CALKINS-TROOST-RAINBOW-HAGGERTY STORM LINE REPLACEMENT
ADDENDUM #1

Project:	Calkins-Troost-Rainbow-Haggerty Storm Line Replacement	**Prepared by:**	Cole Riley, EIT Erik Ranger, PE i.e. Engineering, Inc 809 SE Pine St. Roseburg, OR 97470
Owner:	City of Roseburg 900 SE Douglas Ave Roseburg, OR 97470		

Response date: 03.23.2023 **Bid date:** 03.28.2023

1.0 NOTICE TO ALL BIDDERS AND PLAN\HOLDERS

The Contract Documents for the above-referenced Project are modified as set forth in this Addendum. The original Contract Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Contract Documents. Bidder shall take this Addendum into consideration when preparing and submitting a bid, and shall acknowledge receipt of this Addendum in the space provided on the Bid Form.

2.0 BID SUBMITTAL DEADLINE

The bid submittal deadline remains the same and is not changed by this Addendum.

3.0 PROJECT BID BOOKLET

1. The following quantities on the bid form (pages 16-19) were revised to match with the project plans:

    a. BI #10, 18 INCH STORM SEWER PIPE, quantity changed to 805 feet of pipe, previously 700 feet of pipe

    b. BI #11, 21 INCH STORM SEWER PIPE, has been revised to FILLING ABANDONED 18-INCH PIPE, quantity changed to 20 feet of pipe, Spec. Sect # changed to 490.

    c. BI #13, 36 INCH STORM SEWER PIPE, quantity changed to 250 feet of pipe, previously 185 feet of pipe

    d. BI #16, CONCRETE MANHOLES, 48”, quantity changed to 7, previously 9

    e. BI #30, FILLING ABANDONED 12-INCH PIPE, quantity changed to 600 feet of pipe, previously 500 feet of pipe

    f. BI #31, FILLING ABANDONED 8-INCH PIPE, quantity changed to 275 feet of pipe, previously 200 feet of pipe

g. BI #41, PIPE TEE, 24-INCH, this bid item was added to the bid form with a quantity of 1 each.

4.0 PROJECT SPECIAL PROVISIONS

1. Subsection **00405.46(c)(1) General** is incorrect. Class E backfill is not required. The following section in the special provisions is to be removed:

   00405.46(c)(1) General - Replace the paragraph that begins with "Use Class B trench Backfill….", with the following:

   Use Class E Backfill for trenches located in Harvard Avenue. All other trenches to be Class B.

2. Subsection **00220.60(a)(1)** in the special provisions has been revised to address the use of hot mix and cold mix asphalt as a temporary patch.

   00220.60(a)(1)– Add the following bullet to this section:

   At the end of each working day, backfill all excavations in areas completed to match the existing surface with permanent backfill material, except in Harvard Avenue, which will be patched with 2-inches of asphalt at the end of each shift. Temporary asphalt patch in Harvard can be cold mix during week days while actively working but must be patched with hot mix at the end of the work week or when not actively working for two days or more. Cover with steel plates areas where pipe has not been installed and further work will continue. Steel plates shall be pinned and have asphalt taper edges. At the end of each work week, provide a temporary AC patch in the excavated trench in areas of traffic or permanently restore the trench surface unless agreed upon with the owner. No steel plates will be allowed in Harvard Avenue during the Graffiti Weekend. All trenches shall be AC during graffiti weekend.

3. Items 22 and 23 in subsection **00190.15 Payment Summary** have been revised. Both items now include the installation of "DRAINS TO RIVER" markings.

   22. CONCRETE INLETS, TYPE G-2 W/ FILTER Payment for furnishing and installing concrete G-2 inlets with stormwater quality filter and "DRAINS TO RIVER" thermoplastic marking including all work and materials required to perform saw cutting and pavement removal, excavation to depth shown on Drawings, spoils removal and disposal, removal and installation of curb and gutter three feet either side of structure, installation of rock backfill, and connection to all new pipes will be on the unit basis. Filters to be brands Flexstorm, Flogard+, or approved equal.

   23. INSTALL CATCH BASIN FILTER IN EXISTING STRUCTURE Payment for furnishing and installing stormwater quality filter and "DRAINS TO RIVER" thermoplastic marking including all work and materials required to install per manufacturer's recommendations will be on the unit basis. Filters to be brands Flexstorm, Flogard+, or approved equal.

5.0 PROJECT PLANS

The following changes are made to the Project Plans:

1. Plan sheet C.4, C.6, C.7, C.8, C.9, and C.10 are replaced with revised attached plan sheets. The following is a summary of the revisions.

   a. On Sheet C.6, the size of the 105 feet of storm sewer pipe, between STA 31+12.75 and 32+17.69, has been changed to an 18" pipe, was previously a 21" pipe.

b. On Sheet C.8, the stationing for manholes at STA 42+01.90, 43+99.30, 45+16.18, 46+13.41 were revised to match the stationing shown on the plan and profile. They were changed to the following, respectively: STA 42+02.12, 43+99.52, 45+16.41, 46+03.63.

c. On Sheet C.8, the rim elevation for the manhole at STA 45+16.41 (originally STA 45+16.18 prior to addendum) was revised to match the existing finished grade of 456.43

d. On Sheet C.9, the labels for the manhole at STA 52+52.20 were added to the profile, which include rim and invert elevations.

e. On Sheet C.9, the label for the manhole at STA 56+14.75 were revised so that "18-IN INVERT IN (S)" to the manhole is now 461.00, was previously 465.00.

f. On Sheet C.10, the 12" invert out elevation for the Type D inlet at STA 60+19.69 was changed from 462.80 to 462.00 to allow for greater clearance between the drainage pipe and structure's inlet grate.

g. On Sheet C.4, note 24 has been added for removal of existing catch basin. This is paid under BI #5.

h. On Sheets C.6, C.7, and C.10, the notes that begins "ABANDON EXISTING STS PIPE IN PLACE, ……" has been revised to remove the language " GREATER THAN 12". All pipe sizes to be filled where shown.

END OF ADDENDUM

REGISTERED PROFESSIONAL ENGINEER
72679PE
OREGON
NOVEMBER 13, 2015
ERIK D. RANGER

Erik Ranger

Digitally signed by Erik Ranger
Date: 2023.03.23 10:32:13-07'00'

EXPIRES: 12/31/2024

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

BID FORM

City of Roseburg
900 SE Douglas Avenue
Roseburg, Oregon 974700

The undersigned bidder has carefully examined the Contract Documents for the construction of the

CALKINS-TROOST-HARVARD
STORM IMPROVEMENTS
Project No. 22GR20

referred to in the Invitation to Bid dated February 23, 2023, inviting bids on such Project and also the site of the Project. Bidder will provide all necessary labor, equipment, tools, apparatus and other means of construction, do all the work and furnish all the materials called for by said Contract Documents in the manner prescribed therein to provide a complete Project.

The undersigned bidder understands that the quantities of work as shown herein are approximate only, unless noted otherwise, and are subject to increase or decrease. The bidder offers to perform the work, at the unit price stated in the following schedule, whether the quantities are increased or decreased.

Item No.	Spec. Sect.	Item Description	Unit	Quantity	Unit Price (in figures)	Total Price (in figures)
1	210	MOBILIZATION	LS	1	$	$
2	225	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	LS	1	$	$
3	280	EROSION CONTROL	LS	1	$	$
4	305	CONSTRUCTION SURVEY WORK	LS	1	$	$
5	310	REMOVAL STRUCTURES AND OBSTRUCTIONS	LS	1	$	$
6	405	ROCK EXCAVATION	CY	225	$	$
7	415	MAINLINE VIDEO INSPECTION	FOOT	3,705	$	$

8	445	12 INCH STORM SEWER PIPE	FOOT	750	$	$
9	445	15 INCH STORM SEWER PIPE	FOOT	425	$	$
10	445	18 INCH STORM SEWER PIPE	FOOT	805	$	$
11	490	FILLING ABANDONED 18-INCH PIPE	FOOT	20	$	$
12	445	24 INCH STORM SEWER PIPE	FOOT	1,540	$	$
13	445	36 INCH STORM SEWER PIPE	FOOT	250	$	$
14	445	PIPE TEE, 36 INCH	EACH	3	$	$
15	445	PIPE TEE, 18 INCH	EACH	1	$	$
16	470	CONCRETE STORM SEWER MANHOLES, 48”	EACH	7	$	$
17	470	CONCRETE MANHOLES, SHALLOW	EACH	4	$	$
18	470	CONCRETE MANHOLES, LARGE PRECAST 60”	EACH	6	$	$
19	470	CONCRETE MANHOLES, LARGE PRECAST 72”	EACH	2	$	$
20	470	CONCRETE INLETS, TYPE CG-3 W/ FILTER	EACH	5	$	$
21	470	CONCRETE INLETS, TYPE D	EACH	3	$	$
22	470	CONCRETE INLETS, TYPE G-2 W/ FILTER	EACH	11	$	$
23	490	INSTALL CATCH BASIN FILTER IN EXISTING STRUCTURE	EACH	7	$	$

24	490	CONNECTION TO EXISTING STRUCTURES	EACH	3	$	$
25	490	CONNECTION TO EXISTING PIPE	EACH	10	$	$
26	490	FILLING ABANDON STRUCTURE	EACH	2	$	$
27	490	FILLING ABANDONED 48-INCH PIPE	FOOT	55	$	$
28	490	FILLING ABANDONED 24-INCH PIPE	FOOT	800	$	$
29	490	FILLING ABANDONED 15-INCH PIPE	FOOT	200	$	$
30	490	FILLING ABANDONED 12-INCH PIPE	FOOT	600	$	$
31	490	FILLING ABANDONED 8-INCH PIPE	FOOT	275	$	$
32	744	2-INCH THICK, TEMPORARY TRENCH PATCH PAVING (HMAC)	TON	80	$	$
33	744	HMAC T-CUT TRENCH PATCH RESTORATION, LEVEL 3, 1/2-INCH DENSE GRADED ACP	TON	950	$	$
34	759	CONCRETE CURBS, CURB AND GUTTER	FOOT	300	$	$
35	759	CONCRETE WALKS	SQFT	1,850	$	$
36	759	EXTRA FOR CURB RAMPS	EACH	3	$	$
37	759	TRUNCATED DOMES ON NEW SURFACES	SQFT	44	$	$
38	860	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	2400	$	$
39	867	PAVEMENT BAR, TYPE B	SQFT	80	$	$

40	867	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	EACH	4	$	$
41	445	PIPE TEE, 24 INCH	EACH	1	$	$
				TOTAL =	*$*	

*Abbreviations

LS – Lump Sum	CY – Cubic Yard	EA – Each
LBS – Pounds	LF – Lineal Feet	IN – Inches
SY – Square Yard	TONS – Tons	

The undersigned also declares and agrees as follows:

1. That the only persons or parties interested in this bid are those named herein, that the bid is in all respects fair and without fraud, and that it is made without any connection or collusion with any person making another bid on this Contract.

2. That the bidder, and any subcontractor upon which the bidder is relying, have carefully examined and had an opportunity to comment on, the Contract Documents for the construction of the proposed improvements including a full set of the plans and specifications, including all addenda thereto; that bidder has personally inspected the contemplated construction area or areas; that bidder is satisfied as to the adequacy and completeness of the plans and specifications, the feasibility of the work described therein, quantities of materials, items of equipment and conditions of work involved, including the fact that the description of work and materials as included herein are approximate only; and that this bid is made according to the provisions and under the terms of the Specifications which are hereto attached and hereby made a part of this bid.

3. All of the Specifications and Plans which are listed herein have been examined by the undersigned bidder and the terms and conditions thereof are hereby accepted.

4. It is understood that the Plans may be supplemented by additional Drawings and Specifications in explanation and elaboration of the Plans and it is agreed that such Supplemental Drawings, when not in conflict with those referred to in Paragraph 3 above, will have the same force and effect as if completed and attached hereto, and that when received, will be considered a part of the Contract Documents.

5. It is understood that all work will be performed under the price schedule outlined herein and that all services, materials, labor and equipment and all work necessary to complete the Project in accordance with the Plans and Specifications shall be furnished for the prices named in the bid. If there is a change in the scope of work or work which cannot

be properly classified under the price schedule then bidder agrees to do this work as "extra work". The undersigned bidder agrees to do any extra work and furnish materials, and to accept as full compensation therefore at such prices as may be agreed upon in writing by the City and the Contractor before extra work begins. Each party binds itself to agree to reasonable prices.

6. It is understood the work to be performed must meet the highest standards prevalent in the industry or business most closely related to the work to be performed. It is further understood that failure to meet such standards may result in consequences including, but not limited to, a reduction or withholding of payment; a requirement that bidder perform, at bidder's own expense, additional work required to meet such standards; or termination of the contract, with damages being sought.

7. The bidder agrees that if this bid is accepted, the bidder will, within ten (10) calendar days after the notification of acceptance, execute the Construction Contract with the City in the form of Contract specified, and will, at the time of execution of the Contract, deliver to the City the Performance Bond, Payment Bond and Public Works Bond Filing Certification form as required herein, and will furnish all the materials necessary to complete the Project in the manner, in the time and according to methods as specified in the Specifications and required by the City.

8. The cash, certified check, cashier's check, irrevocable letter of credit or Bid Bond shall be payable to the City to the extent of 10% of the amount of the bid in case this bid is accepted by the City and the undersigned shall fail or refuse to execute the Contract and furnish a Payment Bond, a Performance Bond or the Public Works Bond Filing Certification form as required by the Specifications within the time limit named therein after notification that said bid is accepted, all in accordance with the provisions of this bid and the Plans and Specifications which are a part hereof.

9. All items for the Contract for which forms are provided herein have been completed in full by the showing of prices for each and every item thereof, and for the showing of other information indicated by the Bid Form.

10. There are two Contract Times on this Project as follows:
(a) The Contractor shall complete all Work to be done under the Contract in Harvard, Kenwood, Haggerty, and Rainbow before the elapse of 85 Calendar Days, or not later than November 17, 2023 whichever occurs first.

(b) The Contractor shall complete all Work to be done under the Contract in Troost and Calkins before the elapse of 75 Calendar Days, or not later than November 17, 2023 whichever occurs first.

11. In the event the bidder is awarded the Contract and fails to complete the Project within the time limit or extended time agreed upon, as more specifically set forth in the General Conditions, liquidated damages shall be paid to or withheld by the City pursuant to Paragraph 4 of the Construction Contract (Time of Performance - Liquidated Damages)

at the rate of **Five Hundred Dollars ($500.00)** per day, until the Project has been completed as provided in the General Conditions.

12. The undersigned bidder hereby states, as part of this bid, that the applicable provisions of Oregon's Prevailing Wage Law (ORS 279C.800 to 279C.870) and the Federal Prevailing Wage Law (Davis-Bacon Act, 40 U.S.C. 3141-3148), shall be complied with. When the Project is subject to both the State and Federal Prevailing Wage Laws and rates, workers in each trade will be paid the higher of the two rates.

13. The undersigned bidder and bidder's subcontractors shall comply with ORS 656.017, which requires them to provide Workers' Compensation coverage for all their subject workers.

14. The undersigned bidder hereby states, as part of this bid, that bidder shall comply with ORS 279C.505(2) which requires bidder to have an employee drug testing program in place.

15. The undersigned bidder and bidders' subcontractors shall comply with ORS 279C.570 and 279C.580, which require timely progress payments for public improvement projects and provide interest penalties for late payment.

16. The undersigned bidder hereby states, as part of this bid, bidder and bidder's subcontractors shall comply with the provisions of Exhibit "A" - "Standard City Contract Provisions".

17. **If applicable** pursuant to Section 11 of "Information for Bidders", the undersigned bidder hereby states, as part of this bid, that bidder has completed pay equity compliance training and received a certificate of completion from the Oregon Department of Administrative Services.

18. If the bidder is awarded the Contract for this work, the name and address of the Surety who will provide the Payment Bond, Performance Bond and Public Works Bond (if required) will be:_____.

19. The name and address of the bidder who is submitting this bid is: _____, which is the address to which all communications pertinent to this bid and the Contract shall be sent. The bidder's email address is:_____.

20. The names of the principal officers of the corporation submitting this bid or of the partnership, or of all parties interested in this bid as principals are as follows: _____.

21. The undersigned bidder acknowledges that Addenda No. _____ through _____ have been delivered to bidder and have been examined as part of the Contract Documents.

22. In the prosecution of this work, the bidder proposes to use the subcontractors listed on the First-Tier Subcontractor Disclosure Form presented within two working hours of the bid submission deadline as set forth in the Invitation to Bid. Any bidder not using subcontractors subject to the above referenced Disclosure Form shall indicate "NONE" on the Disclosure Form and sign and submit the form as required.

23. Declaration of Residency: I "am" or "am not" (circle one) a "resident bidder"* as defined by ORS 279A.120, a contractor that has paid unemployment taxes or income taxes in Oregon during the 12 calendar months immediately preceding submission of the bid, has a business address in this state and has stated in the bid whether the bidder is a "resident bidder" pursuant to ORS 279A.120.

24. The bidder's Construction Contractors Board License Number or Landscape Contractors Board License Number is: _____.

25. Bidder's Tax Identification Number: _____. Email:_____.

26. Public Works Bond: If the bid is accepted, prior to beginning work on the project, the bidder will file with the Construction Contractors Board, a Public Works Bond in the amount of $30,000 with a corporate surety authorized to do business in the State of Oregon; and before permitting a subcontractor to begin work on the project, the bidder will verify that the subcontractor has also filed the aforementioned bond. If the bidder, as a certified disadvantaged, minority, women or emerging small business enterprise, elects not to file the Public Works Bond, bidder will file written verification of such certification with the Construction Contractors Board and provide the Board and the City of Roseburg with notice of such election.

<u>If sole Proprietor or Partnership</u>:
In witness hereto, the undersigned as set his/her hand this _____ day of _____, 2023.

Printed name of bidder:_____
Signature of bidder:
_____
Title:_____

<u>If Corporation</u>:
In witness whereof, the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this ____ day of _____, 2023.

Name of Corporation:_____

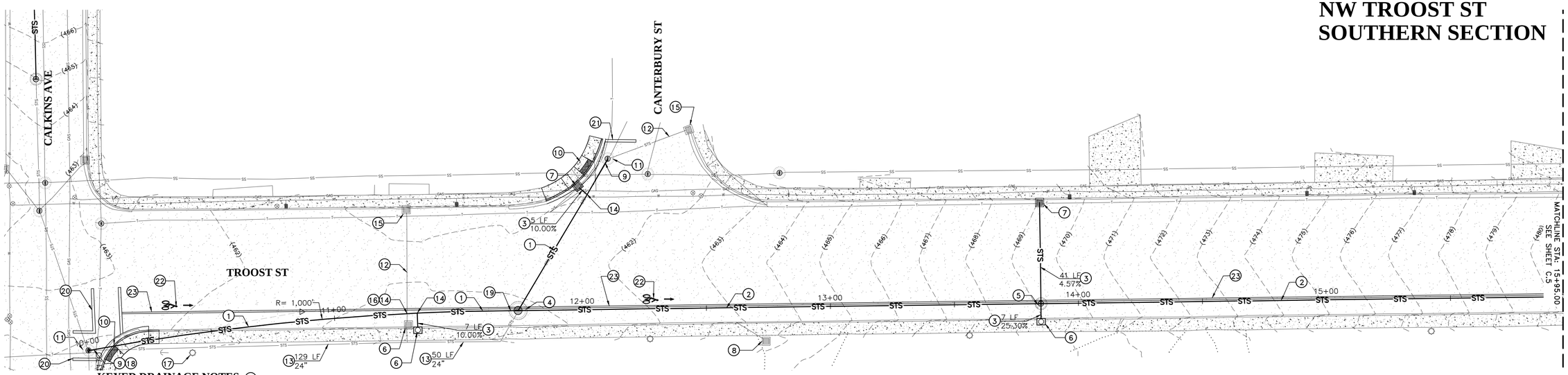
Printed name of person signing:_____

Signature:_____

Title:_____

Attest: _____
Secretary

NW TROOST ST
SOUTHERN SECTION

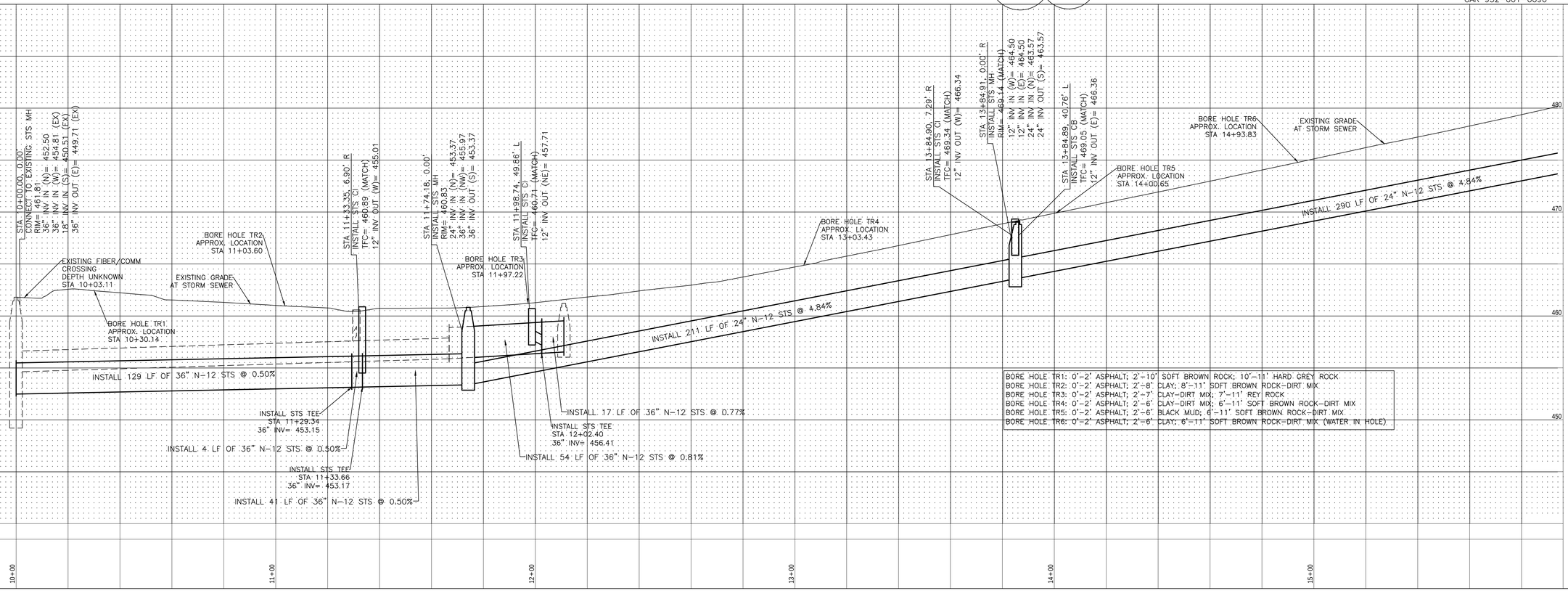


KEYED DRAINAGE NOTES: (#)

1. INSTALL 36" STS PIPE, LENGTH AND SLOPE PER PROFILE (SEE STD DWG RD300)
2. INSTALL 24" STS PIPE, LENGTH AND SLOPE PER PROFILE (SEE STD DWDG RD300)
3. INSTALL 12" STS PIPE, LENGTH AND SLOPE PER PROFILE/PLAN (SEE STD DWG RD300)
4. INSTALL 72" STS MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW (SEE STD DWGS RD346, RD356)
5. INSTALL 48" STS MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW (SEE STD DWGS RD335, RD336, RD344)
6. INSTALL STS CURB INLET CG-3 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, TFC AND INVERT ELEVATIONS PER PROFILE (SEE STD DWGS RD371, RD372)
7. INSTALL STS CATCH BASIN G-2 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, GRATE AND INVERT ELEVATIONS PER PROFILE (SEE STD DWG RD364)
8. PROTECT EXISTING STORM INLET AND WEEPHOLE IN PLACE
9. CONNECT NEW STS PIPE TO EXISTING STS MANHOLE, SEE INVERTS IN PROFILE VIEW (STD DWG RD345)
10. RECONSTRUCT ADA RAMP PER DETAIL (SEE DETAIL ON SHEET SD.1 AND SEE STD DWGS RD902, RD920)
11. EXISTING STS MANHOLE TO REMAIN
12. EXISTING STS PIPE TO REMAIN
13. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL, LENGTH AND DIAMETER PER PLAN.
14. INSTALL 36"X12" STS TEE WITH FITTINGS AS NEEDED, 36" INVERT PER PROFILE
15. PROTECT EXISTING INLET IN PLACE AND INSTALL FLEXSTORM, FLOGARD+, OR APPROVED EQUAL FILTER. (SEE DETAIL ON SHEET SD.1)
16. CONNECT EXISTING STS PIPE TO NEW STS 36"X12" TEE AND INSTALL BENDS AND FITTINGS AS NEEDED
17. CONTRACTOR TO COORDINATE WITH POWER COMPANY DURING CONSTRUCTION
18. BEGIN HORIZONTAL DEFLECTION OF STS PIPE, RADIUS PER PLAN
19. END HORIZONTAL DEFLECTION OF STS PIPE
20. INSTALL CROSS WALK AS SHOWN, "CW", NEW CROSS WALK SHALL MATCH INTO EXISTING CROSS WALK AS NEEDED (SEE STD DWG TM503)
21. INSTALL STOP BAR AS SHOWN, "S"(SEE STD DWG TM503)
22. INSTALL BIKE LANE STENCIL AS SHOWN, "BS" (SEE STD DWG TM503)
23. INSTALL 8" WHITE LINE, "W-2" FOR BIKE LANE LINE AS SHOWN, NEW LINE SHALL MATCH INTO EXISTING BIKE LANE AS NEEDED. (SEE STD DWG TM500)
24. REMOVE EXTG. CATCH BASIN.

0' 10' 20' 40'
SCALE: 1" = 20'

CALL BEFORE YOU DIG !
ONE CALL: (800)
OAR 952-300-2314 THROUGH
OAR 952-001-0090



civil
structural
surveying
architecture
planning

i.e. Engineering, inc.
809 SE Pine St.
Roseburg, OR

ieengineering.com

REGISTERED PROFESSIONAL ENGINEER
72677PE
OREGON
NOVEMBER 13, 2007
ERIK D. RANGER
Erik Ranger Date: 2023.03.23.
EXPIRES: 12/31/2024

Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

CALKINS-TROOST-RAINBOW-HAGGERTY STORM

CALKINS AVE & TROOST ST
ROSEBURG, OR

TROOST ST ALIGNMENT - SOUTH
HORIZ. 1" = 20' VERT. 1" = 5'
FEBRUARY 22, 2023
ISSUE: FOR BID

PROJECT NO. 0149-220
DRW. CPR
CHK. ERR

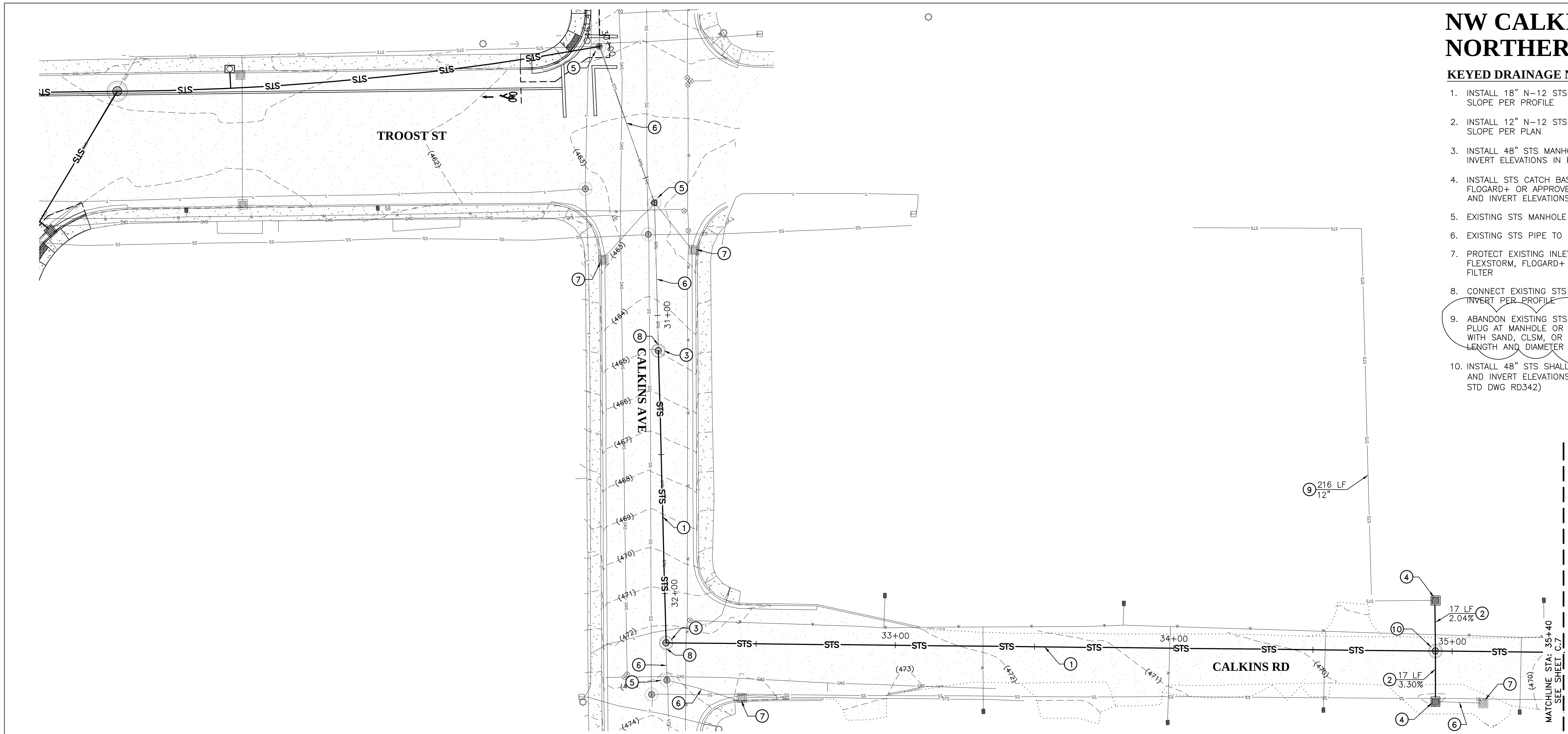
C.4

Fri, November 23, 2023 K:\Dwg\0149-Chr. of Roseburg\149-220 Calkins-Troost-Harvard Storm\DESIGN\C4SD\0149-220 C TROOST.dwg

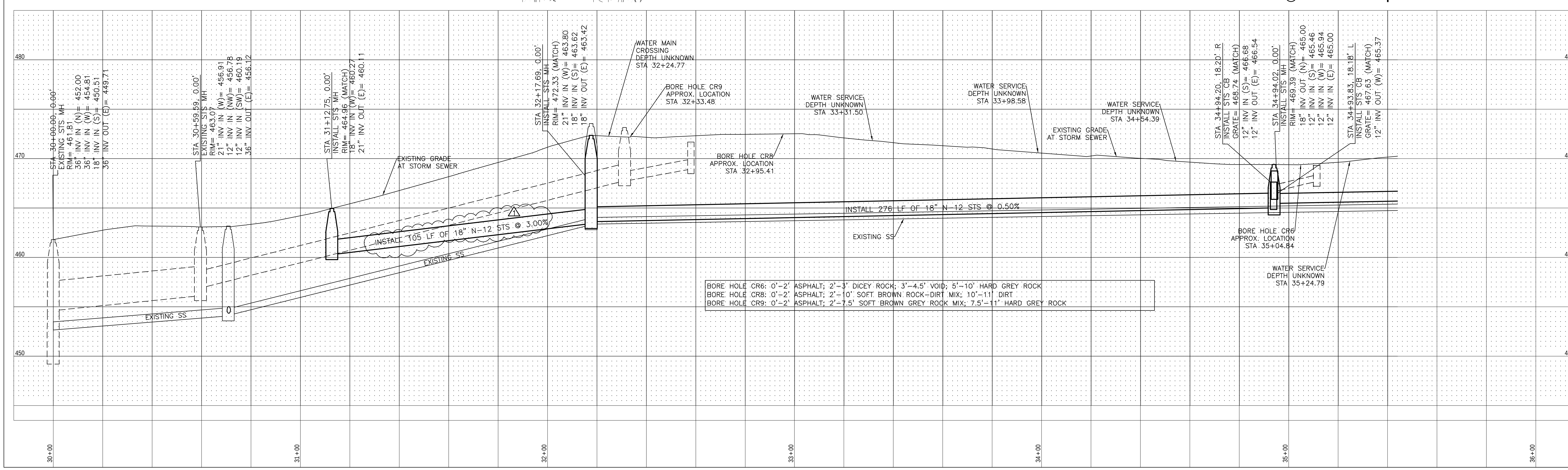
NW CALKINS AVE NORTHERN SECTION

KEYED DRAINAGE NOTES: (#)

1. INSTALL 18" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
2. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PLAN
3. INSTALL 48" STS MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW
4. INSTALL STS CATCH BASIN G-2 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, GRATE AND INVERT ELEVATIONS PER PROFILE
5. EXISTING STS MANHOLE TO REMAIN
6. EXISTING STS PIPE TO REMAIN
7. PROTECT EXISTING INLET IN PLACE AND INSTALL FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER
8. CONNECT EXISTING STS PIPE TO NEW MANHOLE, INVERT PER PROFILE
9. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL. LENGTH AND DIAMETER PER PLAN.
10. INSTALL 48" STS SHALLOW MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW (SEE STD DWG RD342)



CALL BEFORE YOU DIG ! ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH OAR 952-001-0090



i.e. civil structural surveying architecture planning
i.e. Engineering, inc.
809 SE Pine St
Roseburg, OR
ieengineering.com

REGISTERED PROFESSIONAL ENGINEER 72679 OREGON ERIK D. RANGER
Digitally signed by Erik Ranger Date: 2023.03.23
EXPIRES: 12/31/2024

Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

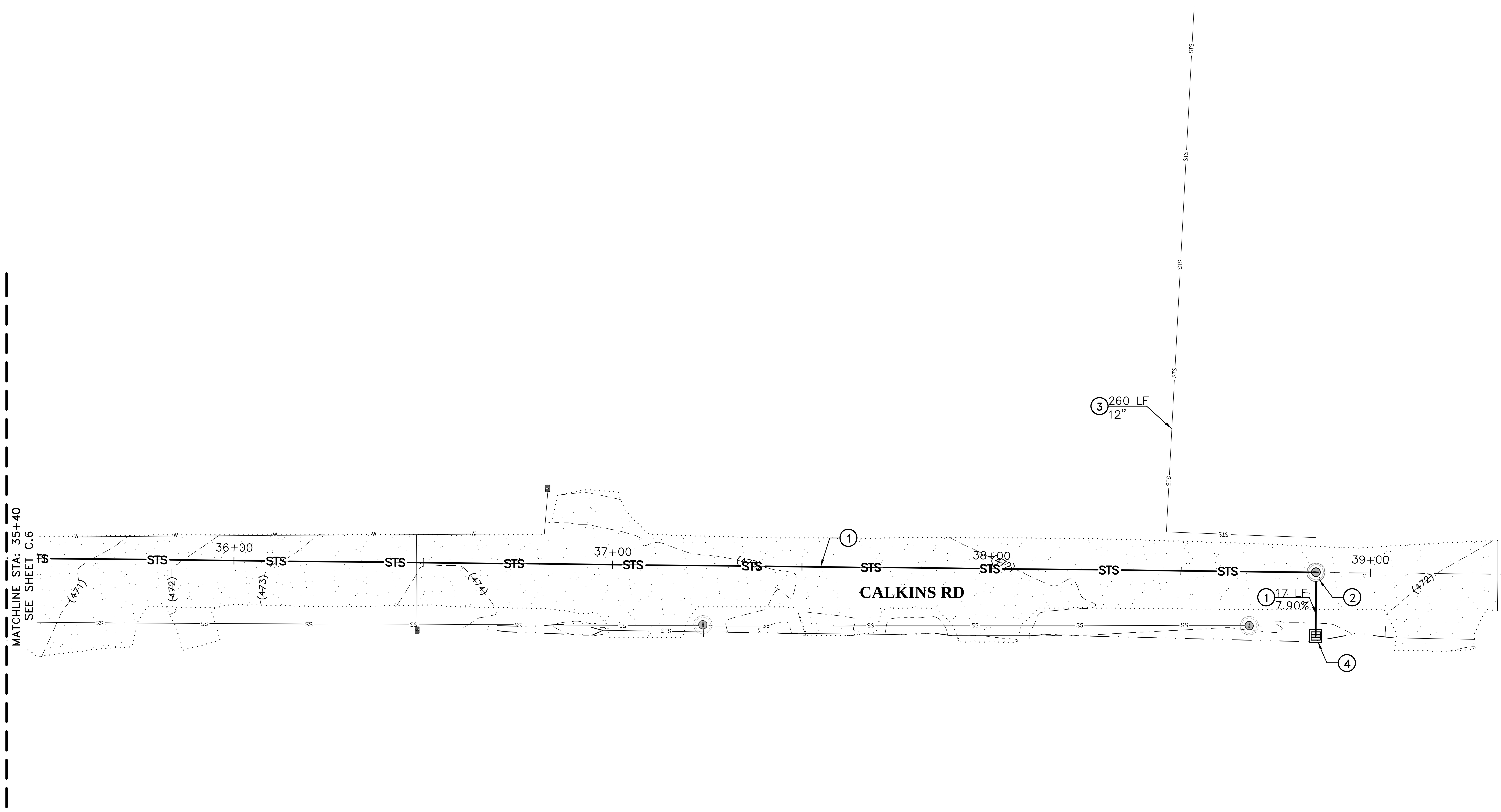
CALKINS-TROOST-RAINBOW-HAGGERTY STORM
CALKINS AVE & TROOST ST
ROSEBURG, OR
CALKINS AVE ALIGNMENT - NORTH
HORIZ. 1" = 20' VERT. 1" = 5'
FEBRUARY 22, 2023
ISSUE: FOR BID
PROJECT NO. 0149-220
DRN: CPR
CHK: EDR

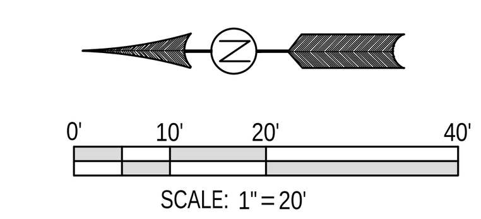
C.6

NW CALKINS AVE
SOUTHERN SECTION

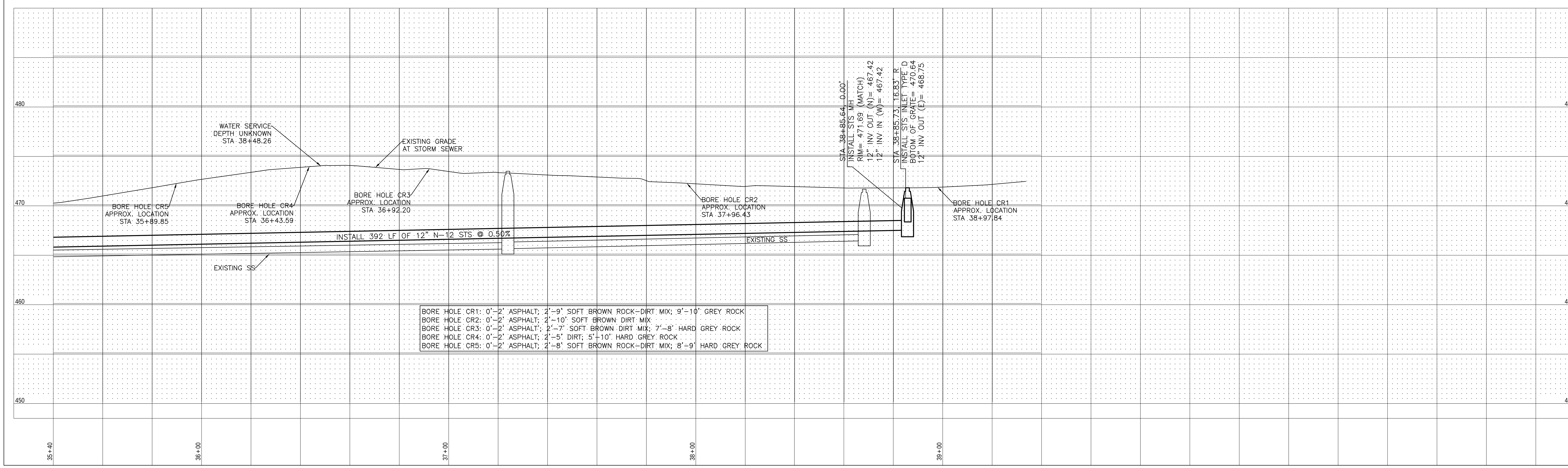
KEYED DRAINAGE NOTES: (#)

1. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PLAN/PROFILE
2. INSTALL 48" STS SHALLOW MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW
3. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL, LENGTH AND DIAMETER PER PLAN.
4. INSTALL STS CATCH BASIN TYPE D, GRATE AND INVERT ELEVATIONS PER PROFILE (RD370)





CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH
OAR 952-001-0090



BORE HOLE CR1: 0'-2' ASPHALT; 2'-9' SOFT BROWN ROCK-DIRT MIX; 9'-10' GREY ROCK
BORE HOLE CR2: 0'-2' ASPHALT; 2'-10' SOFT BROWN DIRT MIX
BORE HOLE CR3: 0'-2' ASPHALT; 2'-7' SOFT BROWN DIRT MIX; 7'-8' HARD GREY ROCK
BORE HOLE CR4: 0'-2' ASPHALT; 2'-5' DIRT; 5'-10' HARD GREY ROCK
BORE HOLE CR5: 0'-2' ASPHALT; 2'-8' SOFT BROWN ROCK-DIRT MIX; 8'-9' HARD GREY ROCK

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architecture
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REGISTERED PROFESSIONAL ENGINEER
72679PE
Erik Ranger
Digitally signed by Erik Ranger Date: 2023.03.23 10:31:35-07'00'
OREGON
NOVEMBER 13, 2003
ERIK D. RANGER
EXPIRES: 12/31/2024

Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

CALKINS-TROOST-RAINBOW-HAGGERTY STORM

CALKINS AVE & TROOST ST
ROSEBURG, OR
CALKINS AVE ALIGNMENT - SOUTH
HORIZ. 1" = 20' VERT. 1" = 5'
FEBRUARY 22, 2023
ISSUE: FOR BID

PROJECT NO. 0149-220
DRW: CPR
CHK: EDR

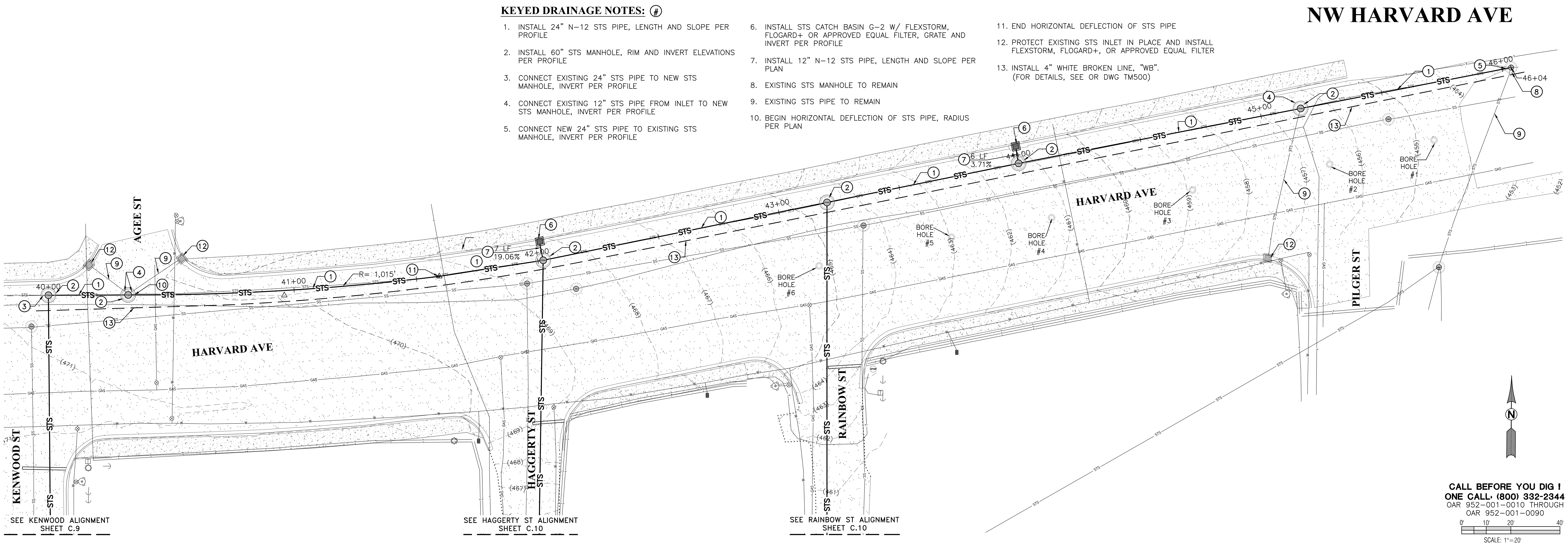
C.7

V:\JOBS\0149-City of Roseburg\149-220 Calkins-Troost-Harvard Storm\DESIGN\CADD\0149-220 C TROOST.dwg
Erik RangerMar 23, 2023

NW HARVARD AVE

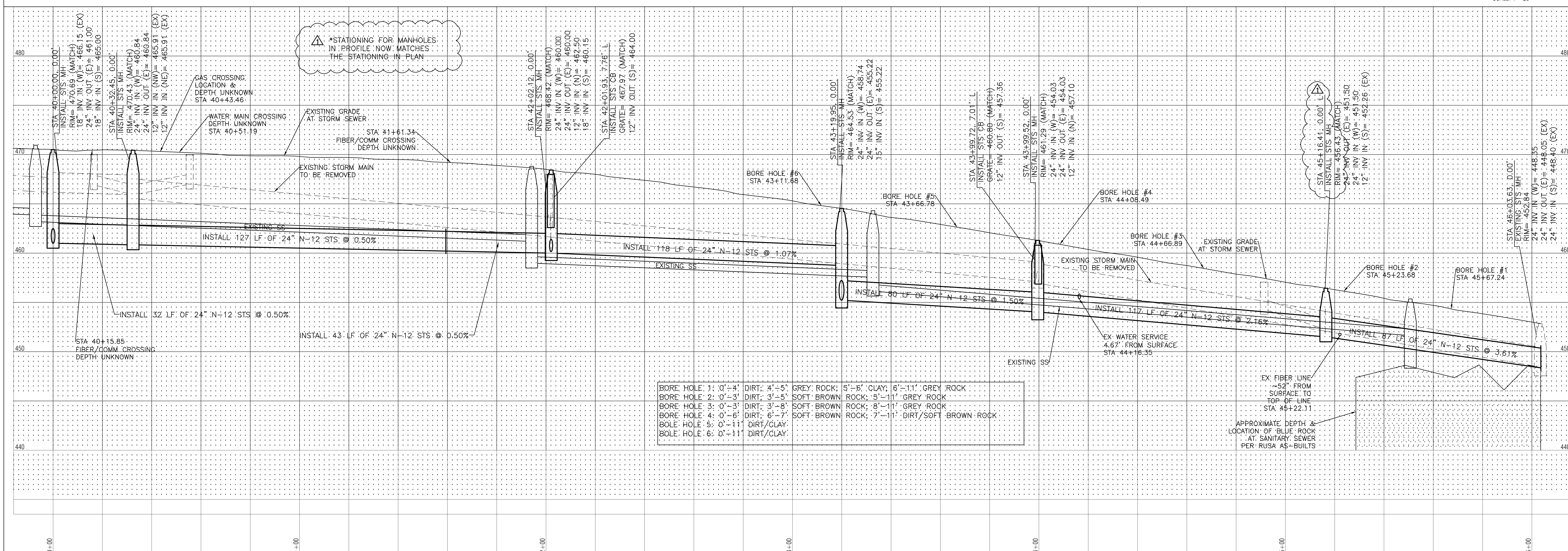
KEYED DRAINAGE NOTES: (#)

1. INSTALL 24" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
2. INSTALL 60" STS MANHOLE, RIM AND INVERT ELEVATIONS PER PROFILE
3. CONNECT EXISTING 24" STS PIPE TO NEW STS MANHOLE, INVERT PER PROFILE
4. CONNECT EXISTING 12" STS PIPE FROM INLET TO NEW STS MANHOLE, INVERT PER PROFILE
5. CONNECT NEW 24" STS PIPE TO EXISTING STS MANHOLE, INVERT PER PROFILE
6. INSTALL STS CATCH BASIN G-2 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, GRATE AND INVERT PER PROFILE
7. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PLAN
8. EXISTING STS MANHOLE TO REMAIN
9. EXISTING STS PIPE TO REMAIN
10. BEGIN HORIZONTAL DEFLECTION OF STS PIPE, RADIUS PER PLAN
11. END HORIZONTAL DEFLECTION OF STS PIPE
12. PROTECT EXISTING STS INLET IN PLACE AND INSTALL FLEXSTORM, FLOGARD+, OR APPROVED EQUAL FILTER
13. INSTALL 4" WHITE BROKEN LINE, "WB". (FOR DETAILS, SEE OR DWG TM500)



CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH OAR 952-001-0090

SCALE: 1"=20'



BORE HOLE 1: 0'-4' DIRT; 4'-5' GREY ROCK; 5'-6' CLAY; 6'-11' GREY ROCK
BORE HOLE 2: 0'-3' DIRT; 3'-5' SOFT BROWN ROCK; 5'-11' GREY ROCK
BORE HOLE 3: 0'-3' DIRT; 3'-8' SOFT BROWN ROCK; 8'-11' GREY ROCK
BORE HOLE 4: 0'-6' DIRT; 6'-7' SOFT BROWN ROCK; 7'-11' DIRT/SOFT BROWN ROCK
BOLE HOLE 5: 0'-11' DIRT/CLAY
BOLE HOLE 6: 0'-11' DIRT/CLAY

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REGISTERED PROFESSIONAL ENGINEER — OREGON — ERIK D. RANGER
EXPIRES: 12/31/2024

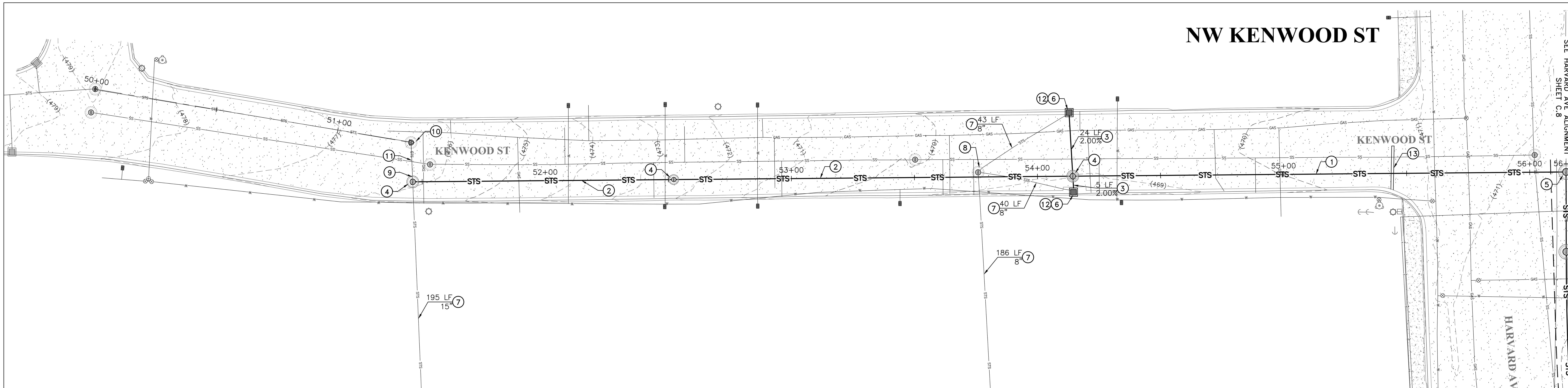
Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

CALKINS-TROOST-RAINBOW-HAGGERTY STORM

HARVARD AVE
ROSEBURG, OR
HARVARD AVE ALIGNMENT
HORIZ. 1"=20' VERT. 1"=5'
FEBRUARY 20, 2023
ISSUE: FOR BID
PROJECT NO. 0149-220
DRW: CPR
CHK: EDR

C.8

NW KENWOOD ST

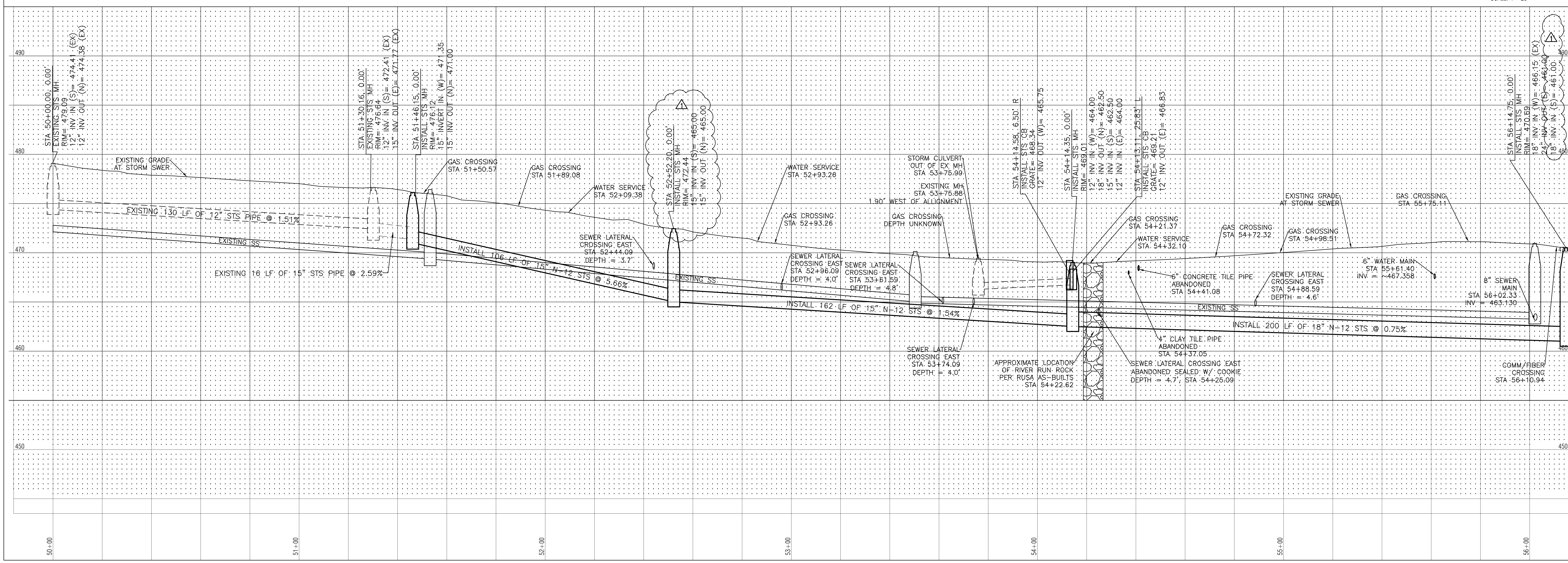


KEYED DRAINAGE NOTES: (#)

1. INSTALL 18" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
2. INSTALL 15" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
3. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
4. INSTALL 48" STS MANHOLE, RIM AND INVERT ELEVATIONS PER PROFILE
5. INSTALL 60" STS MANHOLE, SEE HARVARD SHEET (C.8) FOR MORE INFORMATION
6. INSTALL STS CATCH BASIN G-2 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, GRATE AND INVERT ELEVATIONS PER PROFILE
7. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL, LENGTH AND DIAMETER PER PLAN.
8. REMOVE EXISTING MANHOLE
9. CONNECT EXISTING 12" STS PIPE TO NEW 48" STS MANHOLE
10. EXISTING STS MANHOLE TO REMAIN
11. EXISTING STS PIPE TO REMAIN
12. INSTALL "DRAINS TO RIVER" STENCIL AT ALL CATCH BASINS/CURB INLETS LOCATED WITHIN PAVEMENT AREAS PER DETAIL
13. INSTALL STOP BAR AS SHOWN

CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH OAR 952-001-0090

SCALE: 1"=20'



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Roseburg, OR
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REGISTERED PROFESSIONAL ENGINEER 72676PE OREGON NOVEMBER 13, 2017 ERIK D. RANGER
Digitally signed by Erik Ranger Date: 2023.03.23
EXPIRES: 12/31/2024

Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

CALKINS-TROOST-RAINBOW-HAGGERTY-STORM

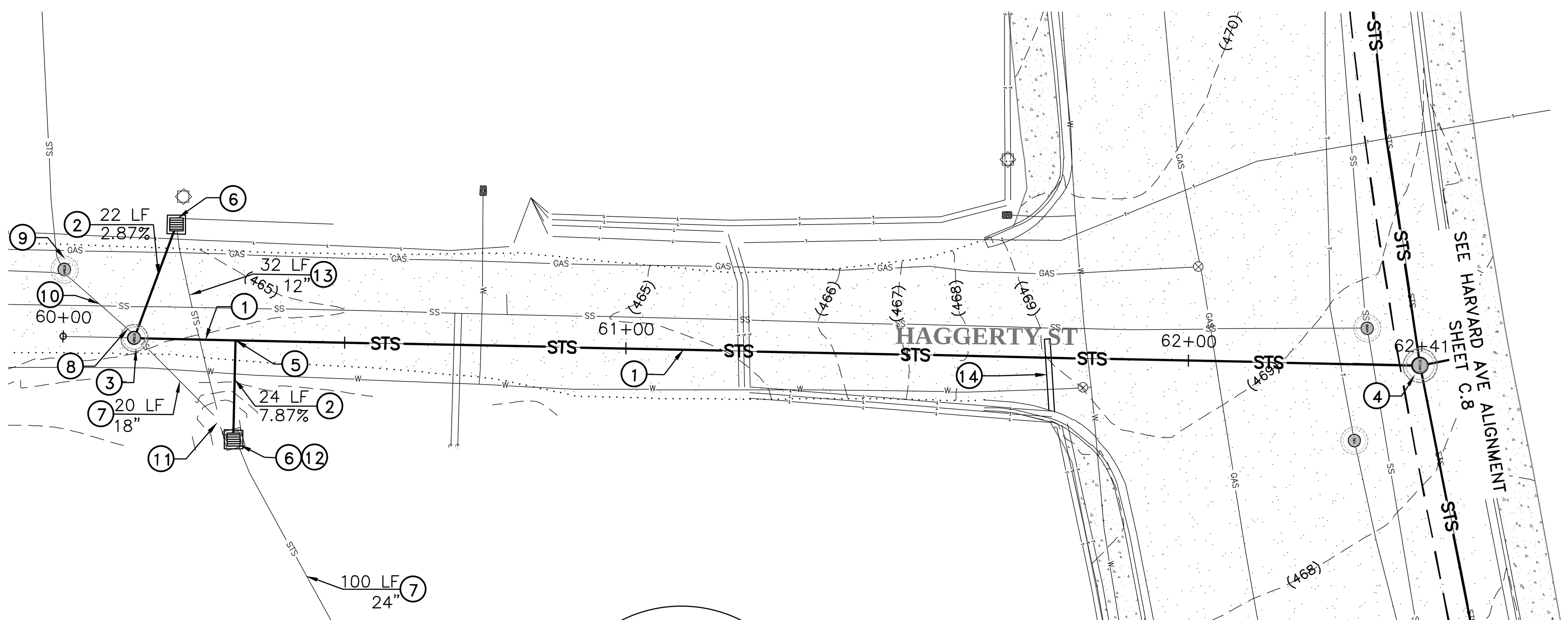
HARVARD AVE
ROSEBURG, OR
KENWOOD ST ALIGNMENT
HORIZ: 1"=20' VERT: 1"=5'
FEBRUARY 20, 2023
ISSUE: FOR BID

PROJECT NO. 0149-220
DRN: CPR
CHK: EDR

C.9

Cole Riley Mar 21, 2023 Z:\JOBS\0149-City of Roseburg\149-220 Calkins-Troost-Harvard Storm\DESIGN\CAD\0149-220_C_HARVARD.dwg

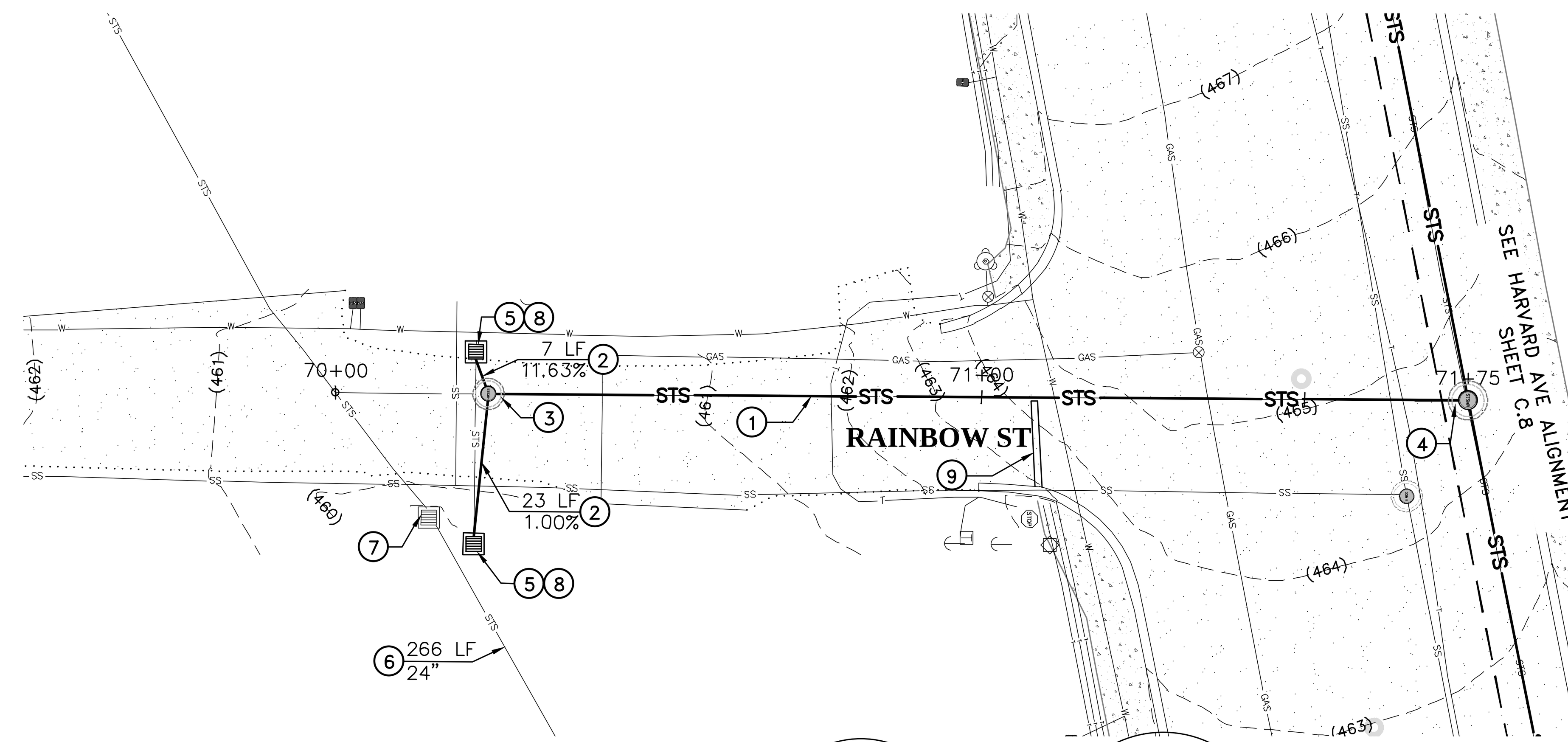
NW HAGGERTY ST



KEYED DRAINAGE NOTES:

1. INSTALL 18" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
2. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PLAN
3. INSTALL 48" STS SHALLOW MANHOLE OVER EXISTING STS PIPE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW
4. INSTALL 60" STS MANHOLE, SEE HARVARD (SHEET C.8) FOR MORE INFORMATION
5. INSTALL 12"X18" TEE, INVERT PER PROFILE
6. INSTALL STS CATCH BASIN TYPE D, GRATE AND INVERT ELEVATIONS PER PROFILE
7. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL, LENGTH AND DIAMETER PER PLAN.
8. CONNECT EXISTING 18" STS PIPE TO NEW 48" STS MANHOLE, INVERT PER PROFILE
9. EXISTING STS MANHOLE TO REMAIN
10. EXISTING STS PIPE TO REMAIN
11. GRADE DITCH AND SLOPE TO MATCH INLET EVEVATIONS
12. REMOVE EXISTING STS STRUCTURE
13. REMOVED EXSTING STS PIPE, LENGTH AND DIAMETER PER PLAN
14. INSTALL STOP BAR AS SHOWN

NW RAINBOW ST



KEYED DRAINAGE NOTES:

1. INSTALL 15" N-12 STS PIPE, LENGTH AND SLOPE PER PROFILE
2. INSTALL 12" N-12 STS PIPE, LENGTH AND SLOPE PER PLAN
3. INSTALL 48" STS SHALLOW MANHOLE, SEE RIM AND INVERT ELEVATIONS IN PROFILE VIEW
4. INSTALL 60" STS MANHOLE, SEE HARVARD AVE (SHEET C.8) FOR MORE INFORMATION
5. INSTALL STS CATCH BASIN G-2 W/ FLEXSTORM, FLOGARD+ OR APPROVED EQUAL FILTER, SEE GRATE AND INVERT ELEVATIONS IN PROFILE
6. ABANDON EXISTING STS PIPE IN PLACE, CAP OR PLUG AT MANHOLE OR CATCH BASIN. FILL PIPES WITH SAND, CLSM, OR APPROVED MATERIAL, LENGTH AND DIAMETER PER PLAN.
7. REMOVE EXISTING STS INLET
8. INSTALL "DRAINS TO RIVER" STENCIL AT ALL CATCH BASINS/CURB INLETS LOCATED WITHIN PAVEMENT AREAS PER DETAIL
9. INSTALL STOP BAR AS SHOWN

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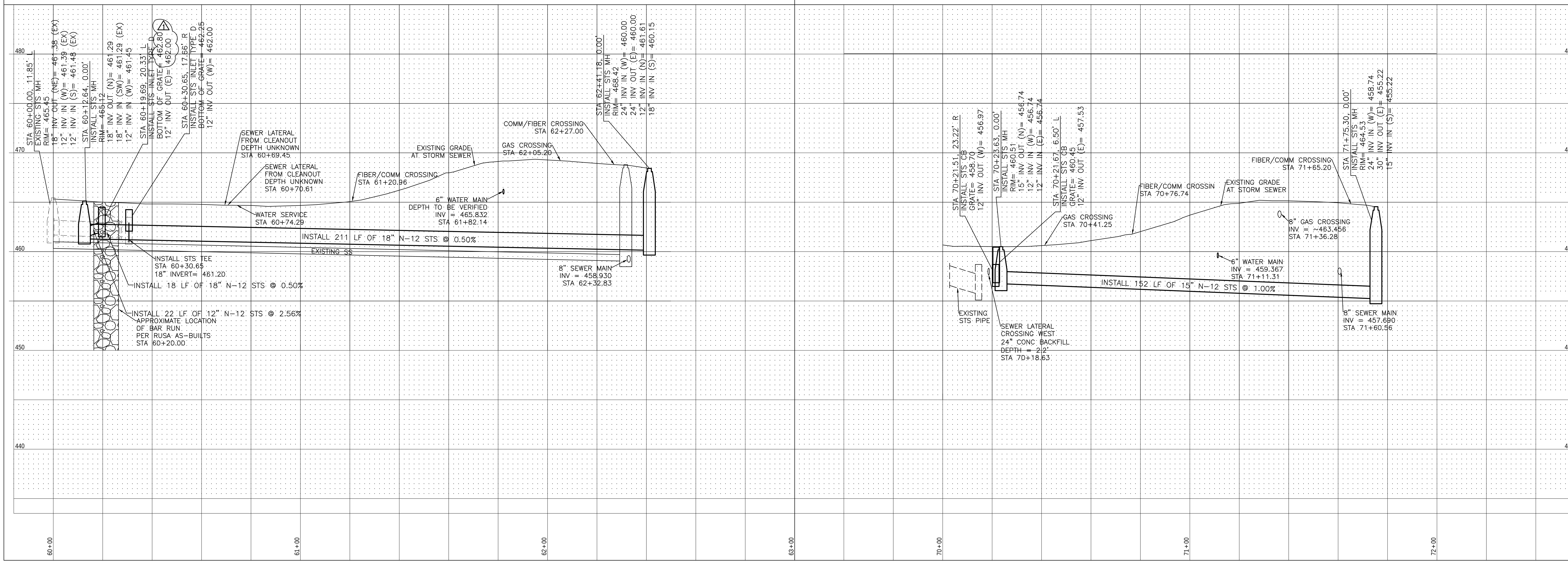

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REGISTERED PROFESSIONAL ENGINEER 72633 OREGON NOVEMBER 13, 2020 ERIK D. RANGER
EXPIRES: 12/31/2024

Rev.	Date	Dwg	Description
1	3/21/2023	CPR	ADDENDUM #1

CALKINS-TROOST-RAINBOW-HAGGERTY STORM

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CHK: EDR

C.10

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