62.4
80°	8.0*	17.2*			8.1*	57.4*	53.4*
	8.5	20.2	23.0	24.0	8.6	63.4	64.4
	9.0	20.3	22.0	24.0	9.1	62.6	61.6
	9.5	20.4	21.0	24.0	9.6	61.8	64.8
90°	8.0*	16.0*			8.0*	56.0*	57.0*
	8.5	19.0	24.0	25.0	8.5	62.0	63.0
	9.0	19.0	23.0	24.0	9.0	61.0	62.0

	9.5	19.0	22.0	24.0	9.5	60.0	62.0
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FIGURE 600.A



- ~~2. Turning and maneuvering space shall be located entirely on private property unless specifically approved by the Public Works Director.~~
- ~~3. All parking spaces shall be internally accessible to one another without reentering adjoining public streets unless otherwise approved by the Public Works Director.~~
- ~~4. Ingress and egress to and from any off-street parking area shall not be located closer than twenty feet from point of tangent to an intersection or pedestrian crosswalk unless otherwise approved by the Public Works Director.~~
- ~~5. Separate ingress and egress may be required for smoother and safer flow of traffic.~~

Surfacing Requirements.

1. All parking areas and facilities shall be paved with asphalt or concrete and shall be graded and shall conform to the City's Stormwater Facility Standards and the Stormwater Management Manual for Eastern Washington.
2. All traffic control devices such as parking stripes designated car stalls, directional arrows or signs, wheel stops, curbs and other developments shall be installed and completed as shown on the approved plans.

3. Paved parking areas shall use paint or similar devices to delineate car stalls, direction of traffic flow and pedestrian walkways.
4. Wheel stops shall be required on the periphery of all parking lots so that cars will not protrude into the public right-of-way, sidewalks or paths, off the parking lot, onto adjacent property or strike a building, fence, or landscaping. Wheel stops shall be three feet from the end of the stall for head-in parking. ~~Wheel stops~~ Wheel stops are not required for parallel parking or for diagonal or head-in parking against ~~an~~ 8-ft or wider sidewalk.
5. All parking areas, except those in conjunction with a single-family or two-family dwelling shall be graded so as not to drain storm water over the public sidewalk or onto any abutting public or private property.
6. Building permits shall be required for all parking lot construction, repair or resurfacing. Parking lot servicing shall not encroach upon the public right-of-way.

Lighting Requirements. Exterior lighting for all uses and signs shall be directed downward and otherwise arranged, shaded, screened, shielded, and of a design that results in the light being directed onto the site and of an intensity or brightness as follows:

1. So as not to interfere with the safe operation of motor vehicles, bicyclists, and other legal use of the roadway or sidewalk;
2. Maximum illumination at neighboring property lines shall not exceed 0.5 foot-candles at grade level;
3. Luminaries shall be aimed and shielded in a manner that shall not direct illumination on adjacent properties;
4. Full cutoff shielding is required for all luminaries to prevent wasted light up into the dark sky and prevent glare from normal viewing angles;
5. Shielding is required for luminaries located along property lines to prevent spill light onto adjacent properties; and

The city may require that the project sponsor submit a photometric plan and analysis to verify compliance with these standards.

Curb Cuts.

1. The number of curb cuts shall be kept to a minimum whenever possible so as to reduce the potential traffic flow conflict of vehicles and pedestrians.
2. All parking areas shall have specific ingress and egress areas to the street not exceeding width governed by 100.09 Driveways unless otherwise approved by the Public Works Director.
3. Joint-use or shared curb cuts shall be reviewed and approved and may be required by the Public Works Director.

Required parking spaces

1. Required parking spaces shall not be used for the permanent or semi-permanent parking or storage of vehicles or materials. Parking spaces are designed for use as temporary storage of employee, visitor or resident motor vehicles only.
2. All parking areas shall comply with the following landscaping provisions:
 - a. All required landscaping and landscaped buffers shall be designed by a qualified professional and submitted as a landscape plan in a format prescribed by the city, for review and approval.
 - b. Unless otherwise provided, all required landscaping shall be evenly distributed and shall consist of a mixture of hardy evergreen planted material including trees, low, medium and high-profile shrubs, together with suitable ground cover consisting of natural grasses, vines, bark mulch, and rockeries;
 - c. When plantings are used in screening or landscaping, they shall be compatible with area climate conditions and shall be provided with either a manual or automatic irrigation system;
 - d. The use of native plants and low water usage plantings is encouraged; and
 - e. All landscaping shall be placed and maintained in such a manner as not to impair vehicular visibility at parking area points of ingress/egress, emergency vehicle access, city maintenance activities, and shall comply with the sight visibility requirements in this section.
3. All required off-street parking facilities which have 15 or more parking spaces shall provide landscaping in conformance with the following:
 - a) A perimeter landscaped border of at least five feet wide around the parking area.
 - b) Interior landscaping in at least ten percent of the total land area covered in parking.
 - c) The interior of the parking areas shall contain landscape islands and peninsulas located in such a manner as to:
 - i) Divide and break up large expanses of paving;
 - ii) Guide traffic flow and direction;
 - iii) Promote pedestrian and vehicular safety; and
 - iv) Preserve existing trees and vegetation.
 - d) Landscape islands shall be installed to break up the parking area into rows of not more than 20 contiguous parking spaces or ten spaces in one row.
 - i) Each end of each row of parking spaces shall require a landscape island unless the end of such row of parking spaces is adjacent to a perimeter landscape;
 - ii) The minimum width for a landscape island or peninsula shall be five feet; and
 - iii) Each landscape island or peninsula shall contain a minimum of one shade tree and a combination of five deciduous and evergreen shrubs or groundcover.

4. Parking spaces, loading facilities, and all pedestrian areas shall be provided in accordance with the provisions of state and federal law, including the American with Disabilities Act (ADA), and the International Codes, as adopted by the city.
5. Required parking, pedestrian, loading, and bicycle facilities proposed in the downtown mixed-use district shall be provided by the project sponsor, at the rear or side of the building; and
6. Shared detached garages and surface parking should be located so their visual presence is minimized and associated noise or other impacts do not intrude into public spaces and shall be screened from public streets and adjacent residential uses.

600.04 INSPECTION REQUIREMENTS

All private parking lots and parking lots to be dedicated to the City shall be inspected and certified (stamped) by a professional engineer licensed to practice in the state of Washington to comply with City parking lot specifications and standards.

600.05 NUMBER OF SPACES REQUIRED

The minimum number of off-street parking spaces shall be determined in accordance with the Table 600.B. Where alternative standards are indicated, the greater requirement applies. In cases of mixed uses or occupancies, the various uses shall be computed separately and combined for the total off-street parking requirement. Where computations result in a fraction, the parking space requirement shall be rounded to the nearest whole number.

If the parking requirements for a use are not specifically identified below, the parking requirements shall be determined by the city in a written finding based upon:

- a. The requirements for the most comparable use defined in this chapter; and/or
- b. The appropriate standards derived from the Institute of Transportation Engineers (ITE)'s Parking Generation Manual, as adopted by the city; and/or
- c. A parking study prepared by the applicant documenting the expected parking demand for the proposed use; and/or Required parking for the proposed use as determined by other comparable jurisdictions.

Similarly, parking uses preceded by an “*” may alternatively be determined by one of the methods above.

TABLE 600.B

	Spaces Required
Single-family and two-family dwellings Multifamily dwellings	Two spaces/dwelling unit One and one-half spaces/dwelling unit with two or more bedrooms; or One space/dwelling unit with one bedroom or a studio apartment.
Accessory Dwelling Unit	One additional space/ADU
Mobile home parks	Two spaces/dwelling unit
Cottage housing	One space/dwelling unit
Vacation Rentals	Two spaces/dwelling unit with two or more bedrooms; One space/dwelling unit with one bedroom or studio dwelling unit.
Bed and Breakfast Inn	One space/guest room
*Fraternities, sororities and dormitories	1 per 3 occupants
Hotels/motels	One space/guest room; and at least one space for each employee at work during peak periods; and one space/500 feet of common areas.
*Boardinghouses and lodging homes	1 per sleeping room or lodging unit
*Senior citizens housing, designed with independent dwelling units	0.5 per dwelling unit
*Hospitals	1 per 3 beds
*Convalescent, nursing and rest homes	1 per 6 beds plus 1 per each staff member on duty on a maximum shift
*Churches, mortuaries and funeral homes, auditoriums, and other enclosed places of assembly	1 per 5 fixed seats, or 1 per 100 lineal inches of bench-type seating, or 1 per 100 square feet of gross floor area used for assembly purposes
*Public facilities, including libraries, police and fire stations	To be determined by the planning commission
*Schools, elementary and junior high, public, private or parochial	1 per each employee and each faculty member and 1 per 6 seats of assembly area
*Schools, colleges, high, public, private or parochial	1 per 15 students, plus 1 per each employee and faculty member and 1 per every 4 seats of assembly area
Retail, commercial and office buildings	One space/200 square feet plus adequate employee parking and;

	at least one space for each employee at work during peak periods.
Industry and Warehouse	One space/500 square feet
*Restaurants.....	1 per every 3 persons based on occupancy load
*Drive-in restaurants	1 per employee on maximum working shift and 1 per 100 square feet total floor area
*Shopping centers	1 per 300 square feet of gross floor area
*Theaters	1 per 3 seats
*Skating rinks	1 per 100 square feet of gross floor area
*Racquetball, handball and tennis courts, including accessory uses	1 per 40 square feet of assembly area plus 2 per court
*Manufacturing uses, research and testing laboratories, assembly plants and similar industrial uses not including office space 1 per employee on maximum working shift	
*Any use not addressed in this table	To be established by the planning commission

600.06 LOADING SPACE REQUIREMENTS

Off-street loading space(s) having access to a public right-of-way shall be required adjacent to each business building hereafter erected or enlarged if the use of such building entails deliveries or shipments to or from it. Such loading space(s) shall be adequate size to accommodate the number and size of vehicles simultaneously loaded or unloaded in connection with the business conducted in such building. No part of a truck, trailer, or van shall extend into the public right-of-way while using the loading space.

600.07 JOINT USE PARKING

The planning commission at a public meeting may authorize the joint use of parking facilities required by this chapter. Off-street parking for primarily nighttime uses such as theaters, bowling alleys, restaurants and related uses may be supplied by certain other daytime types of uses such as banks, offices, retail businesses, personal service shops and related uses.

Applications for utilization of joint use parking facilities may be approved by the planning commission provided the following conditions are met:

1. ~~1.~~—The parking facilities shall be within 500 feet of the principal buildings involved unless other transport is provided.
2. ~~2.~~—Joint use parking agreements shall not account for more than 50 percent of required off-street parking spaces.
3. ~~3.~~—The applicant shall show that there is no substantial conflict in the principal operating

hours of the two buildings or uses for which a joint use of off-street parking facilities is proposed.

~~4.4.~~ The applicant shall execute among all parties involved a properly drawn joint-use parking agreement which is approved as to form and manner of execution by the city attorney.

5.4.

Following approval of such agreement by the planning commission, the agreement shall be recorded with the county auditor and filed for permanent record in the city hall.

600.08 COMPACT CAR ALLOWANCE

A maximum of 30 percent of the total required off-street parking spaces may be permitted and designated for utilization by compact cars. Each compact car space shall be designated as such. Dimensions of compact parking spaces shall conform to the standards as depicted in Table 600.A, Off-street Parking Area Dimensions, of this chapter.

600.09 OFFSTREET PARKING FACILITIES-INSTALLATION TIME LIMIT

The installation and improvement of required off-street parking facilities shall be completed to the required standards before a certificate of occupancy for a building is issued unless a time limit extension to a specified date is authorized by the Public Works Director.

600.10 PARKING LOT PLAN-FILING REQUIREMENTS

Detailed plans of off-street parking areas indicating the proposed development shall be filed with the Public Works Director for review. These plans shall include the location, size, shape, design, curb cuts, methods of onsite drainage, adjacent streets, circulation of vehicular and pedestrian traffic, ingress and egress, parking lot lighting and other features and appurtenances of the proposed parking facility. In addition, finished grades shall be required for all paved parking areas and shall be indicated on the plans submitted.

600.11 OFFSTREET PARKING-AUTHORITY TO WAIVE OR MODIFY REQUIREMENTS

The board of adjustment may, by formal action at a public meeting, waive or modify the requirements set forth in this chapter establishing the number of required parking spaces. It shall be the responsibility of the applicant to provide the board with sufficient evidence to identify good cause for such reduction or waiver.

600.12 REQUIRED BICYCLE STORAGE

Bicycle storage spaces shall be provided in conjunction with all multiple family dwelling units (three or more units) at the rate of one space/unit. Each space shall be a minimum length of six feet, a minimum width of two feet and shall be provided with a minimum overhead clearance of seven feet.

In commercial districts, bicycle storage spaces shall be provided in conformance with the requirements of the administrator.

600.13 DISABLED PARKING SPACES

Disabled parking spaces shall be provided in accordance with the Uniform Building Code and ADA, whichever is more restrictive.

700 PARK STANDARDS

700.10 PLAYGROUND SURFACES

Playground surfaces shall be a poured in place rubber safety surfacing meeting or exceeding all of the requirements in the following ASTM standards: ASTM D624, ASTM D2859, ASTM E303, ASTM F1292, ASTM F1951, ASTM C1028, and ASTM D412. The system should consist of a dual durometer poured in place system with a wearing layer upper membrane and an underlying impact attenuation cushion layer. The finished surface should be porous and capable of being installed at varying thickness to comply with the Critical Fall Height requirements of the playground equipment specified. The cushion layer should be a mixture of black recycled SBR rubber buffings mixed with a 100% solids moisture cured MDI polyurethane binder or aliphatic (100 pounds of SBR rubber buffings to 12 pounds of binder) installed at the appropriate thickness. As an upgrade, or if recycled SBR rubber buffings are not available, 5/8" chunk rubber with correct amount of urethane for impact attenuation and longevity may be used. Chunk rubber shall not include SBR derived from rubber tires. It must be high quality pre-consumer recycled rubber containing EPDM. The cushion layer should be porous. The wearing surface should be manufactured from 1-4mm Thermoplastic Vulcanized (TPV) virgin colored rubber granules bonded by a binder, 100% solids moisture cured Polyurethane binder or aliphatic (110 pounds of TPV to 22 pounds of binder), and applied to a minimum thickness of ½" (12.7 mm) over the cushion layer. The color should be selected from Manufacturer's color chart by City prior to bidding/ordering materials. Pour in place surfacing shall be installed on a compacted sub-base material per manufacturer requirements.

700.20 PARK LIGHTING

All park lighting should be LED and "Dark Sky" compliant. Parking lots and internal park roadways should be lit to an average of 1-ft candle. Road intersections, pathways, cross walks, etc. should receive 1.5 to 2 times the normal roadway lighting level. Light poles should be powder coated metal or a stainless steel/non-corrosive metal finish. Pavilions, restrooms, and supporting park buildings/structures shall be lit to a minimum of 5-ft candles. Sports fields and courts shall be lit with sports field/court light fixtures that are LED, in a quantity and location to meet the needs of the sporting event with minimal light pollution. Special care shall be given when lighting is adjacent to residential homes. The light levels for a sports court should be an average of 30-ft candles and sports fields such as football, baseball, and soccer shall average 50-ft candles. The City shall approve the style of all lighting.

700.30 PARK BENCHES

Park benches shall be provided at the following minimum rate per acre:

<u>Size of park in Acres</u>	<u>Minimum quantity of Benches</u>
<u>1-3</u>	<u>2*</u>
<u>3-5</u>	<u>3*</u>
<u>5-10</u>	<u>5*</u>
<u>10+</u>	<u>8*</u>

*Note that in parks that provide a playground the minimum quantity of benches shall be increased based on the size of the playground and the number of kids/families likely to be at the park at any given moment.

Benches shall be Anova, Inc. Airi Leaf Series or approved equal and shall include the following:

- 6-ft Bench: Organically modern bench

- Seat Color: Textured Fern
- Frame Color: Textured Black
- Finish: Manufactures supplied finish for metal parts; powder coated
- Installation: Surface Mount and shall be secured to concrete pad.
- Concrete Pad: Bench area shall include a concrete pad directly beneath the bench and shall be ADA accessible.
- Material substitutes shall only be approved by the Public Works Director.
- An ADA accessible route shall be provided to the bench.

700.40 PARK PICNIC TABLES

Picnic tables shall be installed within a pavilion structure at the following rates per shape and roof type of structure.

The matrixes below provide an approximate number of the picnic table capacity for each shelter. Totals were calculated using a standard picnic table size of 5'x6'. Numbers are approximate and informational only.

Polygonal Shelters

Size	Hex.	Oct.	Dod.
16'	2	1	
20'	4	4	
24'	5	4	
28'	7	5	
32'	8	8	
40'	14	14	16
48'	22	22	
50'			27
58'	34	36	
60'			41
64'	42	47	
66'			52
86'			79

Hip Roof Shelters

	Width						
	12'	16'	20'	24'	30'	40'	50'
18'	2						
22'	3						
24'		6	7				
34'	5	8	10	12	16		
42'	6						
44'		12	14	18	20	30	
64'		16	22	25	32	42	56
84'			28	37	40	55	
104'				48	52	79	
70'							64
90'							81
110'							96

Gable Roof Shelters

		Width					
		16'	20'	24'	30'	40'	50'
Length	24'	6	6	9			
	34'	8	10	12	16		
	44'	12	14	18	20	30	
	64'			25	32	42	56
	84'			37	40	55	73
	104'				52	79	90

Square Shelters

	12'	16'	20'	24'	30'	36'	40'	50'
Tables	1	2	6	8	14	20	25	42

The picnic tables shall in general be the 4'x4' unless otherwise directed by the City. The tables shall be in compliance with the requirements of the Pilot Rock 4-ft square pedestal table with recycled plastic top and seats, Model #PQT3/P/G-4PC/U or approved equal and shall include the following:

- Surface mount base plat shall be 3/8"x15-3/4" steel base plate for bolting to a concrete pad.
- Table and Seat Top Manufactured of 100% recycled plastic. Color shall be Solid Cedar.
- Frame shall be steel, powder coated, color Black.
- Table shall have the umbrella hole in the table top with cup and collar.
- Concrete Pad: Shall include a concrete pad directly beneath the table and shall be ADA accessible.
- An ADA accessible route shall be provided to the tables/structure.

700.50 PLAYGROUNDS

Local Parks/Parklets

These parks are typically less than 1 acre in size. Playgrounds should be roughly 1,500-3,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 2 park benches shall be provided nearest the playground area.

Neighborhood Parks

These parks are typically between 1-5 acres in size. Playgrounds should be roughly 3,500-6,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 3 park benches shall be provided nearest the playground area.

Community Parks

These parks are typically between 5-10 acres in size. Playgrounds should be roughly 6,500-10,000 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 5 park benches shall be provided nearest the playground area.

Regional Parks

These parks are typically greater than 10 acres in size. Playgrounds should be greater than 10,000 square feet in size. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM F1487. A minimum of 10 park benches shall be provided. Location of benches shall be placed throughout the park with a minimum of 5 benches nearest the playground area.

Playground Equipment

All playground equipment installed in designated park spaces shall meet or exceed ASTM F1487-17 Standard Consumer Safety Specification for Playground Equipment for Public Use and Section 424-Children's Play Structures of the International Building Code. Equipment shall include various amenities that may include but not be limited to climbing, sliding, spinning, swinging, brachiating and balancing. Playground equipment shall be grouped for ages of 2-5 and 5-12 and shall be age appropriate. Equipment for the 2-5 age group should be situated near adult supervision and have adequate separation from the 5-12 age group equipment. An accessible route of travel shall be provided to the playground equipment meeting the most current edition of the ADA Standards for Accessible Design.

700.60 IRRIGATION SYSTEM

An automated irrigation system shall be designed and installed to provide industry standard irrigation supply and coverage to the vegetated park areas. Irrigation components/parts shall be manufactured by Hunter Industries and installed in accordance with the manufacturer installation requirements.

700.70 TRAILS/PATHWAYS

Park areas shall incorporate trails and/or pathways throughout the park area. Trails and pathways shall be ADA compliant.

700.80 SECURITY

Park areas shall incorporate the necessary infrastructure for security cameras. Location of security cameras may include but not be limited to trail heads, parking lots, restrooms, and playgrounds. Coordinate with Public Works Director and Chief of Police for more specific security system requirements.



City of College Place

Standard Specifications & Drawings

Update Approved by City Council:

Contact Information

City Contacts:

City Engineer	(509) 394-8525
Public Works Director	(509) 394-8526

Utility Contacts:

Call before you Dig (One Call)	(800) 424-5555 or 811
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FORWARD

This document provides engineering specifications and standards for the City of College Place's Public Works Division, developers, contractors and homeowners engaged in construction or repairs within the City of College Place. The City requires all persons engaged in construction or repair efforts to abide by these specifications.

These specifications and standards are supplemented by additional standards adopted by the City of College Place City Council including Street Cut Restoration Standards.

In general, site development projects and plats submitted for approval by the City of College Place go through a two-step process. Project review begins with the submission of a preliminary plat or site plan to the Planning Department that provides enough information to allow the City to determine conditions of development. This review runs concurrently with any required State Environmental Policy Act (SEPA) processes. Supporting studies such as a stormwater design and a traffic impact analysis are also generally required at this stage. Once the preliminary plat or site plan is approved, construction plans are prepared.

Both site plans and construction plans need to be consistent with all City specifications and standards unless otherwise approved by the City Engineer.

There are a number of reminders to keep in mind:

- 1. Standard Specifications.** These specifications are College Places' uniform minimum standards. If there is a different type of material or method desired which will result in a similar outcome, the Public Works Director may grant a variance. Any request for variance shall be in writing and submitted to the Public Works Director for consideration.
- 2. Variances from Plans.** No variance from approved plans shall be allowed without the prior petitioning by the person(s) requesting the variance and the written approval of the Public Works Director. Variances may require City Council approval.
- 3. Inspections.** To ensure standard practices, inspection of work conducted within a public street or utility right of way shall be required in addition to all necessary permits. Failure to obtain a proper permit or arrange for timely inspections may result in rejection and removal of all or part of the work.

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City of College Place

Standard Specifications

000 GENERAL DEVELOPMENT SPECIFICATIONS

The following general requirements apply to developments in general:

*****REFER TO STANDARD PLAN No. 010.00*****

000.10 EXTENSION OF UTILITIES AND IMPROVEMENTS

Water, sewer and storm water facilities shall be extended to the furthest lot line on all streets within new subdivisions.

000.20 HALF STREET AND EXTENSION IMPROVEMENTS

Half street improvements (including sidewalks, planting strips, storm facilities, etc.) along with any additional street improvements (either side or supporting extensions leading to the improvements) deemed necessary to safely and effectively serve the subdivision or existing uses are required for those portions of a sub-division located exclusively on one side of a street. Full street improvements shall be required for all other streets.

000.30 PRIVATE FACILITY ADA CERTIFICATION

With the exception of stand-alone single family homes and duplexes, a professional engineer licensed to practice in the State of Washington shall certify (stamped) that sidewalks, parking lots and access facilities are compliant with the American Disabilities Act (ADA).

100 STREET SPECIFICATIONS

100.01 GENERAL STREET SPECIFICATIONS

This document is intended to provide use and construction standards for City streets based on classification. The purpose is to provide a description of the types of traffic and transit use on each type of street and guide how future street improvement projects and land use development relate to each classification. The goal is to provide efficient movement of people and goods while preserving and protecting the quality of life for all residents in the City of College Place.

Classifications are historically developed through Federal and State transportation agencies, which have financed, developed and guided transportation in the State of Washington. These agencies do not dictate precise standards but have general guidelines by which they operate and disburse transportation funds. There is substantial latitude for the individual Cities and agencies to fine tune standards to fit their individual needs. This document establishes these standards for the City of College Place.

The classifications include statements outlining the functional purpose, design and operational aspects along with the types of land use and development to be encouraged along the various street types.

Additionally, a number of related street section elements shall be included in each street section per College Place Municipal Code (CPMC) Section 14.90.040 to include:

- Sidewalks in every residential, industrial or commercial subdivision, and business park;
- A minimum five-foot wide landscape strip(s) on every side of a lot that abuts an arterial, collector, or local street in a residential subdivision; and
- Bike lanes in residential subdivisions on all collectors and arterial streets.

******REFER TO STANDARD PLAN No. 110.00******

100.02 CLASSIFICATION, DESCRIPTION AND DETAILS

REGIONAL CORRIDOR

Functional Purpose

A Regional Corridor is intended to provide for inter-regional and inter-community transportation. Examples are SR-125 and SR-12. A Regional Corridor should provide the highest possible capacity and express movement of longer distance trips.

Land Use and Development

Private and public developments of a regional significance should include shopping centers and major centers of employment. Developments of this significance should be encouraged to locate adjacent to Regional Corridors to reduce traffic on adjoining areas and streets. Automobile oriented commercial activities, which attract trips from throughout the cities, and areas should be encouraged to locate along a Regional Corridor.

Design Considerations and Traffic Operations

Design and traffic operations should serve through movement. A grade separation should be used whenever possible at the intersection between a Regional Corridor and another Regional Corridor or a Principal or Minor Arterial to facilitate through traffic on the Regional Corridor. Intersections between a Regional Corridor and a Principal or Minor Arterial should provide control of all turning movements. Signalization of the intersection should be a priority with respect to traffic warrants. Access to adjoining land uses should be limited to minimize disruption of traffic movement on the Regional Corridor. Adjacent land use should provide off-street parking with no curbside parking. Wherever possible, a buss pullout bay, or a bus lane should be provided along a Regional corridor to minimize disruption of traffic flow. The Regional Corridor should support inter-regional bus routes and high-quality local service.

Right-of-way, Template and Structure

Minimum right-of-way should be 100-ft. Lane width should be 12-ft. minimum with 5 lanes minimum. Four travel lanes and a center turn lane. Minimum pavement thickness shall be 4-in. with a base of 16-in. of crushed aggregate or the equivalent thereof. Sidewalks and curb and gutter are typically not indicated. These roads are typically state highways in our region under the jurisdiction of the State Department of Transportation, Region V.

PRINCIPAL ARTERIAL

Functional Purpose

A Principal Arterial is intended to serve as the major route for the movement of traffic within the City and for the Connection with neighboring cities. Examples are College Avenue and West Rose Street. A Principal Arterial should serve the major activity center of the City. Through traffic with no trip ends within the City should be encouraged to use Principal Arterials.

Land Use and Development

Major office or commercial developments, which attract trips from various neighborhoods throughout the City, should be encouraged to locate along Principal Arterials. Auto-oriented commercial should be encouraged to locate along Principal Arterials. High-density residential developments should be encouraged to locate along Principal Arterials to maximize usage of transit systems.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to traffic having at least one trip end within the City, rather than to through traffic. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Principal Arterials should provide all desired turning movement signals including an exclusive left-turn signal if warrants are met. A Principal Arterial should serve as an inter-city transit route and a major local transit route within the City. Wherever possible, a bus pullout bay, or a bus lane should be provided to minimize disruption of traffic flow. Transit oriented land use development located along a Principal Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. High priority should be given to underground placement of utility lines along all Principal Arterials. On-street parking is restricted and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Right-of-way should be 111-ft. Lane width should be 12-ft minimum with 5 vehicle travel lanes. Four travel lanes and a center turn lane. The center turn lane may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in. of crushed aggregate or the equivalent thereof.

*****REFER TO STANDARD PLAN No. 110.00, 110.01*****

MINOR ARTERIAL

Functional Purpose

A Minor Arterial is intended to provide concentrated access to neighborhood activity centers and to serve trips between neighborhoods. Examples are Larch Avenue and East 12th Street. A Minor Arterial should serve as a distributor of traffic from a Principal Arterial to Collector and Local streets. Through trips should not be encouraged on a Minor Arterial.

Land Use and Development

Neighborhood oriented commercial developments are encouraged to locate along a Minor Arterial as allowed by the Zoning Code. The density of the residential developments along a Minor Arterial should be encouraged to vary directly with the capacity of transit service available and as governed by Zoning Code.

Design Considerations and Traffic Operations

Design and traffic operation should give preference to local traffic rather than to through traffic. A Minor Arterial should not be designated as a truck route. The adjacent land use should provide adequate off-street parking to minimize or eliminate the dependency of curbside parking. Intersections between Minor Arterials should be signaled as warranted to facilitate the safe movement of traffic along each street as well as turning movements between such streets. Special care should be taken in the design of a Minor Arterial and intersections to provide safe and frequent pedestrian crossing opportunities. Transit oriented land use development located along a Minor Arterial should be encouraged to provide good pedestrian access between transit stops and such developments. A Minor Arterial should serve as a local transit route. On-street parking is restricted and, in most cases, prohibited. Driveway access is not permitted unless Council approval is obtained.

Right-of-way, Template and Structure

Minimum right-of-way should be 78 or 87-ft depending on whether 3 or 4 lanes as needed. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Capacity requirements will dictate whether all four lanes are needed. Lane widths should be a minimum of 11-ft. The center turn lane may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness of 4-in and a minimum base of 10-in of crushed aggregate or the equivalent thereof.

******REFER TO STANDARD PLAN No. 110.00, 110.02 & 110.03******

COLLECTOR

Functional Purpose

A Collector Street is to serve trips for the neighborhood. Through trips with no trip ends within the neighborhood should be discouraged on a Collector street. Examples are 4th Street and Date Avenue. A Collector Street is intended to serve as a distributor of traffic from Principal and Minor Arterials to Local Streets.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Collector Street. Neighborhoods serving commercial nodes are permitted along a Collector Street as governed by Zoning Codes.

Design Considerations and Traffic Operations

A Collector Street should not be designated as a truck route. A Collector Street should provide a connection to a Principal Arterial or to a Minor Arterial. Through traffic should be discouraged on a Collector Street. Traffic movement and access to abutting properties are equally important functions of a Collector Street. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances. Special care should be taken in the design of a Collector Street and intersections to provide safe and frequent pedestrian crossing opportunities. An environment conducive to pedestrian activities should be encouraged along a Collector Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 94-ft. Right-of-way may be reduced upon Public Works Director Concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 12-ft travel lanes are required with an 11-ft turn lane and/or median, a 6-ft bike lane and 2-ft buffer followed by an 8-ft parallel parking along each side. The center turn lane/median may be omitted, and lane widths modified based on concurrence of the Public Works Director with the findings of an approved Traffic Impact Analysis (TIA). Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Bicycle lanes and landscape strips are required in residential subdivisions. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

*****REFER TO STANDARD PLAN No. 110.00, 110.04*****

LOCAL

Functional Purpose

A Local Street is intended to serve only for neighborhood access to Collector Streets and Arterials. Through traffic should be discouraged. Local Streets initiate and terminate trips. Examples are local subdivision and neighborhood streets. Traffic movement and access to abutting properties are equally important functions of Local Streets. Therefore, parking removal or additional street widening should be undertaken only at specific problem locations or under special circumstances.

Land Use and Development

New land uses and major expansions of existing land uses, which attract a significant volume of traffic from outside of the neighborhood, should be discouraged along a Local Street. Special care should be taken in the design of a Local Street and intersections to provide safe and frequent pedestrian crossing opportunities. Only residential development should be encouraged on Local Streets.

Design considerations and Traffic Operations

A Local Street should not be designated as a truck route. An environment conducive to pedestrian activities should be encouraged along a Local Street.

Right-of-way, Template and Structure

Minimum right-of-way should be 63-ft. Right-of-way may be reduced upon Public Works Director concurrence to reflect required section elements with a 2-ft buffer maintained between the outermost street element (typically sidewalks) and the edge of right-of-way on each side of the street corridor. Two 10-ft travel lanes are required with 8-ft parallel parking along each side. Sidewalks are required and shall not be less than 6-ft in residential areas and not less than 10-ft where deemed essential for pedestrian traffic in commercial and industrial areas, schools, playgrounds, shopping centers, etc., unless otherwise approved by the city. Minimum pavement thickness shall be 4-in with a minimum base of 10-in of crushed aggregate or the equivalent thereof.

Elimination of parking on one or either side of the street shall only be considered under extenuating circumstances and requires the City to initiate the proposal based on their assessment of required infrastructure and current or anticipated public parking demand..

******REFER TO STANDARD PLAN No. 110.00, 110.05, 110.06 & 110.07******

100.03 STANDARD PUBLIC STREET SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal construction”, published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document. This is the process of tailoring the specification to the needs of the City.

100.04 PAVEMENTS

Pavement for City streets shall be HMA Class ½” PG64-28 in accordance with the most current edition of the WSDOT Standard Specifications. No light bituminous pavement methods shall be

allowed. Light bituminous surface treatments are allowed only for maintenance. Depth of pavement shall be as specified for each classification of street.

100.05 BASE ROCK AND ASPHALT TREATED BASE

Depth of base rock shall be as specified for each classification of street. Layering of rock gradations shall be as directed and approved by the Public Works Director. Asphalt treated base may be used as a structural equivalent. No alternative shall be used unless it has been approved by the Public Works Director. Use of construction fabrics shall be considered on a case by case basis. Some reduction in base materials may be allowed. Construction fabric may be required in situations involving unstable or highly erodible soils.

100.06 SUBGRADE

Subgrade shall be fully compacted native or imported materials. Imported materials must be approved by the Public Works Director prior to the placement thereof. Such materials shall be handled and placed in accordance with the Standard Specifications. Any situations involving unstable subgrade materials shall be corrected prior to placement of base material.

100.07 CURB AND GUTTER

Curb and gutter construction and retrofit work shall strictly be according to the City Standard Specifications and Plans. No rolled curb and gutter shall be allowed on any public street. Curb with no gutter is not permitted. Materials and placement shall be per the Standard Specification. Curb and gutter shall be placed on fully compacted subgrade with 4-in. minimum of compacted crushed rock between the subgrade and the bottom of the curb and gutter. The base rock shall extend a minimum of 12-in. behind the curb and gutter to assure a firm base. Driveway cuts and curb height transitions and wheelchair ramps shall be as per City Standard drawings. Curb radius shall be a minimum of 12-ft. When narrow streets are constructed, 15-ft. radius shall be used. Radii on arterial streets must be chosen to accommodate truck turning radius. Radii greater than 15-ft. may be required.

******REFER TO STANDARD PLAN No. 110.17, 110.18, 110.19 & 110.20******

100.08 SIDEWALKS

Sidewalks shall be a minimum of 6-ft in width in residential areas. Wider walks may be required in school and commercial areas. Materials and placement shall be per the Standard Specifications. All sidewalks shall be placed on fully compacted subgrades and on a minimum of 4-in. of compacted crushed surfacing top course. Use of asphalt concrete pavement may be allowed only by special approval of the Public Works Director. Any signs, utility poles, access lids or similar items placed in the sidewalk areas shall be isolated by separately poured concrete knock out

sections, properly fitted with expansion joint material. No single panel between approach or ramp wings shall be less than 4-ft. in width between wings.

*****REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15, 110.16, 110.17 and 110.18*****

100.09 DRIVEWAYS

Driveways shall be built to the same specifications as sidewalks but deepened to 6-in. of cement concrete. Driveway cuts, curb height transitions and wheelchair ramps shall be as per City Standard drawings.

1. Driveways shall be located at least 2-ft. from lot lines of adjacent lots except that Public Works Director may waive separation within ROW.
2. In residential subdivisions, the width of driveways at the curb on lots with at least 60 feet of street frontage shall not exceed 20 feet in width at the curb and back of the right-of-way provided that:
 - a. On lots with street frontage greater than 60 feet, the width of the driveway may be increased by 1 foot over the standard 20 foot width for every 3 feet of frontage over 60 feet, up to a maximum of width at the curb and back of the right of way of 30 feet.
 - b. On lots with less than 60 feet of street frontage, the driveway width at the curb may not exceed 12 feet;
 - c. The width of a driveway at its widest point shall not exceed the width of the driveway at the curb plus 4 feet; and
 - d. Driveway approach wings and pedestrian approach wings shall be separated by a minimum of 4 feet between the end of the wings.
3. In residential short plats, the width of driveways shall not exceed 20 feet at the curb and back of the right of way or 24 feet at its widest point.
4. A shared private driveway shall serve no more than two lots. Legally binding easements shall be prepared and obtained by the landowners and shall be of sufficient width to adequately serve private and public utilities, stormwater, and fire department access.

*****REFER TO STANDARD PLAN No. 110.11, 110.12, 110.13, 110.13A, 110.14, 110.15 & 110.16*****

100.10 STREET LIGHTING

For off-set concrete sidewalks, street lights shall be located a min. of 3-ft behind the back of concrete curb. For curb tight concrete sidewalks, street lights shall be located a min. of 2-ft behind the back of concrete sidewalk. Street lights shall not be set in the concrete sidewalk area. Street lighting spacing shall be 300-ft for local/residential streets and 150-ft for collector/arterials. Spacing shall be staggered opposite sides of the streets, except on curves where spacing shall be determined by the Public Works Director. All intersections shall have a minimum of (1) light. Additional lighting may be required by the Public Works Director along any given roadway.

Ornamental pedestrian lighting shall be placed as directed by the Public Works Director.

******REFER TO STANDARD PLAN No. 110.73, 110.74, 110.75, 110.76******

100.11 RECTANGULAR RAPID FLASHING BEACONS (RRFB)

RRFB's shall be used at areas with high volumes of pedestrian crossings with speed limits less than 40 miles per hour. Generally, RRFBs are used at specific school crossings, trail crossings and mid-bloc crossings. Actual determination of RRFBs and their locations shall be determined by the Public Works Director. RRFBs shall be placed on both sides of a crosswalk below the pedestrian crossing sign and above the diagonal downward arrow plaque pointing at the crossing. The flashing pattern shall be activated with pushbuttons or passive (e.g., video or infrared) pedestrian detection and should be unlit when not activated.

The use of hard-wired RRFBs should be utilized versus solar powered RRFBs. Solar powered RRFBs may be allowed under special circumstances as approved by the Public Works Director. The City reserves the right to use RRFBs for locations with significant pedestrian safety issues.

RRFBs shall not be used without the presence of a pedestrian, school or trail crossing warning sign. RRFBs shall not be used for crosswalks across approaches controlled by Yield signs, Stop signs, traffic control signals or pedestrian hybrid beacons, except for the approach or egress from a roundabout.

******REFER TO STANDARD PLAN No. 110.80******

100.12 PAVEMENT MARKINGS

General

Pavement markings shall be provided as required and needed in accordance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD) and as directed by the Public Works Director.

All pavement markings shall be painted using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director.

Traffic Arrows

Traffic arrows shall be painted white using Low VOC Solvent Based Paint in accordance with section 9-34 Pavement Marking Material of the most current edition of the WSDOT Standard Specifications unless otherwise directed by the Public Works Director. Traffic arrow size shall conform with the City of College Place existing arrow painting template. Arrow size shall be 6-ft long x 3-ft wide. Contractor shall coordinate with the City of College Place for traffic arrow template sizing.

Bicycle Lanes

When directed by the City, bicycle lanes shall be green MMA colored. Refer to Section 1520.05 Additional Bicycle Design Requirements and Considerations of the WSDOT Design Manual for additional information. Bicycle lanes shall be striped in accordance with the latest edition of the MUTCD.

100.13 CONDUITS

General

Arterial and Collectors streets shall include underground electrical grade conduits at the 4-legs of an intersection. Residential and local streets will generally not require underground electrical grade conduits at the 4-legs of an intersection unless it has been determined by the Public Works Director. Missile boring and/or micro-borings are not allowed.

*****REFER TO STANDARD PLAN No. 110.78, 110.79*****

200 WATER SYSTEM SPECIFICATIONS

200.01 WATER MAINS

All water mains shall, at a minimum, meet the criteria of AWWA Standard C151. 12-in and smaller lines shall be Class 50 ductile iron with Class C104 cement mortar lining with all joints mechanically restrained. Pipe joints shall be restrained using TR-flex or Flex Ring ductile iron pipe or by using Field Lok or Fast-Grip gaskets. The gaskets used shall be manufactured by the manufacturer of the pipe being used and shall be recommended by the manufacturer for the application. Water lines larger than 12-in shall be ductile iron pipe Class 52.

The Public Works Director and/or the City Engineer shall determine the sizes of all water mains. A smaller diameter water main may be allowed if the main is placed within fully platted cul-de-sacs where the pipeline does not exceed 400-ft and does not continue through the cul-de-sac to connect with another existing water main. Where a public right-of-way is not available, permanent, exclusive City utility easements shall be obtained with a 20-ft. minimum width. All water mains shall be located within appropriate public access to allow for maintenance. There shall be a minimum of 30-in cover material over all water mains. All water pipes including mains and service lines shall be fitted with a copper, 12-gauge locator wire.

*****REFER TO STANDARD PLAN No. 210.00, 210.01*****

200.02 FIRE HYDRANTS

GENERAL SPECIFICATIONS

Fire hydrants installed within the City of College Place shall meet all standards as set forth in this chapter, the City of College Place Standard Specification Plans & AWWA Standard C502.

Manufacturer Specifications

- ☐ Manufactured in accordance with AWWA Standard C502
- ☐ 5-1/4-in. MVO (Main Valve Opening)
- ☐ 2, 2-1/2-in. Hose Ports
- ☐ 1, 4-1/2-in. Pumper Port
- ☐ Dry barrel
- ☐ Center stem operation
- ☐ 2, Drain ports

Approved Manufacturer Brands

- ☐ Mueller Centurion
- ☐ Clow Medallion

- ❑ MH 929
- ❑ Waterous Pacer (AFC WB 67-250)

******REFER TO STANDARD PLAN No. 210.00, 210.02 - 210.04, & 210.09 - 210.11 ******

Special Pumper Nozzle

Fire hydrants shall be installed with a Storz coupling and cap on the 4-1/2-in pumper port enabling the hydrant to accept 5-in hose.

Storz Specifications

- ❑ 5-in Storz metal face adapter x female hydrant thread. Material shall be 60061-T6 aluminum alloy, forged or extruded, no cast parts. Finish shall be hard coat anodize to mil A-8625c. Dimensional requirements as follows.
 - Overall diameter not to exceed 7-3/4-in.
 - Overall length not to exceed 4-1/4-in.
 - Shall fit National Standard Thread.
 - Shall be supplied with two (2) 14-20 holes drilled and tapped, 180 degrees apart through female thread, to lock adapter to hydrant.
 - Any required sealant shall be supplied with each coupler.
- ❑ The 5-in. Storz cap material shall be 6061-T6 aluminum alloy, forged or extruded, no cast parts. Dimensional requirements as follows.
 - One seal to be nitrile/vinyl rubber, suction style for zero leakage, color to be gray.
 - 1/8-in. vinyl covered aircraft cable, 18-in. minimum length to be attached to the cap & adapter.
 - Force to connect or disconnect to be a minimum of 18-ft./lbs., maximum of 30-ft./lbs.
 - Outside diameter not to exceed 7-3/14-in.
 - Overall length not to exceed 2-in.
 - Shall meet or exceed NFPA standard 1901.

******REFER TO STANDARD PLAN No. 210.04******

200.03

VALVE RISER & BOXES

Valve Box Riser & Cover

The valve riser box shall be centered and fit over the valve-operating nut. It shall be extended to the finished grade surface. Any debris in the valve riser shall be removed prior to job completion. All valve boxes shall be cast iron in structure with a cast iron ring. The cover shall be cast iron and shall be stamped "WATER." The valve box shall be Tyler Union Series 6855 or an approved equal.

******REFER TO STANDARD PLAN No. 210.00, 210.02, 210.03 & 210.08******

200.04 WATER METERS

Water meters typically range in size from Full ¾-in. to 2-in. depending on application. All water meters shall be Metron-Farnier with Innov8 heads. 1-1/2-in. and larger meters shall be determined by application. The minimum size for a residential meter is Full ¾-in. A larger size may be appealed to the Public Works Director. The sizing of water meters will be evaluated and approved by the Public Works Director. All water meters shall register in gallons. The meter register shall be radio read and display from left to right registering in 1,000 gallons. Water meters shall not be placed in driveways. Water meters shall be placed 2-ft behind back of sidewalk.

200.05 METER BOXES

All meter boxes for 1" meters and less shall be plastic in structure. The complete meter box shall have three parts to its assembly. The bottom piece shall be an 18-in. mid-section. **PIPE SLOTS SHALL NOT BE USED.** The top piece shall be a 12-in. top section. The cover shall be a solid cast iron lid with a 9-1/4-in. x 5-1/2-in. lid opening. The lid shall be cast iron with a small oval shaped opening for a meter stick. Meter boxes shall be Mid-States 1324 or an approved equal.

City will provide and install meter box and meter. Coordinate with City staff to schedule installation.

******REFER TO STANDARD PLAN No. 210.00, 210.06, 210.07, 210.21 & 210.22 ******

200.06 SERVICE LINE PIPE

All service lines shall be a minimum of 1-in. in size. The material used for 1-in. service piping shall be either Type K copper or CTS (Copper-Tube Size) Polyethylene Pipe. Service lines larger than 1-in. shall be constructed with CTS Polyethylene Pipe or Type K copper. If Polyethylene Pipe is used, a stainless steel insert shall be placed at each connection and No.12 solid copper tracer wire must be placed along the pipe from the main to the top of the meter box.

******REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 ******

200.07 SERVICE LINE INSTALLATIONS

The City of College Place does not allow direct taps to water mains. The City requires the installation of a tapping saddle. Tapping saddles with 1-in. taps may be single strap service saddles. Tapping saddles with taps larger than 1-in. shall be a double strap. Single strap saddles shall be ROMAC 101S or an approved equal. Double strap saddles shall be ROMAC 202S or an approved equal. Saddles shall be placed on the water main with the tap set at a 9 or 3-o'clock orientation to the water main. The corporation stop shall be placed into the saddle with the valve key facing up. Polyethylene shall be laid with slack in the line to allow for contraction and elongation due to temperature changes. Copper shall have a slight lateral curve from the corporation stop to the meter setting. Bedding of service lines shall be in accordance with the bedding specifications. The

top to the meter setting shall be no less than 16-in. from ground level and no more than 22-in. from finished grade.

*****REFER TO STANDARD PLAN No. 210.00, 210.01, 210.05 & 210.06 *****

200.08 SERVICE AND METER BRASS

All brass shall be either Ford or Mueller. A description of the fitting will be more useful than the product number when approval is being sought from the City.

CORPORATION STOPS

All corporation stops shall be ball valve type with MIPT (Male Iron Pipe Thread) x CTS (Copper Tube Size) compression fittings.

ANGLE BALL VALVES

All meter shut off valves shall be ball valves. Depending upon application, the following angle ball valves may be used.

Ball Valve Types Allowed

- ☐ 1-in. FIPT (Female Iron Pipe Thread) inlet with meter swivel nut outlet.
- ☐ 1-in. Compression inlet with meter swivel nut outlet.
- ☐ 1-1/2-in. & 2-in. FIPT (Female Iron Pipe Thread) inlet with meter flange outlet

ANGLE CHECK VALVES

Check Valve Types

- ☐ 1-in. meter swivel nut inlet with FIPT or compression outlet
- ☐ 1-1/2-in. & 2-in. meter flange inlet with FIPT or compression outlet

200.09 MAINLINE VALVES

GENERAL SPECIFICATIONS

All valves shall open by turning counterclockwise. All underground valves shall have a 2-in. square-operating nut. All valves shall be rated and tested at 150 lbs. working pressure or greater. All valves shall be bolted to fittings whenever possible. All valves shall be equal to the water main size they are attached to.

GATE VALVES

Gate valves shall be used for all valves up to 8" valves and may be used for valves up to 12". All gate valves shall be resilient wedge gate type valves and shall be manufactured according to AWWA Standard C509-87.

BUTTERFLY VALVES

Butterfly valves may be used for valves 10" and greater. Any valve larger than 12-in. shall be a butterfly valve. All butterfly valves shall be manufactured according to AWWA Standard C509-87.

VALVE PLACEMENT

Valves shall be spaced and system pipelines looped so that no more than one block is deprived of service in the event of a shutdown of any pipeline segment to which customers are connected. In addition, lengths of pipe without valves shall not exceed 500-ft. in school, commercial, or multi-family areas and 600-ft. in residential areas. At any tee connection, all legs of the tee shall be valued. Fire hydrant tee assemblies may have only fire hydrant value.

******REFER TO STANDARD PLAN No. 210.00 - 210.03 & 210.08 *****

200.10 BEDDING

All pipes shall have 4-in. of crushed rock underneath for bedding and 6-in. of crushed rock above the pipe and across the entire pipeline ditch. This bedding requirement shall apply to all water mains and service lines. Bedding materials shall be per the Standard Specifications. The Public Works Director shall approve all other bedding material.

******REFER TO STANDARD PLAN No. 210.00, 210.02, & 310.08 *****

200.11 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used. This backfill requirement applies to all water mains and service lines.

******REFER TO STANDARD PLAN No. 210.00, 310.08*****

200.12 SUB-DIVISION REQUIREMENTS

All developers of sub-divisions shall be required to install all water appurtenances according to the Water System Specifications contained in this document. It shall be the developer's responsibility to bear the cost of all water-related installations.

On newly poured curbs, the capital letter "W" shall be stamped on the top to the curb, while the concrete is still wet, where the service lines cross under the curb. A treated 2 x 4 wood stake shall be placed over the service stub past the meter box for location purposes. All lots shall have individual water services. Water services to individual lots shall be placed at a property corner on the street side of the lot a minimum of 2-ft from backside of sidewalk and no more than 5-ft of the property line.

*****REFER TO STANDARD PLAN No. 210.00, 210.01 & 210.06 *****

200.13 PRESSURE CONTROL VALVES

All pressure control valves shall be Clayton control valves (Cla Valves). All applications shall be reviewed and approved by the Public Works Director before installation is allowed.

200.14 FITTINGS

All fittings shall meet AWWA standards. Class 350 Ductile Iron SSB fittings are allowed. Cast (Gray) Iron fittings meeting AWWA Standard C110 are allowed.

200.15 FIRE HYDRANT PLACEMENT

Wherever possible, fire hydrants shall be located at street intersections, and located to minimize the hazard of damage by traffic. All fire hydrants shall have an isolation valve located at the water main. A minimum 6-in. diameter lateral pipe and isolation valve is required for connecting hydrants to the main line. Where hydrants are located more than 50-ft. from an 8-in. or larger main, a minimum 8-in. diameter lateral pipe and isolation valve is required. Fire hydrants shall stand plumb and be set to finish grade. The bottom of the lowest outlet of the hydrant shall be no less than 18-in. above finished grade. Fire hydrants shall be installed with a minimum of a 3-ft. unobstructed radius around the hydrant. Hydrants shall be aligned so that pumper ports face toward the road or most probable route of access of the fire truck. Hydrants shall be placed a minimum of 3-ft behind the back of curb with an off-set sidewalk. Hydrants shall be placed 2-ft behind the back of sidewalk with a curb tight sidewalk. If there is no curb protection for the hydrant then hydrant guard posts shall be installed around the hydrant with a 3-ft minimum clearance. A minimum of 2 hydrant guard posts shall be installed on the side facing the street.

Hydrant Spacing

- | | |
|---|--------------------|
| ☐ Urban Residential less than ¼ acre | 330-ft. separation |
| ☐ Suburban Residential ¼ acre to 1 acre | 660-ft. separation |
| ☐ Commercial/Industrial and Multi-Family | WAC 246-293 (DOH) |

The above classifications are general in scope. The Fire Marshal and Public Works Director may impose more restrictive requirements.

*****REFER TO STANDARD PLAN No. 210.00 – 210.04 & 210.09 – 210.11 *****

300 SANITARY SEWER SPECIFICATIONS

300.01 GENERAL SANITARY SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest edition of the “STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction” published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document.

Sewer main extensions shall be governed by Article V “Sewer Main Extensions” Sections 13.08.260 through 13.08.305 of the College Place Municipal Code. Plans shall be submitted with the seal of a Washington Professional Engineers Stamp.

Sanitary sewer less than 8-in. diameter will not be accepted for City maintenance. Only privately maintained sewers may be less than 8-in.

300.02 APPROVED MAINLINE MATERIALS (8-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ Others only as approved by the Public Works Director

300.03 APPROVED SERVICE LATERAL MATERIAL (4-in. MAXIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35
- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM F 789
- ☐ ABS (Acrylonitrile-Butadiene-Styrene) pipe (private lines only)

PVC pipe joints shall conform to ASTM D 3212 using restrained gasket conforming to ASTM F 477.

*******REFER TO STANDARD PLAN 310.00, 310.04, 310.05, 310.06 & 310.08*****

300.04 BEDDING

All sanitary sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill on compacted bedding at a minimum of every 100' and at manhole terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Sanitary pipe and manholes subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17.

The bedding under pipe and manholes shall be compacted prior to pipe and manhole placement to provide uniform support along the entire length of the pipe and under manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 310.00 – 310.03 & 310.08 ******

300.05 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN 310.00 & 310.08******

300.06 CLEANING, TESTING AND MARKING

All pipes shall be tested by application of an air pressure test in accordance with the Standard Specifications 7-17.3(2) E or F as applicable. Cleaning and removal of any rock in the sewer is required. After cleaning, the City shall be notified to observe TV inspection (performed by Contractor or their assignee) of all lines 8-in. and larger. Any work failing air test and or TV

inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

Lateral side sewer services must be marked with a No. 12 solid copper locator wire and the ends, marked with buried steel fence post extended above the ground at least 3 feet. The locator wire shall be tied around the main line and extended along the side sewer and up the marker post.

******REFER TO STANDARD PLAN 310.00, 310.05 & 310.06 ******

300.07 MANHOLES

Manholes shall be provided at all angle points. Points of grade change and at the ends of sewer main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes shall be constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast materials cannot be used, sand collars and grout seal or similar transitions shall be used where the pipe is connected to the manhole. All joints must be watertight. Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Pre-cast bases shall be set level on a minimum of 6-in. of well compacted crushed aggregate. Manhole barrel sections and riser rings shall be sealed watertight with mastic. All sewer manholes shall be sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be pressure tested when seasonal high groundwater is over 3' from high from the base.

Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

******REFER TO STANDARD PLAN 310.00 – 310.04 & 310.07******

300.08 SEALING-MANHOLES

Manhole barrel sections and riser rings shall be sealed watertight with mastic. In addition, all manholes subjected to groundwater shall be sealed with city-approved sealant on the exterior from the base to 3' above the seasonal high groundwater level and shall be vacuum tested when seasonal high groundwater is over 3' high from the base. The structure will be tested in accordance with ASTM-C 1244-93 as follows:

- A. All lift holes and pipes entering into the manhole will be plugged, taking care to securely brace each plug from being drawn into the structure.
- B. The test head will be placed at the top portion of the structure in accordance with the manufacturers' recommendations.
- C. A vacuum of 10 inches of mercury will be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. With the valves closed, the time will be measured for the vacuum to drop by 1 inch to 9 inches. The manhole will pass the vacuum test if the time is greater than the time shown in Table 1.
- D. If the manhole fails the initial test, necessary repairs will be made by an approved method. The structure will then be retested until a satisfactory test is obtained.
- E. If the manhole joint is displaced during the vacuum test, the manhole will be disassembled, the seal replaced, the structure reassembled, and retested until compliance is obtained.
- F. Testing can be done either before or after backfill operations around the structure; however, if during backfill operations it is found that the structure has been disturbed and it is suspected that the integrity of the joint has been compromised, retesting will be required.
- G. Table 1 below gives allowable time loss in seconds; i.e., test section is acceptable if vacuum does not drop below 9 inches until after the times shown below have expired.

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
8	11	12	14	17	20	23	26	29	33
10	14	15	18	21	25	29	33	36	41
12	17	18	21	25	30	35	39	43	49
14	20	21	25	30	35	41	48	51	57
16	22	24	29	34	40	46	52	58	67
18	25	27	32	38	45	52	59	65	73
20	28	30	35	42	50	53	65	72	81
22	31	33	39	46	55	64	72	79	89
24	33	36	42	51	59	64	78	87	97

Table 1: Minimum Test Times for Various Manhole Diameters

Depth (ft)	Diameter in Inches								
	30	33	38	42	48	54	60	66	72
	Time in Seconds								
26	36	39	46	55	64	75	85	94	105
28	39	42	49	59	89	81	91	101	113
30	42	45	53	63	74	87	98	108	

(Reference: City of Olympia Engineering and Development Standards, 2013)

*****REFER TO STANDARD PLAN No. 310.00 & 310.07 *****

300.09 SERVICE LATERALS

Sewer service laterals for single family residential dwellings shall be 4-inches and have a minimum slope of 2.0% slope.

Sewer service laterals shall be 6-inch or larger for multi-tenant buildings or collect flows for multiple 4-inch service lines servicing separate dwellings.

Sewer service laterals shall be 6-inch or larger for commercial and multi-tenant buildings unless approved by the Public Works Director.

300.10 CLEANOUTS

Cleanouts are required on service laterals as required to meet the following:

- At each 90° elbow (note required if two 45° elbows are used).
- When a total of 135° bends have been made in the installation
- Not more than 100-ft of line can run without a cleanout being installed
- A cleanout will be required where the connection is made near the building unless an existing cleanout already exists just outside or just inside the foundation or basement.
- A cleanout is required immediately downstream of the sewer backflow device if a backflow device is required.
- All cleanouts shall be the same size as the lateral they serve.

401 STORM SEWER SPECIFICATIONS

401.01 GENERAL STORM SEWER SPECIFICATIONS

The base specifications for the City of College Place shall be the latest addition of the "STANDARD SPECIFICATION for Road, Bridge, and Municipal Construction" published by the Washington State Department of Transportation and the American Public Works Association. This shall be the guide for the control and quality of materials and their placement into the work. Minor changes and details may differ as per this document.

401.02 MANHOLE-BASED STORMWATER COLLECTION SYSTEMS

Stormwater collection systems shall route stormwater from individual catch basin inlets to manholes. Stormwater shall not be routed by means dependent upon surface elevations subject to change due to road resurfacing or chip sealing.

401.03 APPROVED MAINLINE MATERIALS (10-in. MINIMUM)

- ☐ PVC (Polyvinyl Chloride) plastic pipe ASTM 3034 SDR-35 (pipe laying length shall not exceed 14-ft)
- ☐ HDPE (High-Density Polyethylene) smooth bore, annular ring pipe meeting ASTM F 667.
- ☐ Others only as approved by the Public Works Director.

401.04 MINIMUM SIZE OF STORM SEWERS

The minimum diameter of any public storm sewer pipe in the City of College Place shall be 10-in. Smaller sizes may be approved by the Public Works Director. Storm lines shall maintain a minimum 2.5 fps velocity at design flow and 3 fps flowing full.

401.05 BEDDING

All storm sewer pipe **shall be fully bedded with a minimum of 4-in. under the pipe and a minimum of 6-in. over any pipe.** Bedding materials shall be crushed rock as per the Standard Specification. The Public Works Director shall approve all other bedding materials prior to use. Elevations and distances between elevations shall be provided to the City by a registered surveyor or professional engineer after bedding pipe, prior to backfill, on compacted bedding at a minimum of every 100' and at manhole and curb inlet (catch basin) terminations. Sewer pipe grade shall correspond to approved plans and in no case shall be less than 0.4%.

Pre-cast manhole bases and curb inlets (catch basins) shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Stormwater pipe, manholes and curb inlets subjected to groundwater shall be placed on 4-in. of crushed rock bedding over 12" of Class B foundation rock separated by filter fabric as per Standard Specification 9-03.17 and City Standard Plan 310, Sections 16 & 17.

The bedding under pipe, curb inlets and manholes shall be compacted prior to pipe, curb inlet and manhole placement to provide uniform support along the entire length of the pipe and under curb inlets and manholes. Only pipe bedding material shall be in contact with the sanitary sewer pipe, curb inlet or manhole. Any ditch run gravel, asphalt or concrete chunks or similar materials shall be removed.

Should the Public Works Director determine the native material is unsuitable for supporting pipe or manholes, the material shall be removed and foundation material Class B shall be imported and placed as outlined in WSDOT technical specifications 9-03.17 or by the Public Works Director.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.06 BACKFILL

The use of native backfill may be used if approved by the Public Works Director. Compact to 95% modified proctor density before proceeding to placement of base rock and paving. Laboratory testing shall be performed to determine maximum modified proctor density for native fill. Import fill requires supplier proctor test results. If native fill is unsuitable as determined by the Public Works Director, gravel backfill per the Standard Specifications 9-03.12(3) or other granular material approved by the Public Works Director shall be used.

******REFER TO STANDARD PLAN No. 410.00 & 310.08******

401.07 CLEANING AND TESTING

The Public Works Director may require the application of an air pressure test on any storm sewer pipes per Standard Specifications 7-04.3(1) E or F as applicable. Cleaning and removal of any rock is required. After cleaning, the City shall be notified for TV inspection of all storm sewer lines. Any work failing an air test and or TV inspection must be repaired and re-tested for City approval. The Public Works Director or his designee must witness, verify, and record all tests.

******REFER TO STANDARD PLAN No. 410.00 & 410.01 – 410.07******

401.08 MANHOLES & CURB INLETS (CATCH BASINS)

Manholes shall be provided at all angle points. Points of grade change and at the ends of storm main line runs. Clean-outs on mainlines shall not be permitted. Maximum distances between

manholes shall be 350-ft. Manholes shall not be less than 48-in. inside diameter. Trunk lines and special applications may require larger sizes. No grade or alignment changes shall be permitted between manholes. Deviation from this requirement without prior approval of the engineer will be grounds for non-acceptance of the work.

Manholes with PVC connections are typically constructed of all pre-cast components with "A-lok" (or approved equal) pipe gaskets. Where pre-cast manholes are not required, sand collars with grout seal or similar transitions shall be used on PVC pipe where the pipe is connected to the manhole. HDPE pipe connections to the manhole may be grouted ("A-lok" and sand collars not required). Channelization must be adequately sized and conformed to allow entry of a TV camera into all lines.

Catch basins shall be placed to minimize flow of water by pedestrian sidewalk ramps and no more than 350 feet apart. Curb inlets (catch basins) with PVC line connections shall use sand collars with grout seal ("A-lok" also acceptable). Similar transitions may be used with Public Works Director approval. HDPE pipe connections to the curb inlets may be grouted (sand collars not required).

Bases shall be set level on a minimum of 6-in. of well-compacted crushed aggregate. Manholes shall have adequate room between the base and cone or flat top to perform maintenance, typically a minimum of 3-ft.

Adjustment rings above the cone or flat top shall not exceed 12-in. in stacked height.

******REFER TO STANDARD PLAN No. 410.00, 410.04 – 410.07******

401.09 SEALING-MANHOLES

Manhole sealing requirements for storm sewer facilities shall be the same as those for sanitary sewer facilities.

******REFER TO STANDARD PLAN No. 410.00******

410 STORMWATER FACILITY SPECIFICATIONS

The City of College Place's Stormwater Facility Specifications employ a stormwater facility certification process which provides the responsible design engineer with considerable latitude in design and construction of stormwater facilities. On projects that require stormwater facilities, the responsible engineer submits a stormwater report and a stamped Stormwater Design Certification (STD Plan 410.10) with plans submitted for review and then submits a Stormwater Facility Construction Certification (STD Plan 410.20) once the facility is constructed. A stormwater construction certification statement is also required to be placed on the record drawings.

In general, the City will accept and rely upon the professional engineer's certification; however, the City reserves the right to review the submittal for compliance.

During the development of individual lots, the permittee is required to certify that final grading on the lots will conform to the stormwater design.

410.01 PROFESSIONAL ENGINEER

Stormwater facility designs shall be prepared and sealed by a professional engineer licensed in the State of Washington.

410.02 DESIGN STANDARDS

Stormwater facilities shall be designed and constructed in accordance with the recommendations and guidance of the current edition of the Stormwater Management Manual for Eastern Washington (SMMEW) and the most recent update of the *City of College Place Stormwater Facility Standards*.

500 GRADING AND SLOPE SPECIFICATIONS

Cut and fill slopes exceeding a 4 (horizontal):1(vertical) slope and exceeding 8 ft. in height shall be subject to the following requirements except as permitted by the Public Works Director.

500.01 PROFESSIONAL ENGINEER

Cut and fill slope designs shall be prepared and sealed by a professional engineer licensed in the State of Washington (engineer-of-record) with demonstrated geotechnical experience acceptable to the Public Works Director.

500.02 DESIGN ELEMENTS

Slope designs shall be designed to meet all loading and surcharge requirements and shall incorporate 10-ft. minimum width benches allowing for vehicle access at no more than 10-ft. vertical intervals and a drainage/stormwater system meeting the requirements of City Stormwater Standards and the current edition of the Stormwater Management Manual of Eastern Washington. Fill slopes shall not exceed 2:1. Designs shall meet all requirements of the currently adopted IBC and IRC. The design shall include lift and compaction requirements as required by the engineer-of-record and shall incorporate long-term slope stabilization measures. Designs using plant-based stabilization measures shall include irrigation systems to establish vegetation. Set-backs from the slope, if any, shall be included in the design and shown on any approved construction plans and recorded plats.

500.03 PERFORMANCE ASSURANCE

Upon completion, slopes shall be certified by the engineer-of-record to meet, as constructed, the requirements and specifications of the design. Occupancy for structures above and below the slope shall not be permitted until all slopes and other improvements as noted in CPMC 14.10.070 A.2.a.(2) are recognized as complete by the City. Vegetation-related slope stabilization measure shall be financially guaranteed until certified to be established for unmaintained growth by a licensed arborist (or equivalent license) acceptable to the City.

600 PARKING LOT SPECIFICATIONS

These parking lot standards supplement CPMC 14.60.070. CPMC 14.60.070 shall govern in the event of a conflict between these standards and CPMC 14.60.070.

600.01 APPLICABILITY

Off-street parking and loading space shall be provided in accordance with the requirements of these specifications for all new development activities including the construction of new buildings, the expansion of existing buildings, changes of use, and/or changes to the terms and conditions of occupancy such as enlarging, moving or increasing capacity by creating or adding dwelling units, commercial or industrial floor space, or seating facilities, or by making alterations to parking areas..

600.02 GENERAL REQUIREMENTS

The provision and maintenance of off-street parking and loading facilities shall be a continuing obligation of the owner or sponsor of a use, so long as the use is in existence and so long as parking and loading facilities are required in connection with a given use.

With regard to pre-existing parking facilities, the following shall apply:

- a. A pre-existing use which does not have sufficient parking facilities to meet the requirements of this chapter may continue to operate with the parking deficiency so long as no enlargement or other change is made in the use, building size or which would require additional parking facilities;
- b. When a preexisting use is modified or enlarged so as to require additional parking facilities, these standards shall apply;
- c. When additional uses are placed on the same lot with the preexisting use or an enlarged lot of which the preexisting use lot is a part, standards shall apply only to the additional use.

600.03 DESIGN REQUIREMENTS

All required off-street parking and loading facilities shall be developed in accordance with the following:

All required parking spaces shall be located on the same site with the building they serve, unless:

- A shared or joint use parking agreement has been approved by the city; or
- A voluntary in lieu of payment to provide the required parking in a public or cooperative parking facility has been approved by the city; and/or
- The city makes a written finding that adequate on-street parking exists to reasonably serve the new development/use.

Minimum parking area dimensions shall be as in the Off-street Parking Area Dimensions table.

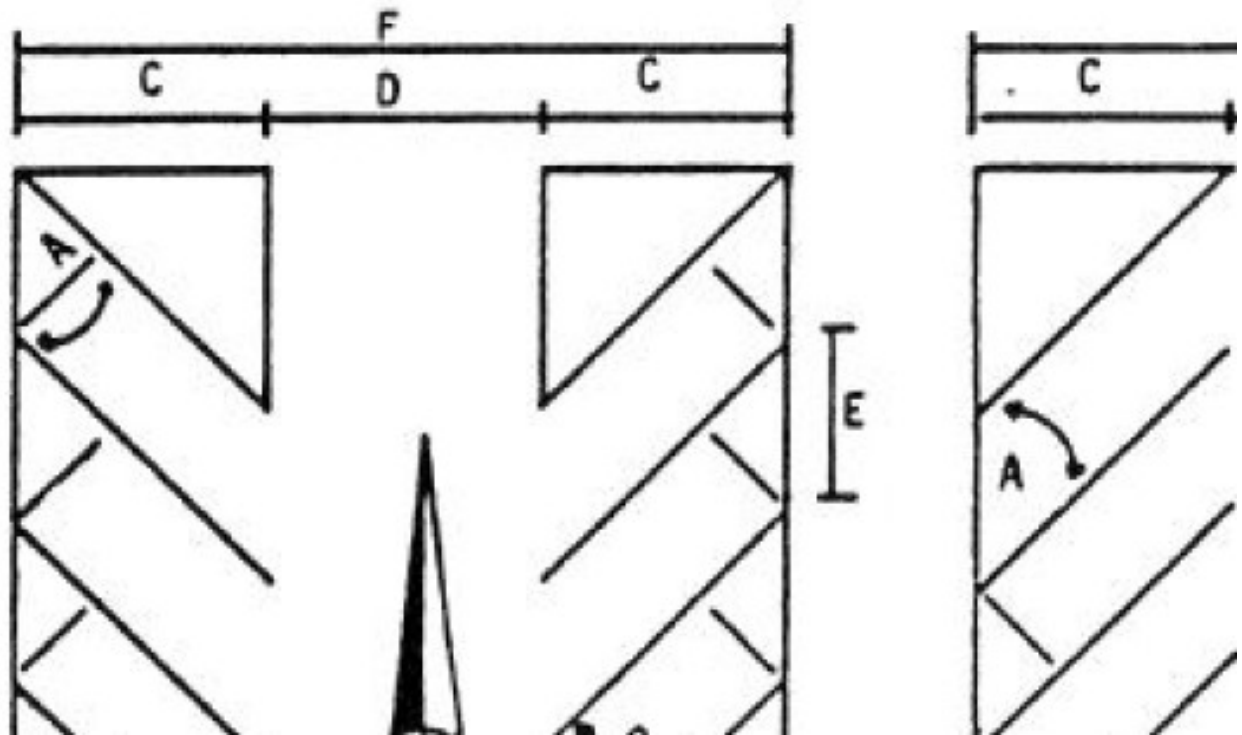
The slope of entrance and exit driveways providing access to public streets for off-street parking areas shall not exceed ten percent unless otherwise approved by the Public Works Director.

Driveways and Maneuverability

1. All required parking spaces shall be in usable shape and condition and adequate ingress to and egress from each space shall be provided without moving another vehicle.
2. Turning and maneuvering space shall be located entirely on private property unless specifically approved by the Public Works Director.
3. All parking spaces shall be internally accessible to one another without reentering adjoining public streets unless otherwise approved by the Public Works Director.
4. Ingress and egress to and from any off-street parking area shall not be located closer than twenty feet from point of tangent to an intersection or pedestrian crosswalk unless otherwise approved by the Public Works Director.
5. Separate ingress and egress may be required for smoother and safer flow of traffic.

TABLE 600.A Off-Street Parking Area Dimensions (Use in conjunction with Figure 600.A) (*Compact Stalls)							
A	B	C	D		E	F	
			Aisle Width			Unit Width	
Parking Angle	Stall Width	Stall Depth	One-Way Traffic	Two-Way Traffic	Curb Length Per Car	One-Way Traffic	Two-Way Traffic
0°	8.0*	8.0*			20.0*	28.0*	36.0*
	8.5	8.5	12.0	20.0	23.0	29.0	37.0
20°	8.0*	13.0*			23.4*	37.0	46.0*
	8.5	14.5	11.0	20.0	24.9	40.0	49.0
	9.0	15.0	11.0	20.0	26.3	41.0	50.0
	9.5	16.5	11.0	20.0	27.8	42.0	51.0
30°	8.0*	14.9*			16.0*	40.8*	49.8*
	8.5	16.9	11.0	20.0	17.0	44.8	53.8
	9.0	17.5	11.0	20.0	18.0	45.6	54.6
	9.5	17.8	11.0	20.0	19.0	46.6	55.6
40°	8.0*	16.4*			12.5*	44.8*	52.8*
	8.5	18.7	12.0	20.0	13.2	49.4	57.4
	9.0	19.1	12.0	20.0	14.0	50.2	58.2
	9.5	19.5	12.0	20.0	14.8	51.0	59.0
45°	8.0*	17.0*			11.3*	46.5*	54.0*
	8.5	19.4	12.5	20.0	12.0	51.3	58.8
	9.0	19.8	12.0	20.0	12.7	51.6	59.6
	9.5	20.1	12.10	20.0	13.4	52.2	60.2
50°	8.0*	17.4*			10.4*	47.3*	54.8*
	8.5	20.0	12.5	20.0	11.1	52.5	60.0
	9.0	20.4	12.0	20.0	11.7	52.8	60.8
	9.5	20.7	12.0	20.0	12.4	53.4	61.4
60°	8.0*	17.9*			9.2*	53.3*	55.8*
	8.5	20.7	17.5	20.0	9.8	58.9	61.4
	9.0	21.0	17.0	20.0	10.4	59.0	62.0
	9.5	21.2	16.5	20.0	11.0	58.9	62.4
70°	8.0*	17.8*			8.5*	55.1*	55.6*
	8.5	20.3	19.5	20.0	9.0	61.1	61.6
	9.0	21.0	19.0	20.0	9.06	61.0	62.0
	9.5	21.2	18.5	20.0	10.1	60.9	62.4
80°	8.0*	17.2*			8.1*	57.4*	53.4*
	8.5	20.2	23.0	24.0	8.6	63.4	64.4
	9.0	20.3	22.0	24.0	9.1	62.6	61.6
	9.5	20.4	21.0	24.0	9.6	61.8	64.8
90°	8.0*	16.0*			8.0*	56.0*	57.0*
	8.5	19.0	24.0	25.0	8.5	62.0	63.0
	9.0	19.0	23.0	24.0	9.0	61.0	62.0
	9.5	19.0	22.0	24.0	9.5	60.0	62.0

FIGURE 600.A



Surfacing Requirements.

1. All parking areas and facilities shall be paved with asphalt or concrete and shall be graded and shall conform to the City's Stormwater Facility Standards and the Stormwater Management Manual for Eastern Washington.
2. All traffic control devices such as parking stripes designated car stalls, directional arrows or signs, wheel stops, curbs and other developments shall be installed and completed as shown on the approved plans.
3. Paved parking areas shall use paint or similar devices to delineate car stalls, direction of traffic flow and pedestrian walkways.
4. Wheel stops shall be required on the periphery of all parking lots so that cars will not protrude into the public right-of-way, sidewalks or paths, off the parking lot, onto adjacent property or strike a building, fence, or landscaping. Wheel stops shall be three feet from the end of the stall for head-in parking. Wheel stops are not required for parallel parking or for diagonal or head-in parking against an 8-ft or wider sidewalk.

5. All parking areas, except those in conjunction with a single-family or two-family dwelling shall be graded so as not to drain storm water over the public sidewalk or onto any abutting public or private property.
6. Building permits shall be required for all parking lot construction, repair or resurfacing. Parking lot servicing shall not encroach upon the public right-of-way.

Lighting Requirements. Exterior lighting for all uses and signs shall be directed downward and otherwise arranged, shaded, screened, shielded, and of a design that results in the light being directed onto the site and of an intensity or brightness as follows:

1. So as not to interfere with the safe operation of motor vehicles, bicyclists, and other legal use of the roadway or sidewalk;
2. Maximum illumination at neighboring property lines shall not exceed 0.5 foot-candles at grade level;
3. Luminaries shall be aimed and shielded in a manner that shall not direct illumination on adjacent properties;
4. Full cutoff shielding is required for all luminaries to prevent wasted light up into the dark sky and prevent glare from normal viewing angles;
5. Shielding is required for luminaries located along property lines to prevent spill light onto adjacent properties; and

The city may require that the project sponsor submit a photometric plan and analysis to verify compliance with these standards.

Curb Cuts.

1. The number of curb cuts shall be kept to a minimum whenever possible so as to reduce the potential traffic flow conflict of vehicles and pedestrians.
2. All parking areas shall have specific ingress and egress areas to the street not exceeding width governed by 100.09 Driveways unless otherwise approved by the Public Works Director.
3. Joint-use or shared curb cuts shall be reviewed and approved and may be required by the Public Works Director.

Required parking spaces

1. Required parking spaces shall not be used for the permanent or semi-permanent parking or storage of vehicles or materials. Parking spaces are designed for use as temporary storage of employee, visitor or resident motor vehicles only.
2. All parking areas shall comply with the following landscaping provisions:
 - a. All required landscaping and landscaped buffers shall be designed by a qualified professional and submitted as a landscape plan in a format prescribed by the city, for review and approval.
 - b. Unless otherwise provided, all required landscaping shall be evenly distributed and shall consist of a mixture of hardy evergreen planted material including trees, low, medium and high-profile shrubs, together with suitable ground cover consisting of natural grasses, vines, bark mulch, and rockeries;
 - c. When plantings are used in screening or landscaping, they shall be compatible with area climate conditions and shall be provided with either a manual or automatic irrigation system;
 - d. The use of native plants and low water usage plantings is encouraged; and
 - e. All landscaping shall be placed and maintained in such a manner as not to impair vehicular visibility at parking area points of ingress/egress, emergency vehicle access, city maintenance activities, and shall comply with the sight visibility requirements in this section.
3. All required off-street parking facilities which have 15 or more parking spaces shall provide landscaping in conformance with the following:
 - a) A perimeter landscaped border of at least five feet wide around the parking area.
 - b) Interior landscaping in at least ten percent of the total land area covered in parking.
 - c) The interior of the parking areas shall contain landscape islands and peninsulas located in such a manner as to:
 - i) Divide and break up large expanses of paving;
 - ii) Guide traffic flow and direction;
 - iii) Promote pedestrian and vehicular safety; and
 - iv) Preserve existing trees and vegetation.
 - d) Landscape islands shall be installed to break up the parking area into rows of not more than 20 contiguous parking spaces or ten spaces in one row.
 - i) Each end of each row of parking spaces shall require a landscape island unless the end of such row of parking spaces is adjacent to a perimeter landscape;
 - ii) The minimum width for a landscape island or peninsula shall be five feet; and
 - iii) Each landscape island or peninsula shall contain a minimum of one shade tree and a combination of five deciduous and evergreen shrubs or groundcover.

4. Parking spaces, loading facilities, and all pedestrian areas shall be provided in accordance with the provisions of state and federal law, including the American with Disabilities Act (ADA), and the International Codes, as adopted by the city.
5. Required parking, pedestrian, loading, and bicycle facilities proposed in the downtown mixed-use district shall be provided by the project sponsor, at the rear or side of the building; and
6. Shared detached garages and surface parking should be located so their visual presence is minimized and associated noise or other impacts do not intrude into public spaces and shall be screened from public streets and adjacent residential uses.

600.04 INSPECTION REQUIREMENTS

All private parking lots and parking lots to be dedicated to the City shall be inspected and certified (stamped) by a professional engineer licensed to practice in the state of Washington to comply with City parking lot specifications and standards.

600.05 NUMBER OF SPACES REQUIRED

The minimum number of off-street parking spaces shall be determined in accordance with the Table 600.B. Where alternative standards are indicated, the greater requirement applies. In cases of mixed uses or occupancies, the various uses shall be computed separately and combined for the total off-street parking requirement. Where computations result in a fraction, the parking space requirement shall be rounded to the nearest whole number.

If the parking requirements for a use are not specifically identified below, the parking requirements shall be determined by the city in a written finding based upon:

- a. The requirements for the most comparable use defined in this chapter; and/or
- b. The appropriate standards derived from the Institute of Transportation Engineers (ITE)'s Parking Generation Manual, as adopted by the city; and/or
- c. A parking study prepared by the applicant documenting the expected parking demand for the proposed use; and/or. Required parking for the proposed use as determined by other comparable jurisdictions.

Similarly, parking uses preceded by an “*” may alternatively be determined by one of the methods above.

TABLE 600.B

	Spaces Required
Single-family and two-family dwellings	Two spaces/dwelling unit
Multifamily dwellings	One and one-half spaces/dwelling unit with two or more bedrooms; or One space/dwelling unit with one bedroom or a studio apartment.
Accessory Dwelling Unit	One additional space/ADU
Mobile home parks	Two spaces/dwelling unit
Cottage housing	One space/dwelling unit
Vacation Rentals	Two spaces/dwelling unit with two or more bedrooms; One space/dwelling unit with one bedroom or studio dwelling unit.
Bed and Breakfast Inn	One space/guest room
*Fraternities, sororities and dormitories	1 per 3 occupants
Hotels/motels	One space/guest room; and at least one space for each employee at work during peak periods; and one space/500 feet of common areas.
*Boardinghouses and lodging homes	1 per sleeping room or lodging unit
*Senior citizens housing, designed with independent dwelling units	0.5 per dwelling unit
*Hospitals	1 per 3 beds
*Convalescent, nursing and rest homes	1 per 6 beds plus 1 per each staff member on duty on a maximum shift
*Churches, mortuaries and funeral homes, auditoriums, and other enclosed places of assembly	1 per 5 fixed seats, or 1 per 100 lineal inches of bench-type seating, or 1 per 100 square feet of gross floor area used for assembly purposes
*Public facilities, including libraries, police and fire stations	To be determined by the planning commission
*Schools, elementary and junior high, public, private or parochial	1 per each employee and each faculty member and 1 per 6 seats of assembly area
*Schools, colleges, high, public, private or parochial	1 per 15 students, plus 1 per each employee and faculty member and 1 per every 4 seats of assembly area
Retail, commercial and office buildings	One space/200 square feet plus adequate employee parking and;

	at least one space for each employee at work during peak periods.
Industry and Warehouse	One space/500 square feet
*Restaurants.....	1 per every 3 persons based on occupancy load
*Drive-in restaurants	1 per employee on maximum working shift and 1 per 100 square feet total floor area
*Shopping centers	1 per 300 square feet of gross floor area
*Theaters	1 per 3 seats
*Skating rinks	1 per 100 square feet of gross floor area
*Racquetball, handball and tennis courts, including accessory uses	1 per 40 square feet of assembly area plus 2 per court
*Manufacturing uses, research and testing laboratories, assembly plants and similar industrial uses not including office space 1 per employee on maximum working shift	
*Any use not addressed in this table	To be established by the planning commission

600.06 LOADING SPACE REQUIREMENTS

Off-street loading space(s) having access to a public right-of-way shall be required adjacent to each business building hereafter erected or enlarged if the use of such building entails deliveries or shipments to or from it. Such loading space(s) shall be adequate size to accommodate the number and size of vehicles simultaneously loaded or unloaded in connection with the business conducted in such building. No part of a truck, trailer, or van shall extend into the public right-of-way while using the loading space.

600.07 JOINT USE PARKING

The planning commission at a public meeting may authorize the joint use of parking facilities required by this chapter. Off-street parking for primarily nighttime uses such as theaters, bowling alleys, restaurants and related uses may be supplied by certain other daytime types of uses such as banks, offices, retail businesses, personal service shops and related uses.

Applications for utilization of joint use parking facilities may be approved by the planning commission provided the following conditions are met:

1. The parking facilities shall be within 500 feet of the principal buildings involved unless other transport is provided.
2. Joint use parking agreements shall not account for more than 50 percent of required off-street parking spaces.
3. The applicant shall show that there is no substantial conflict in the principal operating hours of the two buildings or uses for which a joint use of off-street parking facilities is proposed.

4. The applicant shall execute among all parties involved a properly drawn joint-use parking agreement which is approved as to form and manner of execution by the city attorney.

Following approval of such agreement by the planning commission, the agreement shall be recorded with the county auditor and filed for permanent record in the city hall.

600.08 COMPACT CAR ALLOWANCE

A maximum of 30 percent of the total required off-street parking spaces may be permitted and designated for utilization by compact cars. Each compact car space shall be designated as such. Dimensions of compact parking spaces shall conform to the standards as depicted in Table 600.A, Off-street Parking Area Dimensions, of this chapter.

600.09 OFFSTREET PARKING FACILITIES-INSTALLATION TIME LIMIT

The installation and improvement of required off-street parking facilities shall be completed to the required standards before a certificate of occupancy for a building is issued unless a time limit extension to a specified date is authorized by the Public Works Director.

600.10 PARKING LOT PLAN-FILING REQUIREMENTS

Detailed plans of off-street parking areas indicating the proposed development shall be filed with the Public Works Director for review. These plans shall include the location, size, shape, design, curb cuts, methods of onsite drainage, adjacent streets, circulation of vehicular and pedestrian traffic, ingress and egress, parking lot lighting and other features and appurtenances of the proposed parking facility. In addition, finished grades shall be required for all paved parking areas and shall be indicated on the plans submitted.

600.11 OFFSTREET PARKING-AUTHORITY TO WAIVE OR MODIFY REQUIREMENTS

The board of adjustment may, by formal action at a public meeting, waive or modify the requirements set forth in this chapter establishing the number of required parking spaces. It shall be the responsibility of the applicant to provide the board with sufficient evidence to identify good cause for such reduction or waiver.

600.12 REQUIRED BICYCLE STORAGE

Bicycle storage spaces shall be provided in conjunction with all multiple family dwelling units (three or more units) at the rate of one space/unit. Each space shall be a minimum length of six feet, a minimum width of two feet and shall be provided with a minimum overhead clearance of seven feet. In commercial districts, bicycle storage spaces shall be provided in conformance with the requirements of the administrator.

600.13 DISABLED PARKING SPACES

Disabled parking spaces shall be provided in accordance with the Uniform Building Code and ADA, whichever is more restrictive.

700 PARK STANDARDS

700.10 PLAYGROUND SURFACES

Playground surfaces shall be a poured in place rubber safety surfacing meeting or exceeding all of the requirements in the following ASTM standards: ASTM D624, ASTM D2859, ASTM E303, ASTM F1292, ASTM F1951, ASTM C1028, and ASTM D412. The system should consist of a dual durometer poured in place system with a wearing layer upper membrane and an underlying impact attenuation cushion layer. The finished surface should be porous and capable of being installed at varying thickness to comply with the Critical Fall Height requirements of the playground equipment specified. The cushion layer should be a mixture of black recycled SBR rubber buffings mixed with a 100% solids moisture cured MDI polyurethane binder or aliphatic (100 pounds of SBR rubber buffings to 12 pounds of binder) installed at the appropriate thickness. As an upgrade, or if recycled SBR rubber buffings are not available, 5/8" chunk rubber with correct amount of urethane for impact attenuation and longevity may be used. Chunk rubber shall not include SBR derived from rubber tires. It must be high quality pre-consumer recycled rubber containing EPDM. The cushion layer should be porous. The wearing surface should be manufactured from 1-4mm Thermoplastic Vulcanized (TPV) virgin colored rubber granules bonded by a binder, 100% solids moisture cured Polyurethane binder or aliphatic (110 pounds of TPV to 22 pounds of binder), and applied to a minimum thickness of ½" (12.7 mm) over the cushion layer. The color should be selected from Manufacturer's color chart by City prior to bidding/ordering materials. Pour in place surfacing shall be installed on a compacted sub-base material per manufacturer requirements.

700.20 PARK LIGHTING

All park lighting should be LED and "Dark Sky" compliant. Parking lots and internal park roadways should be lit to an average of 1-ft candle. Road intersections, pathways, cross walks, etc. should receive 1.5 to 2 times the normal roadway lighting level. Light poles should be powder coated metal or a stainless steel/non-corrosive metal finish. Pavilions, restrooms, and supporting park buildings/structures shall be lit to a minimum of 5-ft candles. Sports fields and courts shall be lit with sports field/court light fixtures that are LED, in a quantity and location to meet the needs of the sporting event with minimal light pollution. Special care shall be given when lighting is adjacent to residential homes. The light levels for a sports court should be an average of 30-ft candles and sports fields such as football, baseball, and soccer shall average 50-ft candles. The City shall approve the style of all lighting.

700.30 PARK BENCHES

Park benches shall be provided at the following minimum rate per acre:

Size of park in Acres	Minimum quantity of Benches
1-3	2*
3-5	3*
5-10	5*
10+	8*

*Note that in parks that provide a playground the minimum quantity of benches shall be increased based on the size of the playground and the number of kids/families likely to be at the park at any given moment.

Benches shall be Anova, Inc. Airi Leaf Series or approved equal and shall include the following:

- 6-ft Bench: Organically modern bench
- Seat Color: Textured Fern
- Frame Color: Textured Black

- Finish: Manufactures supplied finish for metal parts; powder coated
- Installation: Surface Mount and shall be secured to concrete pad.
- Concrete Pad: Bench area shall include a concrete pad directly beneath the bench and shall be ADA accessible.
- Material substitutes shall only be approved by the Public Works Director.
- An ADA accessible route shall be provided to the bench.

700.40 PARK PICNIC TABLES

Picnic tables shall be installed within a pavilion structure at the following rates per shape and roof type of structure.

The matrices below provide an approximate number of the picnic table capacity for each shelter. Totals were calculated using a standard picnic table size of 5'x6'. Numbers are approximate and informational only.

Polygonal Shelters

	Hex.	Oct.	Dod.
16'	2	1	
20'	4	4	
24'	5	4	
28'	7	5	
32'	8	8	
40'	14	14	16
48'	22	22	
50'			27
58'	34	36	
60'			41
64'	42	47	
66'			52
86'			79

Hip Roof Shelters

	Width						
	12'	16'	20'	24'	30'	40'	50'
18'	2						
22'	3						
24'		6	7				
34'	5	8	10	12	16		
42'	6						
44'		12	14	18	20	30	
64'		16	22	25	32	42	56
84'			28	37	40	55	
104'				48	52	79	
70'							64
90'							81
110'							96

Gable Roof Shelters

	Width					
	16'	20'	24'	30'	40'	50'
24'	6	6	9			
34'	8	10	12	16		
44'	12	14	18	20	30	
64'			25	32	42	56
84'			37	40	55	73
104'				52	79	90

Square Shelters

	12'	16'	20'	24'	30'	36'	40'	50'
Tables	1	2	6	8	14	20	25	42

The picnic tables shall in general be the 4'x4' unless otherwise directed by the City. The tables shall be in compliance with the requirements of the Pilot Rock 4-ft square pedestal table with recycled plastic top and seats, Model #PQT3/P/G-4PC/U or approved equal and shall include the following:

- Surface mount base plat shall be 3/8"x15-3/4" steel base plate for bolting to a concrete pad.
- Table and Seat Top Manufactured of 100% recycled plastic. Color shall be Solid Cedar.
- Frame shall be steel, powder coated, color Black.
- Table shall have the umbrella hole in the table top with cup and collar.
- Concrete Pad: Shall include a concrete pad directly beneath the table and shall be ADA accessible.
- An ADA accessible route shall be provided to the tables/structure.

700.50 PLAYGROUNDS

Local Parks/Parklets

These parks are typically less than 1 acre in size. Playgrounds should be roughly 1,500-3,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 2 park benches shall be provided nearest the playground area.

Neighborhood Parks

These parks are typically between 1-5 acres in size. Playgrounds should be roughly 3,500-6,500 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 3 park benches shall be provided nearest the playground area.

Community Parks

These parks are typically between 5-10 acres in size. Playgrounds should be roughly 6,500-10,000 square feet. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM 1487. A minimum of 5 park benches shall be provided nearest the playground area.

Regional Parks

These parks are typically greater than 10 acres in size. Playgrounds should be greater than 10,000 square feet in size. Playground equipment should fill the space while complying with all ASTM fall zones and clearance zones outlined in ASTM F1487. A minimum of 10 park benches shall be provided. Location of benches shall be placed throughout the park with a minimum of 5 benches nearest the playground area.

Playground Equipment

All playground equipment installed in designated park spaces shall meet or exceed ASTM F1487-17 Standard Consumer Safety Specification for Playground Equipment for Public Use and Section 424-Children's Play Structures of the International Building Code. Equipment shall include various amenities that may include but not be limited to climbing, sliding, spinning, swinging, brachiating and balancing. Playground equipment shall be grouped for ages of 2-5 and 5-12 and shall be age appropriate. Equipment for the 2-5 age group should be situated near adult supervision and have adequate separation from the 5-12 age group equipment. An accessible route of travel shall be provided to the playground equipment meeting the most current edition of the ADA Standards for Accessible Design.

700.60 IRRIGATION SYSTEM

An automated irrigation system shall be designed and installed to provide industry standard irrigation supply and coverage to the vegetated park areas. Irrigation components/parts shall be manufactured by Hunter Industries and installed in accordance with the manufacturer installation requirements.

700.70 TRAILS/PATHWAYS

Park areas shall incorporate trails and/or pathways throughout the park area. Trails and pathways shall be ADA compliant.

700.80 SECURITY

Park areas shall incorporate the necessary infrastructure for security cameras. Location of security cameras may include but not be limited to trail heads, parking lots, restrooms, and playgrounds. Coordinate with Public Works Director and Chief of Police for more specific security system requirements.

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STANDARD PLAN 010.00

GENERAL CONSTRUCTION NOTES

1. ALL PROJECTS SHALL BE CONSTRUCTED PER THE LATEST EDITION OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (SSRB&MC) AS AMENDED AND SUPPLEMENTED BY THE APWA SUPPLEMENT, THE CITY OF COLLEGE PLACE STANDARD SPECIFICATIONS AND THESE DRAWINGS. WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL LAWS AND CODES.
2. THE OWNER & CONTRACTOR SHALL PROVIDE PROPER SAFETY EQUIPMENT AND MEASURES IN ACCORDANCE WITH STATE AND FEDERAL SAFETY LAWS (WISHA, OSHA) AND SHALL PROTECT ALL WORKERS, EMPLOYEES AND THE PUBLIC.
3. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR AT THE JOB SITE DURING ALL WORKING HOURS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE APPROVED PLANS STAMPED "FOR CONSTRUCTION" AND SIGNED BY THE PUBLIC WORKS DIRECTOR ON THE CONSTRUCTION SITE AT ALL TIMES.
4. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
5. ANY CHANGES TO THE DESIGN MUST BE APPROVED BY THE CITY OF COLLEGE PLACE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE AND THE OWNER PRIOR TO IMPLEMENTING/CONSTRUCTING THE CHANGE.
6. THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES NECESSARY TO PROTECT EXISTING PROPERTY AND IMPROVEMENTS. THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER OR THE CITY OF COLLEGE PLACE, REPLACE AND REPAIR ANY DAMAGE TO PROPERTY AND IMPROVEMENTS.
7. THE LOCATIONS OF EXISTING UTILITIES AND FACILITIES ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR TO EXISTING UTILITIES OR FACILITIES AND DAMAGES OCCURRING AS A RESULT OF DAMAGES TO UTILITIES OR FACILITIES. PRIOR TO DIGGING, CONTRACTOR MUST VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE BY CALLING 1-800-425-5555 OR 811 TWO BUSINESS DAYS BEFORE DIGGING. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND THE CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE CITY OF COLLEGE PLACE PUBLIC WORKS DIRECTOR OR PUBLIC WORKS DIRECTOR.
8. OWNER IS RESPONSIBLE TO CONTACT THE DEPARTMENT OF ECOLOGY WITH REGARD TO THE NEED AND APPLICATION FOR A CONSTRUCTION STORMWATER GENERAL PERMIT AND TO PROVIDE EVIDENCE OF CONTACT, RESPONSE, AND COPY OF PERMIT (IF REQUIRED) TO THE CITY PRIOR TO COMMENCING CONSTRUCTION. CITY RESERVES RIGHT TO STOP WORK IF OWNER PROCEEDS AT OWN RISK WITHOUT COPY OF PERMIT OR TO DECLINE OCCUPANCY PERMIT IF REQUIRED PERMITS ARE NOT OBTAINED.

9. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (PERMIT OF ENTRY, GRADING, SEWER, WATER, ETC) BEFORE COMMENCING WORK. WORK IN THE RIGHT-OF-WAY OR WORK IMPACTING CITY EASEMENTS REQUIRES A RIGHT-OF-WAY OR ENTRY PERMIT FROM THE JURISDICTION OWNING THE RIGHT-OF-WAY.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK IN THE RIGHT-OF-WAY. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT TO EXISTING TRAFFIC. PROVISION SHALL BE MADE FOR ACCESS BY RESIDENTS, BUSINESSES, GOVERNMENT, SCHOOLS, SOCIAL AND MEDICAL FACILITIES PROVIDED ANY ARE IMPACTED BY PROJECT AND EMERGENCY AND GARBAGE COLLECTION VEHICLE ACCESS SHALL BE PROVIDED AT ALL TIMES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT FUTURE LAND CORNERS. DISTURBED PROPERTY MARKERS, BENCHMARKS ETC. SHALL BE REPLACED AT THE CONTRACTOR'S COST USING THE SERVICES OF A REGISTERED SURVEYOR LICENSED IN THE STATE OF WASHINGTON.
12. WITH THE EXCEPTION OF STORMWATER INSPECTIONS DEEMED NECESSARY BY THE CITY TO ENSURE COMPLIANCE WITH STORMWATER STANDARDS, CITY INSPECTION OUTSIDE OF BUILDINGS IS LIMITED TO FACILITIES IN THE RIGHT-OF-WAY. ALL OTHER ON-SITE INSPECTION AND COMPLIANCE, INCLUDING ADA COMPLIANCE, IS THE RESPONSIBILITY OF THE OWNER.
13. AMERICAN DISABILITY ACT REQUIREMENTS SHALL BE OBSERVED WHETHER OR NOT THEY ARE SPECIFICALLY CALLED OUT ON PLANS OR DETAILS. WHERE THE CONTRACTOR DEEMS PLANS ARE INADEQUATE TO CONSTRUCT FACILITIES TO ADA STANDARDS, THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER WHO SHALL BE RESPONSIBLE TO OBTAIN ANY NECESSARY CLARIFICATION FROM THE ENGINEER OF RECORD. ANY CHANGES OR MODIFICATIONS TO APPROVED PLANS SHALL BE APPROVED IN ADVANCE BY THE CITY.
14. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
15. BACKFILLING OF ALL MAINS, SERVICES, APPURTENANCES, AND COMPACTED LIFTS SHALL BE OBSERVED BY THE CITY OF COLLEGE PLACE. OBSERVATION OF SUCH WORK SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY FOR THE REQUIRED OBSERVATIONS AT LEAST 24 HOURS PRIOR TO INSPECTION.
16. PERMANENT CONTROL MONUMENTS SHALL BE ESTABLISHED AT
 - ALL CONTROLLING CORNERS ON THE BOUNDARIES OF A SUBDIVISION
 - THE INTERSECTIONS OF CENTERLINES OF STREETS
 - THE BEGINNING AND ENDS OF CURVES ON CENTERLINES
 - RADIUS POINTS OF TURNAROUNDS
 - ALL BLOCK CORNERS.
17. DURING CONSTRUCTION, THE OWNER OR HIS AGENT SHALL MAINTAIN ON-SITE AND MAKE AVAILABLE TO CITY PERSONNEL, A "RED-LINED" COPY OF PLANS SHOWING ALL VARIATIONS BETWEEN APPROVED PLANS AND CONSTRUCTED FACILITIES.

18. UPON COMPLETION AND PRIOR TO FINAL APPROVAL OF THE WORK, THE OWNER OR HIS AGENT SHALL PROVIDE THE CITY WITH STAMPED AS-BUILT DRAWINGS CONFORMING TO CITY REQUIREMENTS AND SHALL INCLUDE STAMPED ENGINEER-OF-RECORD CERTIFICATION THAT PRIVATE FACILITIES COMPLY WITH CITY PARKING LOT DESIGN CODE (CPMC 17.48.040) AND THE AMERICAN DISABILITIES ACT. (SEE "RECORD DRAWING REQUIREMENTS" DOCUMENT).
19. THE ENGINEER OF RECORD SHALL PROVIDE THE CITY OF COLLEGE PLACE WITH WRITTEN, STAMPED CONFIRMATION THAT THE STORM DRAINAGE FACILITIES, AS CONSTRUCTED, WILL FUNCTION AS DESIGNED PRIOR TO ISSUANCE OF OCCUPANCY PERMIT OR AS OTHERWISE REQUIRED BY THE PUBLIC WORKS DIRECTOR. THE STAMPED CERTIFICATION (SEE STD. PLAN 410.20) SHALL ALSO APPEAR ON THE RECORD DRAWINGS.
20. WHERE A STORMWATER DESIGN HAS BEEN REQUIRED, FINAL LOT GRADING FOR LOTS COVERED BY THE DESIGN SHALL BE CONSISTENT WITH THE APPROVED STORMWATER DESIGN.
21. TEST PITS EXCAVATED WITHIN THE LIMITS OF THE SITE SHALL BE REEXCAVATED AND REPLACED WITH COMPACTED STRUCTURAL FILL AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
22. UNLESS OTHERWISE SPECIFIED, CONCRETE USED IN PROJECTS APPROVED FOR CONSTRUCTION BY THE CITY OF COLLEGE PLACE SHALL MEET OR EXCEED 4000 PSI.
23. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND CONTROL DUST ON-SITE AS A CONDITION FOR CONTINUING PROJECT APPROVAL.
24. THE CONTRACTOR SHALL OBSERVE THE CURRENT CITY NOISE ORDINANCE (11 P.M. – 7 A.M.)

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

STANDARD PLAN 110.00

GENERAL STREET CONSTRUCTION NOTES

1. STREET BASE ROCK LIFTS SHALL BE IMPORTED CRUSHED ROCK, COMPACTED TO A 95% RELATIVE DENSITY WITH A VIBRATING COMPACTION SLED, UPRIGHT HAMMERING COMPACTOR, HOEPACK, OR VIBRATORY COMPACTION ROLLER.

*** NATIVE/EXCAVATED MATERIAL SHALL NOT BE USED FOR BACKFILL UNLESS IT IS SHOWN TO BE A SUITABLE MATERIAL AS DETERMINED BY A GEOTECHNICAL ENGINEER AND/OR BY THE PUBLIC WORKS DIRECTOR***

2. STREET BASE ROCK LIFTS SHALL BE NO MORE THEN 12" IN HEIGHT IN ORDER TO ASSURE PROPER COMPACTION. APPROPRIATE MOISTURE SHALL BE ADDED TO THE ROCK FOR OPTIMIZING COMPACTION. ROCK IS NOT TO BE COMPACTIONED OR GRADED DRY.
3. THE LAST OR TOP LIFT, PRIOR TO PAVING THE CUT, MAY EITHER BE COMPACTIONED CRUSHED ROCK OR A CONTROLLED DENSITY CONCRETE FILL. CONTROLLED DENSITY CONCRETE FILL SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
4. FINAL TOP COURSE ON CONCRETE PAVED STREETS SHALL BE NO LESS THAN 8" IN DEPTH.
5. A COAT OF CSS-1 TACK SHALL BE APPLIED TO THE ADJOINING EDGES OF ALL ASPHALT STREET CUTS. THE ONLY EXCEPTION TO THIS IS WHERE CONCRETE IS BEING USED AS THE RESURFACING MATERIAL.
6. ASPHALT FINAL TOP COURSE LIFTS SHALL BE CONSTRUCTED OF CLASS ½" PG 64-28 HMA NO LESS THEN 4" THICK AND SHALL SLOPE FROM CENTERLINE TO THE EDGE OF THE STREET AT A 2% SLOPE. THE ONLY EXCEPTION IN PAVEMENT THICKNESS IS SURFACE REPLACEMENT FOR LOW GRADE FLEXIBLE PAVEMENT WHICH ONLY REQUIRES A MINIMUM 2" LIFT.
7. THE FOLLOWING TESTS SHALL BE PROVIDED AT THE OWNERS EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO ROADWAY CONSTRUCTION:
 - CURRENT WSDOT PIT CERTIFICATION
 - T-606/T-911 (SUBGRADE MAX. DENSITY) NOTE: PROVIDE ADDITIONAL TEST FOR SUBGRADE EXCAVATIONS 2' OR MORE BELOW EXISTING GRADE.
 - T-606 (CSTC MAX. DENSITY)
 - T-27/11 CSTC SIEVE ANALYSIS
 - T-176 CSTC SAND EQUIVALENT (SE)
 - T-606 (CSBC MAX. DENSITY)
 - T-27/11 CSBC SIEVE ANALYSIS
 - T-176 CSBC SAND EQUIVALENT (SE)
 - APPROVED ASPHALT MIX DESIGN
 - THEORETICAL MAXIMUM ASPHALT DENSITY (RICE)
8. THE FOLLOWING HMA PLANT PRODUCTION TESTS SHALL BE PROVIDED AT THE OWNER EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO HMA APPROVAL AND PAVING:
 - ASPHALT CONTENT
 - GRADATION
 - SAND EQUIVALENT
 - WSDOT DEGRADATION
 - LA WEAR TEST

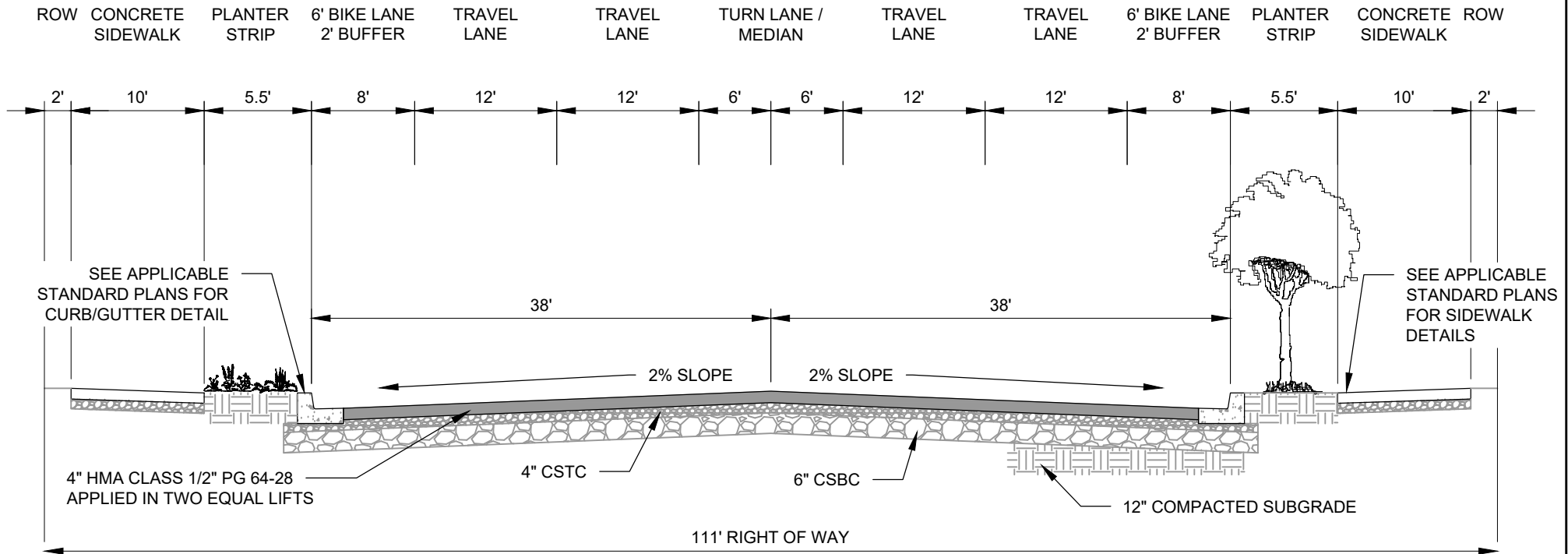
9. THE FOLLOWING TESTS SHALL BE PERFORMED AT THE OWNER'S EXPENSE TO WSDOT SPECIFICATIONS FOR CITY REVIEW AND APPROVAL DURING CONSTRUCTION:
DENSITY TESTS. FIVE MINIMUM PER FIRST 1000 FEET WITH ONE TEST PER 200' OR FRACTION THEREOF THEREAFTER FOR:
SUBGRADE BELOW 2 FEET -- MINIMUM DENSITY SHALL BE 95% OF THE MAXIMUM DENSITY AND + 2% OF THE OPTIMUM MOISTURE AS DETERMINED BY THE APPROPRIATE WSDOT TEST METHOD.
SUBGRADE AT GRADE—SAME AS ABOVE.
CSBC-- MINIMUM DENSITY SHALL BE 95% BASED ON THE WSDOT 606 TEST METHOD.
CSTC-- MINIMUM DENSITY SHALL BE 95% BASED ON THE APPLICABLE WSDOT TEST METHOD.
FIVE ASPHALT DENSITIES PER 400 TON OF ASPHALT.
CORES—TO BE DETERMINED BY CITY.
10. THE FOLLOWING TESTS AND INFORMATION SHALL BE PROVIDED FOR CITY REVIEW AND APPROVAL PRIOR TO PLACEMENT OF CONCRETE
BATCH PLANT PRE-CERTIFICATION (NRMCA)
MIX DESIGN
AIR CONTENT (4.5% - 7.5%)
CYLINDERS—SEE WSDOT REQUIREMENTS.
11. ALL UTILITIES SHALL BE RAISED PRIOR TO PLACEMENT OF FINAL LIFT OF HMA. ANY GAPS AROUND UTILITIES SHALL BE FILLED WITH CONCRETE TO TOP OF BASE LIFT/GRADE PRIOR TO PAVING FINAL LIFT.
12. CURB RAMP TRANSITIONS SECTIONS SHALL BE NO STEEPER THAN A 12:1 SLOPE AS PER THE AMERICANS WITH DISABILITIES ACT (A.D.A.)
13. CURB RAMP SHALL BE PLACED TO FACILITATE ALIGNMENT OF THE CROSSWALKS.
14. CURB RAMPS SHALL NOT BE PLACED INTEGRAL WITH THE SIDEWALK OR CURB AND SHALL BE ISOLATED WITH EXPANSION JOINT MATERIAL.
15. SIDEWALK WIDTH SHALL BE NO LESS THAN 6'-0". WIDER SIDEWALKS SHALL BE SPECIFIED ON PLANS & DOCUMENTS AND ARE SUBJECT TO APPROVAL BY THE CITY ENGINEER. WHEN THE WIDTH REQUIRED FOR CURB LINE SIDEWALKS IS SUCH THAT THE 12:1 RAMP SLOPE CANNOT BE ACHIEVED, THE BACK OF THE SIDEWALK SHALL BE GRADUALLY LOWERED SO THE 12:1 RAMP SLOPE CAN BE ACHIEVED OVER THE FULL WIDTH OF THE RAMP.
16. YELLOW TRUNCATED DOME WARNING PADS SHALL BE PLACED ON BOTH SIDES OF CURB RAMPS, AT ENTRIES TO TRAVELED WAYS AND AT ANY GRADE CHANGE OR OBSTRUCTION IN THE SIDEWALK. THEY SHALL BE CONSTRUCTED AS PER SHOWN IN STANDARD PLANS 110.36. THE PADS SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK AND SHALL BE NO LESS THAN 1'-6" OR NO MORE THAN 3'-0" WIDE AS SHOWN IN STANDARD PLANS 110.30 - 110.36.
17. APPROACH TRANSITION SECTIONS (FLARES) SHALL BE NO LESS THAN 6'-0" IN WIDTH OR 12:1 MAXIMUM SLOPE, AS SHOWN IN STANDARD PLAN 110.13.
18. DRIVEWAY/ALLEY APPROACH LIP SHALL BE NO LESS THAN 1". WHEELCHAIR RAMP LIP SHALL BE FLUSH.

19. ALL RESIDENTIAL DRIVEWAY & ALLEY APPROACHES SHALL BE NO LESS THAN 12'-0" IN WIDTH AND NO MORE THAN 25'0".
20. COMMERCIAL OR HEAVY VEHICLE LOAD DRIVEWAY AND ALLEY APPROACHES SHALL HAVE REINFORCEMENT MATERIAL PLACED WITHIN THE CURB/GUTTER & AND SIDEWALK AS SHOWN IN STANDARD PLAN 110.12 AND IN THE FOLLOWING MANNER:
 - ❑ CURB/GUTTER: 3-#4 REINFORCEMENT BARS PLACED PARALLEL TO THE STREET WITH #4 CROSS TIES @ 12" ON CENTER.
 - ❑ SIDEWALK: #4 REINFORCEMENT BARS PLACED @ 12" ON CENTER EACH WAY.
21. ALL SIDEWALK EDGES SHALL HAVE A $\frac{3}{4}$ " RADIUS.
22. ALL RETROFIT CURB, GUTTER & SIDEWALK WORK SHALL BE SAW CUT SMOOTHLY AND EVENLY AT THE ADJOINING EDGES. COMPLETELY REMOVE THE WHOLE CURB AND GUTTER. CURB, GUTTER, DRIVEWAY & GUTTER SHALL NOT BE POURED AS ONE SECTION. EXCEPTION: PEDESTRIAN CURBS MAY BE MONOLITHICALLY POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.
23. $\frac{1}{2}$ " FELT EXPANSION MATERIAL SHALL BE PLACED AT JOINTS AT ANY CHANGE IN DIRECTION, PROFILE, OR OTHER SIGNIFICANT CHANGE IN THE DESIGN OR CONFIGURATION OF THE SIDEWALK AND/OR CURB OCCURS AND AT REGULAR 100' INTERVALS. EXAMPLES OF THIS ARE AS FOLLOWS:
 - ❑ DRIVEWAY/ALLEY APPROACHES
 - ❑ OBSTRUCTIONS SUCH AS MANHOLES, WATER VALVE BOXES, POWER POLES, PHONE PEDESTALS,
 - ❑ BEFORE AND AFTER ANY CHANGE IN DIRECTION SUCH AS SWEEPS OR CORNERS.
 - ❑ WHEEL CHAIR RAMPS
24. CURB, GUTTER AND SIDEWALKS SHALL BE POURED AS SEPARATE UNITS EXCEPT THAT PEDESTRIAN CURBS MAY BE POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.

MONOLITHICALLY CONSTRUCTED WORK SHALL NOT BE ALLOWED

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. THE CENTER TURN LANE MAY BE OMITTED AND LANE WIDTHS MODIFIED BASED ON CONCURRENCE OF THE CITY ENGINEER WITH THE FINDINGS OF AN APPROVED TRAFFIC IMPACT ANALYSIS (TIA) SUBSTANTIATING MINIMUM LEVELS OF SERVICE MAINTAINED OVER 20-YEAR HORIZON.
6. STREET TREES SHALL NOT BE PLACED ABOVE UTILITIES.
7. NO ON STREET PARKING PERMITTED

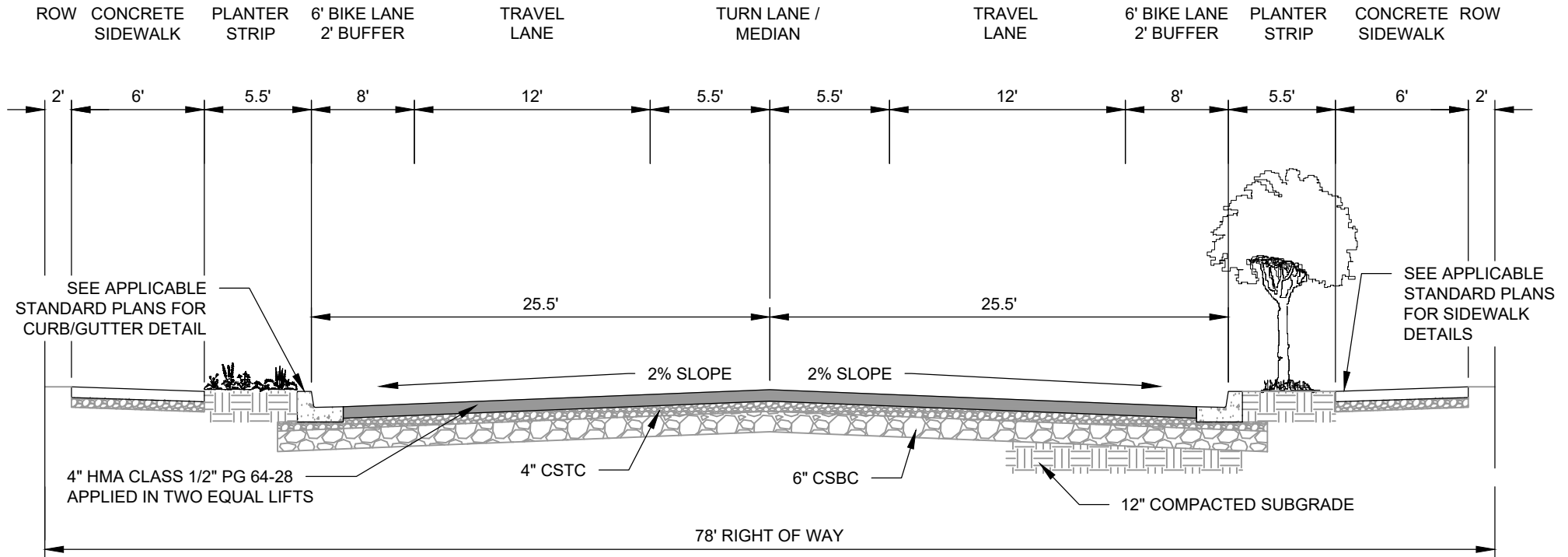
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(FIVE LANE PRINCIPAL ARTERIAL)

STANDARD PLAN
110.01

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. THE CENTER TURN LANE MAY BE OMITTED AND LANE WIDTHS MODIFIED BASED ON CONCURRENCE OF THE CITY ENGINEER WITH THE FINDINGS OF AN APPROVED TRAFFIC IMPACT ANALYSIS (TIA) SUBSTANTIATING MINIMUM LEVELS OF SERVICE MAINTAINED OVER 20-YEAR HORIZON.
6. STREET TREES SHALL NOT BE PLACED ABOVE UTILITIES.
7. NO ON STREET PARKING PERMITTED

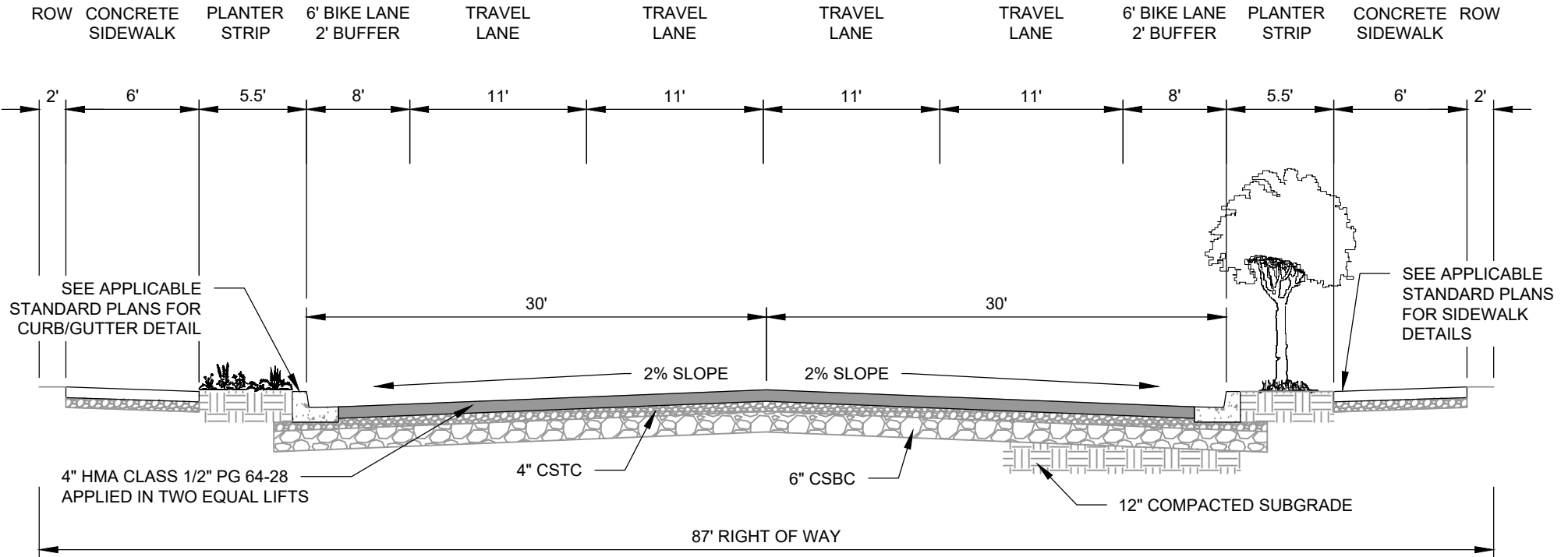
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(THREE LANE MINOR ARTERIAL)

STANDARD PLAN
110.02

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. LANE WIDTHS MAY BE MODIFIED BASED ON CONCURRENCE OF THE CITY ENGINEER WITH THE FINDINGS OF AN APPROVED TRAFFIC IMPACT ANALYSIS (TIA) SUBSTANTIATING MINIMUM LEVELS OF SERVICE MAINTAINED OVER 20-YEAR HORIZON.
6. STREET TREES SHALL NOT BE PLACED ABOVE UTILITIES.
7. NO ON STREET PARKING PERMITTED

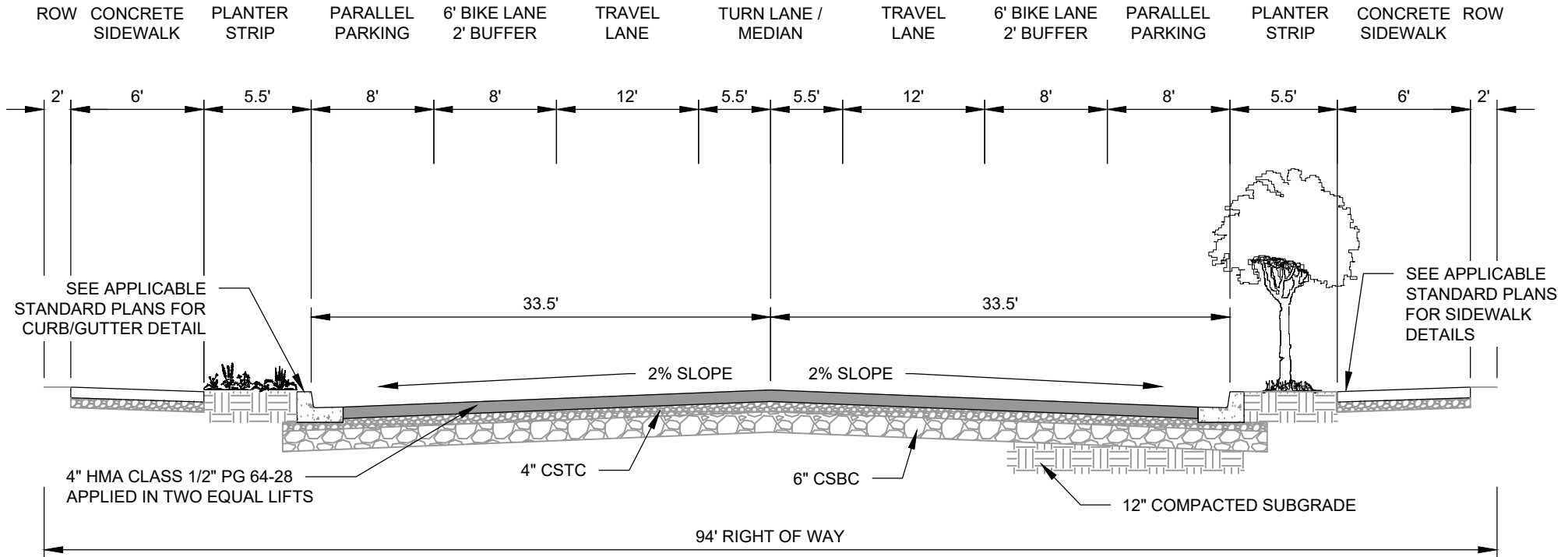
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(FOUR LANE MINOR ARTERIAL)

STANDARD PLAN
110.03

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. THE CENTER TURN LANE MAY BE OMITTED AND LANE WIDTHS MODIFIED BASED ON CONCURRENCE OF THE CITY ENGINEER WITH THE FINDINGS OF AN APPROVED TRAFFIC IMPACT ANALYSIS (TIA) SUBSTANTIATING MINIMUM LEVELS OF SERVICE MAINTAINED OVER 20-YEAR HORIZON.
6. STREET TREES SHALL NOT BE PLACED ABOVE UTILITIES.

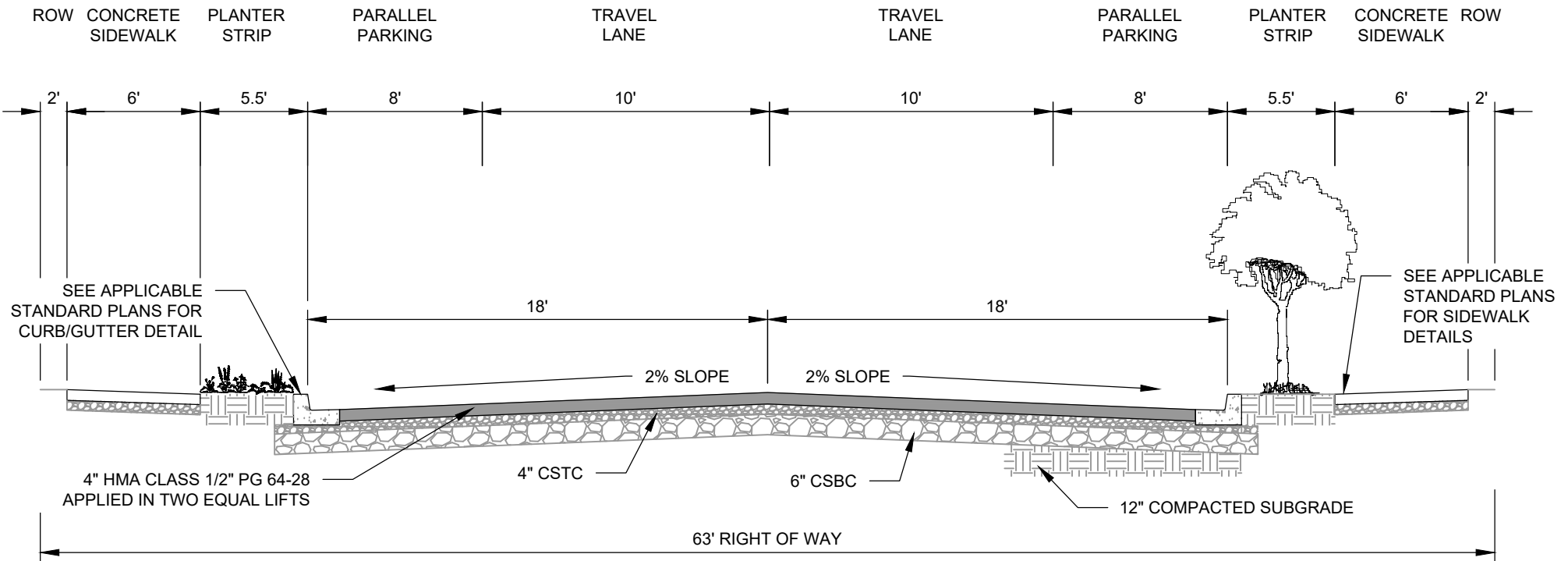
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(THREE LANE COLLECTOR)

STANDARD PLAN
110.04

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. STREET TREES SHALL NOT BE PLACED OVER UTILITIES.

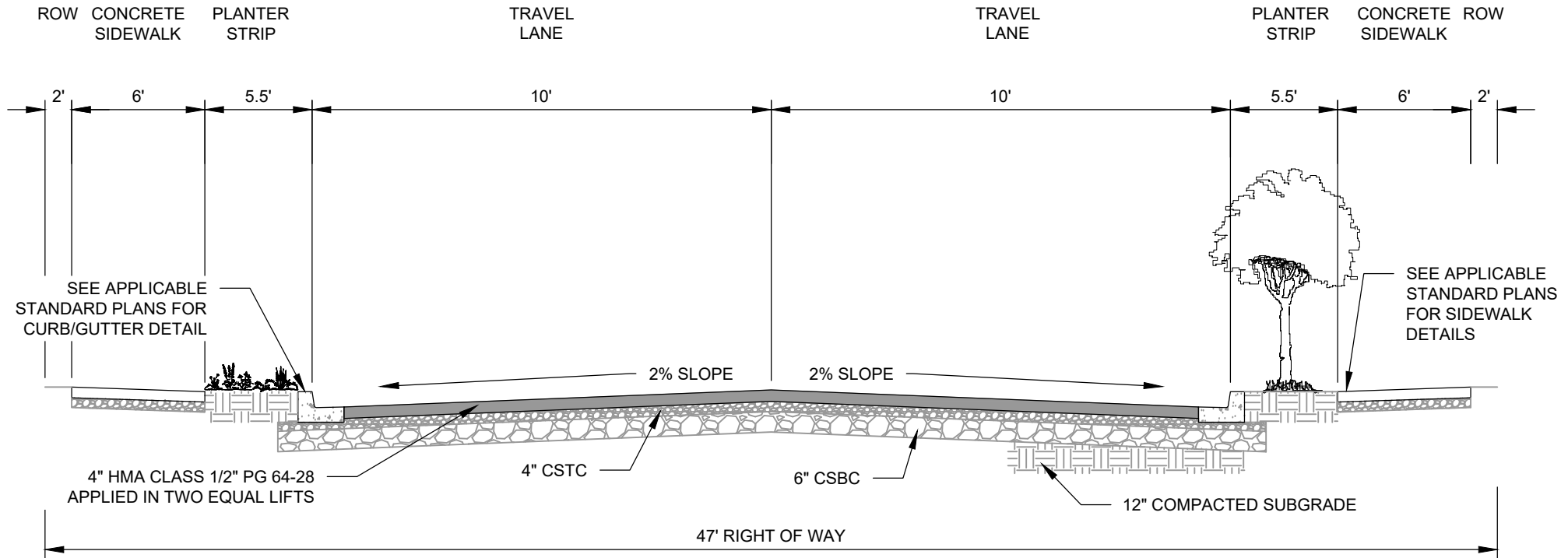
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(TWO LANE LOCAL STREET)

STANDARD PLAN
110.05

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. STREET TREES SHALL NOT BE PLACED ABOVE UTILITIES.
6. NO ON STREET PARKING PERMITTED

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

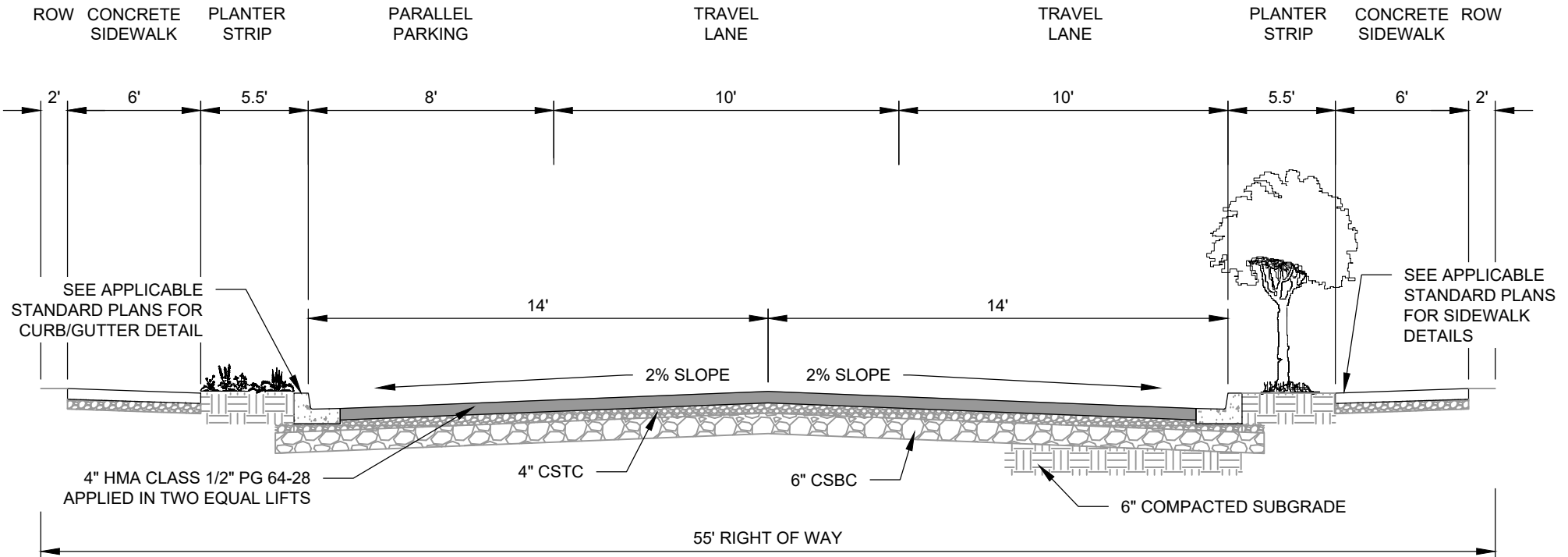
STANDARD ROAD CROSS SECTION
(TWO LANE LOCAL STREET - NO FRONTAGE)

STANDARD PLAN
110.06

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



LIMITED USE STANDARD: PROPOSAL BY CITY REQUIRED



NOTES:

1. PLANTER STRIP WIDTH MAY VARY TO ACCOMMODATE STORMWATER MANAGEMENT FACILITIES UPON APPROVAL BY CITY.
2. PLANTER STRIP SHALL INCLUDE STREET TREES LOCATED EVERY 60 FEET AND BE SELECTED FROM THE OFFICIAL STREET TREE LISTING.
3. DIMENSIONS PROVIDED FOR SIDEWALK AND PLANTER STRIP WIDTHS ARE MINIMUM AND APPLICABLE IF SUFFICIENT RIGHT-OF-WAY WIDTH IS AVAILABLE AS DETERMINED BY THE CITY. IN THE EVENT SUFFICIENT RIGHT-OF-WAY WIDTH IS NOT AVAILABLE, SIDEWALK AND PLANTER STRIP FEASIBILITY AND WIDTHS ARE DETERMINED BY THE CITY.
4. REFER TO GENERAL STREET CONSTRUCTION NOTES - STANDARD PLAN 110.00 FOR SPECIFICATIONS INCLUDING BUT NOT LIMITED TO COMPACTION STANDARDS AND TESTING REQUIREMENTS.
5. STREET TREES SHALL NOT BE PLACED OVER UTILITIES.

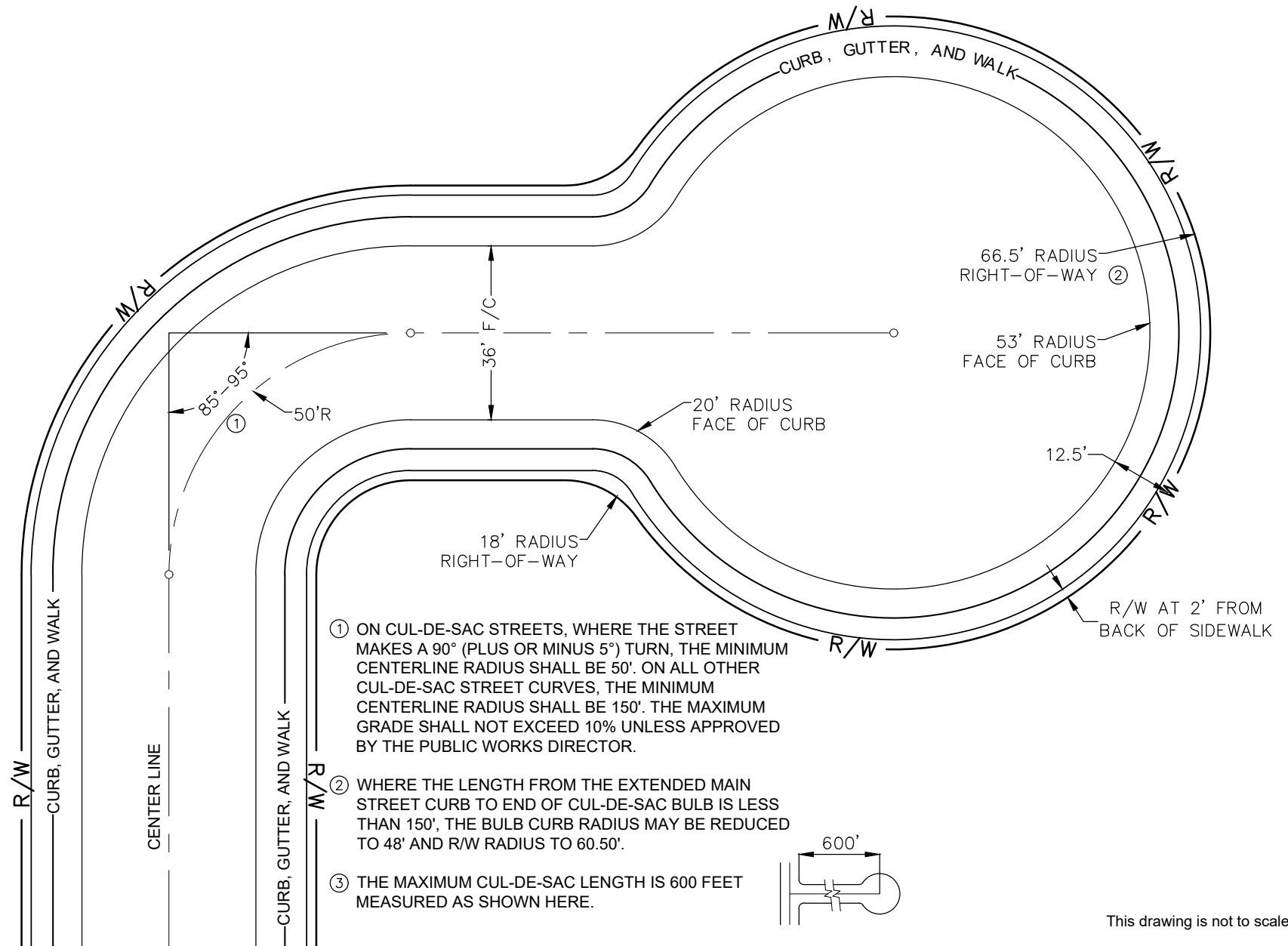
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD ROAD CROSS SECTION
(TWO LANE LOCAL STREET - PARKING ONE SIDE)

STANDARD PLAN
110.07

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

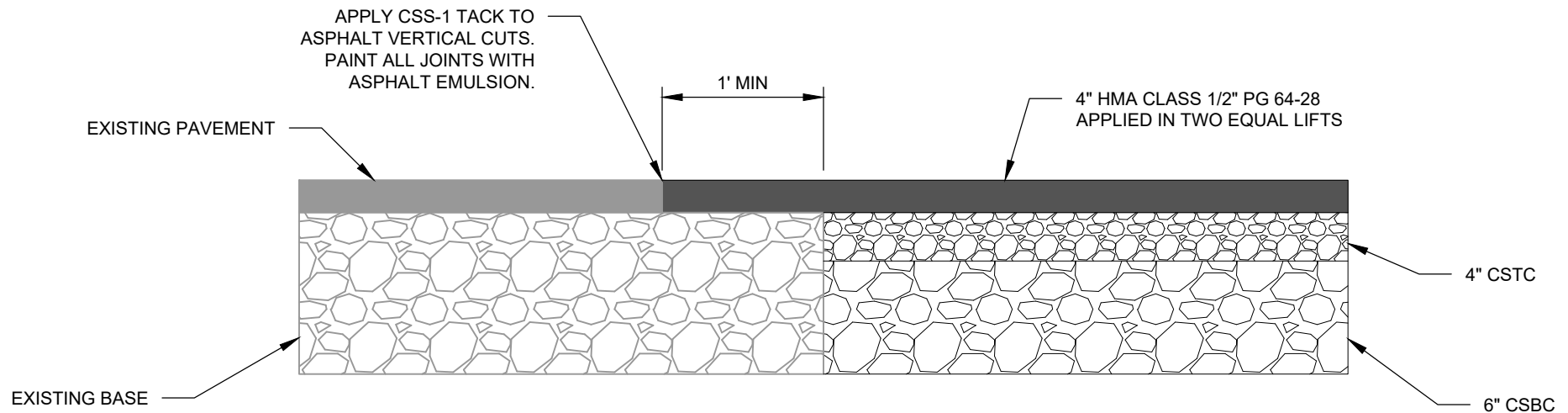


CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

CUL-DE-SAC

STANDARD PLAN
110.08

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. AFTER DITCH BACK FILL HAS BEEN COMPACTED, AN ADDITIONAL 12" WILL BE REMOVED FROM EACH EDGE OF THE ORIGINAL CUT. THE ENGINEER MAY REQUIRE MORE THAN THE 12" ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT FALLS WITHIN THE TRAVEL LANE.
2. ALL BACK FILL SHALL BE UNIFORMLY MOISTURE CONDITIONED AND COMPACTED TO 95% MAX. DENSITY PER ASTM D1557. CRUSHED SURFACING BASE COURSE (CSBC) SHALL BE PLACED IN 6" OR LESS LIFTS. CRUSHED SURFACING TOP COURSE (CSTC) SHALL BE PLACED IN 4" OR LESS LIFTS.
3. COLD MIX MAY BE USED TEMPORARILY ONLY UNTIL HOT MIX ASPHALT IS AVAILABLE.
4. ALL PATCHES SHALL HAVE THE PERIMETER JOINTS OF THE PATCH CRACK SEALED. CRACK SEAL MATERIAL TO BE IN ACCORDANCE WITH SECTION 9-04.10 OF THE WSDOT STANDARD SPECIFICATIONS.
5. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE CITY OF COLLEGE PLACE. ALL LANE CLOSURES SHALL BE APPROVED BY THE CITY ENGINEER.

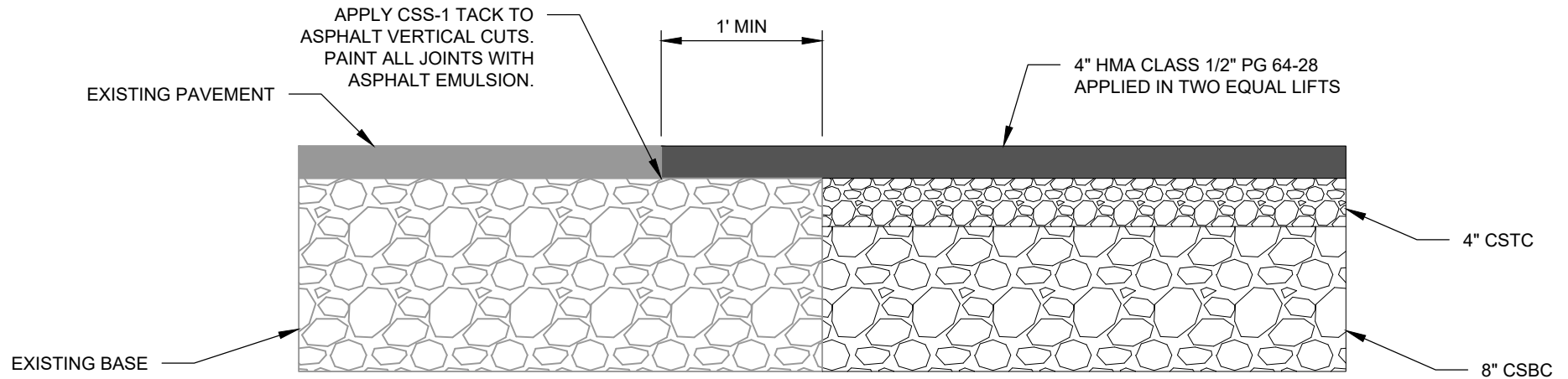
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

TYPICAL PATCH FOR LOCAL AND
COLLECTOR STREETS

STANDARD PLAN
110.09

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. AFTER DITCH BACK FILL HAS BEEN COMPACTED, AN ADDITIONAL 12" WILL BE REMOVED FROM EACH EDGE OF THE ORIGINAL CUT. THE ENGINEER MAY REQUIRE MORE THAN THE 12" ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT FALLS WITHIN THE TRAVEL LANE.
2. ALL BACK FILL SHALL BE UNIFORMLY MOISTURE CONDITIONED AND COMPACTED TO 95% MAX. DENSITY PER ASTM D1557. CRUSHED SURFACING BASE COURSE (CSBC) SHALL BE PLACED IN 6" OR LESS LIFTS. CRUSHED SURFACING TOP COURSE (CSTC) SHALL BE PLACED IN 4" OR LESS LIFTS.
3. COLD MIX MAY BE USED TEMPORARILY ONLY UNTIL HOT MIX ASPHALT IS AVAILABLE.
4. ALL PATCHES SHALL HAVE THE PERIMETER JOINTS OF THE PATCH CRACK SEALED. CRACK SEAL MATERIAL TO BE IN ACCORDANCE WITH SECTION 9-04.10 OF THE WSDOT STANDARD SPECIFICATIONS.
5. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY THE CITY OF COLLEGE PLACE. ALL LANE CLOSURES SHALL BE APPROVED BY THE CITY ENGINEER.

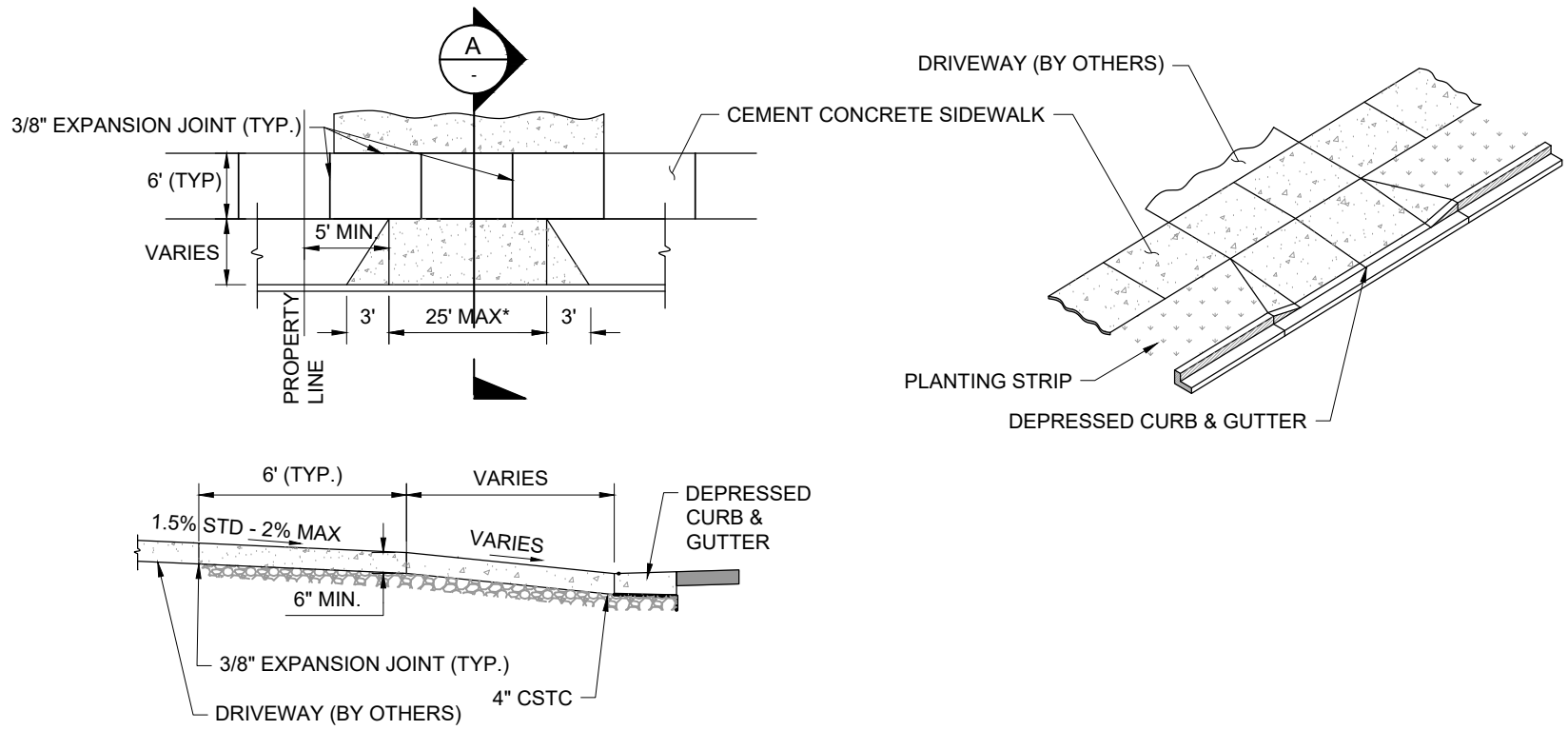
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

TYPICAL PATCH FOR
ARTERIAL STREETS

STANDARD PLAN
110.10

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



A DRIVEWAY APPROACH AND SIDEWALK CROSS-SECTION
SCALE: N.T.S.

NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE COLLEGE PLACE STANDARD PLAN 110.09 AND 110.10
3. THE WHOLE CURB AND GUTTER SECTION MUST BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
4. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
5. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YIELDING CONDITION.
6. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS.
7. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.
8. ADJUST WING LENGTH TO ENSURE SLOPE FALLS WITHIN MAXIMUM AND MINIMUM SLOPES. WING LENGTHS TO BE THE SAME ON BOTH SIDES OF DRIVEWAY.
9. APPROACHES, WINGS, AND SIDEWALKS SPANNING PLANTING STRIPS SHALL MAINTAIN A 6" THICK SECTION.
10. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.
11. LOTS WITH LESS THAN 60-FT OF WIDTH, THE DRIVEWAY WIDTH SHALL NOT EXCEED 20-FT.

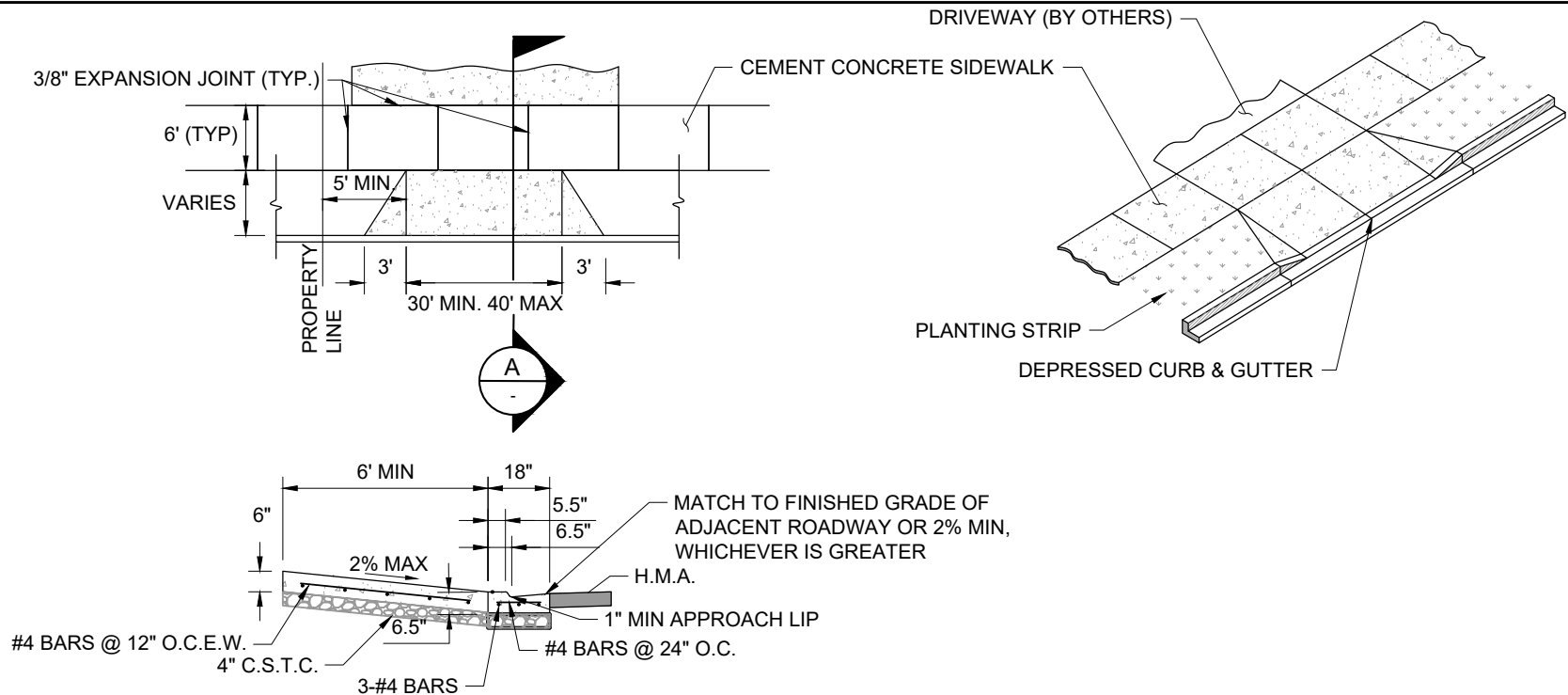
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

RESIDENTIAL DRIVEWAY
APPROACH

STANDARD PLAN
110.11

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



A SIDEWALK CROSS-SECTION
SCALE: N.T.S.

NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE COLLEGE PLACE STANDARD PLAN 110.09 AND 110.10
3. THE WHOLE CURB AND GUTTER SECTION MUST BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
4. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
5. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YIELDING CONDITION.
6. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS.
7. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.
8. ADJUST WING LENGTH TO ENSURE SLOPE FALLS WITHIN MAXIMUM AND MINIMUM SLOPES. WING LENGTHS TO BE THE SAME ON BOTH SIDES OF DRIVEWAY.
9. APPROACHES, WINGS, AND SIDEWALKS SPANNING PLANTING STRIPS SHALL MAINTAIN A 6" THICK SECTION.
10. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

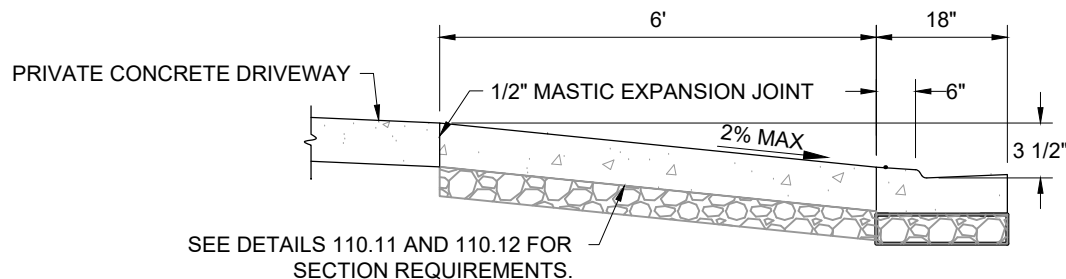
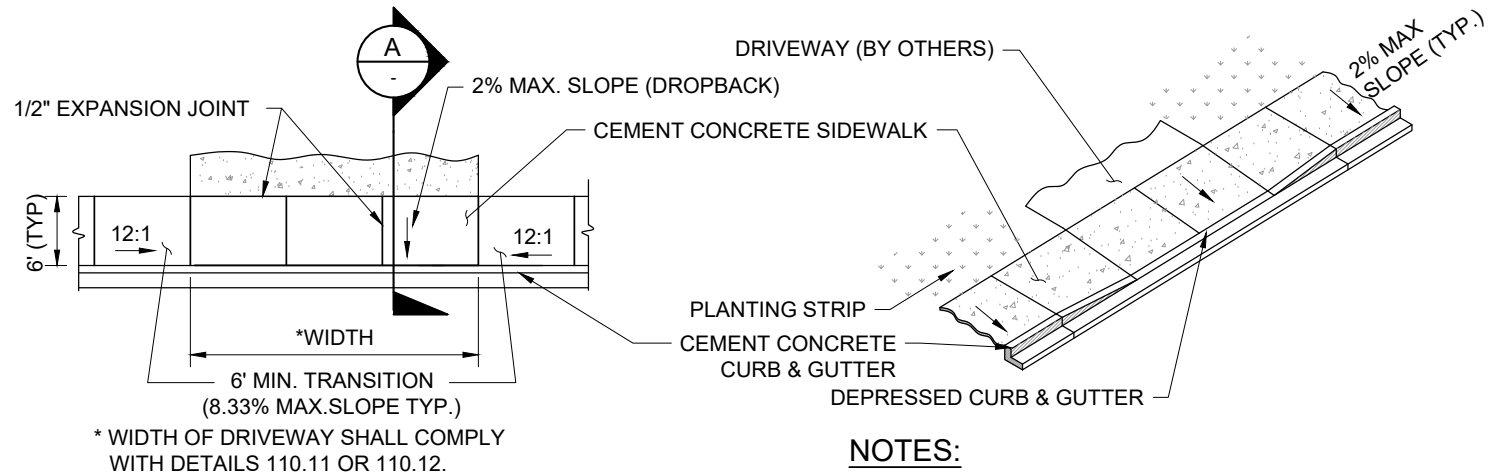
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

COMMERCIAL DRIVEWAY
APPROACH

STANDARD PLAN
110.12

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



A DRIVEWAY SECTION
SCALE: N.T.S.

NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE COLLEGE PLACE STANDARD PLAN 110.09 AND 110.10
3. THE WHOLE CURB AND GUTTER SECTION MUST BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
4. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
5. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YEILDING CONDITION.
6. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPERATELY WITH EXPANSION JOINTS.
7. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.
8. ADJUST WING LENGTH TO ENSURE SLOPE FALLS WITHIN MAXIMUM AND MINIMUM SLOPES. WING LENGTHS TO BE THE SAME ON BOTH SIDES OF DRIVEWAY.
9. APPROACHES, WINGS, AND SIDEWALKS SPANNING PLANTING STRIPS SHALL MAINTAIN A 6" THICK SECTION.
10. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

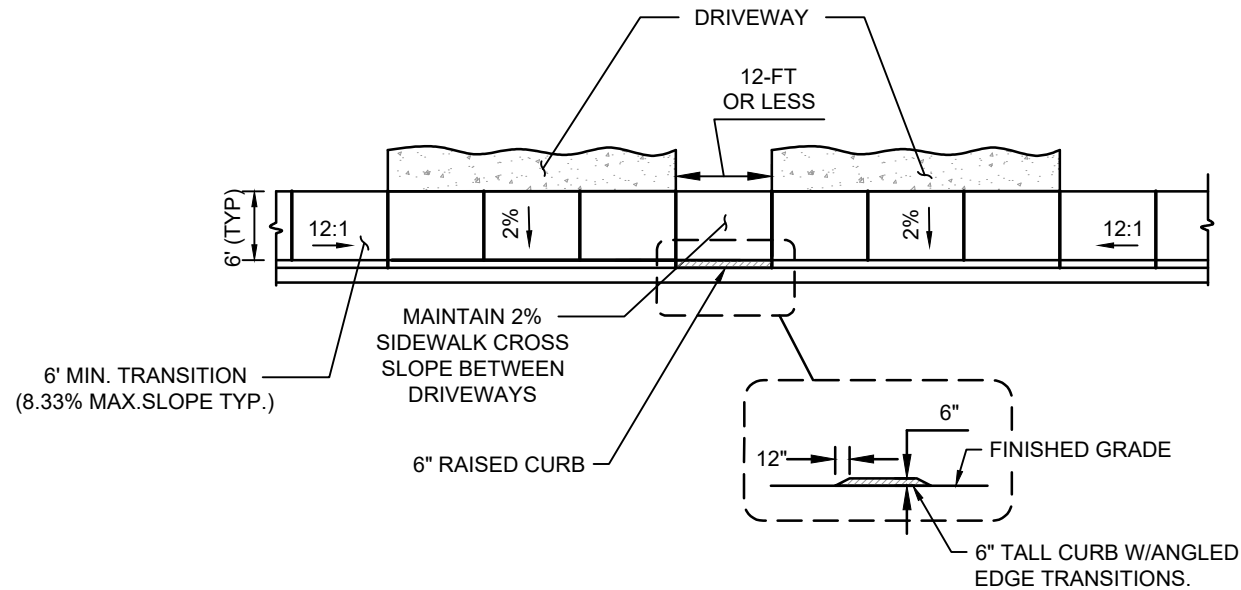
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

CURB TIGHT SIDEWALK
DROPBACK DRIVEWAY

STANDARD PLAN
110.13

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

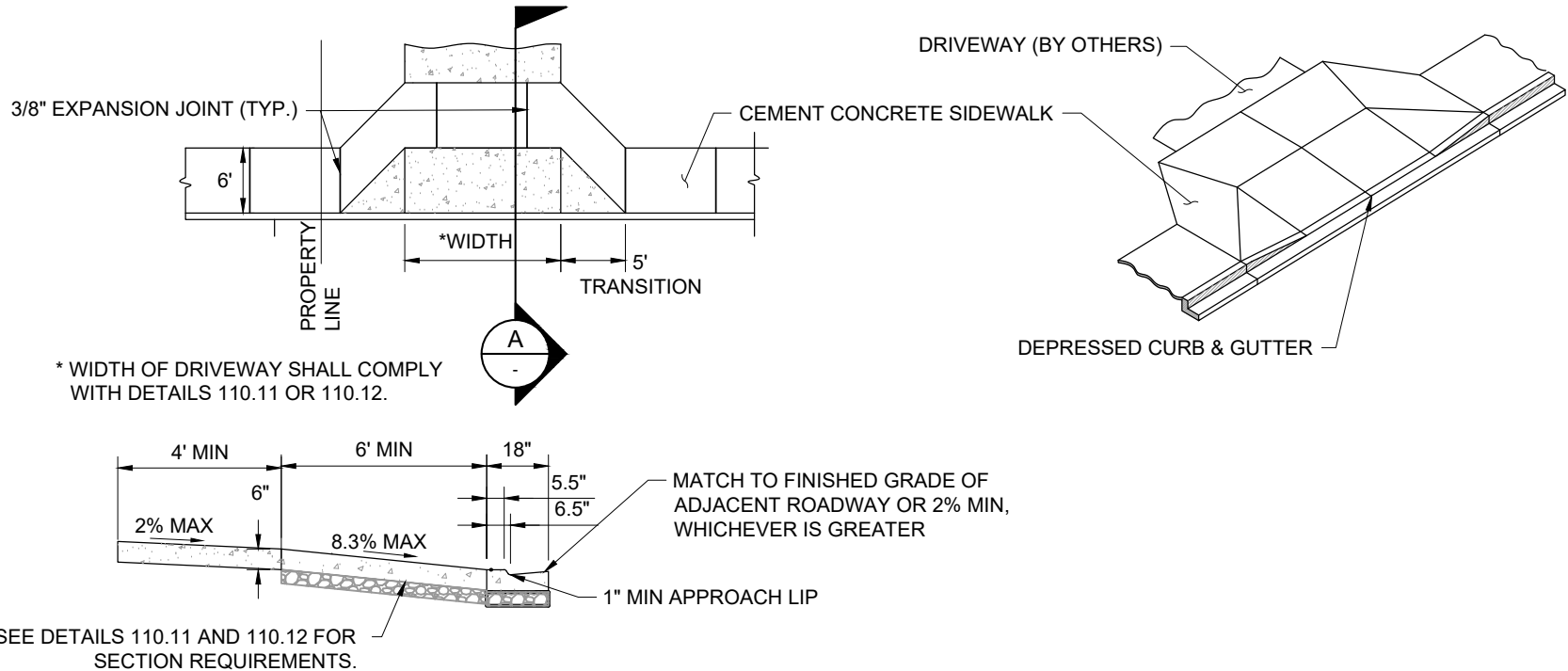


NOTES:

1. NO SLOPE TRANSITION BETWEEN DRIVEWAYS IF LESS THAN 12-FT OF SEPARATION.
2. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



A SIDEWALK CROSS-SECTION
SCALE: N.T.S.

NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE COLLEGE PLACE STANDARD PLAN 110.09 AND 110.10
3. THE WHOLE CURB AND GUTTER SECTION MUST BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
4. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
5. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YIELDING CONDITION.
6. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS.
7. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%, UNLESS ALTERNATE ACCESSIBLE ROUTE IS PROVIDED.
8. ADJUST WING LENGTH TO ENSURE SLOPE FALLS WITHIN MAXIMUM AND MINIMUM SLOPES. WING LENGTHS TO BE THE SAME ON BOTH SIDES OF DRIVEWAY.
9. APPROACHES, WINGS, AND SIDEWALKS SPANNING PLANTING STRIPS SHALL MAINTAIN A 6" THICK SECTION.
10. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

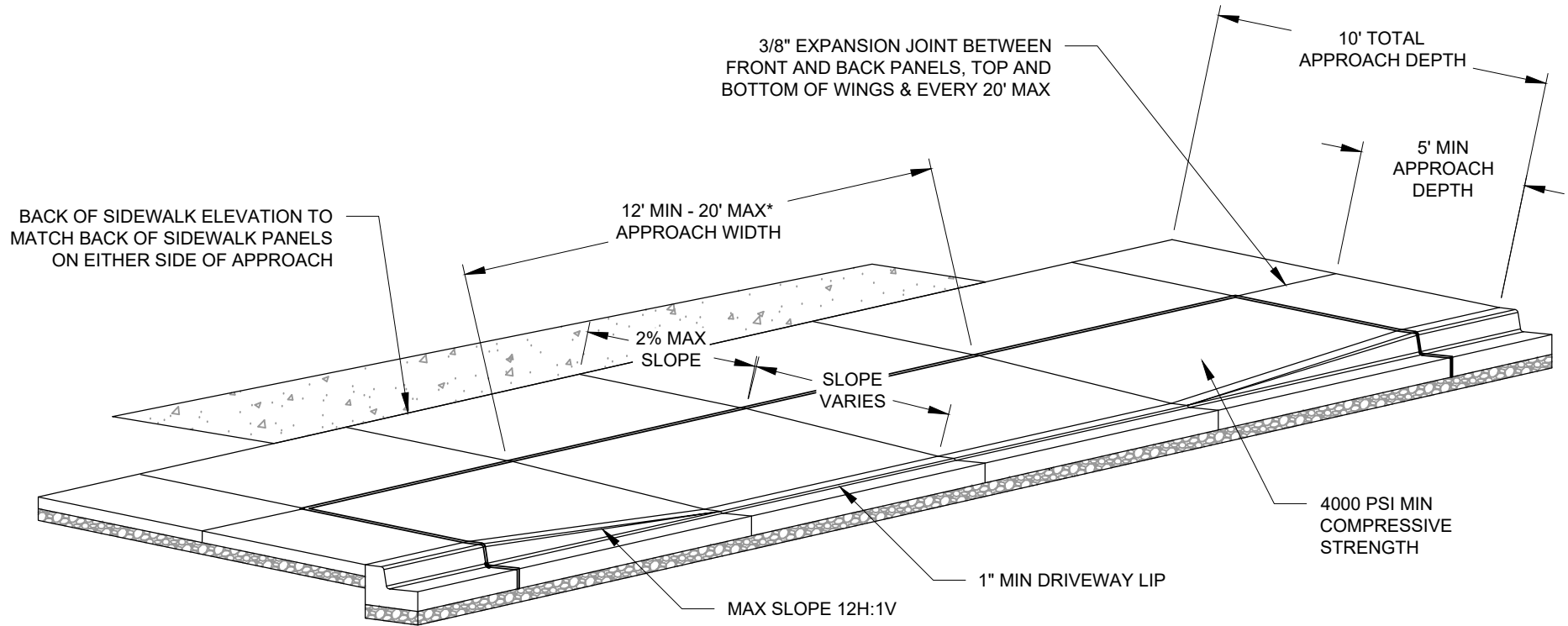
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

CURB TIGHT SIDEWALK

STANDARD PLAN
110.14

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. MINIMUM 48" ACCESSIBLE ROUTE REQUIRED AROUND SLOPES STEEPER THAN 12H:1V.
2. BACK PANEL CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%; FRONT PANEL SLOPE MAY VARY.
3. IF OTHER ACCESSIBLE ROUTE IS PROVIDED, DRIVEWAY FLARES SHALL NOT BE STEEPER THAN 10H:1V. IF OTHER ACCESSIBLE ROUTE IS NOT PROVIDED DRIVEWAY FLARES SHALL NOT BE STEEPER THAN 12H:1V.
4. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN DRIVEWAY APPROACH.
5. STANDARD CURB AND GUTTER REQUIRED.
6. WINGS, APPROACH, AND SIDEWALK BEHIND APPROACH TO BE POURED 6" THICK. SEE STD. PLAN 110.15 FOR COMMERCIAL REINFORCEMENT REQUIREMENTS.
7. REFERENCE ZONING CODE FOR OTHER REQUIREMENTS.
8. SEE STANDARD SPECIFICATION DETAIL 110.15 FOR REQUIRED CROSS-SECTION.
9. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

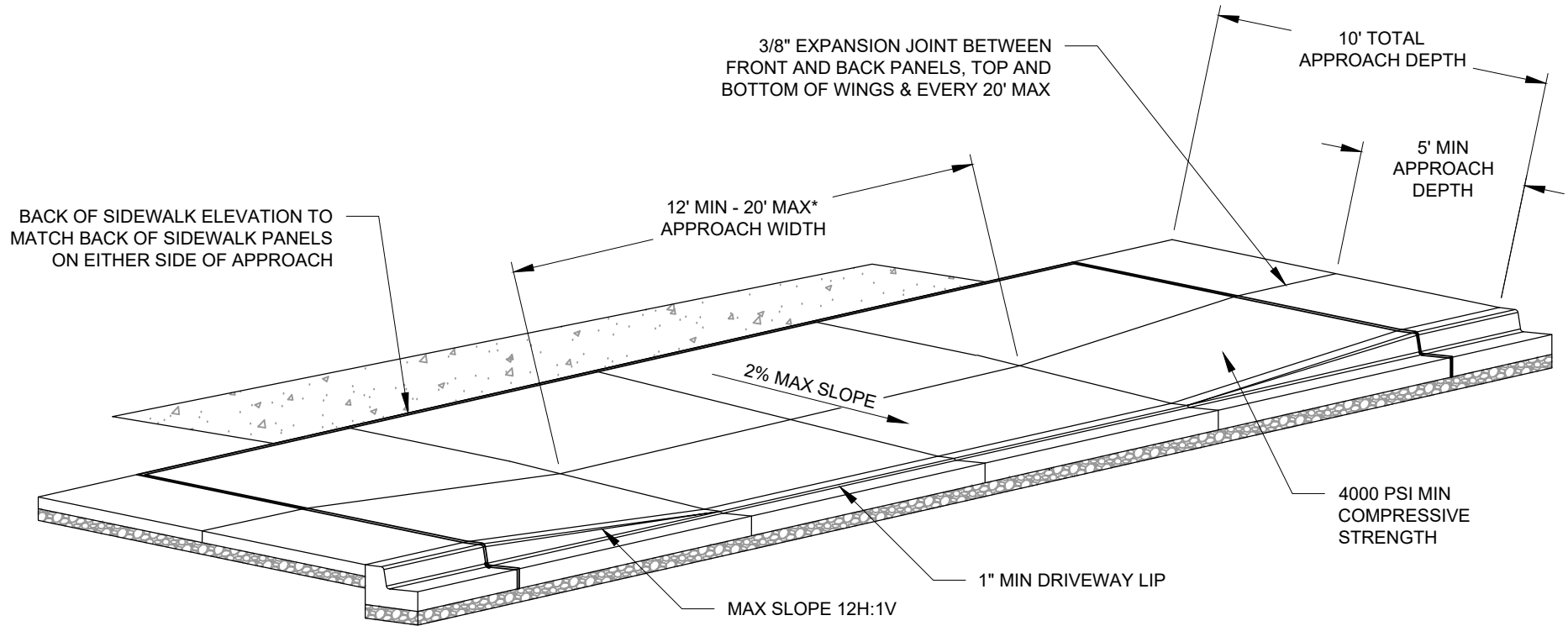
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

10-FOOT WIDE CURB-TIGHT
GRADE-ADJUSTED DRIVEWAY APPROACH

STANDARD PLAN
110.15

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. MINIMUM 48" ACCESSIBLE ROUTE REQUIRED AROUND SLOPES STEEPER THAN 12H:1V.
2. BACK PANEL CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%; FRONT PANEL SLOPE MAY VARY.
3. IF OTHER ACCESSIBLE ROUTE IS PROVIDED, DRIVEWAY FLARES SHALL NOT BE STEEPER THAN 10H:1V. IF OTHER ACCESSIBLE ROUTE IS NOT PROVIDED DRIVEWAY FLARES SHALL NOT BE STEEPER THAN 12H:1V.
4. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN DRIVEWAY APPROACH.
5. STANDARD CURB AND GUTTER REQUIRED.
6. WINGS, APPROACH, AND SIDEWALK BEHIND APPROACH TO BE POURED 6" THICK. SEE STD. PLAN 110.15 FOR COMMERCIAL REINFORCEMENT REQUIREMENTS.
7. REFERENCE ZONING CODE FOR OTHER REQUIREMENTS.
8. SEE STANDARD SPECIFICATION DETAIL 110.15 FOR REQUIRED CROSS-SECTION.
9. CEMENT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

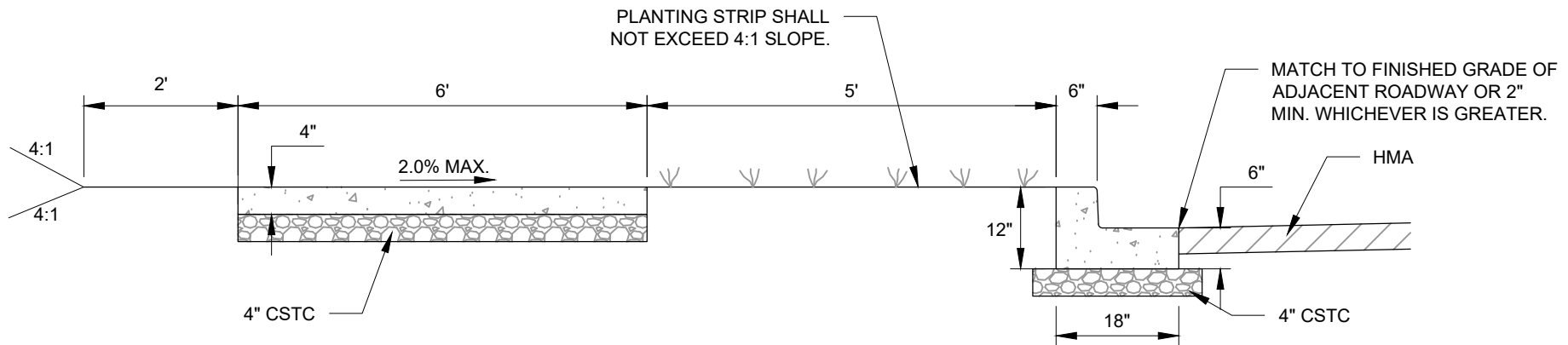
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

10-FOOT WIDE CURB-TIGHT
LOW-PROFILE DRIVEWAY APPROACH

STANDARD PLAN
110.16

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK PANEL, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE CITY STANDARD PLAN 110.09 AND 110.10.
3. CURB AND GUTTER SECTION SHALL BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
4. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
5. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YEILDING CONDITION.
6. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS PER STANDARD SPECIFICATIONS.
7. CEMENT CONCRETE FOR SIDEWALK, CURB, AND GUTTERS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.

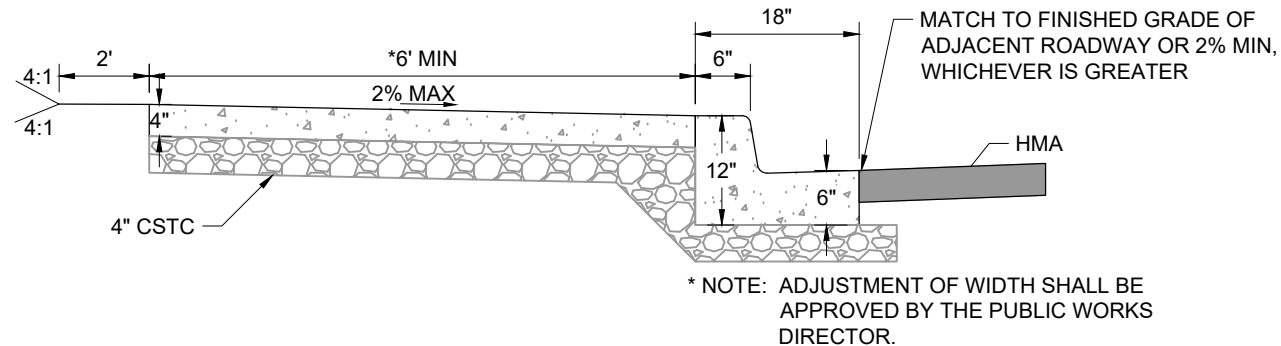
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

OFF-SET SIDEWALK WITH GUTTER
SECTION

STANDARD PLAN
110.17

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

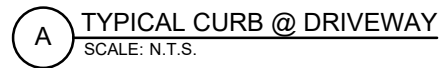
1. CURB TIGHT SIDEWALK TO ONLY BE ALLOWED WHEN APPROVED BY THE PUBLIC WORKS DIRECTOR.
2. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK PANEL, AND GUTTER EDGES.
3. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE CITY STANDARD PLAN 110.09 AND 110.10.
4. CURB AND GUTTER SECTION SHALL BE COMPLETELY REMOVED AND REPLACED, UNLESS SAWCUTTING OF CURB IS APPROVED BY CITY ENGINEER.
5. ALL SIDEWALK EDGES SHALL HAVE A 3/4" RADIUS.
6. CRUSHED SURFACING TOP COURSE (CSTC) MUST BE UNIFORMLY MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YEILDING CONDITION.
7. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS PER STANDARD SPECIFICATIONS.
8. CEMENT CONCRETE FOR SIDEWALK, CURB, AND GUTTERS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI - 28 DAY.
9. MAILBOXES SHALL BE SET BEHIND THE BACK OF SIDEWALK

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

CURB-TIGHT SIDEWALK WITH
GUTTER SECTION

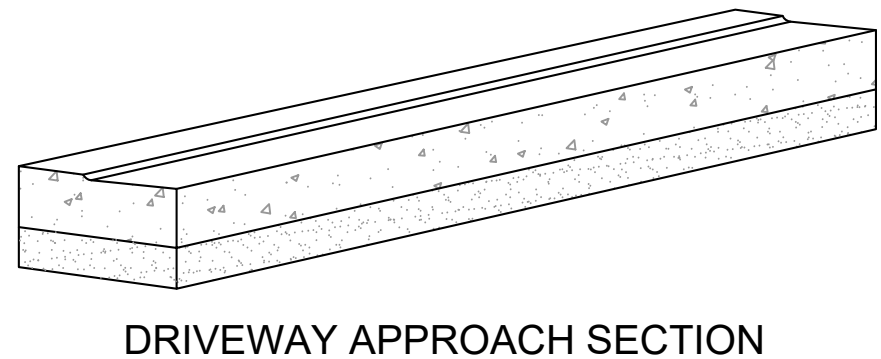
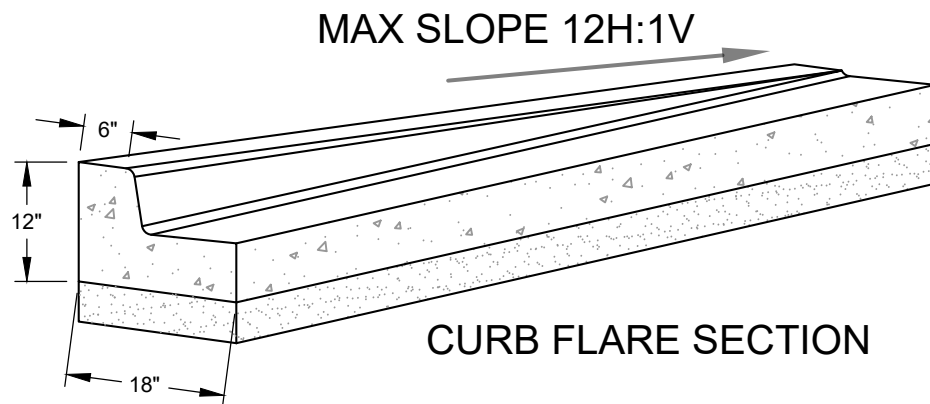
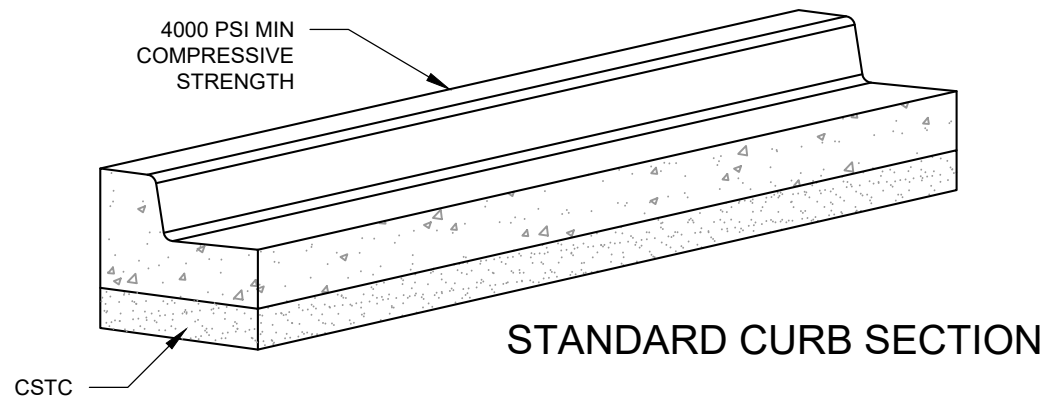
STANDARD PLAN
110.18



STANDARD PLAN

110.19

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



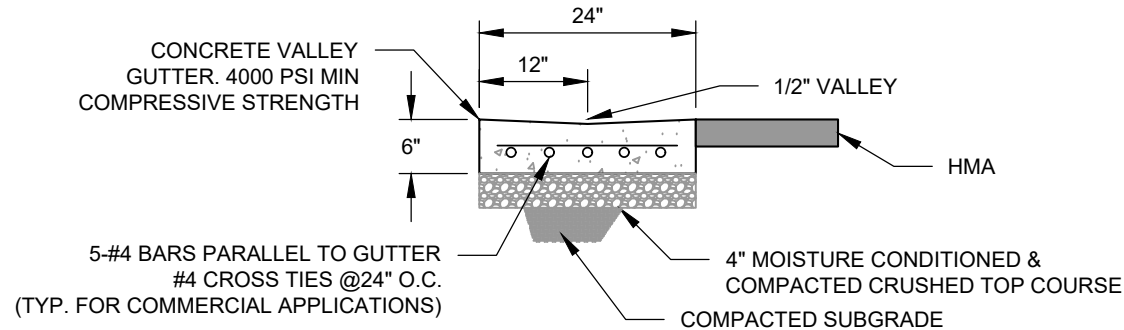
This drawing is not to scale

CITY ENGINEER: Nicola P. Metzger, P.E.
LAST REVISION: JUNE 2005

CURB & GUTTER
ISOMETRIC

STANDARD PLAN
110.20

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. ALL REPLACEMENT WORK SHALL BE SAW CUT SMOOTH AND EVEN AT THE CURB, SIDEWALK, AND GUTTER EDGES.
2. ASPHALT SHALL BE SAW CUT BACK 12" AND HAVE A SMOOTH EDGE BEFORE BEING PATCHED. SEE DETAIL STANDARD 110.09 & 110.10.
3. NO MONOLITHIC POURS ARE ALLOWED. SIDEWALKS, CURB & GUTTER, AND DRIVEWAYS SHALL BE POURED SEPARATELY WITH EXPANSION JOINTS PER STANDARD SPECIFICATIONS.
4. CRUSHED SURFACING TOP COURSE MUST BE MOISTURE CONDITIONED BEFORE PLACEMENT AND COMPACTED TO A NON-YIELDING CONDITION.
5. VALLEY GUTTERS SHALL NOT BE PLACED WITHIN MARKED OR UNMARKED CROSSWALK ZONES.

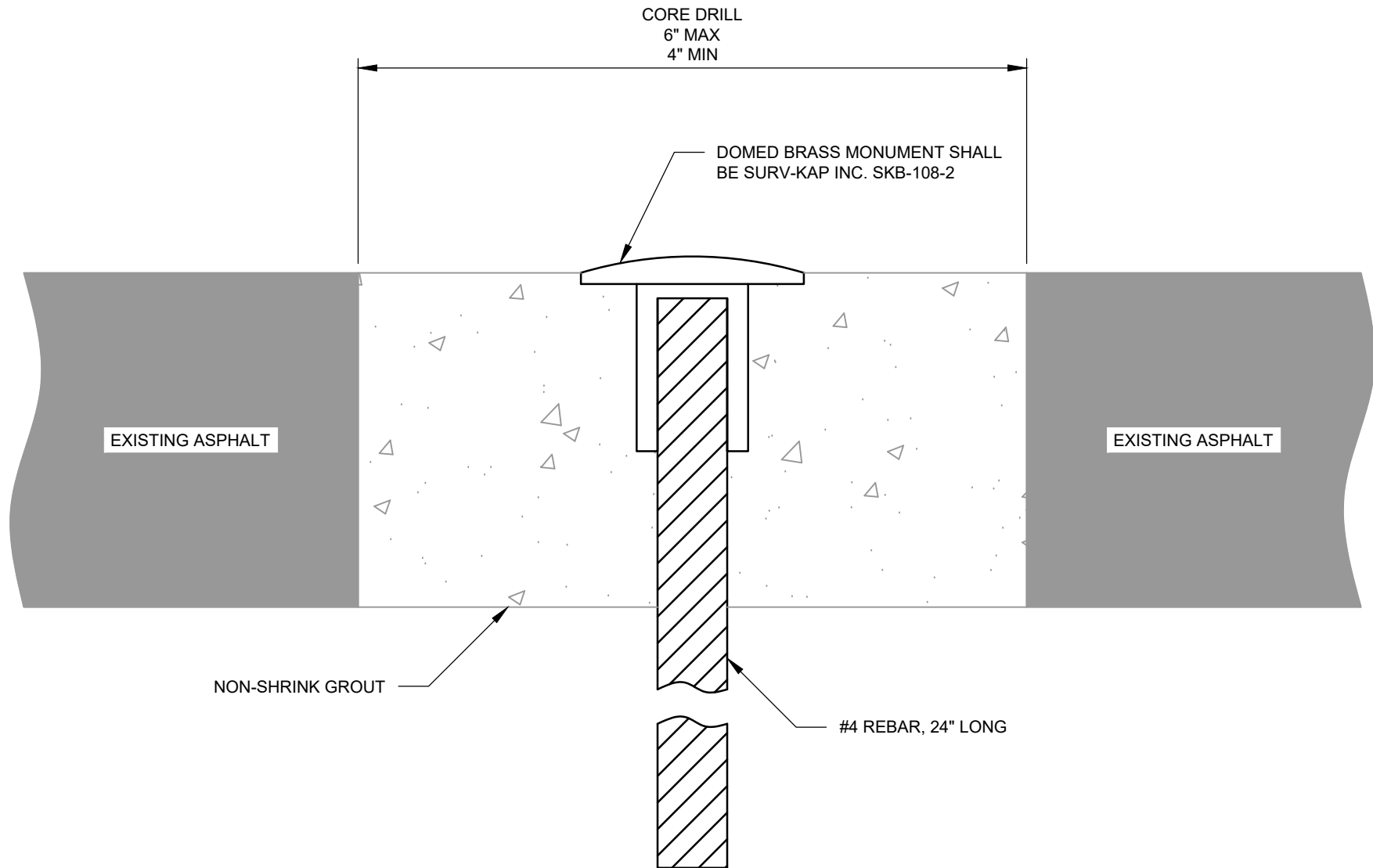
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

VALLEY GUTTER

STANDARD PLAN
110.21

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



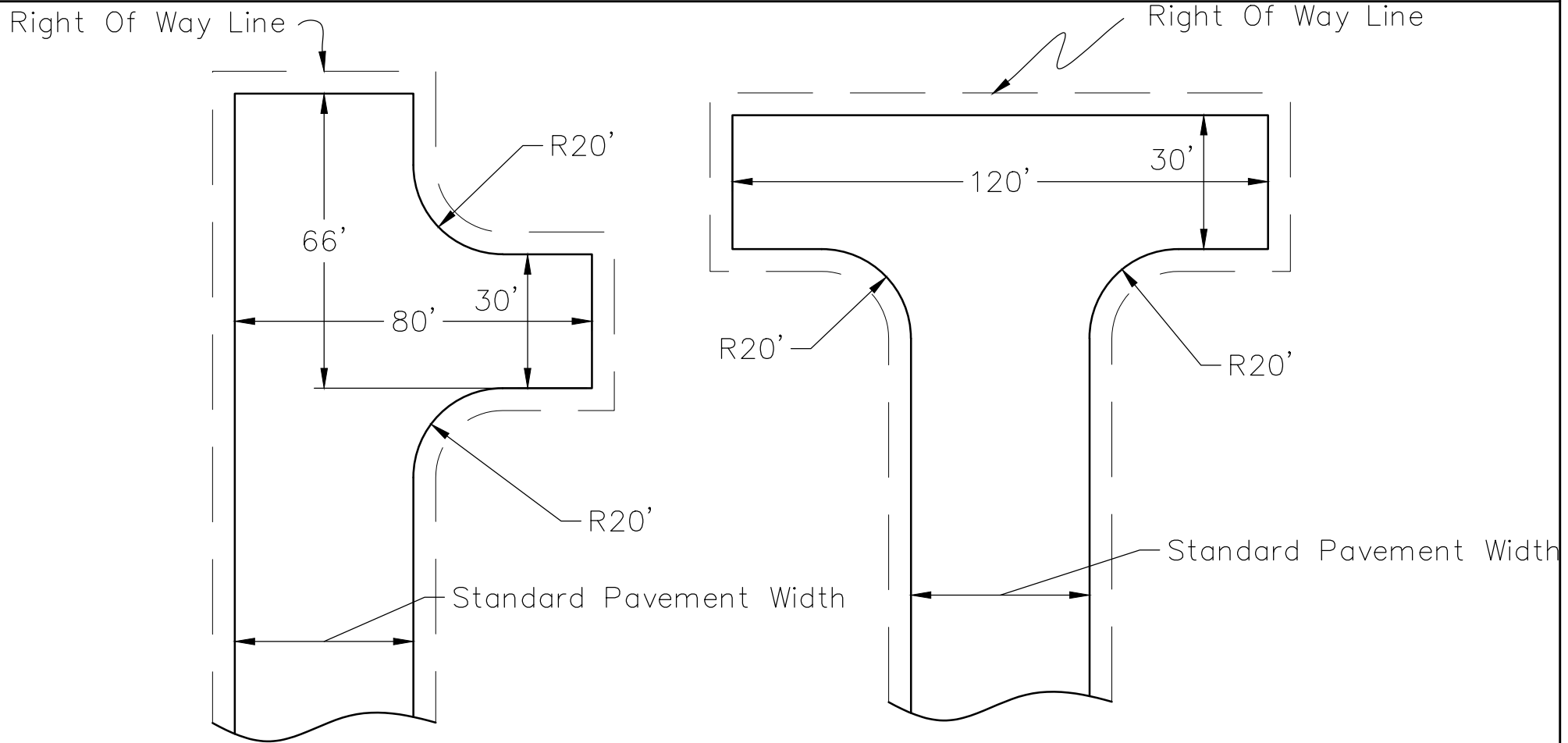
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

MONUMENT PLACEMENT
DETAIL

STANDARD PLAN
110.22

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



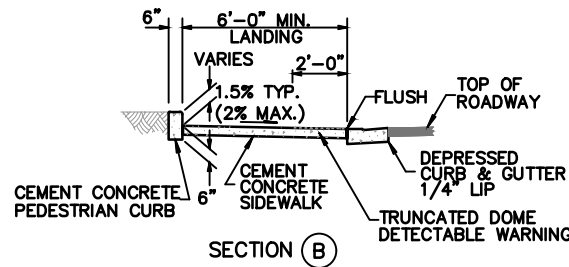
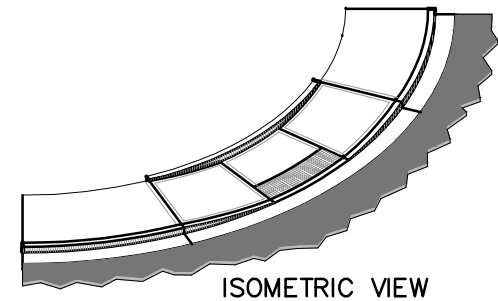
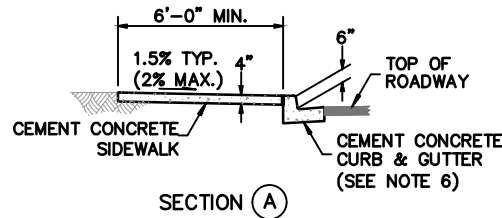
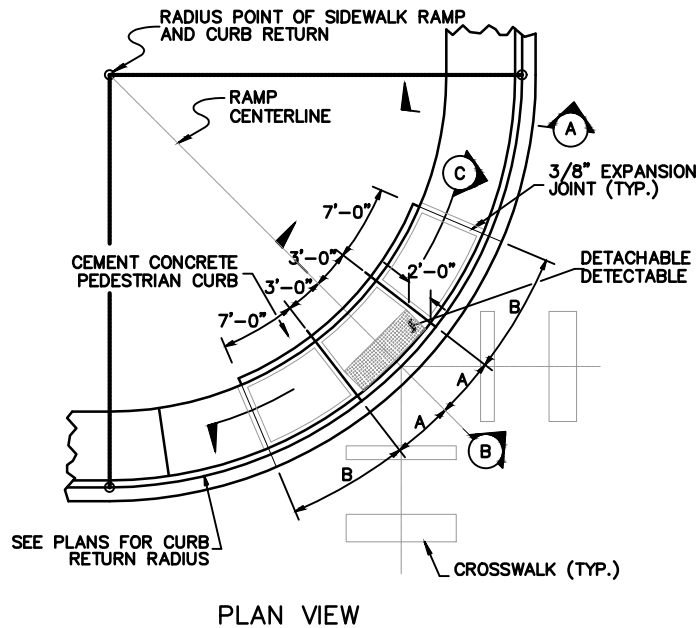
TYPE A

TYPE B

NOT FOR USE IN ANY PUBLIC OR PRIVATE STREETS. USE DEPENDANT ON FIRE MARSHAL APPROVAL. ANY VARIATION FROM THIS DESIGN OR USE OF THIS TURNAROUND AT ANY SPECIFIC SITE MUST BE APPROVED BY THE CITY ENGINEER. AREA SHALL BE SIGNED "NO PARKING". ADDITIONAL SIGNING SHALL BE DETERMINED BY THE CITY ENGINEER.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

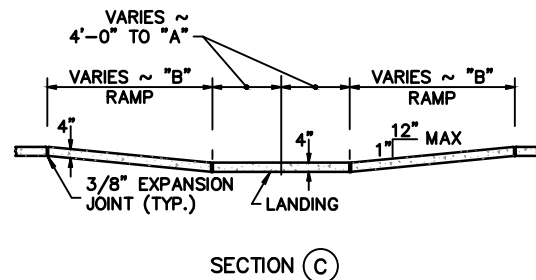


NOTES

1. RAMP SLOPE SHALL NOT BE STEEPER THAN 12H:1V.
2. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%.
3. MINIMUM 48" X 48" LANDING REQUIRED AT TOP AND BOTTOM OF RAMP.
4. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN FRONT OF RAMP ACCESS AREAS.
5. DETACHABLE TRUNCATED DOME DETECTABLE WARNING SHALL BE YELLOW CAST IN PLACE BY ARMOR - TILE OR APPROVED EQUAL. SEE CITY STANDARD PLAN 110.36.

FIVE FOOT WIDE SIDEWALK AND 6" CURB		
RADIUS (AT CURB FACE)	A	B
0 FEET	3'-0"	6'-0"
20 FEET	4'-2"	8'-4"
30 FEET	3'-8"	7'-4"
40 FEET	3'-6"	7'-0"
50 FEET	3'-4.5"	6'-9"
60 FEET	3'-4"	6'-8"
70 FEET	3'-3.5"	6'-7"

INTERMEDIATE RADII CAN BE INTERPOLATED



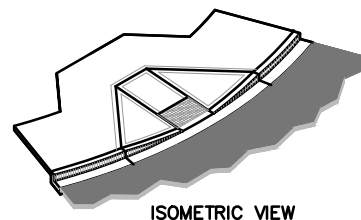
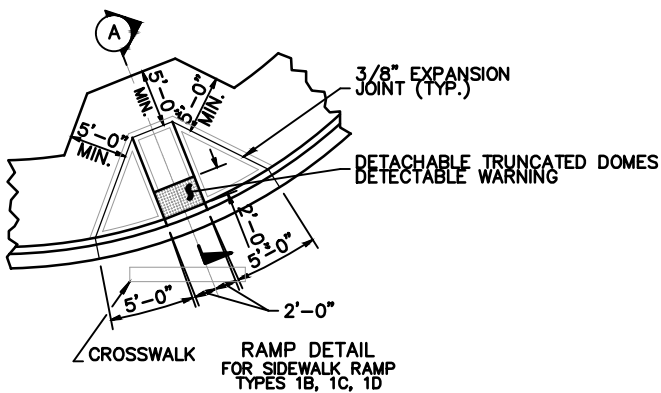
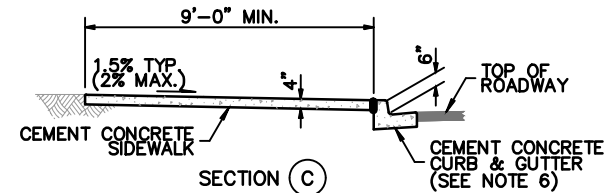
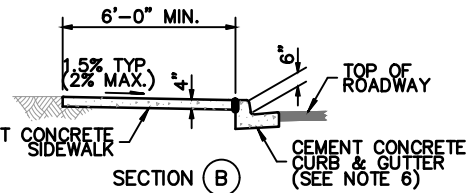
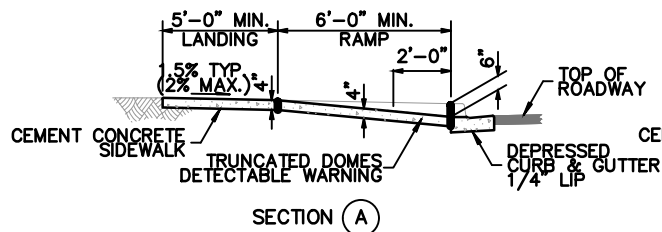
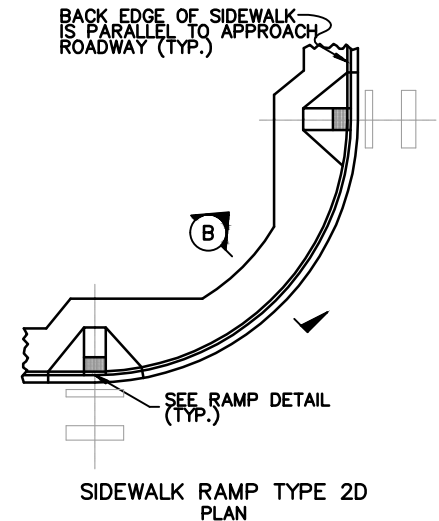
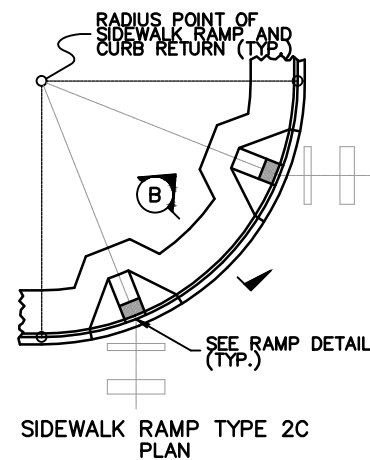
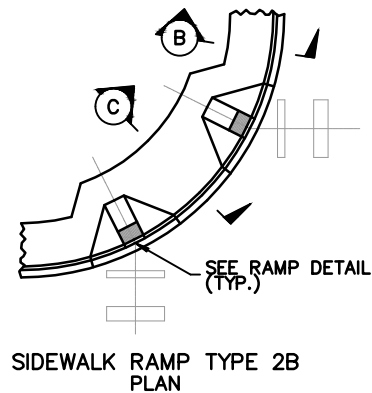
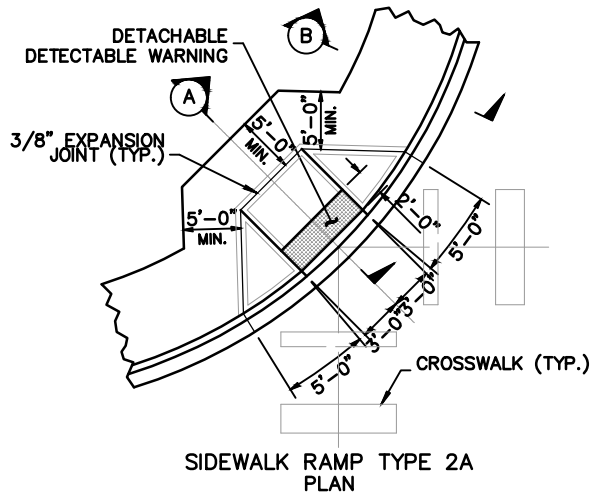
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: NOVEMBER 2013

ADA SIDEWALK RAMP
TYPE A

STANDARD PLAN
110.30

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

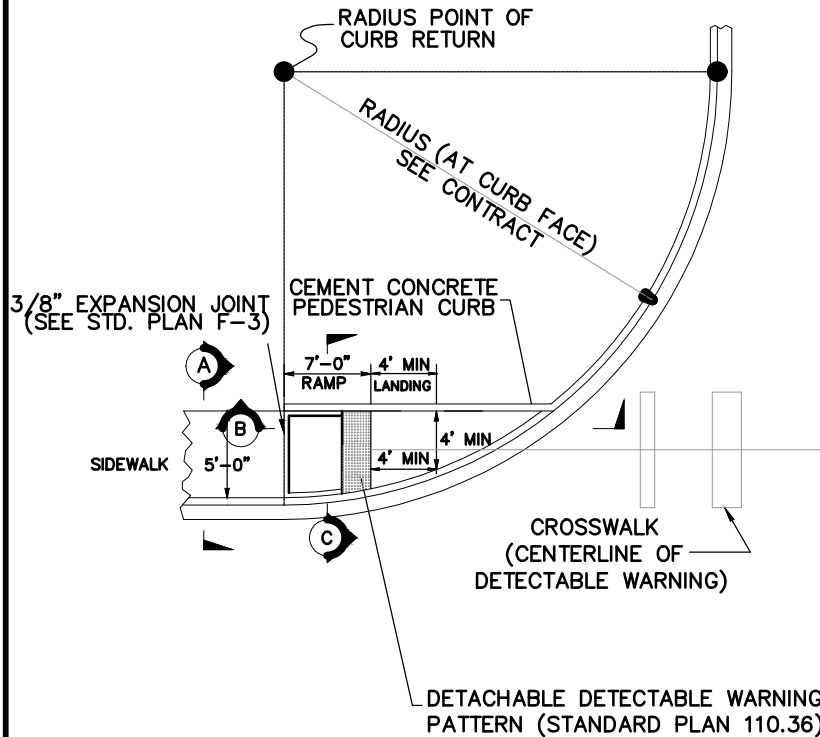


NOTES

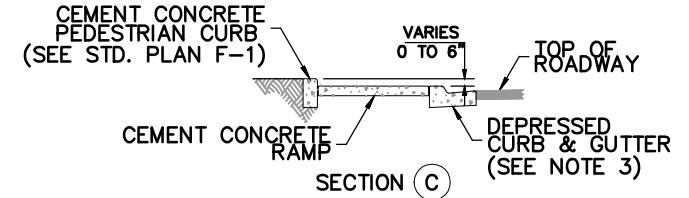
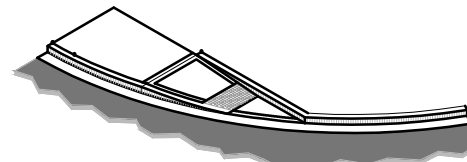
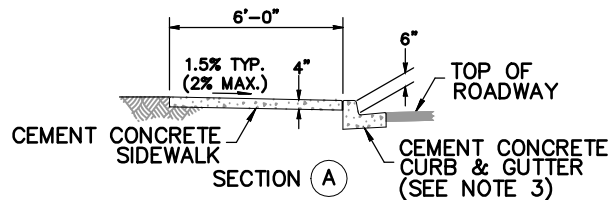
1. RAMP SLOPE SHALL NOT BE STEEPER THAN 12H:1V.
2. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%.
3. MINIMUM 48" X 48" LANDING REQUIRED AT TOP AND BOTTOM OF RAMP.
4. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN FRONT OF RAMP ACCESS AREAS.
5. DETACHABLE TRUNCATED DOME DETECTABLE WARNING SHALL BE YELLOW CAST IN PLACE BY ARMOR-TILE OR APPROVED EQUAL. SEE CITY STANDARD PLAN 110.36

This drawing is not to scale

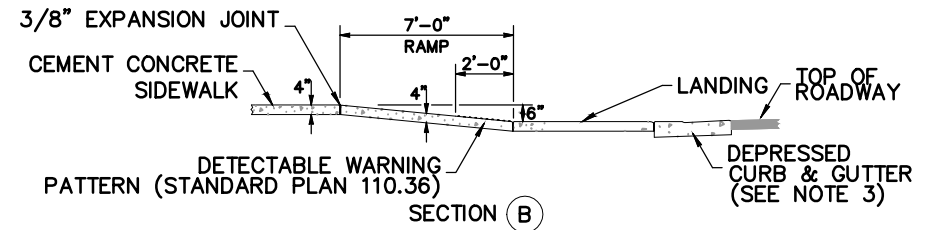
CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



SIDEWALK RAMP TYPE C
PLAN



SECTION C



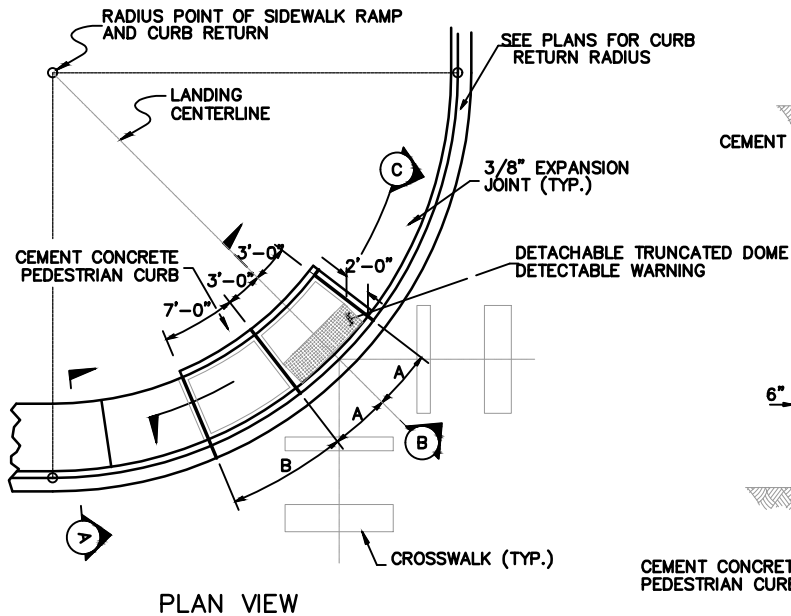
SECTION B

NOTES

1. RAMP SLOPE SHALL NOT BE STEEPER THAN 12H:1V. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%.
2. MINIMUM 48" X 48" LANDING REQUIRED AT TOP AND BOTTOM OF RAMP.
3. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN FRONT OF RAMP ACCESS AREAS.
4. DETACHABLE TRUNCATED DOME DETECTABLE WARNING SHALL BE YELLOW CAST IN PLACE BY ARMOR-TILE OR APPROVED EQUAL. SEE CITY STANDARD PLAN 110.36.

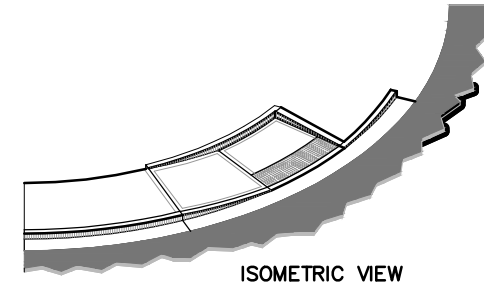
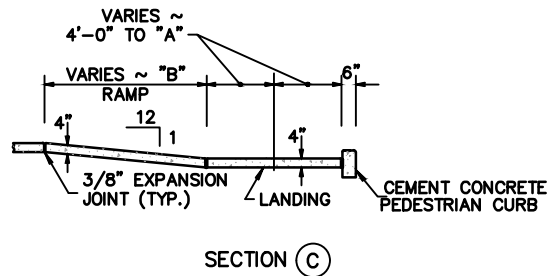
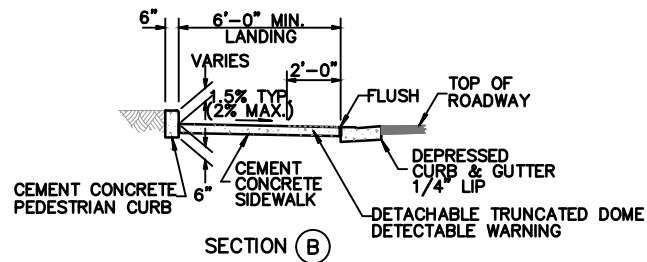
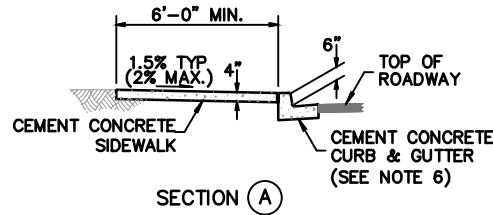
This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



FIVE FOOT WIDE SIDEWALK AND 6" CURB		
RADIUS (AT CURB FACE)	A	B
20 FEET	4'-2"	8'-4"
30 FEET	3'-8"	7'-4"
40 FEET	3'-6"	7'-0"
50 FEET	3'-4.5"	6'-9"
60 FEET	3'-4"	6'-8"
70 FEET	3'-3.5"	6'-7"

INTERMEDIATE RADII CAN BE INTERPOLATED



NOTES

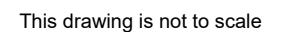
1. RAMP SLOPE SHALL NOT BE STEEPER THAN 12H:1V.
2. CROSS SLOPE TYPICAL 1.5% BUT SHALL NOT BE STEEPER THAN 2%.
3. MINIMUM 48" X 48" LANDING REQUIRED AT TOP AND BOTTOM OF RAMP.
4. DRAINAGE STRUCTURES, JUNCTION BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN FRONT OF RAMP ACCESS AREAS.
5. DETACHABLE TRUNCATED DOME DETECTABLE WARNING SHALL BE YELLOW CAST IN PLACE BY ARMOR - TILE OR APPROVED EQUAL. SEE CITY STANDARD PLAN 110.36.

This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: NOVEMBER 2013

ADA SIDEWALK RAMP
TYPE A1

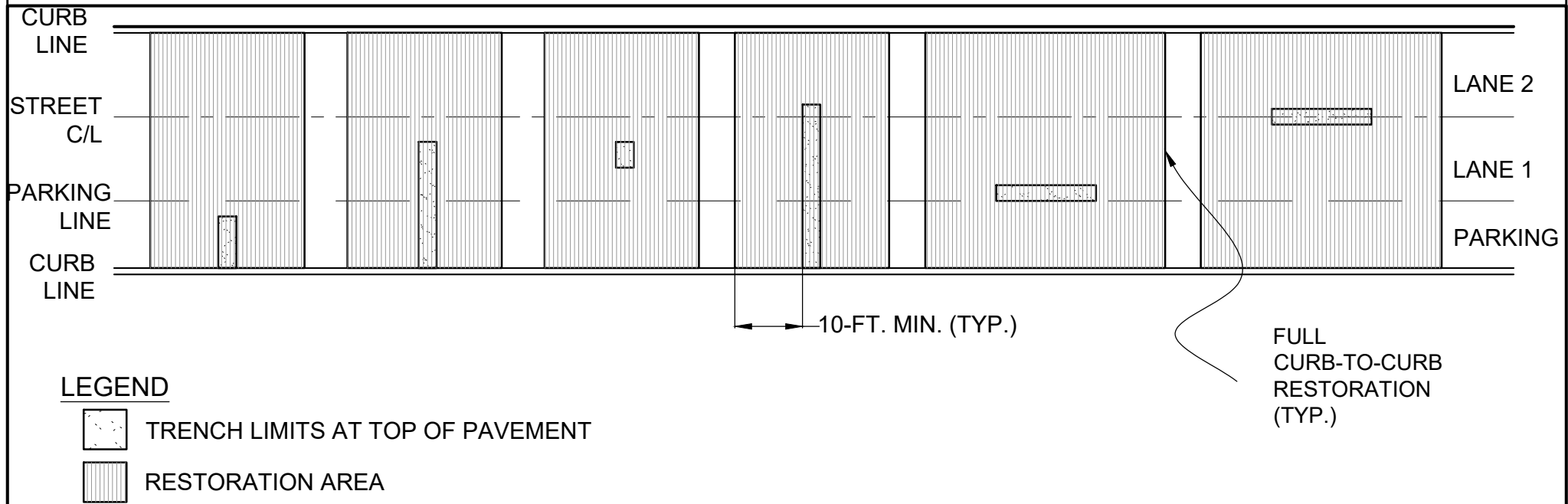
STANDARD PLAN
110.34



STANDARD PLAN

110.36

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



LEGEND



TRENCH LIMITS AT TOP OF PAVEMENT



RESTORATION AREA

NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- STREETS AT "NO CUT" RESTORATION LEVEL MAY NOT BE CUT UNLESS APPROVED IN ADVANCE BY CITY COUNCIL.
- RESTORATION AREA EXTENDS CURB-TO-CURB AND 10 FT. FROM THE TERMINUS OF TRENCH.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND COMPACTED TO 95%. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION TO 90% REQUIRED.
- ALL CUTS SHALL BE PERPENDICULAR OR PARALLEL TO DIRECTION OF TRAVEL.
- EXAMPLES ABOVE ARE NOT EXHAUSTIVE. STREET CUT RESTORATION STANDARDS TO BE APPLIED TO OTHER TRENCH CONFIGURATIONS.

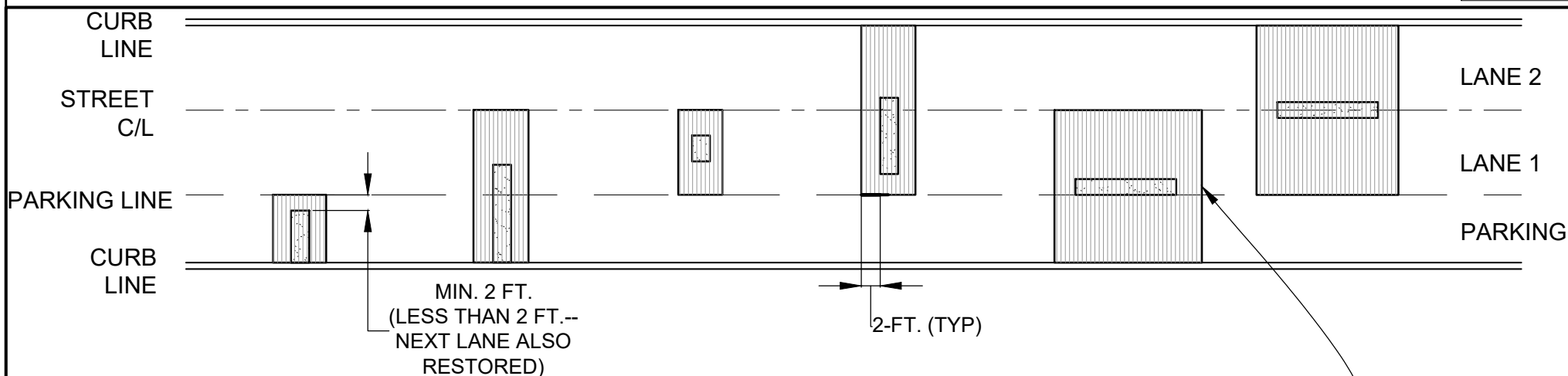
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

"NO CUT" RESTORATION STANDARDS
(COUNCIL WAIVER REQUIRED)

STANDARD PLAN
110.50

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



LEGEND



TRENCH LIMITS AT TOP OF PAVEMENT



RESTORATION AREA

NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- FULL WIDTH OF ANY LANE WITHIN 2 FT. OF A TRENCH SHALL BE RESTORED AND SHALL EXTEND A MINIMUM OF 2 FT. FROM TERMINUS OF TRENCH.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND COMPACTED TO 95%. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION TO 90% REQUIRED.
- ALL CUTS SHALL BE PERPENDICULAR OR PARALLEL TO DIRECTION OF TRAVEL. MIN. LONGITUDINAL RESTORATION LENGTH IS 6 FT.
- EXAMPLES ABOVE ARE NOT EXHAUSTIVE. STREET CUT RESTORATION STANDARDS TO BE APPLIED TO OTHER TRENCH CONFIGURATIONS.

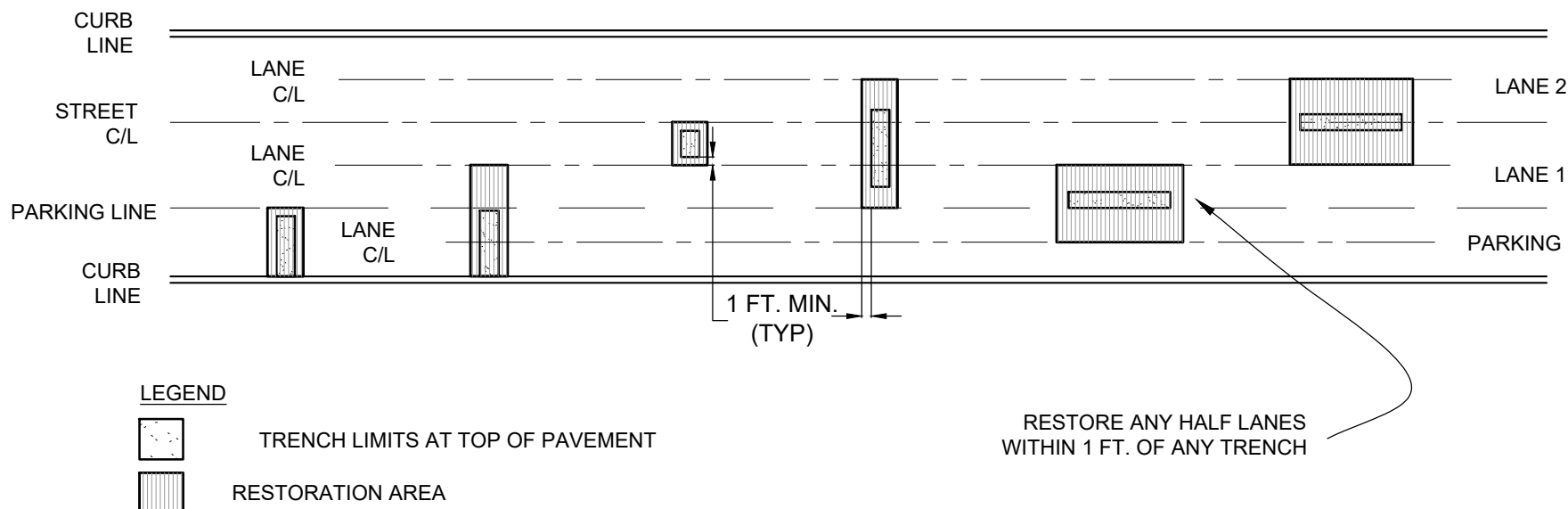
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

FULL LANE STREET RESTORATION

STANDARD PLAN
110.51

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

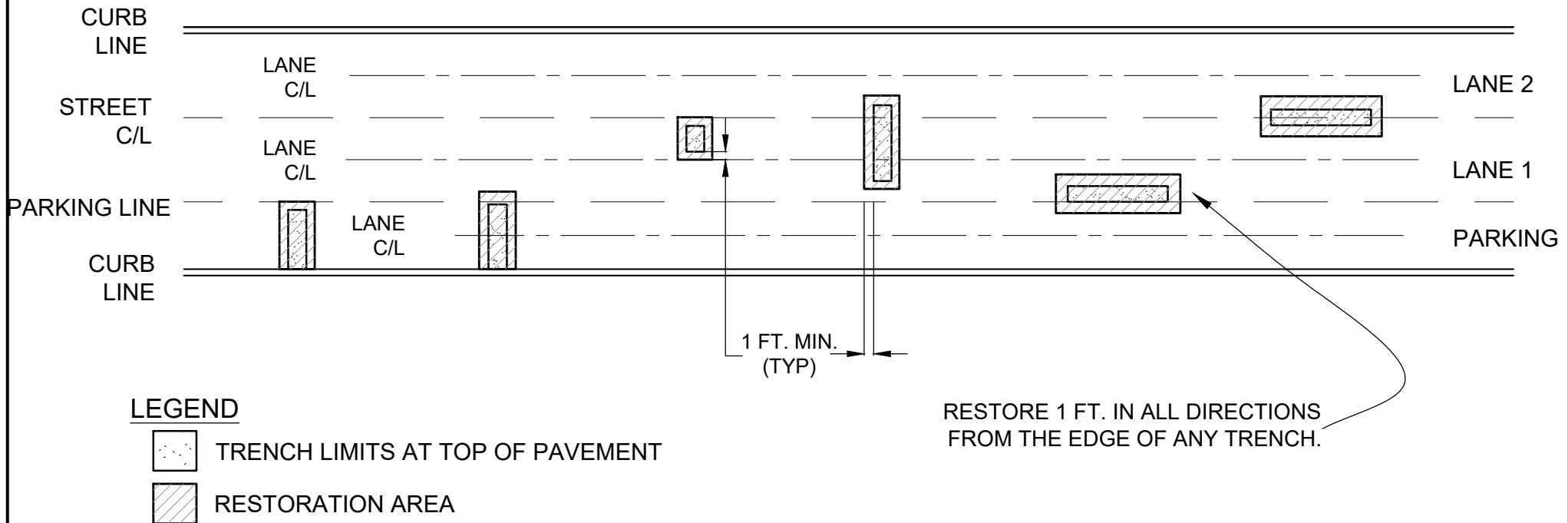


NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- ANY "HALF LANES" (LANE EDGE TO LANE CENTERLINE) WITHIN 1 FT. OF A TRENCH SHALL BE RESTORED AND SHALL EXTEND A MINIMUM OF 1' FROM TERMINUS OF TRENCH.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND COMPACTED TO 95%. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION TO 90% REQUIRED.
- ALL CUTS SHALL BE PERPENDICULAR OR PARALLEL TO DIRECTION OF TRAVEL. MIN. LONGITUDINAL RESTORATION LENGTH = 6 FT.
- EXAMPLES ABOVE ARE NOT EXHAUSTIVE. STREET CUT RESTORATION STANDARDS TO BE APPLIED TO OTHER TRENCH CONFIGURATIONS.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- ALL AREAS WITHIN 1 FT. OF A TRENCH SHALL BE RESTORED.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND MECHANICALLY COMPACTED. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION REQUIRED.
- ALL CUTS SHALL BE PERPINDICULAR OR PARALLEL TO DIRECTION OF TRAVEL.

This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

TRENCH STREET RESTORATION

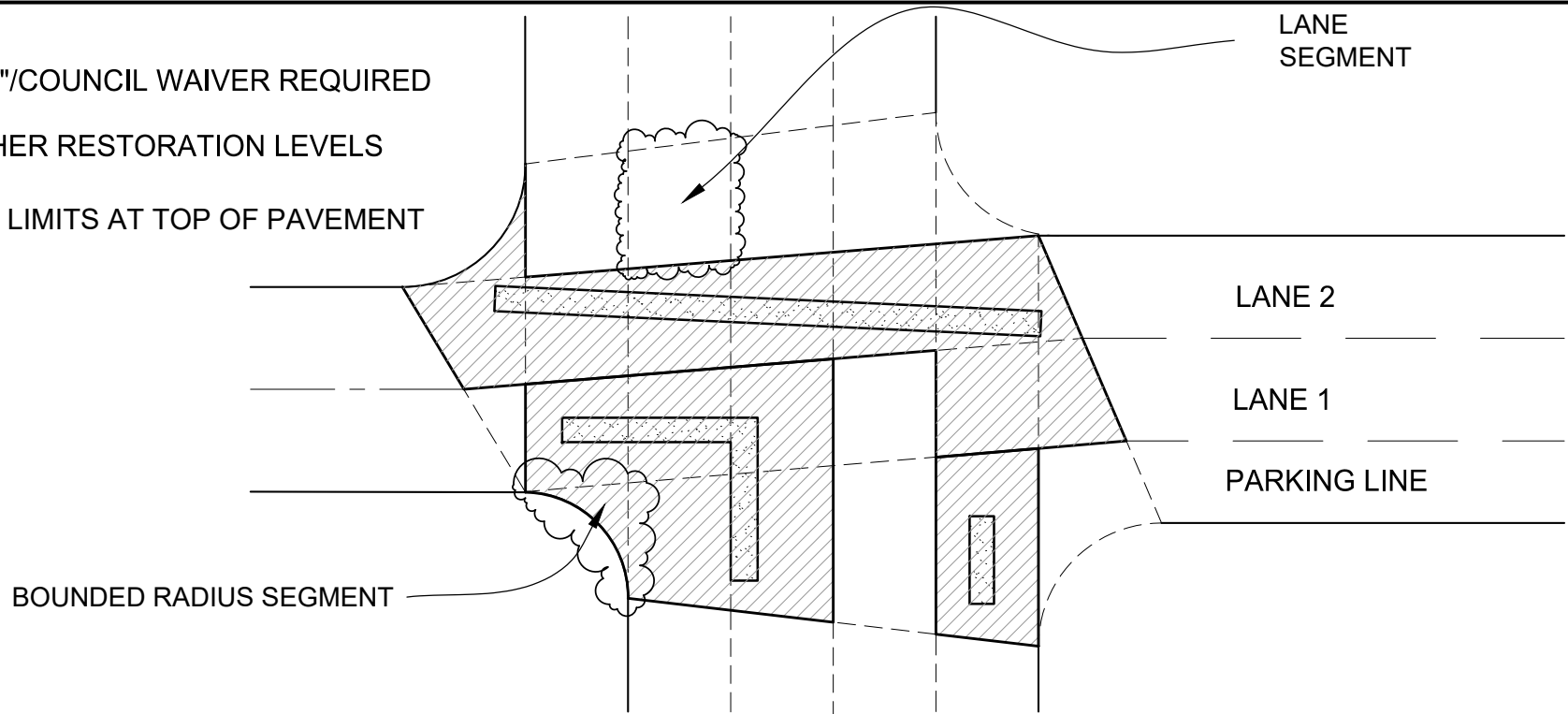
STANDARD PLAN
110.53

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



LEGEND

-  "NO CUT"/COUNCIL WAIVER REQUIRED
-  ALL OTHER RESTORATION LEVELS
-  TRENCH LIMITS AT TOP OF PAVEMENT



NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- FULL INTERSECTION RESTORATION REQUIRED FOR ANY TRENCH IN INTERSECTIONS AT "NO CUT" RESTORATION LEVEL; AT ALL OTHER RESTORATION LEVELS, ALL LANE SEGMENTS WITHIN TWO FEET OF ANY TRENCH AND ANY BOUNDED RADIUS SEGMENTS SHALL BE RESTORED.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND COMPACTED TO 95%. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION TO 90% REQUIRED.
- ALL CUTS SHALL BE PERPENDICULAR OR PARALLEL TO DIRECTION OF TRAVEL.

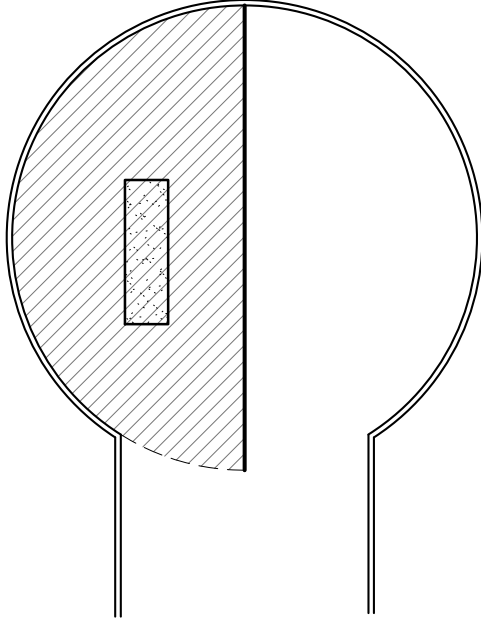
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

INTERSECTION RESTORATION

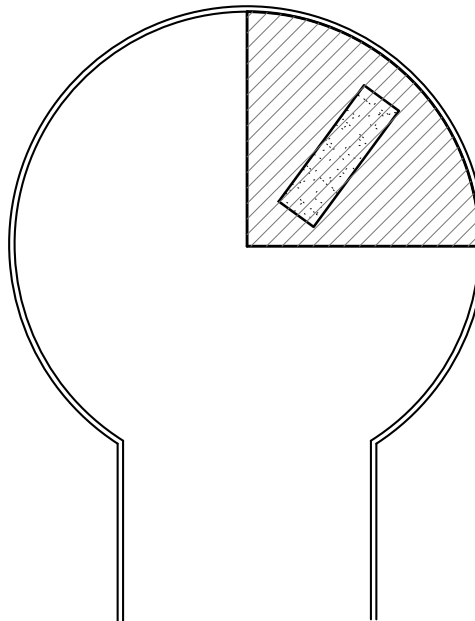
STANDARD PLAN
110.54

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



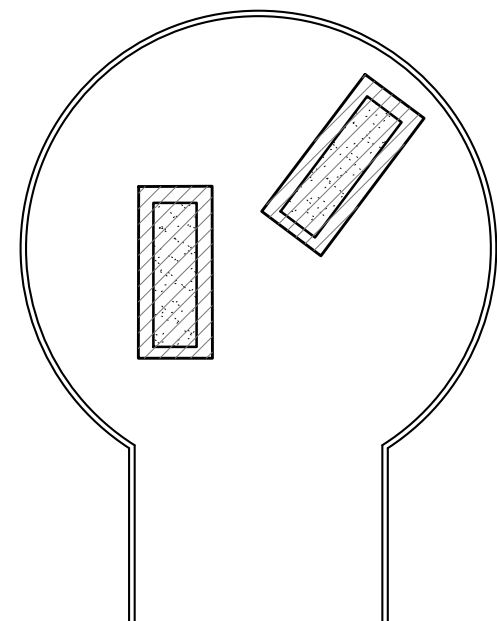
"NO CUT"/COUNCIL WAIVER REQUIRED

IF ANY PART OF THE PATCH EXTRUDES INTO ANOTHER HALF OF THE CUL-DE-SAC, THAT ADDITIONAL HALF SHALL BE REPLACED.



FULL/HALF LANE RESTORATION LEVEL

IF ANY PART OF THE PATCH EXTRUDES INTO ANOTHER QUARTER OF THE CUL-DE-SAC, THAT QUARTER SHALL ALSO BE REPLACED.



TRENCH ONLY RESTORATION LEVEL

PAVEMENT SHALL BE RESTORED 1-FT BEYOND EXTENT OF PATCH

NOTES

- PRIOR CITY APPROVAL REQUIRED FOR TRENCHING OR PLACEMENT OF UTILITIES IN CITY ROW.
- ROAD SURFACE TO BE REMOVED FROM RESTORATION AREA AND REPLACED WITH HMA MIX REQUIRED BY CITY AND COMPACTED TO 95%. PAVEMENT PATCH JOINTS TO BE SEALED.
- CRUSHED ROCK BASE COURSE REMOVAL NOT REQUIRED IF IN PLACE TO CITY STANDARDS. OTHERWISE PLACEMENT AND COMPACTION TO 90% REQUIRED.
- ALL CUTS SHALL BE PERPINDICULAR OR PARALLEL TO DIRECTION OF TRAVEL.

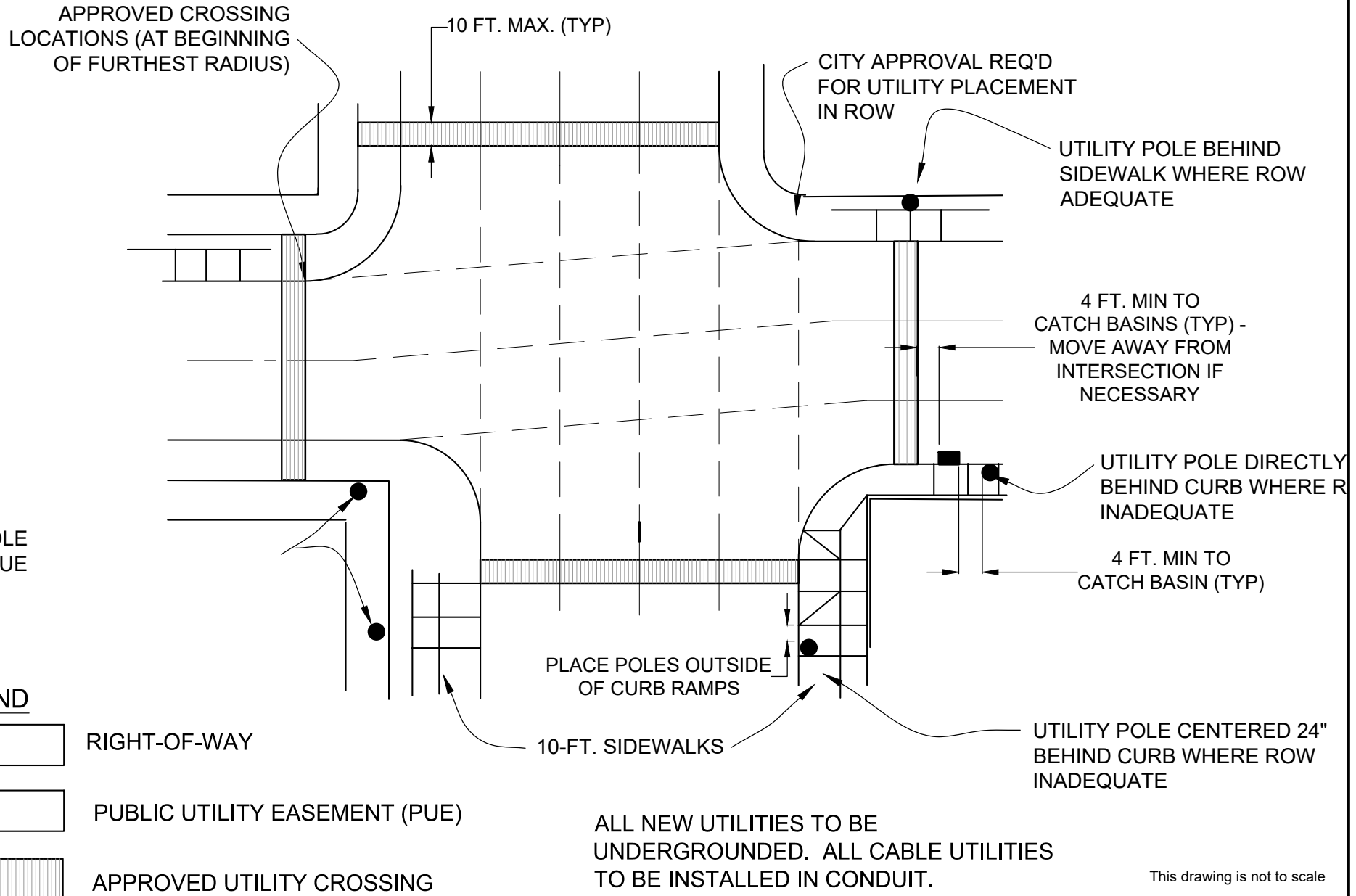
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

CUL-DE-SAC RESTORATION

STANDARD PLAN
110.55

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



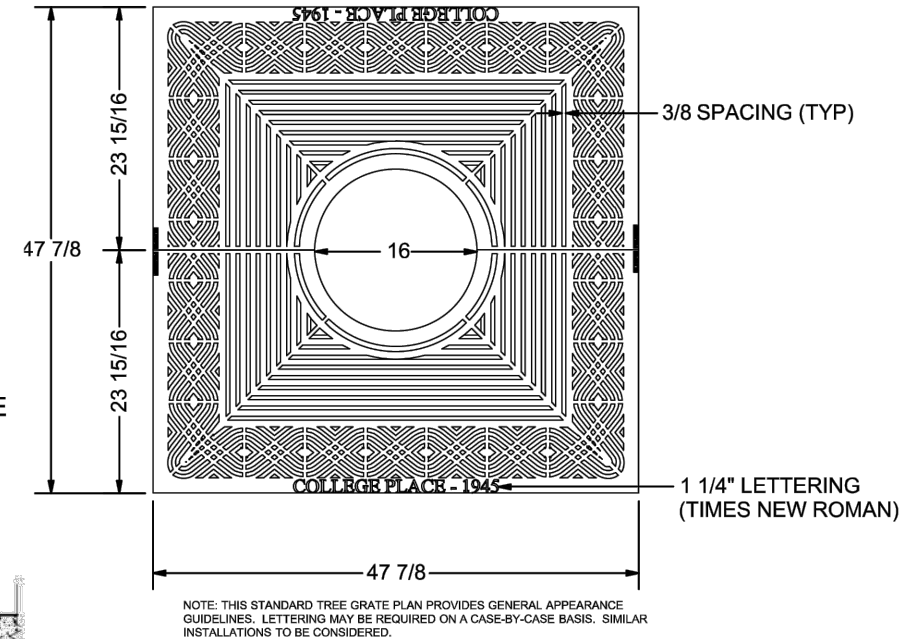
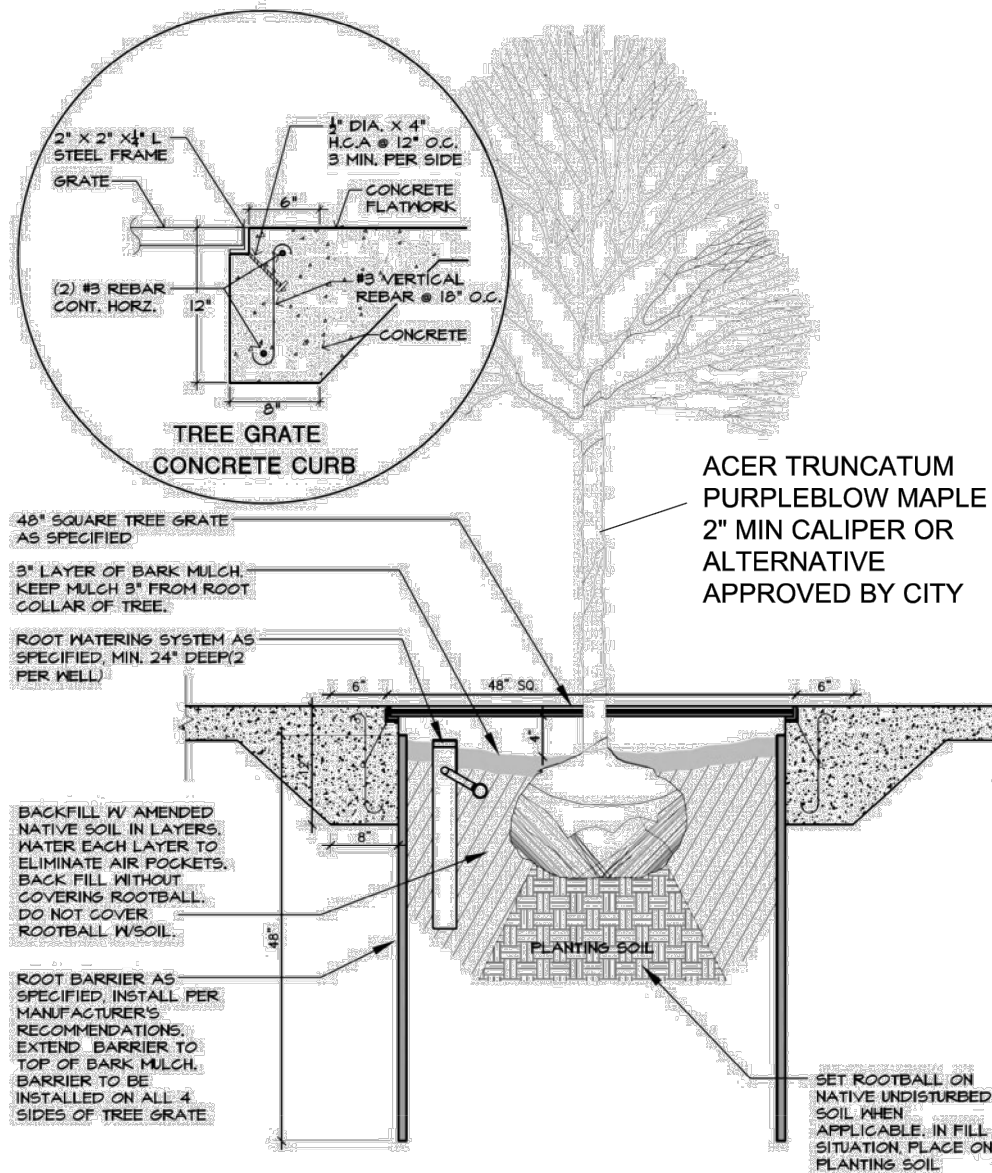
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

FRANCHISE UTILITY CORRIDORS

STANDARD PLAN
110.60

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



TREE GRATE NOTES:
THIS STANDARD TREE GRATE PLAN PROVIDES GENERAL APPEARANCE GUIDELINES. LETTERING MAY BE REQUIRED ON A CASE-BY-CASE BASIS. SIMILAR INSTALLATIONS TO BE CONSIDERED.

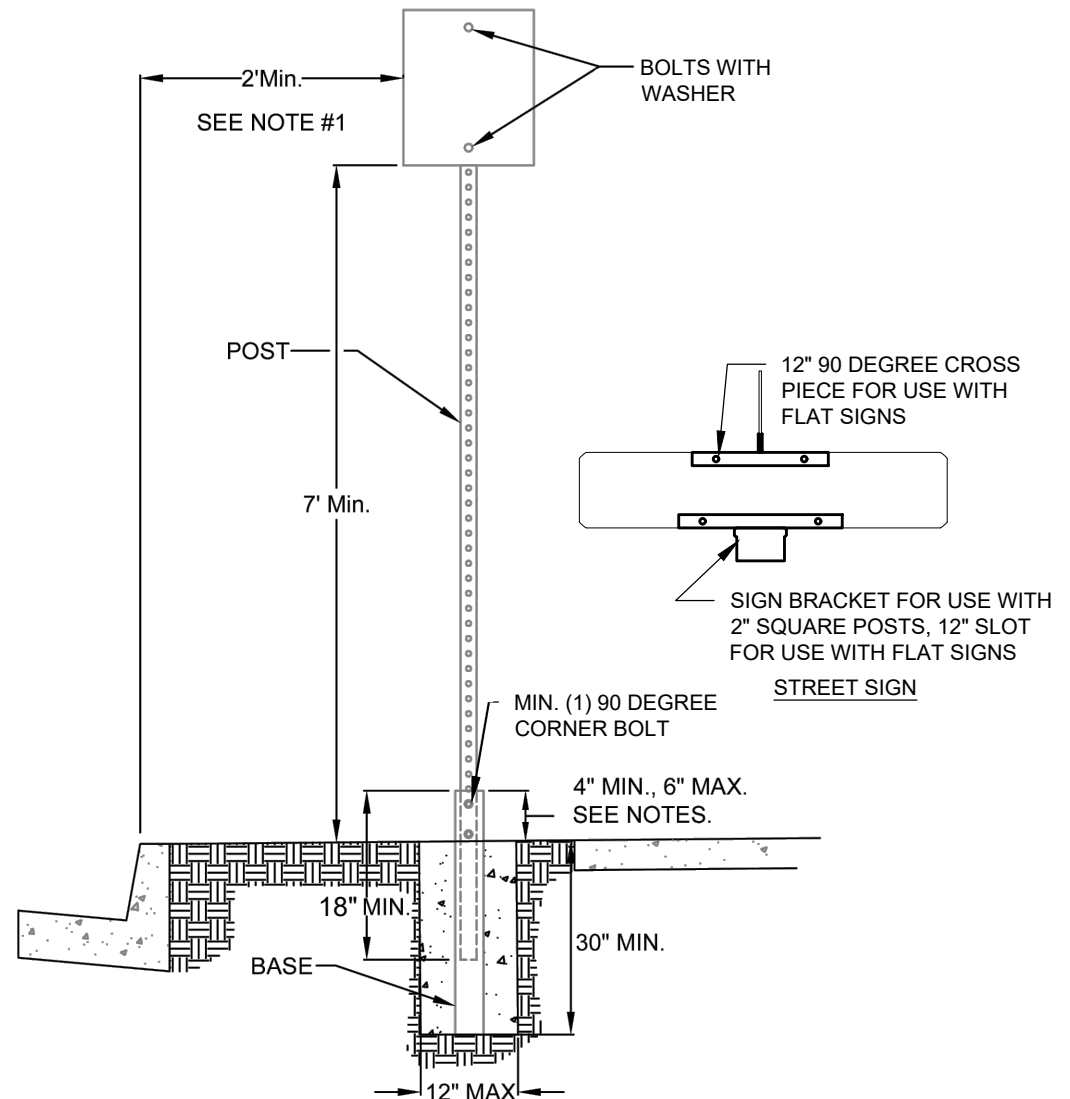
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: OCTOBER 2013

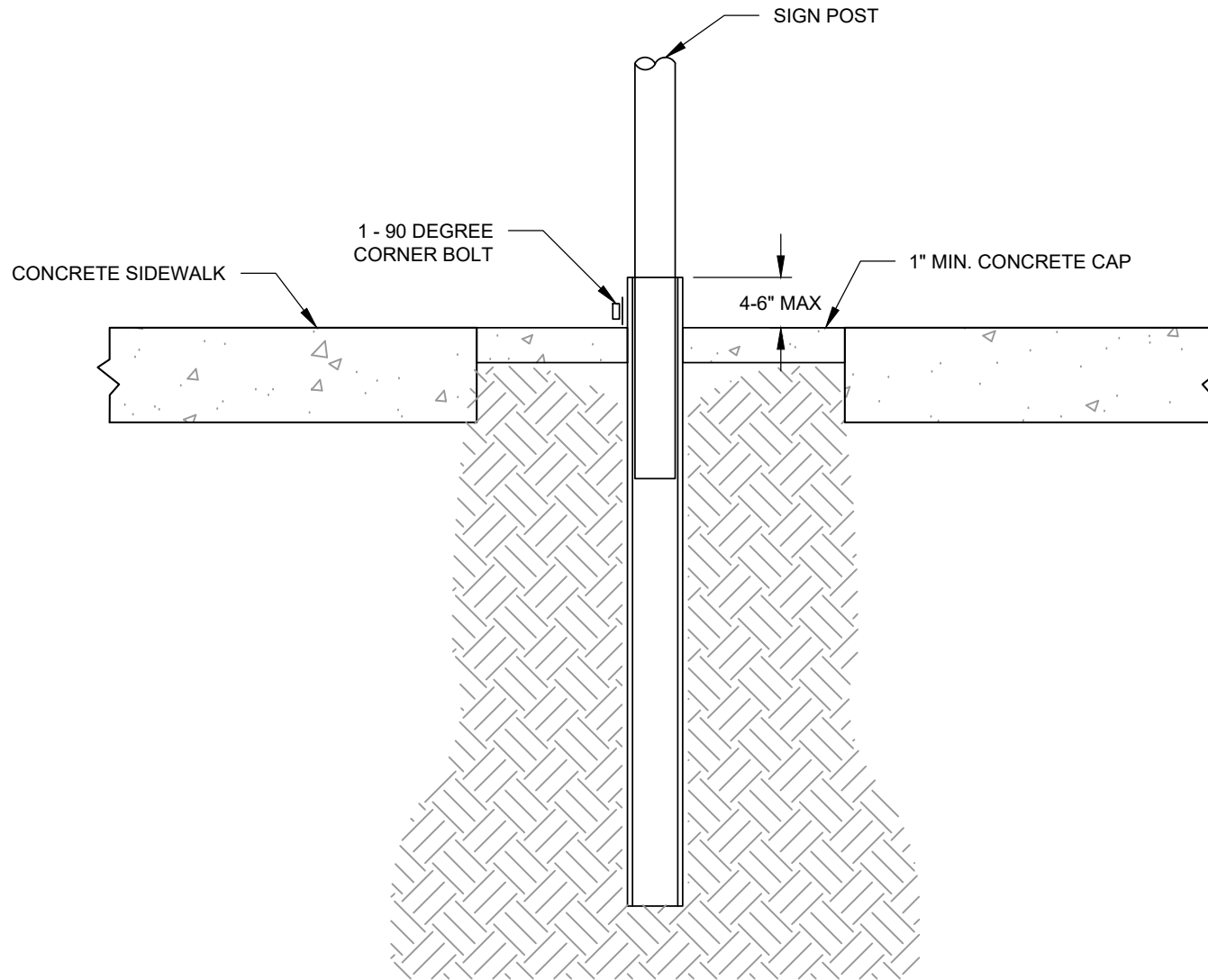
STREET TREES AND GRATES
(DOWNTOWN MIXED-USE ZONE, ETC.)

STANDARD PLAN
110.70

1. THE SIGN SHALL BE LOCATED A MINIMUM OF 2 FEET FROM THE FACE OF CURB OR EDGE OF ROADWAY IF NO CURB EXISTS. WHERE NARROW SIDEWALKS EXIST, THE SIGN SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK. THE SIGN LOCATION SHALL BE VERIFIED BY THE CITY ENGINEER PRIOR TO PLACEMENT.
2. SECONDARY SIGNS MOUNTED BELOW ANOTHER SIGN MAY BE 1 FOOT LOWER THAN THE PRIMARY SIGN. IF THE SECONDARY SIGN IS MOUNTED LOWER THAN 7 FEET ABOVE PEDESTRIAN SIDEWALK OR PATHWAY, THE SECONDARY SIGN SHALL NOT PROJECT MORE THAN 4 INCHES INTO THE PEDESTRIAN FACILITY.
3. TWO BOLTS WITH WASHERS SHALL BE INSTALLED TO CONNECT THE SIGN TO THE POST.
4. THE POST SHALL BE INSERTED A MINIMUM OF 12 INCHES INTO THE BASE.
5. THE SIGN POST SHALL BE A MINIMUM OF 14 GAUGE, GALVANIZED PERFORATED STEEL AND SHALL BE 2 INCH SQUARE.
6. THE BASE SHALL BE A MIN 36" LONG HEAVY DUTY, 2 ¼ INCH SQUARE, 7 GAUGE, GALVANIZED SOLID SLEEVE.
7. IN HIGH WIND AREAS AS DETERMINED BY THE CITY ENGINEER, SIGN BRACING IS REQUIRED. BRACING SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD PLAN G-50.10-02.
8. THE BASE SHALL BE DRIVEN (BY HAND OR MECHANICALLY). HAND DUG USING POST HOLE DIGGER OR VACTOR TRUCK TO ENSURE MINIMUM DISTURBANCE. THE HOLE SHALL BE A MAXIMUM OF 12" DIAMETER AND BACKFILLED WITH CONCRETE.
9. ALL SIGNS SHALL BE A MINIMUM HIGH INTENSITY PRISMATIC, RETRO-REFLECTIVE SHEETING
10. ADVANCED CROSSWALK, CROSSWALK, SCHOOL ZONE, AND SUPPLEMENTAL SIGNS SHALL BE FLORESCENT YELLOW-GREEN IN COLOR.

STANDARD PLAN
110.71

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



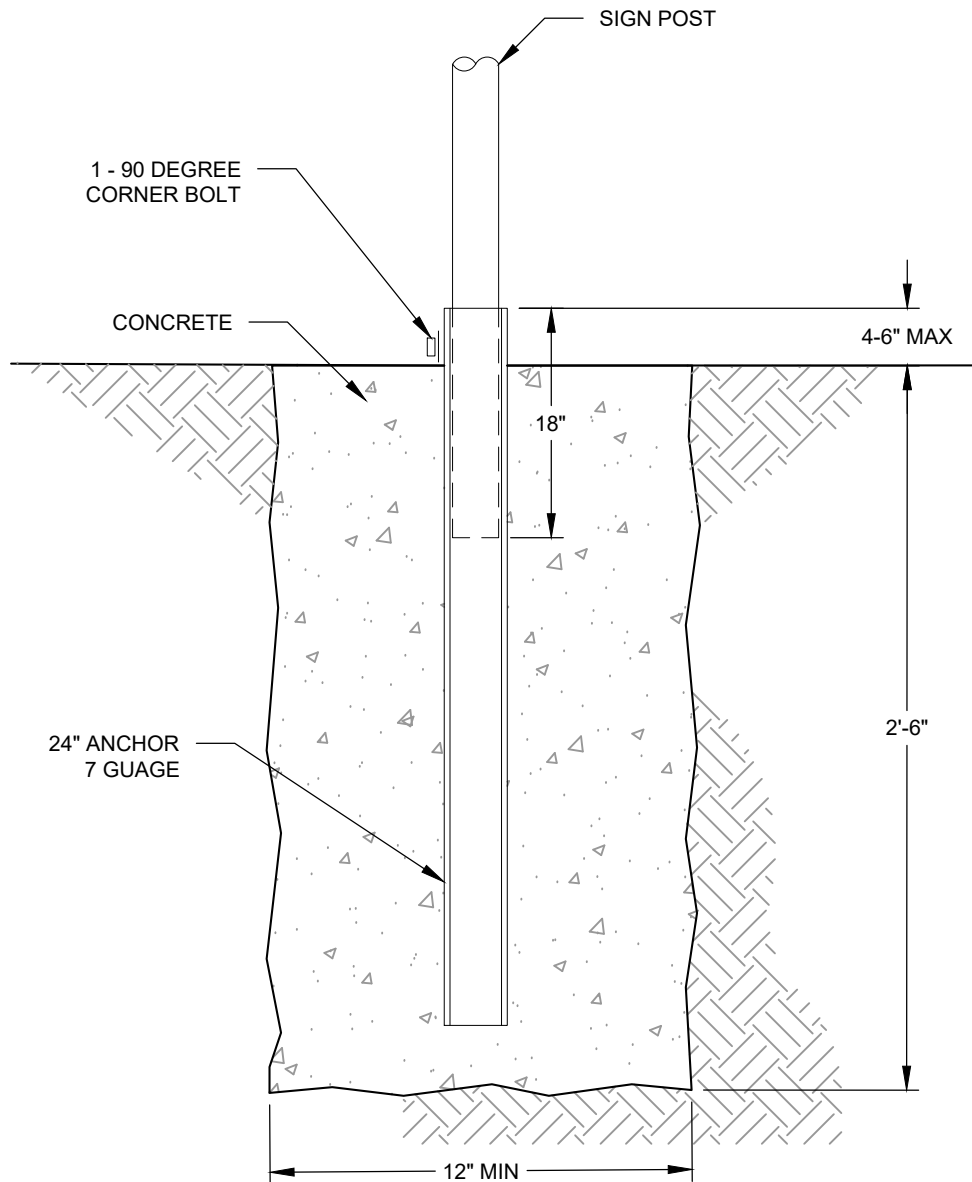
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

SIGN POST IN CONCRETE/ASPHALT

STANDARD PLAN
110.71A

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



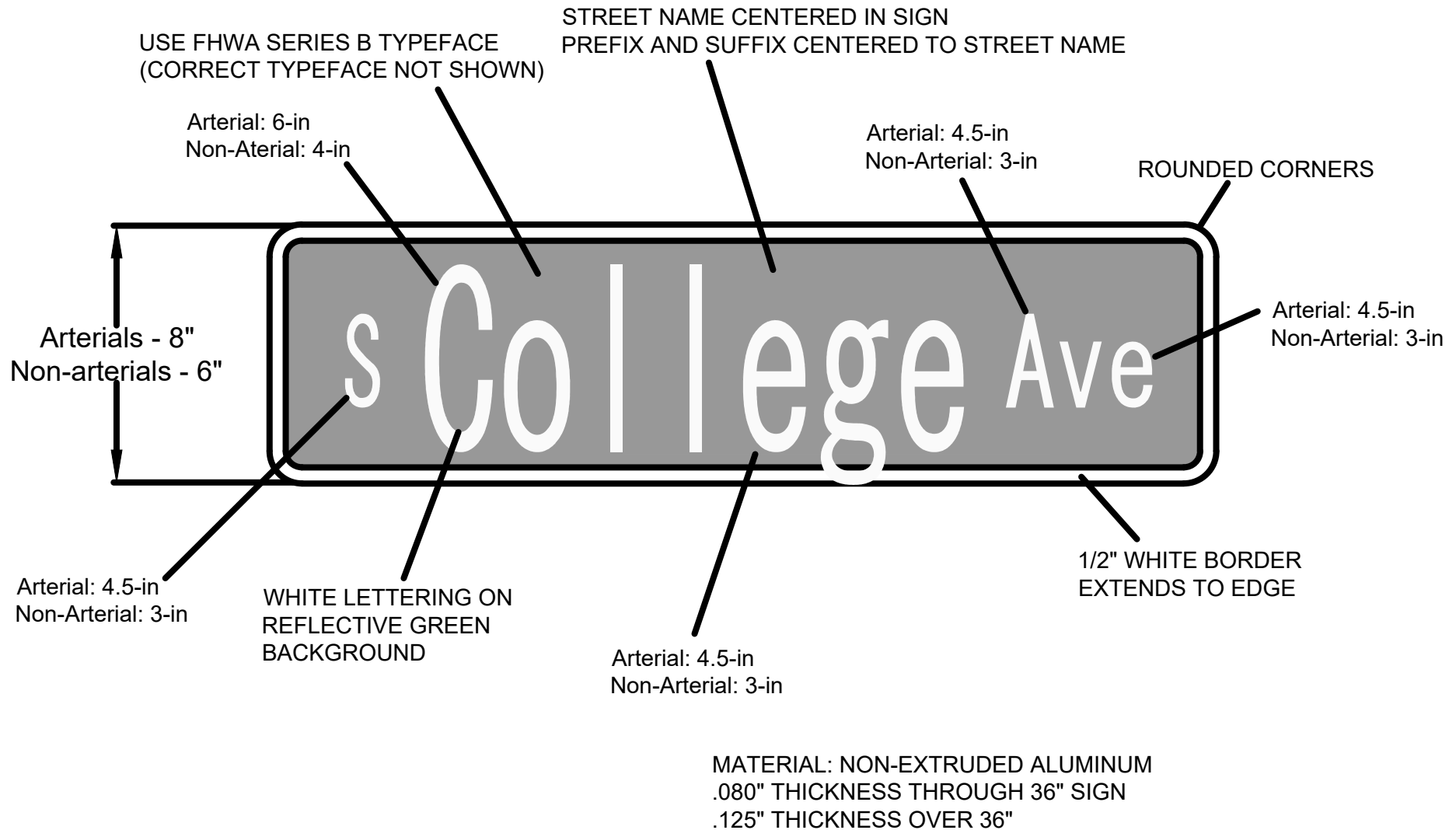
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

SIGN POST IN GROUND

STANDARD PLAN
110.71B

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STREET SIGNS

STANDARD PLAN
110.72

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



POLE SPECIFICATIONS:

STANDARD SUPPLIER: HOLOPHANE

POLE MODEL: HOLWDA 12 F5J 17D CO3 BK LAB

MATERIAL: ALUMINUM

COLOR: BLACK

FINISH: POLYESTER POWDER COAT

ANCHOR BOLTS: WSDOT COMPLIANT

LUMINAIRE SPECIFICATION:

STANDARD SUPPLIER: HOLOPHANE

POLE MODEL: HOL PUCL2P2040K MVOLT FC3 BK X

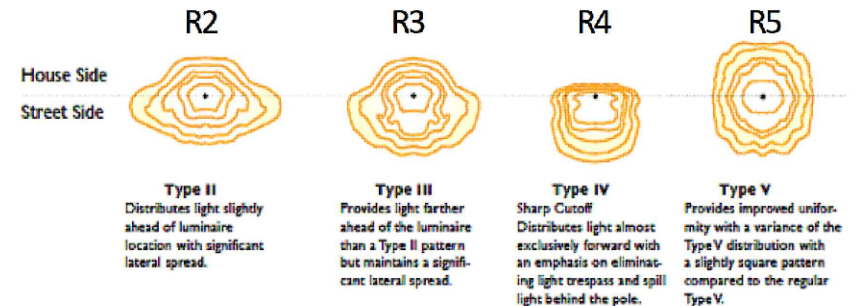
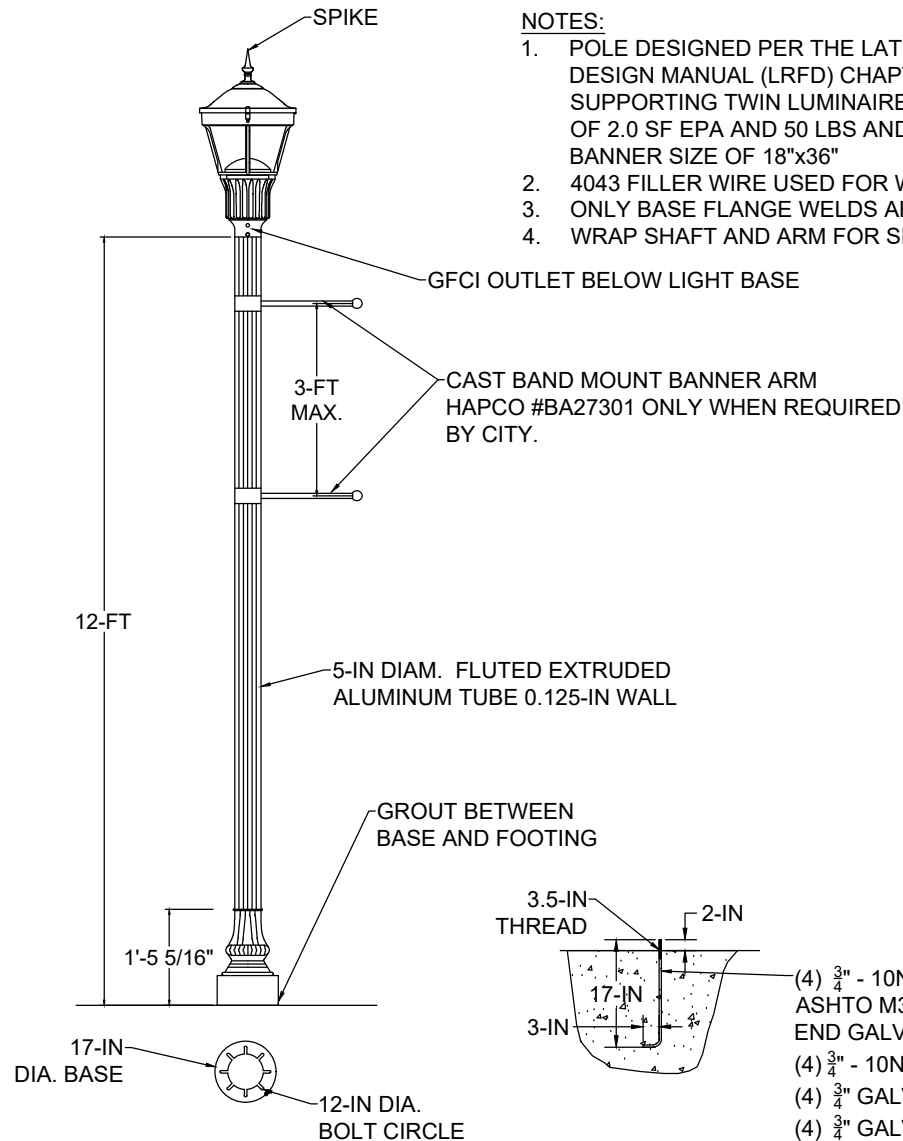
MATERIAL: ALUMINUM

COLOR: BLACK

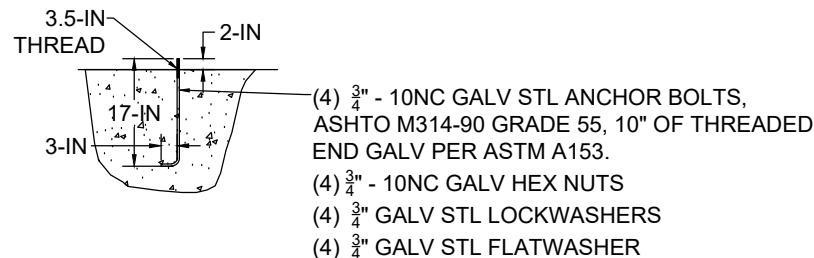
FINISH: POLYESTER POWDER COAT

NOTES:

1. POLE DESIGNED PER THE LATEST WSDOT BRIDGE DESIGN MANUAL (LRFD) CHAPTER 10 WHEN SUPPORTING TWIN LUMINAIRES WITH A MAX. SIZE OF 2.0 SF EPA AND 50 LBS AND A MAX. BREAKAWAY BANNER SIZE OF 18"x36"
2. 4043 FILLER WIRE USED FOR WELDING
3. ONLY BASE FLANGE WELDS ARE HEAT TREATED
4. WRAP SHAFT AND ARM FOR SHIPMENT.



*Contact City to confirm light distribution for desired application.



This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/04/2024

ORNAMENTAL PEDESTRIAN
STREET LIGHTS

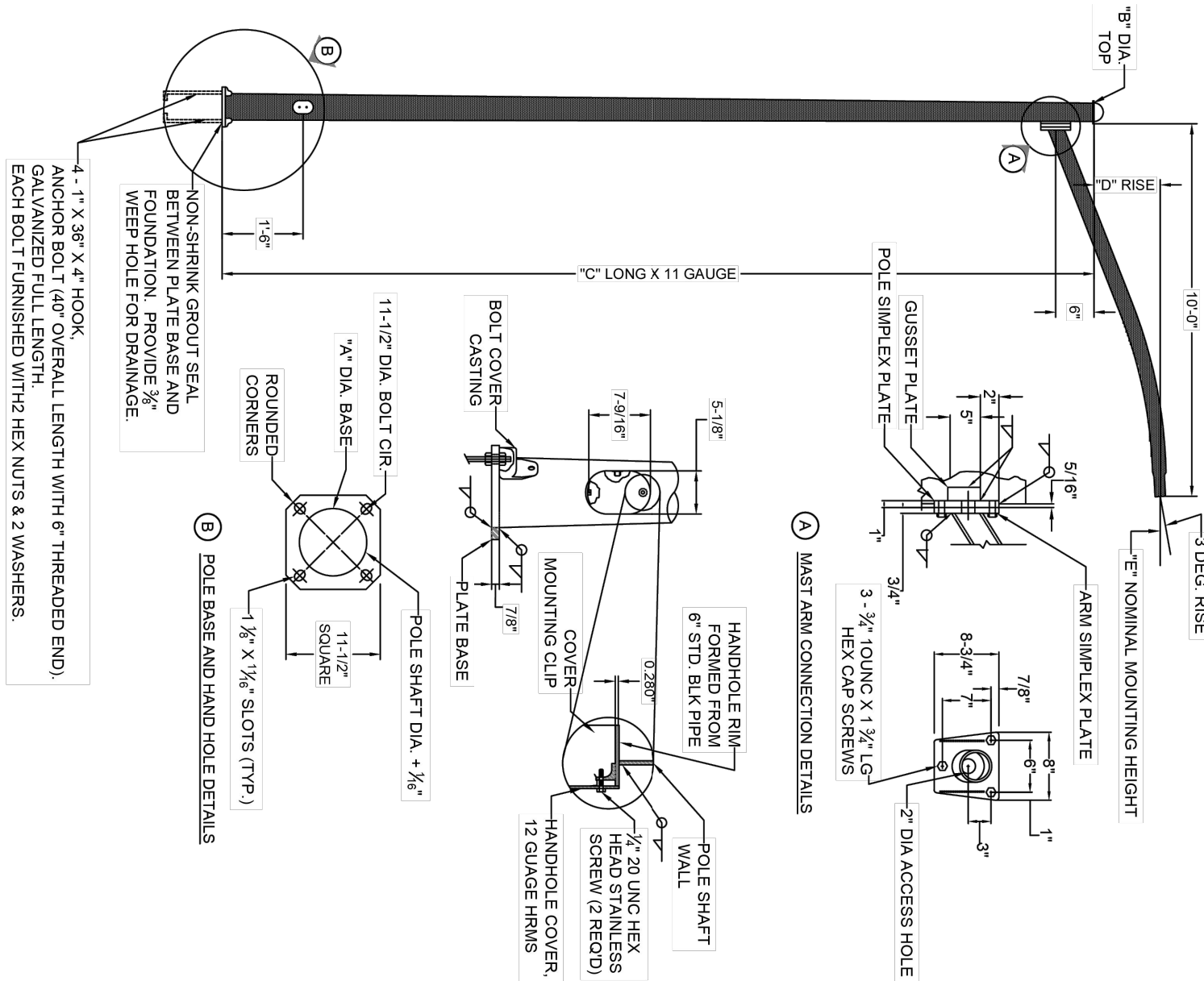
STANDARD PLAN
110.73

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

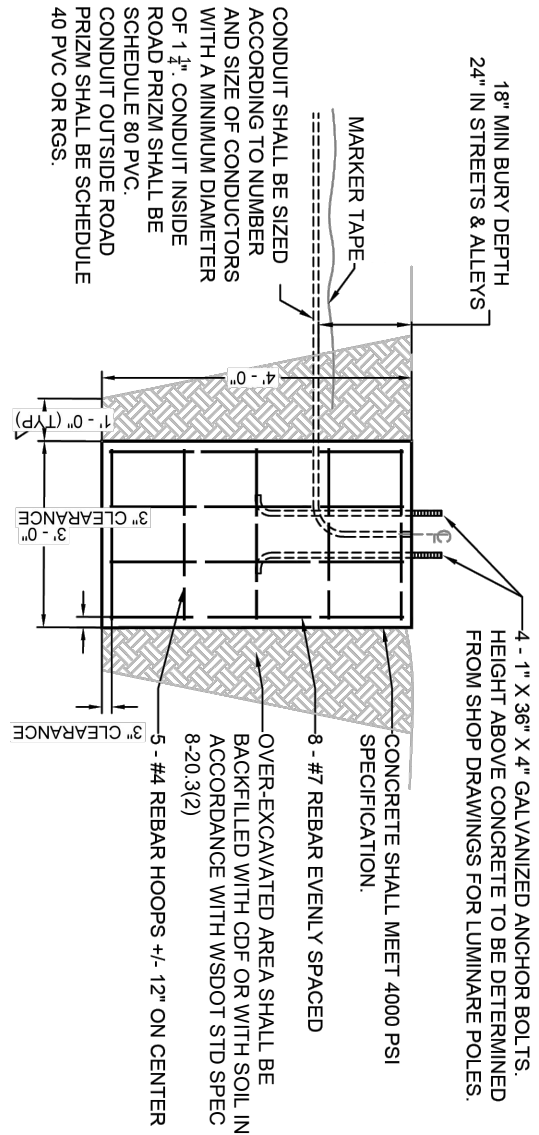
	"A"	"B"	"C"	"D"	"E"
RESIDENTIAL	7.5"	4.0"	25'0"	5'0"	30'
ARTERIAL	8.0"	3.8"	30'0"	5'0"	35'

NOTE: ALL POLES SHALL BE VALMONT DRWG #MTB-04 FOR THE CITY OF COLLEGE PLACE SEE STD PLANS 110.75 AND 110.76 FOR ADDITIONAL NOTES.

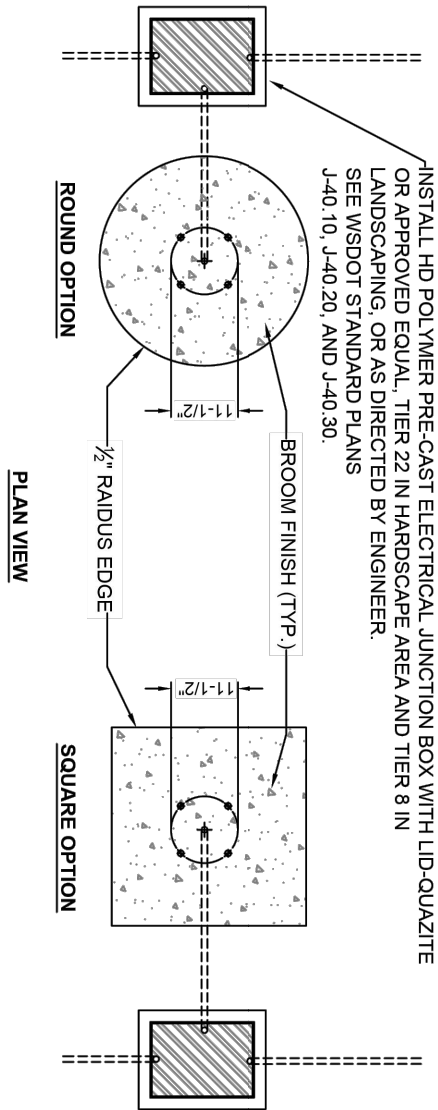
This drawing is not to scale



CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



LUMINAIRE BASE - ELEVATION



PLAN VIEW

NOTES:

1. WHERE THE POLE BASE FALLS OUT SIDE OF THE SIDEWALK AREA, THE TOP OF BASE ELEVATION SHALL BE SET 1" ABOVE EXISTING GROUND SURFACE.
2. WHERE THE POLE BASE FALLS PARTIALLY OR WHOLLY INSIDE THE SIDEWALK, THAT PORTION BORDERED BY THE SIDEWALK SHALL BE SEPARATED WITH 3/8" TO 1/2" JOINT MATERIAL PROVIDING A VERTICAL PLANE SEPARATION BETWEEN THE SIDEWALK AND THE BASE.
3. WHEN APPROVED BY THE ENGINEER, THE BASE MAY BE SET BELOW SIDEWALK ELEVATION. A THRU JOINT WILL BE REQUIRED ON EITHER SIDE OF THE VERTICAL PROJECTION OF THE BASE TO CONTROL CRACKING DUE TO MOVEMENT. THE SIDEWALK CONCRETE SHALL MAKE CONTACT WITH THE TOP OF THE BASE AND SHALL COMPLETELY SEAL THE BOLTS.
4. CONDUIT RUNS SHALL TERMINATE IN JUNCTION BOXES. CONDUCTOR WIRE SHALL BE CONTINUOUS FROM BOX TO BOX AND BOX TO POLE. NO SPLICES WILL BE ALLOWED IN CONDUIT RUNS. SPLICES IN JUNCTION BOXES SHALL BE 3M-4M SPLICE KIT. EACH POLE SHALL HAVE A QUICK DISCONNECT FUSE IN THE POLE.

This drawing is not to scale



CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

LUMINAIRE NOTES

ALL LUMINAIRES SHALL BE LED COBRA HEAD STYLE FIXTURES. GE EVOLVE LED ROADWAY LIGHTING OR LEOTEK LED GREEN COBRA STREET LIGHT MODELS SHALL BE USED UNLESS AN EQUAL PRODUCT IS APPROVED BY THE CITY ENGINEER

LUMINAIRES SHALL MEET THE FOLLOWING SPECIFICATIONS:

- 1) LUMINAIRE SHALL BE SIZED ACCORDING TO THE ILLUMINATION REQUIREMENTS OF THE ROADWAY.
- 2) TYPE III MEDIUM DISTRIBUTION WITH CUTOFF OPTICS.
- 3) LED LIGHT SOURCES SHALL PRODUCE A LIGHT COLOR TEMPERATURE BETWEEN 3,000 TO 4,000K.
- 4) ENERGIZED BY 240 VOLTS.
- 5) LUMINAIRE SHALL INCLUDE "PER" RECEPTACLE AND PHOTOCELL.
- 6) FINISH SHALL BE BATTLESHIP GRAY.
- 7) LIGHT SOURCES WILL MEET OR EXCEED THE FOLLOWING EFFICIENCY AND LONGEVITY BENCHMARKS:
 - * LUMINOUS EFFICACY: 65 LUMENS/WATT
 - * AVERAGE LAMP LIFE: >50,000 HOURS.
 - * MAINTENANCE FACTOR @ 50,000 HOURS: 0.80

PLACEMENT OF STREET LIGHTS SHALL BE DETERMINED BY THE CITY ENGINEER.

POLE NOTES

(SEE STD. PLAN 110.74 FOR PLAN DETAILS)

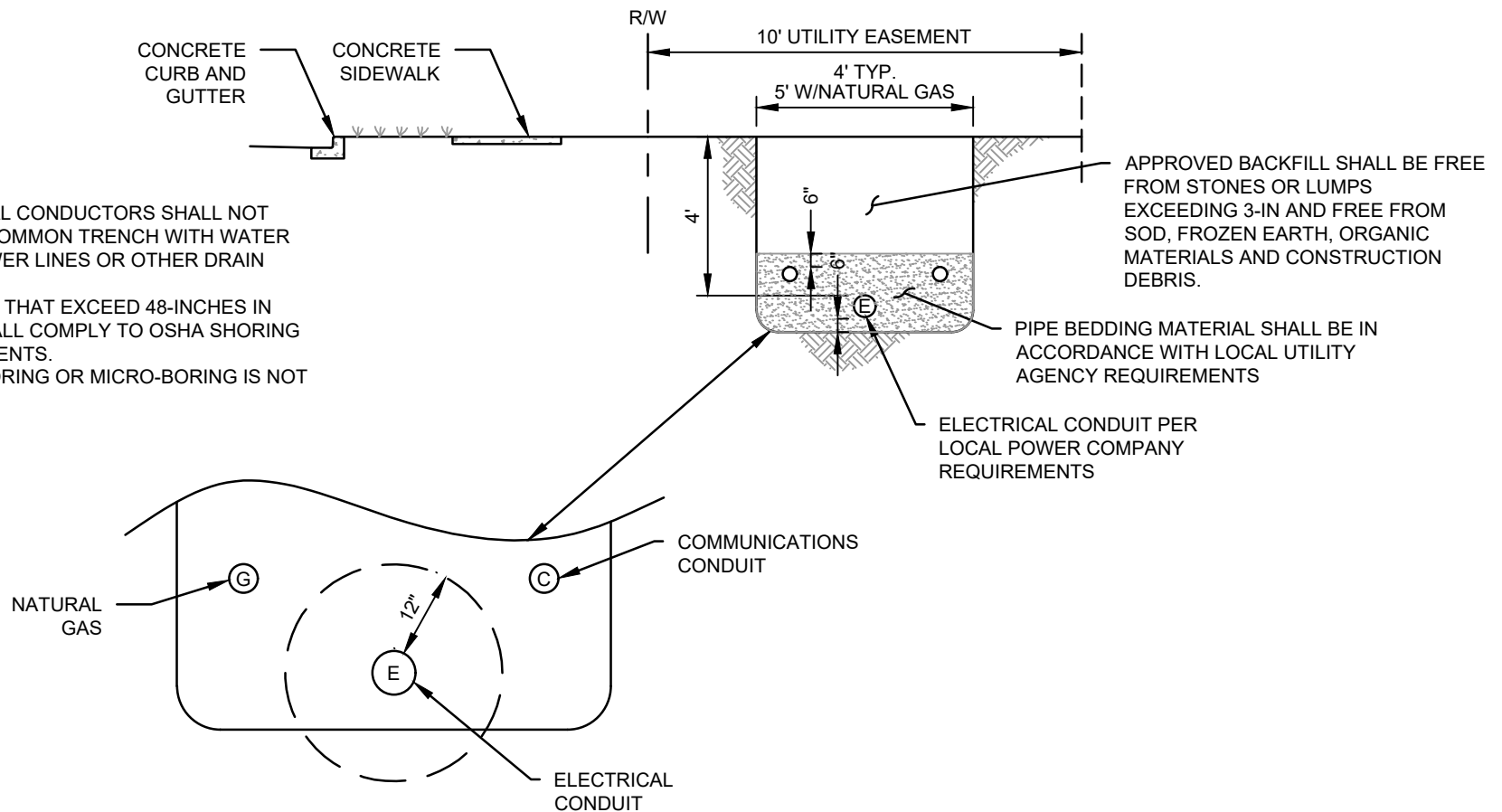
- 1) POLE SHAFT-HOT ROLLED COMMERCIAL QUALITY CARBON STEEL CONFORMING TO ASTM DESIGNATION: A 595 GRADE A - 55,000 PSI MINIMUM YIELD STRENGTH; LINEAR TAPER - 0.14"/FT.
 - 2) LUMINAIRE ARM SHAFT - 11GA. HOT ROLLED COMMERCIAL QUALITY CARBON STEEL WITH 55,000 PSI MINIMUM YIELD STRENGTH. LINEAR TAPER 0.14"/FT WITH 2.3/8" O.D. x 8" STRAIGHT SECTION LUMINAIRE END.
 - 3) ARM CONNECTION SIMPLEX PLATES 36,000 PSI MINIMUM YIELD STRENGTH. GUSSET PLATES 36,000 PSI MINIMUM YIELD STRENGTH.
 - 4) BASE PLATE - 36,000 PSI MINIMUM YIELD STRENGTH.
 - 5) FOUR CAST ANCHOR BOLT COVERS SECURED IN PLACE WITH STAINLESS STEEL SELF-TAPPING SCREWS
 - 6) CAST POLE TOP CAP SECURED IN PLACE WITH 3 PLATED SET SCREWS.
 - 7) ALL THREADED FASTENERS TO BE GALVANIZED UNLESS OTHERWISE NOTED.
 - 8) ANCHOR BOLTS CONFORM TO ASTM DESIGNATION: A449.
 - 9) EACH LUMINAIRE SHALL HAVE AN INLINE FUSEHOLDER, SEC MODEL 1791-SF, WITH A FRM-5 FUSE ON EACH PHASE CONDUCTOR AT THE BASE OF THE POLE. ACCESS TO THESE FUSEHOLDERS SHALL BE THROUGH THE HAND HOLE ON THE POLE. ADDITIONAL CONDUCTOR LENGTH SHALL BE LEFT INSIDE THE POLE TO EQUAL A LOOP HAVING A DIAMETER OF ONE (1) FOOT.
- FINISH NOTES:
- 1) ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A 153.
 - 2) POLE TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A 123.
 - 3) ARM TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A 123.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

NOTE:

1. ELECTRICAL CONDUCTORS SHALL NOT SHARE A COMMON TRENCH WITH WATER LINES, SEWER LINES OR OTHER DRAIN LINES.
2. TRENCHES THAT EXCEED 48-INCHES IN DEPTH SHALL COMPLY TO OSHA SHORING REQUIREMENTS.
3. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.



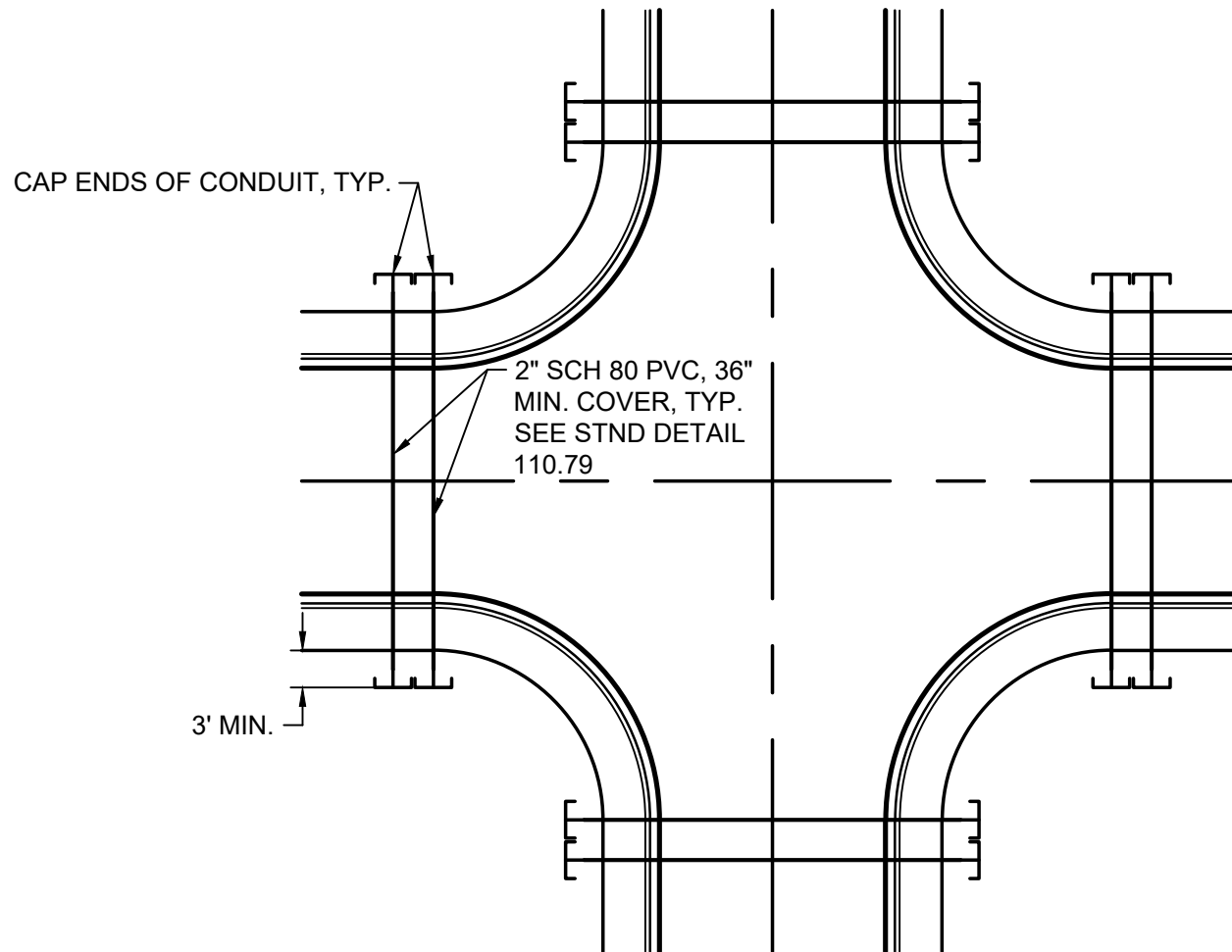
This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. CONDUIT SHALL BE ELECTRICAL GRADE SCH 80 PVC.
2. CONDUIT SHALL HAVE PULL STRING.
3. 36" BURY DEPTH.
4. CONDUIT SHALL BE PLACED AT THE 4 LEGS OF THE INTERSECTION.
5. THIS DETAIL IS APPLICABLE TO ARTERIALS AND COLLECTORS ONLY. MAY BE REQUIRED ON LOCAL STREETS AS DETERMINED BY THE PUBLIC WORKS DIRECTOR.
6. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.



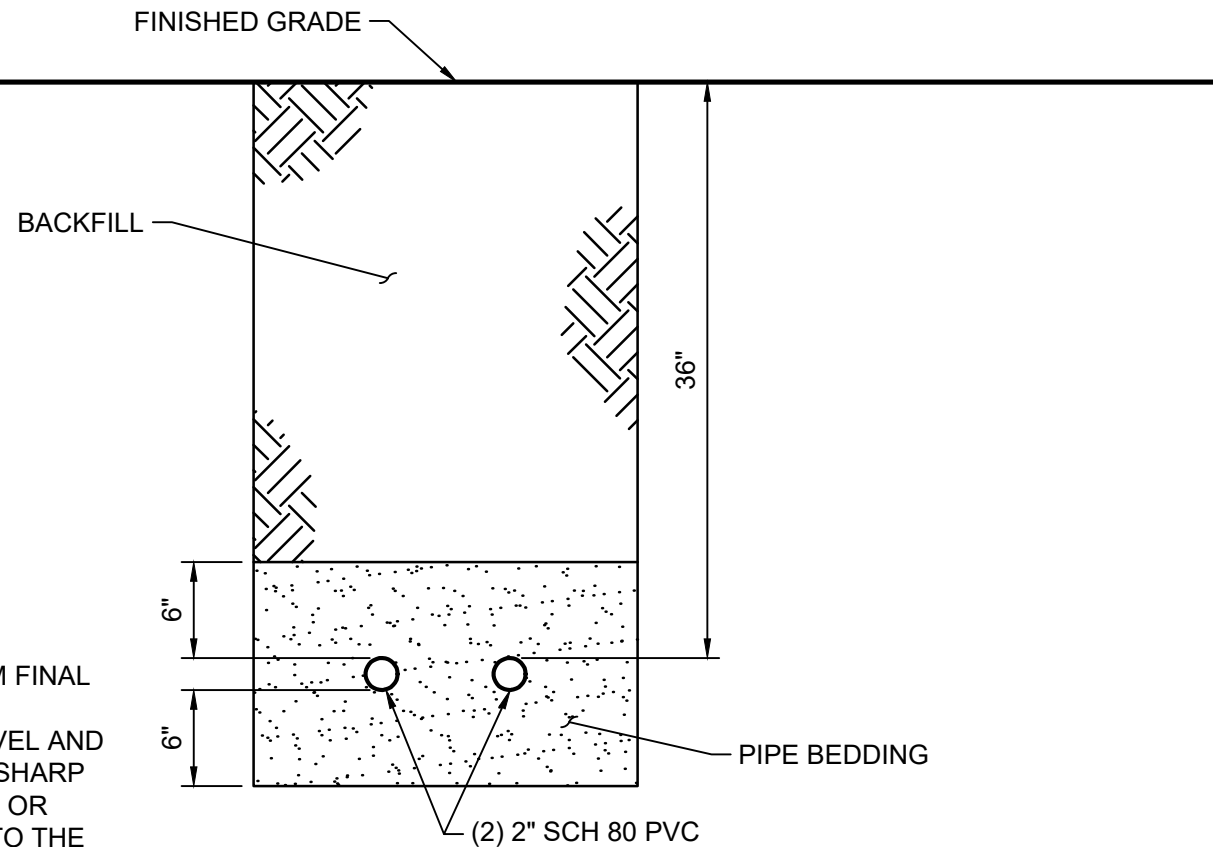
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

INTERSECTION CONDUIT DETAIL

STANDARD PLAN
110.78

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. TRENCH DEPTH SPECIFIED FROM FINAL GRADE.
2. TRENCH BOTTOMS SHALL BE LEVEL AND WELL TAMPED EARTH WITHOUT SHARP RISES AND DROPS. ROCK SPURS OR RIDGES SHALL NOT PROJECT INTO THE TRENCH.
3. PIPE BEDDING SHALL PASS THROUGH A 3/4" SIEVE FRAME AND BE PLACED ABOVE AND BELOW THE CONDUIT IN 6" LIFTS.
4. BACKFILL SHALL BE FREE OF STONE OR CLUMPS EXCEEDING 3" AND FREE FROM SOD, FROZEN EARTH, ORGANIC MATERIALS AND CONSTRUCTION DEBRIS.
5. MISSILE BORING OR MICRO-BORING IS NOT ALLOWED.

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

INTERSECTION CONDUIT
SECTION DETAIL

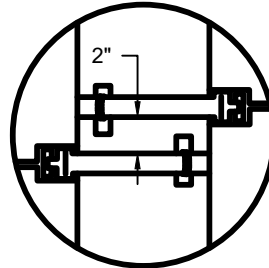
STANDARD PLAN
110.79

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

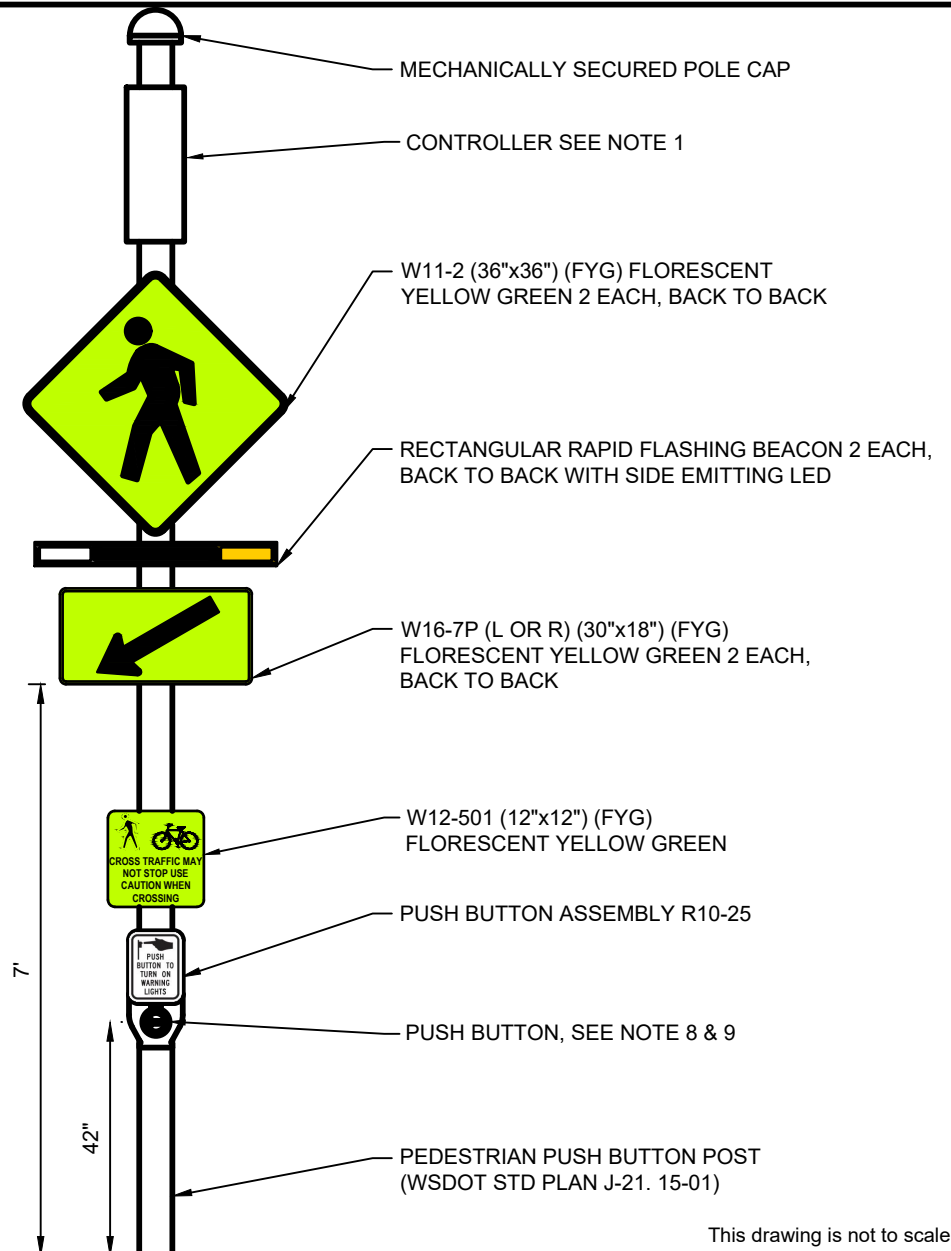


NOTES:

1. THE CONTROLLER ENCLOSURE AND CABINETS SHALL MEET MANUFACTURE SPECIFICATIONS.
2. THE LIGHTBAR HOUSING SHALL HAVE THE APPROXIMATE DIMENSIONS: 24" L x 1.5" D x 4.5" H.
3. LED INDICATORS SHALL BE RATED TO MIL-STD-810F, METHOD 506.4 FOR INGRESS PROTECTION.
4. ALL RRFB'S IN THE SYSTEM SHALL INITIATE ACTIVATION SIMULTANEOUSLY WITHIN 150 MS OF ACTUATION.
5. REFER WSDOT STD PLAN J-21.10 FOR ROUND FOUNDATION DETAIL AND SLIP BASE
6. ALL MOUNTING BRACKETS SHALL BE SEPARATED BY 2" MIN CLEAR SPACE
7. RRFB'S SHALL BE MANUFACTURED BY CARMANAH OR TSSCO
8. SOLAR POWERED RRFB'S SHALL MEET THE FOLLOWING REQUIREMENTS
 - POLARA BULLDOG PUSHBUTTON
 - BATTERY SHALL BE A MINIMUM 48 AHR
 - SOLAR PANEL SHALL BE A MINIMUM 50 WATT, POST TOP OR SIDE MOUNTED
9. HARD-WIRED RRFB'S SHALL HAVE AN AUDIBLE APS PUSHBUTTON
10. SEE WSDOT STD PLAN J-28.70 FOR WIRING DETAILS NOT SHOWN.



SEE NOTE 6



This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 01/18/23

RECTANGULAR RAPID
FLASHING BEACON

STANDARD PLAN
110.80

STANDARD PLAN 210.00

WATER UTILITY SYSTEM NOTES

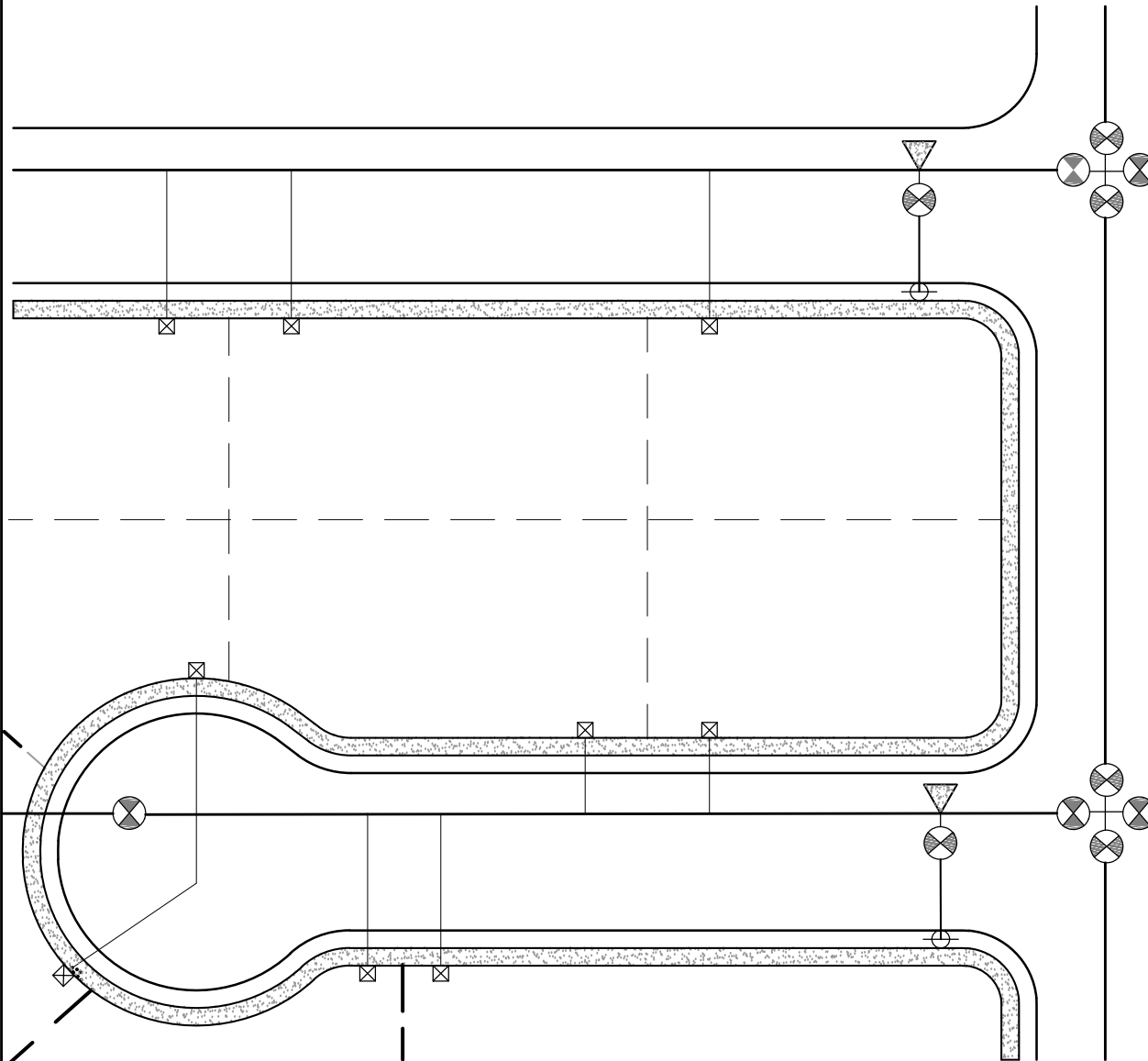
1. ALL VALVE OPERATIONS AND OTHER ACTIVITIES IMPACTING THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED BY THE CITY OF COLLEGE PLACE PUBLIC WORKS. 24-HOUR NOTIFICATION OF ANY INTERRUPTION IN WATER SERVICE IS REQUIRED TO ALL AFFECTED CUSTOMERS.
2. DISINFECTION OF WATER LINES SHALL COMPLY WITH AWWA C651—DISINFECTING WATER MAINS, SSRB&MC. PRESSURE TESTING, FLUSHING, BACTERIAL SAMPLING AND STARTUP SHALL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SECTION IS COMPLETE. SPECIAL INSPECTION AND CERTIFICATION OF ADEQUACY BY A PROFESSIONAL ENGINEER IS REQUIRED. ALL NEW FITTINGS AND EXISTING FITTINGS EXPOSED DURING INSTALLATION SHALL BE SWABBED WITH CHLORINE AND THE LINE CHLORINATED. ONCE THE LINE IS CHLORINATED, VALVES SHALL BE CLOSED AND THE LINE LEFT UNDISTURBED FOR 24 HOURS. THE LINE SHALL THEN BE THOROUGHLY FLUSHED AND WATER SAMPLES TAKEN BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE FOR APPROVAL BY THE LOCAL HEALTH AGENCY. WATER SHALL NOT BE FLUSHED TO NATURAL WATERS OR WATERWAY. SHOULD THE INITIAL TREATMENT RESULT IN AN UNSATISFACTORY BACTERIOLOGICAL TEST, THE ORIGINAL CHLORINATION PROCEDURE SHALL BE REPEATED BY THE CONTRACTOR UNTIL SATISFACTORY RESULTS ARE OBTAINED.
3. NEW WATER LINE INSTALLATIONS SHALL BE PRESSURE TESTED AND MEET MINIMUM LEAKAGE STANDARDS IN CONFORMANCE WITH SSRB&MC.
4. 12" AND SMALLER LINES SHALL BE AWWA C151 CLASS 50 DUCTILE IRON WITH CLASS C104 CEMENT MORTAR LINING WITH ALL JOINTS MECHANICALLY RESTRAINED. PIPE JOINTS SHALL BE RESTRAINED USING TR-FLEX OR FLEX RING DUCTILE IRON PIPE OR BY USING FIELD-LOK OR FAST GRIP GASKETS. THE GASKET USED SHALL BE MANUFACTURED BY THE MANUFACTURER OF THE PIPE BEING USED AND SHALL BE RECOMMENDED FOR THE APPLICATION. LARGER WATER LINES LARGER THAN 12" SHALL BE TR FLEX OR FLEX-RING DUCTILE IRON PIPE CLASS 52.
5. WATER MAINS AND SERVICE LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30" TO OUTSIDE CROWN OF PIPE.
6. ALL FIRE HYDRANTS SHALL BE DRY BARREL, THREE PORT TYPE AND MEET ALL SPECIFICATIONS OUTLINED IN ARTICLE 200.02 OF THE CITY STANDARD SPECIFICATIONS.
7. CLEAN, WASHED 1 ½" DRAIN ROCK SHALL BE PLACED AROUND THE BASE OF ALL FIRE HYDRANTS AND BLOWOFF ASSEMBLIES AND SHALL BE COVERED WITH FILTER FABRIC.
8. AN 8X8X4 INCH PRE-CAST 3000 PSI CONCRETE BLOCK SHALL BE PLACED BENEATH THE BASE OF ALL FIRE HYDRANTS. THIS IS TO ALLOW THE 1 ½" DRAIN ROCK TO COMPLETELY SURROUND THE BASE OF THE HYDRANT TO FACILITATE PROPER DRAINAGE.
9. 3000 PSI CONCRETE THRUST BLOCKS SHALL BE USED TO RESTRAIN FIRE HYDRANTS AND CONTROL VALVES. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL. SEE STANDARD PLAN 210.02, 210.09, 210.10, 210.11.

10. A SHEET OF 6 MIL. POLY SHEETING SHALL BE PLACED BETWEEN THE BASE OF ALL FIRE HYDRANTS, VALVES, PIPE FITTINGS AND INSTALLED THRUST BLOCKS. SEE STANDARD PLAN 210.02
11. A STORTZ COUPLER SHALL BE MOUNTED TO THE 4 1/2" PORT ON ALL NEW FIRE HYDRANTS. EXISTING FIRE HYDRANTS WILL BE RETROFIT WITH A THREADED STORTZ ADAPTER.
12. ALL GATE VALVES SHALL BE MUELLER A2360 RESILIENT WEDGE GATE VALVES WITH A 2" SQUARE WRENCH NUT OR AN APPROVED EQUAL.
13. VALVE RISER SHALL BE PER STANDARD PLAN 210.03.
14. ALL WATER MAINS SHALL BE A MINIMUM CLASS 50 DUCTILE IRON PIPE WITH A MINIMUM DIAMETER OF 8".
15. CORPORATION STOPS SHALL BE MALE IRON PIPE THREAD (MIPT) X COPPER TUBE SIZE (CTS) COMPRESSION FITTINGS.
16. SINGLE STRAP SADDLES SHALL BE ROMAC 101S. DOUBLE STRAP SADDLES SHALL BE ROMAC 202S OR APPROVED EQUAL.
17. SERVICE LINES SHALL BE NO LESS THAN 1" DIAMETER TYPE K COPPER TUBE OR CTS POLYETHYLENE PIPE. SERVICE LINES LARGER THEN 1" SHALL BE CONSTRUCTED WITH CTS POLYETHYLENE. USE OF POLYETHYLENE PIPE SHALL REQUIRE INSPECTION AT THE TIME ALL COMPRESSION FITTINGS ARE INSTALLED. A STAINLESS STEEL INSERT WILL BE PLACED AT ALL COMPRESSION JOINTS. FAILURE TO OBTAIN AN INSPECTION WILL RESULT IN REMOVAL OF ALL OR A PORTION OF THE WORK IN ORDER TO FACILITATE A PROPER INSPECTION.
18. WATER METERS SHALL BE METRON FARNIER SPECTRUM SERIES INNOV 8 RADIO REGISTER METERS REGISTERING IN 1000 GALLONS. MINIMUM SIZE SHALL BE FULL 3/4" SHORT BODY FOR RESIDENTIAL WATER SERVICES.
19. A MINIMUM DEPTH OF 16" SHALL BE MAINTAINED BETWEEN THE TOP OF THE METER SETTER AND FINISHED GRADE.
20. BLOWOFF ENCLOSURE SHALL BE MID-STATES 1324 METER BOX WITH A CAST IRON LID.
21. THE MAIN GATE VALVE FOR THE BLOWOFF ASSEMBLY SHALL BE A MUELLER 2" A-2360 #10A.14 WITH A 2" SQUARE WRENCH NUT OR AN APPROVED EQUAL. SEE STANDARD PLAN 210.08.
22. TOTAL DEPTH OF METER BOX BURY SHALL BE 30" MINIMUM. ALL METER BOXES USED SHALL BE CONSTRUCTED OF PLASTIC. THE SET SHALL CONSIST OF ONE 12" TOP SECTION AND ONE 18" BOTTOM SECTION. NO PIPE SLOTS ARE ALLOWED. METER BOXES SHALL BE MID-STATES 1324 OR APPROVED EQUAL FOR 1" OR SMALLER METERS. METER BOXES FOR 1 1/2" AND 2" METERS SHALL BE MID-STATES 1730. LID/COVER SHALL BE BROOKS #66 CONCRETE.
23. ALL WATER PIPE SHALL HAVE 6-IN. OF CRUSHED ROCK ABOVE AND 4-IN. OF CRUSHED ROCK UNDERNEATH FOR BEDDING.

24. THE USE OF NATIVE BACKFILL MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR, GRAVEL BACKFILL PER THE STANDARD SPECIFICATIONS 9-03.12(3) OR OTHER GRANULAR MATERIAL APPROVED BY THE PUBLIC WORKS DIRECTOR SHALL BE USED. THIS BACKFILL REQUIREMENT APPLIES TO ALL WATER MAINS AND SERVICE LINES.
25. ALL WATER MAINS AND SERVICE LINES SHALL BE MARKED WITH A NO. 12 SOLID COPPER LOCATOR WIRE FASTENED TO THE PIPE WITH DUCT TAPE AT EACH JOINT. LOCATOR WIRE SHALL EXTEND TO ALL SERVICE LINES AND VALVES INCLUDING PLACEMENT WITHIN ALL VALVE RISERS. FOR THE PURPOSE OF PIPE LINE DETECTION, LOCATOR WIRE WITHIN THE VALVE RISERS SHALL BE LONG ENOUGH TO REACH THE TOP TO THE RISER WHEN EXTENDED. SERVICE LINE LOCATING WIRE SHALL EXTEND INTO THE METER BOX TERMINATING AT THE TOP OF THE METER SET.
26. HYDRANT FIRE FLOW WILL BE REQUIRED PER INTERNATIONAL FIRE CODE SECTION C105.1 PRIOR TO PROJECT APPROVAL.

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



	WATER MAIN
	FIRE HYDRANT FEED
	WATER SERVICE LINE
	PROPERTY LINE
	SIDEWALKS
	WATER METER
	GATE VALVE
	3-PORT FIRE HYDRANT
	BLOWOFF
	END CAP
	THRUST BLOCK

NOTES:

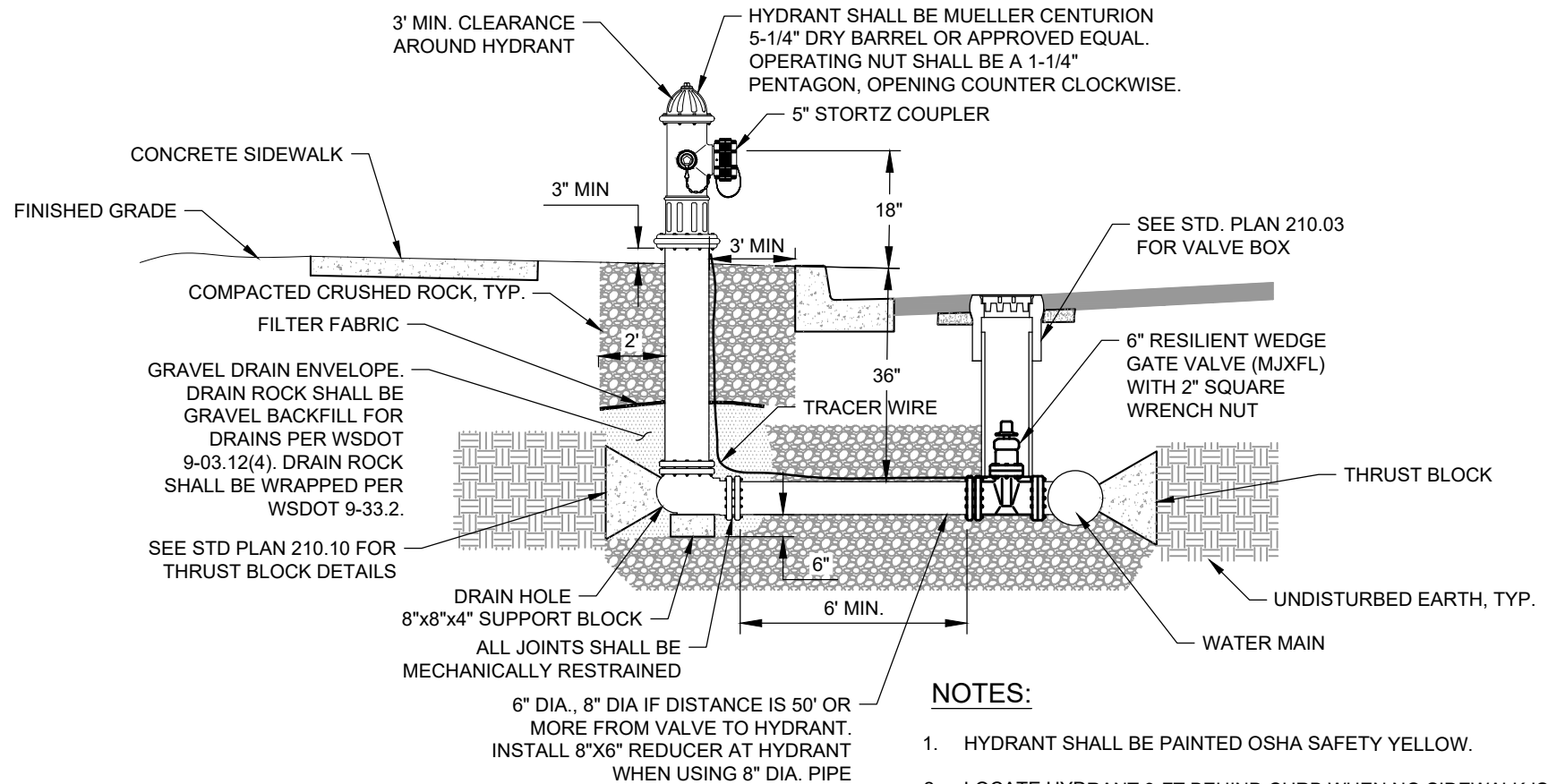
1. NO WATER METERS IN DRIVEWAY.
 2. 10-FT MIN. SEPARATION FROM WATER AND SEWER SERVICES.
 3. WATER SERVICES SHALL BE A MIN OF 10-FT FROM ANY TREES
- This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

GENERAL WATER SYSTEM COMPONENT
PLACEMENT OVERVIEW

STANDARD PLAN
210.01

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. HYDRANT SHALL BE PAINTED OSHA SAFETY YELLOW.
2. LOCATE HYDRANT 3-FT BEHIND CURB WHEN NO SIDEWALK IS PRESENT.
3. WHERE CONCRETE CURBING IS NOT INSTALLED, GUARD POSTS SHALL BE INSTALLED ON SIDE FACING STREET.
4. PLACE FIRE HYDRANT 2-FT FROM BACK EDGE OF SIDEWALK WITH CURB TIGHT SIDEWALKS.
5. GUARD POSTS SHALL BE 4\"/>

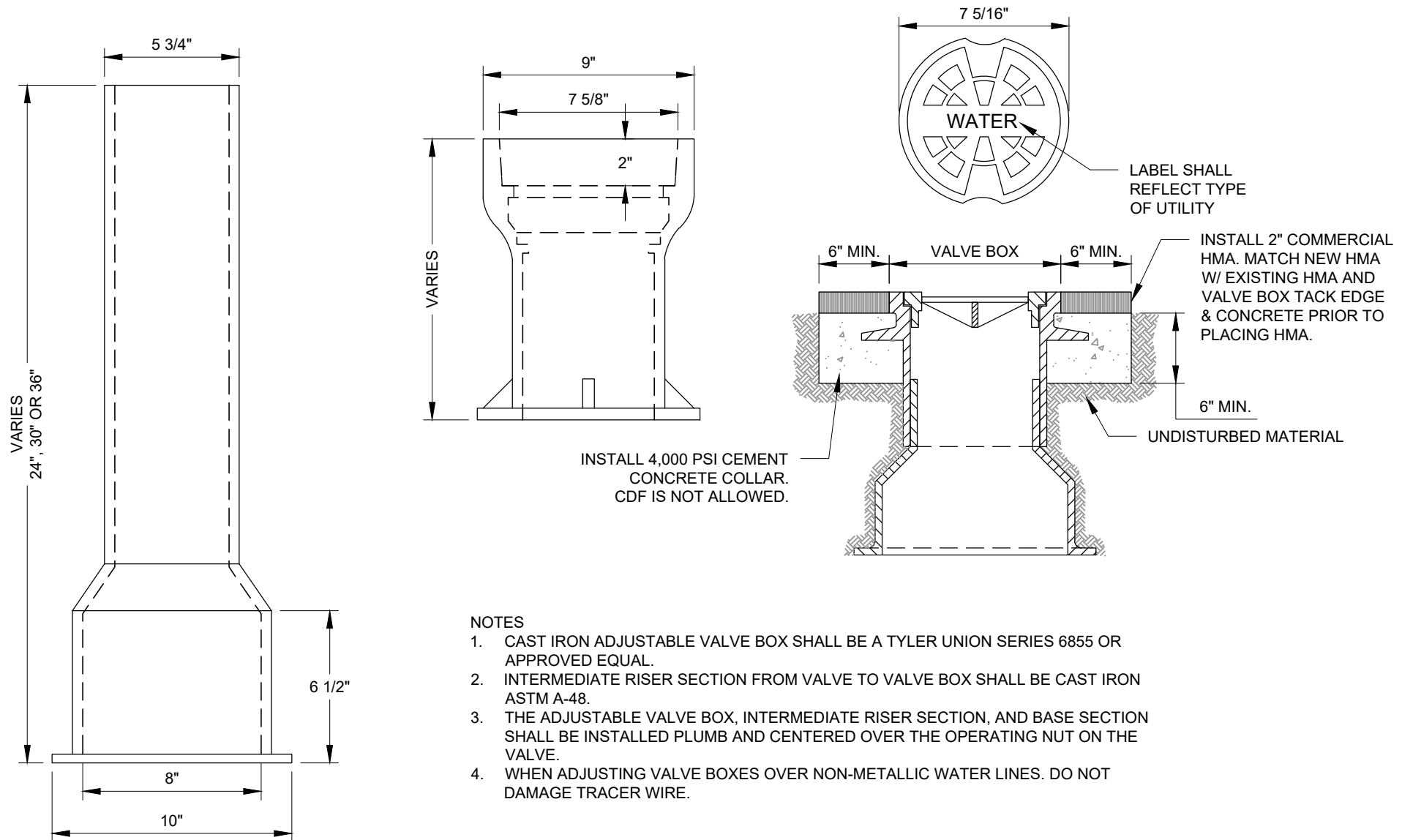
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

FIRE HYDRANT PLACEMENT PROFILE

STANDARD PLAN
210.02

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



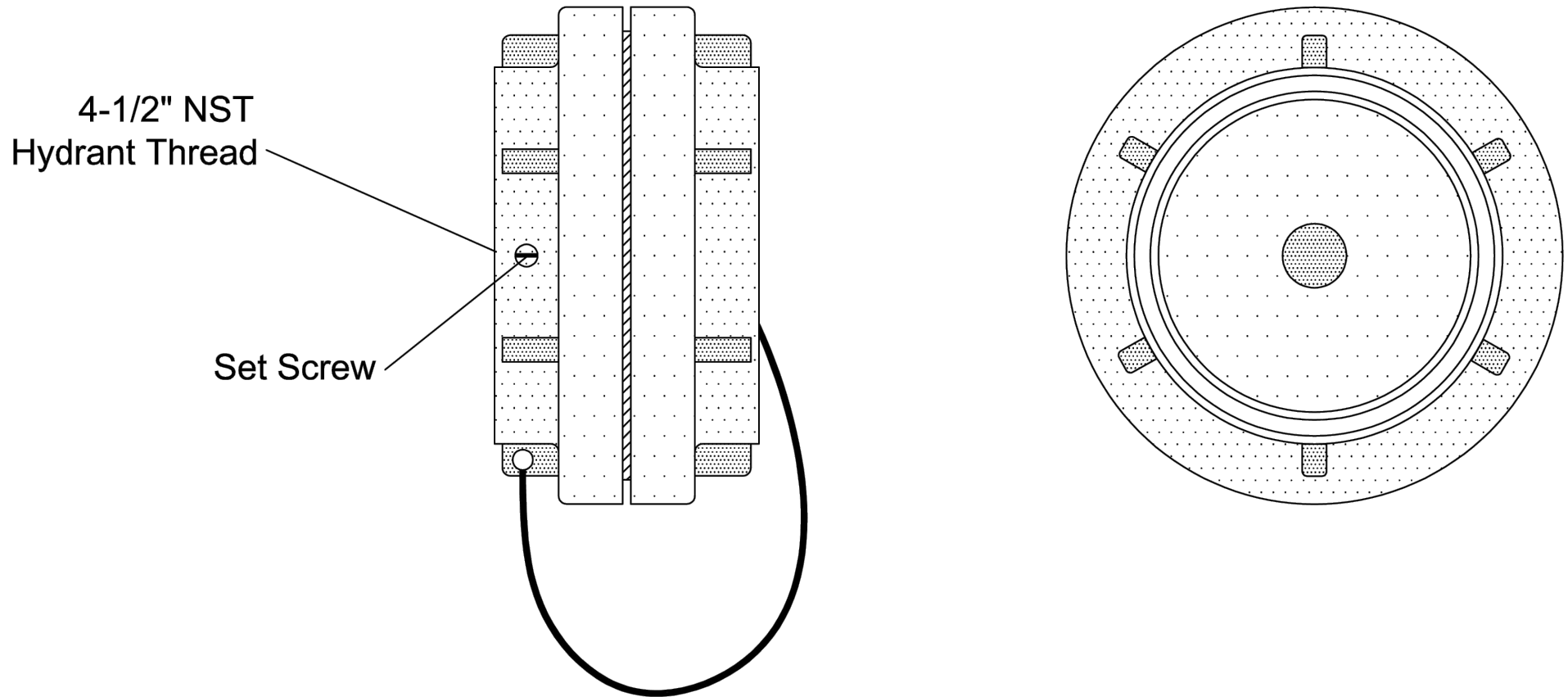
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 12/12/23

VALVE BOX COLLAR PLACEMENT
DETAIL

STANDARD PLAN
210.03

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



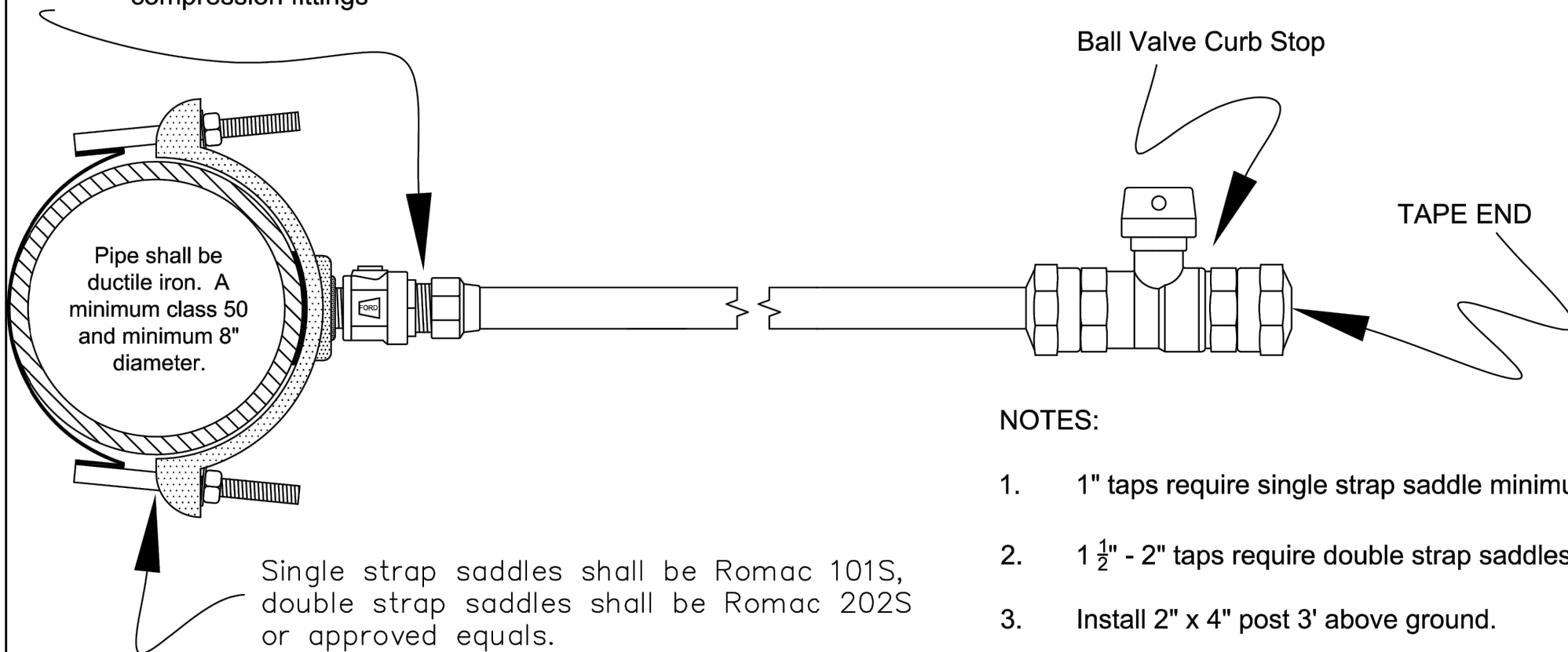
Stortz coupler shall be mounted permanently to the 4-1/2" port on all new fire hydrants.
A threaded adapter will only be used for retro fit Stortz couplers on existing fire hydrants.

This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



Corporation stops shall be male Ford or Mueller male iron pipe thread (MIPT) x copper tube size (CTS) compression fittings



NOTES:

1. 1" taps require single strap saddle minimum.
2. 1 $\frac{1}{2}$ " - 2" taps require double strap saddles.
3. Install 2" x 4" post 3' above ground.

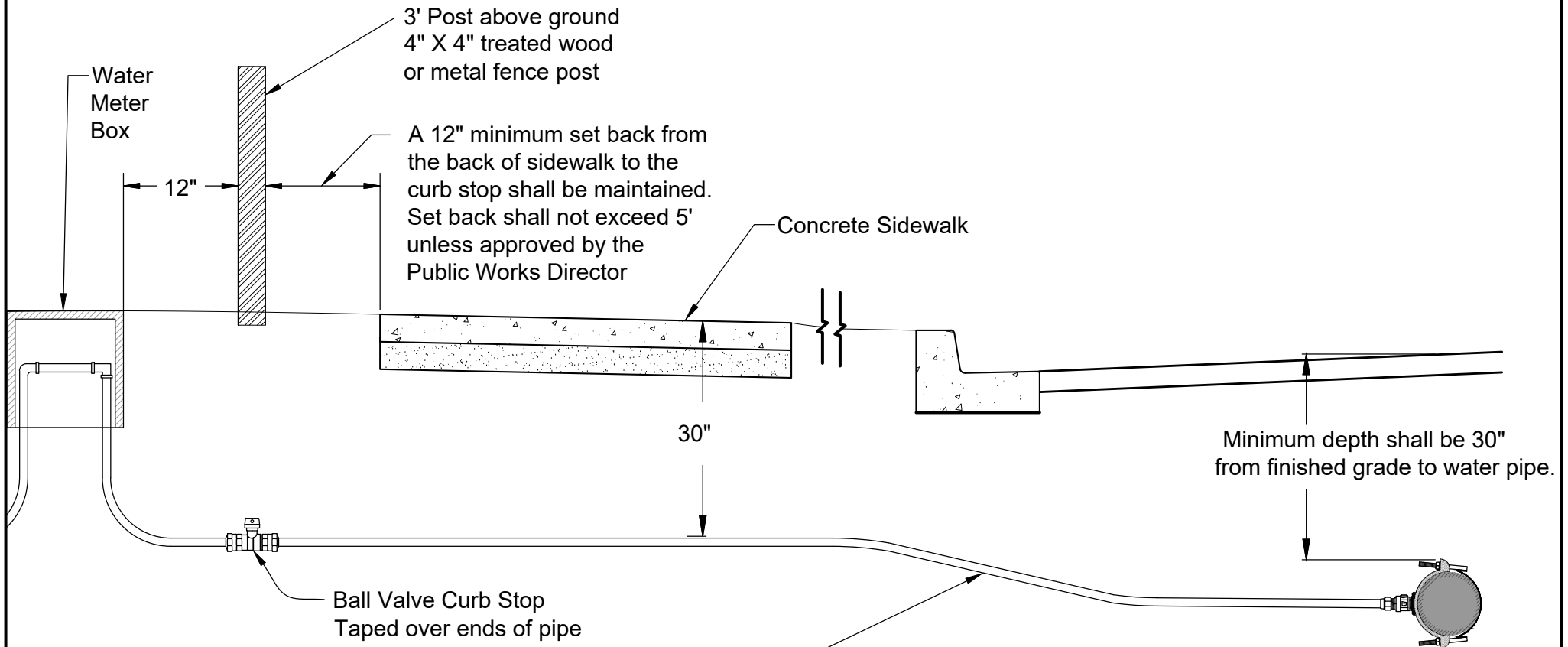
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JUNE 2007

STANDARD WATER SERVICE STUB
CONNECTION COMPONENTS

STANDARD PLAN
210.05

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



Service lines shall be no less than 1"
in diameter, type K copper tube
or CTS polyethylene pipe.
Service lines larger than 1" shall be
constructed with CTS polyethylene pipe
and #12 tracer wire.

NOTES:

1. CITY PROVIDES AND INSTALLS THE METER AND METER BOX FOR SERVICES 1" AND SMALLER.

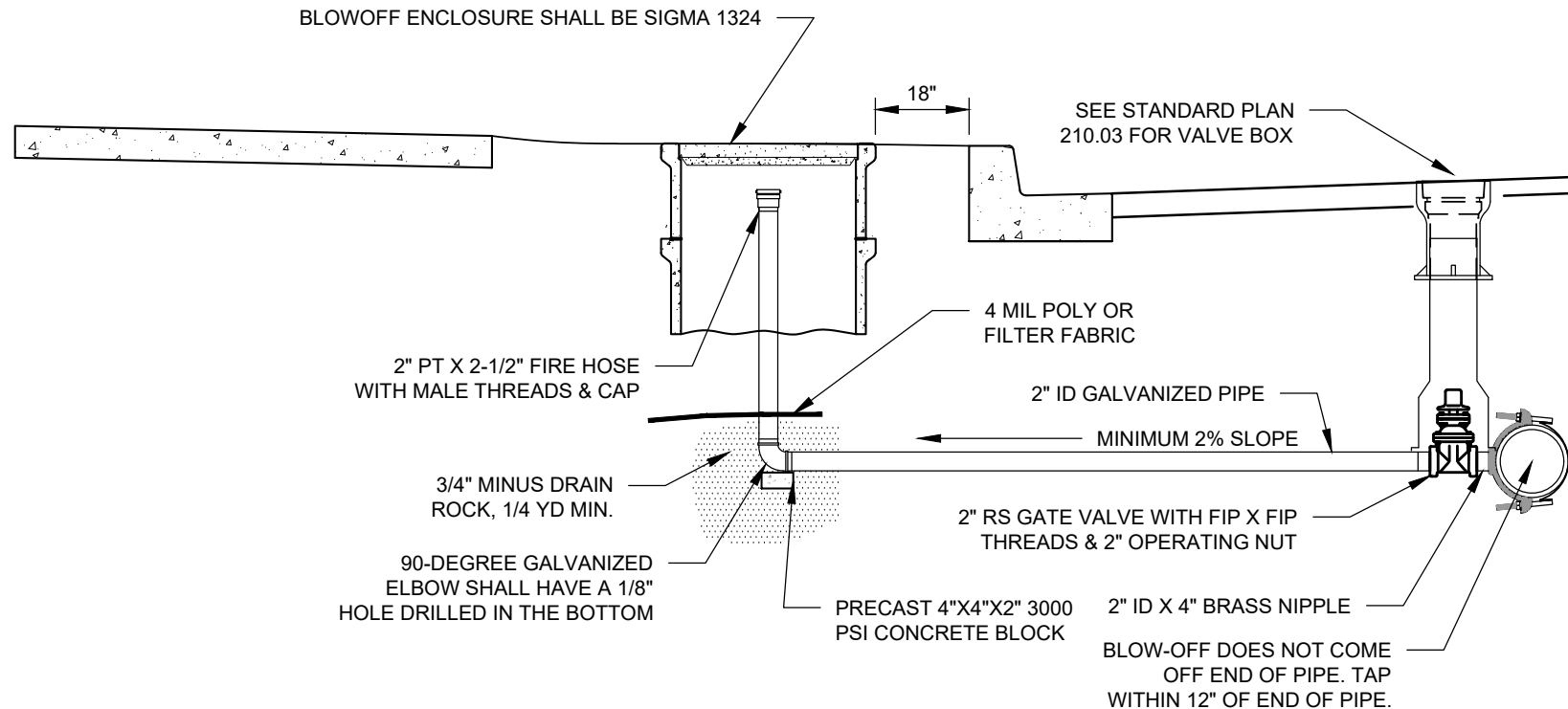
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

WATER SERVICE PLACEMENT
PROFILE

STANDARD PLAN
210.06

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

WATER BLOW-OFF PLACEMENT
PROFILE

STANDARD PLAN
210.08



CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

This drawing is not to scale

1. THRUST BLOCKS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - A. ALL CHANGES IN DIRECTION VERTICAL AND HORIZONTAL
 - B. ALL DEAD ENDS,
 - C. ALL VALVES 12-INCH AND LARGER (SIZE FOR CLOSED CONDITION)
 - D. AT OTHER LOCATIONS REQUIRED BY THE CITY ENGINEER.
2. THRUST BLOCKS SHALL BE SIZED AS REQUIRED BY SOIL CONDITIONS AND DESIGN PRESSURE.
3. PLACE CONCRETE AGAINST UNDISTURBED TRENCH WALL.
4. CONCRETE SHALL BE 3000 PSI MINIMUM.
5. ALL CONCRETE SHALL BE PLACED SO THAT PIPE, FITTING JOINTS, BOLTS & NUTS, ETC. WILL BE ACCESSIBLE FOR REPAIRS.
6. PLACE ONE LAYER OF 6 MIL PLASTIC BETWEEN THE FITTING AND CONCRETE TO FACILITATE FUTURE REMOVAL OF THE THRUST BLOCK IF REQUIRED. FOR BLOCKS THAT WILL BE REMOVED IN THE FUTURE, PLACE 2, #4 RE-BAR LIFTING LOOPS IN TO OF THE WET CONCRETE.
7. ANCHOR RODS SHALL BE ¾" DIAMETER GALVANIZED STEEL RODS OR #6 EPOXY COATED REINFORCEMENT BAR, AASHTO M284, HAVING AN 18" MINIMUM EMBEDMENT IN THE CONCRETE.
8. ALL THRUST BLOCKS SHALL BE SIZED FOR 150 PSI WATER PRESSURE. (MINIMUM TESTING PRESSURE)
9. IF THE REQUIRED BEARING AREA IS LESS THEN 1 SQUARE FOOT, A THRUST BLOCK SHALL NOT BE REQUIRED.

DETERMINATION OF THRUST BLOCK AREA

NOTE: WHEN THRUST BLOCK BEARING AREA IS NOT SPECIFIED IN THE PLANS OR DETERMINED BY THE ENGINEER, THE FOLLOWING PROCEDURE SHALL BE USED TO DETERMINE REQUIRED BEARING AREA.

1. DETERMINE THRUST (T) FOR THE TYPE OF FITTING OR JOINT AND SIZE OF PIPE, FROM TABLE NO. 1 OR TABLE NO. 3 OF CITY STANDARD PLAN 210.10.
2. DETERMINE BEARING CAPACITY (B) OF SOIL FROM TABLE NO. 2 OF CITY STANDARD PLAN 210.10
3. DETERMINE REQUIRED BEARING AREA (A) AS FOLLOWS:

$$A = \frac{T \times \text{PRESSURE FACTOR}}{B}$$

DESIGN PRESSURE = 175 PSI
PIPE = 12"
FITTING = TEE
EXAMPLE:
SOIL = SILT

FROM TABLE NO. 1: T = 15,310 LB.
FROM TABLE NO. 2: B = 1,000 LB/FT²

$$A = \frac{15,310 \times 1.75}{1,000} = 26.8 \text{ FT}^2$$



CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

TABLE NO. 1
THRUST AT FITTINGS IN POUNDS AT 100 PSI OF WATER PRESSURE

This drawing is not to scale

PIPE SIZE	TEES AND DEAD ENDS	90 DEGREE BEND	45 DEGREE BEND	22.5 DEGREE BEND	11.25 DEGREE BEND
4"	1850	2610	1420	720	394
6"	3800	5370	2910	1470	810
8"	6580	9300	5040	2650	1372
10"	10750	15200	8240	4170	2216
12"	15310	21640	11720	5940	3128
14"	20770	29360	15910	8060	4241
16"	26880	38010	20590	10430	5468
18"	29865	42235	22858	11653	5855

NOTE: FOR WATER PRESSURE DIFFERENT THEN 100 PSI, MULTIPLY THRUST FOUND IN TABLE NO. 1 BY REQUIRED PROPORTION.

EXAMPLE: DESIGN PRESSURE = 175, MULTIPLY VALUE IN TABLE BY 1.75

TABLE NO. 2

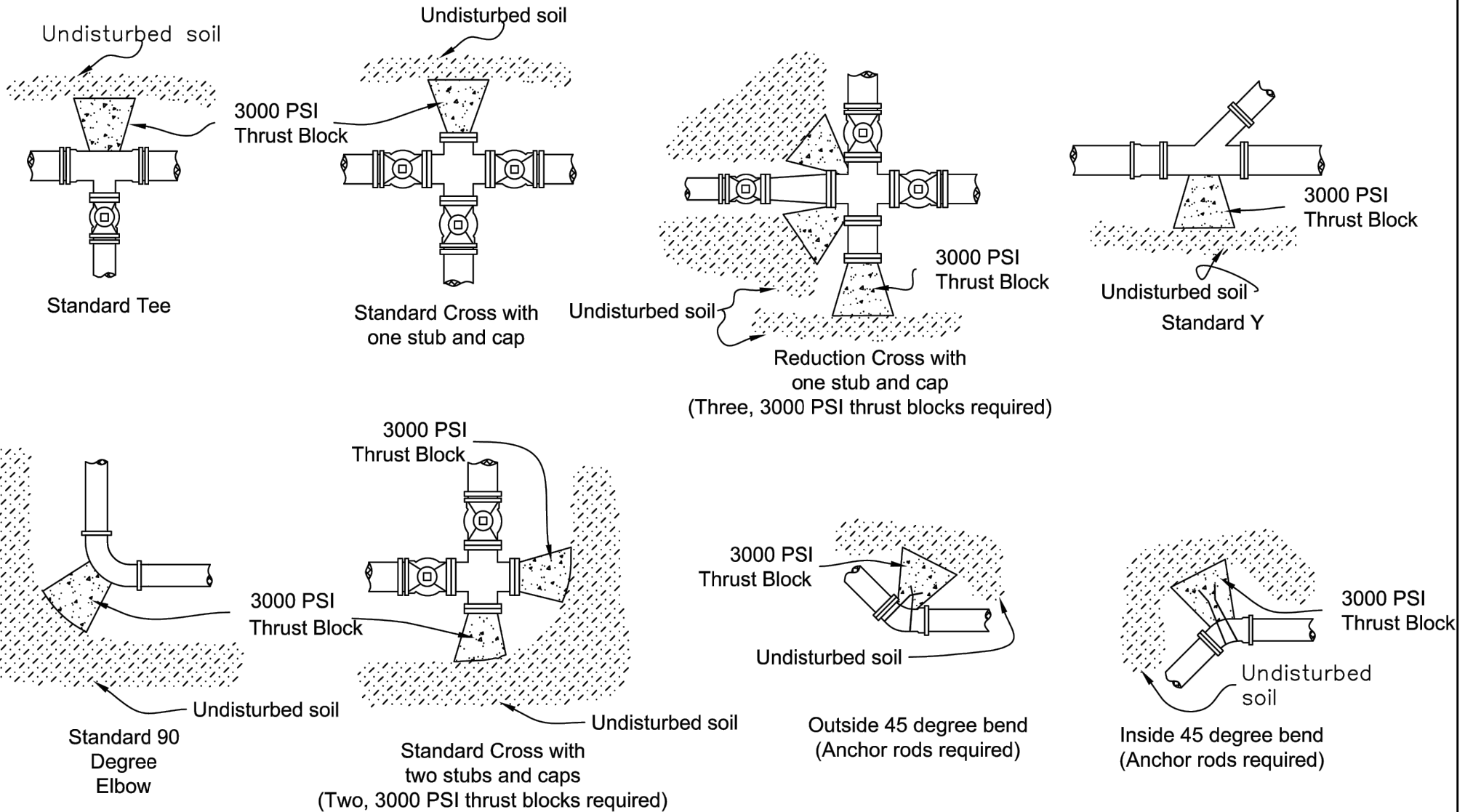
SOIL	SAFE BEARING LOAD LB/SQ.FT.
SOFT CLAY	500
SILT	1000
SAND	2000
SAND & GRAVEL	3000
SAND GRAVEL CEMENTED WITH CLAY	4000
HARD CLAY	4000

TABLE NO. 3

SIDE THRUST PER 100 LB/SQ.IN. PRESSURE PER DEGREE OF DEFLECTION			
PIPE SIZE	SIDE THRUST-LB	PIPE SIZE	SIDE THRUST-LB
4"	N/A	14"	377
6"	N/A	16"	486
8"	N/A	18"	665
10"	197	20"	790
12"	278	24"	1150

MULTIPLY THRUST BY DEGREE OF DEFLECTION TO OBTAIN TOTAL THRUST

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



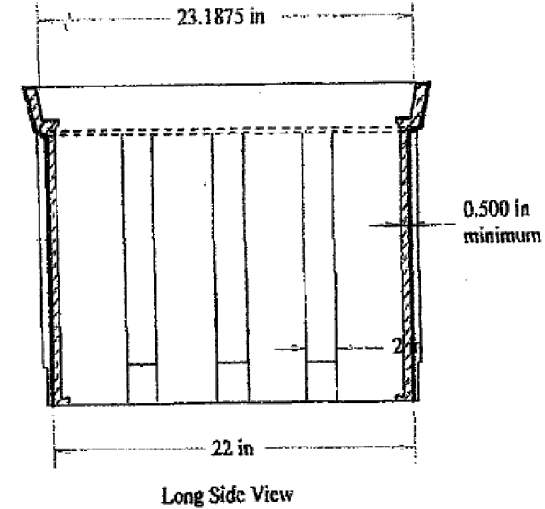
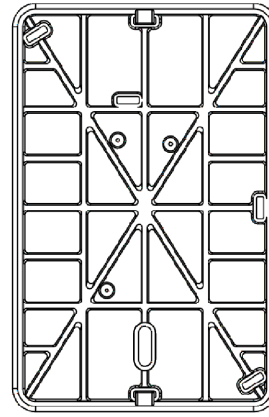
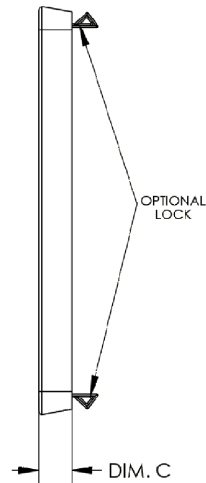
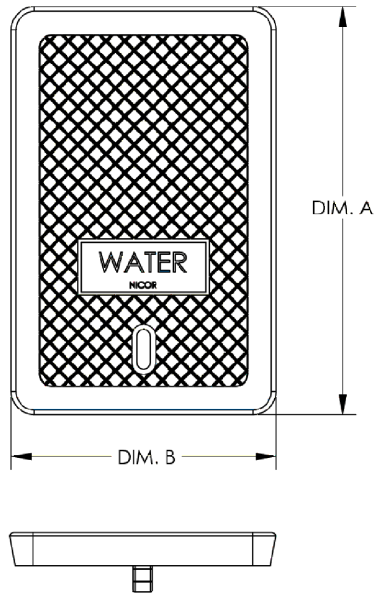
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JUNE 2007

THRUST BLOCK
PLACEMENT OVERVIEW

STANDARD PLAN
210.11

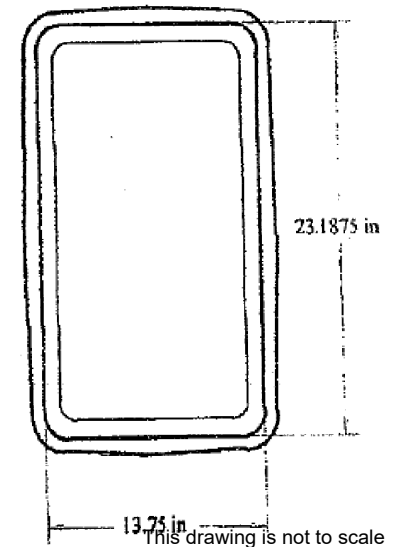
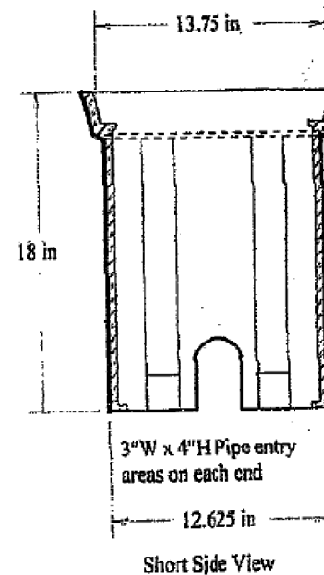
CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



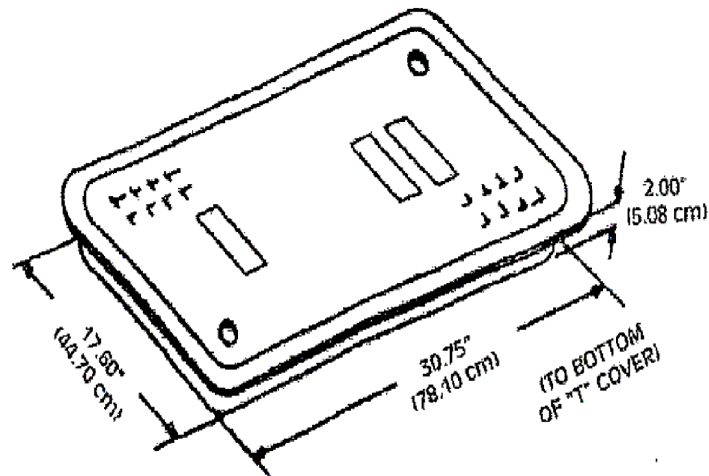
MSBCF-1324-18 Meter Box

METER LID
STANDARD SUPPLIER: NICOR INC.
PART NO: B36
NOMINAL SIZE: 13" X 24"
DIM A = 23-1/8"
DIM B = 13-3/4"
DIM C = 2"

METER BOX
STANDARD SUPPLIER: MID-STAES PLASTICS, INC
PART NO: MSBCF-1324-18 METER BOX
FITS NOMINAL SIZE 13" X 24" METER LID
INTERIOR COLLAR DIMENSIONS: 13.75" X 23.1875"
HEIGHT: 18"



CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



METER BOX

STANDARD SUPPLIER: APPLIED ENGINEERING PRODUCTS

PART NO: 1730-2P

FITS NOMINAL SIZE 17" X 30" METER BOX

INTERIOR COLLAR DIMENSIONS: 17.60" X 30.75"

HEIGHT: 2"

NO METER DOOR

METER BOX

STANDARD SUPPLIER: APPLIED ENGINEERING PRODUCTS

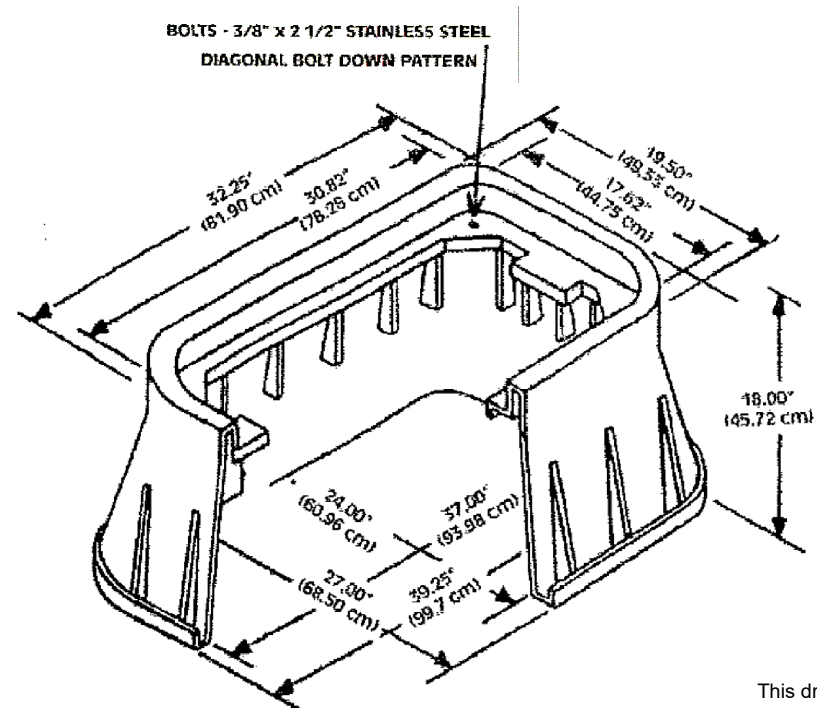
PART NO: 1730P

FITS NOMINAL SIZE 17" X 30" METER LID

INTERIOR COLLAR DIMENSIONS: 17.62" X 30.82"

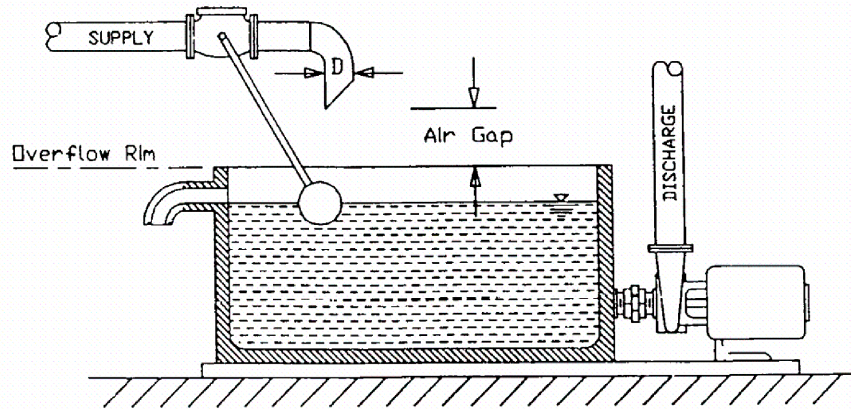
HEIGHT: 18"

EXTENSION(S) HEIGHT: 6"



This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES

MANUFACTURED AIR GAP FITTINGS MUST MEET THE DIMENSION CRITERIA OF AN APPROVED AIR GAP AS SHOWN IN THIS DOCUMENT.

FLEXIBLE HOSES OR TUBING WHICH MAY BE BENT OR EASILY ALTERED TO REDUCE THE AIR GAP ARE NOT ALLOWED.

AIR GAPS MUST BE INSTALLED ABOVE GRADE UNLESS OTHERWISE APPROVED BY THE CROSS CONNECTION CONTROL SPECIALIST.

ADEQUATE ACCESS AND CLEARANCES FOR INSPECTION, TESTING, AND REPAIRS MUST BE PROVIDED.

ALL INSTALLATIONS ARE SUBJECT TO APPROVAL BY THE CROSS CONNECTION CONTROL SPECIALIST.

MINIMUM AIR GAP DIMENSIONS

EFFECTIVE DIAMETER OF SUPPLY PIPE OPENING "D"	AIR GAP SEPARATION	IF WALLS, RIBS, OR OBSTRUCTIONS ARE WITHIN 3 TIMES D FROM THE AIR GAP CENTERLINE	IF INTERSECTING WALLS ARE WITHIN 4 TIMES D FROM THE AIR GAP CENTERLINE
NOT GREATER THAN 0.5 INCH	1 INCH	1.5 INCHES	2 INCHES
NOT GREATER THAN 0.75 INCH	1.5 INCHES	2.25 INCHES	3 INCHES
NOT GREATER THAN 1 INCH	2 INCHES	3 INCHES	4 INCHES
1 INCH AND GREATER	2 TIMES D	3 TIMES D	4 TIMES D

SOME MATERIAL REPRODUCED COURTESY OF THE NORTHWEST SECTION OF THE AMERICAN WATER WORKS ASSOCIATION.

This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: MARCH 2007

APPROVED AIR GAP

STANDARD PLAN
220.01

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



MIN 6 INCHES ABOVE HIGHEST POINT IN DOWNSTREAM PIPING
MAX 60 INCHES ABOVE GRADE. MAY NOT BE INSTALLED IN
ENCLOSED SPACE.

ATMOSPHERIC VACUUM BREAKER (ONE ON EACH STATION)
NO VALVES ALLOWED DOWNSTREAM OF ATMOSPHERIC VACUUM
BREAKER

Union

SHUT OFF VALVE AND
CONTROL VALVES

SPRINKLER HEADS

CITY
METER

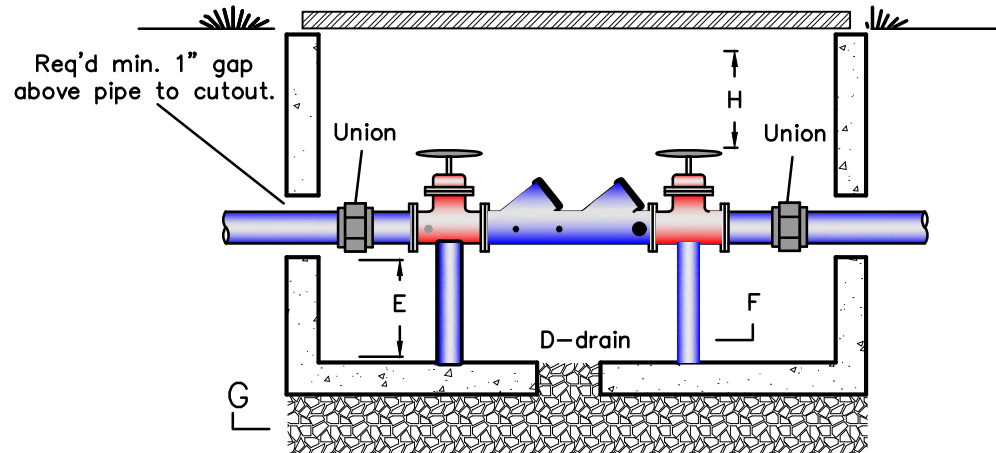
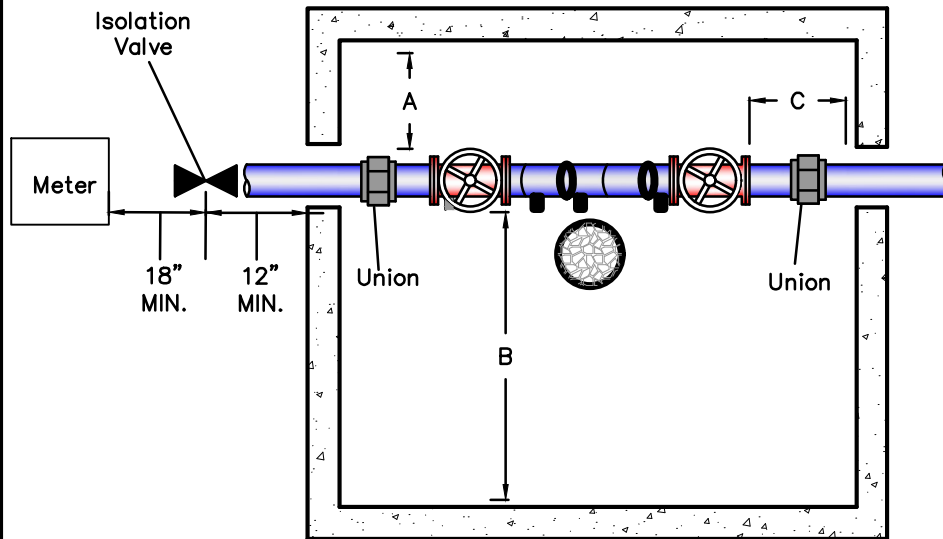
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: FEBRUARY 2013

ATMOSPHERIC VACUUM BREAKER
(AVB)

STANDARD PLAN
220.02

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



MINIMUM AND MAXIMUM CLEARANCES

ASSY SIZE:	LESS THAN 2.5 INCHES		2.5 INCHES AND GREATER	
	MIN	MAX	MIN	MAX
A	6	(NONE)	12	(NONE)
B	6	(NONE)	36	(NONE)
C	3	(NONE)	12	(NONE)
D	PROVIDE ADEQUATE DRAINAGE, THIS MEANS NO STANDING WATER ON FLOOR EXCEPT ON A TEMPORARY AND OCCASIONAL BASIS			
E	6	60	12	60
F	NO SUPPORT REQUIRED		PROVIDE SUPPORTS	
G	6 INCH GRAVEL DRAINFIELD (1,3)		12 INCH GRAVEL DRAINFIELD (1,3)	
H	6	18 (3)	12 (2)	(NONE)

(1) APPLIES ONLY IF INSTALLED IN UNDERGROUND VAULT OR PIT.

(2) MEASURE WHEN VALVE IS FULLY OPEN ON OS&Y VALVES.

(3) APPLIES ONLY IF INSTALLED IN ENCLOSURE WITH ACCESS DOOR ON TOP.

NOTES

INSTALL IN HORIZONTAL ORIENTATION WITH ID PLATE FACING UP UNLESS OTHERWISE APPROVED BY THE CROSS CONNECTION CONTROL SPECIALIST.

IF INSTALLED OUTDOORS ABOVE GROUND, PROVIDE FREEZE PROTECTION.

WINTERIZATION ARRANGEMENT OR BLOWOUT REQUIRED DOWNSTREAM OF ASSEMBLY. UNIONS ON BOTH SIDES OF ASSEMBLY ARE REQUIRED.

ALL INSTALLATIONS ARE SUBJECT TO APPROVAL BY THE CROSS CONNECTION CONTROL SPECIALIST.

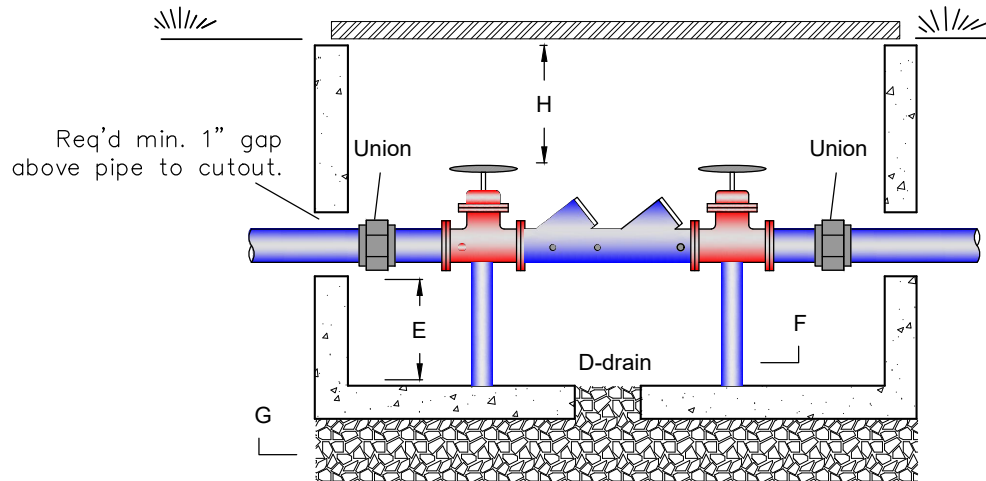
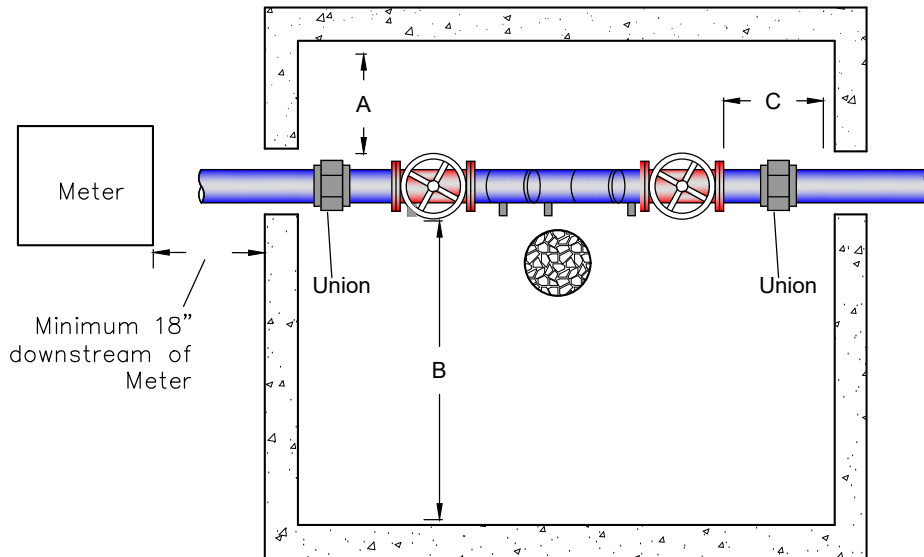
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

DOUBLE CHECK VALVE ASSEMBLY
(DCVA/DCDA) IRRIGATION APPLICATION

STANDARD PLAN
220.03

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



MINIMUM AND MAXIMUM CLEARANCES

ASSY SIZE:	LESS THAN 2.5 INCHES		2.5 INCHES AND GREATER	
	MIN	MAX	MIN	MAX
A	6	(NONE)	12	(NONE)
B	6	(NONE)	36	(NONE)
C	3	(NONE)	12	(NONE)
D	PROVIDE ADEQUATE DRAINAGE, THIS MEANS NO STANDING WATER ON FLOOR EXCEPT ON A TEMPORARY AND OCCASIONAL BASIS			
E	6	60	12	60
F	NO SUPPORT REQUIRED		PROVIDE SUPPORTS	
G	6 INCH GRAVEL DRAINFIELD (1,3)		12 INCH GRAVEL DRAINFIELD (1,3)	
H	16	18 (3)	18 (2)	(NONE)

(1) APPLIES ONLY IF INSTALLED IN UNDERGROUND VAULT OR PIT.

(2) MEASURE WHEN VALVE IS FULLY OPEN ON OS&Y VALVES.

(3) APPLIES ONLY IF INSTALLED IN ENCLOSURE WITH ACCESS DOOR ON TOP.

NOTES

INSTALL IN HORIZONTAL ORIENTATION WITH ID PLATE FACING UP UNLESS OTHERWISE APPROVED BY THE CROSS CONNECTION CONTROL SPECIALIST.

IF INSTALLED OUTDOORS ABOVE GROUND, PROVIDE FREEZE PROTECTION.

WINTERIZATION ARRANGEMENT OR BLOWOUT REQUIRED DOWNSTREAM OF ASSEMBLY. UNIONS ON BOTH SIDES OF ASSEMBLY ARE REQUIRED.

ALL INSTALLATIONS ARE SUBJECT TO APPROVAL BY THE CROSS CONNECTION CONTROL SPECIALIST.

This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: DECEMBER 2015

DOUBLE CHECK VALVE ASSEMBLY
(DCVA/DCDA) RESIDENTIAL APPLICATION

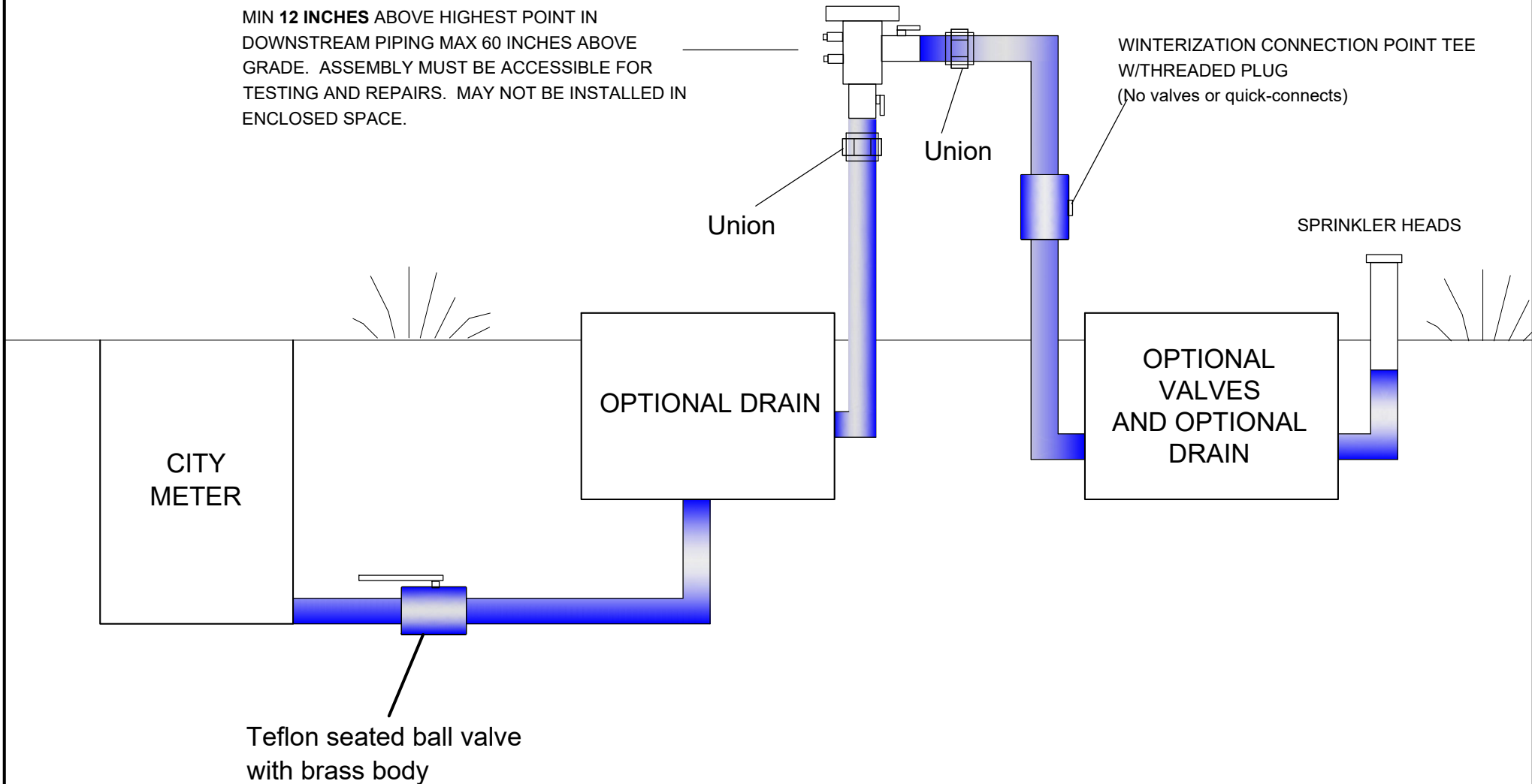
STANDARD PLAN
220.04

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



PRESSURE VACUUM BREAKER ASSEMBLY

MIN 12 INCHES ABOVE HIGHEST POINT IN
DOWNSTREAM PIPING MAX 60 INCHES ABOVE
GRADE. ASSEMBLY MUST BE ACCESSIBLE FOR
TESTING AND REPAIRS. MAY NOT BE INSTALLED IN
ENCLOSED SPACE.



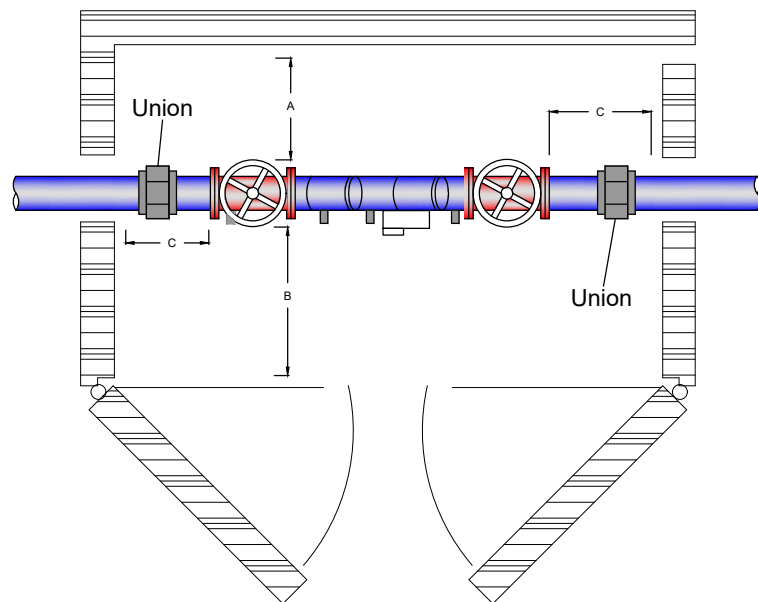
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: FEBRUARY 2013

PRESSURE VACUUM BREAKER
ASSEMBLY (PVBA/SVBA)

STANDARD PLAN
220.05

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



MINIMUM AND MAXIMUM CLEARANCES

ASSY SIZE:	LESS THAN 2.5 INCHES		2.5 INCHES AND GREATER	
	MIN	MAX	MIN	MAX
A	8	(NONE)	12	(NONE)
B	8	18 (1)	12	18 (1)
C	6	(NONE)	12	(NONE)
D	3	18 (3)	12 (2)	18 (3,2)
E	12	60	12	60
F	NO SUPPORT REQUIRED		PROVIDE SUPPORTS	

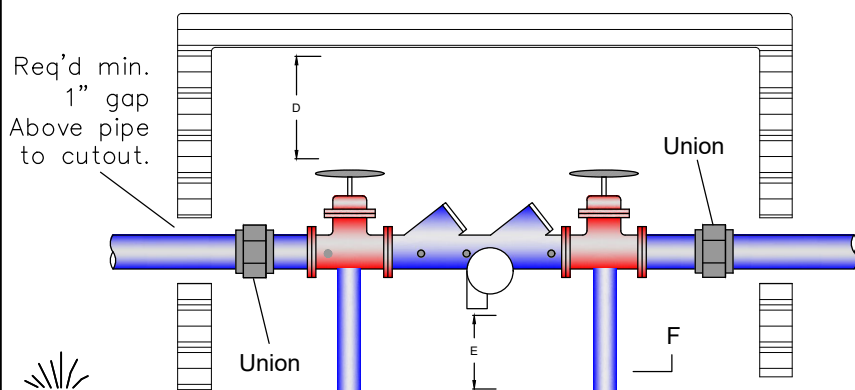
(1) APPLIES ONLY IF INSTALLED IN ENCLOSURE WITH ACCESS DOOR(S) ON SIDE.

(2) MEASURE WHEN VALVE IS FULLY OPEN ON OS&Y VALVES.

(3) APPLIES ONLY IF INSTALLED IN ENCLOSURE WITH ACCESS DOOR ON TOP.

NOTES

1. INSTALL SO THAT THE LOWEST POINT ON THE DIFFERENTIAL RELIEF VALVE IS AT LEAST 12 INCHES ABOVE GRADE.
2. IF DRAIN LINE IS TO BE INSTALLED UNDER THE DIFFERENTIAL PRESSURE RELIEF VALVE PROVIDE APPROVED AIR GAP BETWEEN RELIEF VALVE OUTLET AND RECEIVING PIPE.
3. INSTALL IN HORIZONTAL ORIENTATION WITH ID PLATE FACING UP UNLESS OTHERWISE APPROVED BY THE CROSS CONNECTION CONTROL SPECIALIST.
4. FOR OUTDOOR INSTALLATIONS, PROVIDE HEATED ENCLOSURE WITH SUFFICIENTLY SIZED DAYLIGHT DRAIN.
5. IF INSTALLED INDOORS, PROVIDE FOR ADEQUATE DRAINAGE (FLOOR DRAINS ARE GENERALLY ACCEPTABLE IF DRAIN SIZE IS TWICE THE DIAMETER OF BACKFLOW PREVENTER).
6. WINTERIZATION ARRANGEMENT OR BLOWOUT REQUIRED DOWNSTREAM OF ASSEMBLY. UNIONS ON BOTH SIDES OF ASSEMBLY ARE REQUIRED.
7. ALL INSTALLATIONS ARE SUBJECT TO APPROVAL BY THE CROSS CONNECTION CONTROL SPECIALIST.



This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JANUARY 2015

REDUCED PRESSURE BACKFLOW
ASSEMBLY (RPBA/RPDA)

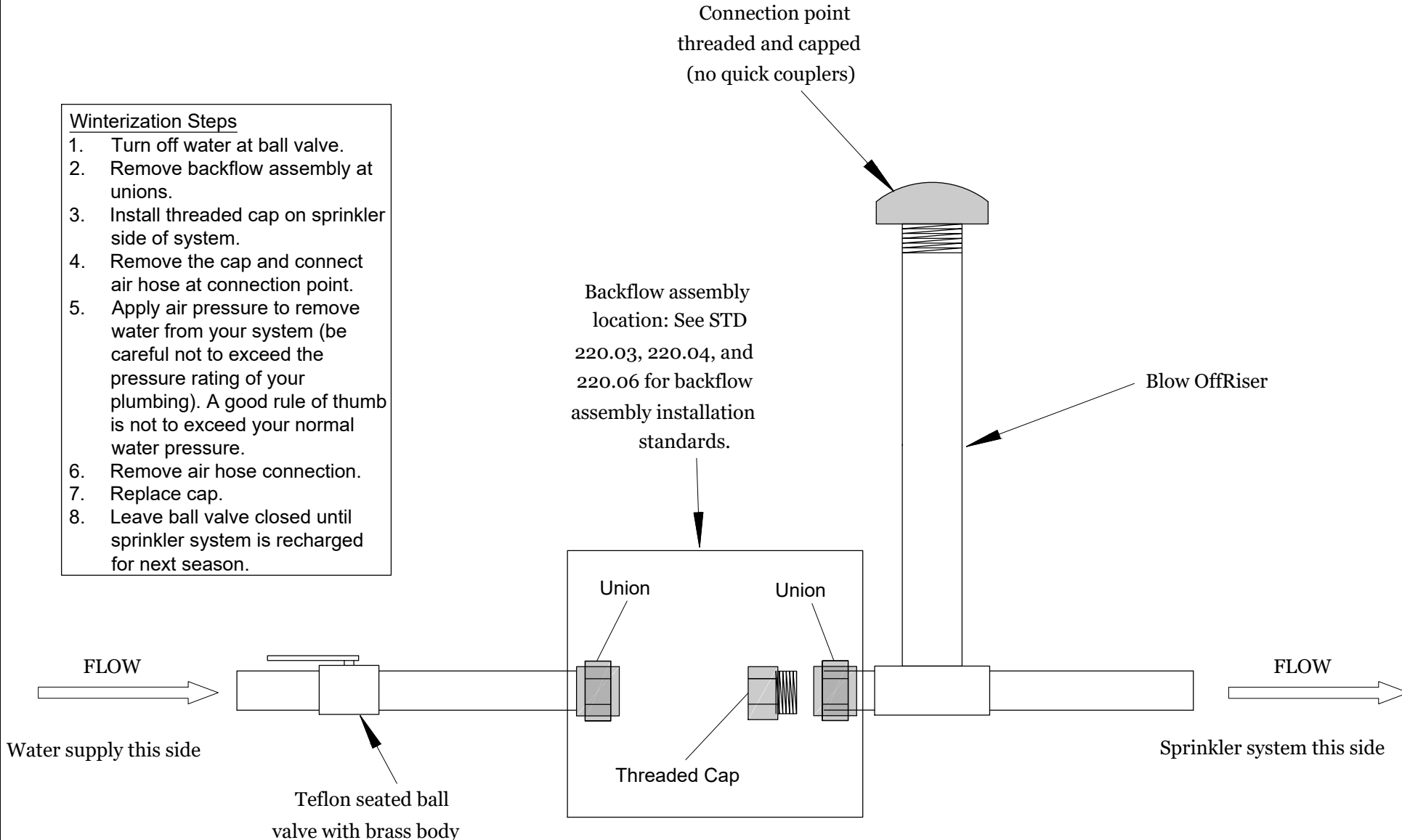
STANDARD PLAN
220.06

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



Winterization Steps

1. Turn off water at ball valve.
2. Remove backflow assembly at unions.
3. Install threaded cap on sprinkler side of system.
4. Remove the cap and connect air hose at connection point.
5. Apply air pressure to remove water from your system (be careful not to exceed the pressure rating of your plumbing). A good rule of thumb is not to exceed your normal water pressure.
6. Remove air hose connection.
7. Replace cap.
8. Leave ball valve closed until sprinkler system is recharged for next season.



This drawing is not to scale

STANDARD PLAN 310.00

SANITARY SEWER NOTES

1. ALL MANHOLES AND CURB INLETS SHALL BE PRE-CAST CONCRETE UNITS UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
2. MANHOLE PIPE CONNECTORS SHALL BE CAPABLE OF A 10⁰ DEFLECTION IN ANY ONE DIRECTION AND SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER. SANITARY MANHOLES WITH PVC PIPE CONNECTIONS SHALL USE THE A-LOK PIPE CONNECTOR, MANUFACTURED BY A-LOK PRODUCTS OR PSX, MANUFACTURED BY PRESS-SEAL GASKETS CORP. OR APPROVED EQUAL. ALL OTHER CONNECTION SYSTEMS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
3. ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS, AT PIPE CONNECTIONS, AND JOINTS, SHALL BE FILLED OR REPAIRED IN THE FIELD.
4. MANHOLES SHALL BE SET A MINIMUM OF 8 INCHES AND NOT MORE THAN 12 INCHES BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH RISER RINGS AS REQUIRED.
5. MANHOLE CONE SECTION SHALL BE ECCENTRIC.
6. IN MANUFACTURING THE MANHOLES, THE CONTRACTOR SHALL REVIEW THE DETAILS AS OUTLINED IN ANY TECHNICAL SPECIFICATIONS AND/OR PLANS, WHICH SHOW THE SEWER PIPE SLOPE CALCULATED TO THE CENTERLINE OF THE MANHOLE AND MANUFACTURE/INSTALL ACCORDINGLY.
7. MASTIC JOINT SEAL SHALL BE PLACED AT EVERY JOINT BETWEEN BARREL SECTIONS, RISER SECTIONS, AND THE CAST IRON TOP.
8. MANHOLE RING & COVER SHALL BE INLAND FOUNDRY COMPANY INC. #817 WITH A SOLID COVER LABELED "SEWER" OR APPROVED EQUAL.
9. CAST IRON MANHOLE RING AND COVER USED WITH THE SHALLOW TYPE MANHOLE DISPLAYED IN STANDARD PLAN 310.03 SHALL BE INLAND FOUNDRY COMPANY INC. #723-1 OR #723-2 WITH A SOLID 48" MAIN COVER AND A SOLID 24" LIMITED ACCESS COVER OR AN APPROVED EQUAL.
10. WHEN USING THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.02, A MINIMUM SEPARATION BETWEEN THE FLAT TOP AND THE INSIDE BOTTOM SURFACE SHALL BE NO LESS THAN 2'-0". IN THE EVENT THE MINIMUM SEPARATION CANNOT BE MAINTAINED, THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.03 SHALL BE USED.
11. PRE-CAST MANHOLE BASE SHALL BE NO LESS THAN 24" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE FLOW CHANNEL AND BASE ROCK.
12. SANITARY BASE SECTIONS SHALL BE PRE-CAST, CUSTOM UNITS FITTED WITH "A-LOK", PSX GASKETS (OR APPROVED EQUAL) AROUND ALL ATTACHED PIPE SECTIONS. WHERE A "KNOCK OUT" VS. A "PRE-CAST" HOLE MUST BE PLACED, A SAND COLLAR OR AN APPROVED EQUAL SHALL BE USED FOR PIPE CONNECTION. THE SAND COLLAR SHALL BE PROPERLY SEALED INSIDE AND OUTSIDE WITH NON-SHRINK, QUICK SET GROUT.

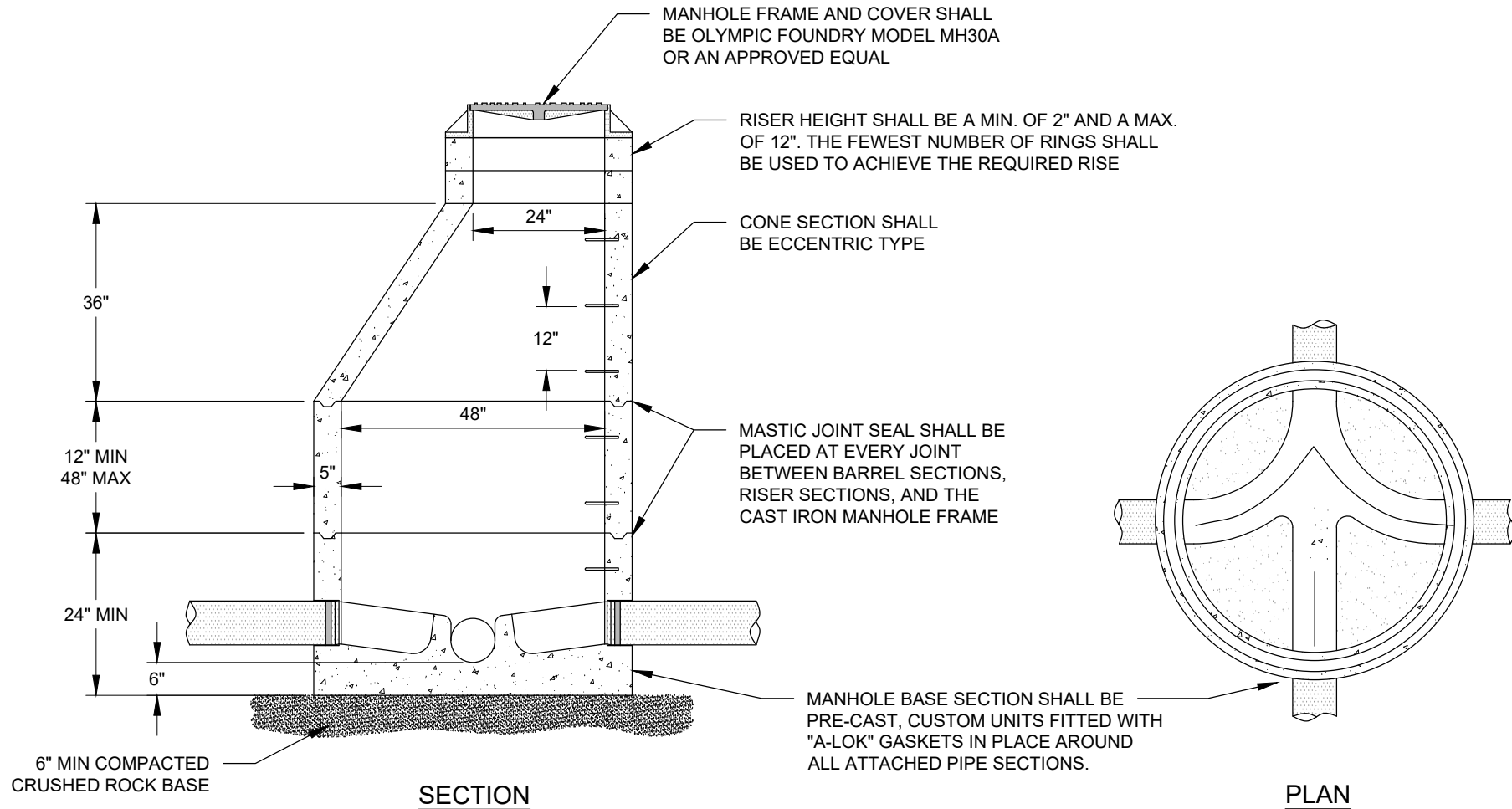
13. BARREL SECTIONS SHALL BE NO LESS THAN 12" IN HEIGHT. BARREL SECTIONS FOR THE 310.03 SHALLOW TYPE MANHOLE SHALL BE NO LESS THAN 12" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE USED. THE BARREL SECTION FOR THE 310.02 SHALLOW TYPE MANHOLE SHALL BE NO LESS THE 24" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE USED.
14. RISER RINGS VARY IN HEIGHT FROM 1" TO 6". ANY NEED FOR ADJUSTMENT OVER 12" AT THE TOP SHOULD BE SATISFIED BY USING A 12" BARREL SECTION UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR. A MINIMUM 2" OF RISERS SHALL BE USED ON ALL MANHOLES. USE THE LEAST NUMBER OF RISER RINGS TO ACHIEVE THE REQUIRED RISE. RISER RINGS SHALL BE PRE-CAST 3000 PSI CONCRETE OR HDPE (HIGH DENSITY POLYETHYLENE) MANHOLE ADJUSTING RINGS. ALL RISERS SHALL HAVE BUTYL OR MASTIC SEALER APPLIED TO BOTH THE TOP AND BOTTOM SURFACES. RISER STACKS SHALL BE WATER TIGHT.
15. MANHOLE STEPS SHALL BE LANE BRAND, POLYPROPYLENE MANHOLE STEPS MODEL NO. P-13938E OR AN APPROVED EQUAL.
16. ALL SANITARY SEWER PIPE SHALL BE FULLY BEDDED WITH A MINIMUM OF 4-IN. UNDER THE PIPE AND A MINIMUM OF 6-IN. OVER ANY PIPE. BEDDING MATERIALS SHALL BE CRUSHED ROCK AS PER THE STANDARD SPECIFICATION. ALL OTHER BEDDING MATERIALS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
17. PRE-CAST MANHOLE BASES SHALL BE SET LEVEL ON A MINIMUM OF 6-IN. OF WELL-COMPACTED CRUSHED AGGREGATE. SANITARY SEWER PIPE AND MANHOLES SUBJECTED TO GROUNDWATER SHALL BE PLACED ON 4-IN. OF CRUSHED ROCK BEDDING OVER 12" OF CLASS B FOUNDATION ROCK SEPARATED BY FILTER FABRIC AS PER STANDARD SPECIFICATION 9-03.17 AND CITY STANDARD PLAN 310, SECTIONS 16 & 17.
18. THE BEDDING UNDER SANITARY SEWER PIPE AND MANHOLES SHALL BE COMPACTED PRIOR TO PIPE AND MANHOLE PLACEMENT TO PROVIDE UNIFORM SUPPORT ALONG THE ENTIRE LENGTH OF THE PIPE AND UNDER MANHOLES. ONLY PIPE BEDDING MATERIAL SHALL BE IN CONTACT WITH SANITARY SEWER PIPE OR MANHOLES. ANY DITCH RUN GRAVEL, ASPHALT OR CONCRETE CHUNKS OR SIMILAR MATERIALS SHALL BE REMOVED.
19. ELEVATIONS AND DISTANCES BETWEEN ELEVATIONS SHALL BE PROVIDED TO THE CITY BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER AFTER BEDDING PIPE ON COMPACTED BEDDING, PRIOR TO BACKFILL, AT A MINIMUM OF EVERY 100' AND AT MANHOLE TERMINATIONS. SEWER PIPE GRADE SHALL CORRESPOND TO APPROVED PLANS AND IN NO CASE SHALL BE LESS THAN 0.4% WITHOUT BELLIES OR RISES.
20. THE USE OF NATIVE BACKFILL MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR, GRAVEL BACKFILL PER THE STANDARD SPECIFICATIONS 9-03.12(3) OR OTHER GRANULAR MATERIAL APPROVED BY THE PUBLIC WORKS DIRECTOR SHALL BE USED.
21. MANHOLE BARREL SECTIONS AND RISER RINGS SHALL BE SEALED WATERTIGHT WITH MASTIC. IN ADDITION, ALL SANITARY MANHOLES SUBJECTED TO GROUNDWATER SHALL BE SEALED WITH CITY-APPROVED SEALANT ON THE EXTERIOR FROM THE BASE TO 3'

ABOVE THE SEASONAL HIGH GROUNDWATER LEVEL AND SHALL BE VACUUM TESTED PER ASTM C-1244 WHEN SEASONAL HIGH GROUNDWATER IS OVER 3' HIGH FROM THE BASE.

22. ALL SANITARY SEWER PIPE SHALL BE TESTED BY APPLICATION OF AN AIR PRESSURE TEST IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (7-17.3(2)E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IN THE PIPE AND MANHOLES IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED TO OBSERVE TV INSPECTION (PERFORMED BY CONTRACTOR OR THEIR ASSIGNEE) OF ALL LINES 8-IN. AND LARGER. ANY WORK FAILING AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS.
23. ALL TV INSPECTIONS SHALL INCLUDE A BALL OR EQUIVALENT DEVICE ATTACHED TO THE CAMERA TO SHOW ANY "BELLY" IN THE LINE WHICH MAY EXCEED 3/4-INCH IN DEPTH. INSPECTION SHALL BE RECORDED ON DVD AND VIEWABLE THRU A WINDOWS MEDIA PLAYER. VIDEO MUST BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
24. LATERAL SIDE SEWER SERVICES MUST BE MARKED WITH A NO. 12 SOLID COPPER LOCATOR WIRE AND THE ENDS, MARKED WITH A BURIED STEEL FENCE POST EXTENDED ABOVE THE GROUND AT LEAST 6-IN. IN URBAN AREAS AND 4 FT. IN RURAL AREAS. THE LOCATOR WIRE SHALL BE TIED AROUND THE MAIN LINE AND EXTENDED ALONG THE SIDE SEWER AND UP THE MARKER POST.
25. SEWER SERVICE LATERALS SHALL BE LAID BETWEEN MINIMUM AND MAXIMUM GRADES AS DETERMINED BY THE BUILDING OFFICIAL.
26. SEWER SERVICE LATERALS SHALL HAVE A MIN. OF ONE CLEANOUT A MIN. OF 12" BEHIND THE BACK OF SIDEWALK.

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. SAND COLLARS SHALL BE USED ONLY FOR RETRO FIT BREAKINS ON MANHOLES.

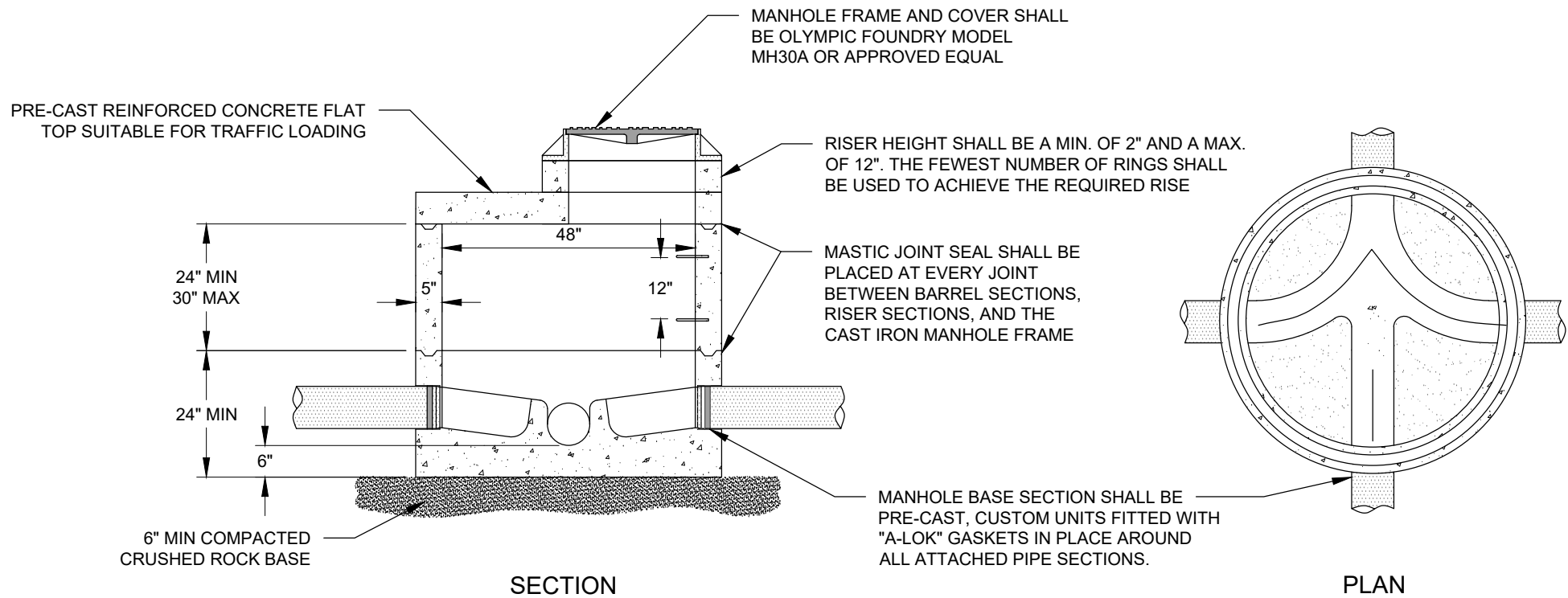
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: DECEMBER 2013

SANITARY SEWER MANHOLE

STANDARD PLAN
310.01

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. SAND COLLARS SHALL BE USED ONLY FOR RETRO FIT BREAKINS ON MANHOLES.
2. AN ECCENTRIC CONE SECTION SHALL BE USED IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT.

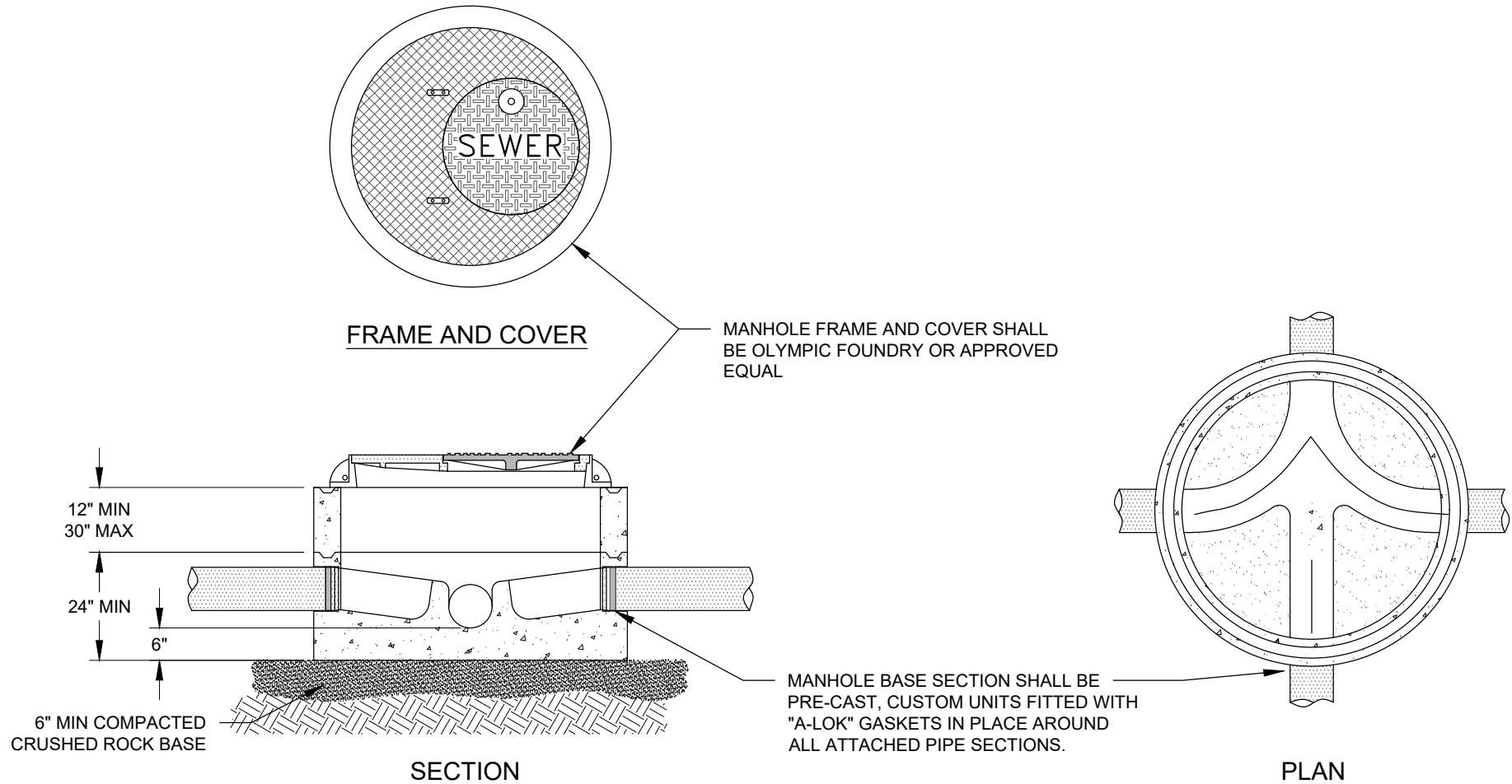
This drawing is not to scale

CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: DECEMBER 2013

SANITARY SEWER MANHOLE
(FLAT TOP STYLE)

STANDARD PLAN
310.02

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. SAND COLLARS SHALL BE USED ONLY FOR RETRO FIT BREAKINS ON MANHOLES.
2. AN ECCENTRIC CONE SECTION SHALL BE USED IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT.

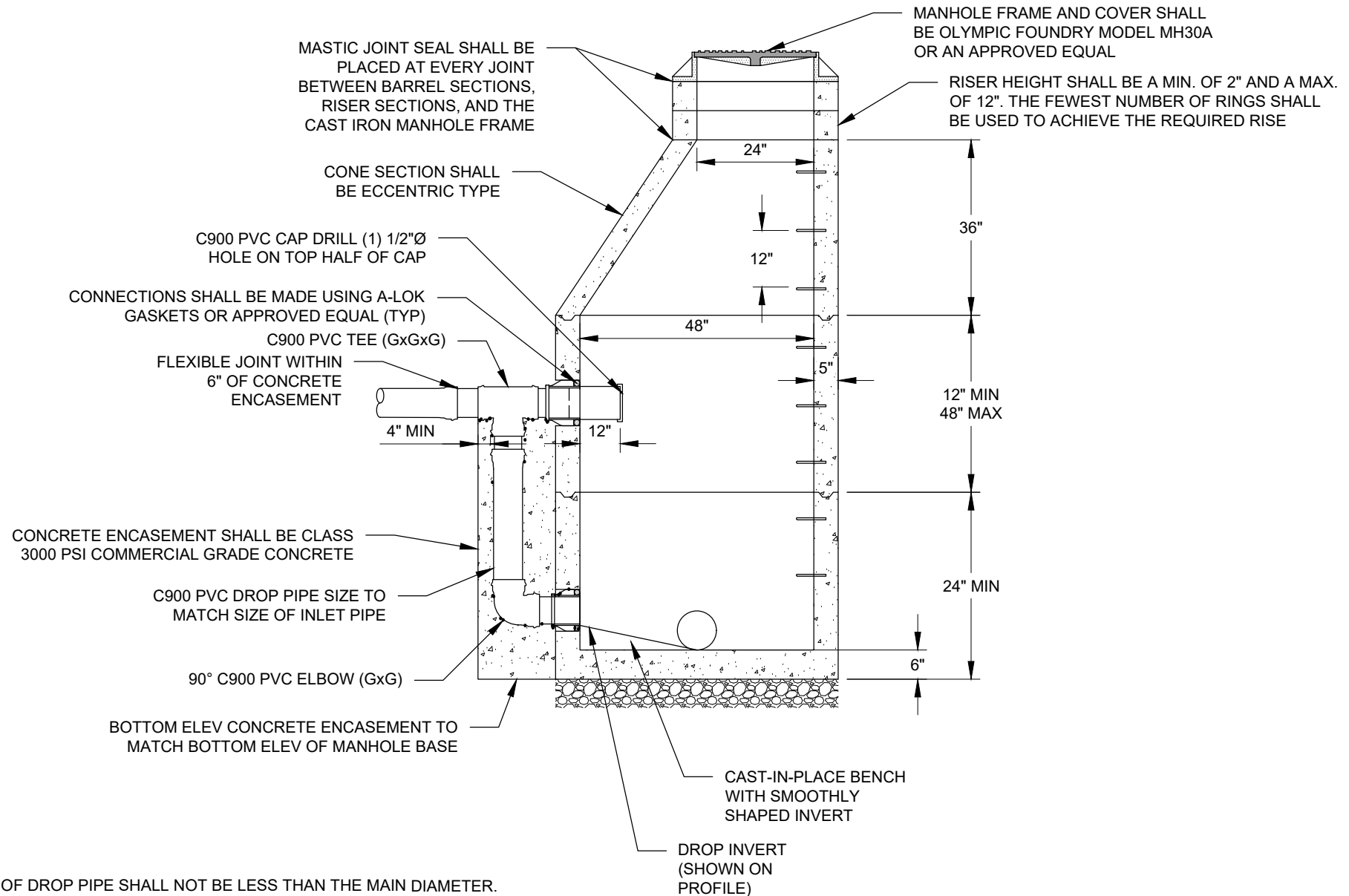
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

SANITARY/STORM SEWER MANHOLE (SHALLOW
W/ LARGE CAST IRON COVER)

STANDARD PLAN
310.03

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. DIAMETER OF DROP PIPE SHALL NOT BE LESS THAN THE MAIN DIAMETER.

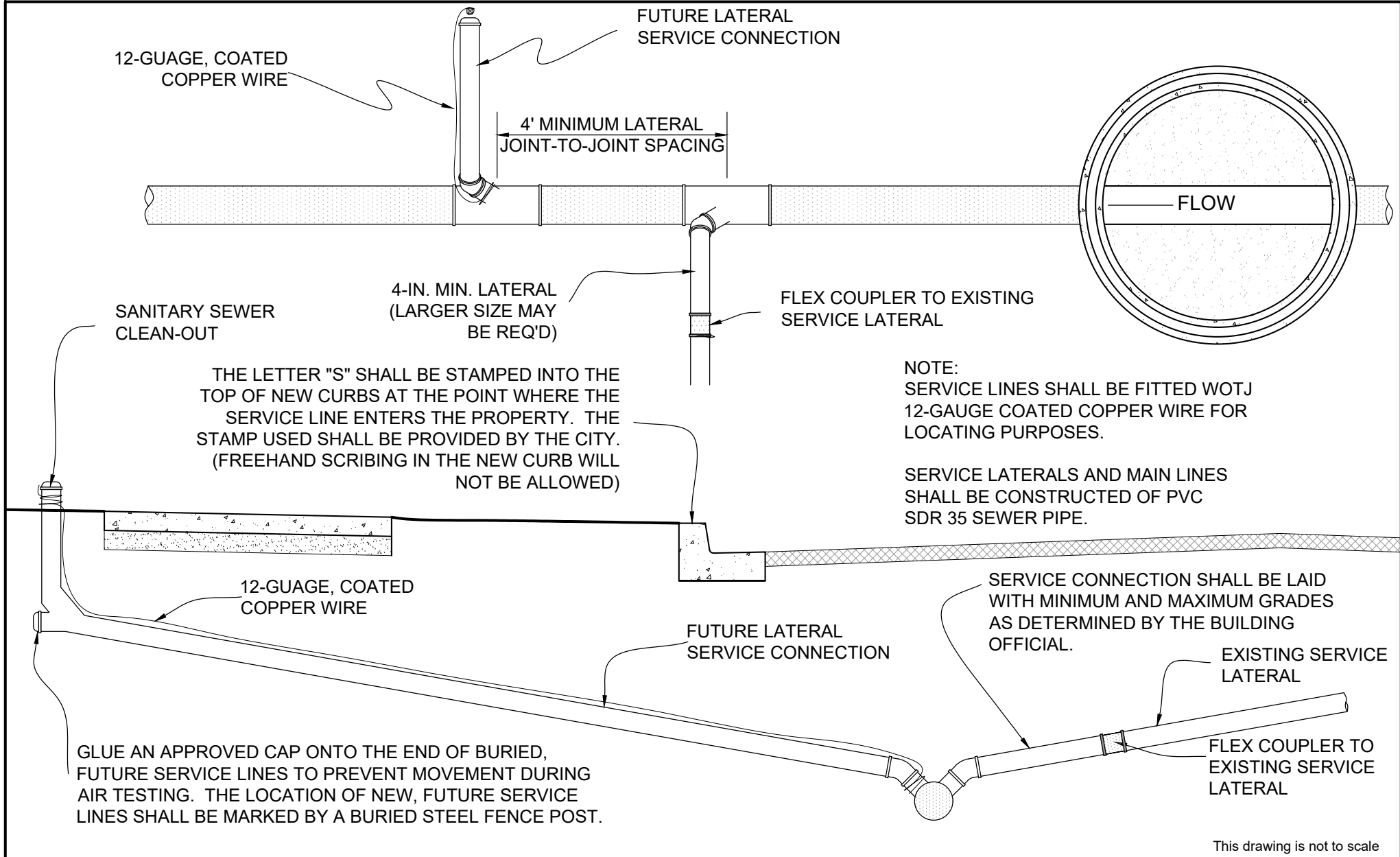
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

DROP MANHOLE

STANDARD PLAN
310.04

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS

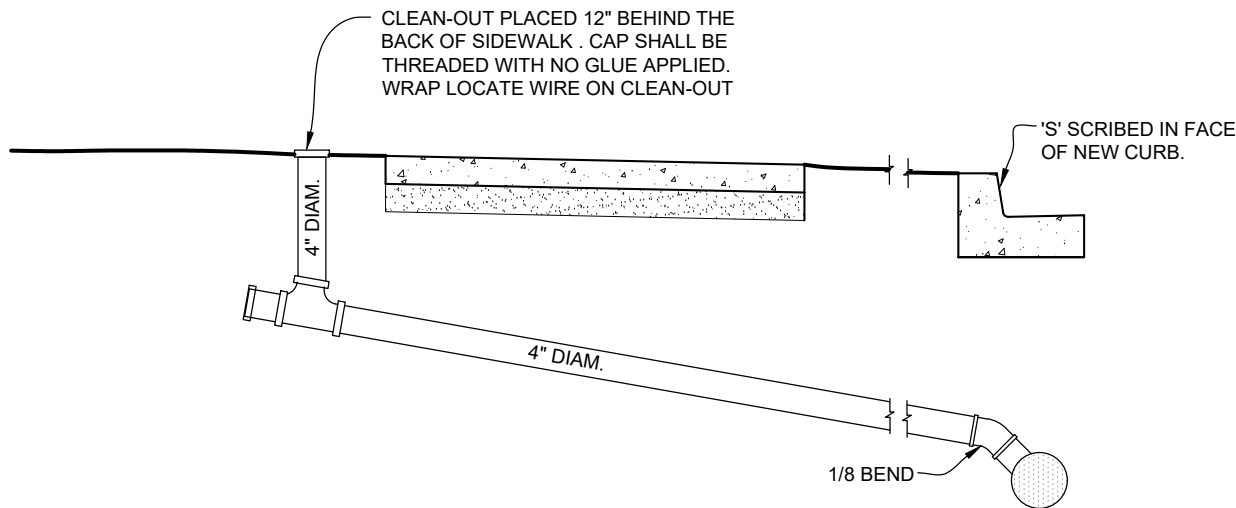
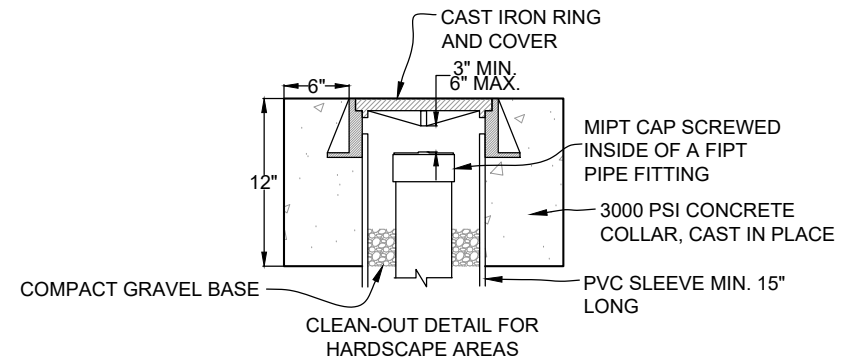
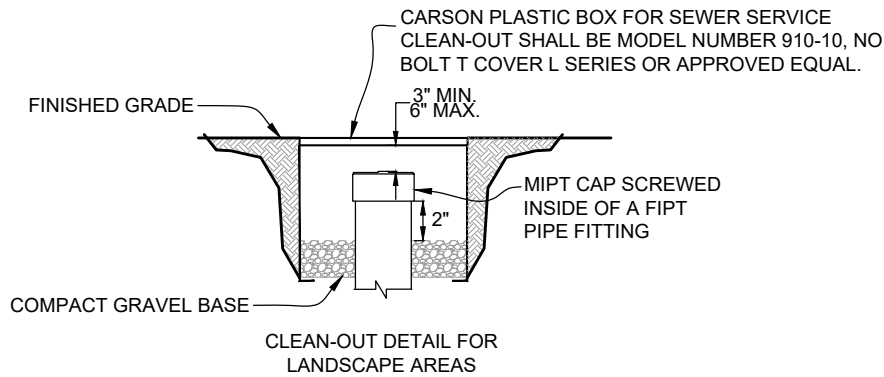


CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

SANITARY SEWER SERVICE
CONNECTION

STANDARD PLAN
310.05

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. LATERALS CONNECTING TO NEW MAINS SHALL BE CONNECTED WITH WYE.
2. LATERALS CONNECTING TO EXISTING MAINS SHALL BE CONNECTED WITH "ROMAC CB", "INSERTA TEE", OR APPROVED EQUAL.
3. MAINS, LATERALS & FITTINGS IN THE ROW SHALL BE PVC 3034 SDR 35.
4. SERVICES AT A DEPTH OF 12 FEET OR GREATER SHALL USE SDR 26 FITTINGS. FITTINGS SHALL BE FIELD INSPECTED BY THE CITY PRIOR TO INSTALLATION.
5. HDPE MAY BE SUBSTITUTED FOR PVC FOR SEWER SERVICE REPAIRS USING PIPE BURSTING OR LONGITUDINAL BORE, UPON APPROVAL BY THE CITY ENGINEER.

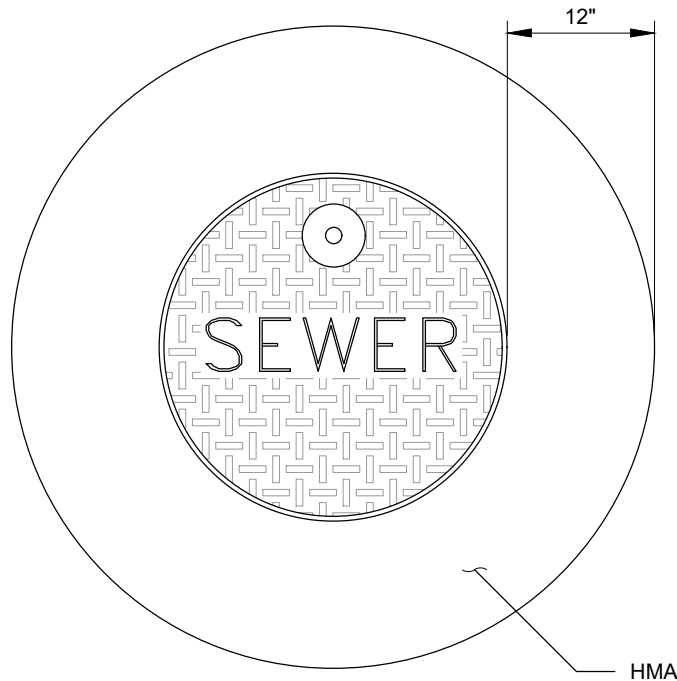
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

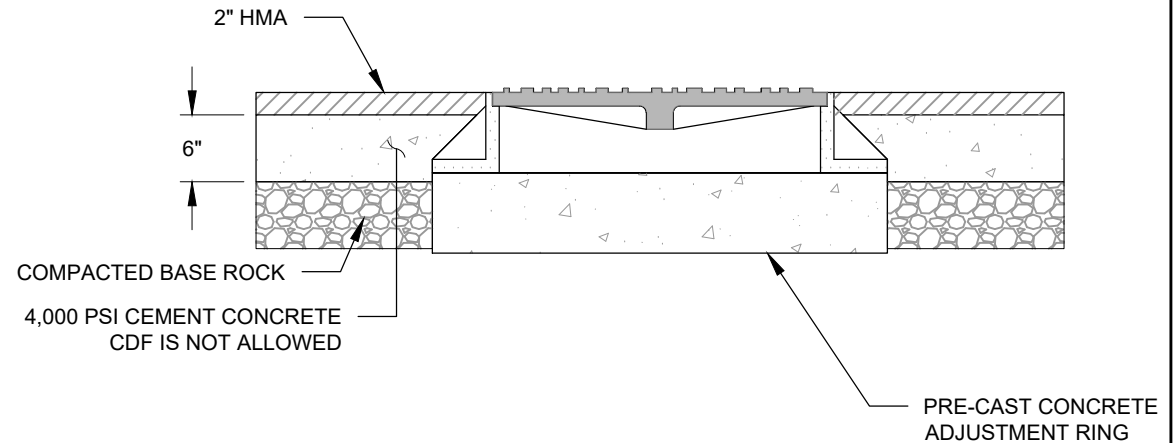
SANITARY SEWER LATERAL
AND CLEANOUT

STANDARD PLAN
310.06

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



PLAN



SECTION

NOTES:

1. HOT MIX ASPHALT PLACED AT THE TIME THE ROAD IS PAVED, SHALL BE USED AROUND MANHOLE RINGS IN PLACE OF CONCRETE ONLY IN CASE OF NEW ROAD CONSTRUCTION OR COMPLETE ROAD RESURFACING. IN THE EVENT HOT MIX ASPHALT CANNOT BE PROPERLY PLACED, A CONCRETE COLLAR SHALL BE PLACED AFTER THE MAIN PAVING IS COMPLETE.
2. CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS. IN UNIMPROVED OR UNPAVED AREAS INSTALL THE CONCRETE COLLAR TO A MIN. 4" DEPTH OR THE DEPTH OF THE ADJUSTMENT RINGS, WHICHEVER IS GREATER.

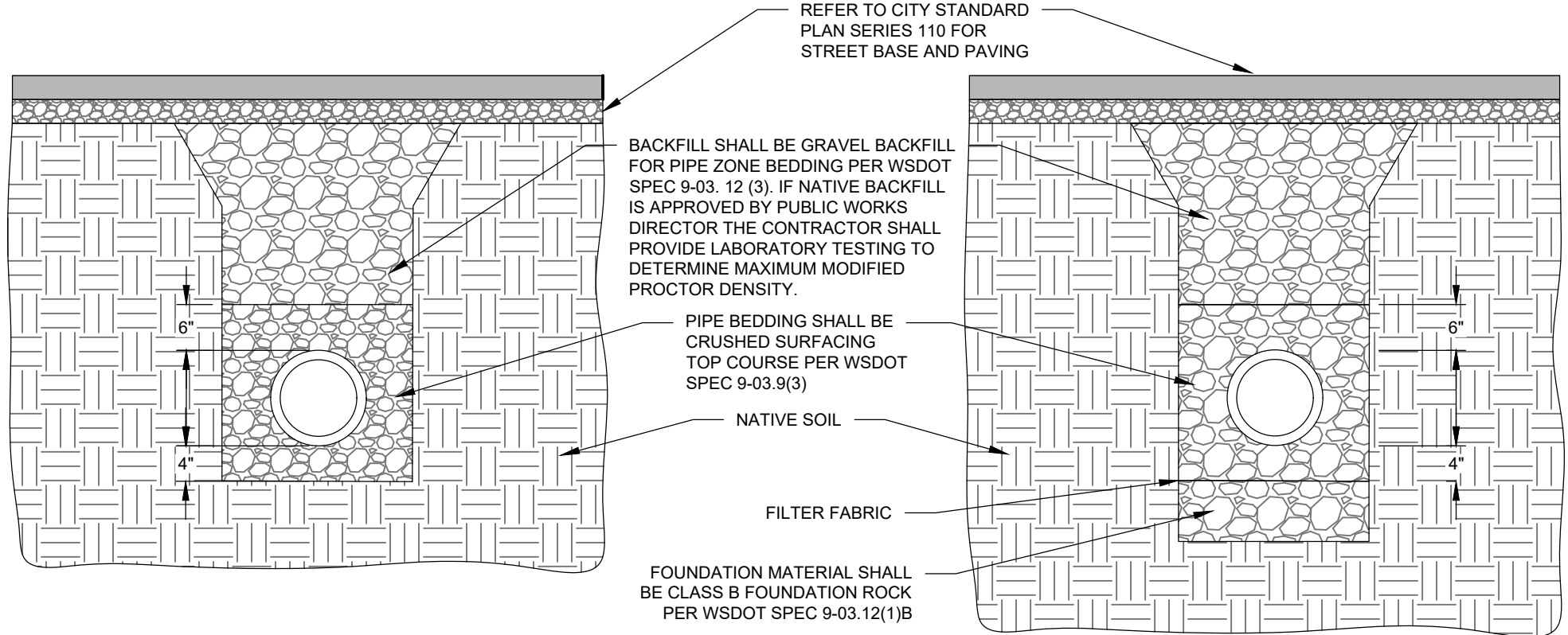
This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 12/12/23

MANHOLE COLLAR PLACEMENT
DETAIL

STANDARD PLAN
310.07

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



SECTION A
(NO GROUNDWATER)

SECTION B
(GROUNDWATER)

COMPACTION TESTING:

1. SUBGRADE SHALL HAVE COMPACTION TESTS PERFORMED EVERY 150 LINEAR FEET OF TRENCH OR A MINIMUM OF 2 PER TRENCH AND 1 TEST PER 150 SQUARE FEET FOR ISOLATED PATCHES.
2. TESTING SHALL BE PERFORMED BY A CERTIFIED INDEPENDENT TESTING LABORATORY OR A CERTIFIED TESTER AS APPROVED BY THE CITY ENGINEER. THE COST OF TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. TESTS SHALL BE COMPLETED AND REPORTS SUBMITTED TO THE CITY ENGINEERING OFFICE WITHIN 48 HOURS OF TESTS.

This drawing is not to scale

CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STANDARD TRENCH DETAILS
(WATER, SANITARY & STORM)

STANDARD PLAN
310.08

STANDARD PLAN 410.00

STORMWATER NOTES

1. THE CONTRACTOR SHALL PREVENT DISCHARGE OF CONSTRUCTION STORMWATER AND SEDIMENTATION FROM LEAVING THE SITE USING BEST MANAGEMENT PRACTICES TO INCLUDE ONE OR MORE OF THE FOLLOWING AS NECESSARY:
 - A. PRESERVE VEGETATION AND MARK CLEARING LIMITS. PROTECT NATURAL VEGETATION AND TREES. USE VEGETATED BUFFERS. BEFORE GRADING, MARK CLEARING LIMITS AND SENSITIVE AREAS FOR PROTECTION.
 - B. ESTABLISH CONSTRUCTION ACCESS REDUCE VEHICLE ACCESS POINTS AND STABILIZE ENTRANCE WITH CRUSHED ROCK OR SIMILAR MATERIAL. MINIMIZE MUD AND DIRT TRACKED ONTO PAVED ROADS. CLEAN ROAD SURFACES ON A REGULAR BASIS. SHOVEL AND SWEEP MUD OFF ROADWAY.
 - C. CONTROL FLOW RATES. PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM FROM THE SITE FROM IMPACTS OF STORMWATER RUNOFF. REDUCING FLOW AND PREVENTING EROSION ARE TWO WAYS TO DO THIS.
 - D. INSTALL SEDIMENT CONTROLS. PASS STORMWATER THROUGH A SEDIMENT POND, SEDIMENT TRAP, FILTER OR OTHER EQUIVALENT MEASURE BEFORE IT LEAVES THE SITE OR ENTERS DRAIN INLETS. CONSTRUCT SEDIMENT PONDS, TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND SILT FENCES AS FIRST STEP IN GRADING.
 - E. STABILIZE SOILS. SOIL STABILIZATION INCLUDES TEMPORARY AND PERMANENT SEEDING, MULCHING, GEOTEXTILES, EROSION CONTROL FABRICS, AND SOD STABILIZATION.
 - F. PROTECT SLOPES. DIVERT RUNOFF AROUND SLOPES AND DISTURBED AREAS WITH PIPE SLOPE DRAINS. DESIGN AND CONSTRUCT CUT AND FILL SLOPES TO MINIMIZE EROSION. METHODS MAY INCLUDE TERRACING AND DIVERSIONS AND REDUCING STEEPNESS.
 - G. PROTECT DRAIN INLETS. PROTECT ALL OPERABLE STORM DRAIN INLETS FROM SEDIMENT. CLEAN AND REMOVE SEDIMENT FROM INLET PROTECTION DEVICES WHEN THEY FILL TO 1/3 OF THEIR CAPACITY.
 - H. STABILIZE CHANNELS AND OUTLETS STABILIZE DRAIN OUTLETS, ADJACENT STREAM BANKS, SLOPES AND CHANNELS WITH ARMORING SUCH AS ROCKS OR GRAVEL.
 - I. CONTROL POLLUTANTS. PREVENT CHEMICALS AND OTHER POLLUTANTS FROM CONTACT WITH STORMWATER. HANDLE AND DISPOSE OF POLLUTANTS PROPERLY. TYPICAL POLLUTANTS INCLUDE: WASTE MATERIALS, CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, OIL, DEMOLITION DEBRIS, AND BATTERIES. PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY ALKALINE SOURCES SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, AND WATER USED TO WASH AND CURE CONCRETE. OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT OTHER THAN CO₂ TO ADJUST PH.
 - J. CONTROL DE-WATERING. CAREFULLY CONTROL DE-WATERING. IF YOU HAVE MUDDY OR CONTAMINATED DE-WATERING WATER, THEN TREAT IT SEPARATELY FROM OTHER STORMWATER RUNOFF.
 - K. MAINTAIN BMP'S. REGULARLY INSPECT, MAINTAIN AND REPAIR ALL BMPS. INSPECT EROSION AND SEDIMENT CONTROL BMPS AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY DISCHARGE FROM THE SITE. REMOVE ALL TEMPORARY EROSION AND SEDIMENT BMPS WITHIN 30 DAYS OF FINAL SITE STABILIZATION. REMOVE OR STABILIZE ON-SITE TRAPPED SEDIMENT.

2. THE ENGINEER (OR HIS AGENT) CERTIFYING STORMWATER FACILITIES SHALL BE PROVIDED ACCESS TO STORMWATER FACILITIES FOR OBSERVATION AT ANY TIME DURING CONSTRUCTION.
3. INFILTRATION FACILITIES SHALL BE CONSTRUCTED WITHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON INFILTRATION SURFACE. ANY COMPACTION AFTER INFILTRATION FACILITIES ARE FORMED SHALL REQUIRE INFILTRATION SURFACE TO BE SCARIFIED TO A DEPTH OF 12" TO ALLEVIATE COMPACTION OF THE INFILTRATION SURFACE.
4. THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION STORMWATER GENERAL PERMIT (CGP) IN ACCORDANCE WITH THE LATEST REGULATION REQUIREMENT PER WASHINGTON STATE DEPARTMENT OF ECOLOGY. THIS INCLUDES USING BEST MANAGEMENT PRACTICES TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE BMP'S ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
5. ALL NEW DRYWELLS AND/OR INFILTRATION TRENCHES SHALL BE REGISTERED USING CITY-PROVIDED IDENTIFICATION NUMBER/LABEL WITH THE UNDERGROUND INJECTION CONTROL PROGRAM AT DEPARTMENT OF ECOLOGY PRIOR TO USE (UIC PROGRAM, DEPARTMENT OF ECOLOGY, P.O. BOX 47600, OLYMPIA, WA 98504-7600.
6. THE PUBLIC WORKS DIRECTOR MAY REQUIRE THE APPLICATION OF AN AIR PRESSURE TEST ON ANY STORM SEWER PIPES PER STANDARD SPECIFICATIONS (7-04.3(1) E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED TO OBSERVE TV INSPECTION (PERFORMED BY CONTRACTOR OR THEIR ASSIGNEE) OF ALL STORM SEWER LINES. ANY WORK FAILING AN AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS.
7. ALL TV INSPECTIONS SHALL INCLUDE A BALL OR EQUIVALENT DEVICE ATTACHED TO THE CAMERA TO SHOW ANY "BELLY" IN THE LINE WHICH MAY EXCEED 3/4-INCH IN DEPTH. INSPECTION SHALL BE RECORDED ON DVD AND VIEWABLE THRU A WINDOWS MEDIA PLAYER. VIDEO MUST BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR APPROVAL.
8. ALL MANHOLES AND CURB INLETS SHALL BE PRE-CAST CONCRETE UNITS UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
9. MANHOLE PIPE CONNECTORS SHALL BE CAPABLE OF A 10⁰ DEFLECTION IN ANY ONE DIRECTION AND SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER. ALL STORM SEWER MANHOLES WITH PVC PIPE CONNECTIONS) SHALL USE THE A-LOK PIPE CONNECTOR, MANUFACTURED BY A-LOK PRODUCTS OR PSX, MANUFACTURED BY PRESS-SEAL GASKETS CORP. OR APPROVED EQUAL. ALL OTHER CONNECTION SYSTEMS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE. STORM SEWER MANHOLES WITH HDPE PIPE CONNECTIONS MAY BE GROUTED (A-LOK NOT REQUIRED).
10. ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS, AT PIPE CONNECTIONS, AND JOINTS, SHALL BE FILLED OR REPAIRED IN THE FIELD.

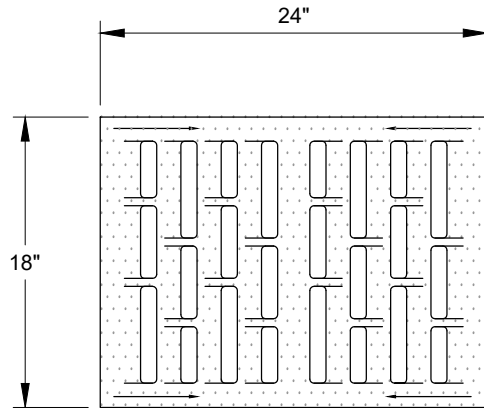
11. MANHOLES SHALL BE SET A MINIMUM OF 8 INCHES AND NOT MORE THAN 12 INCHES BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH RISER RINGS AS REQUIRED.
12. MANHOLE CONE SECTION SHALL BE ECCENTRIC.
13. MASTIC JOINT SEAL SHALL BE PLACED AT EVERY JOINT BETWEEN BARREL SECTIONS, RISER SECTIONS, AND THE CAST IRON TOP.
14. MANHOLE RING & COVER SHALL BE INLAND FOUNDRY COMPANY INC. #817 WITH A SOLID COVER LABELED "STORM" OR APPROVED EQUAL.
15. RISER RINGS VARY IN HEIGHT FROM 1" TO 6". ANY NEED FOR ADJUSTMENT OVER 12" AT THE TOP SHOULD BE SATISFIED BY USING A 12" BARREL SECTION UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR. A MINIMUM 2" OF RISERS SHALL BE USED ON ALL MANHOLES. USE THE LEAST NUMBER OF RISER RINGS TO ACHIEVE THE REQUIRED RISE. RISER RINGS SHALL BE PRE-CAST 3000 PSI CONCRETE OR HDPE (HIGH DENSITY POLYETHYLENE) MANHOLE ADJUSTING RINGS. ALL RISERS SHALL HAVE BUTYL OR MASTIC SEALER APPLIED TO BOTH THE TOP AND BOTTOM SURFACES. RISER STACKS SHALL BE WATER TIGHT.
16. MANHOLE STEPS SHALL BE LANE BRAND, POLYPROPYLENE MANHOLE STEPS MODEL NO. P-13938E OR AN APPROVED EQUAL.
17. ALL STORMWATER SEWER PIPE SHALL BE FULLY BEDDED WITH A MINIMUM OF 4-IN. UNDER THE PIPE AND A MINIMUM OF 6-IN. OVER ANY PIPE. BEDDING MATERIALS SHALL BE CRUSHED ROCK AS PER THE STANDARD SPECIFICATION. ALL OTHER BEDDING MATERIALS MUST BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO USE.
18. PRE-CAST MANHOLE BASES SHALL BE SET LEVEL ON A MINIMUM OF 6-IN. OF WELL-COMPACTED CRUSHED AGGREGATE. STORMWATER SEWER PIPE AND MANHOLES SUBJECTED TO GROUNDWATER SHALL BE PLACED ON 4-IN. OF CRUSHED ROCK BEDDING OVER 12" OF CLASS B FOUNDATION ROCK SEPARATED BY FILTER FABRIC AS PER STANDARD SPECIFICATION 9-03.17.
19. THE BEDDING UNDER STORMWATER SEWER PIPE AND MANHOLES SHALL BE COMPACTED PRIOR TO PIPE AND MANHOLE PLACEMENT TO PROVIDE UNIFORM SUPPORT ALONG THE ENTIRE LENGTH OF THE PIPE AND UNDER MANHOLES. ONLY PIPE BEDDING MATERIAL SHALL BE IN CONTACT WITH STORMWATER SEWER PIPE OR MANHOLES. ANY DITCH RUN GRAVEL, ASPHALT OR CONCRETE CHUNKS OR SIMILAR MATERIALS SHALL BE REMOVED.
20. ELEVATIONS AND DISTANCES BETWEEN ELEVATIONS SHALL BE PROVIDED TO THE CITY BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER AFTER BEDDING PIPE ON COMPACTED BEDDING, PRIOR TO BACKFILL, AT A MINIMUM OF EVERY 100' AND AT MANHOLE TERMINATIONS. STORM PIPE GRADE SHALL CORRESPOND TO APPROVED PLANS AND IN NO CASE SHALL BE LESS THAN 0.4% WITHOUT BELLIES OR RISES.
21. THE USE OF NATIVE BACKFILL MAY BE USED IF APPROVED BY THE PUBLIC WORKS DIRECTOR. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL

REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE PUBLIC WORKS DIRECTOR, GRAVEL BACKFILL PER THE STANDARD SPECIFICATIONS 9-03.12(3) OR OTHER GRANULAR MATERIAL APPROVED BY THE PUBLIC WORKS DIRECTOR SHALL BE USED.

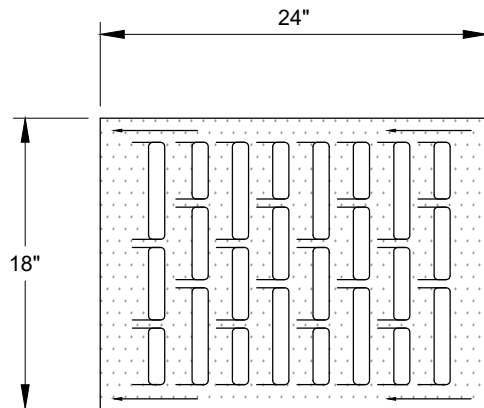
22. MANHOLE BARREL SECTIONS AND RISER RINGS SHALL BE SEALED WATERTIGHT WITH MASTIC. IN ADDITION, ALL MANHOLES SUBJECTED TO GROUNDWATER SHALL BE SEALED WITH CITY-APPROVED SEALANT ON THE EXTERIOR FROM THE BASE TO 3' ABOVE THE SEASONAL HIGH GROUNDWATER LEVEL AND SHALL BE VACUUM TESTED PER ASTM C-1244 WHEN SEASONAL HIGH GROUNDWATER IS OVER 3' HIGH FROM THE BASE.
23. MINIMUM DIAMETER OF STORMWATER PIPES SHALL BE 10". LARGER SIZES MAY BE REQUIRED.
24. PRE-CAST CURB INLET BOX (CATCH BASIN) SHALL BE NO LESS THAN 48" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE INSIDE BASE AND BASE ROCK. CURB INLET BOXES SHALL BE PRE-CAST CUSTOM UNITS CONSTRUCTED WITH A REINFORCEMENT CAGE AND PUNCH OUT SECTIONS NO LESS THAN 2" THICK ON ALL FOUR VERTICAL SIDES AS INDICATED IN STANDARD PLAN 410.02. INSTALLATION SHALL BE PER STANDARD PLAN 410.05.
25. CURB INLET BOXES (CATCHBASINS) WITH PVC LINE CONNECTIONS SHALL USE SAND COLLARS WITH GROUT SEAL ("A-LOK" ALSO ACCEPTABLE). SIMILAR TRANSITIONS MAY BE USED WITH PUBLIC WORKS DIRECTOR APPROVAL. HDPE PIPE CONNECTIONS TO CURB INLET BOXES MAY BE GROUTED (SAND COLLARS NOT REQUIRED).
26. THE CAST IRON CURB INLET GRATE SHALL BE UNI-DIRECTIONAL OR BI-DIRECTIONAL GRATES ONLY. INLAND FOUNDRY COMPANY #571-3 OR #571-5 OR AN APPROVED EQUAL.
27. THE DIRECTIONAL CONFIGURATION OF THE CURB INLET GRATE SHALL BE DETERMINED AT THE TIME OF DESIGN. CLOSE ATTENTION SHOULD BE PAID TO THIS DETAIL WHEN ORDERING THE GRATE FROM THE MANUFACTURER. REFER TO STANDARD PLAN 410.01.
28. CURB INLET GRATES SHALL NOT BE PLACED WITHIN ADA ACCESS ROUTES AND SHALL NOT UTILIZE A HOOD WHEN LOCATED ADJACENT TO A CURB RAMP.
29. BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE SHALL BE IN PLACE AND UTILIZED DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMPS IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. A STOP WORK NOTICE MAY BE ISSUED FOR NON-COMPLIANCE WITH THIS REQUIREMENT UNTIL THE ISSUE IS RESOLVED.

THE PUBLIC WORKS DIRECTOR OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE.

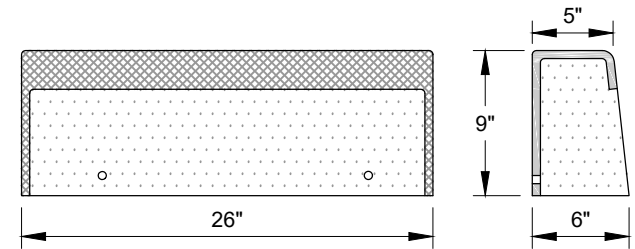
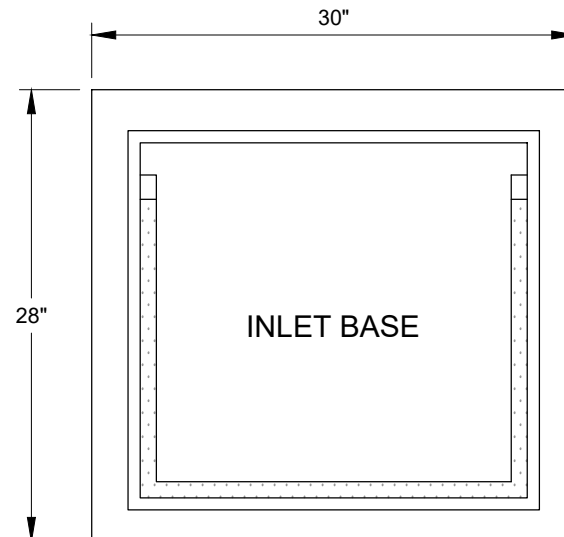
CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



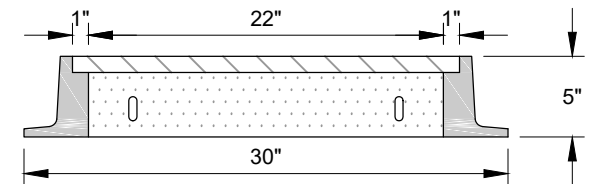
BI-DIRECTIONAL FLOW



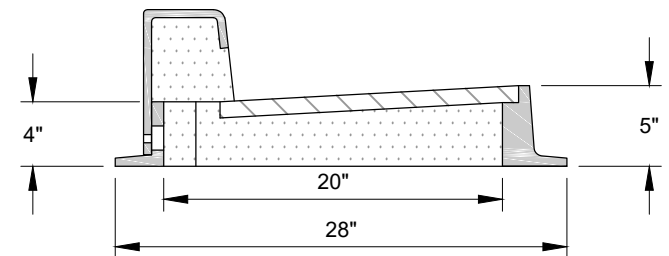
SINGLE DIRECTIONAL FLOW



INLET HOOD



INLET BASE



INLET BASE & HOOD

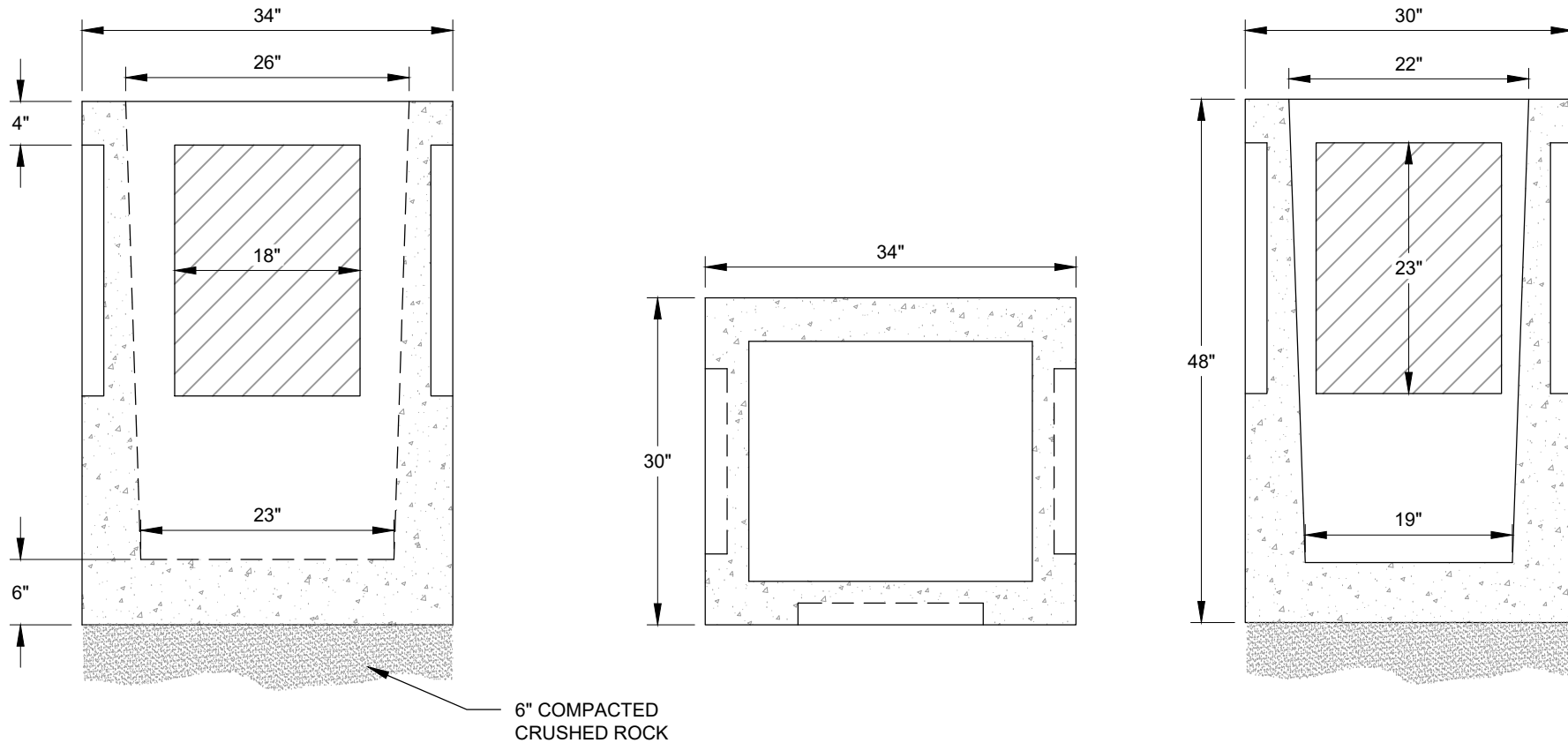
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JUNE 2007

CURB INLET FRAME, GRATE &
HOOD DETAIL

STANDARD PLAN
410.01

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. BREAK-IN HOLES SHALL BE MADE USING A ROTO HAMMER TO REDUCE DAMAGE TO THE BOX.
2. SAND COLLARS SHALL BE ATTACHED TO PVC PIPE AT THE POINT OF ENTRY AND SEALED INSIDE AND OUTSIDE WITH QUICKSET NON-SHRINK GROUT. HDPE PIPE MAY BE GROUTED.
3. A MIN. OF 2-FT OF CRUSHED SURFACING TOP COARSE PER WSDOT SPEC 9-03.9(3) SHALL BE BACKFILLED AROUND CATCH BASIN.

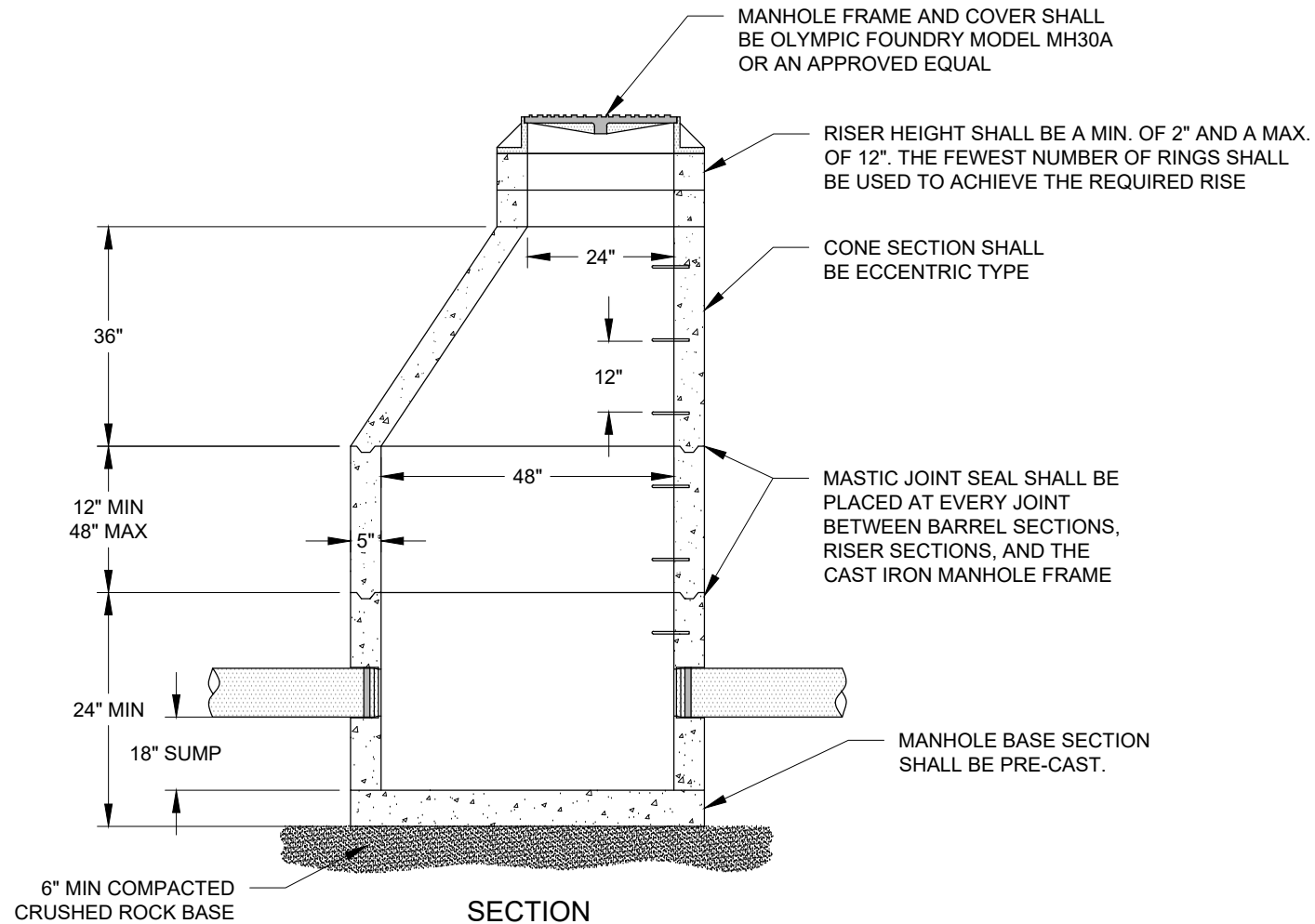
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JANUARY 2015

PRECAST CURB INLET BOX DETAIL

STANDARD PLAN
410.02

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTES:

1. SAND COLLARS SHALL BE USED ONLY FOR RETRO FIT BREAKINS ON MANHOLES.

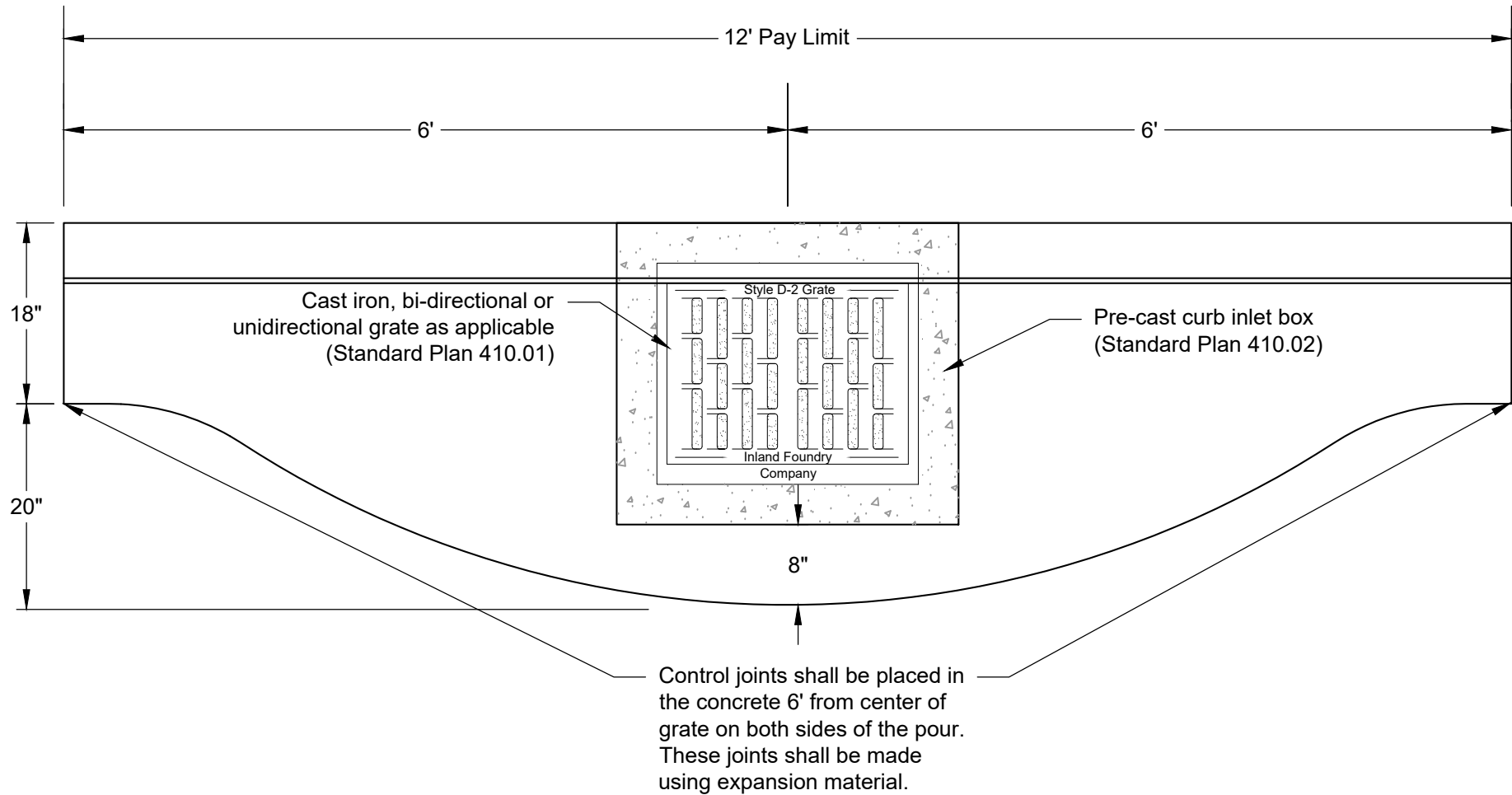
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CITY ENGINEER: ALEX FAZZARI, PE
LAST REVISION: 04/10/23

STORM SEWER
MANHOLE PROFILE

STANDARD PLAN
410.04

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



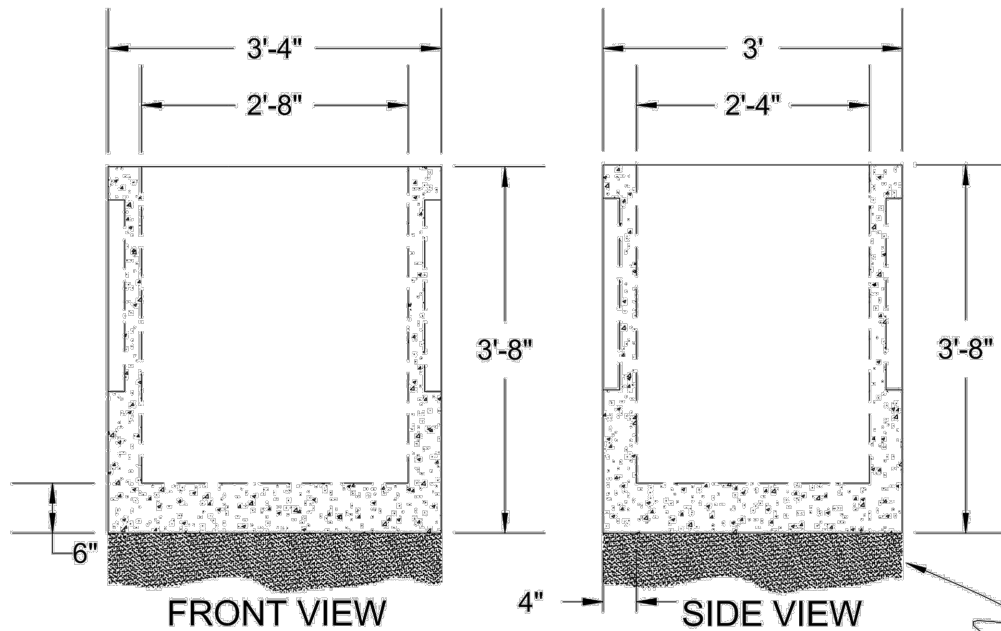
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CITY ENGINEER: Robert Gordon, P.E.
LAST REVISION: JUNE 2007

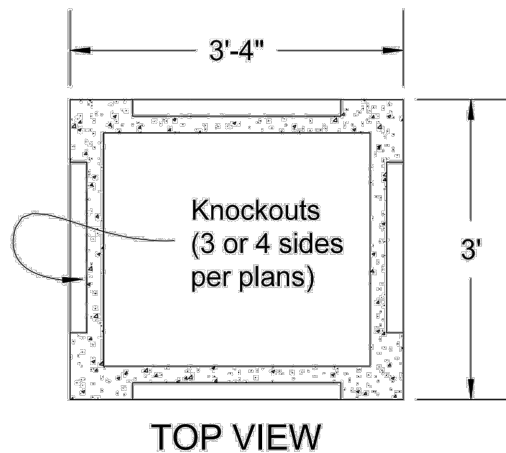
CURB INLET PLACEMENT DETAIL

STANDARD PLAN
410.05

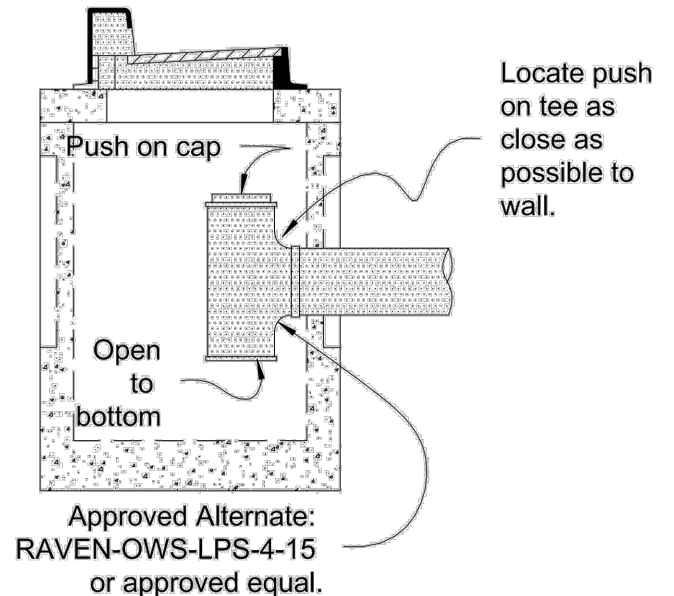
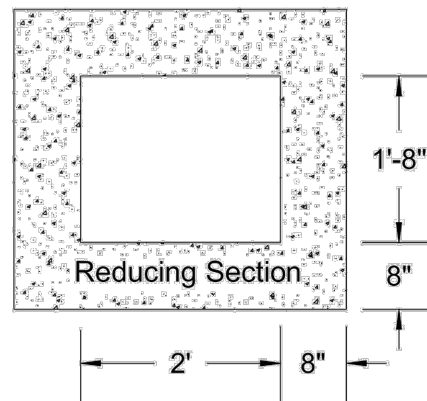
CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



NOTE: SAND COLLARS SHALL BE ATTACHED TO PVC PIPE AT THE POINT OF ENTRY TO ENSURE PROPER ADHESION TO THE GROUT MATERIAL. HDPE MAY BE GROUTED. BREAK-IN HOLES SHALL BE MADE USING A ROTO HAMMER TO REDUCE DAMAGE TO THE BOX.

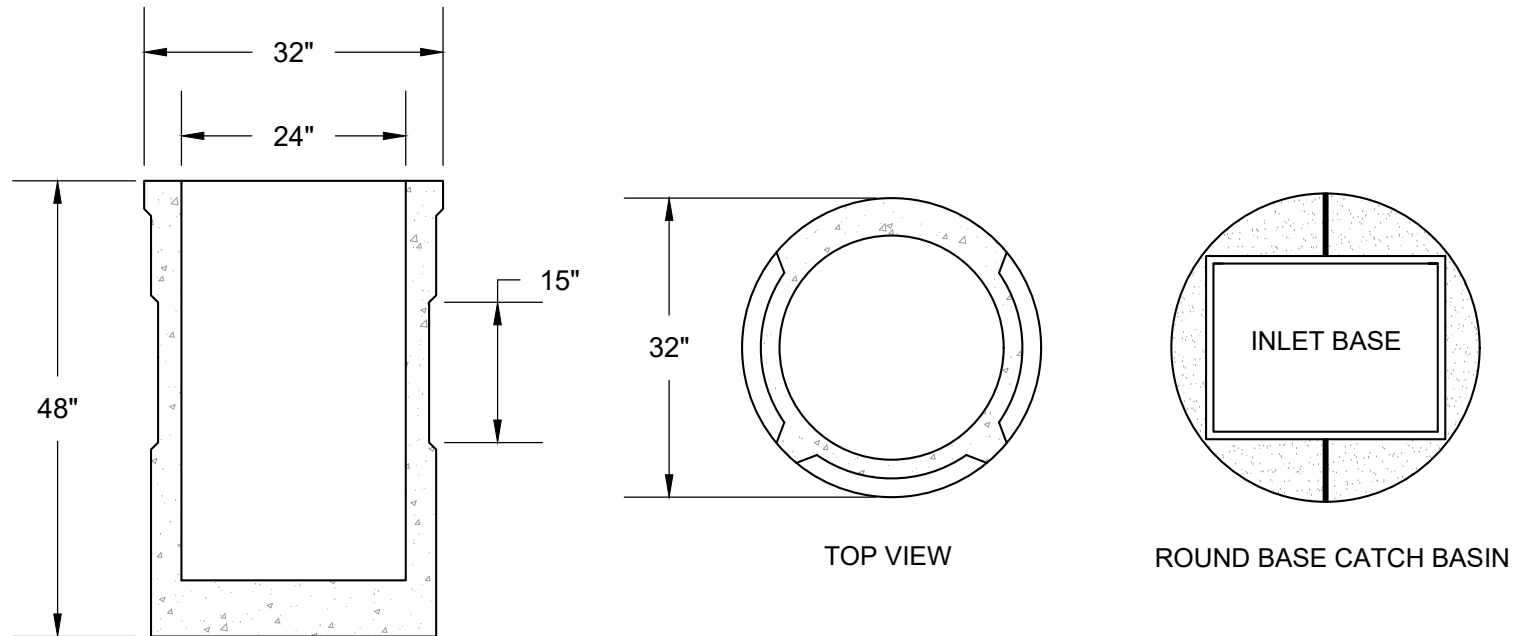


6" minimum compacted crushed rock shall be placed under the Curb Inlet base.



This drawing is not to scale

CITY OF COLLEGE PLACE - STANDARD SPECIFICATIONS



CONSTRUCTION NOTES

1. BREAK-IN HOLES SHALL BE MADE USING A ROTO HAMMER TO REDUCE DAMAGE TO THE BOX. SAND COLLARS SHALL BE ATTACHED TO PVC PIPE AT THE POINT OF ENTRY AND SEALED INSIDE AND OUTSIDE WITH QUICKSET NON-SHRINK GROUT. HDPE PIPE MAY BE GROUTED.
2. IN THE EVENT ALIGNMENT OF INLET BOX WILL RESULT IN ENTRY AT LOCATIONS OTHER THAN THE PRE-CAST KNOCK OUT SECTIONS, A ROUND TYPE PRE-CAST CURB INLET BOX MAY BE SUBSTITUTED WITH PRIOR APPROVAL OF THE CITY ENGINEER.
3. A MINIMUM OF 2-FT OF CRUSHED SURFACE TOP COARSE PER WSDOT SPEC 9-03.9(3) SHALL BE BACKFILLED AROUND CATCH BASIN.

This drawing is not to scale

City of College Place, Washington
RESOLUTION NO. 24-047

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF COLLEGE PLACE, WASHINGTON ADOPTING THE JUNE 2024 UPDATE TO THE CITY OF COLLEGE PLACE STANDARD SPECIFICATIONS AND DRAWINGS.

Whereas, the City of College Place is a non-charter code city governed by the rules and regulations of RCW 35A; and

Whereas, the City Council desires adoption of standards and specifications for uniform and regular development within the City of College Place in support of Council policy; and

Whereas, the standard specifications relate to public works construction in the City to include all public street, drainage, water, sewer and appurtenant facilities and to those areas and facilities for which the College Place Municipal Code expressly requires compliance;

Whereas, College Place Municipal Code 16.24.020 requires that design standards be promulgated by the city engineer and adopted by the council; and

Whereas, from time to time, the city engineer will propose updates and clarifications to city standards; and

Now therefore, it is hereby resolved by the City Council of the City of College Place, Washington, as follows:

1. The update to the City of College Place Standards and Specifications as attached in Appendix A as presented to the June 11, 2024 City Council meeting is hereby fully adopted.

Clerical Corrections. The City Clerk is authorized to make necessary clerical corrections to this resolution including, but not limited to, the correction of scrivener's/clerical errors, references, resolution numbering, section/subsection numbers and any references thereto.

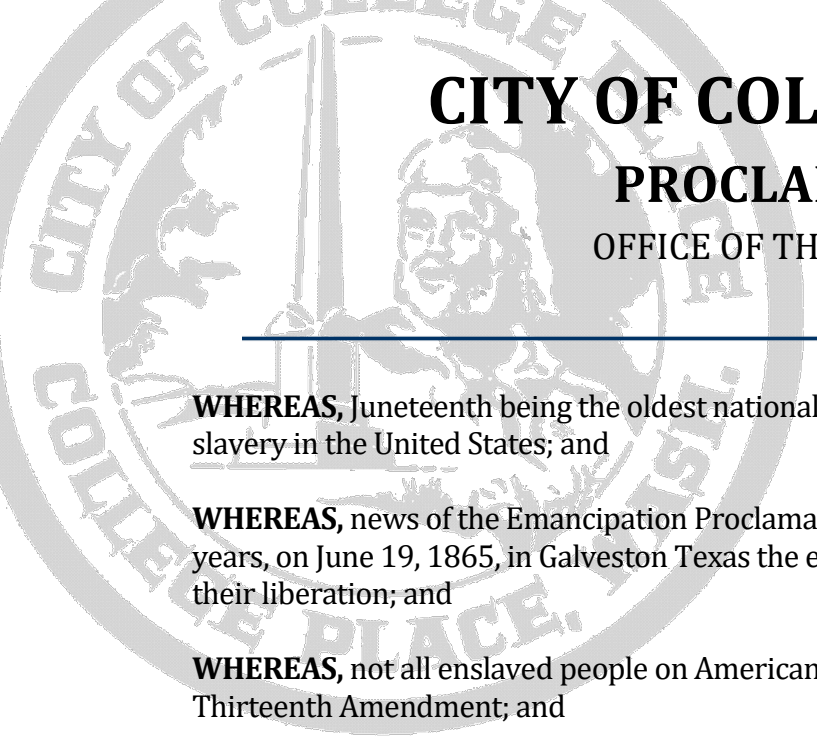
Effective Date. This resolution shall take effect and be in full force upon its passage as provided by law.

PASSED by the City Council of the City of College Place, Washington, this 11th day of June, 2024.

Attest:

Norma L. Hernández, Mayor

Sherri St Clair, City Clerk



CITY OF COLLEGE PLACE

PROCLAMATION

OFFICE OF THE MAYOR

WHEREAS, Juneteenth being the oldest nationally celebrated commemoration of the ending of slavery in the United States; and

WHEREAS, news of the Emancipation Proclamation, that was delayed some two and one half years, on June 19, 1865, in Galveston Texas the enslaved African Americans were informed of their liberation; and

WHEREAS, not all enslaved people on American soil were liberated until the enactment of the Thirteenth Amendment; and

WHEREAS, June 19th has become known as Juneteenth and is celebrated by many African Americans as their independence day, commemorating the last freed American slaves; and

WHEREAS, we acknowledge African American freedom, contributions, and achievements within our community, past and present; and

WHEREAS, while acknowledging the struggles and hopes of African Americans, we commit to working together towards equity for all by expanding economic, educational, cultural, homeownership and career opportunities for all members of our community

NOW THEREFORE,

I, Norma L. Hernández, Mayor of the City of College Place, Washington, do hereby proclaim June 19, 2024, to be

JUNETEENTH

in the city of College Place. I encourage everyone to learn more about the history, culture and current state of Black and African Americans by reading, watching, listening, and engaging with others.

Given under my hand and seal as Mayor of the City of College Place, Washington, this 11th day of June, 2024.

Norma L. Hernández, Mayor



BOARD AND COMMISSION APPLICATION/INTEREST FORM
CITY OF COLLEGE PLACE

625 S COLLEGE AVENUE
COLLEGE PLACE WA 99324

DATE 5/30/24 BOARD OR COMMISSION Planning Commission

NAME: ☐ Ms. ☒ Mrs. ☐ Mr. ☐ Other she/her

EMPLOYER: Valley Transit

POSITION: General Manager

Angie Peters

YEARS THERE: 4.8

EMAIL angie@valleytransit.com

PHONE—CELL 5416637144

PHONE—WORK 5095259140

PHONE—HOME 5416637144

PHYSICAL ADDRESS: 407 SE 5th Street

CITY College Place ZIP 99324 HOW LONG? 4 YRS 5 MO

☒ SAME AS ABOVE

MAILING ADDRESS: _____

IF NOT APPOINTED AT THIS TIME, MAY WE KEEP YOUR APPLICATION ON FILE? ☒ YES ☐ NO

Briefly describe your background and experience:

As a Public Transit General Manager with extensive experience in transit and operations management, my unwavering commitment is to enhance accessibility and sustainable mobility in public transportation. I have dedicated my career to ensuring transit systems are efficient, inclusive, and customer-centric. By fostering collaboration and building high-performing teams, I have focused on improving the transit experience for all riders, especially those with diverse needs. My work on the Blue Zones Project Built Environment Committee has reinforced my commitment to bridging accessibility gaps and promoting equitable transportation solutions.

Sustainability and inclusivity are key pillars of my approach. I advocate for eco-friendly practices such as adopting electric buses and implementing environmentally conscious operations to minimize environmental impact. By partnering with community organizations and stakeholders, I prioritize accessible infrastructure and services. I firmly believe that public transit should empower individuals to access essential services, education, employment, and social activities, driving positive change, economic vitality, and a better quality of life for all.

List any special training, skills, or experiences you may have that are pertinent to the Board/Commission to which you are applying:

I have varying levels of training and experience with the following:

- regional planning
- transportation planning
- policy development and administration
- community engagement
- project management
- environmental impact assessment
- cultural competencies
- technical writing

Discuss your motivation for serving on the Board/Commission to which you are applying:

I am motivated to serve my community where the building blocks of our infrastructure planning are hewn, and I believe my industry experience is well placed for understanding and providing feedback on planning commission work.

State your goals for the City:

My primary goal is to see my city thrive. Specifically, I aim to enhance accessibility, focusing on improving walking and rolling opportunities through better sidewalks, curb cuts, and management of obstructions. Additionally, I am committed to advancing green initiatives, such as expanding solar array projects and innovating with greener approaches like generating RNG from wastewater facilities and installing solar panels on water towers. Maintaining momentum in these areas will drive sustainable growth and improve the quality of life for all residents.

RETURN APPLICATION/INTEREST FORM TO
CITY CLERK, CITY OF COLLEGE PLACE
625 S COLLEGE AVE, COLLEGE PLACE WA 99324
OR - SAVE WITH YOUR NAME IN FILE AND EMAIL TO: CLERK@CPWA.US

NEW SECTION:

9.04.070 – Mandatory minimum jail and jail alternative sentences for repeat criminal offenders.

- A. This section shall apply to criminal matters filed by the City.
- B. “Prior criminal disposition” means a conviction, stipulated order of continuance or similar agreement, deferred prosecution, and/or deferred sentence.
- C. “Public disorder crime” means a misdemeanor or gross misdemeanor violation of:
 - 1. Chapter 9A.48 RCW (Malicious Mischief)
 - 2. Chapter 9A.52 RCW (Trespass)
 - 3. Chapter 9A.56 RCW (Theft)
 - 4. Chapter 9A.84 RCW (Public Disturbance)
 - 5. RCW 9A.88.010 (Indecent exposure)
 - 6. Chapter 9A.28 RCW (Attempt, Solicitation, and Conspiracy) to commit crime listed in this subsection above, 1-6
 - 7. Chapter 9A.28 RCW (Attempt, Solicitation, and Conspiracy) to commit a class C violation of Chapters 9A.52, 9A.56, 9A.84, and 9A.88.
- D. Upon a conviction for a public disorder crime charged on or after the effective date of the ordinance codified in this section, the court with jurisdiction to adjudicate the City’s criminal cases (Court), shall impose a mandatory minimum sentence of no less than 30 days in jail if, within three years prior to the conviction, the defendant had, in the state of Washington, one or more prior criminal disposition(s) for a public disorder crime.
- E. If a defendant is convicted of two or more public disorder crimes on the same date and the offenses occurred on separate dates, the defendant shall be subject to this section as if the defendant had been convicted of the offense which occurred first prior to being convicted of the offense which occurred last and the Court shall impose a mandatory minimum sentence pursuant to subsection D for each public disorder crime conviction.
- F. Post-Sentencing Petition.
 - 1. A defendant sentenced to a mandatory minimum and serving the sentence may petition the Court for relief from the sentence if he, she, or they meet the following criteria:
 - a. A qualified professional has determined the defendant would benefit from inpatient substance use disorder treatment;

- b. The defendant has a secured Court approved inpatient treatment for a specific treatment facility and date (bed date);
 - c. The defendant executes a waiver to release all treatment information to the Court and the City; and
 - d. The Court finds treatment is an appropriate alternative to jail.
 - 2. If the Court grants the petition, a judge may enter an order of release with appropriate conditions, to include treatment and provision of treatment information to the Court and City.
 - 3. If the defendant provides proof of successful completion of treatment to the satisfaction of the Court, the Court may suspend any remaining jail time.
 - 4. If the defendant fails to successfully enter into, maintain and complete treatment to the satisfaction of the Court, the Court shall require the defendant to serve any remaining mandatory jail sentence.
- G. A defendant who otherwise would be subject to a mandatory minimum sentence under this section and who diverts through a therapeutic or community court program, is subject to a mandatory sentence under this section if he, she, or they opt out of or is terminated from the program due to non-compliance or fails to complete the program. The Court, when sentencing, shall calculate the prior three year period from the date the case was accepted into the therapeutic or community court program so long as the defendant was notified at the time of diversion of the mandatory minimum sentence applicable should the defendant's case be terminated from the program.

City of College Place, Washington
ORDINANCE NO. 24-006

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF COLLEGE PLACE, WASHINGTON AMENDING COLLEGE PLACE MUNICIPAL CODE CHAPTER 9.04 – CRIMINAL CODE, TO ESTABLISH MANDATORY MINIMUM SENTENCES FOR REPEAT CRIMINAL OFFENDERS.

Whereas, the City of College Place (City) is a non-charter code city governed by the rules and regulations of Chapter 35A Revised Code of Washington (RCW); and

Whereas, RCW 35A.11.020 allows the city to adopt and enforce ordinances pertaining to local affairs; and

Whereas, Article XI, § 11 of the Washington state Constitution allows the city to make and enforce within its limits all such local police, sanitary and other regulations as are not in conflict with general laws; and

Now therefore, the City Council of the City of College Place does hereby Ordain as follows:

Section 1: Ordinance No. 24-006 adding a new section to Chapter 9.04 of the College Place Municipal Code to establish mandatory minimum sentences for repeat criminal offenders as shown in Exhibit A, which is fully incorporated herein.

Section 2: Clerical Corrections. The City Clerk and the codifiers of this ordinance are authorized to make necessary clerical corrections to this ordinance including, but not limited to, the correction of scrivener's/clerical errors, references, ordinance numbering, section/subsection numbers and any references thereto.

Section 3: Severability. If any section, subsection, paragraph, sentence, clause, or phrase of this legislation or ordinance is declared unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of this legislation or ordinance. The City of College Place, Washington hereby declares that it would have passed this law, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared unconstitutional; and

Section 4: Effective Date. This ordinance shall take effect and be in full force five days after its passage and publication as provided by law.

PASSED by the City Council of the City of College Place, Washington, this 11th day of June, 2024.

Norma L. Hernández, Mayor

Attest:

Approved as to form:

Sherri St. Clair, City Clerk

Rea Culwell, City Attorney



BID ABSTRACT
City of College Place
Post Office Crosswalk Safety Project
College Place, WA
Tuesday, June 4, 2024 at 3:00 pm

J-U-B PROJ. NO.: 30-20-075-053

J-U-B PROJ. NO.: 30-20-075-053				ENGINEER'S ESTIMATE		LOW BIDDER	
						Moreno & Castillo Construction	
ITEM NO.	APPROX. QUANTITY		BASE BID SCHEDULE A	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
			PREPARATION		\$ 20,905.00		\$ 29,366.74
1	1	L.S.	MOBILIZATION	\$ 15,000.00	\$ 15,000.00	\$ 17,000.00	\$ 17,000.00
2	87	S.Y.	REMOVING ASPHALT CONC. PAVEMENT	\$ 20.00	\$ 1,740.00	\$ 56.48	\$ 4,913.76
3	83	S.Y.	REMOVING CEMENT CONC. SIDEWALK	\$ 25.00	\$ 2,075.00	\$ 59.20	\$ 4,913.60
4	85	L.F.	REMOVING CEMENT CONC. CURB AND GUTTER	\$ 17.00	\$ 1,445.00	\$ 14.46	\$ 1,229.10
5	48	S.F.	REMOVING PAINTED CROSSWALK LINE	\$ 10.00	\$ 480.00	\$ 12.20	\$ 585.60
6	33	L.F.	REMOVING PAINT LINE	\$ 5.00	\$ 165.00	\$ 21.96	\$ 724.68
			STORM WATER		\$ 8,944.00		\$ 21,149.88
7	2	EA.	CATCH BASIN TYPE CITY	\$ 1,800.00	\$ 3,600.00	\$ 3,060.13	\$ 6,120.26
8	37	L.F.	HIGH DENSITY POLYETHYLENE (HDPE) PIPE 8 IN. DIAM.	\$ 52.00	\$ 1,924.00	\$ 178.08	\$ 6,588.96
9	37	L.F.	HIGH DENSITY POLYETHYLENE (HDPE) PIPE 10 IN. DIAM.	\$ 60.00	\$ 2,220.00	\$ 182.12	\$ 6,738.44
10	2	EA.	CONNECT TO EXISTING DRAINAGE STRUCTURE	\$ 600.00	\$ 1,200.00	\$ 851.11	\$ 1,702.22
			SURFACING		\$ 500.00		\$ 2,701.70
11	10	TON	CRUSHED SURFACING TOP COURSE	\$ 50.00	\$ 500.00	\$ 270.17	\$ 2,701.70
			HOT MIX ASPHALT		\$ 2,333.00		\$ 7,931.55
12	33	SY	PAVEMENT REPAIR	\$ 70.00	\$ 2,333.00	\$ 240.35	\$ 7,931.55
			EROSION CONTROL AND ROADSIDE PLANTING		\$ 500.00		\$ 83.28
13	2	EA.	INLET PROTECTION	\$ 250.00	\$ 500.00	\$ 41.64	\$ 83.28
			TRAFFIC		\$ 123,869.50		\$ 110,684.48
14	80	L.F.	CEMENT CONC. TRAFFIC CURB AND GUTTER	\$ 22.00	\$ 1,760.00	\$ 104.72	\$ 8,377.60
15	33	L.F.	PAINT LINE	\$ 1.50	\$ 49.50	\$ 10.98	\$ 362.34
16	72	S.F.	PAINTED CROSSWALK LINE	\$ 10.00	\$ 720.00	\$ 6.10	\$ 439.20
17	56	L.F.	PAINTED STOP LINE	\$ 15.00	\$ 840.00	\$ 7.32	\$ 409.92
18	1	L.S.	DOUBLE-SIDED RRFB SYSTEM	\$ 37,000.00	\$ 37,000.00	\$ 24,380.18	\$ 24,380.18
19	1	L.S.	ILLUMINATION SYSTEM	\$ 18,000.00	\$ 18,000.00	\$ 27,455.16	\$ 27,455.16
20	1	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	\$ 35,000.00	\$ 35,000.00	\$ 9,005.26	\$ 9,005.26
21	1	L.S.	MIOVISION PEDESTRIAN COUNTER	\$ 10,000.00	\$ 10,000.00	\$ 12,958.83	\$ 12,958.83
22	1	L.S.	ADA FEATURES SURVEYING	\$ 2,500.00	\$ 2,500.00	\$ 6,101.15	\$ 6,101.15
23	100	S.Y.	CEMENT CONC. SIDEWALK	\$ 100.00	\$ 10,000.00	\$ 152.64	\$ 15,264.00
24	2	EA.	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A	\$ 4,000.00	\$ 8,000.00	\$ 2,965.42	\$ 5,930.84
			OTHER ITEMS		\$ 8,000.00		\$ 6,934.81
25	1	L.S.	CONSTRUCTION SURVEYING	\$ 5,000.00	\$ 5,000.00	\$ 6,101.15	\$ 6,101.15
26	1	L.S.	SPCC PLAN	\$ 3,000.00	\$ 3,000.00	\$ 833.66	\$ 833.66
			BASE BID SCHEDULE A TOTAL		\$165,051.50		\$178,852.44
ITEM NO.	APPROX. QUANTITY		BASE BID SCHEDULE B - S.E. ASH AVENUE RECHANNELIZATION	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
			PREPARATION		\$ 7,679.00		\$ 10,787.03
1	1	L.S.	MOBILIZATION (10%)	\$ 3,900.00	\$ 3,900.00	\$ 3,500.00	\$ 3,500.00
2	1027	L.F.	REMOVING PAINT LINE	\$ 2.00	\$ 2,054.00	\$ 4.09	\$ 4,200.43
3	230	L.F.	REMOVING PAINTED CURB	\$ 7.50	\$ 1,725.00	\$ 13.42	\$ 3,086.60
			TRAFFIC		\$ 30,127.50		\$ 31,934.36
4	55	L.F.	PAINTED STOP LINE	\$ 15.00	\$ 825.00	\$ 3.76	\$ 206.80
5	14	EA.	PAINTED BICYCYCLE LANE SYMBOL	\$ 500.00	\$ 7,000.00	\$ 158.63	\$ 2,220.82
6	1	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	\$ 5,000.00	\$ 5,000.00	\$ 6,047.51	\$ 6,047.51
7	3747	L.F.	PAINT LINE	\$ 1.50	\$ 5,620.50	\$ 0.31	\$ 1,161.57
8	586	L.F.	PAINTED WIDE LINE	\$ 7.00	\$ 4,102.00	\$ 0.84	\$ 492.24
9	4	EA.	PAINTED TRAFFIC ARROW	\$ 270.00	\$ 1,080.00	\$ 59.79	\$ 239.16
10	1	L.S.	PERMANENT SIGNING	\$ 6,500.00	\$ 6,500.00	\$ 21,566.26	\$ 21,566.26
			OTHER ITEMS		\$ 5,000.00		\$ 3,050.57
11	1	L.S.	CONSTRUCTION SURVEYING	\$ 5,000.00	\$ 5,000.00	\$ 3,050.57	\$ 3,050.57
			BASE BID SCHEDULE B TOTAL		\$42,806.50		\$45,771.96
ITEM NO.			TOTAL BID AMOUNT		TOTAL PRICE		TOTAL PRICE
1.			BASE BID (SCHEDULE A) TOTAL		\$165,051.50		\$178,852.44
2.			BASE BID (SCHEDULE B) TOTAL		\$42,806.50		\$45,771.96
			TOTAL COMBINED BIDS		\$207,858.00		\$224,624.40

HELPING EACH OTHER CREATE BETTER COMMUNITIES



THE
LANGDON
GROUP



GATEWAY
MAPPING
INC.

June 5, 2024

J-U-B FAMILY OF COMPANIES

Robert McAndrews
Public Works Director
City of College Place
625 S. College Ave.
College Place, WA 99324

RE: **CITY OF COLLEGE PLACE – POST OFFICE CROSSWALK SAFETY PROJECT –
RECOMMENDATION OF AWARD**

Dear Robert,

On June 4, 2024, one (1) eligible bid proposal was received and opened on the above referenced project. The Bid Tabulation is attached, and the results of the proposals are as follows:

	Engineer's Estimate	<i>Moreno & Castillo Construction, LLC</i>	N/A	N/A
Base Bid 1 (Schedule A)*	\$165,000	\$178,852.44		
Base Bid 2 (Schedule B)*	\$43,000	\$45,771.96		
Total Combined Bids	\$208,000	\$224,624.40		

* Totals include 8.8% City of College Place Sales Tax.

Based on the results of the eligible bid proposal received, it is our recommendation that the City of College Place award all Base Bids for the above-mentioned project to **Moreno & Castillo Construction, LLC** in the amount of **Two Hundred Twenty-Four Thousand Six Hundred Twenty-Four Dollars and Forty Cents (\$224,624.40)**. This recommendation is conditional upon the City having sufficient funding for the project.

Sincerely,

Cliff Woods, P.M.P.

Senior Construction Manager
J-U-B ENGINEERS, Inc.

Enc: Bid Tabulation
Notice of Intent to Award
CC: Rick Door, J-U-B ENGINEERS, Inc.
Travis Marden, J-U-B ENGINEERS, Inc.

CITY OF COLLEGE PLACE
POST OFFICE CROSSWALK SAFETY PROJECT
WALLA WALLA, COUNTY, WASHINGTON

NOTICE OF INTENT TO AWARD

The **City of College Place** announces its intent to award the contract for the **Post Office Crosswalk Safety** project to **Moreno & Castillo Construction, LLC** for the amount of **Two Hundred Twenty-Four Thousand Six Hundred Twenty-Four Dollars and Forty Cents (\$224,624.40)**.

This Notice of Intent to Award is subject to execution of a written contract and, as a result, this Notice does NOT constitute the formation of a contract between the **City of College Place** and the apparent successful bidder. The bidder shall not acquire any legal or equitable rights relative to the contract services until a contract containing terms and conditions acceptable to the **City of College Place** is executed. If the apparent successful bidder fails to negotiate and execute a contract with the **City of College Place**, the **City of College Place** may revoke the award and award the contract to the next lowest bidder or withdraw the Sealed Bid. The **City of College Place** further reserves the right to cancel this Notice of Intent to Award at any time prior to the execution of a written contract.

This Notice of Intent to Award starts the two (2) full business day period in which an unsuccessful bidder may file a written protest pursuant to RCW 39.04.105.

Thank you for participating in the competitive selection process.

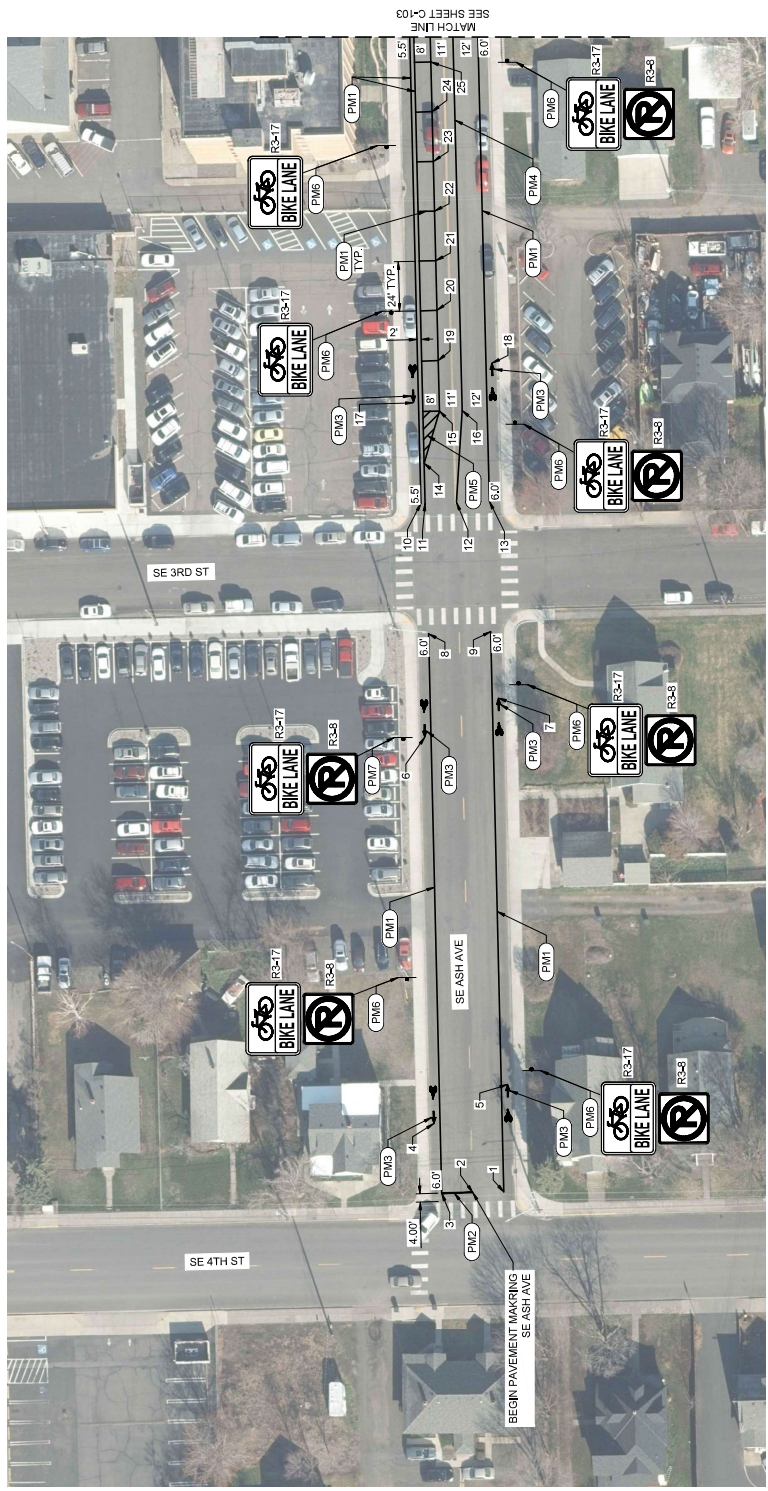
Owner: **City of College Place**



Robert McAndrews, Public Works Director

6/6/2024

Date



PAVEMENT MARKING TABLE		
POINT #	NORTHING	EASTING
22	267485.60	2176845.73
23	267489.59	2176845.14
24	267513.59	2176844.55
25	267537.58	2176843.96

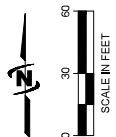
PAVEMENT MARKING TABLE		
POINT #	NORTHING	EASTING
15	267366.03	2176948.11
16	267369.32	2176893.11
17	267372.93	2176835.42
18	267392.11	2176873.49
19	267393.32	2176847.51
20	267417.62	2176846.92
21	267441.61	2176846.33

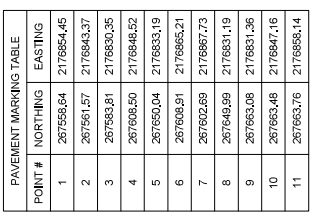
PAVEMENT MARKING TABLE				
POINT #	NORTHING	EASTING		
8	267261.40	2176942.89		
9	267262.47	2176972.87		
10	267324.46	2176839.21		
11	267324.51	2176941.21		
12	267324.92	2176856.30		
13	267326.36	2176872.19		
14	267343.83	2176940.73		

PAVEMENT MARKING TABLE		
POINT #	NORTHING	EASTING
1	266593.193	2176879.19
2	266591.58	2176864.19
3	266591.23	2176849.20
4	267024.89	2176945.41
5	267043.73	2176890.98
6	267211.46	2176941.05
7	267230.30	2176976.62

KEYED NOTES

- | PAVEMENT MARKING | |
|------------------|--|
| PM1 | WHITE EDGE LINE |
| PM2 | STOP LINE |
| PM3 | SEE WSDOT STD PLAN M-24.60-04
BIKE LANE SYMBOL |
| PM4 | SEE WSDOT STD PLAN M-9.50-02
DOUBLE CENTERLINE (YELLOW
NARROW PATTERN) |
| PM5 | WHITE CROSSHATCH MARKING |
| PM6 | REMOVE EXISTING SIGN, INSTALL
NEW SIGNS ON EXISTING POST. |
| PM7 | INSTALL NEW SIGN(S) AND POST
BEHIND SIDEWALK. |





9.30 – Regulation of camping and storage of personal property on city right of ways

9.30.010 Definitions.

- A. “Camping” or “camp” means to pitch or occupy camp facilities, and/or to use camping paraphernalia.
- B. “Camping facilities” includes, but is not limited to, tents, huts, large containers, or temporary shelters made of any material.
- C. “Camping paraphernalia” includes, but is not limited to, tarpaulins, cots, beds, sleeping bags, hammocks, and/or outdoor cooking facilities such as camp stoves.
- D. “City” means the city of College Place.
- E. “Public property” means all property owned, operated, or controlled by the city.
- F. “Recreational vehicle” means a travel trailer, motor home, truck camper, or camping trailer that is primarily designed and used as temporary living quarters, is either self-propelled or mounted on or drawn by another vehicle and is transient.
- G. “Sidewalk” or “Sidewalks” means that property between the curb lines or the lateral lines of a street and the adjacent property, set aside and intended for the use of pedestrians.
- H. “Store” means to put aside or accumulate for use when needed, to put for safekeeping, to place or leave in a location unattended whether secured or unsecured.
- I. “Street” means any highway, lane, road, roadway, street, right-of-way, alley and every way or place in the city open to the public for vehicular travel.
- J. “Trail” means any pathway, trail or other pedestrian lane, owned, operated or maintained by the city, that is open to the public for walking, biking or other nonvehicular travel.

9.30.020 Unlawful camping

- A. It shall be unlawful for any person to camp, occupy camp facilities, or use camp paraphernalia at any time in the following areas:
 - 1. Any street, roadway, alley, or public right-of-way used or designed for use by motor vehicles;
 - 2. Any multi-use pathway or trail;
 - 3. Any parking lot or area or other public property, improved or unimproved, used or designed for use by motor vehicles, including areas designated for temporary storage of non-motorized cycles;

4. Any planting strip, street median, street median strip, street median island, traffic island, roundabout island, pedestrian refuge island or median, or other area or device that is used or designed to separate streets or roadways from sidewalks, control intersections, or otherwise calm or direct the travel of motor vehicles and/or provide refuge or safe passage for pedestrians;
 5. Within 200 feet of:
 - a. College Avenue;
 - b. Rose Street;
 - c. Property and/or right of way owned or used as a railway; or
 - d. Any indoor, outdoor, or combination indoor/outdoor facility which is open to public use including but not limited to athletic fields and sports venues, fellowship halls, wedding venues and amphitheaters.
 6. On any sidewalk or sidewalk area except as permitted pursuant to 9.30.070.
 7. On any city property, including but not limited to city parks.
- B. It is unlawful for camp facilities or camp paraphernalia to unreasonably obstruct or interfere with otherwise lawful use of a street, park activity, trail, sidewalk or sidewalk area.
- C. In addition to other remedies provided by law, including, but not limited to, the penalty provisions of this chapter, any violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 8.24.

9.30.030 Exception to unlawful camping

- A. It shall not be a violation of section 9.30.020(6) if shelter accommodations, city designated camping areas pursuant to Section 9.30.070, or other housing is not otherwise available.
1. Space and accommodations shall be considered otherwise available under this subsection unless they are actually unavailable for reason(s) other than choice or conduct of the person camping, occupying camp facilities, or using camp paraphernalia on sidewalks.

9.30.040 Unlawful storage of personal property

- A. It shall be unlawful for any person to store personal property, including, but not limited to, camp facilities and camping paraphernalia, in the following areas:
1. Any street, roadway, alley, or public right-of-way used or designed for use by motor vehicles;
 2. Any multi-use pathway or trail;

3. Any parking lot or area or other public property, improved or unimproved, used or designed for use by motor vehicles, including areas designated for temporary storage of non-motorized cycles;
 4. Any planting strip, street median, street median strip, street median island, traffic island, roundabout island, pedestrian refuge island or median, or other area or device that is used or designed to separate streets or roadways from sidewalks, control intersections, or otherwise calm or direct the travel of motor vehicles and/or provide refuge or safe passage for pedestrians;
 5. Within 200 feet of:
 - a. College Avenue;
 - b. Rose Street;
 - c. Property and/or right of way owned or used as a railway; or
 - d. Any indoor, outdoor, or combination indoor/outdoor facility which is open to public use including but not limited to athletic fields and sports venues, fellowship halls, wedding venues and amphitheaters.
 6. On any sidewalk or sidewalk area except as permitted pursuant to 9.30.070.
 7. On any city property, including but not limited to city parks.
- B. It is unlawful for camp facilities or camp paraphernalia to unreasonably obstruct or interfere with otherwise lawful use of a street, park activity, trail, sidewalk or sidewalk area.
- C. In addition to other remedies provided by law, including, but not limited to, the penalty provisions of this chapter, any violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 8.24.

9.30.050 Exception to unlawful storage of personal property

- A. It shall not be a violation of section 9.30.040(6) if storage space is not available at a camping area designated in accordance with Section 9.30.070 or reasonably available at some other location.
1. Storage space shall be considered reasonably available under this subsection unless it is actually unavailable for reason(s) other than choice or conduct of the person storing personal property.

9.30.060 Parked recreational vehicles.

- A. All recreational vehicles parked on city streets shall abide by the parking rules and regulations of the city.
- B. Recreational vehicles shall not be used for residential purposes in any public parking lot or area or other public property, improved or unimproved, except as provided in subsection C of this section.
- C. The city manager or mayor, in consultation with the police chief, chief of the fire department, and director of public works, is authorized to designate areas on public property where recreational vehicles may be used for temporary residential purposes; provided, that such areas have adequate health and safety facilities to accommodate such vehicles. The city administrator, in consultation with the city attorney, is authorized to promulgate rules and regulations regarding the use of areas designated for temporary residential use by recreational vehicles.
- D. In addition to other remedies provided by law, including, but not limited to, the penalty provision of this chapter, use of a recreational vehicle in violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 8.24.

9.30.070 City designated Camping/RV Areas

The city administrator or mayor in consultation with the chief of police, chief of fire department and director of public works may designate areas where camping, storage of personal property, and/or residential use of recreational vehicles is allowed. The city administrator, in consultation with the city attorney, is authorized to promulgate rules and regulations regarding the use of designated camping areas.

9.30.080 Conditions for remaining in camping areas.

It is a condition for entering and remaining in areas designated in accordance with this chapter, that persons comply with rules and regulations promulgated by the city administrator.

9.30.090 Penalty.

Any person violating any of the provisions of this chapter, upon conviction of such violation, is guilty of a misdemeanor punishable in accordance with this Code. Any person violating any of the provisions of this chapter, upon conviction of a second or subsequent offense within 12 calendar months is guilty of a gross misdemeanor punishable in accordance with this Code.

City of College Place, Washington
ORDINANCE NO. 24-007

AN ORDINANCE BY THE CITY COUNCIL OF THE CITY OF COLLEGE PLACE, WASHINGTON AMENDING COLLEGE PLACE MUNICIPAL CODE TITLE 9, ENACTING CHAPTER 9.30 TO REGULATE CAMPING AND STORAGE OF PERSONAL PROPERTY ON CITY PROPERTY AND RIGHT OF WAYS.

Whereas, the City of College Place (City) is a non-charter code city governed by the rules and regulations of Chapter 35A Revised Code of Washington (RCW); and

Whereas, RCW 35A.11.020 allows the city to adopt and enforce ordinances pertaining to local affairs; and

Whereas, Article XI, § 11 of the Washington state Constitution allows the city to make and enforce within its limits all such local police, sanitary and other regulations as are not in conflict with general laws; and

Now therefore, the City Council of the City of College Place does hereby Ordain as follows:

Section 1: Ordinance No. 24-007 adding a new chapter to Title 9 of the College Place Municipal Code to regulate camping and storage of personal property on city right of ways as shown in Exhibit A, which is fully incorporated herein.

Section 2: Clerical Corrections. The City Clerk and the codifiers of this ordinance are authorized to make necessary clerical corrections to this ordinance including, but not limited to, the correction of scrivener's/clerical errors, references, ordinance numbering, section/subsection numbers and any references thereto.

Section 3: Severability. If any section, subsection, paragraph, sentence, clause, or phrase of this legislation or ordinance is declared unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of this legislation or ordinance. The City of College Place, Washington hereby declares that it would have passed this law, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared unconstitutional; and

Section 4: Effective Date. This ordinance shall take effect and be in full force five days after its passage and publication as provided by law.

PASSED by the City Council of the City of College Place, Washington, this 11th day of June, 2024.

Norma L. Hernández, Mayor

Attest:

Approved as to form:

Sherri St. Clair, City Clerk

Rea Culwell, City Attorney

9.30 – Regulation of camping and storage of personal property on city right of ways

9.30.010 Definitions.

- A. “Camping” or “camp” means to pitch or occupy camp facilities, and/or to use camping paraphernalia.
- B. “Camping facilities” includes, but is not limited to, tents, huts, large containers, or temporary shelters made of any material.
- C. “Camping paraphernalia” includes, but is not limited to, tarpaulins, cots, beds, sleeping bags, hammocks, and/or outdoor cooking facilities such as camp stoves.
- D. “City” means the city of College Place.
- E. “Public property” means all property owned, operated, or controlled by the city.
- F. “Recreational vehicle” means a travel trailer, motor home, truck camper, or camping trailer that is primarily designed and used as temporary living quarters, is either self-propelled or mounted on or drawn by another vehicle and is transient.
- G. “Sidewalk” or “Sidewalks” means that property between the curb lines or the lateral lines of a street and the adjacent property, set aside and intended for the use of pedestrians.
- H. “Store” means to put aside or accumulate for use when needed, to put for safekeeping, to place or leave in a location unattended whether secured or unsecured.
- I. “Street” means any highway, lane, road, roadway, street, right-of-way, alley and every way or place in the city open to the public for vehicular travel.
- J. “Trail” means any pathway, trail or other pedestrian lane, owned, operated or maintained by the city, that is open to the public for walking, biking or other nonvehicular travel.

9.30.020 Unlawful camping

- A. It shall be unlawful for any person to camp, occupy camp facilities, or use camp paraphernalia at any time in the following areas:
 - 1. Any street, roadway, alley, or public right-of-way used or designed for use by motor vehicles;
 - 2. Any multi-use pathway or trail;
 - 3. Any parking lot or area or other public property, improved or unimproved, used or designed for use by motor vehicles, including areas designated for temporary storage of non-motorized cycles;

4. Any planting strip, street median, street median strip, street median island, traffic island, roundabout island, pedestrian refuge island or median, or other area or device that is used or designed to separate streets or roadways from sidewalks, control intersections, or otherwise calm or direct the travel of motor vehicles and/or provide refuge or safe passage for pedestrians;
 5. Within 200 feet of:
 - a. College Avenue;
 - b. Rose Street;
 - c. Property and/or right of way owned or used as a railway; or
 - d. Any indoor, outdoor, or combination indoor/outdoor facility which is open to public use including but not limited to athletic fields and sports venues, fellowship halls, wedding venues and amphitheaters.
 6. On any sidewalk or sidewalk area except as permitted pursuant to 9.30.080.
 7. On any city property, including but not limited to city parks.
- B. It is unlawful for camp facilities or camp paraphernalia to unreasonably obstruct or interfere with otherwise lawful use of a street, park activity, trail, sidewalk or sidewalk area.
- C. In addition to other remedies provided by law, including, but not limited to, the penalty provisions of this chapter, any violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 8.24.

9.30.030 Exception to unlawful camping

- A. It shall not be a violation of section 9.30.020(6) if shelter accommodations, city designated camping areas pursuant to Section 9.30.080, or other housing is not otherwise available.
1. Space and accommodations shall be considered otherwise available under this subsection unless they are actually unavailable for reason(s) other than choice or conduct of the person camping, occupying camp facilities, or using camp paraphernalia on sidewalks.

9.30.040 Unlawful storage of personal property – roadway safety/downtown area.

- A. It shall be unlawful for any person to store personal property, including, but not limited to, camp facilities and camping paraphernalia, in the following areas:
1. Any street, roadway, alley, or public right-of-way used or designed for use by motor vehicles;
 2. Any multi-use pathway or trail;

3. Any parking lot or area or other public property, improved or unimproved, used or designed for use by motor vehicles, including areas designated for temporary storage of non-motorized cycles;
 4. Any planting strip, street median, street median strip, street median island, traffic island, roundabout island, pedestrian refuge island or median, or other area or device that is used or designed to separate streets or roadways from sidewalks, control intersections, or otherwise calm or direct the travel of motor vehicles and/or provide refuge or safe passage for pedestrians;
 5. Within 200 feet of:
 - a. College Avenue;
 - b. Rose Street;
 - c. Property and/or right of way owned or used as a railway; or
 - d. Any indoor, outdoor, or combination indoor/outdoor facility which is open to public use including but not limited to athletic fields and sports venues, fellowship halls, wedding venues and amphitheaters.
 6. On any sidewalk or sidewalk area except as permitted pursuant to 9.30.080.
 7. On any city property, including but not limited to city parks.
- B. It is unlawful for camp facilities or camp paraphernalia to unreasonably obstruct or interfere with otherwise lawful use of a street, park activity, trail, sidewalk or sidewalk area.
- C. In addition to other remedies provided by law, including, but not limited to, the penalty provisions of this chapter, any violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 8.24.

9.30.050 Exception to unlawful storage of personal property

- A. It shall not be a violation of section 9.30.040(6) if storage space is not available at a camping area designated in accordance with Section 9.30.08 or reasonable available at some other location.
1. Storage space shall be considered reasonably available under this subsection unless it is actually unavailable for reason(s) other than choice or conduct of the person storing personal property.

9.30.060 Parked recreational vehicles.

- A. All recreational vehicles parked on city streets shall abide by the parking rules and regulations of the city.
- B. Recreational vehicles shall not be used for residential purposes in any public parking lot or area or other public property, improved or unimproved, except as provided in subsection C of this section.
- C. The city manager or mayor, in consultation with the police chief, chief of the fire department, and director of public works, is authorized to designate areas on public property where recreational vehicles may be used for temporary residential purposes; provided, that such areas have adequate health and safety facilities to accommodate such vehicles. The city administrator, in consultation with the city attorney, is authorized to promulgate rules and regulations regarding the use of areas designated for temporary residential use by recreational vehicles.
- D. In addition to other remedies provided by law, including, but not limited to, the penalty provision of this chapter, use of a recreational vehicle in violation of this section is hereby declared to be a public nuisance. The city may abate any such nuisance as provided in Chapter 9.24.

9.30.070 City designated Camping/RV Areas

The city administrator or mayor in consultation with the chief of police, chief of fire department and director of public works may designate areas where camping, storage of personal property, and/or residential use of recreational vehicles is allowed. The city administrator, in consultation with the city attorney, is authorized to promulgate rules and regulations regarding the use of designated camping areas.

9.30.080 Conditions for remaining in camping areas.

It is a condition for entering and remaining in camping areas designated in accordance with this chapter, that persons comply with rules and regulations promulgated by the city administrator.

9.30.090 Penalty.

Any person violating any of the provisions of this chapter shall, upon conviction of such violation, is guilty of a misdemeanor punishable in accordance with this Code. Any person violating any of the provisions of this chapter shall, upon conviction of a second or subsequent offense within 12 calendar months is guilty of a gross misdemeanor punishable in accordance with this Code.

City of College Place: Development Activity - June 2024

Project Name	Use	Location	Status	Lead Generated
Commercial/Industrial				
Jersey Mike's	Fast Food Restaurant	Meadowbrook	- Sept 2023 Another fast food sandwich tenant will go in space next to Chipotle. - Dec 2023 Awaiting building permit app. - May 2024 Getting building plan submittals. - June 2024 Filed Sign Permit.	ICSC Las Vegas
Project Beyond	Gas Station & Food Mart	Rose Corridor or Meadowbrook	- June 2024 Met at Retail Convention. Interested in serving community.	ICSC Las Vegas
Project Tom	Car Wash	Meadowbrook	- June 2024 Interested in Meadowbrook sites.	ICSC Las Vegas
Project Murph	Gas Station	Meadowbrook	- June 2024 Interested in establishing gas station in outlot of Walmart.	ICSC Las Vegas

Project Boise	Grocer	Myra Rd	- June 2024 Interested in establishing a facility either at 12th Myra or Garrison Myra. Will start due diligence.	ICSC Las Vegas
Project Palouse	Commercial Developer	South College Avenue	- June 2024 Interested in partnering with Lakeside and buying properties along South College (south of Mojonner)	ICSC Las Vegas
Project Cobble	Hotel	Whitman & Myra	working out development agreement with property owner. Still trying to hammer out road access. - February 2024 Still working out development agreement. - May 2024 Purchase and Sale agreement in place. Dependent upon roundabout. - June 2024 Providing city with materials to go after State	ICSC Las Vegas
Project Hammer	Big Box Hardware	South College Avenue	- June 2024 Big Box hardware store interested in serving area.	ICSC Las Vegas
Project Bullseye	Big Box	Whitman & Myra	- November 2023 Option purchased on site by a big box retailer. - March 2024 Option agreement exists. - June 2024 Tied to project Cobble and its success.	ICSC Las Vegas

Project OPH	Breakfast Restaurant	Whitman & Myra	November 2023 Option for breakfast restaurant. Dependent upon hotel. -March 2024 Signed agreement based on hotel coming in adjacent. - June 2024 Tied to Project Cobble.	Property Owner.
Project DE	Brunch Restaurant	Meadowbrook	- June 2024 Interested in serving market.	ICSC Las Vegas
Project Q	Fast Food Restaurant	WWU Area	- November 2023 National mexican fast food franchise is looking at entering area adjacent to WWU Campus. - June 2024 No Update	WWU Contact
Project Y	Grocer	Whitman & Myra	- December 2023 option for regional grocer at play. - June 2024 Is going to Board of Company for site approval.	Cold Call
Project MP	Hotel	Meadowbrook	- December 2023 National hotel brand looking at going adjacent to HopThief. Should have plans turned in by Summer. - June 2024 No Change.	ICSC Las Vegas
Project Bed	Hotel	Meadowbrook or Near University	- June 2024 National hotel brand looking at putting medium end extended stay chain in City.	ICSC Las Vegas

Project FM	Medium sized grocery and general merchandise store.	College Avenue, across from College Place High School.	- Jan 2019 This site is shortlisted with another site at end of Myra Rd in Walla Walla. User would like to open up by 2021/2022. -Dec 2022 Awaiting if Feds will approve merger of Kroger/Safeway. Will have impact on viability of this deal. - June 2024 Continue monitoring progress of Lakeside development before making decision.	ICSC Las Vegas
Project Flight	Aerospace	Martin Airfield	- Nov 2023 Project is now annexed into the City. Working with property owner on future planning. - Dec 2023 No Update. - June2024 Working with developer via State CERB Grant for infrastructure planning.	Property owner.
Residential				
Homestead Subdivision Phase 3C, 3D, and 3E.	Residential subdivision constructed by Hayden Homes.	Homestead and Doans Street south of Fourth Street.	- December 2021 Reviewing plans for wise size. - April 2022 No change. - October 2022 Planning to break ground this Fall. - Dec 2022 Wise size development got moved to next Spring. - June 2024 Will start to develop wise size once done with Avery Estates in WW.	Hayden Homes has owned property for the last decade.
Dawson Cottages	6 cottages	Birch between 4th and 6th	- June 2024 Developing cottages.	Ben Dawson
NW Residential	20 Apartments	SW Oakwood Pl off of SW 6th	- June 2024 Going through entitlement process.	NW Residential Properties

Villages at Fort Walla Walla	180 multi-family apartment units.	South side of Whitman Drive/Deccion intersection.	- Jan 2019 Plan submittal is being reviewed by development staff. Spring 2019 construction. - Nov 2022 Revizing development plans. Likely will develop in 2023. - Feb 2023 Developer paid us bill due. Will turn in new, different plans. Likely will petition for MFTE. - May 2023 Continue going through permitting. Getting near end. - - Dec 2023 Grading underway. Planned for full groundbreaking in March. - February 2024 Processing MFTE Form. - May 2024 Supposed to break ground this month on forms for buildings. - June 2024 Getting last minute additional financing to make reality.	Port of Walla Walla was approached by Farran Group about property and was directed to Bob Price and the City.
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Sirmon Development	Multi-family apartments.	942 NE Spitzenburg St	- Jan 2019 Plan submittal is being reviewed by development staff. - April 2021 Awaiting final engineering drawings. - Dec 2022 Project appears to be on ice for now. Tad asked about vesting rights. - Feb 2024 Talked to developer. Expecting dirt to be turned this year. - June 2024 Buildings are being built.	Property owner.
Lakeside/College Holdings Development	Single & Multi-Family	197 Mojonner Rd	- June 2024 Expecting Master Planned Development application is planned for July 2024. Engineering on East-West Rd has started.	Property owner.
Villages at Garrison Creek Phase 11 and 13	Single Family	Villages at Garrison Creek development.	- December 2021 Received submittal for 72 lot single family in vacant middle donut hole to finish up development. - Sept 2023 Engineer for developer is working on site issues. - Dec 2023 Expecting infrastructure to go in soon. - May 2024 Infrastructure being installed. - June 2024 Still working on site infrastructure.	Property developer.

VESPR	Mixed-Use	8th & College	diligence. - April 2022 Developer out of Prosser closed on property. Plans to construct mixed-use building. - December 2022 Incentive granted. Going through final permitting. Expected to break ground early 2023. - Feb 2023 Expecting to break ground by Q2. - May 2023 Broke ground. Plumbing and foundation is in. - June 2023 Foundation is in. - Nov 2023 Construction Continues. - May 2024 Should be complete in Q2 2024. - June 2024 Leasing, Certificate of Occupancy issued.	Property owner.
Deer Meadows Subdivision	Townhome	SW 12th	- December 2021 Developer Jeff Kelly out of Tri Cities is planning townhomes for site purchased from Marc Maiuri - Sept 2022 SEPA out now. 13 lot subdivision proposed by Jeff Kelly out of Pasco. - October 2022 Hearing Examiner meeting held. - December 2022 Going through final entitlements. - February 2023 Planning for a Summer start. - May 2024 Have turned in plans for grading permits. - June 2024 Getting close to grading.	Developer

Martin Airfield/Tarrgon Development	Airfield Update, Flex Facilities, Residential	West Whitman Drive	- Feb 2024 Project is now annexed into the City. Working with property owner on future planning. - May 2024 Martin Airfield study is starting.	Developer
Salerno Estates	Single Family Homes	359 SW 12th	- May 2023 Had public comment period for this development. 8 homes on approximately half acres. Reviewing comments and finalizing conditions of approval. - June 2023 Site plans approved. Past appeal period. - Dec 2023 Working with developer on issues. - Feb 2024 Infrastructure plans getting turned in. - March 2024 Expecting construction to start soon. - May 2024 Working on site utilities. - June 2024 Getting ready to record plat.	Developer