

City of Springfield Public Improvement Project

Invitation to Bid for:

**P21085
Main Street Pedestrian Crossing Construction**

The information provided is an abridged version of the complete Invitation to Bid and is provided for review and informational purposes only. To submit a bid for consideration, a complete set of bid documents is required.

A complete set of bid documents may be viewed or purchased at the address shown below:

**City of Springfield
Development and Public Works Department
225 Fifth Street
SE Quad
Springfield, OR 97477**

Contact: Terri White at 541-726-3628 or twhite@springfield-or.gov



City of Springfield
Community Development Division

SPECIFICATIONS
for

P21085

Main Street Pedestrian Crossing Construction

MANDATORY PRE-BID MEETING

Date: 6/12/14
Time: 4:00 p.m.
Location: City of Springfield
City Hall
Room: Jesse Maine Room
225 Fifth Street
Springfield, OR 97477

BID OPENING

Date: 6/24/2014
Time: 2:00 p.m.
Location: City of Springfield
City Hall
Room: Jesse Maine Room
225 Fifth Street
Springfield, OR 97477

The deadline for submission of project specific questions prior to bid opening is 6/17/14 at 12:00 p.m. (noon) as specified in Section 3.3 of the Instruction to Bidders.

This Project is funded in full or in part by:

- State Funds
 Neither State nor Federal Funds

Please Take Note: All information required must be submitted as directed.

For your Bid to be considered responsive by the City of Springfield you must include all documents included in the Invitation to Bid with your Bid. Additionally, any addendums or revisions must be acknowledged and submitted with your Bid. *The only exception to this is any plans or drawings, which are not required to be submitted as a part of your Bid.*

All documents requesting information must be completed in full and signed where appropriate. *The only exceptions to this requirement are the sample Performance Bond, Payment Bond and Contract documents which are provided here as a reference. However, if you are awarded the Bid, you will be required to submit fully executed copies of these documents upon request.*

A complete description of submittal requirements can be found in the Instruction to Bidders document included in this request for bid under the heading; **5. Bid.**

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**CITY OF SPRINGFIELD, OREGON
Invitation to Bidders**

Public Works Improvement Project

Sealed bids will be received at the office of the Finance Director, Robert Duey at the City of Springfield Finance Department, 225 Fifth Street, Springfield, OR 97477, until, but no later than, 2:00 p.m. Local Time, the 24th day of June, 2014 and opened at 2:05 p.m. the same day at the same location, for the construction of the following public works improvement project in the City of Springfield:

Project No. P21085 Title: Main Street Pedestrian Crossing Construction

Description: Install two rapid rectangular flashing beacon (RRFB) pedestrian crossings in the vicinity of 41st and 35th Streets on Main Street in Springfield, Oregon.

Bid documents are available from the Department of Development and Public Works, City of Springfield, 225 Fifth Street, Springfield, OR 97477, for a non-refundable fee of \$40.00 and are available for viewing at this location. Bid documents available on line at <http://www.springfield-or.gov/DPW/InvitationBid.htm> and those on file at plan centers are incomplete and cannot be used to submit bids. The 1994 edition, as most recently amended, of the City's Standard Construction Specifications, with subsequent revisions, are available for a fee of \$41.00 or can be viewed on-line at <http://www.springfield-or.gov/DPW/StandardConstructionSpecifications.htm>.

A **mandatory** pre-bid meeting will be held on June 12, 2014 at 4:00 p.m. in the Jesse Maine meeting room.

All questions should be addressed to Terri White, Engineering Assistant, at 541-726-3628 or twhite@springfield-or.gov. The deadline for submission of questions regarding this Invitation to Bid is June 17, 2014 at 12:00 p.m. (noon). Contact with any other City officials may be grounds for disqualification of bid.

No Bid will be received or considered by the City unless the bidder has a current, valid certificate of registration issued by the Construction Contractor's Board as defined in ORS 701.005 and/or a valid landscape contractors license as defined in ORS 671.520 by the State Landscape Contractor's Board, as applicable, at the time the Bid is made and unless the bid contains a statement by the bidder as part of his/her bid that the provisions required by ORS 279C.838 through ORS 279C.870 shall be included in his/her contract. In accordance with ORS 279C.365, the City of Springfield will require that each bid must contain a statement as to whether the bidder is a resident bidder, as defined in ORS 279A.120.

The City of Springfield encourages contractors, sub-contractors and vendors who are minority, woman-owned and emerging small businesses to participate in City projects.

The City of Springfield may reject any or all bids not in compliance with all prescribed public bidding procedures and requirements, including the requirement to demonstrate the bidder's responsibility under ORS 279C.375, or waive minor irregularities not affecting substantial rights and may reject for good cause any or all bids upon a finding of the City of Springfield it is in the public interest to do so and accept such bids that in the opinion of the Springfield City Council are in the best interest of the City.

Bids will be accepted and awarded in accordance with the City of Springfield's document on general conditions and standard specifications for public works construction.

Note: If applicable to this project, the First-Tier Subcontractor Form must be completed in full and submitted by the specified deadline or the bid will be rejected.



ROBERT J. DUEY
Finance Director

Published: Daily Journal June 6, 2014
Register Guard Publishing June 6, 2014



City of Springfield
 225 Fifth Street
 Springfield, OR 97477

Bid Submittal

Project No. P21085
Project Title: Main Street Pedestrian Crossing Construction

Bid Items:

Item No.	Description	Approx. Quantity	Per	Unit Price	Total Price Extension
A - Construction Bid Items					
0052	Remove Trees	1	D.F.		
0060	Mobilization	1	L.S.		
0061	Temporary Traffic Control	1	L.S.		
0063	Clearing	1	L.S.		
0064	Erosion Control	1	L.S.		
0066	Lawn and Landscaping Restoration	1	L.S.		
0086	Aggregate Base ¾ - 0	112	TON		
0103	4-inch Asphalt Pavement Restoration; Level 2, Class C	1,560	S.F.		
0116	Reinforced Concrete Curb	42	L.F.		
0121	8-inch Concrete Driveway	612	S.F.		
0122	Extruded Concrete Curb	84	L.F.		
0132	Concrete Curb and Gutters	7	L.F.		
0133	Concrete 5-inch Non-reinforced Median- Doweled	554	S.F.		
0137	4-inch Concrete Sidewalk	578	S.F.		
0141	Handicap Ramps	580	S.F.		
0142	Truncated Domes for Handicap Ramps	12	EACH		
0153	Chan Link Fence	162	L.F.		
0197	Saw-cutting Existing Surface	721	L.F.		
0210	Chain Link Gate	3	EACH		
0246	Install Street Signs	5	EACH		
0271	10-inch Cleanout Assembly	1	EACH		
0272	Traffic Rated Cleanout Box and Cover	2	EACH		
0331	Catch Basin	2	EACH		
0384	Core Drill and Install 3-inch PVC Weephole	1	EACH		
0503	3-inch Weep PVC Pipe	12	L.F.		
0720	Concrete Wheel Stops	5	EACH		
Total Construction Bid Items					\$
B - Traffic Bid Items					
0231	4-inch Plastic Striping	704	L.F.		
0243	24-inch Plastic Striping	300	L.F.		
0649	Paint Parking Lot Spaces	108	L.F.		
0670	Side Mount Rectangular Rapid Flashing Beacon (RRFB) Pole Assembly System Complete	4	EACH		
0671	Rectangular Rapid Flashing Beacon (RRFB) Pole Assembly System Complete	4	EACH		
0712	ADA Wheelchair Symbol Paint (Stencil)	1	L.S.		
Total Traffic Bid Items					\$
C - Optional Bid Item					
0153a	Montage Design Ornamental Fence	162	L.F.		
Total Optional Bid Items					\$
Project Bid Item Total (A + B):					\$
Project Bid Item Total (A, B + C):					\$

Terms, Declarations and Bid Submittal

Bidder's Understanding

Bidders shall determine for themselves all the conditions and circumstances affecting the projected cost of the proposed work by personal examination of the site, Contract documents, and by such other means they may deem to be necessary. It is understood and agreed that in the event the City has obtained information from data at hand regarding underground or other conditions or obstructions depicted in the Contract documents, there is no expressed or implied agreement that such conditions are fully or correctly shown, and the Bidder must take into consideration the possibility that conditions affecting the cost or quantity of work may differ from those indicated.

The Bidder is familiar with and is satisfied as to all federal, state and local laws and regulations that may affect cost, progress, and performance of the work.

Bid

The undersigned Bidder having examined the Specifications and Contractual Documents and having satisfied themselves as to all conditions to be encountered, hereby proposes to furnish all labor, material and equipment and perform all work necessary to complete Project No P21085 in accordance with this bid, the Contract Plans, City of Springfield Standard Construction Specifications, 1994 Edition, and all subsequent modifications, the Special Provisions, and all other Contractual Documents at the prices and on the terms herein contained.

The unit price bids are submitted with the understanding that the quantities stated are approximate and are given only as the basis of calculation for comparison of bids and determining that the unit prices are balanced and that final payment for all unit price bid items will be based on actual quantities.

It is understood that in the instance of a discrepancy between the unit price and the extension (total price extension) the unit price shall govern. The extension shall be determined by multiplying the unit price by the number of units (approximate quantity).

Bid Guarantee

As required by ORS 279C.365(4) each bid shall be accompanied by a Bid Bond, cash, or a certified or cashier's check written upon a bank in good standing and in a form acceptable to the City, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10 percent of the total amount of the Bid. Bid Bonds shall be issued by a surety company registered to issue bonds in the State of Oregon, and utilizing a bond form acceptable to the City. The City will accept AIA Document A310-2010. The Bid Bond may not be altered.

Such Bid Guarantee shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance and/or Payment Bond issued by a viable bond company acceptable to the City as required by ORS 279C.380 and to execute the Contract within ten (10) days (Saturday, Sunday, and holidays excepted) after receiving Contract from the City for execution. For information regarding Performance and Payment Bond requirements see City of Springfield Contract document, Section 5. City Bonding.

Bid Acceptance Period

This bid will remain subject to acceptance for a period of 60 days after the bid opening, or for such longer period of time that the Bidder may agree to in writing upon request of the City.

Liquidated Damages

The City of Springfield and the Contractor agree that; (a) the amounts so fixed are reasonable forecasts of just compensation for the harm that is caused by the breach; (b) the harm that is caused by the breach is one that is incapable of or very difficult of accurate estimation; and, (c) the amount so fixed is not fixed as a penalty to coerce performance of the Contract but is rather intended to be a genuine pre-estimation of injury to the City of Springfield in lieu of performance within the contract time by the Contractor.

a. Delay

It is agreed by the City of Springfield and by the Contractor that the need exists for a damage provision in the event the Contractor fails to complete the work within the Contract time specified, or any extension thereof, by the City of Springfield. The City of Springfield and the Contractor further agree that the Contractor shall be liable to the City of Springfield for fixed, agreed and liquidated damages for each and every calendar day of delay in the amount of \$250.00 per day in accordance with Subsection 108.07 of the Standard Construction Specifications.

b. Failure to Report Spills

The Contractor also agrees to liquidated damages in the amount of \$500.00 per incident for failure to report sewage spills plus an amount sufficient to reimburse the City for any civil and administrative penalties paid by the City as a result of the contractor's failure to report. Failure to report sewage spills may subject the City to (1) civil penalties of up to \$32,500.00 per day of violation pursuant to Section 309(d) of the Clean Water Act, 33 U.S.C. § 1319(d); (2) administrative penalties of up to \$11,000.00 per day for each violation, pursuant to Section 309(g) of the Clean Water Act, 33 U.S.C. § 1319(g); or (3) civil action in federal court for injunctive relief pursuant to Section 309(b) of the Clean Water Act, 33 U.S.C. § 1319(b).

Contract Time of Completion

The Contractor shall not begin work under this bid until written Notice to Proceed has been received. The Contractor shall complete the work under this bid within 20 consecutive working days from the date of actual commencement of work or the date occurring ten days after the date of the Notice to Proceed, whichever occurs first, or such other starting date as is fixed by the Notice to Proceed. CONTRACTOR shall schedule work such that all construction and restoration is completed before August 31, 2014.

The Contractor shall apply for any extensions of time as specified in Subsection 108.06 of the Standard Construction Specifications.

Certifications

The undersigned hereby certifies that:

- 1.) If awarded the Contract, that they shall fully comply with all provisions regarding the prevailing wage rates as required by ORS 279C.800 to 279C.870 and/or 40 U.S.C. 2762 as applicable.
- 2.) The Contractor, Subcontractor, suppliers of materials or services, and others engaged by the contractors, shall comply at all times with and observe all such laws, ordinances, regulations, orders, and decrees; and shall hold harmless and indemnify the City of Springfield and its representatives against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree.
- 3.) In accordance with ORS 279C.505, the Contractor will;
 - a) Make payment promptly, as due, to all persons supplying to the Contractor labor or material for the performance of the work provided for in the Contract.
 - b) Promptly pay all contributions or amounts due the State Industrial Accident Fund, or private carrier of accident insurance, from such Contractor or Subcontractor incurred in the performance of the Contract. If a private carrier is used, the Contractor shall notify the Engineer as to the carrier's name and address before commencement of work.
 - c) Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished.
 - d) Pay to the Department of Revenue all sums withheld from employees under ORS 316.167.
 - e) Have an employee drug testing program in place at the time of signing the contract and will maintain such drug testing program in place over the life of the Contract.
- 4.) In accordance with ORS 279C.530, the Contractor will;

- a) Promptly, as due, make payments to any person, co-partnership, association or corporation, furnishing medical, surgical, and hospital care or other needed care and attention, incidental to sickness or injury, to the employees of such Contractor, of all sums which the Contractor agrees to pay for such services and all monies and sums which the Contractor:
 - 1. May or shall have deducted from the wages of his employees for such services pursuant to the terms of Oregon Revised Statutes and any contract entered in pursuant thereto; or
 - 2. Collected or deducted from the wages of his employees pursuant to any law, contract, or agreement for the purpose of providing or paying for such service; and
 - 3. All employers working under the Contract are either employers that will comply with ORS 656.017 or employers that are exempt under ORS 656.126.

- 5.) They have not, and will not, discriminate against a Subcontractor in the awarding of a subcontract because the Subcontractor is a minority, women or emerging small business enterprise certified under ORS 200.055 as required by ORS 279A.110.

- 6.) No Contractor, Subcontractor or any firm, corporation, partnership or association in which the Contractor or Subcontractor has a financial interest who appears on the *List of Contractors Ineligible to Receive Public Works Contracts*, as established by the Bureau of Labor and Industries, will perform work under this Contract, as specified in ORS 279C.860.

- 7.) No Contractor, Subcontractor or any firm, corporation, partnership or association in which the Contractor or Subcontractor has a financial interest who appears on the Construction Contractor's Board *Not Qualified to Hold Public Contracts* list, will perform work under this Contract, as specified in ORS 701.227(4).

- 8.) The Contractor shall have a current, valid certificate of registration issued by the Construction Contractor's Board as defined in ORS 701.005(2) and/or a valid landscape contractor's license as defined in ORS 671.520(2) by the State Landscape Contractor's Board, as applicable, in place at the time the bid is presented.

- 9.) All Subcontractors shall have a current, valid certificate of registration issued by the Construction Contractor's Board as defined in ORS 701.005(2) and/or a valid landscape contractors license as defined in ORS 671.520(2) by the State Landscape Contractor's Board, as applicable in place prior to performing any work under the Contract.

- 10.) The Contractor shall function as an independent contractor for the purposes of this Contract and shall not be considered an employee of the City of Springfield for any purpose. The Contractor shall assume sole responsibility for any debts or liabilities that may be incurred by the Contractor in fulfilling the terms of this Contract and shall be solely responsible for the payment of all federal, state, and local taxes which may accrue because of this Contract.

Bid Addenda

All Addenda issued are considered to be part of the specifications of the Invitation to Bid and, as such, are as incorporated into the Contract as specified in Section 104.02 of the Standard Construction Specifications.

By signing below, I acknowledge the receipt of the following Addenda documents and certify that the specifications contained in each have been considered and incorporated into the bid as presented. All Addenda must be included with the bid submitted.

Addenda Number	Addenda Date

Declarations

The undersigned Bidder declares that the only persons or parties interested in the bid are those named herein, that this bid is, in all respects, fair and without fraud, that it is made without collusion with any official of the City, and that the bid is made without any connection or collusion with any person submitting another bid on this project.

I have read, fully understand, and agree that as Bidder I, and all Subcontractors, will comply with all of the terms and conditions of the contract for which this bid is presented. By signing below I attest that I am an officer or a duly authorized representative of the business listed below and that I possess the legal authority to submit this bid for consideration.

Bidder's Signature _____

Bidder's Name *(Please Print)* _____

Title _____

Business Name _____

Business Address _____

City _____ State _____ Zip _____

Phone Number _____ Cell Phone _____

E-mail Address _____ Fax Number _____

Date _____

The award of this Contract shall be made to the responsible Bidder with the lowest responsive bid.

PREVAILING WAGE RATE INFORMATION

Prevailing Wage Rates information can be found at the following website:

http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_oregon_2014.aspx

For the proper Prevailing Wage Rates applicable to this project please refer to the following publications:

- 1.) *Prevailing Wage Rate Publication; Prevailing Wage Rates for Public Works Contracts in Oregon (subject only to state law) and State Apprenticeship Rates with an effective date of January 1, 2014.*
- 2.) *The following Amendments to the Prevailing Wage Rates for Public Works Contracts in Oregon also apply:*
 - a.) *April 1, 2014 Amendments*



CITY OF SPRINGFIELD

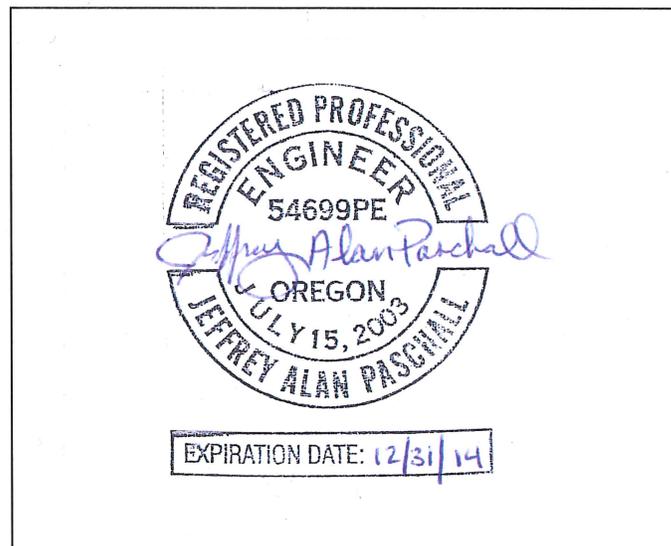
Special Provisions

for

P21085

Main Street Pedestrian Crossings Construction

Engineer's Seal



SPECIAL PROVISIONS

References to number of Divisions, Section, Sub-Section and the like shall mean the 1994 Edition of the Standard Construction Specifications, including all Addenda, Standard Drawings, and other Contractual Documents of the City of Springfield, Lane County, Oregon.

These Special Provisions supplement and amplify certain sections of the City of Springfield, Oregon, [Standard Construction Specifications](#). The Standard Construction Specifications shall apply except as modified herein. These Special Provisions and additional technical specifications may contain occasional requirements not pertinent to the project. However, these specifications shall apply in all particulars insofar as they are applicable to this project.

SECTION A – General Requirements

P21085 - Main Street Pedestrian Crossings Construction

A1.1 Applicable Standard Specifications

The 1994 Edition of the Standard Construction Specifications of the City of Springfield, Oregon, Standard Construction Specifications (including all revisions at date of bid opening), shall apply to this Invitation to Bid and construction contract except as may be modified herein. In the case of discrepancy, unless noted otherwise herein, the more restrictive provisions shall apply.

A1.2 Form of Proposal

REPLACE SECTION 102.02 "FORM OF PROPOSAL" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

"The Proposal and the proposal guarantee in the form of a bid bond, certified check, or cashier's check, shall be enclosed in a sealed, labeled and addressed envelope, as required in the Instructions to Bidders and filed as required therein. The outside of the envelope shall plainly identify: (1) The project name and (2) The bid opening date.

All Proposals must be clearly and distinctly typed or written with ink or indelible pencil.

All Proposals shall be on the form furnished by Owner, and in addition to necessary unit price items and total prices in the column of totals to make a complete Bid, all applicable blanks giving general information must be filled in and the Bids signed by an officer or duly authorized representative of the Bidder. Any statement accompanying and tending to qualify a Bid may cause rejection of such Bid, unless such statement is required, in a Proposal embracing alternate Bids. All bid documents except plans must be returned with the Bid.

Unless otherwise specified, Bidders shall bid on all Bid items included in the Proposal, and the low Bidder shall be determined as noted in Subsection 103.01 AWARD OF CONTRACT. Except as provided herein Proposals which are incomplete or fail to comply to all items required in the Proposal may be rejected."

INSERT IN ITS PLACE THE FOLLOWING:

"ALL BID DOCUMENTS, EXCEPT PLANS, MUST BE RETURNED WITH THE BID. This includes all documents contained in the original bid book, whether they require the completion of information or not, and any addendum that may be issued pertaining to the bid in question. The

only exceptions to this are any plans or drawings, which are not required to be submitted as a part of your Bid.

The Bid Submittal, Bid Bond, Certified Check, or Cashier's Check shall be enclosed in a sealed and labeled envelope. The outside of the envelope shall plainly identify: (1) The project name and project number and (2) The Bid opening date. All Bids must be clearly and distinctly typed or written with ink or indelible pencil. Unless otherwise specified, Bidders shall bid on all Bid items, and must include in their Bid prices the entire cost of each item of work set forth in the Bid.

Sealed Bids shall be addressed to and received at the Office of the Finance Director, City Hall, 225 Fifth St. Springfield, Oregon, 97477 at, or before, the time and date noted on the Invitation to Bidders, after which time the Bids will be publicly opened and read aloud.

All Bids shall be on the form furnished by the City, and in addition to necessary unit price items and total prices in the column of totals to make a complete Bid, all applicable blanks giving general information must be filled in and the Bids signed by an officer or duly authorized representative of the Bidder. The only exceptions to this requirement are the Performance Bond, Payment Bond, Statutory Public Works Bond and the Contract documents which are provided here as a reference. However, if you are awarded the Bid, you will be required to submit fully executed copies of these documents upon request. Any statement accompanying and tending to qualify a Bid may cause rejection of such Bid, unless such statement is required in a Bid embracing alternate Bids.

If, in the opinion of the City, the items or prices in any Bid appear unbalanced, incomplete, or fail to comply with all the terms required, the Bid may be rejected."

A1.3 Proposal Guaranty and Organization

REPLACE SECTION 102.05 "PROPOSAL GUARANTY AND ORGANIZATION" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

"Each Bid must be accompanied by a Bid Bond, cash or a certified or cashier's check upon a bank in good standing, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10% of the total amount of the bid. Such Proposal guaranty shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance Bond and Payment Bond and to execute the Contract within 10 days (Saturday, Sunday and holidays excepted) after receiving said Contract from the City for execution. Bid bonds submitted shall be on the form provided by the City in the Bid document."

INSERT IN ITS PLACE THE FOLLOWING:

"As required by ORS 279C.365(4) each Bid shall be accompanied by a Bid Bond, cash, or a certified or cashier's check written upon a bank in good standing and in a form acceptable to the City, payable to the Finance Director of the City of Springfield, Oregon, in an amount equal to at least 10 percent of the total amount of the Bid. Bid Bonds shall be issued by a surety company registered to issue bonds in the State of Oregon, and utilizing a bond form acceptable to the City. The City will accept AIA Document A310-2010 Bid Bond (sample form enclosed). The Bid Bond may not be altered.

Such Bid Guarantee shall be forfeited and become the property of the City in case the Bidder shall fail or neglect to furnish a satisfactory Performance and/or Payment Bond issued by a viable bond company acceptable to the City as required by ORS 279C.380 and to execute the Contract within ten (10) days (Saturday, Sunday, and holidays excepted) after receiving Contract from the City for execution. For information regarding Performance and Payment Bond requirements see City of Springfield Contract document, Section 5. City Bonding."

A1.4 Addenda to Contract Documents

REPLACE SECTION 102.08 "ADDENDA TO CONTRACT DOCUMENTS" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

"Any addenda issued by the Owner, which may include changes, corrections, additions, interpretations, or information, and issued 48 hours or more before the scheduled closing time for filing the Bids, Saturday, Sunday and legal holidays not included, shall be binding upon the Bidder. Owner shall supply copies of such addenda to all Contractors who have obtained copies of the Contract Documents for the purposes of bidding thereon. Failure of the Contractor to receive or obtain such addenda shall not excuse him from compliance therewith, if he is awarded the Contract."

INSERT IN ITS PLACE THE FOLLOWING:

"Any addenda issued by the City, which may include changes, corrections, additions, interpretations, or information issued 72 hours or more before the scheduled closing time for filing the Bids shall be binding upon the Bidder. Addenda will be posted to the City's website at www.springfield-or.gov/DPW/InvitationBid.htm. The Contractor should check the website frequently for new postings during the open quote period. The City shall make a reasonable effort to notify all individuals, firms, and corporations listed on the Plan Holders List and those individuals that attended the Pre-Bid Meeting and provided contact information on the sign-in sheet when addenda are issued. Failure of the Contractor to receive or obtain such addenda shall not excuse them from compliance, if they are awarded the Contract."

A1.5 Insurance

REPLACE SECTION 107.06 "INSURANCE" OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

The Contractor shall provide and maintain general liability, auto liability, property, and workers' compensation insurance for life of this Contract.

General Liability Insurance

The Contractor shall maintain an ISO Commercial General Liability insurance policy (or an equivalent policy approved by Owner) with combined single limits of at least \$1,000,000 per occurrence for bodily injury, personal injury, and property damage and an aggregate limit of at least \$2,000,000. The policy shall include coverage for contractual liabilities.

Comprehensive Automobile Liability Insurance

The Contractor shall maintain an automobile liability insurance policy with combined single limits of at least \$1,000,000 per occurrence for bodily injury, personal injury, and property damage.

Additional Insured Endorsement

The general and automobile insurance policies specified above shall include endorsements naming as an additional insured "the City of Springfield, its agents, employees and officials all while acting within their official capacity as such."

Property Insurance

Depending on the nature of the construction contemplated under this contract, Owner may require Contractor to provide property insurance. Refer to Special Provisions section of this Contract.

Workers' Compensation Insurance

Contractor, its subcontractors, if any, and all employers working under this agreement are subject employers under the Oregon Workers' Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers.

Contractor is responsible for maintaining workers' compensation insurance for his employees and assuring that his subcontractors, if any, also maintain workers' compensation insurance. Contractor shall defend, indemnify, and hold Owner harmless from any liability for any workers' compensation claims costs, fines, or costs whatsoever arising from Contractor's or his subcontractors' failure to comply with ORS 656.017.

Additional Policies and Special Coverages

Refer to the Special Provisions section of this Contract for additional coverages that may be required.

Certificates of Insurance

Certificates of insurance evidencing all policies required by this Contract shall be delivered to the Owner prior to the commencement of any work. All certificates shall include a 30-day notice of cancellation clause and required additional insured endorsements. The Owner has the right to reject any certificate for unacceptable coverage and/or companies.

INSERT IN ITS PLACE THE FOLLOWING:

"INSURANCE

All insurance shall be approved by the City as to terms, conditions and form prior to beginning work.

Public Liability and Property Damage

The Contractor shall maintain in force for the duration of this Contract a Commercial General Liability insurance policy written on an occurrence basis with limits not less than \$2,000,000 per occurrence and \$3,000,000 in the aggregate. The policy will be endorsed with a "per project" aggregate endorsement. Automobile Liability (owned, non-owned, and hired) insurance with limits not less than \$1,000,000 per occurrence shall be maintained. The City, its employees, officials and agents will be named as Additional Insured's where operations are being conducted related to this Contract on the General and Automobile Liability policies as respects to work or services performed under this agreement to the extent that the death or bodily injury to persons or damage to property arises out of the fault of the Contractor or the fault of the Contractor's agents, representatives or subcontractors. The following statement will appear on the face of the certificate; "The City, its employees, officials and agents are all named as additional insured while acting in their capacity as such." The City's additional insured status for Products and Completed Operations hazards shall extend for at least one year beyond the acceptance of the project. This insurance shall be primary and shall be paid and applied first in its entirety prior to any application of insurance the City may carry on its own.

Workers' Compensation

The Contractor shall provide and maintain Workers' Compensation coverage with limits no less than \$500,000 for it employees, officers, agents, or partners, as required by applicable Workers' Compensation laws. If the Contractor is exempt from this coverage a written statement, signed by the Contractor, explaining the reason for the exemption will be provided to the City prior to commencement of any work.

Course of Construction and/or Installation Floater

The Contractor shall maintain in full force for the duration of this contract an All Risk insurance policy approved by the City as to terms, conditions and form covering the replacement cost of the work during the course of construction. The policy shall include the interests of the City and Architect/Engineer, as applicable, and the first two layers of Subcontractors. The amount of insurance shall equal the completed value of the Contract. The City, at its option, may elect to supply this coverage.

Asbestos Abatement (only applicable to Asbestos Specific Contracts)

If applicable to this Contract, the Contractor shall maintain in full force a Commercial General Liability policy approved by the City as to terms, conditions and form that is Asbestos Specific with a minimum limit of \$2,000,000 per occurrence and \$3,000,000 in the aggregate written on a form that meets the following criteria:

- a. A full occurrence form, or
- b. A limited occurrence form with at least a three-year (3) tail, or
- c. A claims made form with a three-year (3) tail.

Pollution Liability Coverage (only applicable to Pollution Specific Contracts)

If applicable to this Contract, the Contractor shall maintain in full force a Commercial General Liability policy approved by the City as to terms, conditions and form that is Pollution Specific with a minimum limit of \$2,000,000 per occurrence and \$3,000,000 in the aggregate written on a form that meets the following criteria:

- a. A full occurrence form, or
- b. A limited occurrence form with at least a three-year (3) tail, or
- c. A claims made form with a three-year (3) tail.

Professional Liability Coverage (only applicable to Contracts if specified)

If Professional Liability insurance is required, the City must approve the terms, conditions and limits prior to commencement of any work.

Additional Policies and Special Coverages

Refer to the Special Provisions section of this Contract for additional coverages that may be required.

Railroad Protective Liability Coverage

If work being performed under this Contract is near railroad tracks or a railroad right of way and the Railroad requires special insurance (for example: Railroad Protective Liability Coverage) Contractor will be responsible for meeting the Railroad insurance requirements before any work commences. Any insurance required to be purchased by the Railroad is in addition to the insurance required by the City.

Subcontractors

The Contractor shall require all Subcontractors to provide and maintain General Liability, Auto Liability and Workers' Compensation insurance and, as applicable, Professional, Asbestos and Pollution Liability with coverage's equivalent to those required of the General Contractor in this

Contract. The Contractor shall require certificates of insurance from all Subcontractors as evidence of coverage.

Additional Insured Endorsement

All certificates of insurance, with the exception of Professional Liability and Railroad Protective Liability, must include an endorsement which lists the City of Springfield as a named additional insured. The following statement will appear on the face of the certificate; "The City, its employees, officials and agents are all named as additional insured while acting in their capacity as such."

Evidence of Coverage and Notice of Cancellation or Material Change in Coverage

Evidence of the required coverages issued by a company satisfactory of the City shall be provided to the City by way of a certificate of insurance before any work or services commence. A 30-day notice of cancellation or material change in coverage clause shall be included.

If the approved insurance company will not provide this 30 day notice, it shall be the responsibility of the Contractor to provide written notice to the City within two (2) days of the Contractor becoming aware that their coverage has been cancelled or materially changed. The Contractor shall e-mail notification directly to Bob Duey, Finance Director at rduey@springfield-or.gov. Regardless of the circumstances causing the Contractor's insurance coverage to cease or be modified, it is the Contractor's responsibility to notify the City as described above.

Failure to maintain the proper insurance or provide notice of cancellation or material change shall, at the City's option, be grounds for immediate termination of this Contract.

(Contractor initials)

Equipment and Material

The Contractor shall be responsible for any loss, damage, or destruction of its own property, equipment, and materials used in conjunction with the work."

A1.6 Submission of Certified Payroll

REPLACE THE 2ND PARAGRAPH OF SECTION 109.07 OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

Once before the first payment and each time the prevailing wage rates change, and once before final payment is made, Contractor shall supply and file with Owner a statement in writing under oath, in form prescribed by the State Labor Commission and which conforms with ORS Chapter 279, certifying the hourly rate of wages paid each classification of workman not exempt by statute who is employed upon such project and further certifying that no workman employed has been paid less than minimum prevailing wage rate. Each Subcontractor who performed work on the project during the period covered by the payment may be required to file with Owner a similar statement which covers its workmen.

INSERT IN ITS PLACE THE FOLLOWING:

It shall be the responsibility of the Contractor and any subcontractors to submit certified payroll statements to the City as to the wage rates paid to each worker as follows:

As specified in ORS 279C.845, the Contractor or the Contractor's surety and every Subcontractor or the Subcontractor's surety shall file certified statements with the public agency in writing, on a form prescribed by the Commissioner of the Bureau of Labor and Industries, certifying the hourly

rate of wage paid each worker whom the Contractor or the Subcontractor has employed upon the public works, and further certifying that no worker employed upon the public works has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract. The certificate and certified statement shall be verified by the oath of the Contractor or the Contractor's surety or Subcontractor or the Subcontractor's surety that the Contractor or Subcontractor has read the certified statement and certificate and knows the contents thereof and that the same is true to the Contractor or Subcontractor's knowledge. Certified statements (also referred to as certified payroll reports) shall be submitted to the City no later than the 5th day of the following month for which the certified statement and certificate are being presented, regardless of whether any actual work is performed on the project or not. This information must be submitted to the City and also retained by the Contractor and Subcontractor(s) for three years.

Contracting agencies and general contractors are required to withhold 25% of amounts to Contractors if certified payrolls are not filed by the Contractor as required for work performed on projects subject to the prevailing wage rate law. Failure of Contractors to comply with the certified payroll filing requirements of the law, therefore, will result in a negative fiscal impact to those Contractors of up to 25% of their amount owed.

Each worker employed in the performance of this contract, either by the Contractor or Subcontractor or other person doing or contracting to do or contracting for the whole or any part of the work of the contract, must be paid not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838 and 279C.840.

A1.7 Progress Payment

REPLACE THE 6TH PARAGRAPH OF SECTION 109.07 OF THE STANDARD CONSTRUCTION SPECIFICATIONS:

Progress payment will be made by the Owner on a monthly basis no later than the 20th day of the subsequent month of work performed, except that, additional days may be required when a payment is accompanied by one or more of the following: an extension of completion time, change order or extra bill. Payment may be made via use of checks or warrants at the option of the Owner for the amount of the approved estimate, less retainage.

INSERT IN ITS PLACE THE FOLLOWING:

"Progress payment will be made by the City on a monthly basis in the month subsequent to the work being performed, except that additional days may be required when the Contractor fails to submit complete and accurate certified payroll reports which are in compliance with ORS279C.845 when due, or a payment is accompanied by one or more of the following: an extension of completion time, change order or bill. If the Contractor fails to submit acceptable certified payroll reports when due, or one or more of the previously stated exceptions apply, the progress payment may be made up to fourteen (14) days after the date the certified payroll or other required information in question is received by the City.

The scheduled release of payment will depend upon the method of payment selected by the Contractor. If the Contractor elects to receive payment by check, payment will be released no later than the 20th day of the month. If the Contractor elects to receive payment by electronic Automated Clearing House (ACH) transfer, the funds will be transferred no later than the fourth Friday of the month. City will endeavor to honor Contractor's election to receive payment by ACH transfer, however, City reserves the right to make payment via use of check at the sole discretion of the City."

A1.8 Oregon Products

Contractor's attention is directed to the provisions of Oregon Law, ORS 279A.120 regarding the preference for products that have been manufactured or produced in Oregon. Contractor shall use Oregon-produced or manufactured materials with respect to common building materials such as cement, sand, crushed rock, gravel, plaster, etc., and Oregon-manufactured products in all cases where price, fitness, availability and quality are otherwise equal.

A1.9 Salvage and Debris

Unless otherwise indicated on the drawings or in the specifications, all castings, pipe, equipment, demolition debris, fences, trees, shrubs, spoil or any other discarded material or equipment shall become the property of the Contractor and shall be salvaged or disposed of in a manner compliant with applicable Federal, State and local laws and regulations governing disposal of such waste products. No burning of debris or any other discarded material will be permitted. The Contractor shall perform any demolition for the completion of this project and shall salvage and recycle all construction and demolition debris as is feasible and cost effective, in accordance with ORS 279C.510.

A1.10 Brand Name or Equal Specification

Brand Name or Equal Specification means a specification that uses one or more manufacturers' names, makes, catalog numbers or similar identifying characteristics to describe the standard of quality, performance, functionality or other characteristics needed to meet the contracting agency's requirements. The "Equal" product, component or process shall be the same or better than that named in function, performance, reliability, quality and general configuration. Determination of equal in reference to the project design requirements will be made by the Engineer, pursuant to Subsection 106.07. Unless otherwise specified, whenever a manufacturer's name brand or model is mentioned, it is to be understood that the phrase "approved equal" is assumed to follow thereafter, whether it does in fact or not. Such specification authorizes Contractors to offer goods or services that are equivalent or superior to those brands named or described in the specification.

END OF SECTION

SPECIAL PROVISIONS

SECTION B – General Conditions

P21085 - Main Street Pedestrian Crossings Construction

B1. GENERAL

B 1.1 Project Description

The work to be performed under these specifications and drawings consists of the following:

Install two rapid rectangular flashing beacon (RRFB) pedestrian crossings in the vicinity of 41st and 35th Streets on Main Street in Springfield, Oregon.

The above general outline of principal features of the work does not in any way limit the responsibility of the CONTRACTOR(s) to perform all work and furnish all equipment, labor and materials required by the specifications and drawings. The drawings and specifications shall be considered and used together. Anything appearing as a requirement of either shall be accepted as applicable to both even though not so stated therein or shown.

No attempt has been made in these specifications or drawings to segregate work covered by any trade or subcontract under one specification. Such segregation and establishment of subcontract limits will be solely a matter of specific agreement between the CONTRACTOR and its subcontractors and shall not be based upon any inclusion, segregation or arrangement in or of these specifications.

B 1.2 Codes and Standards

All work shall be performed in accordance with the highest standard of practice in the industry and shall be furnished in conformance with all applicable codes, statutes or standards that apply to this work including, but not limited to, any applicable Federal, State or City of Springfield Codes, Standards and Ordinances.

B 1.3 Permits and Licenses

The CONTRACTOR shall comply with all permit conditions, provisions and limitations. Such conditions and requirements are hereby made a part of these specifications, as fully and completely as though the same were fully set forth herein. The CONTRACTOR shall examine the permit(s) granted by any city, county and state agencies. Failure to do so will not relieve the CONTRACTOR from compliance with the requirements stated therein.

B 1.4 Site Investigation and Physical Data

The CONTRACTOR acknowledges that it is satisfied as to the nature and location of the work and the general and local conditions, including but not limited to those bearing upon transportation, disposal, handling and storage of materials, availability of water, roads, groundwater, access to the sites, coordination with other contractors, and conflicts with pipelines, structures and other contractors. Information and data furnished or referred to herein is provided for information only. Any failure by the CONTRACTOR to become acquainted with the available information and existing conditions will not be a basis for relief from successfully performing the work and will not constitute justification for additional compensation.

The CONTRACTOR shall verify the locations and elevations of existing pipelines, structures, grades and utilities, prior to construction. The OWNER assumes no responsibility for any conclusions or interpretations made by the CONTRACTOR on the basis of the information made available.

B 1.5 Work Hour Limitations

All work shall be conducted between the hours of 7:00 a.m. and 6:00 p.m. on weekdays. Requests for variations in work hours shall be made in writing and shall be submitted to the ENGINEER for approval by the city council before any after hour work can occur. Work on Saturdays and Sundays must be approved by the ENGINEER.

See also Section E, Traffic Control, of these Special.

B 1.6 Record Drawings

CONTRACTOR shall maintain at the site one set of specifications, full size drawings, shop drawings, equipment drawings and supplemental drawings which shall be corrected as the work progresses to show all changes made. Drawings shall be available for inspection by the ENGINEER. Upon completion of the contract and prior to final payment, specifications and drawings shall be turned over to the ENGINEER.

B 1.7 Competent Person Designation

CONTRACTOR shall designate a qualified and experienced "competent person" at the site whose duties and responsibilities shall include enforcement of Oregon - OSHA regulations regarding excavations, the prevention of accidents, and the maintenance and supervision of construction site safety precautions and programs.

B 1.8 Vehicle Parking

The vehicles of the CONTRACTOR's and subcontractors' employees shall be parked in accordance with local parking ordinances.

B 1.9 Street Cleanup

Refer to Erosion Control Notes on plan sheets.

B 1.10 Survey Services

The City of Springfield shall provide survey services as required and as described in Section 105.09 and 105.10 of the Standard Construction Specifications

B 1.11 Order of Work

CONTRACTOR shall schedule work such that all construction and restoration is completed before August 31, 2014.

B 1.12 On-Site Sanitary Facilities

The CONTRACTOR shall provide and maintain sanitary facilities for its employees and its subcontractors' employees that will comply with the regulations of the local and State Departments of Health and as directed by the ENGINEER.

B 1.13 Private Roads and Driveways

See City of Springfield’s Standard Construction Specifications section 107.13.

B 1.14 Erosion and Sedimentation Control

Temporary construction site erosion control measures shall be designed and constructed in accordance with the City’s NPDES 1200-CA Permit, copy available from the City. Work shall not commence until the approved erosion and sedimentation control measures are in place. Refer to Erosion and Sediment Control notes on plan sheets.

Dewatering of trenches and other excavation shall be managed in accordance with Section 401.3.04 of the Standard Construction Specifications and the Erosion Control Standard Notes on the Plan Sheets.

B 1.15 Compaction Testing

Refer to City of Springfield’s Standard Construction Specifications section 405.3 for trench compaction. No native backfill shall be used during the construction of this project.

Compaction for base rock in street reconstruction is covered in section 305.3.06.

B 1.16 Utility Properties and Services

In areas where the CONTRACTOR’s operations are adjacent to or near a utility and such operations may cause damage which might result in significant expense, loss and inconvenience, the operations shall be suspended until all arrangements necessary for the protection thereof have been made by the CONTRACTOR.

The CONTRACTOR shall notify all utility offices which may be affected by the construction operation at least 48 hours in advance. Before exposing any utility, the utility having jurisdiction shall grant permission and may oversee the operation. Should service of any utility be interrupted due to the CONTRACTOR’s operation, the proper authority shall be notified immediately. It is of the utmost importance that the CONTRACTOR cooperates with the said authority in restoring the service as promptly as possible. Any costs shall be borne by the CONTRACTOR.

In the event that SUB electrical is needed to suspend their power poles during construction, all costs shall be borne by the CITY. The CONTRACTOR shall notify SUB Electric two working days before the poles must be held.

Utilities which may be impacted include the following:

Electric	Springfield Utility Board (SUB)
Water	Springfield Utility Board (SUB)
Telephone	Century Link
Gas	Northwest Natural
Cable	Comcast
Sanitary Sewer	City of Springfield
Storm Sewer	City of Springfield
Street Lighting	City of Springfield
Traffic Signals	City of Springfield
Highways	ODOT
Fiber Optics	Sprint

B 1.17 Submittals

The CONTRACTOR shall provide shop drawings, schedules and such other drawings as may be necessary for the prosecution of the work in the shop and in the field as required by the contract documents or ENGINEER's instruction.

Within 14 days after award of the contract, the CONTRACTOR shall submit to the ENGINEER a proposed list of manufacturers, suppliers, and subcontractors and a schedule of specific target dates for the submission and return of shop drawings required by the contract documents. Said list and schedule shall be updated and re-submitted when requested by the ENGINEER. All shop drawings for interrelated items shall be scheduled for submission at the same time. Not less than 1 week shall be allocated to each submittal for processing by the ENGINEER. At least six (6) copies of all submittals shall be provided to the ENGINEER. Four copies of all submittals will be kept by the ENGINEER. If the CONTRACTOR requests that more than two (2) copies be returned, then the CONTRACTOR shall submit the appropriate quantity of submittals.

The ENGINEER will review shop drawings to determine compliance with the design concept of the project and return them to the CONTRACTOR within the period established in the shop drawings schedule. The ENGINEER may hold shop drawings in cases where partial submission cannot be reviewed until the complete submission has been received or where shop drawings cannot be reviewed until correlated items affected by them have been received. When such shop drawings are held, the ENGINEER will advise the CONTRACTOR in writing that the shop drawing submitted will not be reviewed until shop drawings for all related items have been received.

The CONTRACTOR shall submit to the ENGINEER, for review, six copies each of such shop drawings, electrical diagrams and catalog information for fabricated items and manufactured items required for construction. The ENGINEER will review the submitted data and shop drawings, and will make notations thereon indicating "No Exception Taken", "Make Corrections Noted", "Rejected", "Revise and Resubmit", or "Submit Specified Item". The ENGINEER will then return two copies of the submitted data and shop drawings to the CONTRACTOR. The ENGINEER's review of submittals and shop drawings is not a check of any dimension or quantity, and will not relieve the CONTRACTOR from responsibility for errors of any sort in the submittals and shop drawings.

When shop drawings and/or submittals are required to be revised or corrected and resubmitted, the CONTRACTOR shall make such revisions and/or corrections and resubmit those items or other materials in the same manner as specified above.

Submitted data shall be sufficient in detail for determination of compliance with the Contract Documents. Color samples for all items for which colors are to be selected shall be submitted at the same time. No equipment or material for which listings, drawings, or descriptive material is required shall be installed until the CONTRACTOR has received review from the ENGINEER.

Regardless of corrections made in or review given to the drawings by the ENGINEER, the CONTRACTOR shall be responsible for the accuracy of such drawings and for their conformity to the drawings and specifications. The CONTRACTOR shall check all submittals before submitting them to the ENGINEER and shall stamp its approval on all copies of the shop drawing documents. Any submittals received by the ENGINEER which do not bear the CONTRACTOR's approval shall be returned without review. If more than two submissions are required to meet the project specifications, the cost of reviewing these additional submissions may be charged directly against the CONTRACTOR and the OWNER may withhold the funds necessary to cover these costs.

Materials and equipment shall be ordered a sufficient time in advance to allow time for reviews, and shall be available on the job when needed. Last minute review will not be given for inferior substitutes for material or equipment.

Required submittals include items listed below. List is provided for CONTRACTOR convenience only and may not be complete in all respects. CONTRACTOR shall provide all submittals required, whether or not specifically listed herein.

- A. Shop Drawings - The CONTRACTOR shall provide shop drawings, schedules and such other drawings as may be necessary for the prosecution of the work in the shop and in the field as required by the contract documents or ENGINEER's instruction.
- B. Erosion Control Plan
- C. Materials Lists
- D. CONTRACTOR Contact Persons
- E. Material Safety Data Sheet
- F. Traffic Control Plan
- G. Miscellaneous Materials and Other Submittals (See Specifications)
- H. Spill Containment and Cleanup Plan

B 1.18 Noise Limitations

All applicable City, County ordinances and State regulations shall be complied with.

END OF SECTION

SPECIAL PROVISIONS

SECTION C – Measurement and Payment

P21085 - Main Street Pedestrian Crossings Construction

C1. GENERAL

Measurement and payment will be on a unit price basis in accordance with the prices set forth in the proposal for individual work items. Where work is required but does not appear as a separate item in the proposal, the cost for that work shall be included and absorbed in the unit prices named in the proposal. CONTRACTOR shall make a careful assessment when preparing the bid.

Construction

<u>Bid Item No.</u>	<u>Description</u>
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0052.	<u>Remove Trees:</u> Measurement and payment for this item is by Diameter Foot (D.F.) at breast height (4.5 feet above base of tree). Common excavation for this work shall be considered incidental for bidding purposes.
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0060.	<u>Mobilization:</u> Payment for mobilization shall be by Lump Sum (L.S.). See section 201 of the Standard Specifications.
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0061.	<u>Temporary Traffic Control:</u> Payment for temporary traffic control, maintenance and protection including all coordination, materials, labor and equipment, as required, will be on a Lump Sum (L.S.) basis, complete. Refer to section 202 of the Standard Specifications and to Section E, Traffic Control, of these Special Provisions and Additional Technical Specifications.
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0063.	<u>Clearing:</u> Refer to section 203 of the Standard Specifications. Payment for clearing, including cutting, removal, transport and disposal of trees of less than 1 foot diameter, stumps, tree limbs, plants, shrubs, vines, planters shall be on a Lump Sum (L.S.) basis, complete. Common excavation for this work shall be considered incidental for bidding purposes.
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0064.	<u>Erosion Control:</u> Refer to Erosion_Control Standard Notes on the Plan Sheets. Payment for Erosion Control is on a Lump Sum (L.S.) basis.
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0066.	<u>Lawn and Landscaping Restoration:</u> Payment for restoration of landscaping to the satisfaction of the Engineer, the City and the property owner will be paid for on a Lump Sum (L.S.) basis. The pay area for surface restoration will be those areas disturbed within the limits of the removal areas, restoration areas and public rights-of-way. The work associated with this item consists of landscaping restoration including restoring and installation of irrigation systems, shrubs, bushes, trees, topsoil, rock and any other items associated to landscaping as called out on the plans within the authorized work areas. All work performed will conform to the requirements set forth in ORS 279C.510. Common excavation and removal for this work shall be considered incidental for bidding purposes.
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0086.	<u>Aggregate Base 3/4 - 0:</u> Payment for aggregate base rock shall be by on a per TON basis. Payment shall be based on the quantities on load tickets collected by the inspector. Common excavation for this work shall be considered incidental for bidding purposes.
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0103.	<u>4-inch Asphalt Pavement Restoration; Level 2, Class C:</u> Payment for asphalt pavement restoration shall be on a per Square Foot (S.F) basis of asphalt pavement installed. This item is
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to be used for final restoration of pavement. Furnishing and installing **temporary** paving or its maintenance during construction is considered to be incidental work and no additional payment will be made. Saw cutting shall be paid for under bid item 0197, Saw-Cutting Existing Surface. No additional payment will be made for surface damaged or otherwise removed outside areas shown for removal on the plans. Common excavation and removal for this work shall be considered incidental for bidding purposes.

All asphalt pavement restoration under this bid item is Level 2, Class C mix.

0116. Reinforced Concrete Curb: Payment for reinforced concrete curb shall be paid for by the Linear Foot (L.F.). See the curb detail on 41st St & Main Street Plan Set sheet 6 for more information.

0121. 8-inch Concrete Driveway: Refer to Standard Drawing 3-22, 3-23, 3-24, 3-25 and 3-26 for Industrial Reinforced Driveway. Measurement and payment is by the Square Foot (S.F.) for 8-inch thick driveway with reinforcing steel complete. Common excavation for this work shall be considered incidental for bidding purposes.

0122. Extruded Concrete Curb: Payment for Extruded Concrete Curb shall be paid for by the Linear Foot (L.F.).

0132. Concrete Curb and Gutters: Measurement and payment for concrete curb and gutters shall be by Linear Foot (L.F.) and shall include rebar dowelling at the connection to existing curb and gutter. Dowelling shall be two, 12-inch long #4 deformed bars drilled 6 inches into the existing gutter pan and secured with epoxy, and shall be incidental to the curb and gutter work. Common excavation for this work shall be considered incidental for bidding purposes.

0133. Concrete 5-inch Non-reinforced Median-Doweled: Pay for this item shall be per Square Foot (S.F.) of concrete 5-inch non-reinforced median-doweled. Included in this bid item are Type 1 – Two Way Yellow Reflective Markers and should be considered incidental to this bid item.

0137. 4-inch Concrete Sidewalk: This item is to be used to replace sidewalks and miscellaneous concrete 4 inches thick. See Standard Drawing 3-12 for City sidewalks. Measurement and payment is by the Square Foot (S.F.). Common excavation for this work shall be considered incidental for bidding purposes.

0141. Handicap Ramps: Handicap ramps shall be paid per Square Foot (S.F.) including ramps, side curbs on ramps, required landings, and ramped walk up to standard sidewalk. Common excavation for this work shall be considered incidental for bidding purposes.

0142. Truncated Domes for Handicap Ramps: Truncated domes on handicap ramps shall be paid per EACH for truncated dome panels 2-feet by 5-feet in size.

0153. Chain Link Fence: Payment will be on a Linear Foot (L.F.) basis for the total length of new chain link fence installed, and will include all labor, materials, equipment and hardware. Refer to the 35th Street Construction Plan Set Sheet 15 of the for more information. CONTRACTOR shall purchase and procure any relative building permits associated with fencing.

0197. Saw-cutting Existing Surface: Measurement and payment for saw-cutting existing surfacing shall include the total sawed length of the initial trench width cuts and the total sawed length of the subsequent tee-cuts as shown on the standard trench detail. Payment for saw-cutting existing surfacing, which includes AC and concrete surfaces, is by the Linear Foot (L.F.). Refer to Standard Drawing 4-16.

0210. Chain Link Gate: Payment will be per EACH basis for new chain link gate installed, and will include all labor, materials, equipment and hardware. Refer to the 35th Street Construction Plan Set Sheet 15 for more information. CONTRACTOR shall purchase and procure any relative building permits associated with fencing.
0246. Install Street Signs: Payment for street signs will be per EACH and will include removal of sign, as needed, and installation of sign, sign base, pole and all appurtenances as per Standard Drawing 5-18.
0271. 10-inch Cleanout Assembly: Payment for furnishing and installing PVC cleanouts, risers, plugs, and connecting couplings shall be on a per EACH basis, complete. See City Standard Drawing 4-4. Common excavation for this work shall be considered incidental for bidding purposes.
0272. Traffic Rated Cleanout Box and Cover: Payment for furnishing and installing traffic rated cast iron frame and cover in a concrete ring shall be on a per EACH basis, complete. Refer to the 35th Street Construction Plan Set Sheet 5 for more information. Common excavation for this work shall be considered incidental for bidding purposes.
0331. Catch Basin: Measurement and payment for new catch basins shall be per EACH and shall include all materials, connectors and labor to install and connect the catch basins. Common excavation and removal of existing catch basins and pipe for this work shall be considered incidental for bidding purposes.
0384. Core Drill and Install 3-inch PVC Weephole: Payment for core drilling and installation of 3-inch PVC weephole shall be paid for as per EACH basis and shall include all labor, materials and equipment to core drill a new weephole.
0503. 3-inch Weep PVC Pipe: Payment for 3-inch weep PVC pipe shall be paid for by Linear Foot (L.F.) and shall include all labor, materials and equipment to install the new weep pipe. See sheet 11 of 41st Street Plan Sheets for more information.
0720. Concrete Wheel Stops: Payment for concrete wheel stops shall be paid for on a per EACH basis and shall include all labor, materials and equipment to install new concrete wheel stops.

Traffic Bid
Item No.

Description

0231. 4-inch Plastic Striping: Payment for plastic markings shall be for all labor, equipment and materials to replace all striping affected by construction activities with new thermoplastic striping, and shall be paid for by Linear Foot (L.F.) basis, complete. Also included in this pay item are all additional new plastic markings. Refer to Section F, Pavement and Surface Restoration, of these Special Provisions and Additional Technical Specifications.
0243. 24-inch Plastic Striping: Payment for plastic markings shall be for all labor, equipment and materials to replace all striping affected by construction activities with new thermoplastic striping, and shall be paid for by Linear Foot (L.F.) basis, complete. Also included in this pay item are all additional new plastic markings. Refer to Section F, Pavement and Surface Restoration, of these Special Provisions and Additional Technical Specifications.
0649. Paint Parking Lot Spaces: Payment for painting parking lot spaces will be for all labor, equipment and materials to paint all parking lot stalls, and shall be paid for on a Linear Foot (L.F.) basis.
0670. Side Mount Rectangular Rapid Flashing Beacon (RRFB) Pole Assembly System Complete: This bid item shall include all labor, materials, equipment, utility company fees and City Building

Department fees necessary to provide a complete, operational side mount RRFB pole assembly pedestrian safety crossing system at the 41st and 35th Main Street pedestrian crossing project locations. All work shall be in accordance with City of Springfield Specifications and Drawings, the project plans, these special provisions, and as directed by the Engineer. Payment for this bid item shall be per EACH side mount pole assembly.

This RRFB system will include, but not be limited too, the equipment, labor, signs, materials, supplies, and installation of all pedestrian poles, foundations and all mounting hardware or appurtenances required to install a complete, operational, RRFB pedestrian crossing warning system. Common excavation for pole footing shall be considered incidental for bidding purposes. RRFB flashing bar(s), radio beacon control(s), pedestrian push-buttons with signs and solar panel(s) shall be pre-purchased and supplied to the CONTRACTOR by the City of Springfield.

0671. Rectangular Rapid Flashing Beacon (RRFB) Pole Assembly System Complete: This bid item shall include all labor, materials, equipment, utility company fees and City Building Department fees necessary to provide a complete, operational RRFB pole assembly pedestrian safety crossing system at the 41st and 35th Main Street pedestrian crossing project locations. All work shall be in accordance with City of Springfield Specifications and Drawings, the project plans, these special provisions, and as directed by the Engineer. Payment for this bid item shall be per EACH pole assembly.

This RRFB system will include, but not be limited too, the equipment, labor, signs, materials, supplies, and installation of all pedestrian poles, foundations and all mounting hardware or appurtenances required to install a complete, operational, RRFB pedestrian crossing warning system. Common excavation for pole footing shall be considered incidental for bidding purposes. RRFB flashing bar(s), radio beacon control(s), pedestrian push-buttons with signs and solar panel(s) shall be pre-purchased and supplied to the CONTRACTOR by the City of Springfield.

0712. ADA Wheelchair Symbol Paint (Stencil): Payment for ADA Wheelchair Symbol Paint (Stencil) will be for all labor, equipment and materials to install ADA Wheelchair Symbol Paint and shall be paid for by Lump Sum (L.S.) basis.

Optional Bid

<u>Item No.</u>	<u>Description</u>
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<u>0153a.</u>	<u>Montage Design Ornamental Fence:</u> Payment for Montage Design Ornamental Fence shall include all labor, equipment, materials and hardware to install a Montage Design Ornamental Fence with 5/8-inch pickets, 2-inch x 2-inch square black posts set in concrete on 8-foot spaces, 6-feet tall x 8-feet long panels attached to post or approved equivalent and shall be paid for by the Linear Foot (L.F.). CONTRACTOR shall purchase and procure any relative building permits associated with fencing.
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END OF SECTION

SPECIAL PROVISIONS

SECTION D – Site Preparation

P21085 - Main Street Pedestrian Crossings Construction

D1. GENERAL

D 1.1 Description

Work includes all demolition and clearing indicated on the plans or required for completion of work specified elsewhere.

D 1.2 Site Conditions

- A. Existing Conditions - CONTRACTOR shall determine extent of work requirements and limitations before proceeding with work.
- B. Protection - Protect existing site improvements, trees and shrubs against cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of roots by stockpiling construction materials, excavated materials, excess foot or vehicular traffic and parking of vehicles within drip line. Provide temporary guards, as necessary, to protect trees and vegetation to be left standing. Repairable damage to trees designated to remain shall be made by a professional tree surgeon approved by the ENGINEER. Cost shall be borne by the CONTRACTOR.
- C. Existing Utilities - Before starting any site work, call One Call for utility locates and to notify utility agencies; disconnect or arrange for disconnection of utilities (if any) affected by required work. Keep all active utilities intact and in continuous operation.

D2. PRODUCTS

D 2.1 Ownership of Existing Materials

All materials, equipment, items and debris involved, occurring or resulting from demolition, clearing and grubbing work shall become the property of the CONTRACTOR at the place of origin except as otherwise indicated.

D 2.2 Wound Paint

Emulsified asphalt formulated for use on damaged plant tissues, as approved by the ENGINEER.

D3. EXECUTION

D 3.1 Workmanship

Perform work in accordance with recognized standard and efficient methods. Operators of equipment shall be conscientious and skilled.

D 3.2 Clearing

- A. Clearing - Remove trees, saplings, snags, stumps, shrubs, brush, vines, grasses, weeds and other vegetative growth within the work area zone except those trees and shrubs noted to remain or as directed by the ENGINEER. Clearing shall be performed in such a manner as to remove all evidence of the presence of vegetative growth from the surface of the project site as required for construction and shall be inclusive of sticks, branches, grasses and weeds, except as otherwise indicated.
- B. Except in areas to be excavated, all holes resulting from the clearing and grubbing operations shall be backfilled and compacted in accordance with the applicable sections of these Specifications.

D 3.3 Preservation and Trimming of Trees, Shrubs and Other Vegetation

The CONTRACTOR shall avoid injury to trees, shrubs, vines, plants, grasses and other vegetation growing outside of the areas to be cleared and grubbed and those trees and shrubs designated to be preserved. Provide protection for roots and limbs over 1-1/2-inch diameter cut during construction operations. Coat the cut faces with emulsified asphalt. Temporarily cover exposed roots with wet burlap to prevent roots from drying out; cover with earth as soon as possible.

D 3.4 Landscaped Areas

When necessary for the completion of the proposed work crosses private property or landscaped areas, the CONTRACTOR shall excavate the topsoil separately and pile it on the opposite side of the trench from the subsoil and shall conduct his work in a manner that will restore original conditions as nearly as practicable. All shrubs or plants shall be balled by experienced workers, carefully handled and watered, and replaced in their original positions without damage. Sod shall be handled in a similar manner. Wherever sod cannot be saved and restored, the ground must be reseeded and cared for until a stand of grass is reestablished. Plants or shrubs killed or destroyed must be paid for by the CONTRACTOR. Unless otherwise specified, any resulting voids shall be thoroughly checked for drainage and backfilled imported material compacted to the density of the adjacent soil. See Section C, Measurement and Payment, and City of Springfield Standard Specifications for lawn and landscaping restoration. All costs incurred by the CONTRACTOR shall be absorbed in the unit prices of his bid unless otherwise specified.

D 3.5 Demolition, Removal and Disposal

Remove from the project site all debris, materials, equipment and items found thereon and materials and debris resulting from the work of demolition except as otherwise indicated. All existing improvements designated on the Plans or specified to be removed including but not limited to structures, pipelines, walls, footings, foundations, slabs, pavements, curbs, fencing and similar structures occurring above, at, or below existing ground surface shall be included in the demolition work.

- A. Removal - All material resulting from demolition and clearing and trimming operations shall be removed from the project site and disposed of in a lawful manner. No burning of debris or any other discarded material will be permitted. Materials placed on property of private property OWNERS shall be by written permission only.
- B. Clean-up - During the time that the work is in progress, the CONTRACTOR shall maintain the site in a neat and orderly condition. All refuse, broken pipe, excess fill material, cribbing and debris shall be removed as soon as practicable. Should the work not be maintained in a satisfactory condition, the OWNER may cause the work to stop until the clean-up of the work has been done to the satisfaction of the ENGINEER. The work will not be considered

complete or the final payment certificate issued until all rubbish, unused material, or equipment shall have been removed and the premises left in a condition satisfactory to the OWNER and the ENGINEER.

END OF SECTION

SPECIAL PROVISIONS

SECTION E – Traffic Control

P21085 - Main Street Pedestrian Crossings Construction

E1. GENERAL

E 1.1 Summary

This item shall include the submission of a Traffic Control Plan (TCP) for work within the public right-of-way during all phases of work. The plan shall show each individual phase of the project with a schedule and map showing placement and description of each temporary traffic control device. The plan shall comply with the current Manual on Uniform Traffic Control Devices (including the Oregon Supplements) and the current Oregon Department of Transportation "Oregon Temporary Traffic Control Handbook." The plan must illustrate changes in lane usage, locations, and types of traffic control devices, and shall encompass advanced warning for all intersecting streets.

E 1.2 Related Specifications

- A. Springfield Standard Construction Specifications
- B. Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways as amended by the Oregon Supplement to the MUTCD.
- C. Oregon Temporary Traffic Control Handbook

E 1.3 Submittals

Traffic Control Plan: Traffic Control Plan(s) (TCP) shall be submitted for all projects in the public right-of-way no later than two (2) weeks before work begins and **shall be submitted using the attached City of Springfield TCP submittal form.** If this plan is not received and approved prior to starting, the ENGINEER reserves the right to shut down all work at the CONTRACTOR'S expense (with a written stop work order to follow within 24 hours) until a plan has been approved and implemented. Any sidewalk closures or detours shall also be noted and submitted with the traffic control plan.

E2. PRODUCTS

E 2.1 Equipment

The devices to be furnished and used by the CONTRACTOR and their placement shall conform to the requirements indicated on the plans. Cases, conditions, and details not covered on the plans shall conform to the applicable provisions of Part IV of the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), including the current Oregon Supplements.

E3. EXECUTION

E 3.1 Temporary Traffic Control

- A. No work shall be permitted until the area has been signed as per the approved Traffic Control Plan. The signing shown on the traffic control plan is the minimum required signing. All

signs, barricades, cones, flaggers, and other such "devices" to warn, safeguard, protect, guide, and inform the public and the workers during the life of the project shall be furnished, constructed, installed, maintained, moved and removed by the CONTRACTOR.

- B. The CONTRACTOR has the obligation to determine how to construct the project and control traffic throughout the area during the construction period with a proper TCP. The CONTRACTOR shall obtain a miscellaneous permit from the Oregon Department of Transportation to perform the work and concurrence with approval of the TCP prior to the commencement of construction activities.
- C. All work areas shall be properly controlled for pedestrian and bicycle safety in addition to standard vehicle traffic and shall comply with the standards stated above. All relevant government agencies shall be notified with relative permits and documentation provided for detours and road work to be performed.
- D. Business access shall be maintained at all times during construction. CONTRACTOR is responsible for coordinating driveway closures and construction activities with individual property owners to ensure the continued viable operations of each business and property during all phases of construction activities.

E 3.2 Signing

- A. Existing Signing: All existing guide signs, warning signs, and regulatory signs shall be maintained at locations readily visible to the traveling public throughout the life of the project, or until new signs replacing them are installed, whichever occurs first.
- B. Construction Signing: All temporary construction signs when not in use shall be either covered or moved so as not to be seen by the traveling public. If construction signing is left in effect when there is no need, the CONTRACTOR has 2 hours after notification to cover or move these signs. If the CONTRACTOR has not taken care of the signs beyond 2 hours of notification, the ENGINEER reserves the right to have City of Springfield employee/s move or cover the signs and bill the CONTRACTOR for time and materials (1 hour minimum). The CONTRACTOR will be required to designate the work area with permanent post mounted signs including Road Work Ahead and End Work signs on all legs approaching the work areas.
- C. Measurement and payment of traffic control devices for temporary business access shall be considered as incidental to the construction of the work and all costs thereof shall be included in the various contract prices in the bid forms.

E 3.3 Day/Time Restrictions

- A. All work shall be conducted between the hours of 7:00 a.m. and 6:00 p.m. on weekdays. Requests for variations in work hours shall be made in writing and shall be submitted to the ENGINEER for approval by the City Council before any after hour work can occur. Work on Saturdays and Sundays must be approved by the ENGINEER.
- B. CONTRACTOR shall comply with ODOT miscellaneous permit requirements for work within ODOT right-of-way (ROW). Daytime lane closures will be allowed providing they allow for a minimum of one thru travel lane at all times and avoid the following conditions.
 - 1. Commute Times: 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, Monday through Friday with any lane closures open by 2 PM.

2. Holidays: If a holiday is within the work period activities with ODOT ROW shall be restricted to noon on the day before the holiday or the holiday weekend to noon the day after the holiday or Sunday midnight of the holiday weekend

Example 1: If the holiday falls on a Monday, the holiday weekend would be from noon on Friday - noon on Tuesday

Example 2: If the Holiday falls on a Thursday, the holiday weekend would be from noon on Wednesday - midnight on Sunday

Example: Rhododendron Festival, football games, etc.- contact local ODOT Manager

END OF SECTION

SPECIAL PROVISIONS

SECTION F – Pavement and Surface Restoration

P21085 – Main Street Pedestrian Crossing Construction

F1. General

1.1 Scope

This section covers the work necessary to furnish and install asphalt concrete pavement restoration and striping for trenches and roadway paving. All work shall conform to the specifications of this Section, Lane County Standards and [City of Springfield Standard Specifications](#) except as modified herein. In the case of discrepancy the more stringent provisions shall apply.

1.2 Reference Standards

A. Refer to the revised 1994 City of Springfield Standard Construction Specifications, Section 310 Asphalt Concrete Pavement, and Section 407 Resurfacing Trench Areas, with 1998 revisions. The following temporary amendments to the City of Springfield Standard Construction Specifications will also apply.

B. Refer to the latest version of the Oregon Department of Transportation (ODOT) Standard Specifications for Construction, Section 00745 – Hot Mixed Asphalt Concrete (HMAC).

C. Refer to the revised 1994 City of Springfield Standard Construction Specifications, Section 317 Permanent Traffic Control, with 1998 revisions and the Plans for pavement marking, striping and legend requirements.

1.3 Submittals

Job mix Certification from Lane County Materials Laboratory.

1.4 HMAC Mix Classifications

Where "Class C" mix is identified on the Plans and in the City of Springfield Standard Construction Specifications, it is understood to be Level 2, 1/2-Inch Dense HMAC, as defined in the ODOT Standard Specifications for Construction.

F2. Products

Replace the City of Springfield Standard Construction Specifications, Sub-Section 310.2.00 MATERIALS with the [ODOT Standard Specifications for Construction](#) Sub-Sections 00745.10 through 00745.30 as modified below.

00745.10 Aggregate - In the paragraph that begins "Provide and stockpile...", remove the words "and RAP aggregates".

Add the following paragraph:

Production crushing and stockpiling of aggregate for use in HMAC will be at the sole discretion of the CONTRACTOR in accordance to Section 00165 of the 2008 edition of the Oregon Standard Specifications for Construction.

00745.10(a-1) Separated Sizes – Delete the third sentence from the first paragraph.

00745.10(a-2) Scalping – Delete this subsection.

00745.10(b-2) Separated Sizes – Delete this subsection.

00745.10(b-3) Grading – Delete all but the first sentence of this subsection.

00745.10(c-2) Separated Sizes – Delete this subsection.

00745.10(c-3) Grading – Delete all but the first sentence of this subsection.

00745.10(c-4) Combination of Fine Aggregate for Testing – Delete this subsection.

00745.10(f) Aggregate Production Quality Control – Delete the second sentence.

00745.10(g) Pre-produced Aggregate – Replace this subsection, except for the subsection number and title, with the following:

The material shall meet the requirements of 00745.10.

00745.11(a) Asphalt Cement – Add the following:

Use PG 70-22 grade asphalt for dense graded HMAC, or grade approved by ENGINEER. Use PG 64-22ER for open graded HMAC, or grade approved by ENGINEER.

In addition to the requirements in the ODOT Standard Specifications for Asphalt Materials, the PG 64-22ER grade for HMAC shall meet the following limit when tested according to AASHTO T 301 “Standard Method of Test for Elastic Recovery Test of Asphalt Materials by Means of Duclilometer”. The samples will be conditioned per AASHTO T 240 “Standard Method of Test for Effect of Heat and Air on a Moving Film of Asphalt (RTFOT) prior to testing per AASHTO T 301. The specified Temperature for section 3.3 of the AASHTO T 301 procedure shall be 77°F.

% Elastic Recovery – **50** minimum.

00745.11(b) Asphalt Cement Additives - Replace this subsection, except for the subsection number and title, with the following:

Use standard recognized asphalt cement additive products of known value for the intended purpose and approved for use on the basis of laboratory tests. Asphalt cement additives shall have no deleterious effect on the asphalt material and be completely miscible. Do not use silicones as an additive. Add the following asphalt cement additives when required by the JMF(Job Mix Formula):

Anti-stripping asphalt cement additives to prevent stripping or separation of asphalt coatings from aggregates to satisfy the TSR (Tensile Strength Ratio) specified in 00745.13.

Asphalt cement admixtures used to aid in the mixing or use of asphalt mixes or for experimental purposes.

00745.13(a) Contractor Provided JMF – Delete first paragraph and add the following:

A CMDT will prepare, sign and submit a JMF to the ENGINEER for each mixture according to ODOT Contractor Mix Design Guidelines for Asphalt Concrete. The ENGINEER will verify the performance characteristics of all CONTRACTOR provided JMF. Submit material samples for verification testing no later than March 1 of the calendar year of the anticipated use of HMAC mixture. Furnish representative samples of materials to be used in the JMF verification testing as follows:

<u>Materials</u>	<u>Amount</u>
New Coarse Aggregate	100 lbs *
New Fine Aggregate	100 lbs
Reclaimed Asphalt Concrete	45 lbs
Hydrated Lime	5 lbs
Mineral Filler	5 lbs
Asphalt Cement (without antistrip)	3 gal in 1-qt cans
Antistrip Additive	1 qt

*If coarse or fine aggregate is in multiple stockpiles, divide the submittal evenly between stockpiles.

Verification testing will use Gyrotory compaction methods.

00745.13(b) JMF Requirements – Add the following:

A request for an adjustment to the JMF targets may be made to the ENGINEER by the CONTRACTOR's CAT-II. The requested change will be reviewed and documented by the ENGINEER. If acceptable, a revised JMF will be allowed. Clearly document the subplot test for which the adjusted targets are in effect.

Adjustments for gradation shall not exceed the tolerances specified below. Adjustments for AC content shall be within 0.5% of the original JMF, but shall not exceed the requirements of 00745.03. Regardless of these tolerances, the adjusted JMF shall be within the mixture specification control points of 00745.12. If a redesign of the mixture becomes necessary, submit a new JMF according to the requirements of the Specifications.

<u>Aggregate Passing Sieve Size</u>	<u>(%) From JMF</u>
No. 4	+/- 2
No. 8	+/- 1
No. 30	+/- 1
No. 200	+/- 0.5

Field adjustments will not be made unless the change produces material of equal or better quality. Adjustments beyond these limits will require development of a new JMF according to 00745.13(b). The adjusted JMF, plus or minus the allowed tolerances, shall be within the broadband limits specified in 00745.12(b).

00745.13(c) Performance Test – Delete this subsection.

00745.14 Tolerances and Limits - Replace the tolerance list with the following tolerance list:

Gradation Constituent	Dense-Graded HMAC Type				Open-Graded HMAC Type		
	1"	3/4"	1/2"	3/8"	3/4"	1/2"	ATPB
1 1/2"	JMF ± 5%*						
1"	90 - 100%	JMF ± 5%*			99 - 100%		99 - 100%
3/4"	JMF ± 5%	90 - 100%	JMF ± 5%*		85 - 96%	99 - 100%	85 - 95%
1/2"	JMF ± 5%	JMF ± 5%	90 - 100%	JMF ± 5%*	55 - 71%	90 - 98%	35 - 68%
3/8"***	-	-	-	90 - 100%	-	-	-
No. 4	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%	JMF ± 5%
No. 8	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%	JMF ± 4%
No. 16**	-	-	-	-	-	-	-

No. 30	JMF ± 4%	-					
No. 50**	-	-	-	-	-	-	-
No. 100**	-	-	-	-	-	-	-
No. 200	JMF ± 2.0%						

* Maximum not to exceed 100%

** Report percent passing sieve when no tolerance is listed

In the "Constituent of Mixture" table; Moisture content at time of discharge test, delete "WAQTC TM6" and replace with "AASHTO T329; or AASHTO T255, Microwave method".

00745.16 HMAC Production QC/QA – Delete subsections (a) and (b) in their entirety and add the following:

Quality control sampling and testing by the CONTRACTOR, as defined by the Standard Specifications, is suggested but not required. The CONTRACTOR is advised to perform sufficient testing to insure compliance to the material requirements.

00745.16(c) Quality Assurance and Acceptance – Replace this subsection, except for the subsection number and title, with the following:

The ENGINEER, according to Section 00165.40 and the following, will perform acceptance sampling and testing of HMAC:

(1) Random Sampling – Random sampling of HMAC shall be performed by Lane County according to the following:

(a) Grade Samples – A minimum of one grade sample from each lot or subplot after placing and before rolling. Samples will not be taken within 1 foot of the edge of the panel. Samples will be obtained according to AASHTO T168.

(b) Plant Samples – A minimum of one sample from each lot or subplot from the discharge of the paving plant mixer and before placing into a storage silo or hopper when:

- The nominal compacted thickness as shown on the typical section of the plans, for an entire pavement panel will be less than 1 1/2 inches.
- The paving panel being placed is less than 8 feet wide.
- Paving miscellaneous areas, such as driveways, approaches, guardrail flares, and areas of restricted width or limited length.
- Paving temporary surfacing or leveling courses.
- Paving open-graded mixtures.

(c) Moisture Samples – Moisture samples will be taken from the discharge of the paving plant mixer a minimum once each day, or as directed.

(d) Partial Sublots – Each day, at the end of the production shift, regardless of the project size, the quantity exceeding the 750-ton subplot increment by 250 ton, or less, shall be represented by the previous 750-ton subplot. If the quantity exceeds the 750-ton subplot increment by more than 250 ton, the quantity shall be considered an independent subplot.

(2) Testing – HMAC testing shall be performed by the ENGINEER according to the following:

(a) Asphalt Cement Content – Test according to "Asphalt Content by Ignition Method, Lane County Procedure" (a modified AASHTO T308). The test procedure is available from the Project Manager.

(b) Aggregate Gradation – Test according to AASHTO T27 test method.

(c) Moisture Content – Test according to AASHTO T255 test method, Microwave Method.

(d) Compaction – Acceptance testing for compaction will be according to Section 00745.49. For any failing subplot of pavement, the CONTRACTOR may request one new backup compaction test on the same day. New nuclear gauge tests will be obtained at new randomly selected sites. The average of these five new nuclear density tests will constitute the backup in-place density of the subplot. The higher of the original and backup test results will prevail.

The ENGINEER may test any area that appears defective in compaction and require further compaction or corrective action on any area that does not meet specifications.

(e) Backup Testing – If the gradation test result of the sieve analysis varies from the JMF by 1.5 times or more from the tolerance limits specified in 00745.14, a backup sample from the random grade sample will be tested. The test result, which yields the highest CPF for that subplot, will be used. If the original and backup test results yield the same CPF, the original test results will be used.

(f) Minimum Pay Factor for Each Constituent – Stop production when the pay factor for any constituent with a weighting factor greater than 1 falls below 0.75. Resume production when the ENGINEER accepts a plan for correction.

00745.17 Small Quantity Acceptance – Replace this subsection, except for the subsection number and title, with the following:

When the quantity of HMAC on a Project is less than 1,750 tons or less than three test results are obtained, the ENGINEER may accept the HMAC according to Section 00745.16(c) of these Special Provisions. The test results will be evaluated in accordance to 00745.95(a) of these Special Provisions.

00745.17(b) Outside Specifications Limits – Replace the first sentence with the following:
If a subplot sample test result for any constituent is 1.5 times or more outside the specification limit, the ENGINEER will have the backup sample tested.

00745.17(b-2) Backup Out of Specification – Replace this subsection, except for the subsection number and title, with the following:

If the backup sample test results are out of specification, an adjustment will be calculated according to 00745.95(a-1). The test results that produce the lowest Cumulative Weighted Deviation will be used in the price adjustment calculation.

00745.17(b-3) In Place Samples – Delete this subsection:

00745.24(a) Steel-Wheeled Rollers - Replace this subsection with the following subsection:

(a) Steel-Wheeled Rollers - Provide steel-wheeled rollers with a minimum gross static weight as follows:

	Level 1 and Level 2	Level 3	Level 4
Breakdown and Intermediate	8 ton	10 ton	12 ton
Finish	6 ton	8 ton	10 ton

F3. Execution

Replace the City of Springfield Standard Construction Specifications, Sub-Section 310.3.00 CONSTRUCTION with the ODOT Standard Specifications for Construction Sub-Sections 00745.40 through 00745.93 as modified below.

00745.40 Season and Temperature Limitations In the table, for Surface Temperature of Dense Graded Mixes 2 inches to 2 1/2 inches, replace "50 °F" with 40 °F".

00745.46 Control of Line and Grade - Add the following paragraphs to the end of this subsection:

The CONTRACTOR shall establish references at reasonable intervals for line and grade control of placement operations for the following:

- Before placing each leveling lift.
- Before placing the top base course for new construction.

If grade controls are established, line and grade for the top base course of new construction and top leveling lift shall be within 1/2 inch of existing line and grade.

00745.48(c) Placing – Add the following:

The ENGINEER will establish leveling locations and paving needs.

Paving equipment used shall be sized appropriately for the size roads listed in the contract. Equipment that is either undersize or oversize for the intended work, which will not produce satisfactory workmanship, will be replaced with appropriately sized equipment.

Change the reference in the last paragraph from 00745.16(b-1) to 00745.13(b) of these Special Provisions.

00745.49 Compaction, QC – Add the following:

The QC program as described in this section of the Standard Specifications will not be used. The ENGINEER will perform acceptance compaction testing using procedures as modified or added in these Special Provisions. The CONTRACTOR is responsible to perform sufficient compaction testing to insure minimum compaction requirements have been attained.

00745.49(b) Normal Pavement (Nominal Thickness 2 inch or Greater) – Replace the subsection heading with the following:

00745.49(b) Normal Pavement (Nominal Thickness 1 1/2 inch or Greater)

00745.49(b-1) General - In the paragraph that begins "Compliance with the density...", replace the sentence that begins "Use the MAMD method..." with the following sentence:

Use the MAMD method of compaction measurement.

Replace the paragraph that begins "For Level 3 and Level 4..." with the following two paragraphs:

For Level 2, Level 3, and Level 4 mixes, construct a control strip at the beginning of work on each JMF on the project according to ODOT TM306. The purpose of the control strip is to determine the maximum density that can be achieved for the JMF, paving conditions, and equipment on the project. Additional control strips are necessary when there is a change in compaction equipment or when JMF targets are adjusted according to 00745.16(b-1-a). The ENGINEER may waive the control strip for irregular areas or areas too small to establish a reasonable roller pattern.

Stop paving if three consecutive control strips fail to achieve the specified density. Take all actions necessary to resolve compaction problems. Do not resume paving until allowed by the ENGINEER.

Add the following to the third paragraph:

Pneumatic tired roller will be required on Level 2 HMAC, unless waived by the ENGINEER.

00745.49(b-2) Random Testing – Delete reference to “QC” in the first sentence.

00745.49(b-2-a) Testing – Add the following:

Sanding of test locations will not be required.

00745.49(b-2-b) Core Correlations of Nuclear Gauge Readings – Replace this subsection, except for the subsection number and title, with the following:

Core correlation of the nuclear gauge readings is not required. If core correlations are requested, and approved, determine the core correlation factors according to WAQTC TM8 and ODOT TM327. Cut the required cores and patch the core holes with dense graded HMAC.

The party requesting core correlations will pay the costs of coring and lab testing of cores. The costs of nuclear gauge testing performed by each party will be paid by each party.

00745.49(b-3) Moving Average Maximum Density (MAMD) Method - Replace the MAMD list with the following list:

Course of Construction	HMAC
First HMAC lift less than 3 inches placed on aggregate base	91.0 *
All other	92.0

* If any part of the width of a lift at a station requires 91.0%, then the entire width of that lift at that station shall be 91.0%

Delete the last paragraph of this subsection.

00745.49(b-4) Control Strip Method - Delete this subsection.

00745.49(b-5) Test Results – Renumber this subsection to b-4, delete the sentence and replace with the following:

The ENGINEER will provide density test results to the CONTRACTOR by the middle of the following work shift.

00745.49(c) Thin Pavement – Replace this subsection, except for the subsection number and title, with the following:

Compaction to a specified density will not be required for leveling, patches, or where the nominal compacted thickness of a course of dense graded mixtures will be less than 1 ½ inches. Perform breakdown and intermediate rolling until the entire surface has been compacted by at least four coverages of the roller(s). Perform additional coverages, as directed, to obtain finish rolling of the HMAC. In areas where pre-leveling is greater than 1 ½ inches, the HMAC shall be compacted to a minimum of 91.0 of the JMF’s most recent Maximum Density result.

00745.70 Pavement Smoothness - Replace this subsection with the following subsection:

00745.70 Pavement Smoothness - Construct the pavement wearing surface of travel lanes to a profile that does not deviate from longitudinal and transverse smoothness more than the specified limits of 00745.73.

Perform smoothness testing under the supervision of the ENGINEER with equipment furnished and operated by the CONTRACTOR at the CONTRACTOR's expense. Complete all required smoothness testing no later than seven calendar days following final completion of all travel lane paving on the Project. The CONTRACTOR accepts the risk that the smoothness may be affected by exposure to traffic between the date the travel lanes are paved and the date the smoothness testing is completed. If the CONTRACTOR elects to perform smoothness measurements on a day other than the day the pavement is placed, additional traffic control required for smoothness measurement, and not required for other work, will be at the CONTRACTOR's expense.

Add the following subsection:

00745.72 Smoothness Testing Equipment - Furnish all equipment and supplies for determining smoothness.

(a) **Straightedge** - Provide one 12 foot straightedge.

(b) **Rolling Straightedge** – Provide one 12 foot rolling straightedge capable of measuring, on an exaggerated scale, deviations in the paved surface, at the center of the scale, to accuracy of 0.002 foot or less. If requested by the ENGINEER, the CONTRACTOR shall demonstrate the accuracy of the measuring device by setting the equipment up on a flat surface and passing the sensing mechanism over an item of known height. In all cases, the equipment shall be subject to acceptance by the ENGINEER.

Add the following subsection:

00745.73 Smoothness Testing and Surface Tolerances - Test according to the following:

(a) **General** - Test the base and wearing courses with a 12 foot straightedge and a 12 foot rolling straightedge as directed.

(b) **Base Course Surface Test:**

(1) **Transverse** - Test with the 12 foot straightedge perpendicular to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(2) **Longitudinal** - Test with the 12 foot rolling straightedge parallel to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(c) **Wearing Course Surface Test:**

(1) **Transverse** - Test with the 12 foot straightedge perpendicular to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(2) **Longitudinal** – Test with the 12 foot rolling straightedge over the full width of travel lanes for the entire length of the project, or as directed by the ENGINEER. The pavement surface shall not vary by more than 0.015 foot.

(3) **Transverse Joints** - Test with the 12 foot straightedge parallel to the centerline, as directed. The pavement surface shall not vary by more than 0.02 foot.

(d) Utility Appurtenances - If the CONTRACTOR is required to construct or adjust utility appurtenances, such as manhole covers and valve boxes, the pavement surface shall not vary by more than 0.02 foot.

(e) Shoulders and Paved Medians - Test the base and wearing course with the 12 foot straightedge parallel to and perpendicular to the centerline for shoulders and paved medians. The pavement surface shall not vary by more than 0.02 foot.

00745.75 Correction of Pavement Roughness - Replace this subsection with the following subsection:

00745.75 Correction of Pavement Roughness - Should testing described in 00745.73 show the pavement does not conform to the prescribed limits of deviation, the following shall apply:

(a) General - The CONTRACTOR, under the supervision of the ENGINEER, is responsible for locating areas that require corrective work.

(b) Base Course - If the requirements of 00745.73(b) are not met, correct according to one of the following and retest.

(1) Cold Plane Removal - Profile with equipment meeting the requirements of Section 00620.20 to a maximum depth of 0.03 foot.

(2) Grinder - Profile with abrasive grinder(s), equipped with a cutting head comprised of multiple diamond blades to a maximum depth of 0.03 foot.

(c) Wearing Course - After the CONTRACTOR has located and staked all individual deviations exceeding 0.02 foot, the ENGINEER and the CONTRACTOR shall meet at a mutually agreed upon time and drive the Project together. Each deviation will be evaluated during the drivethrough to determine what corrective work will be required. Disagreements will be resolved by the ENGINEER.

Correct all individual deviations identified for corrective work during the drive-through and any transverse joint that exceeds the requirements of 00745.73(c-3) by one of the methods listed below to the specified limits.

(1) Remove and Replace - Remove and replace the wearing surface lift. Removal and replacement is required when in the opinion of the ENGINEER a durable long-term repair of the defect cannot be accomplished by conventional means.

(2) Grind - Profile with abrasive grinder(s) equipped with a cutting head comprised of multiple diamond blades to a maximum depth of 0.3 inch and apply an emulsion fog seal as directed.

Under the observation of the ENGINEER, retest each location requiring corrective work according to 00745.73 with a 12 foot rolling straightedge to verify that the deviation has been corrected to within the 0.02 foot tolerance. Perform all corrective work and surface tolerance testing at the CONTRACTOR's expense, including traffic control.

(d) Utility Appurtenances - If the requirements of 00745.73(d) are not met, the CONTRACTOR shall perform sawcutting, removal and readjustment of the utility appurtenance(s) to the required elevation(s) and/or perform other corrective measures to the satisfaction of the ENGINEER.

(e) Time Limit - Complete correction of all surface roughness within 14 calendar days following notification, unless otherwise directed.

00745.80 Measurement – Delete this section and add the following:

The accepted quantities of HMAC will be measured by the ton according to Section 00190. No separate measure will be made for the asphalt cement used in the asphalt concrete mixture. No deduction will be made for lime or any other additive used in the mixture.

The quantities of HMAC shown in the Schedule of Items were computed on the basis of aggregates having a Specific Gravity of 2.65. The provisions of 00140.20 and 00195.20 will apply.

00745.90 Payment - Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for asphalt cement used in the mixture.

00745.93 Other Items – Add to the fifth bulleted item:

No payment will be made for anti-stripping additives required to supplement the JMF to attain minimum mixture performance characteristics. If anti-stripping additives are required by the contract, payment will be at the unit bid price included in the schedule of items.

A. A PRE-PAVING MEETING SHALL BE REQUIRED 48 HOURS PRIOR TO PAVING.

B. Trip tickets shall normally be given to the ENGINEER by the end of the day delivery is made, but in no event shall they be given to the ENGINEER later than 12 noon the following calendar day (Saturday, Sunday, and legal holidays excluded). Trip tickets will be considered as valid only when received by the ENGINEER in accordance with this special provision. All other requirements of the above referenced sub-sections shall apply.

C. GEOTEXTILE INSTALLATION – In the event that the City's wet weather construction standard is invoked on this project, refer to Standard Construction Specification 301.1.01 General, the use of geotextile fabric and an additional eight (8) inches of rock substructure will be required. Where specified, geotextile shall be woven and conform to Standard Construction Specification for Subgrade Geotextile. CONTRACTOR shall comply with Standard Construction Specification 308, Geotextile Installation. Payment shall be incidental to the pavement Bid Items.

F4. Striping

All striping shall be completed with using City approved thermoplastic material. CONTRACTOR shall replace all striping removed or damaged through construction activities. See sections 00850 through 00867 of ODOT's 2008 Oregon Standard Specifications for Construction for more information.

Use the following Materials. Materials for other uses not specified in this paragraph shall be from the QPL.

- A. Pedestrian Crossings: Preformed Thermoplastic Type B, Pre-Mark Vizigrip (Non-Slip)", 125 mil, by Ennis-Flint or approved equivalent.
- B. Skip Lines and Longitudinal Lines: Method B Thermoplastic, "Permaline" with SWARCO beads 3130, by Ennis-Flint or approved equivalent.

Note: It is the CONTRACTOR's responsibility to verify all existing striping locations prior to construction.

END OF SECTION

SPECIAL PROVISIONS

SECTION G – Rapid Rectangular Flashing Beacon (RRFB) Installation

P21085 - Main Street Pedestrian Crossings Construction

G1. GENERAL

G 1.1 Scope

This RRFB system will include, but not be limited too, the equipment, labor, materials, supplies, and installation of all pedestrian poles, foundations, signs, all wiring within the RRFB beacon pole, and all mounting hardware or appurtenances required to install a complete, operational, RRFB pedestrian crossing warning system. RRFB flashing bar(s), radio beacon control(s), pedestrian push-buttons with signs and solar panel(s) shall be pre-purchased and supplied to the CONTRACTOR by the City of Springfield. The CONTRACTOR shall review and verify the materials supplied by the City of Springfield and shall supply all additional materials to complete a functional system. See Intermountain Traffic LLC Quote following this section. Upon completion of the RRFB system construction, the CONTRACTOR shall be available to assist City personnel with the testing, configuration, and field operation of the RRFB system.

G 1.2 Equipment

All RRFB equipment supplied by the City of Springfield shall be in accordance with the 2008 ODOT Standard Specifications for Construction and all applicable ODOT standard drawings and any updated revisions to these documents.

All equipment shall be installed in compliance with the manufacturer's instructions or at the direction of the ENGINEER. Prior to mounting the RRFB device and signs, the foundation and pole shall be installed, the ENGINEER shall be notified, and the ENGINEER shall direct the CONTRACTOR with regard to mounting positions and direction of the RRFB flasher unit and accompanying signs.

G 1.2 Pole Foundations

All RRFB pole foundations shall comply with ODOT Standard Drawing TM457 (Pedestrian Pole) and construction plans. All materials shall conform to ODOT standards for Traffic Signal Materials (Section 02925) and Electrical Systems (Section 00960). Each delivered batch of concrete that is used in the construction of the project shall have three (3) concrete cylinders retained for testing by the Lane County Testing Facility. All foundations shall be located by the ENGINEER prior to CONTRACTOR excavation and construction. Use care to prevent undermining existing sidewalks and curbs. Excavation for foundations shall be considered as part of the RRFB pole assembly bid items. Common excavation for this work shall be considered incidental for bidding purposes.

END OF SECTION



Quote

NEVADA OFFICE: COLORADO OFFICE:
 PO Box 11159 6379 Rockwell Court
 Reno, NV 89510 Loveland, CO 80538

Date 5/16/2014
Quote # 140516-3
Terms Net 30
Delivery 30 Days ARO
FOB PPA
Project

Michael Liebler, PE
City of Springfield, Public Works
225 Fifth Street
Springfield OR 97477

Quote Valid for 60 Days

Qty	Description	Unit Cost	Total
4	ELTEC Solar powered pedestrian crossings using 2 RRFB for 1000 Crossings per day System includes: 1 x 1-compartment slim line cabinet with Eltec FS2 flasher, Prostar 15 controller, back panel, and associated wiring 1 x 80-watt solar panel with post top mounting rack for 4" pole 1 x 55-ampere hour AGM battery 1 x countdown timer 1 x wireless radio 1 x Eltec federal yellow 2 RRFB light bar with 2 RRFB lights 1 x Polara XAV2 APS-ADA pushbutton with pushbutton station	3,696.50	14,786.00
1	Estimated Freight	250.00	250.00

Total \$15,036.00

35th PEDESTRIAN CROSSING

PROJECT DESCRIPTION

This project will primarily include the construction of a pedestrian crossing near 35th and Main Streets.

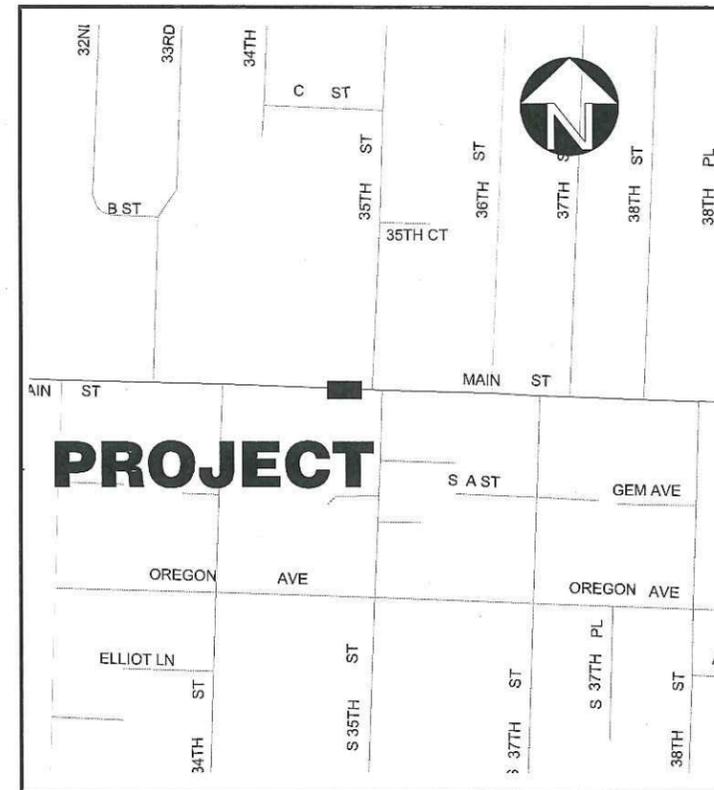
ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FM	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
ABAN	ABANDON(ED)	FT	FOOT	RD	ROAD
ADA	AMERICANS W/ DISABILITIES ACT	FTG	FITTING	RDCR	REDUCER
AL	ALUMINUM	G	GAS	REINF	REINFORCE(DNG)(MENT)
APPROX	APPROXIMATELY	GALV	GALVANIZED	RESTR	RESTRAINED
APPVD	APPROVED	GR	GRADE	REQ'D	REQUIRED
ASSY	ASSEMBLY	GRVL	GRAVEL	ROW	RIGHT OF WAY
ARV	AIR RELEASE VALVE	GV	GATE VALVE	SCHED	SCHEDULE
BLDG	BUILDING	HORIZ	HORIZONTAL	SD	STORM DRAIN
BM	BENCHMARK	HWY	HIGHWAY	SERV	SERVICE
BO	BLOWOFF	HP	HIGH PRESSURE	SHT(S)	SHEET(S)
BTM	BOTTOM	ID	INSIDE DIAMETER	SL	SLOPE
CL	CENTER LINE	IE	INVERT ELEVATION	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INSTL	INSTALL	SPL	SPOOL
CCP	CONCRETE CULVERT PIPE	LDAP	LAND & DRAINAGE ALTERATION PERMIT	SQ	SQUARE
CI	CAST IRON	LAT	LATERAL	SQ FT	SQUARE FOOT
CG	CURB/GUTTER	LF	LINEAL FEET	SS	SANITARY SEWER
CL	CLASS	LP	LOW PRESSURE	SST	STAINLESS STEEL
CO	CLEANOUT	MATL(S)	MATERIAL(S)	ST	STREET
CONC/CON	CONCRETE	MAX	MAXIMUM	STA	STATION
CONST	CONSTRUCTION	MFR(S)	MANUFACTURER(S)	STL	STEEL
COP	COPPER	MH(S)	MANHOLE(S)	STD	STANDARD
COS	CITY OF SPRINGFIELD	MHSD	MANHOLE STORM DRAIN	SUB	SPRINGFIELD UTILITY BOARD
CPLG	COUPLING	MHSS	MANHOLE SANITARY SEWER	SAW	SIDEWALK
CR	CRUSHED ROCK	MIN	MINIMUM	TEL/T	TELEPHONE
CV	CHECK VALVE	MJ	MECHANICAL JOINT	TB	THRUST BLOCK
CY	CUBIC YARD	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	TEMP	TEMPORARY
D	DRAIN	NTS	NOT TO SCALE	THK	THICK
DET	DETAIL	OC	ON CENTER	THRU	THROUGH
DL	DUCTILE IRON	OD	OUTSIDE DIAMETER	TV	TELEVISION
DIA / Ø	DIAMETER	ODOT	OREGON DEPARTMENT OF TRANSPORTATION	TYP	TYPICAL
DR	DRIVE	OVHD	OVERHEAD UTILITY	VERT	VERTICAL(LY)
DWG	DRAWING	P	POWER	W	WATER
DWY	DRIVEWAY	PCC	PORTLAND CEMENT CONCRETE	W/	WITH
EA	EACH	PE	PLAIN END	W/IN	WITHIN
EL	ELEVATION	PERM	PERMANENT	W/O	WITHOUT
ELEC/E	ELECTRICAL	P/L	PROPERTY LINE	WM	WATER METER
EOP	EDGE OF PAVEMENT	POLY	POLYETHYLENE		
EQ	EQUAL	PROP	PROPOSED		
EQUIP	EQUIPMENT	PS	PUMP STATION		
ESMT	EASEMENT	PUGD	UNDERGROUND POWER		
EX	EXISTING	PV	PLUG VALVE		
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE		
PRESS	PRESSURE	PVMT	PAVEMENT		
FAB	FABRICATE				
FD	FLOOR DRAIN				
FH	FIREHYDRANT				
FIN GR	FINISHED GRADE				
FL	FLOW LINE				
FLG	FLANGE(D)				

LEGEND

RIGHT OF WAY (ROW) LINE	PL
GAS LINE	FL
FIBER OPTIC (NO. OF CABLES)	FO
WATER LINE	WT
POWER (ELECTRIC)	PT
STORM SEWER (STATE)	ST
RIGHT OF WAY	ST
SANITARY SEWER (EXISTING)	WW
STORM SEWER (NEW)	SW
SANITARY SEWER (NEW)	SW
GAS VALVE	GV
WATER VALVE	WV
WATER LINE	WT
WATER METER	WM
UTILITY BOX	UB
POWER POLE/LIGHT	PP
CATCH BASIN EXISTING	CB
CURB INLET NEW	CI
STORM MANHOLE (NEW)	SD
SANITARY MANHOLE (EXISTING)	SS
SANITARY MANHOLE (NEW)	SS
STORM AREA DRAIN (NEW)	SAD
MAIL BOX	MB
UTILITY POLE	UP

VICINITY MAP



PROJECT

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No.	Revision/Issue	Date
DRAWN: RBK		

NOTE:

UTILITY LOCATIONS ARE APPROXIMATE
DO NOT
SCALE OR LOCATE UTILITY LINES OR MAINS
FROM THESE DRAWINGS
CALL FOR UTILITY LOCATES
811 or (1-800-332-2344)

THE CONTRACTOR SHALL BE RESPONSIBLE
FOR DETERMINING UTILITY LOCATIONS PRIOR TO
BEGINNING OF CONSTRUCTION.
THESE PLANS MAY NOT SHOW ALL UTILITIES OR
THE CORRECT LOCATIONS.

P21085 MAIN STREET PED CROSSING 35th & MAIN STREETS

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 796-1021
INTERNET www.cityofspringfield.or.us



EXPIRES 12-31-15

SHEET

1

GENERAL CONSTRUCTION NOTES:

GENERAL CONSTRUCTION NOTES

- A. ALL MATERIALS AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL MEET CURRENT CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS "STANDARD CONSTRUCTION SPECIFICATIONS IN ADDITION TO THESE PLANS.
- B. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344 OR 811.
- C. LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. ALL UTILITIES MAY NOT APPEAR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR UNDERGROUND LOCATION OF FACILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING OR "POTHOLING". THE "ONE-CALL" NUMBER (800) 332-2344 OR 811.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- E. SPRINGFIELD CODE 10.2.1 REQUIRES NOTIFICATION OF OPEN TRENCHING FOR THE PROJECT TO ALLOW POSSIBLE COMMUNICATION CABLE INSTALLATION.
- F. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES NECESSARY TO PROTECT AND SAFEGUARD THE PUBLIC AND WORKERS AGAINST INJURY AND PROTECT THE WORK AGAINST DAMAGE. ALL TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING WORK. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION, AS SUPPLEMENTED AND AMENDED BY THE OREGON SUPPLEMENTS. FLAGGING SHALL BE PERFORMED AS SHOWN IN THE THE "OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS", 2011 OR CURRENT EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL AS FIELD CONDITIONS WARRANT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION CONFERENCE FOR CITY REVIEW AND APPROVAL.
- G. ALL SANITARY AND STORM SEWER CONNECTIONS TO EXISTING CITY OWNED FACILITIES (PIPE, CATCH BASINS, MANHOLES, ETC.) SHALL BE INSPECTED BY THE CONTRACTOR AND THE CITY'S PUBLIC WORKS MAINTENANCE DEPARTMENT PRIOR TO HOOK UP. CONTACT MAINTENANCE AT (541-726-3761) OR CITY CONSTRUCTION INSPECTOR NO LESS THAN 48 HOURS PRIOR TO DESIRED INSPECTION TIME.
- H. WHERE CONNECTING TO AN EXISTING PIPE. THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION, CONDITION, AND POSITIVE FLOW BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.
- I. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS
- J. THE CONTRACTOR SHALL INTERNALLY TELEVISION INSPECT THE SEWER AFTER ALL BACKFILL AND BEFORE THE FINAL LIFT OF ASPHALT PAVING. THE CONTRACTOR SHALL SUPPLY THE CITY WITH A WRITTEN T.V. REPORT AND VIDEO TAPE OR DVD FOR CITY APPROVAL AT LEAST 2 WORKING DAYS BEFORE THE PRE-PAVING MEETING.
- K. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.
- L. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- M. COMPACTION REQUIREMENTS:

LAYER	RATE	TEST
SUBGRADE	95%	T99
CRUSHED ROCK	95%	T180
ASPHALT (LOCAL)	90%	RICE
ASPHALT (COLLECTOR/ARTERIAL)	92%	RICE
- N. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):

CONCRETE USE	FIELD	LABORATORY
SIDEWALK/ADA RAMPS	3000	3450
CURBS/GUTTERS	3500	4025
DRIVEWAYS	3500	4025
PAVEMENT	4000	4600
- O. THIS PROJECT SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT REQUIREMENTS SUCH AS INCORPORATION OF DESIGN CRITERIA FOR RAMPS, MAXIMUM PROFILE AND CROSS SECTION SLOPES FOR SIDEWALKS, UPGRADING EXISTING FACILITIES WHERE MAJOR CONSTRUCTION IS OCCURRING, AND BUILDING WARNING FOR OBJECTS IN SIDEWALK SUCH AS CURBING OR LANDSCAPING AROUND MAILBOXES.
- P. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER AGENCIES WITH JURISDICTIONS SUCH AS LANE COUNTY, OREGON DEPARTMENT OF TRANSPORTATION, OREGON DIVISION OF STATE LANDS, THE ARMY CORPS OF ENGINEERS, OR THE DEPARTMENT OF ENVIRONMENTAL QUALITY.
- Q. ALL IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE, PLUMBING SPECIALTY CODE, AND/OR CITY OF SPRINGFIELD BUILDING DIVISION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER CITY DEPARTMENTS PRIOR TO DOING PRIVATE WORK.
- R. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.
- S. STREET TREES: ONLY STREET TREES WITH A MINIMUM TRUNK CALIPER OF 2 IN. MEASURED 6 IN. ABOVE THE ROOT STEM SHALL BE SELECTED FOR PLANTING.
- T. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED BEFORE START OF CONSTRUCTION. ALL UTILITIES, CONTRACTORS and CITY REPRESENTATIVES SHALL HAVE RECEIVED THE FINAL APPROVED PLANS AT LEAST 5 WORKING DAYS PRIOR TO THE PRE CONSTRUCTION CONFERENCE.
- U. THE ENGINEER AND/OR CITY HAVE THE RIGHT TO REQUIRE ADDITIONAL WORK NOT SHOWN HEREIN BUT NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. STD.SPEC. 104.08.
- V. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.
- W. CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- X. CONTRACTOR SHALL BE AWARE IF PAVING IS NOT SCHEDULED OR DOES NOT OCCUR PRIOR TO OCTOBER 15TH, WET WEATHER PROVISIONS INCLUDING ADDITIONAL ROCK SUBSTRUCTURE AND GEOTEXTILE FABRIC SHALL USED. REFER TO STANDARD SPECIFICATION SECTION 301.1.01 AND THE TYPICAL CROSS SECTIONS CONTAINED HEREIN FOR DETAILS
- Y. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

No.	Revisor/Issue	Date
DRAWN: RBK		

NOTE:

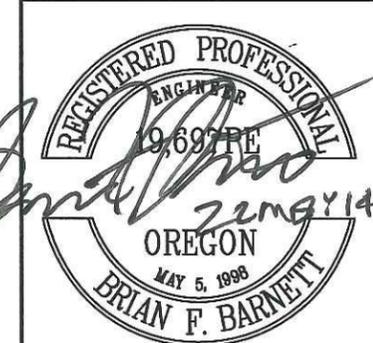
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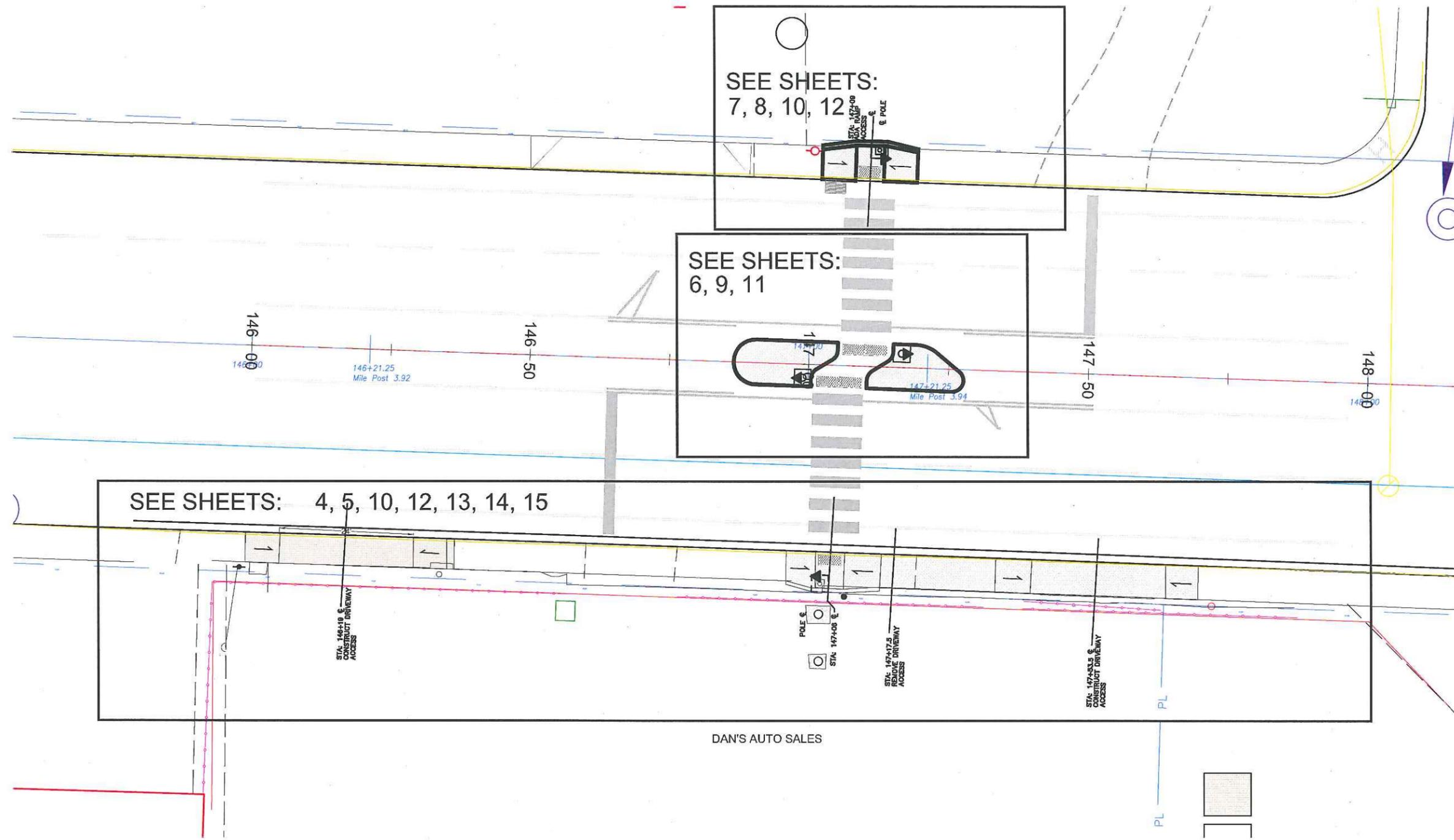
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**P21085 MAIN STREET PED CROSSING
 35th & MAIN STREETS**

City of Springfield

PUBLIC WORKS / ENGINEERING
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 PHONE (541) 726-3753 FAX (541) 726-1021
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PED CROSSING - MAIN ST. & 35th.

SCALE 1"=20'



No.	Revision/Issue	Date

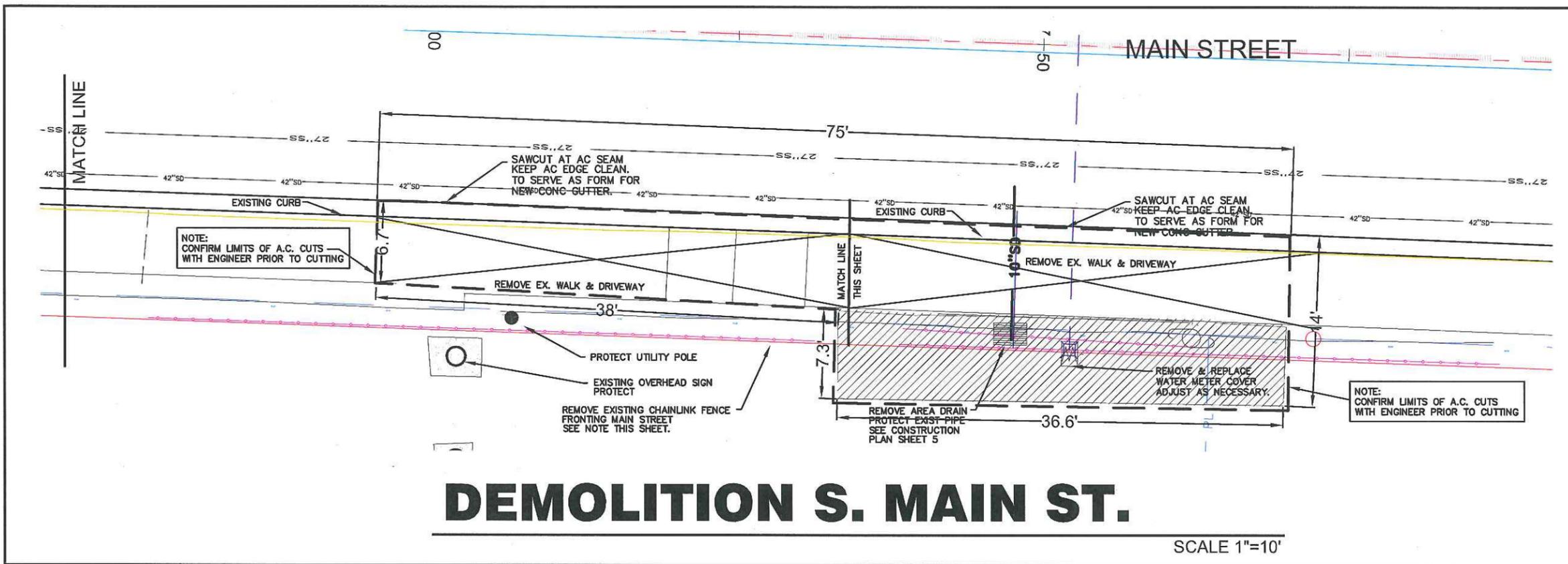
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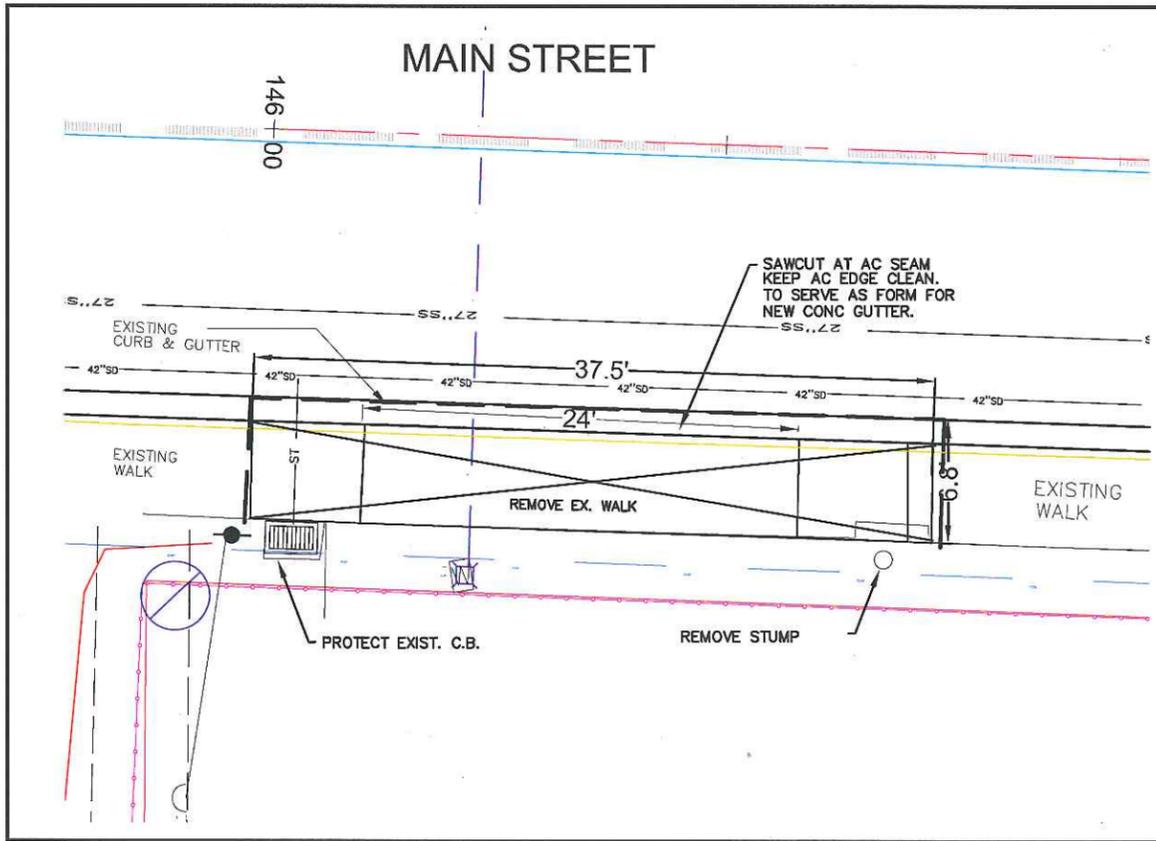


EXPIRES 12-31-15



DEMOLITION S. MAIN ST.

SCALE 1"=10'



DEMOLITION S. MAIN ST.

SCALE 1"=10'

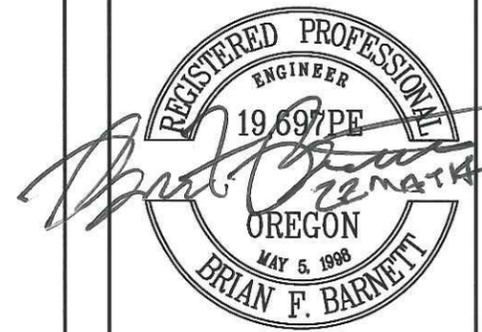
NOTE:
CONTRACTOR TO COORDINATE WITH PROPERTY OWNER
(DAN'S AUTOMOTIVE) ON REMOVAL AND INSTALLATION
OF FENCE AND TIMING THEREOF.

No.	Revision/Issue	Date

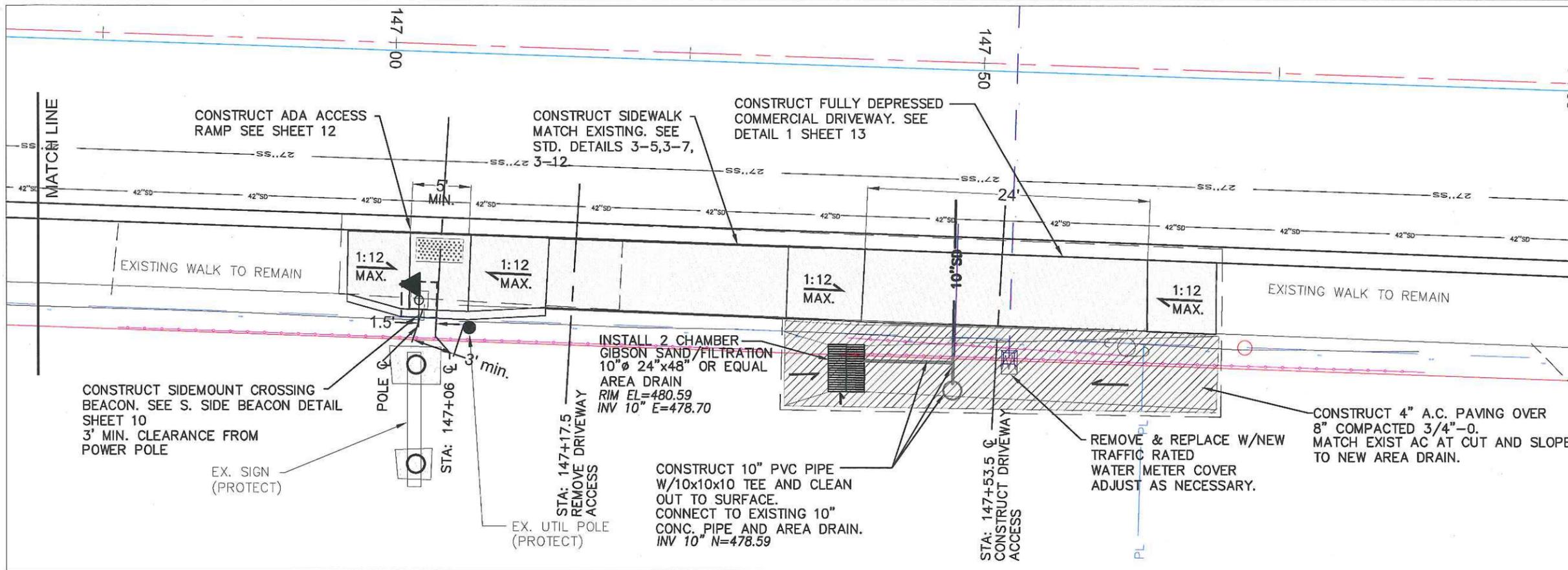
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35th & MAIN STREETS**

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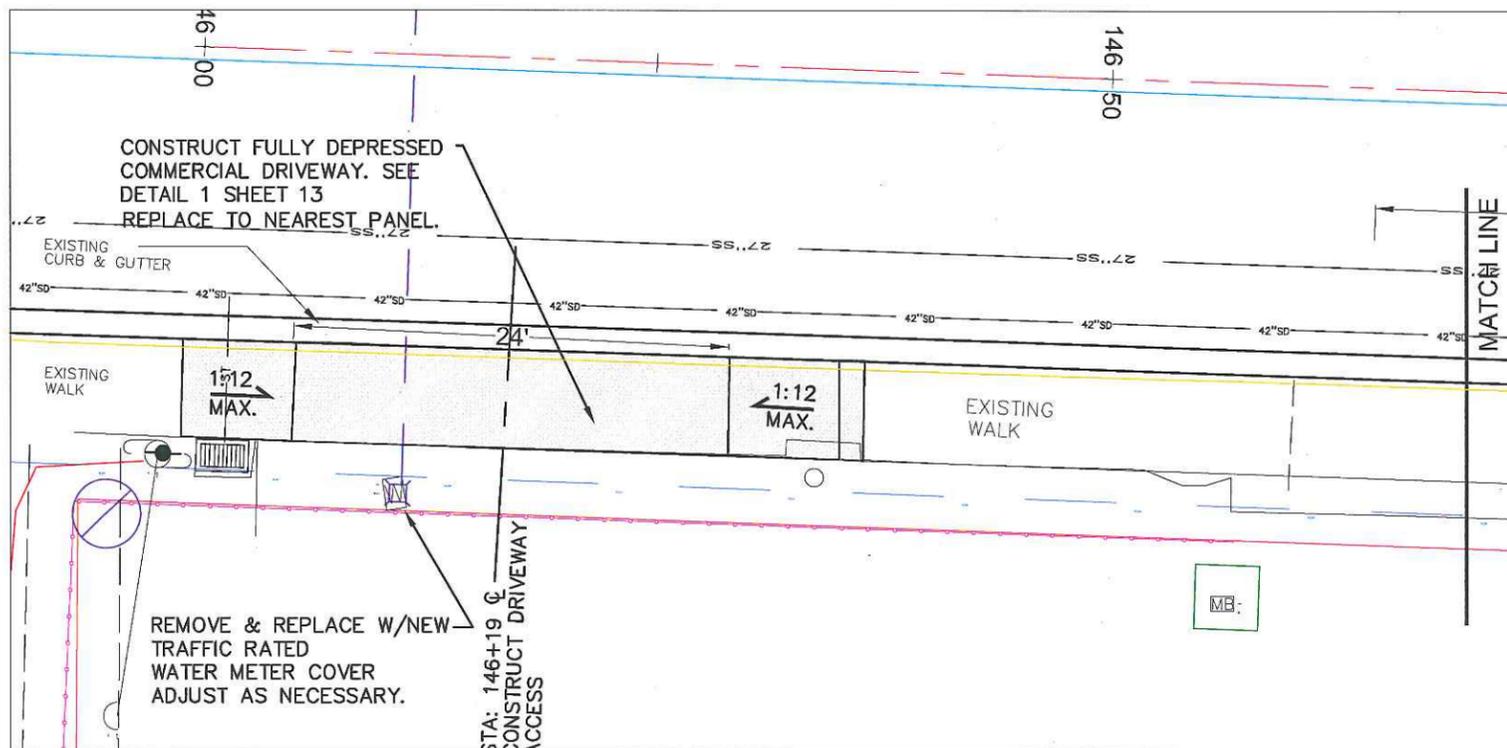


EXPIRES 12-31-15

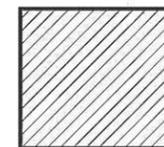


S. MAIN CONSTRUCTION

SCALE 1"=10'



NEW CONCRETE



NEW A.C.

No.	Revision/Issue	Date

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BEGINNING OF CONSTRUCTION.
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THE CORRECT LOCATIONS.

**P21085 MAIN STREET PED CROSSING
35th & MAIN STREETS**

City of Springfield

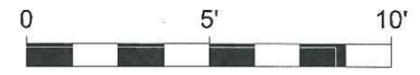
PUBLIC WORKS / ENGINEERING
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PHONE (541) 726-3753 FAX (541) 736-1021
INTERNET www.ci.springfield.or.us



EXPIRES 12-31-15

SHEET

5

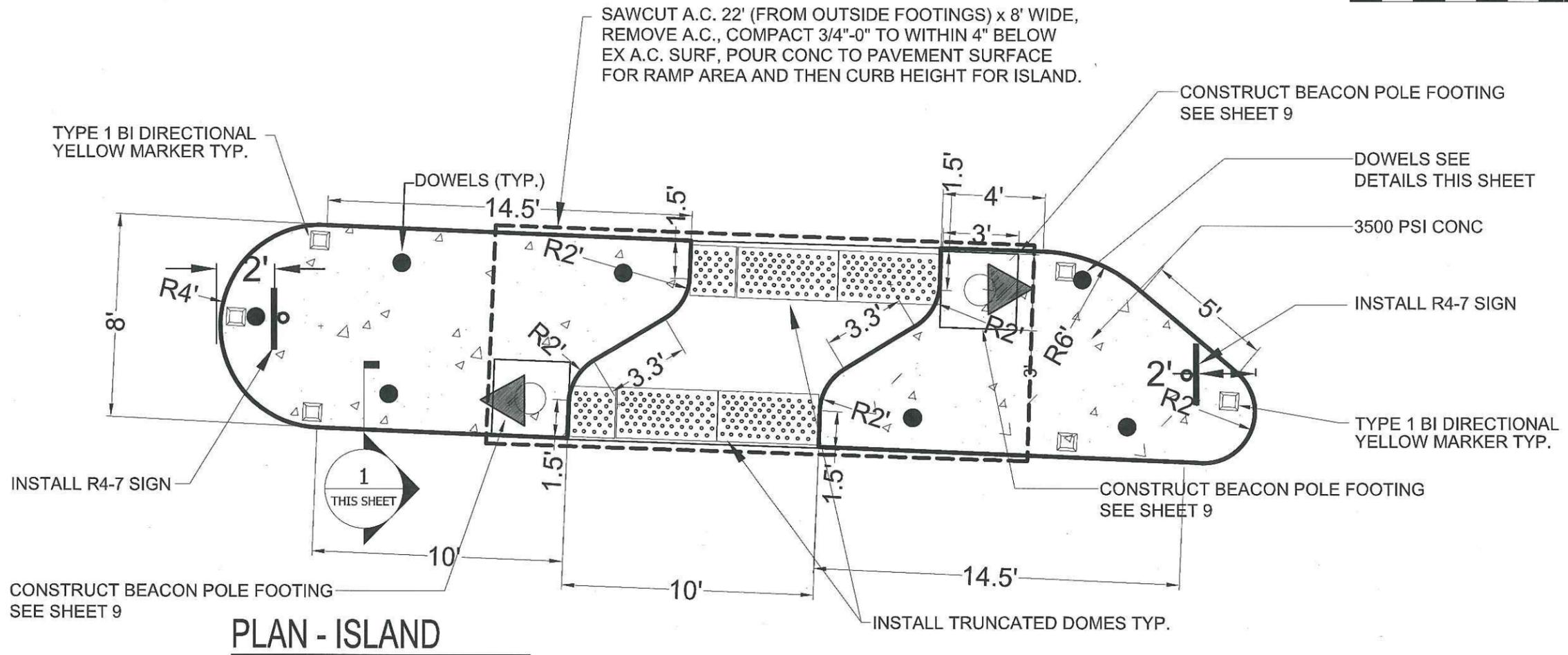


No.	Revision/Issue	Date

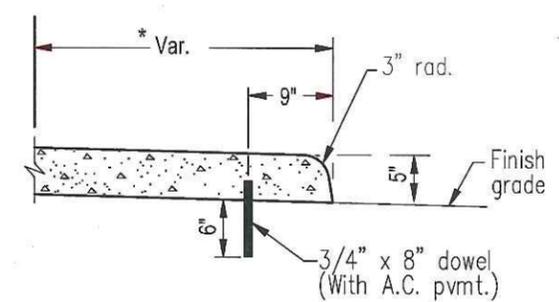
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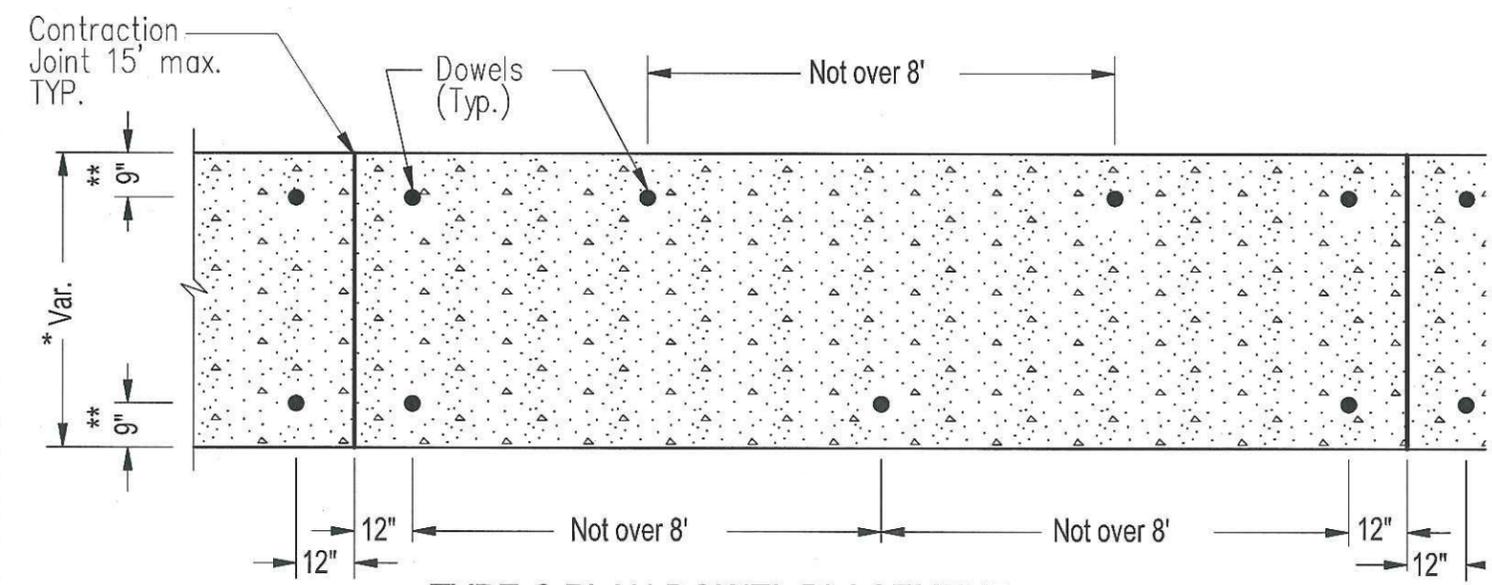
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PLAN - ISLAND



1 TYPE C MOUNTABLE
NO SCALE



TYPE C PLAN DOWEL PLACEMENT
NO SCALE

**P21085 MAIN STREET PED CROSSING
35th & MAIN STREETS**

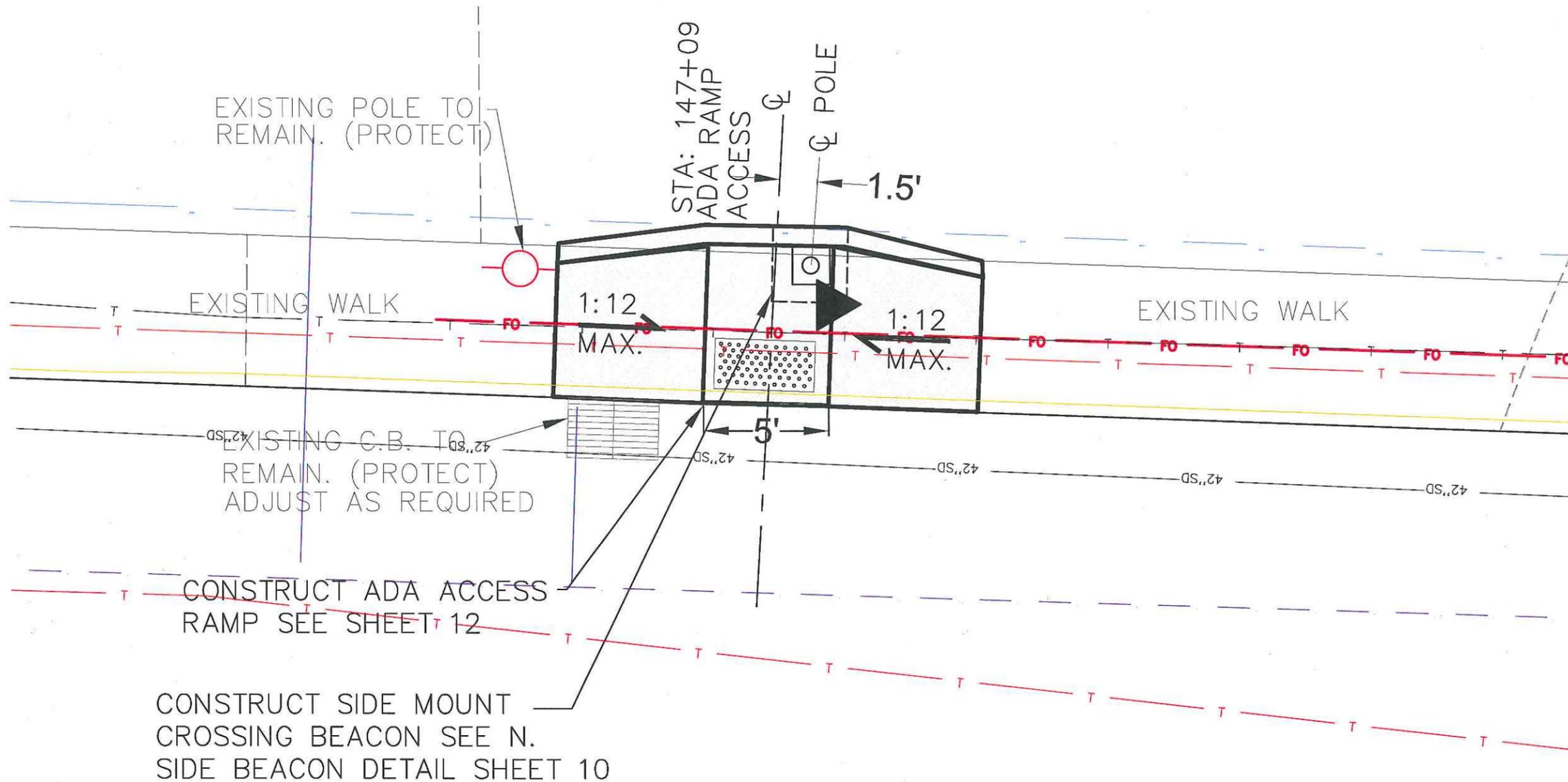
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EXPIRES 12-31-15

SHEET

6



N. MAIN CONSTRUCTION

SCALE 1"=5'

No.	Revision Issue	Date

NOTE:

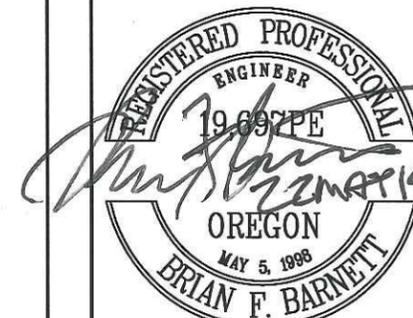
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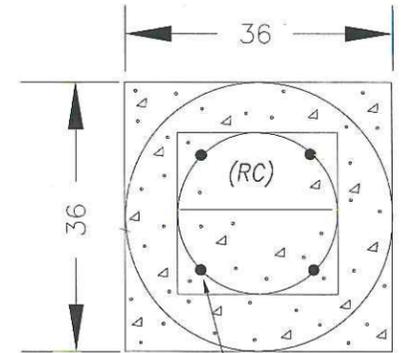
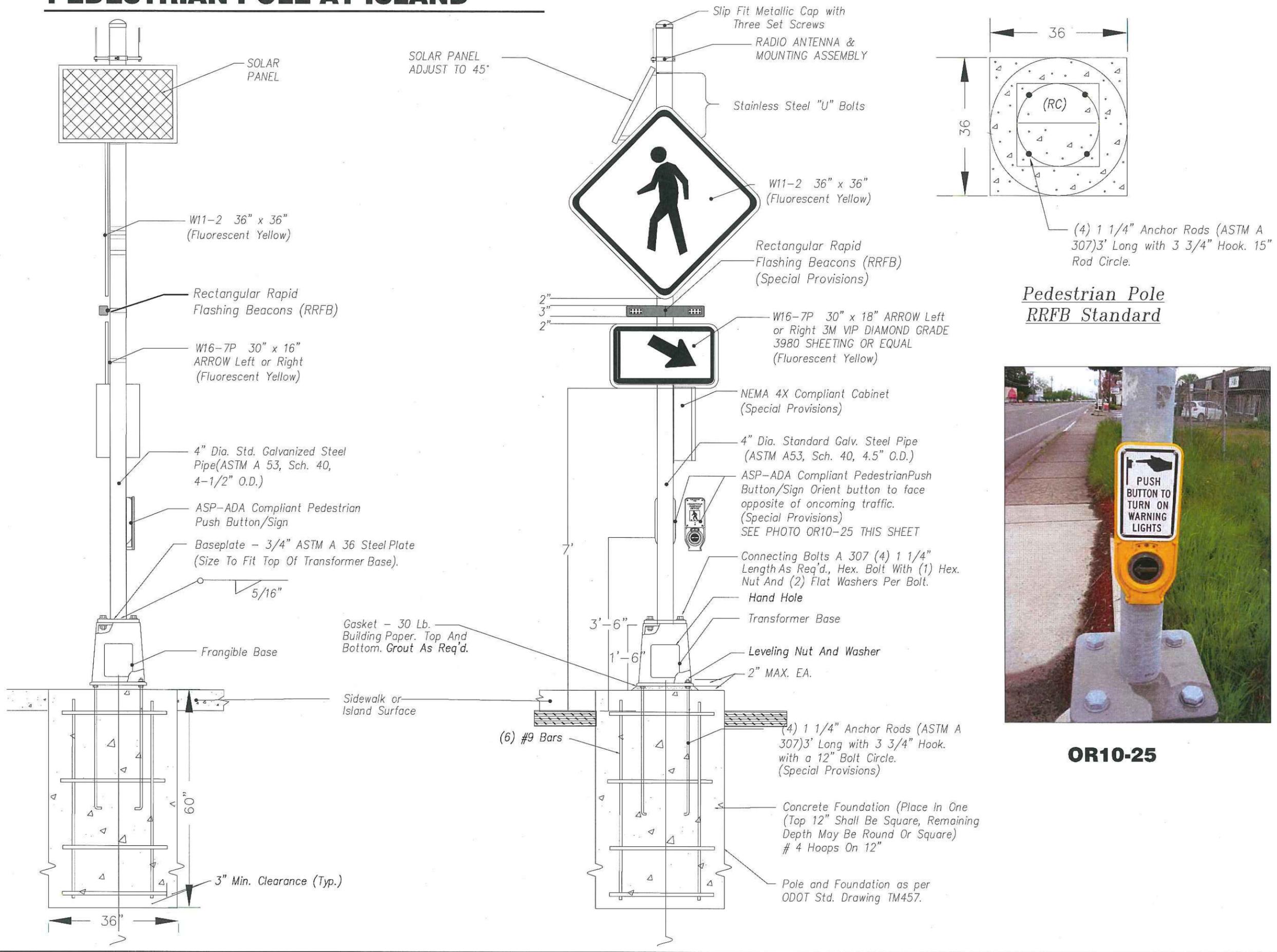


EXPIRES 12-31-15

SHEET

8

PEDESTRIAN POLE AT ISLAND



(4) 1 1/4" Anchor Rods (ASTM A 307) 3' Long with 3 3/4" Hook. 15" Rod Circle.

Pedestrian Pole RRFB Standard



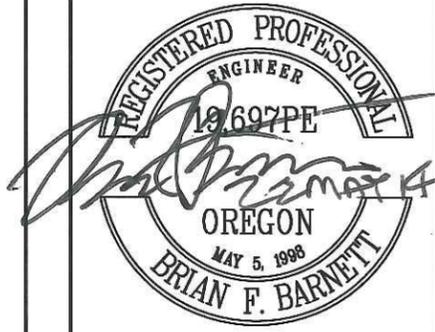
OR10-25

No.	Revision/Issue	Date

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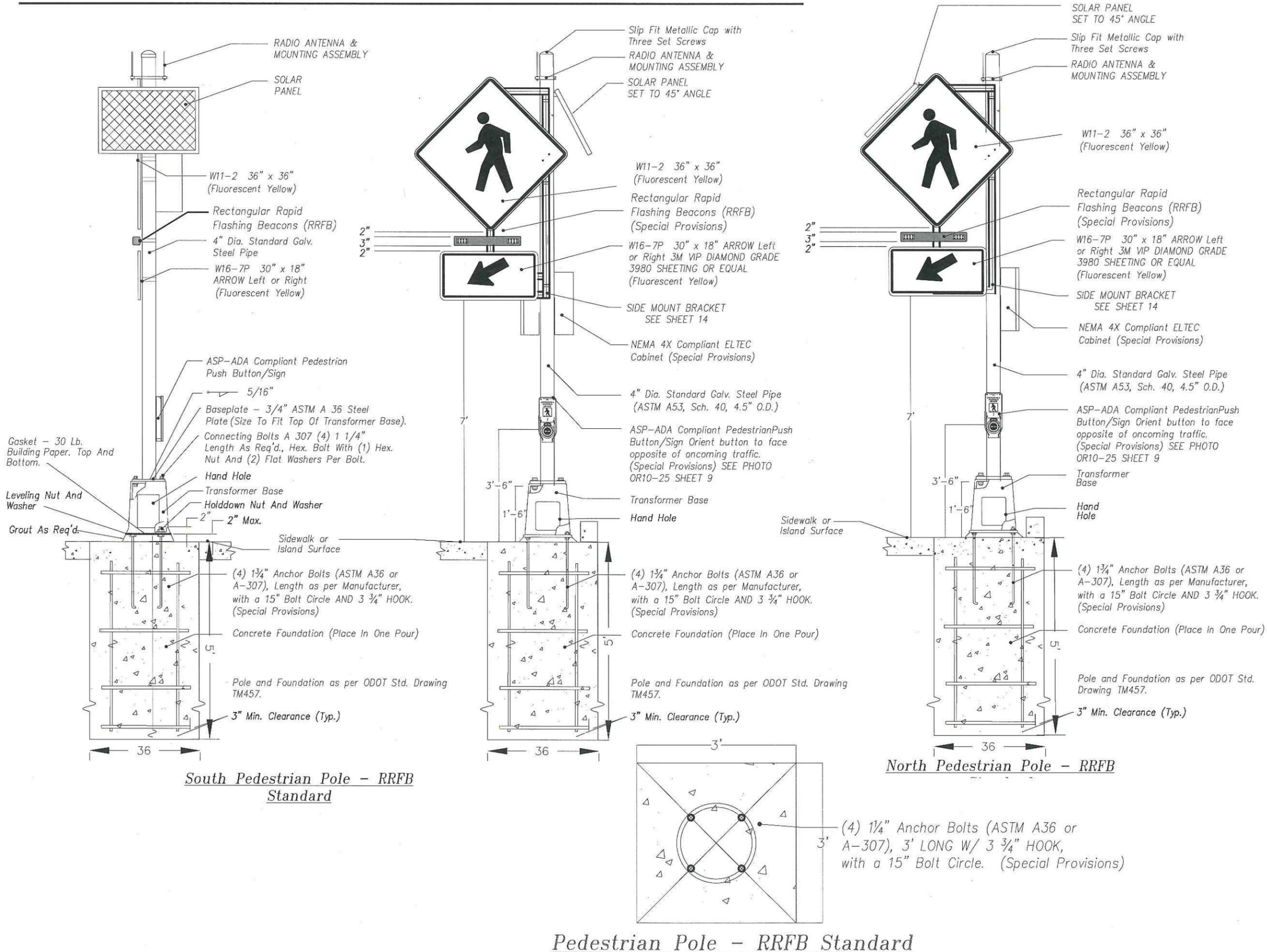
P21085 MAIN STREET PED CROSSING 35th & MAIN STREETS

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EXPIRES 12-31-15

PEDESTRIAN POLE AT N. & S. SIDE OF STREET



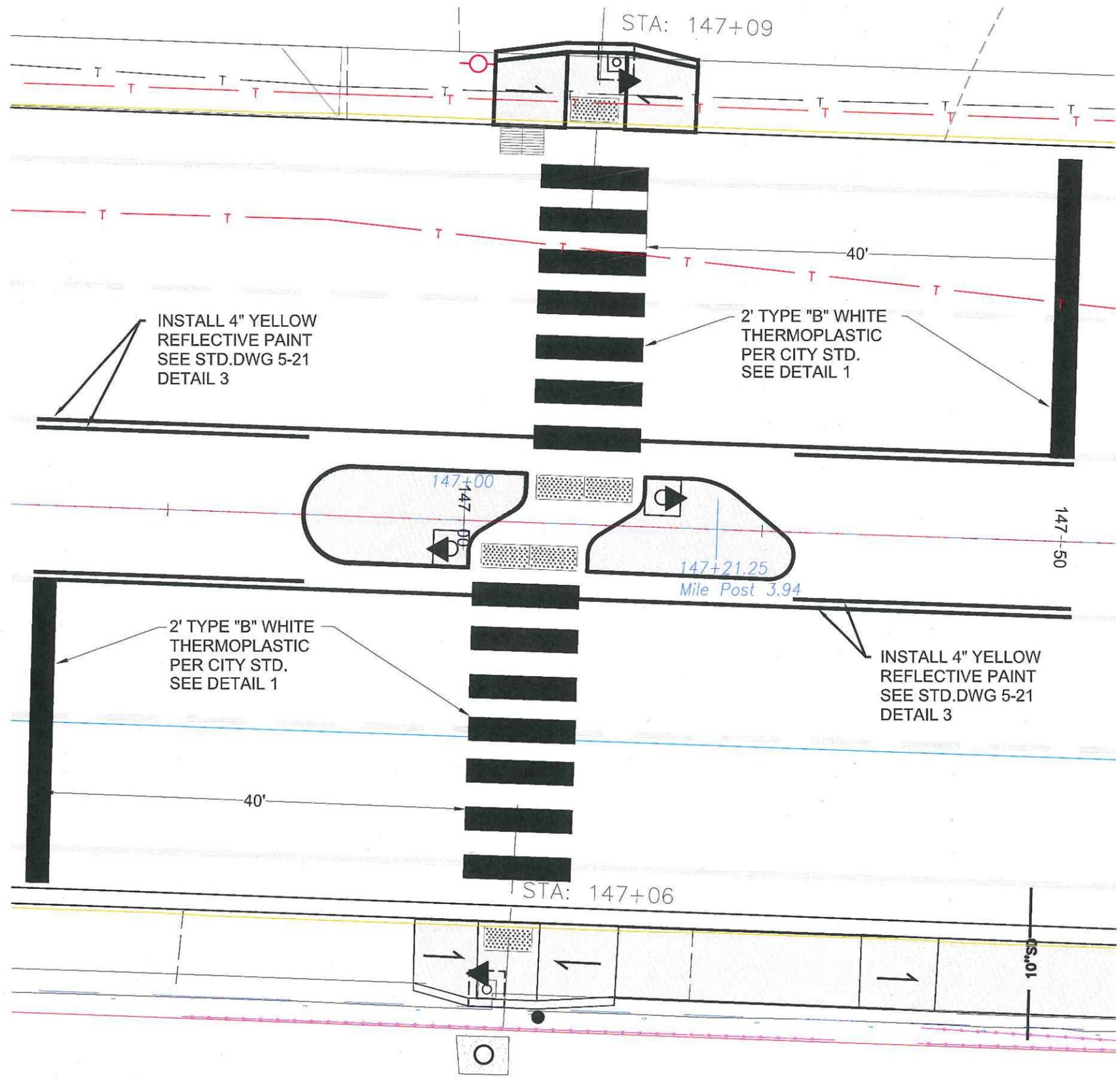
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REGISTERED PROFESSIONAL ENGINEER
 19697PE
 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT
 EXPIRES 12-31-15

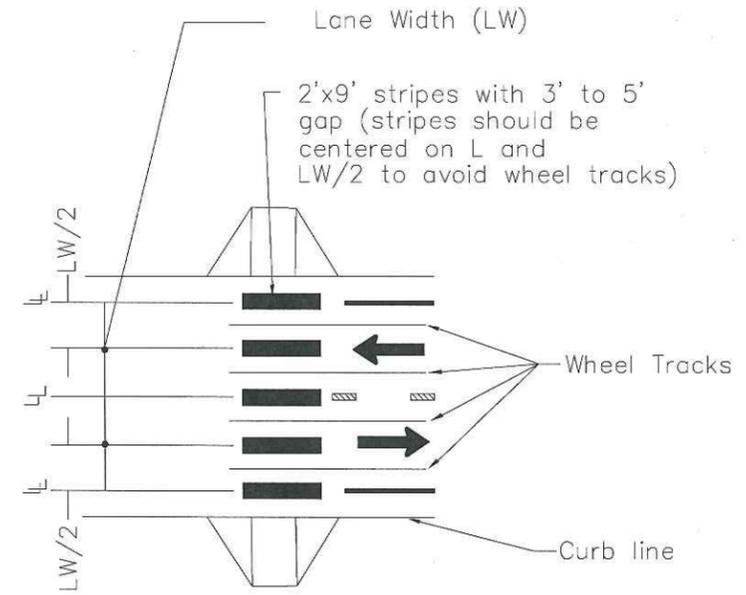


INSTALL 4" YELLOW REFLECTIVE PAINT SEE STD.DWG 5-21 DETAIL 3

2' TYPE "B" WHITE THERMOPLASTIC PER CITY STD. SEE DETAIL 1

2' TYPE "B" WHITE THERMOPLASTIC PER CITY STD. SEE DETAIL 1

INSTALL 4" YELLOW REFLECTIVE PAINT SEE STD.DWG 5-21 DETAIL 3



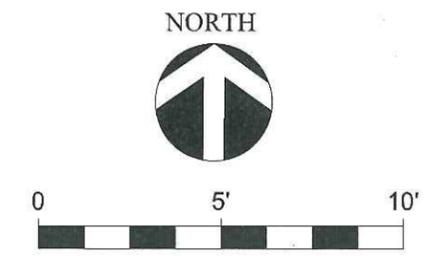
STAGGERED CONTINENTAL LAYOUT

Note: Install crosswalk bars such that the throat of the ADA ramp, is entirely within crosswalk markings or 5' back of extended fog line, edge of pavement, or curb face.

DETAIL 1

MAIN STREET STRIPING & SIGNING PLAN

SCALE 1"=10'



No.	Revision/Issue	Date

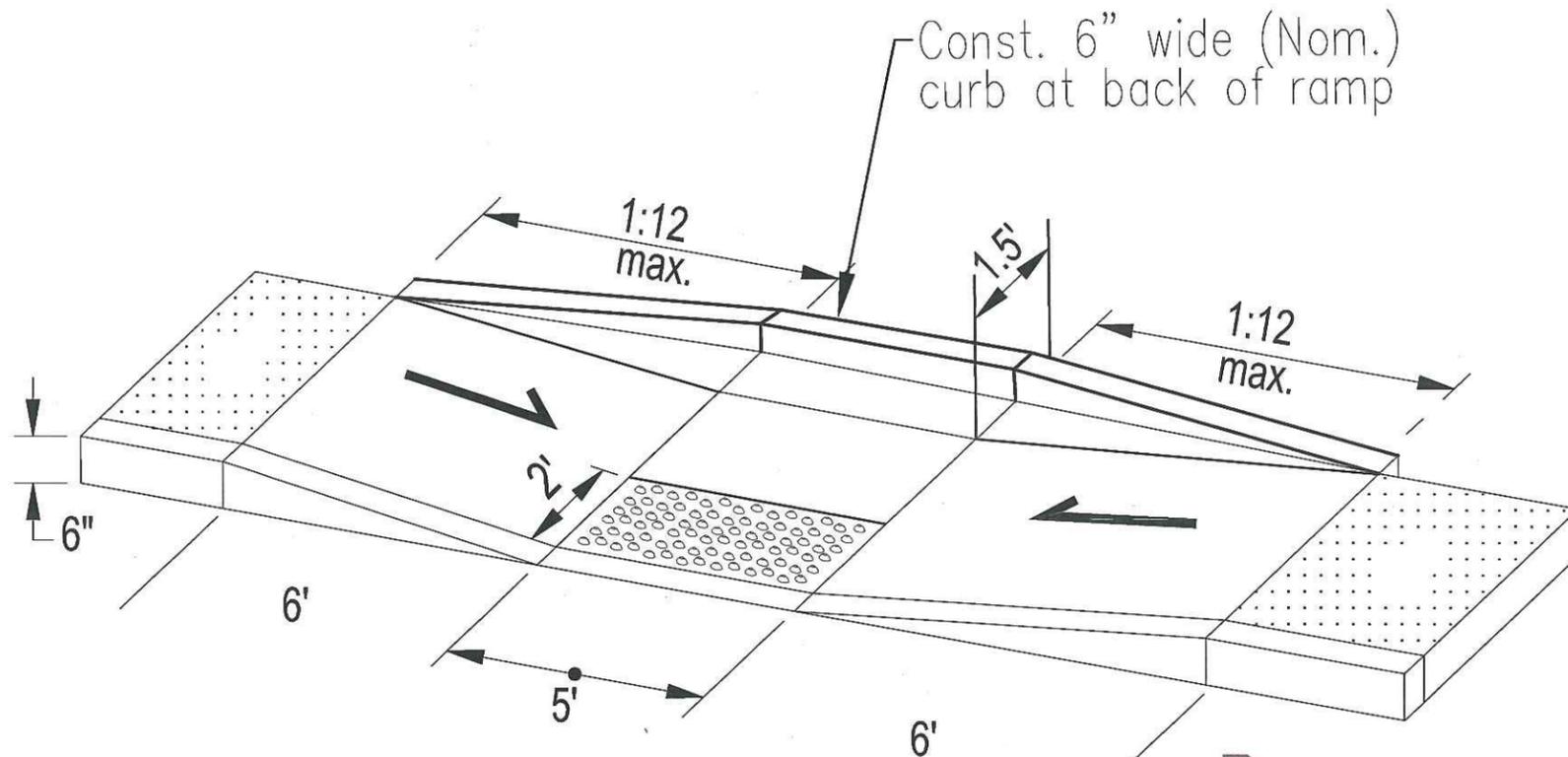
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EXPIRES 12-31-15



PARALLEL SIDEWALK RAMP DETAIL



DETAIL SHOWING WALK AND SIGN LOCATION

GENERAL NOTES:

1. Sidewalk ramp details are based on United States Access Board Standards.
2. Tooled joints are required at all sidewalk ramp slope break lines.
3. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
4. Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only.
6. Side flares that are not part of the path of travel may be any slope.
7. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
8. Ramps for paths intersecting a roadway should be full width of path, excluding flares.
9. Only use details allowed by jurisdiction.

No.	Revision/Issue	Date

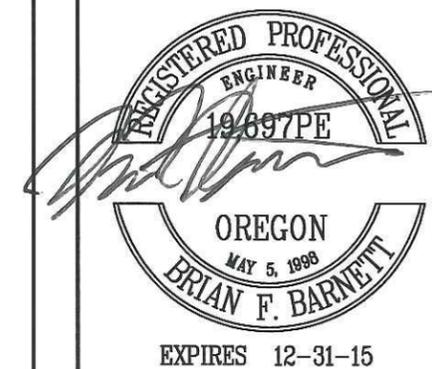
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SHEET

12

No.	Revision/Issue	Date

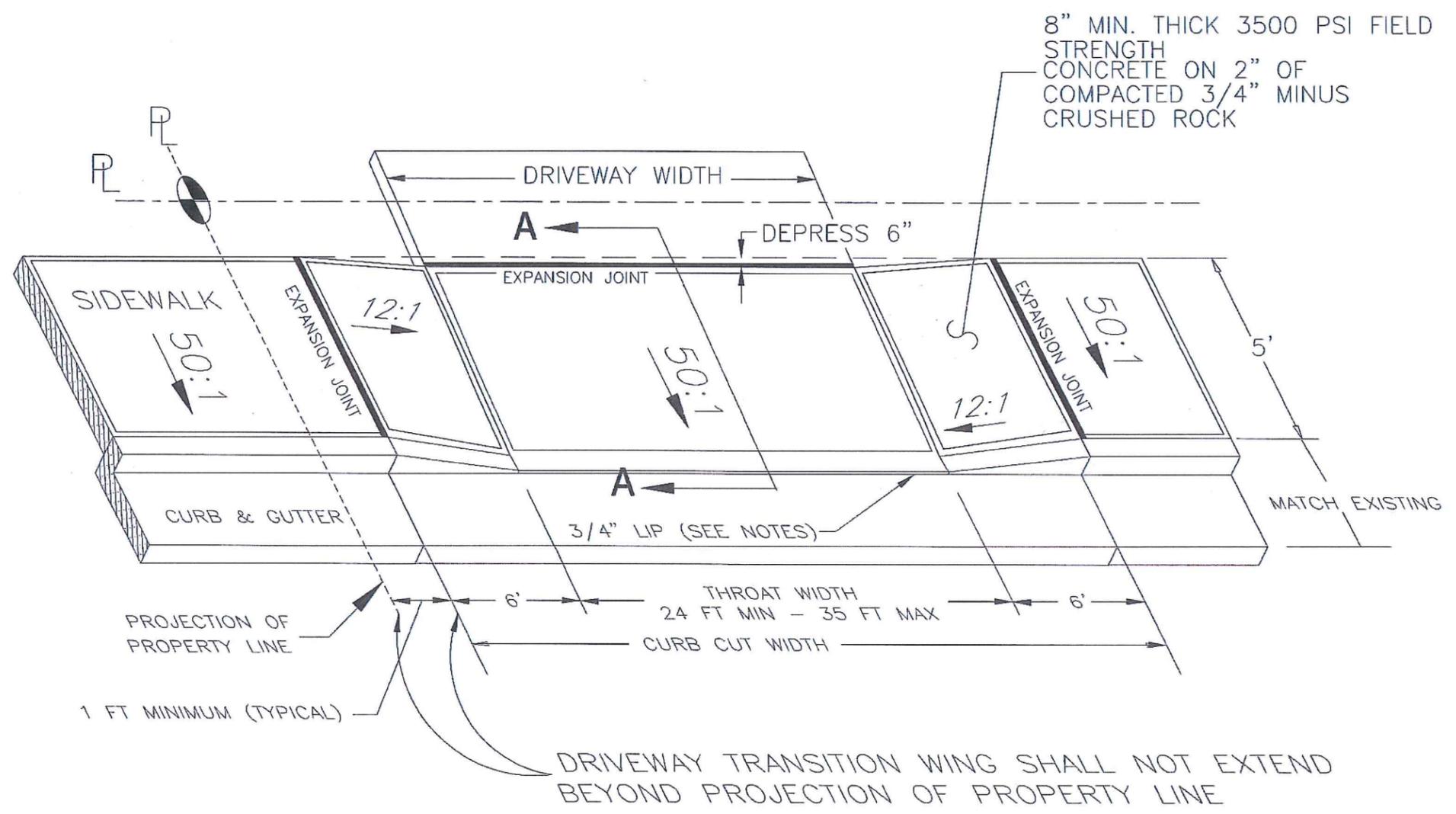
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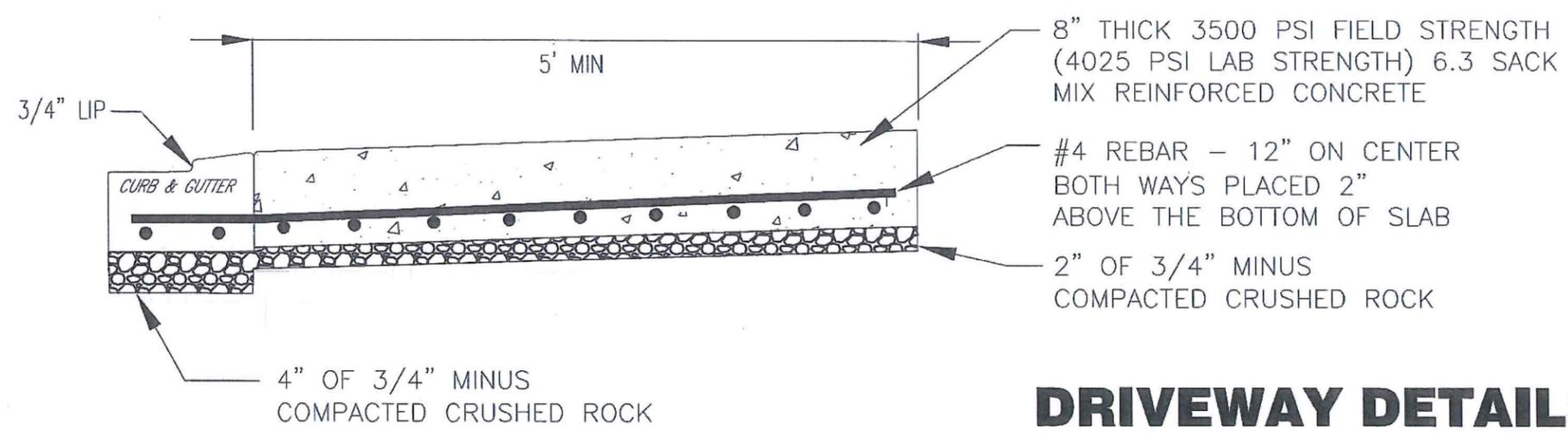
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 226 FIFTH STREET, SPRINGFIELD, OR 97177
 PHONE (503) 285-7035 FAX (503) 285-7021
 INTERNET www.springfield.or.us

REGISTERED PROFESSIONAL
 ENGINEER
 59,604
Kenneth J. Vogney
 OREGON
 JAN 12, 1999
 KENNETH JAY VOGENEY
 5/20/14
 EXPIRES 6/30/14

SHEET
13

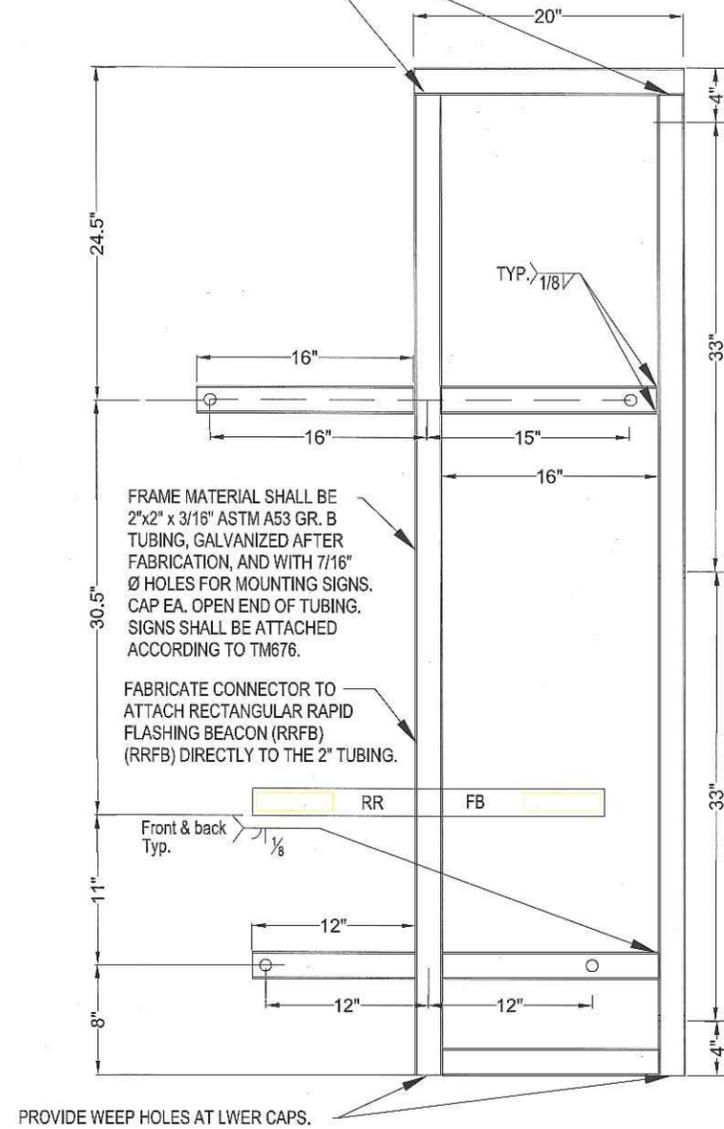


SECTION A - A

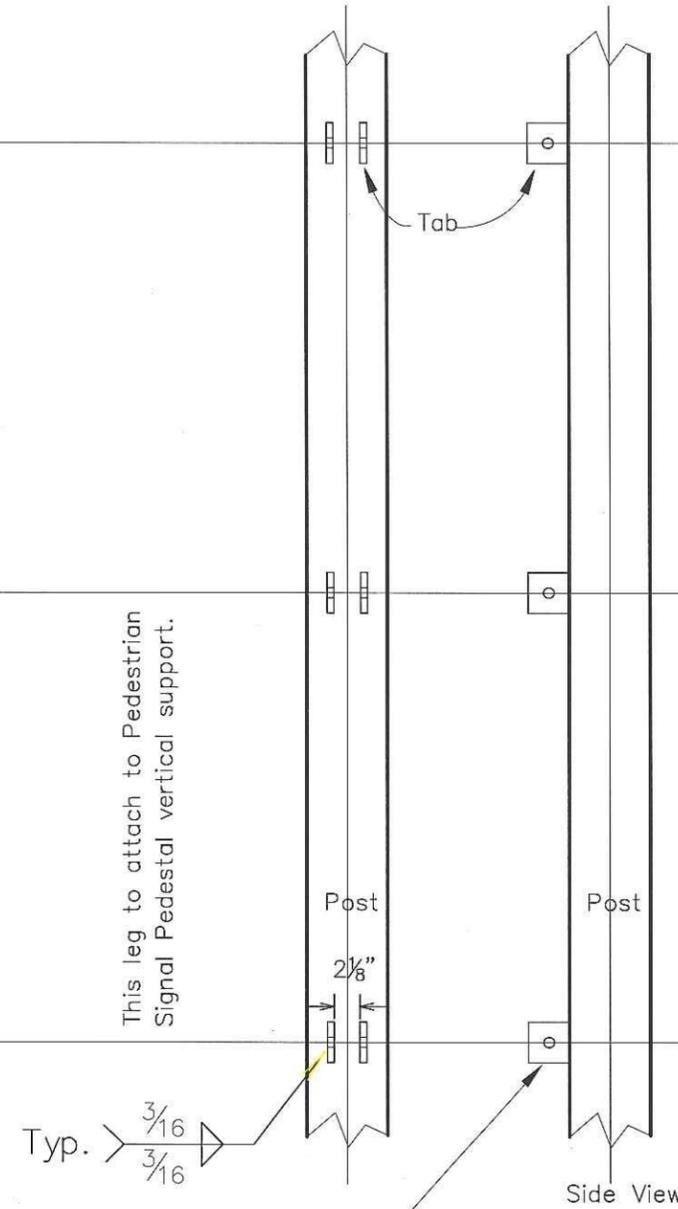


DRIVEWAY DETAILS

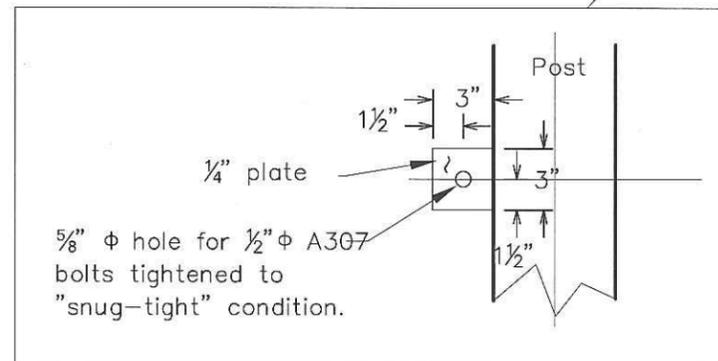
DRILL MIN. 1" Ø HOLE TO THREAD WIRE THROUGH FRAME.



SIGN MOUNTING DETAILS



SIDE MOUNT DETAILS



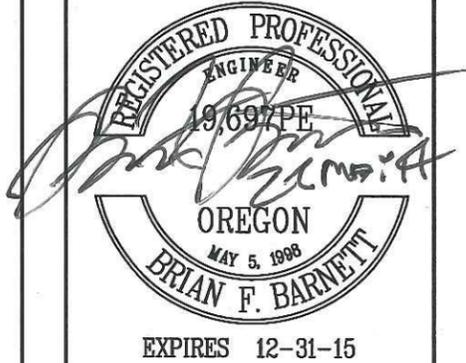
RRFB Side Mount Detail

No.	Revision/Issue	Date

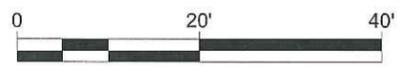
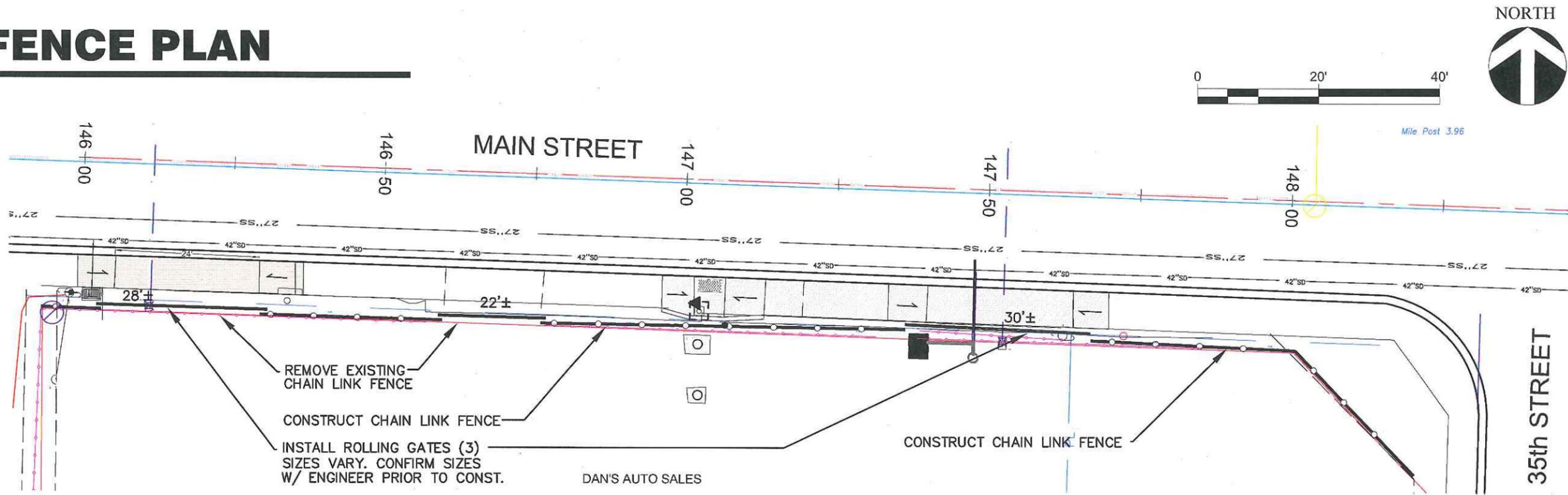
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FENCE PLAN



Mile Post 3.96

No.	Revision/Issue	Date
DRAWN: RBK		

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NOTES:

CHAIN LINK FENCE: Construct 6 foot tall black vinyl coated chain link Fence with three gates.

- A. Contractor shall provide labor and materials to install APPROX. 162 lf of 6 foot tall black Powder coated 2" 6 ga core wire mesh chain link fence as per manufacture's specifications. Post spacing shall be 8'-10'o.c. with Line posts at 24" min. depth. Terminal posts shall be 30" deep. Posts shall be set in an 8" dia. hole and be set plumb to surface in concrete. Posts and terminal hardware shall be factory powder coated (Black).
- B. Post/Rail specs:
 Terminal Posts – 2 3/8" Structural = .116 wall Min.
 Line Posts – 1 7/8" Structural = .116 wall thickness Min.
 Top Rail – 1 5/8" Structural = .104 wall thickness Min.
 Bottom Rail – tension wire sized correctly.
- C. Provide rolling in line gates lengths to be determined by engineer and adjusted for site conditions. Swings shall have an assembly for secure closure.
- D. The constructed fence shall carry a warrantee for materials of 10 year min. and construction of 1 year min. A copy of warrantee shall be provided to the City and shall be considered as part of the finished project.

NOTE:
 CONTRACTOR TO COORDINATE WITH PROPERTY OWNER (DAN'S AUTOMOTIVE) ON REMOVAL AND INSTALLATION OF FENCE AND TIMING THEREOF.

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 35th & MAIN STREETS**

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REGISTERED PROFESSIONAL ENGINEER
 19697PE
 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT
 EXPIRES 12-31-15

NOTES:

1. PLACE INLET/CATCH BASIN PROTECTION AT EXISTING FIXTURES (SEE DETAIL ON SHEET E2.)

GENERAL NOTES:

1. CONCRETE WASHOUTS ARE NOT PROVIDED ON THIS PROJECT
2. SAW CUTTING SLURRY IS TO BE VACUMED
3. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).

EROSION CONTROL STANDARD NOTES:

- A. Approval of this Erosion and Sedimentation Control Plan (ESCP) does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).
- B. Approval of this ESCP does not relieve the permit holder and or the contractor from all other permitting requirements. Prior to beginning construction activities, all other necessary approvals shall be obtained.
- C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.
- D. The erosion and sediment control measures shown on the plan are the minimum requirements for anticipated site conditions. During the construction period, these measures shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site.
- E. The implementation of the ESCP and the construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the permit holder and or the contractor until all construction is completed and accepted by the City and vegetation/landscaping is established per the required warranty period.
- F. In the event the ESC facilities identified on the ESCP are not functioning properly, the contractor is responsible for immediately implementing changes to the ESCP as directed by the ESCP engineer or his inspector. The engineer, his inspector or the City may stop all construction activity on site until the erosion problem is corrected and all ESC facilities are functioning properly. If the contractor does not immediately implement changes to the ESCP identified by the ESCP engineer or his inspector, the City may implement the necessary changes and require payment from the contractor prior to project acceptance by the City.
- G. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by the engineer prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the permit holder and or the contractor for the duration of construction.
- H. The erosion and sediment control measures on active sites shall be inspected and maintained daily and within the 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. Measures shall be inspected by the permit holder and or the contractor after each rainfall and at least daily during prolonged rainfall. Any required repairs or adjustments shall be made immediately. The erosion and sediment control measures on inactive sites shall be inspected a minimum of once every two (2) weeks or within 48 hours following a storm event. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (October 1 to April 30) and of monthly reviews during the dry season (May 1 to September 30).
- I. All erosion and sediment control measures shall be protected from damage at all times. Control measures shall remain in place until permanent or temporary re-vegetation has been stabilized. Any measure that is damaged or destroyed shall be repaired or replaced immediately.
- J. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season (October 1 to April 30) or seven days during the dry season (May 1 to September 30) shall be immediately stabilized with an approved ESC method (seeding & mulching with straw, bark, compost, or plastic covering, etc.).
- K. A supply of materials necessary to meet compliance and implement the LDAP or other best management erosion practices under all weather conditions shall be maintained at all times on the construction site.
- L. No hazardous substances, such as paints, thinners, fuels and other chemicals shall be released onto the site, adjacent properties, or into water features, the City's storm water system, or related natural resources.
- M. Street sweeping shall be performed as needed or when directed by the City inspector to ensure public right-of-ways are kept clean and free of debris. Street flushing is prohibited.
- N. When trucking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on site until dripping has been reduced to no more than one gallon per hour. Sediment laden water will not be allowed to enter the storm water system
- O. Extracted ground water from excavated trenches shall be disposed of in a suitable manner without damage to adjacent property, public storm water system, water features, and related natural resources. Approval of a dewatering system does not guarantee that it will meet compliance or be acceptable for use in all situations. Modifications to the dewatering system will be required if compliance can not be met. At no time will sediment laden water be allowed to leave the construction site.
- P. At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.
- Q. Any required stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.
- R. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity.
- S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.
- T. In preparation of the wet season, all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. A sketch map of those areas to be seeded and those areas to remain uncovered shall be submitted to the City by September 15. The City can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities. Disturbed areas identified for seeding shall be seeded prior to the beginning of the wet season (October 1).

No.	Revision/Issue	Date

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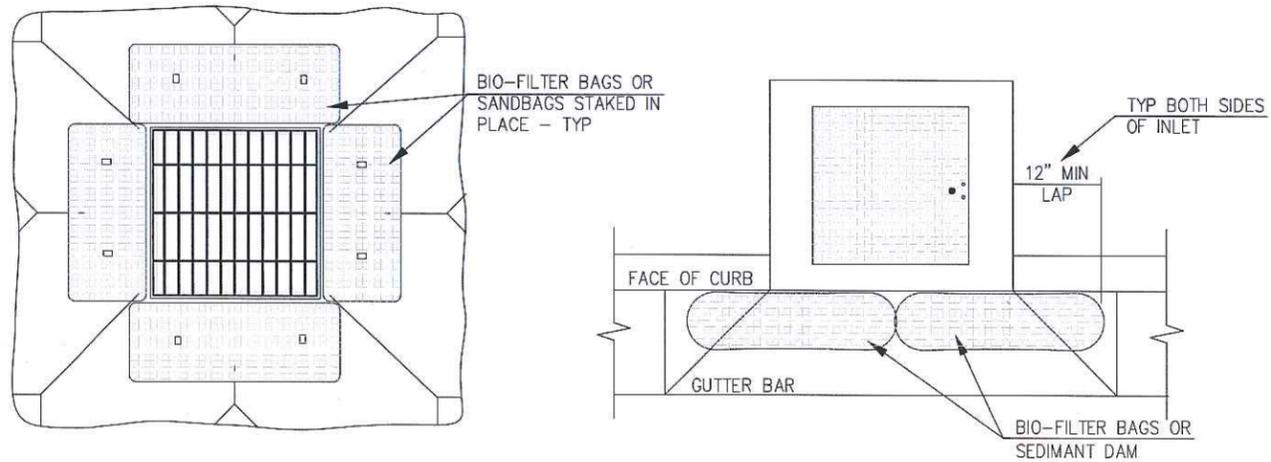
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EXPIRES 6/30/14



NOTES

1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR CURB INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

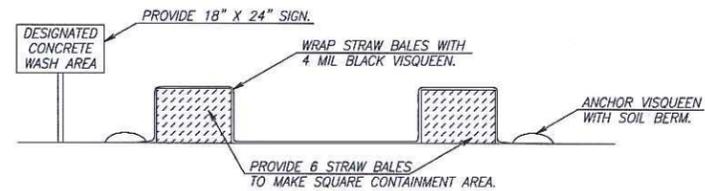
1

DRAINAGE INLET STRUCTURE PROTECTION

NO SCALE

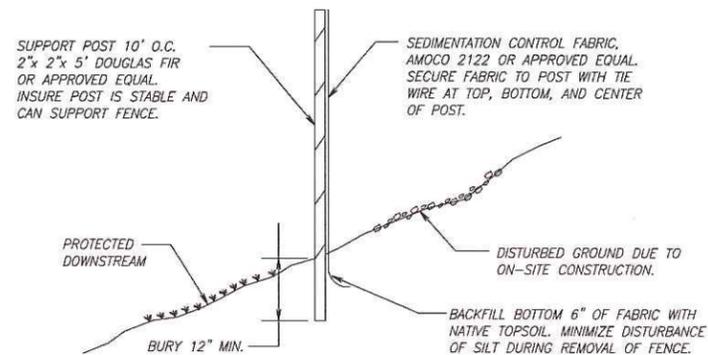


INLET PROTECTION



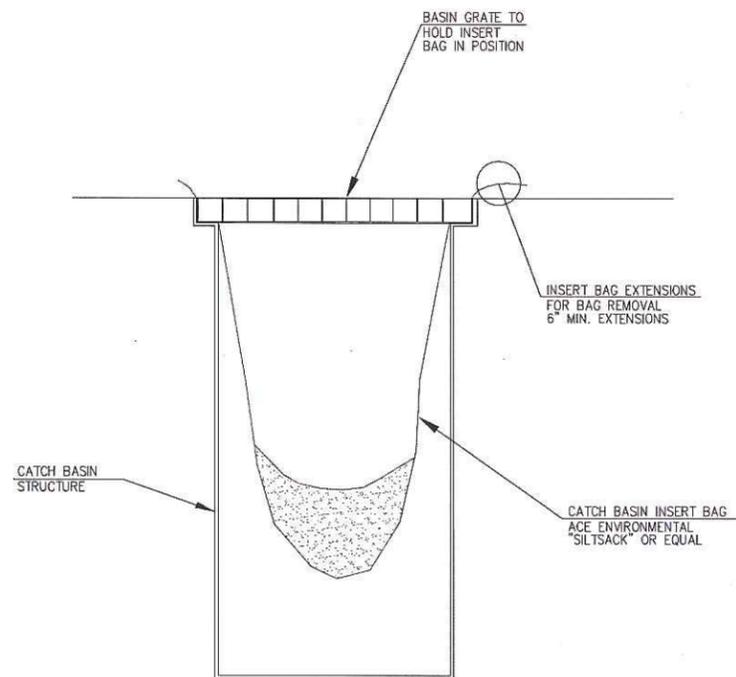
CONCRETE WASH AREA DETAIL

N.T.S.



SEDIMENTATION CONTROL FABRIC TYPE SILT FENCE

N.T.S.



1

CATCH BASIN INSERT BAG

NO SCALE

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EXPIRES 6/30/14

SHEET

E2

41st Pedestrian Crossing

PROJECT DESCRIPTION

This project will primarily include the construction of a pedestrian crossing near 41st and Main Streets.

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FM	FORCE MAIN	RCP	REINFORCED CONCRETE PIPE
ABAN	ABANDON(ED)	FT	FOOT	RD	ROAD
ADA	AMERICANS W/ DISABILITIES ACT	FTG	FITTING	RDCR	REDUCER
AL	ALUMINUM	G	GAS	REINF	REINFORCE(DNG)(MENT)
APPROX	APPROXIMATELY	GALV	GALVANIZED	RESTR	RESTRAIN(ED)
APPVD	APPROVED	GR	GRADE	REQ'D	REQUIRED
ASSY	ASSEMBLY	GRVL	GRAVEL	ROW	RIGHT OF WAY
ARV	AIR RELEASE VALVE	GV	GATE VALVE	SCHED	SCHEDULE
BLDG	BUILDING	HORIZ	HORIZONTAL	SD	STORM DRAIN
BM	BENCHMARK	HWY	HIGHWAY	SERV	SERVICE
BO	BLOWOFF	HP	HIGH PRESSURE	SHT(S)	SHEET(S)
BTM	BOTTOM	ID	INSIDEDIAMETER	SL	SLOPE
CL	CENTER LINE	IE	INVERT ELEVATION	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INSTL	INSTALL	SPL	SPOOL
CCP	CONCRETE CULVERT PIPE	LDAP	LAND & DRAINAGE ALTERATION PERMIT	SQ	SQUARE
CI	CAST IRON	LAT	LATERAL	SQ FT	SQUARE FOOT
CG	CURB/GUTTER	LF	LINEAL FEET	SS	SANITARY SEWER
CL	CLASS	LP	LOW PRESSURE	SST	STAINLESS STEEL
CO	CLEANOUT	MATL(S)	MATERIAL(S)	ST	STREET
CONC/CON	CONCRETE CONSTRUCTION	MAX	MAXIMUM	STA	STATION
CONST	CONCRETE	MFR(S)	MANUFACTURER(S)	STL	STEEL
COP	COPPER	MH(S)	MANHOLE(S)	STD	STANDARD
COS	CITY OF SPRINGFIELD	MHSD	MANHOLE STORM DRAIN	SUB	SPRINGFIELD UTILITY BOARD
CPLG	COUPLING	MHSS	MANHOLE SANITARY SEWER	S/W	SIDEWALK
CR	CRUSHED ROCK	MIN	MINIMUM	TEL/T	TELEPHONE
CV	CHECK VALVE	MJ	MECHANICAL JOINT	TB	THRUST BLOCK
CY	CUBIC YARD	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	TEMP	TEMPORARY
D	DRAIN	NTS	NOT TO SCALE	THK	THICK
DET	DETAIL	OC	ON CENTER	THRU	THROUGH
DL	DUCTILE IRON	OD	OUTSIDE DIAMETER	TV	TELEVISION
DIA / Ø	DIAMETER	ODOT	OREGON DEPARTMENT OF TRANSPORTATION	TYP	TYPICAL
DR	DRIVE	OVHD	OVERHEAD UTILITY	VERT	VERTICAL(Y)
DWG	DRAWING	P	POWER	W	WATER
DWY	DRIVEWAY	PCC	PORTLAND CEMENT CONCRETE	W/	WITH
EA	EACH	PE	PLAIN END	W/IN	WITHIN
EL	ELEVATION	PERM	PERMANENT	W/O	WITHOUT
ELEC/E	ELECTRICAL	P/L	PROPERTY LINE	WM	WATER METER
EOP	EDGE OF PAVEMENT	POLY	POLYETHYLENE		
EQ	EQUAL	PROP	PROPOSED		
EQUIP	EQUIPMENT	PS	PUMP STATION		
ESMT	EASEMENT	PUGD	UNDERGROUND POWER		
EX	EXISTING	PV	PLUG VALVE		
EG	EXISTING GRADE	PVC	POLYVINYL CHLORIDE		
PRESS	PRESSURE	PVMT	PAVEMENT		
FAB	FABRICATE				
FD	FLOOR DRAIN				
FH	FIRE HYDRANT				
FIN GR	FINISHED GRADE				
FL	FLOW LINE				
FLG	FLANGE(D)				

LEGEND

RIGHT OF WAY (ROW) LINE	PL	PL
GAS LINE	G	G
FIBER OPTIC (NO. OF CABLES)	FO	
WATER LINE		
POWER (ELECTRIC)	ST	
STORM SEWER (STATE)		
RIGHT OF WAY	WW	
SANITARY SEWER (EXISTING)		
STORM SEWER (NEW)		
SANITARY SEWER (NEW)		
GAS VALVE		
WATER VALVE		
WATER LINE		
WATER METER		
UTILITY BOX		
POWER POLE/LIGHT		
CATCH BASIN EXISTING		
CURB INLET NEW		
STORM MANHOLE (NEW)	SD	
SANITARY MANHOLE (EXISTING)	SS	
SANITARY MANHOLE (NEW)	SS	
STORM AREA DRAIN (NEW)		
MAIL BOX		
UTILITY POLE		

VICINITY MAP



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DRIVEWAY DETAIL	SHT. 17		

No.	Revision/Issue	Date
DRAWN: RBK		

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**P21085 MAIN STREET PED CROSSING
41st & MAIN STREETS**

City of Springfield

PUBLIC WORKS / ENGINEERING
225 FIFTH STREET, SPRINGFIELD, OR 97477
PHONE (541) 726-3753 FAX (541) 736-1021
INTERNET www.ci.springfield.or.us



EXPIRES 12-31-15

GENERAL CONSTRUCTION NOTES:

GENERAL CONSTRUCTION NOTES

- A. ALL MATERIALS AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENTS SHALL MEET CURRENT CITY OF SPRINGFIELD DEPARTMENT OF PUBLIC WORKS "STANDARD CONSTRUCTION SPECIFICATIONS IN ADDITION TO THESE PLANS.
- B. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0100. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344 OR 811.
- C. LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. ALL UTILITIES MAY NOT APPEAR ON PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES FOR UNDERGROUND LOCATION OF FACILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING OR "POTHOLING". THE "ONE-CALL" NUMBER (800) 332-2344 OR 811.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES ON THE TIMING OF INSTALLATION OF THEIR FACILITIES.
- E. SPRINGFIELD CODE 10.2.1 REQUIRES NOTIFICATION OF OPEN TRENCHING FOR THE PROJECT TO ALLOW POSSIBLE COMMUNICATION CABLE INSTALLATION.
- F. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES NECESSARY TO PROTECT AND SAFEGUARD THE PUBLIC AND WORKERS AGAINST INJURY AND PROTECT THE WORK AGAINST DAMAGE. ALL TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING WORK. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), CURRENT EDITION, AS SUPPLEMENTED AND AMENDED BY THE OREGON SUPPLEMENTS. FLAGGING SHALL BE PERFORMED AS SHOWN IN THE THE "OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS", 2011 OR CURRENT EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL AS FIELD CONDITIONS WARRANT. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AT THE PRE-CONSTRUCTION CONFERENCE FOR CITY REVIEW AND APPROVAL.
- G. ALL SANITARY AND STORM SEWER CONNECTIONS TO EXISTING CITY OWNED FACILITIES (PIPE, CATCH BASINS, MANHOLES, ETC.) SHALL BE INSPECTED BY THE CONTRACTOR AND THE CITY'S PUBLIC WORKS MAINTENANCE DEPARTMENT PRIOR TO HOOK UP. CONTACT MAINTENANCE AT (541-726-3761) OR CITY CONSTRUCTION INSPECTOR NO LESS THAN 48 HOURS PRIOR TO DESIRED INSPECTION TIME.
- H. WHERE CONNECTING TO AN EXISTING PIPE. THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION AND ELEVATION, CONDITION, AND POSITIVE FLOW BEFORE LAYING ANY NEW PIPE ON THAT SYSTEM.
- I. THE SEWER GRADE SHALL BE PER THE PLANS SPECIFICATIONS AND WITH THE MINIMUM COVER AS SHOWN ON THE PLANS
- J. THE CONTRACTOR SHALL INTERNALLY TELEVISION INSPECT THE SEWER AFTER ALL BACKFILL AND BEFORE THE FINAL LIFT OF ASPHALT PAVING. THE CONTRACTOR SHALL SUPPLY THE CITY WITH A WRITTEN T.V. REPORT AND VIDEO TAPE OR DVD FOR CITY APPROVAL AT LEAST 2 WORKING DAYS BEFORE THE PRE-PAVING MEETING.
- K. CONTRACTOR TO SCHEDULE A PRE-PAVING CONFERENCE 24 HOURS PRIOR TO PAVING. CONTACT THE CONSTRUCTION INSPECTOR.
- L. ALL JOINTS BETWEEN EXISTING and NEW ASPHALT PAVING SHALL BE SEALED WITH POLYMERIZED ASPHALT AND SANDED TO PREVENT PICK UP.
- M. COMPACTION REQUIREMENTS:
- | LAYER | RATE | TEST |
|------------------------------|------|------|
| SUBGRADE | 95% | T99 |
| CRUSHED ROCK | 95% | T180 |
| ASPHALT (LOCAL) | 90% | RICE |
| ASPHALT (COLLECTOR/ARTERIAL) | 92% | RICE |
- N. CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS (PSI):
- | CONCRETE USE | FIELD | LABORATORY |
|--------------------|-------|------------|
| SIDEWALK/ADA RAMPS | 3000 | 3450 |
| CURBS/GUTTERS | 3500 | 4025 |
| DRIVEWAYS | 3500 | 4025 |
| PAVEMENT | 4000 | 4600 |
- O. THIS PROJECT SHALL COMPLY WITH THE AMERICAN DISABILITIES ACT REQUIREMENTS SUCH AS INCORPORATION OF DESIGN CRITERIA FOR RAMPS, MAXIMUM PROFILE AND CROSS SECTION SLOPES FOR SIDEWALKS, UPGRADING EXISTING FACILITIES WHERE MAJOR CONSTRUCTION IS OCCURRING, AND BUILDING WARNING FOR OBJECTS IN SIDEWALK SUCH AS CURBING OR LANDSCAPING AROUND MAILBOXES.
- P. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER AGENCIES WITH JURISDICTIONS SUCH AS LANE COUNTY, OREGON DEPARTMENT OF TRANSPORTATION, OREGON DIVISION OF STATE LANDS, THE ARMY CORPS OF ENGINEERS, OR THE DEPARTMENT OF ENVIRONMENTAL QUALITY.
- Q. ALL IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON STRUCTURAL SPECIALTY CODE, PLUMBING SPECIALTY CODE, AND/OR CITY OF SPRINGFIELD BUILDING DIVISION REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPLICABLE PERMITS FROM OTHER CITY DEPARTMENTS PRIOR TO DOING PRIVATE WORK.
- R. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. SEE EROSION CONTROL PLAN.
- S. STREET TREES: ONLY STREET TREES WITH A MINIMUM TRUNK CALIPER OF 2 IN. MEASURED 6 IN. ABOVE THE ROOT STEM SHALL BE SELECTED FOR PLANTING.
- T. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED BEFORE START OF CONSTRUCTION. ALL UTILITIES, CONTRACTORS and CITY REPRESENTATIVES SHALL HAVE RECEIVED THE FINAL APPROVED PLANS AT LEAST 5 WORKING DAYS PRIOR TO THE PRE CONSTRUCTION CONFERENCE.
- U. THE ENGINEER AND/OR CITY HAVE THE RIGHT TO REQUIRE ADDITIONAL WORK NOT SHOWN HEREIN BUT NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. STD.SPEC. 104.08.
- V. REQUESTS BY THE CONTRACTOR FOR CHANGES SHALL BE APPROVED BY THE ENGINEER AND THE CITY IN WRITING PRIOR TO IMPLEMENTATION.
- W. CONTRACTOR SHALL SUBMIT EVIDENCE OF INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATION TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- X. CONTRACTOR SHALL BE AWARE IF PAVING IS NOT SCHEDULED OR DOES NOT OCCUR PRIOR TO OCTOBER 15TH, WET WEATHER PROVISIONS INCLUDING ADDITIONAL ROCK SUBSTRUCTURE AND GEOTEXTILE FABRIC SHALL USED. REFER TO STANDARD SPECIFICATION SECTION 301.1.01 AND THE TYPICAL CROSS SECTIONS CONTAINED HEREIN FOR DETAILS
- Y. THE CONTRACTOR SHALL VERIFY EACH EXISTING SANITARY AND STORM CONNECTION.

No.	Revision/Issue	Date
DRAWN: RBK		

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**P21085 MAIN STREET PED CROSSING
41st & MAIN STREETS**

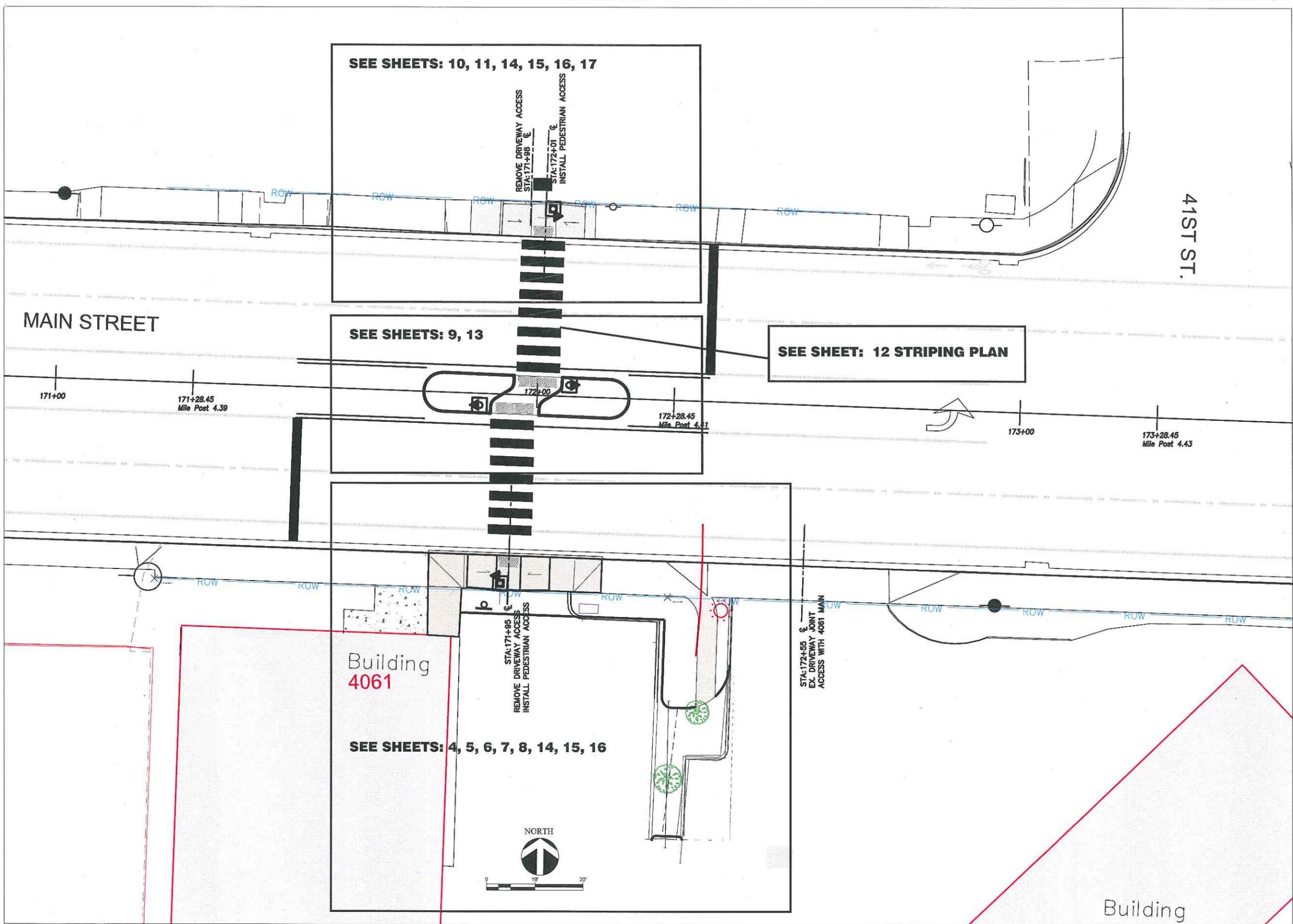
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225 FIFTH STREET, SPRINGFIELD, OR 97477
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EXPIRES 12-31-15

SHEET

2



OVER ALL PLAN VIEW

SCALE 1"=20'

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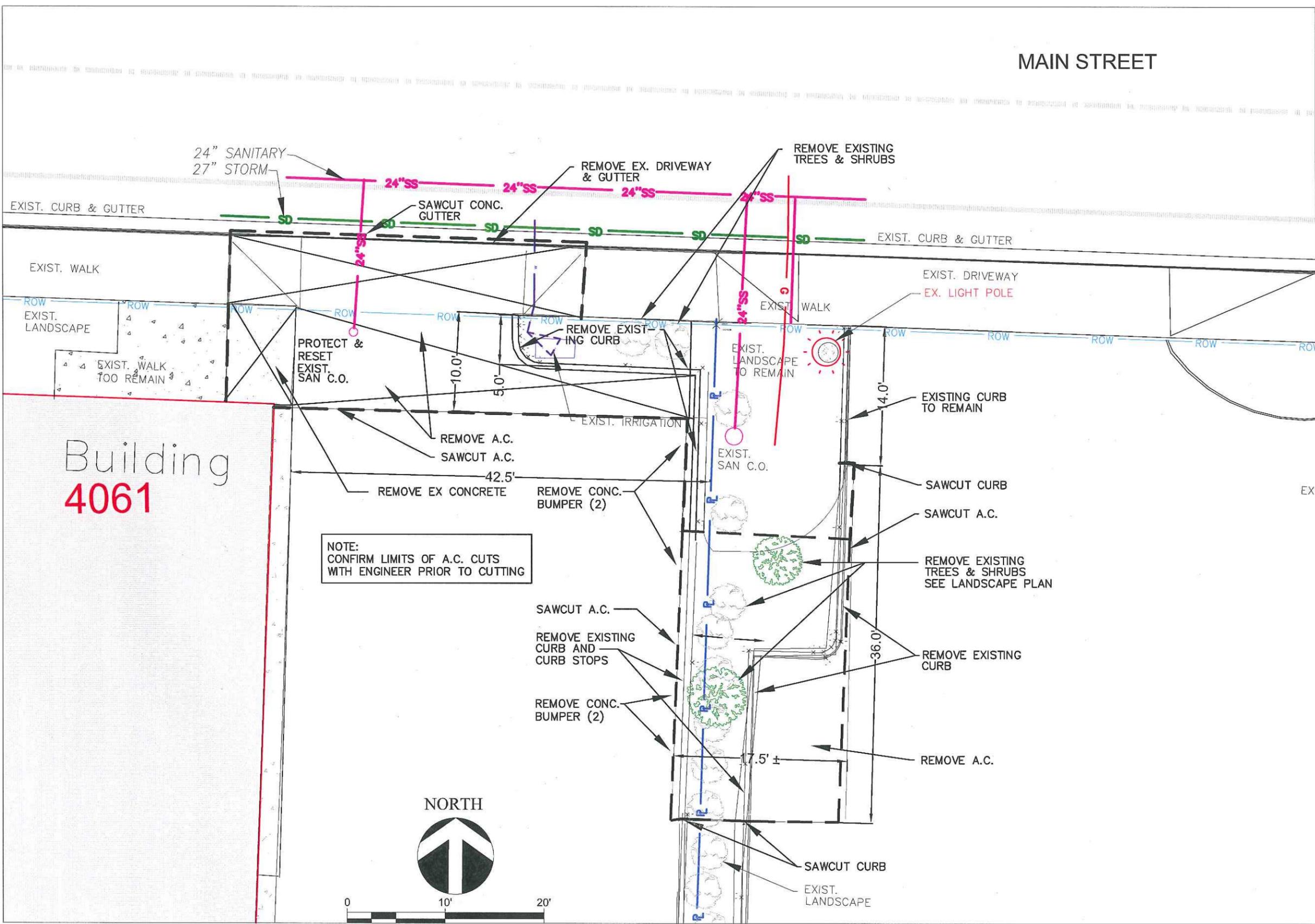
REGISTERED PROFESSIONAL
 ENGINEER
 19,692PE
 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT
 EXPIRES 12-31-15

SHEET
3

No.	Revision/Issue	Date

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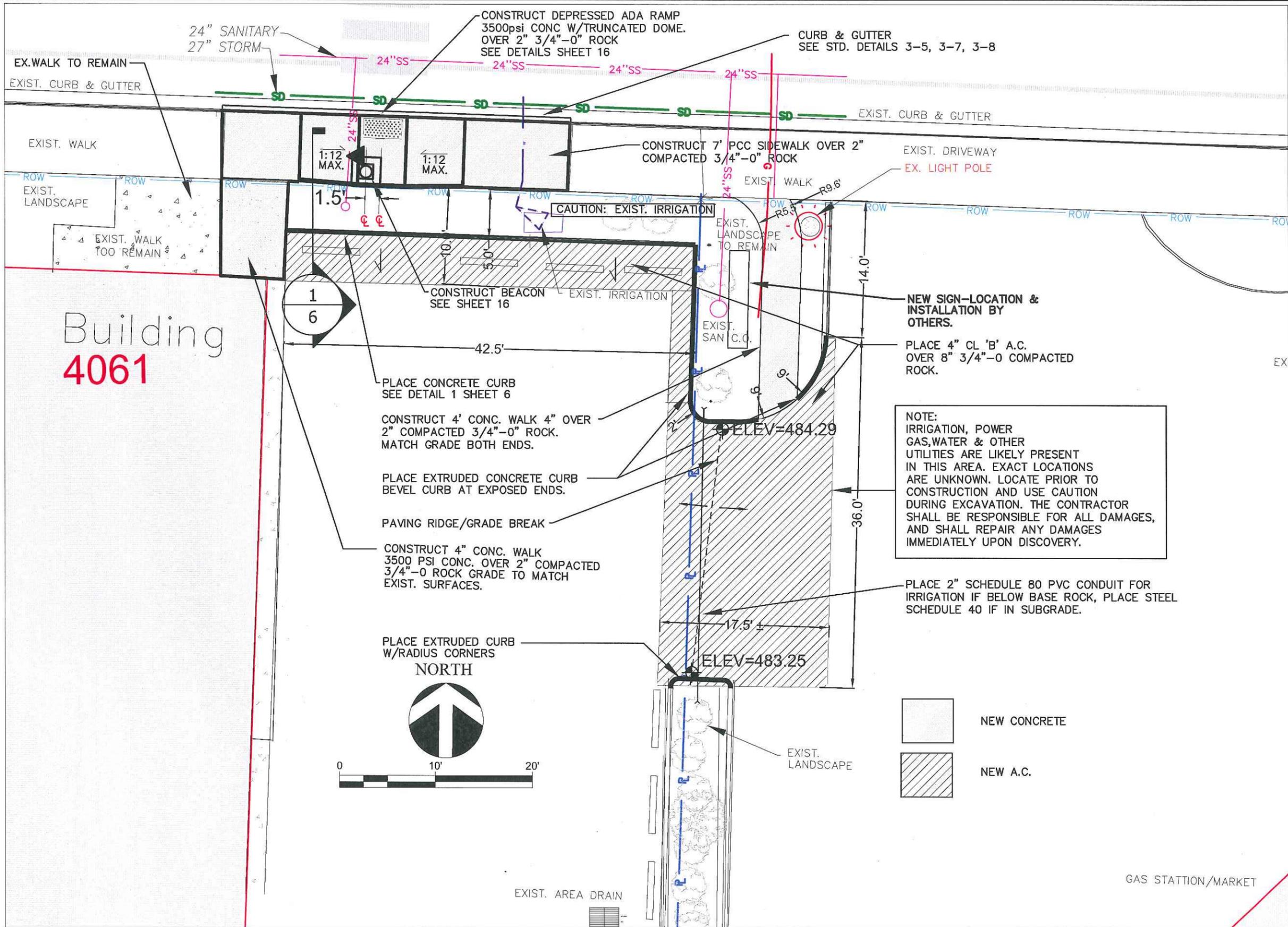
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EXPIRES 12-31-15

DEMOLITION S. PARKING

SCALE 1"=10'



S. PARKING CONSTRUCTION

SCALE 1"=10'

No.	Revision/Issue	Date

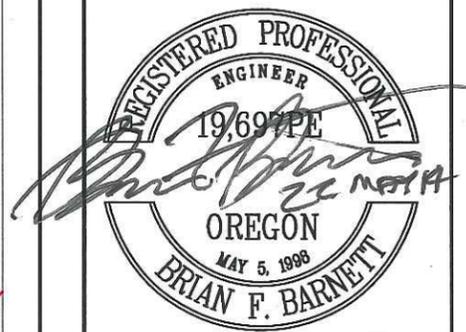
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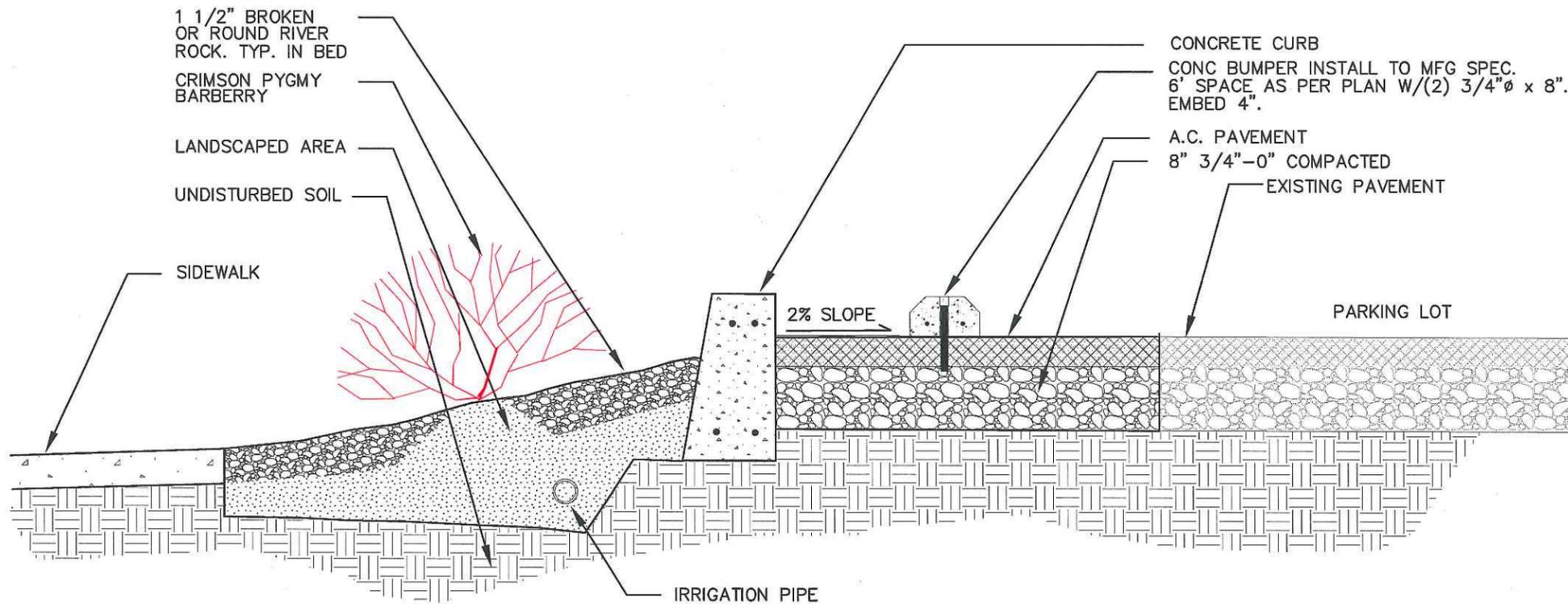
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EXPIRES 12-31-16



SECTION 1

NOT TO SCALE

No.	Revision/Issue	Date

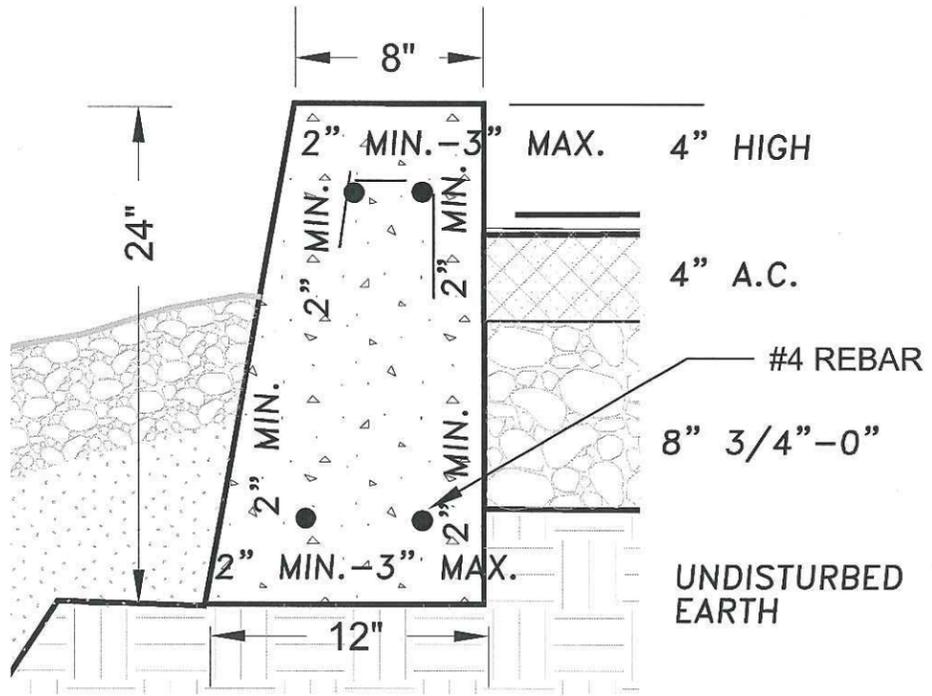
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CURB DETAIL

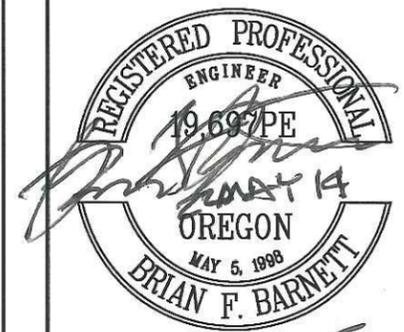
NOT TO SCALE

How To Plant Crimson Pygmy Barberry

Dig a hole twice as wide as and slightly shallower than, the root ball. Roughen the sides and bottom of the hole with a pick or shovel so that roots can penetrate the soil.

Gently remove the shrub from the container. Lay the shrub on its side with the container end near the planting hole. Hit the bottom and sides of the container until the root ball is loosened. If roots are growing in a circular pattern around the root ball, slice through the roots on a couple of sides of the root ball. Gently separate circling roots on the root ball. Shorten exceptionally long roots, and guide the shortened roots downward and outward. Root tips die quickly when exposed to light and air, so don't waste time.

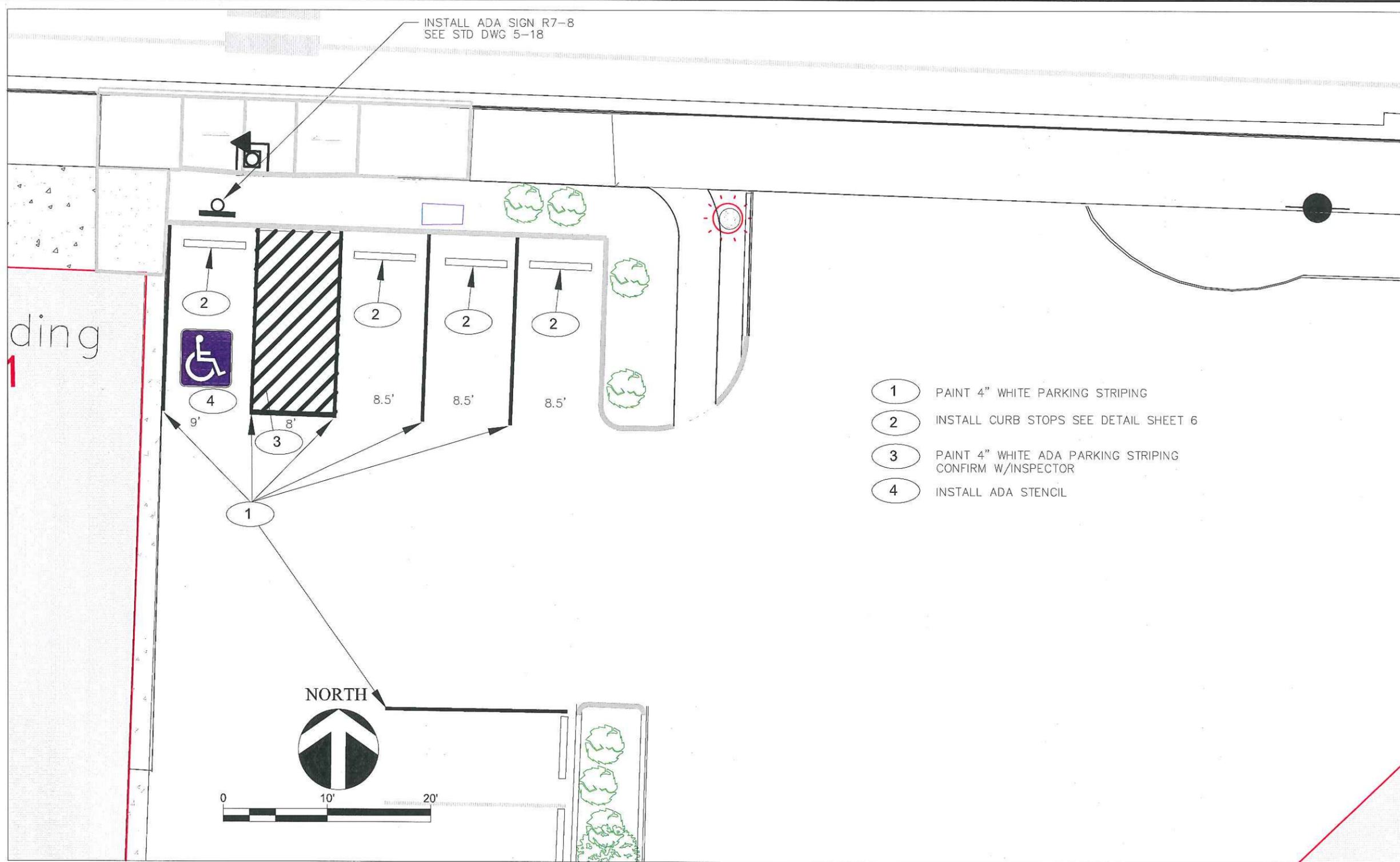
Place the root ball in the hole. Leave the top of the root ball (where the roots end and the trunk begins) 1/2 to 1 inch above the surrounding soil, making sure not to cover it unless roots are exposed. Do not set shrubs too deep. As you add soil to fill in around the shrub, lightly tamp the soil to collapse air pockets, or add water to help settle the soil. Apply a 3'-4' layer of mulch around the base of the bush to retain moisture and cut down on weeding. Water 2-3 times (1'-2') a week unless it rains.



EXPIRES 12-31-15

SHEET

6



- 1 PAINT 4" WHITE PARKING STRIPING
- 2 INSTALL CURB STOPS SEE DETAIL SHEET 6
- 3 PAINT 4" WHITE ADA PARKING STRIPING CONFIRM W/INSPECTOR
- 4 INSTALL ADA STENCIL

S. PARKING PAVEMENT MARKINGS

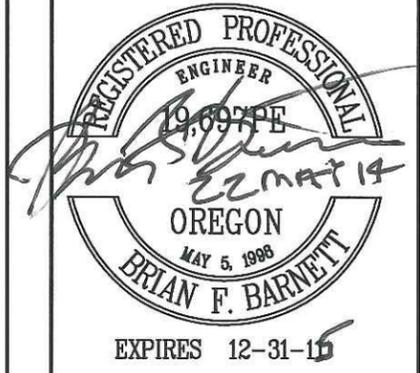
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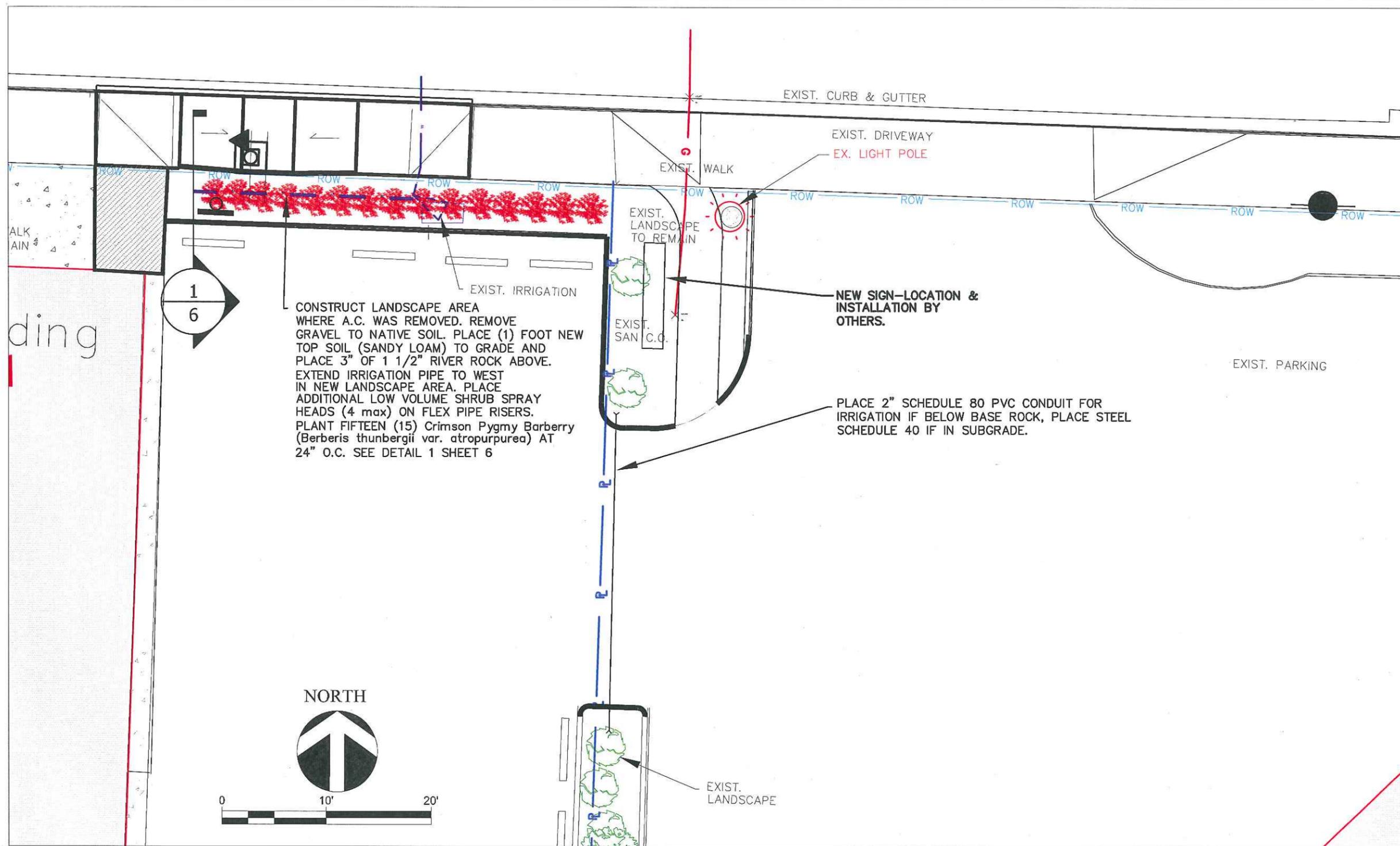
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SHEET

7



S. PARKING LANDSCAPE

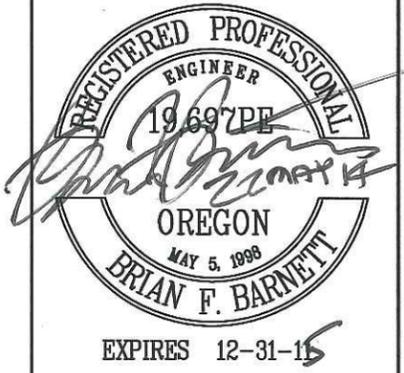
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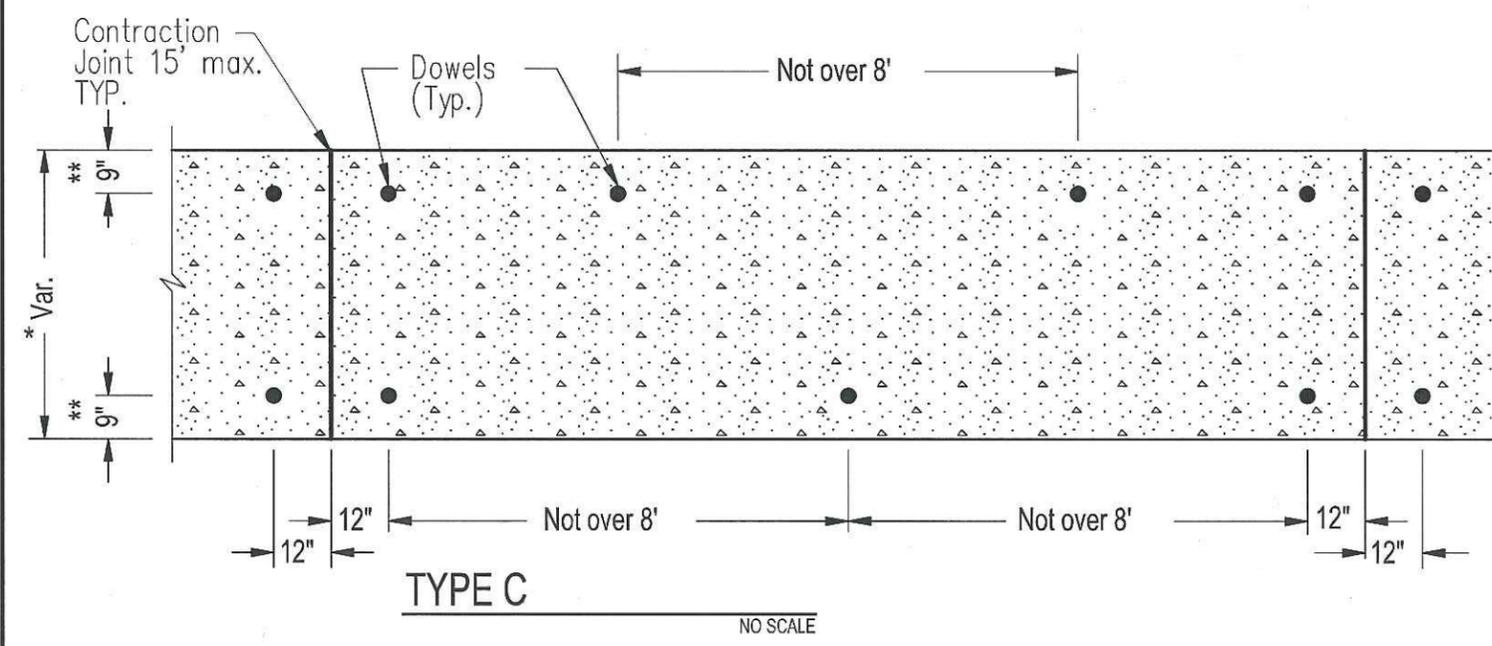
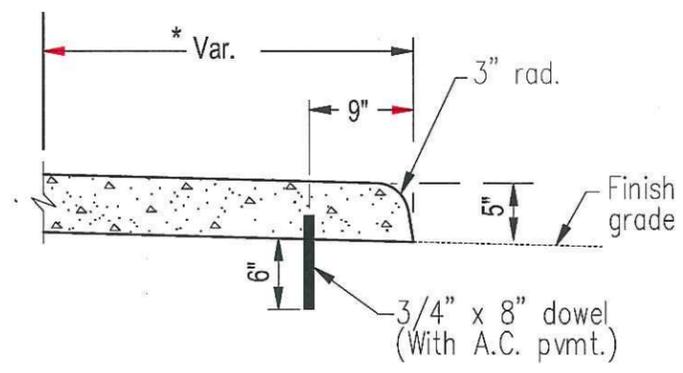
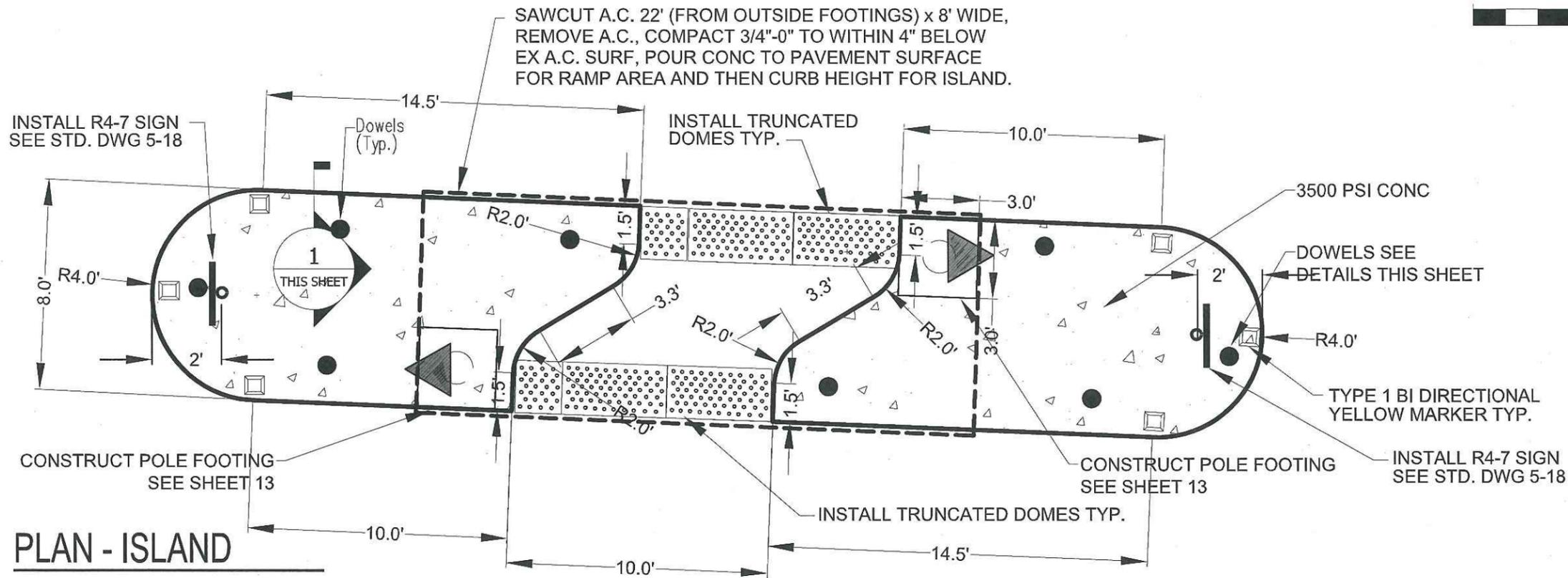
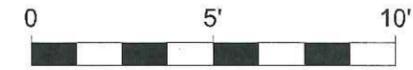
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Rev. No. Revision/Issue Date

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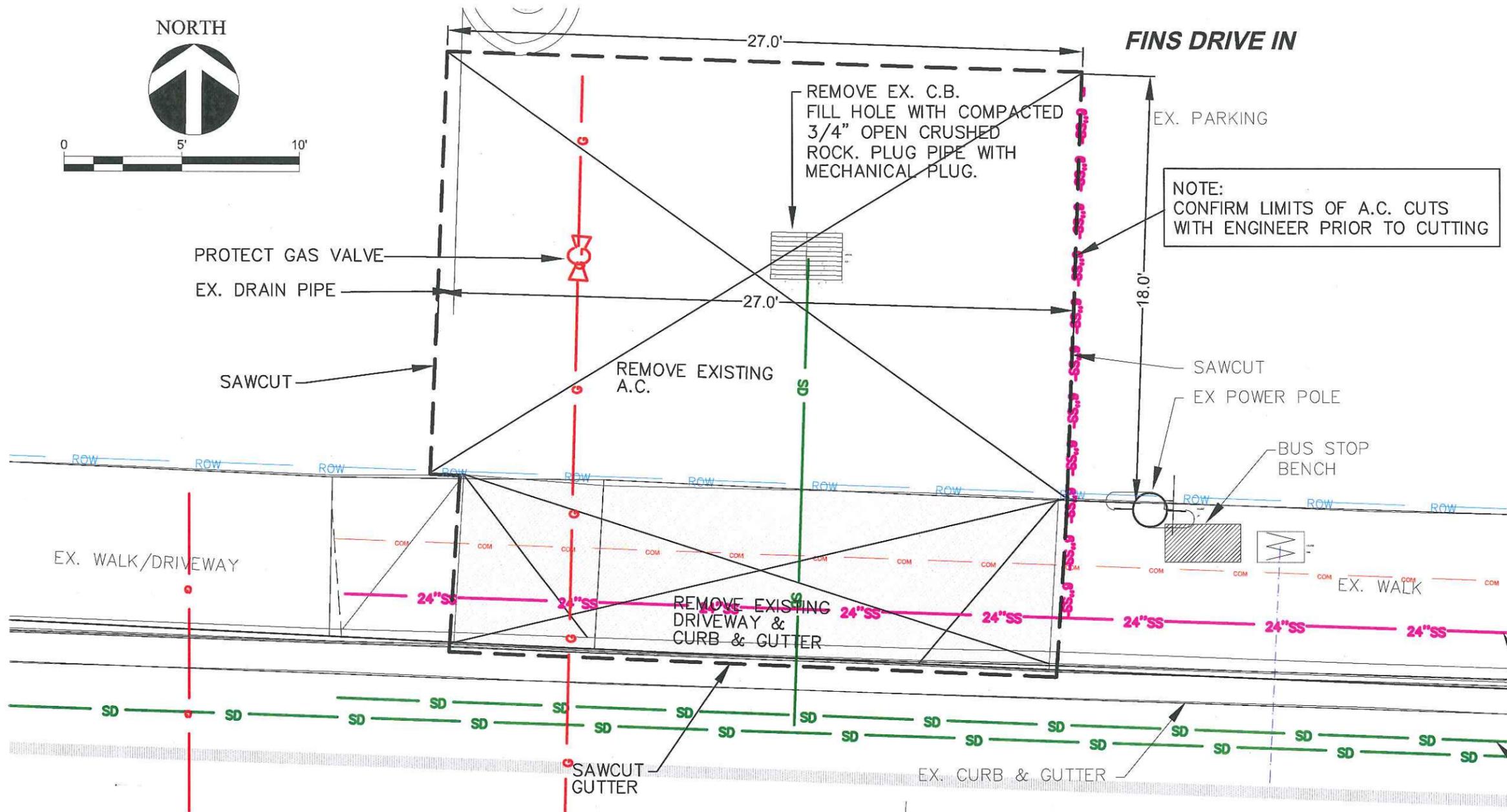
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REGISTERED PROFESSIONAL ENGINEER
1969 TYPE
OREGON
MAY 5, 1998
BRIAN F. BARNETT

EXPIRES 12-31-15

NORTH



DEMOLITION N. PARKING

SCALE 1"=5'

No.	Revision/Issue	Date

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 PHONE: 503-325-1341 FAX: 503-325-1342
 INTERNET: www.cityofspringfield.or.us

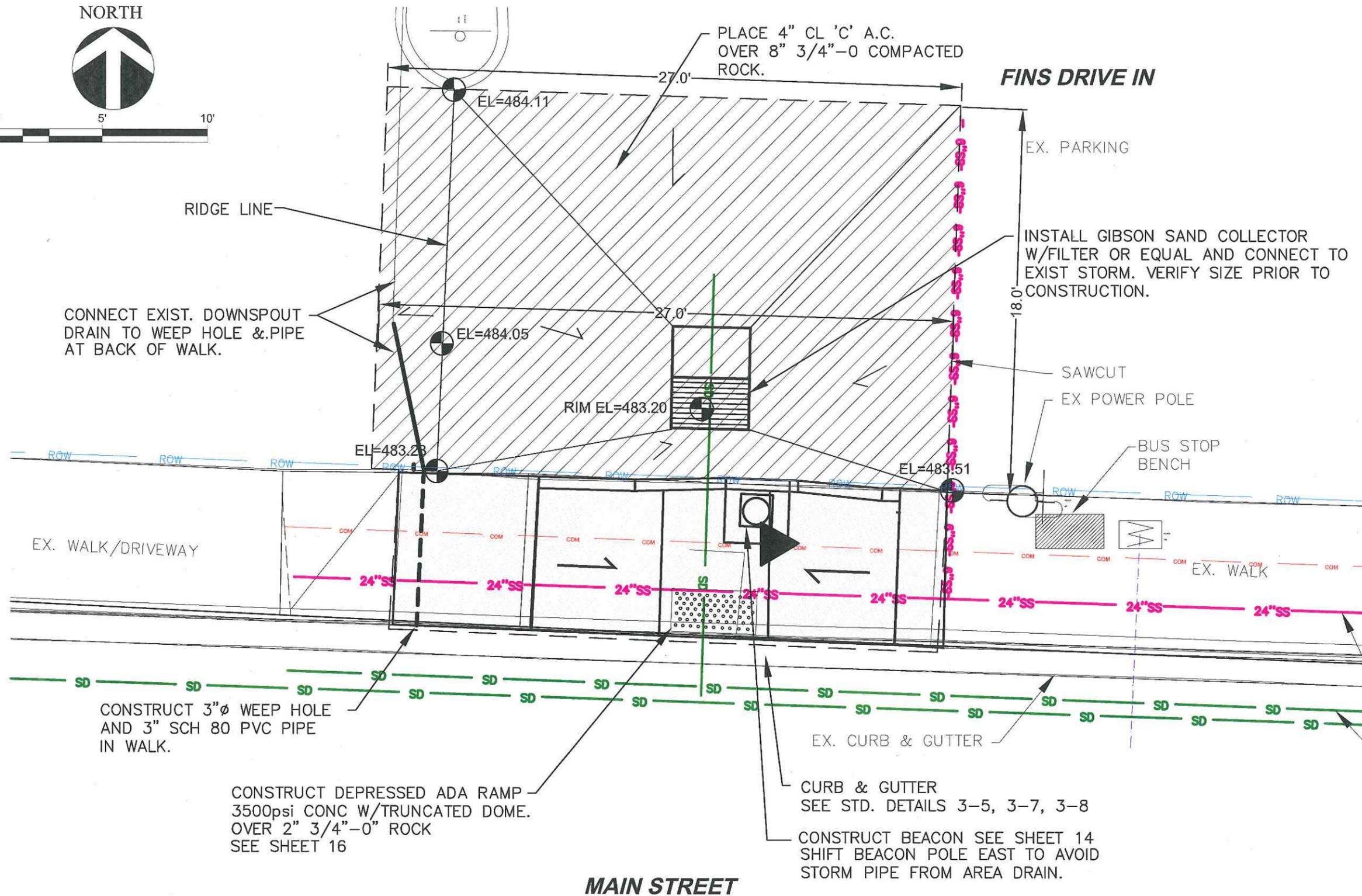


EXPIRES 12-31-11

SHEET

10

NORTH



N. PARKING CONSTRUCTION

SCALE 1"=5'

Fig.	Revision/Issue	Date

NOTE:

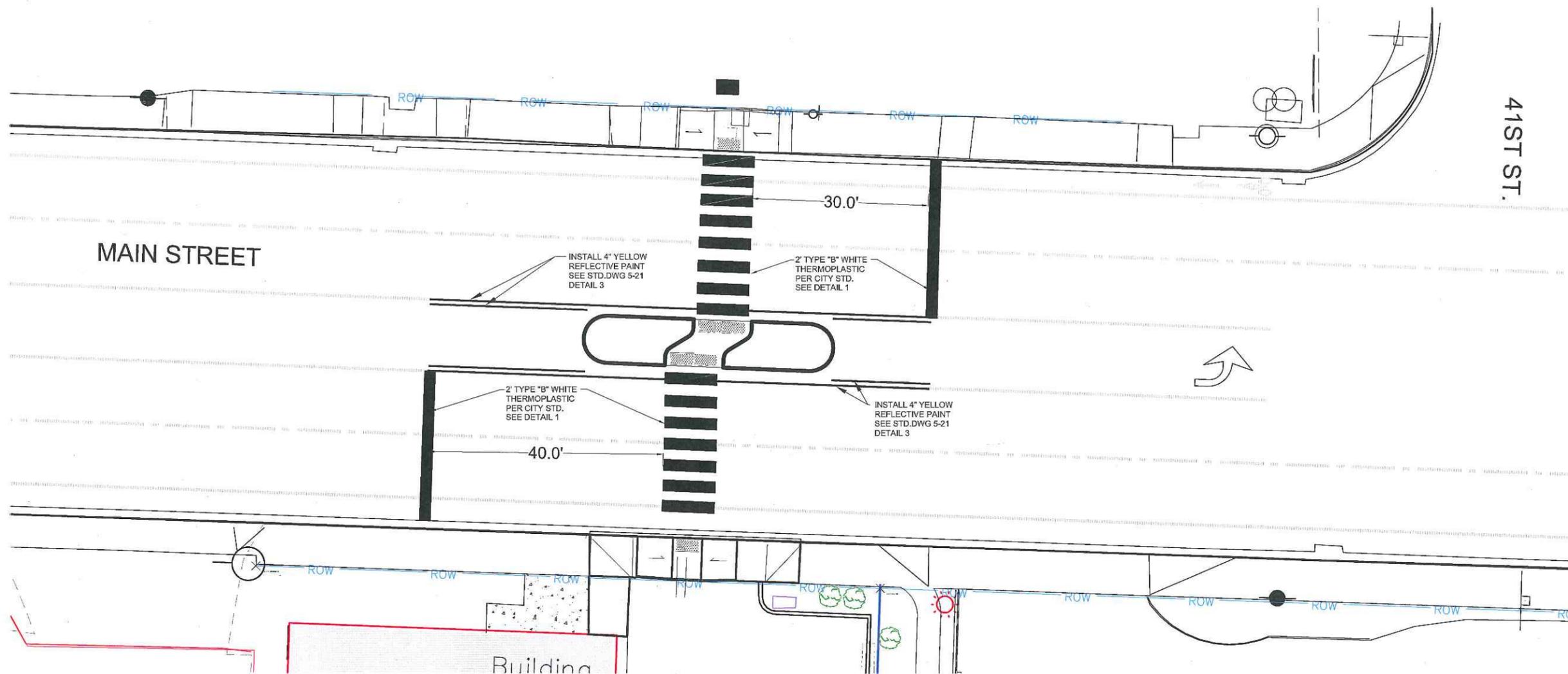
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REGISTERED PROFESSIONAL
ENGINEER
19,697PE
OREGON
MAY 5, 1998
BRIAN F. BARNETT
EXPIRES 12-31-15



STREET STRIPING PLAN VIEW

SCALE 1"=20'

41ST ST.

NOTE:

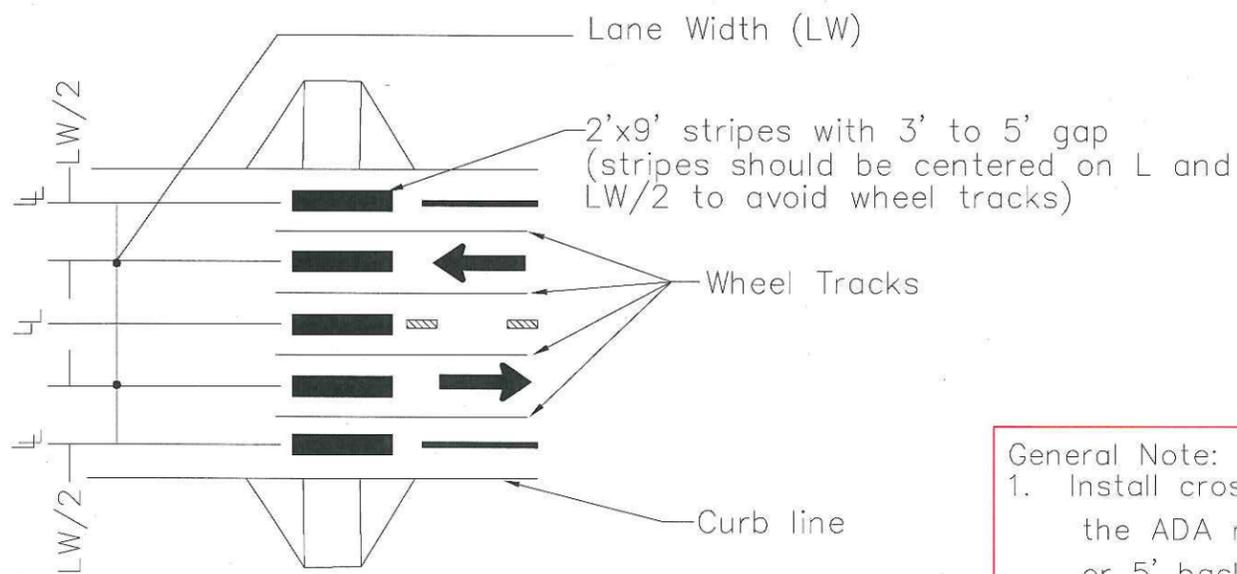
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**P21085 MAIN STREET PED CROSSING
41st & MAIN STREETS**

City of Springfield

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DETAIL 1 - STAGGERED CONTINENTAL LAYOUT

General Note:

1. Install crosswalk bars such that the throat of the ADA ramp is entirely within crosswalk markings, or 5' back of extended fog line, edge of pavement, or curb face.

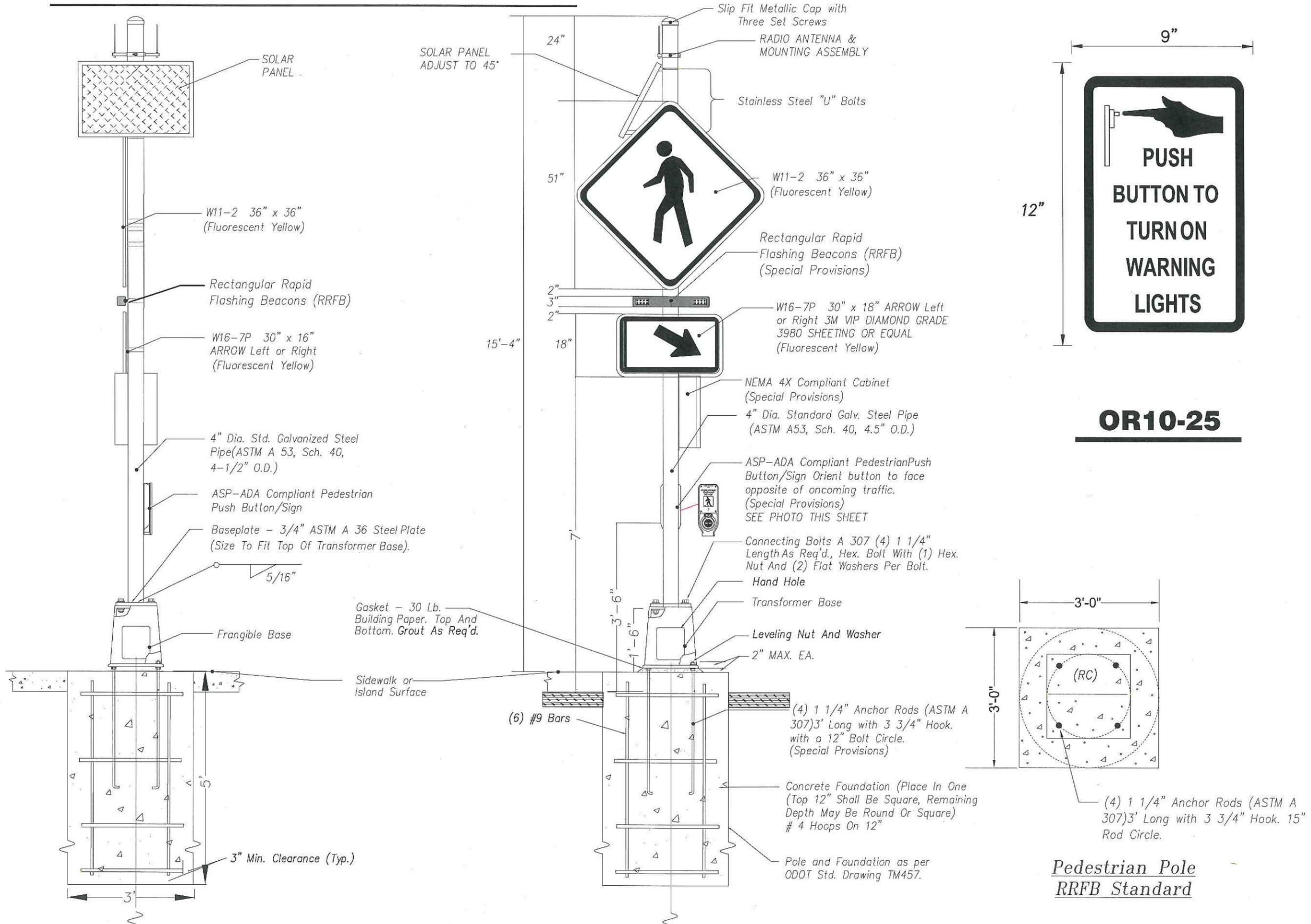


EXPIRES 12-31-15

SHEET

12

PEDESTRIAN POLE AT ISLAND



Rev. _____ Date _____
 Revision/Issue _____
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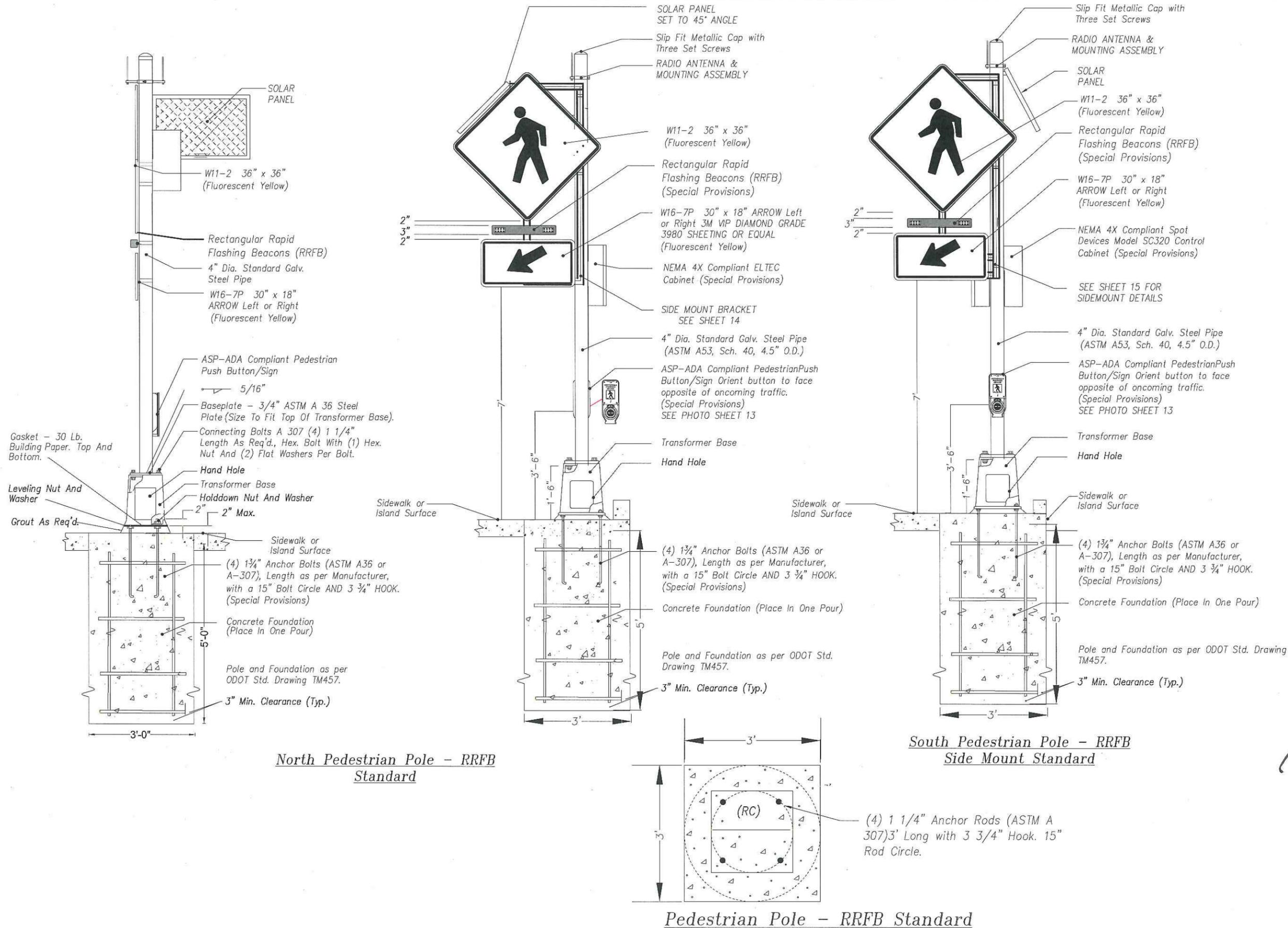
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EXPIRES 12-31-11

*Pedestrian Pole
 RRFB Standard*

PEDESTRIAN POLE AT N. & S. SIDE OF STREET



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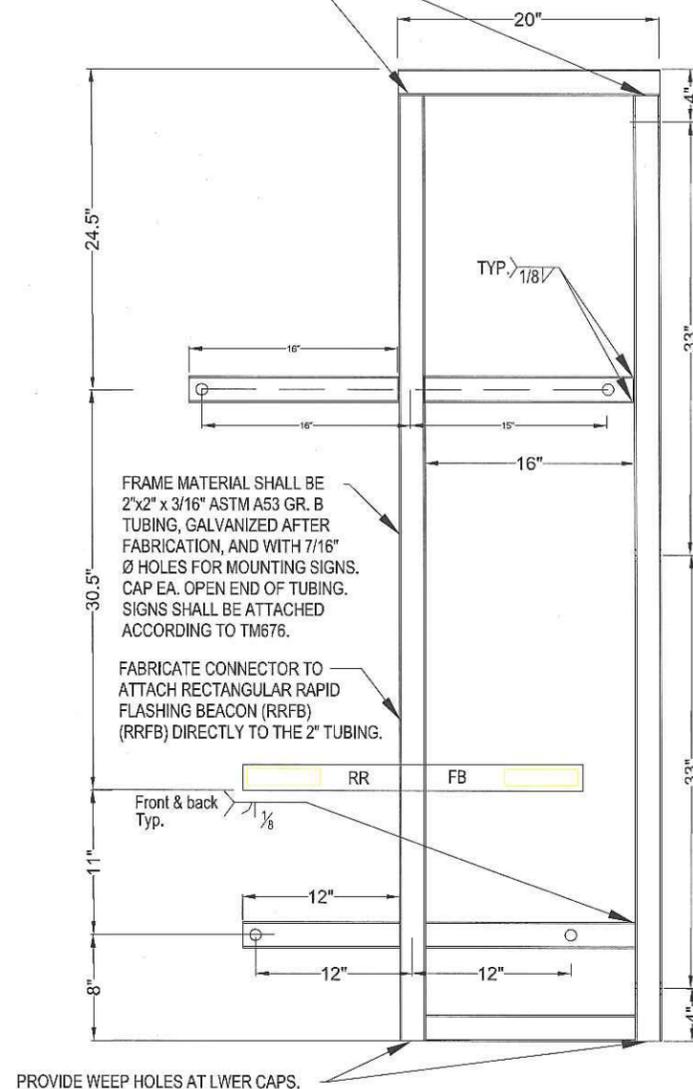
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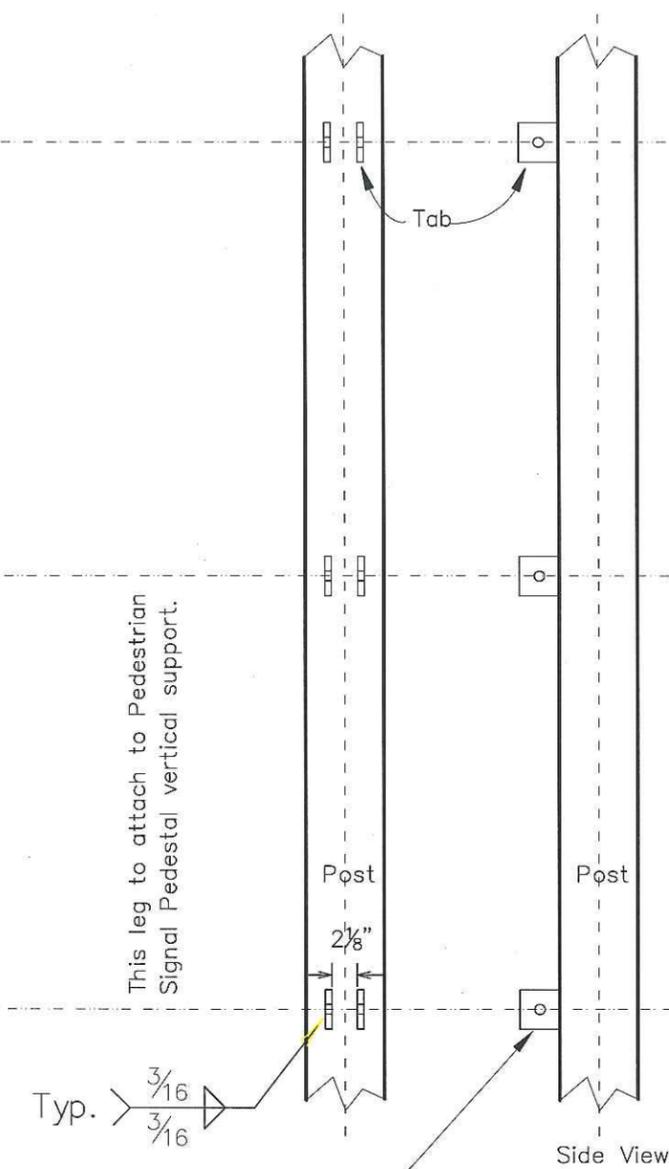
REGISTERED PROFESSIONAL ENGINEER
 19697PE
 OREGON
 MAY 5, 1998
 BRIAN F. BARNETT
 EXPIRES 12-31-15

SUPPORT FRAME

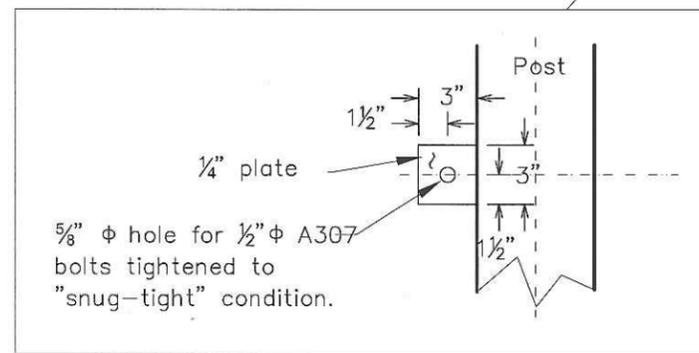
DRILL MIN. 1" Ø HOLE TO THREAD WIRE THROUGH FRAME.



SIGN MOUNTING DETAILS



SUPPORT FRAME



RRFB Side Mount Detail

No.	Revised/Issue	Date

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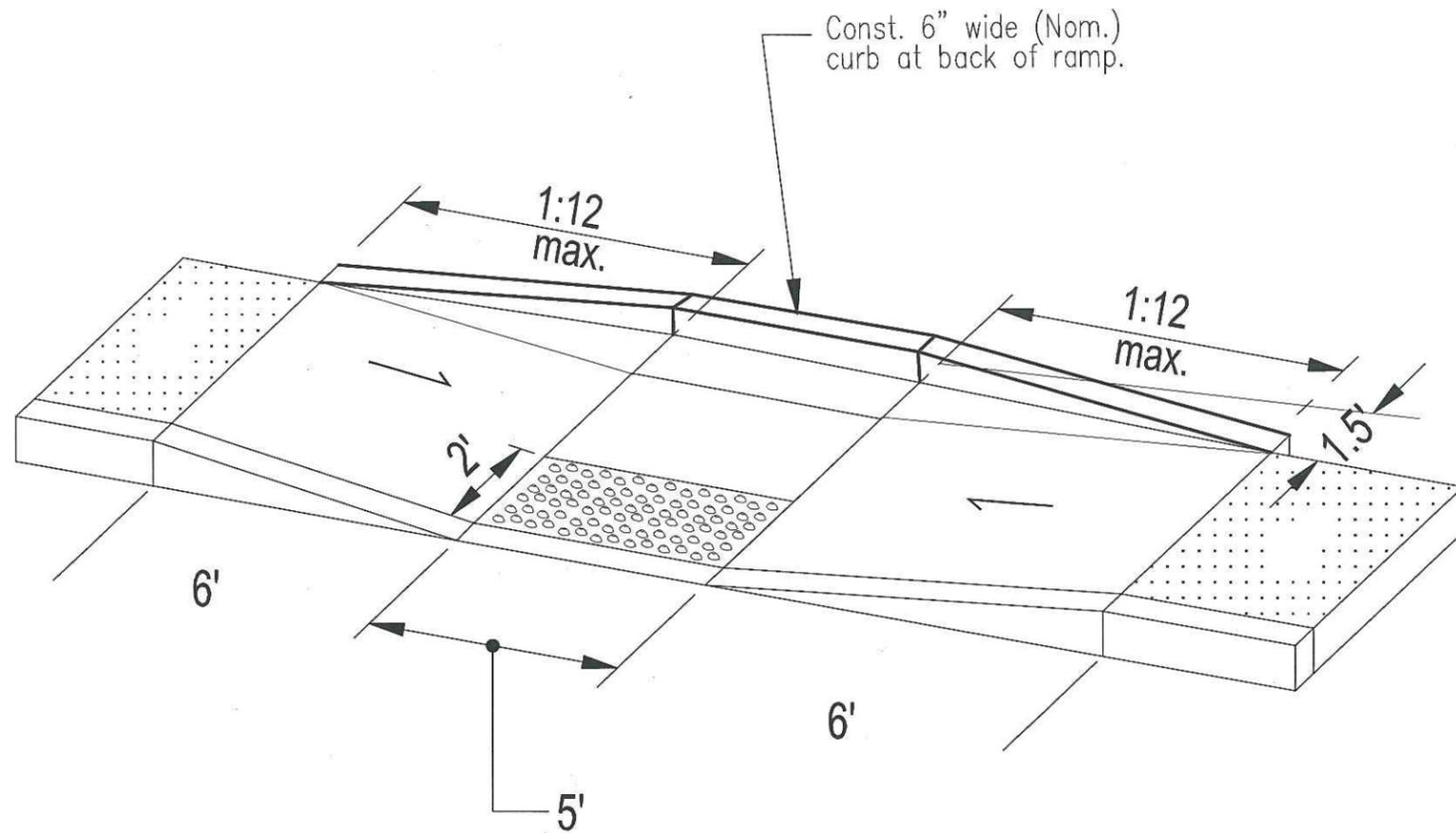
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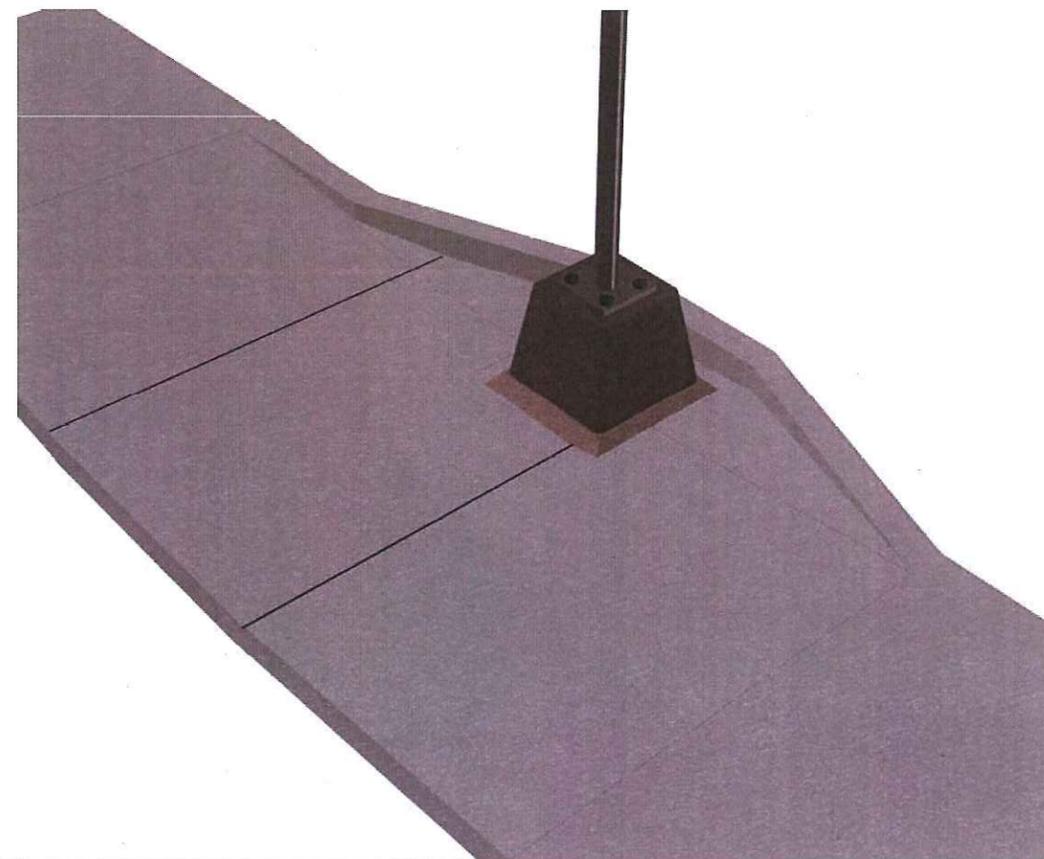
EXPIRES 12-31-15



PARALLEL SIDEWALK RAMP DETAIL

GENERAL NOTES FOR ALL DETAILS:

1. Sidewalk ramp details are based on United States Access Board Standards.
2. Tooled joints are required at all sidewalk ramp slope break lines.
3. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
4. Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
5. Side flares that are not part of the path of travel may be any slope.
6. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
7. Ramps for paths intersecting a roadway should be full width of path, excluding flares.
8. Only use details allowed by jurisdiction.



No.	Revision/Issue	Date

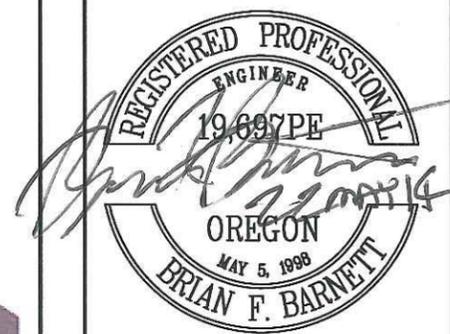
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EXPIRES 12-31-11

SHEET

16

NOTES:

1. PLACE INLET/CATCH BASIN PROTECTION AT EXISTING FIXTURES (SEE DETAIL ON SHEET E2.)

GENERAL NOTES:

1. CONCRETE WASHOUTS ARE NOT PROVIDED ON THIS PROJECT
2. SAW CUTTING SLURRY IS TO BE VACUMED
3. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) SHALL BE IMMEDIATELY STABILIZED WITH AN APPROVED ESC METHOD (SEEDING & MULCHING WITH STRAW, BARK, COMPOST, OR PLASTIC COVERING, ETC.).

EROSION CONTROL STANDARD NOTES:

- | | |
|--|---|
| <p>A. Approval of this Erosion and Sedimentation Control Plan (ESCP) does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).</p> <p>B. Approval of this ESCP does not relieve the permit holder and or the contractor from all other permitting requirements. Prior to beginning construction activities, all other necessary approvals shall be obtained.</p> <p>C. An inspection of the erosion control measures by City LDAP staff is required prior to any ground disturbance on the site.</p> <p>D. The erosion and sediment control measures shown on the plan are the minimum requirements for anticipated site conditions. During the construction period, these measures shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site.</p> <p>E. The implementation of the ESCP and the construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the permit holder and or the contractor until all construction is completed and accepted by the City and vegetation/landscaping is established per the required warranty period.</p> <p>F. In the event the ESC facilities identified on the ESCP are not functioning properly, the contractor is responsible for immediately implementing changes to the ESCP as directed by the ESCP engineer or his inspector. The engineer, his inspector or the City may stop all construction activity on site until the erosion problem is corrected and all ESC facilities are functioning properly. If the contractor does not immediately implement changes to the ESCP identified by the ESCP engineer or his inspector, the City may implement the necessary changes and require payment from the contractor prior to project acceptance by the City.</p> <p>G. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field by the engineer prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the permit holder and or the contractor for the duration of construction.</p> <p>H. The erosion and sediment control measures on active sites shall be inspected and maintained daily and within the 24 hours after any storm event of greater than 0.5 inches of rain per 24 hour period. Measures shall be inspected by the permit holder and or the contractor after each rainfall and at least daily during prolonged rainfall. Any required repairs or adjustments shall be made immediately. The erosion and sediment control measures on inactive sites shall be inspected a minimum of once every two (2) weeks or within 48 hours following a storm event. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (October 1 to April 30) and of monthly reviews during the dry season (May 1 to September 30).</p> <p>I. All erosion and sediment control measures shall be protected from damage at all times. Control measures shall remain in place until permanent or temporary re-vegetation has been stabilized. Any measure that is damaged or destroyed shall be repaired or replaced immediately.</p> | <p>J. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season (October 1 to April 30) or seven days during the dry season (May 1 to September 30) shall be immediately stabilized with an approved ESC method (seeding & mulching with straw, bark, compost, or plastic covering, etc.).</p> <p>K. A supply of materials necessary to meet compliance and implement the LDAP or other best management erosion practices under all weather conditions shall be maintained at all times on the construction site.</p> <p>L. No hazardous substances, such as paints, thinners, fuels and other chemicals shall be released onto the site, adjacent properties, or into water features, the City's storm water system, or related natural resources.</p> <p>M. Street sweeping shall be performed as needed or when directed by the City inspector to ensure public right-of-ways are kept clean and free of debris. Street flushing is prohibited.</p> <p>N. When trucking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on site until dripping has been reduced to no more than one gallon per hour. Sediment laden water will not be allowed to enter the storm water system</p> <p>O. Extracted ground water from excavated trenches shall be disposed of in a suitable manner without damage to adjacent property, public storm water system, water features, and related natural resources. Approval of a dewatering system does not guarantee that it will meet compliance or be acceptable for use in all situations. Modifications to the dewatering system will be required if compliance can not be met. At no time will sediment laden water be allowed to leave the construction site.</p> <p>P. At no time shall more than one foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.</p> <p>Q. Any required stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.</p> <p>R. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity.</p> <p>S. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of two to three inches.</p> <p>T. In preparation of the wet season, all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. A sketch map of those areas to be seeded and those areas to remain uncovered shall be submitted to the City by September 15. The City can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities. Disturbed areas identified for seeding shall be seeded prior to the beginning of the wet season (October 1).</p> |
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No.	Revision/Issue	Date

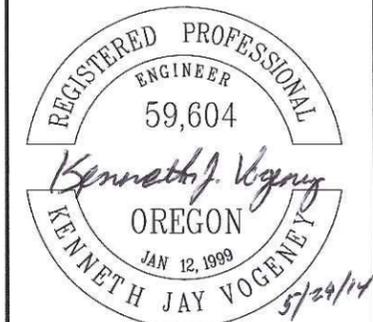
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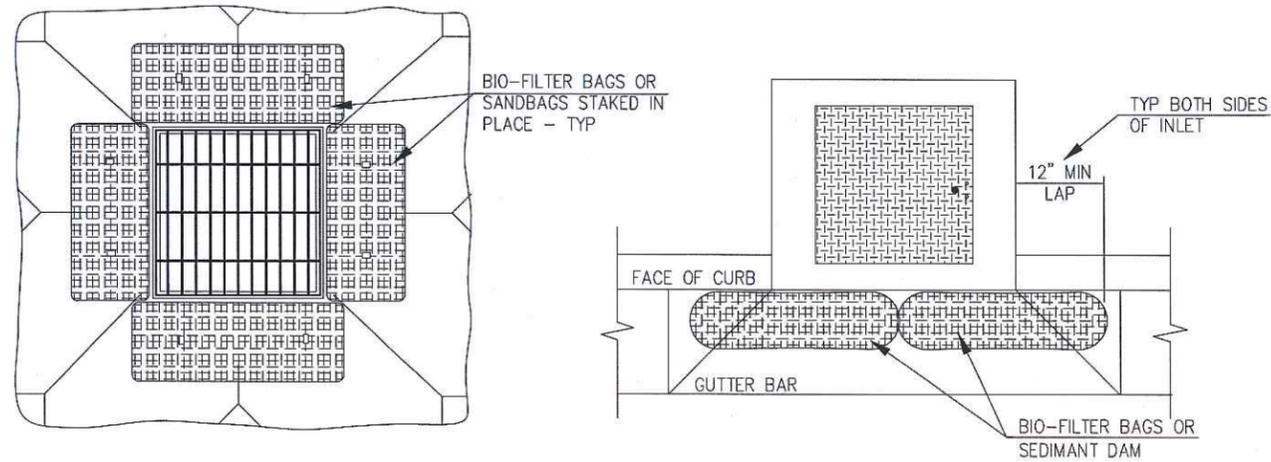
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EXPIRES 6/30/14

SHEET

E1

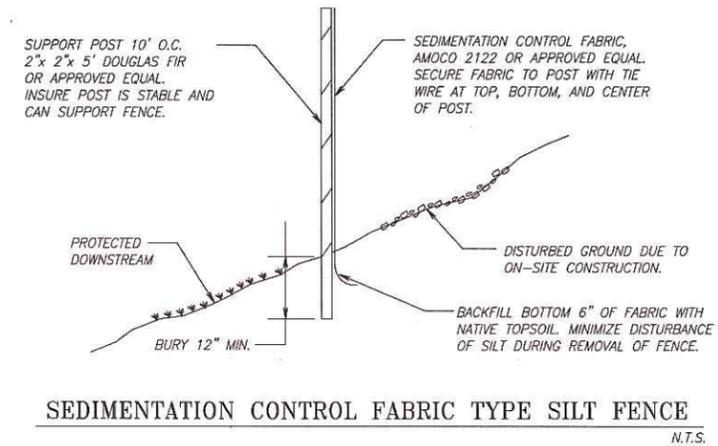
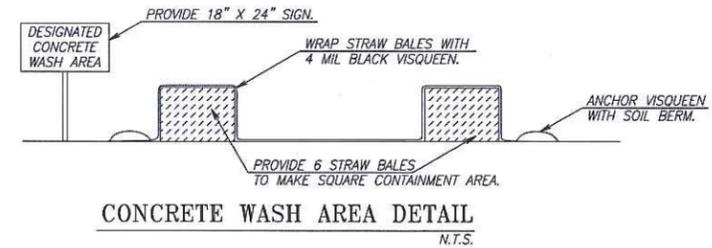


NOTES
 1. PRIOR TO 1st PAVEMENT LIFT, REMOVE BIO-BAG/SANDBAG BARRIERS AND INSTALL BASIN INSERT BAG OR CURB INLET SEDIMENT DAM AT ALL INLET STRUCTURES.

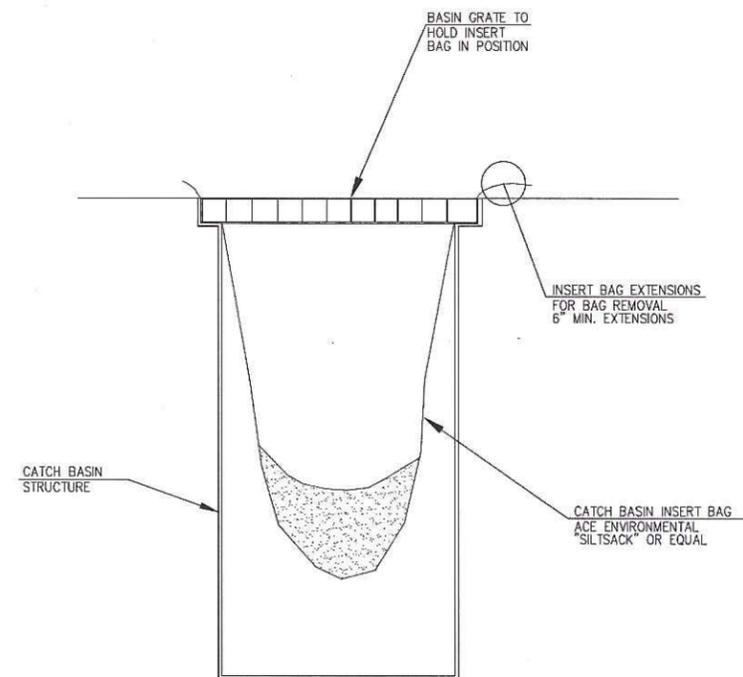
1 DRAINAGE INLET STRUCTURE PROTECTION
 NO SCALE



INLET PROTECTION



SEDIMENTATION CONTROL FABRIC TYPE SILT FENCE
 N.T.S.



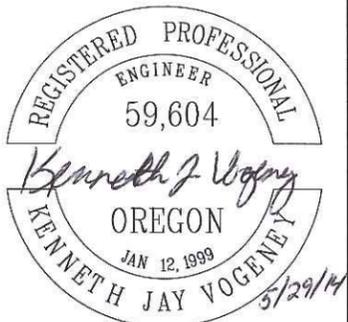
1 CATCH BASIN INSERT BAG
 NO SCALE

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EXPIRES 6/30/14

SHEET

E2