



AGENDA

QLife Regular Board Meeting

Thursday, October 28, 2021 | 12:00 PM

Google Hangouts - <https://meet.google.com/ybv-sgae-eki>

- 12:00 Call to Order
- 12:00 Approval of Agenda
- 12:00 **Consent Agenda** *(items of a routine nature: minutes, documents, items previously discussed)*
 - **September 23, 2021 Minutes**
- 12:05 **Finance**
 - **Financial Report, Reconciliation and Analysis** – Mike Middleton
- 12:15 **Discussion Items**
 - **Admin Staff Updates** – Matthew Klebes
 - o **Dry Hollow RFP**
 - **Broadband Action Team** – Matthew Klebes & Carrie Pipinich
 - **Aristo Technical Management Report** – John Amery
- 12:40 **Executive Session ORS 192.660(2)(f) To consider information or records that are exempt by law from public inspection.**

Old/New Business

Next Board Meeting Date: October 28, 2021 | 12:00 PM

Adjourn

**Agenda subject to change*

**Executive Session held as needed*

An executive session may, in the discretion of the presiding officer, be called based on one or more of the following: ORS 192.660 (2)(a) Consider employment issues; (2)(e) Real property; (2)(f) Consider exempt records or information; (2)(g) Competitive trade or commerce negotiations; (2)(h) Consult with counsel re litigation; (2)(m)(D) & (E) Discuss information regarding security of telecom systems and data transmission.



Consent Agenda

- [September 23, 2021 Minutes](#)



MINUTES

QLife Regular Board Meeting
Thursday, September 23, 2021
Via Google Hangouts

Call to Order President Hege calls the meeting to order at 12:06 PM.

Roll Call Scott Hege, Scott Randall, Dale Lepper, John Amery, Keith Mobley, Kristen Campbell, Joseph Franell, Tom McGowan, Dan McNeely, Stephanie Krell, Matthew Klebes, Mike Middleton.

Changes to the Agenda

There are no changes.

[[Mr. Lepper moves to approve the agenda. Mr. Randall seconds the motion, which passes unanimously.]]

Approval of the Consent Agenda

[[Mr. Lepper moves to approve the consent agenda. Mr. Randall seconds the motion, which passes unanimously.]]

Finance

Financial Report, Analysis and Reconciliation

Mr. Middleton presents the August financial report to the board included in the packet. He notes that the Operations fund is on track and stands at one percent ahead of where we estimated it would be. He did not include the accounts receivable in the report because his is working out some kinks in the new financial software. He adds that some accounts will be researched by the finance team to clarify some expenses. For example, the legal services account is at 95% execution and administrative fees are at 89% execution. This could be due to invoice timing or miscoding.

The Capital fund has transfers coming in as it should and overall both the Capital and Maupin funds are doing well.

There are no questions from the Board.

Action Items

Commstructure Work Order #31 Amendment #1

Mr. McNeely refers to the amendment in the board packet and informs the Board that the project design is almost complete. Permits are being finalized and the next step will be posting the RFP. The bidding process and RFP support was not included in the original work order, which is why the amendment was drafted.

President Hege asks about the estimated total cost of the project and Mr. Klebes responds that it is around \$236,000.

[[Mr. Lepper moves to approve Work Order #31 Amendment #1 to extend the expiration date of the original Work Order and add RFP, Bid Process & Construction support for the Dry Hollow CAB project. Mr. Randall seconds the motion, which passes unanimously.]]

Discussion Items

Administration Update

Mr. Klebes informs the Board that the NTIA application has been received and is currently in review. He expects to hear back from Business Oregon in November. Business Oregon had some follow up questions for additional details on the project. Mr. Klebes interprets that as a positive sign.

Mr. Franell adds that he met with the NTIA staff about all of the submitted projects and came away feeling good about the conversation.

Mr. Klebes, Mr. Amery and Ms. Pipinich are meeting weekly with RISI and are expecting to bring back action items to the Board soon.

Mr. Klebes notes that we are moving forward on the Liberty Street Extension project and have heard back from Charter, which had been holding up progress. Mr. McNeely expands by informing the Board that Charter is doing make-readys and that is what is causing the delay.

Mr. Amery discusses the Downtown Overbuild project, which should be starting next week. We are in the process of getting right of way permits from the city and if things go smoothly, the entire project should be complete by the October board meeting. Mr. Franell adds that he hopes they can begin work on Liberty Street as soon as the Downtown Overbuild project is complete.

President Hege wonders what the next steps are once Liberty Street is completed. Mr. Klebes responds that the work with RISI will facilitate next steps.

President Hege asks for an update on The Grove and Mr. Klebes explains that it is in a similar place as Liberty Street. Both are projects of opportunity for the general QLife footprint.

Northern Wasco PUD Bond

Mr. Klebes refers to the PUD bond invoice in the packet and explains that this is part of the pole attachment agreement and is included to keep the Board informed.

Aristo Technical Management Report

Mr. Amery presents his technical report to the Board and states that there are no current damages. His current focus is on the fiber to the home solution as well as product management.

President Hege wonder how the Walnut Street repair was resolved. Mr. Klebes says he spoke with the city manager about the cost of repair versus an insurance claim and it made the most cost effective sense to simply repair the damage. Mr. Amery adds that there are currently no live customers on that line so it was only repaired and not upgraded.

Executive Session started at 12:43 PM

Executive Session ended at 1:12 PM

The meeting is adjourned at 1:12 PM

The next regularly scheduled board meeting is set for October 28, 2021.

These minutes were approved by the QLife Board on _____.

Lee Weinstein, Secretary



Financial Reports

- [September Financial Statement](#)
- [September Finance Reconciliations](#)
- [September Financial Analysis](#)

YEAR-TO-DATE BUDGET REPORT

FOR 2022 03							
ACCOUNTS FOR: 6000 Qlife Operations	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
400 BEGINNING FUND BALANCE	-659,977	0	-659,977	.00	.00	-659,977.00	.0%
414 CHARGES FOR SERVICE	-741,420	0	-741,420	-170,945.00	.00	-570,475.00	23.1%
417 INVESTMENT EARNINGS	-1,200	0	-1,200	-292.48	.00	-907.52	24.4%
421 MISCELLANEOUS	-200	0	-200	.00	.00	-200.00	.0%
520 MATERIALS & SERVICES	341,206	0	341,206	111,291.17	.00	229,914.83	32.6%
530 CAPITAL OUTLAY	20,000	0	20,000	.00	.00	20,000.00	.0%
550 TRANSFERS OUT	595,020	0	595,020	148,755.00	.00	446,265.00	25.0%
570 CONTINGENCY	162,935	0	162,935	.00	.00	162,935.00	.0%
590 UNAPPROPRIATED	283,636	0	283,636	.00	.00	283,636.00	.0%
TOTAL Qlife Operations	0	0	0	88,808.69	.00	-88,808.69	100.0%
TOTAL REVENUES	-1,402,797	0	-1,402,797	-171,237.48	.00	-1,231,559.52	
TOTAL EXPENSES	1,402,797	0	1,402,797	260,046.17	.00	1,142,750.83	

YEAR-TO-DATE BUDGET REPORT

FOR 2022 03							
ACCOUNTS FOR: 6010 Qlife Capital	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
400 BEGINNING FUND BALANCE	-1,784,664	0	-1,784,664	.00	.00	-1,784,664.00	.0%
410 PROPERTY TAXES	-5,000,000	0	-5,000,000	.00	.00	-5,000,000.00	.0%
414 CHARGES FOR SERVICE	-19,000	0	-19,000	-152,851.52	.00	133,851.52	804.5%
417 INVESTMENT EARNINGS	-9,000	0	-9,000	-1,753.16	.00	-7,246.84	19.5%
421 MISCELLANEOUS	0	0	0	-132,145.99	.00	132,145.99	100.0%
450 TRANSFERS IN	-645,020	0	-645,020	-148,755.00	.00	-496,265.00	23.1%
530 CAPITAL OUTLAY	6,391,540	0	6,391,540	54,050.82	107,593.76	6,229,895.42	2.5%
570 CONTINGENCY	391,019	0	391,019	.00	.00	391,019.00	.0%
580 RESERVED	675,125	0	675,125	.00	.00	675,125.00	.0%
TOTAL Qlife Capital	0	0	0	-381,454.85	107,593.76	273,861.09	100.0%
TOTAL REVENUES	-7,457,684	0	-7,457,684	-435,505.67	.00	-7,022,178.33	
TOTAL EXPENSES	7,457,684	0	7,457,684	54,050.82	107,593.76	7,296,039.42	

Wasco County, OR

YEAR-TO-DATE BUDGET REPORT

FOR 2022 03							
ACCOUNTS FOR:	ORIGINAL	TRANFRS/	REVISED			AVAILABLE	PCT
6020 Qlife - Maupin	APPROP	ADJSTMTS	BUDGET	YTD	ACTUAL	BUDGET	USE/COL
400 BEGINNING FUND BALANCE	-118,610	0	-118,610		.00	-118,610.00	.0%
414 CHARGES FOR SERVICE	-7,360	0	-7,360	-2,644.61	.00	-4,715.39	35.9%
417 INVESTMENT EARNINGS	-700	0	-700	-116.03	.00	-583.97	16.6%
520 MATERIALS & SERVICES	16,710	0	16,710	6,006.20	.00	10,703.80	35.9%
530 CAPITAL OUTLAY	51,000	0	51,000	.00	.00	51,000.00	.0%
550 TRANSFERS OUT	50,000	0	50,000	.00	.00	50,000.00	.0%
570 CONTINGENCY	8,960	0	8,960	.00	.00	8,960.00	.0%
TOTAL Qlife - Maupin	0	0	0	3,245.56	.00	-3,245.56	100.0%
TOTAL REVENUES	-126,670	0	-126,670	-2,760.64	.00	-123,909.36	
TOTAL EXPENSES	126,670	0	126,670	6,006.20	.00	120,663.80	

Wasco County, OR

YEAR-TO-DATE BUDGET REPORT

FOR 2022 03							
	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
GRAND TOTAL	0	0	0	-289,400.60	107,593.76	181,806.84	100.0%
** END OF REPORT - Generated by Mike Middleton **							

Wasco County, OR

YEAR-TO-DATE BUDGET REPORT

REPORT OPTIONS

	Field #	Total	Page Break
Sequence 1	1	Y	Y
Sequence 2	5	Y	N
Sequence 3	0	N	N
Sequence 4	0	N	N

Report title:
YEAR-TO-DATE BUDGET REPORT

Includes accounts exceeding 0% of budget.

Print totals only: Y

Print Full or Short description: F

Print full GL account: N

Format type: 1

Double space: N

Suppress zero bal accts: Y

Include requisition amount: N

Print Revenues-Version headings: N

Print revenue as credit: Y

Print revenue budgets as zero: N

Include Fund Balance: N

Print journal detail: N

From Yr/Per: 2021/ 1

To Yr/Per: 2021/ 1

Include budget entries: Y

Incl encumb/liq entries: Y

Sort by JE # or PO #: J

Detail format option: 1

Include additional JE comments: N

Multiyear view: D

Amounts/totals exceed 999 million dollars: N

Year/Period: 2022/ 3

Print MTD Version: N

Roll projects to object: N

Carry forward code: 1

Find Criteria

Field Name Field Value

Fund 60*

Department

Sub Depart

Function

Category

Character Code

Org

Object

Project

Account type

Account status

Rollup Code

Report generated: 10/26/2021 09:05

User: mikem

Program ID: glytdbud

YEAR-TO-DATE BUDGET REPORT

FOR 2021 03							
ACCOUNTS FOR: 6000 Qlife Operations	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
400 BEGINNING FUND BALANCE	-191,714	0	-191,714	.00	.00	-191,714.00	.0%
414 CHARGES FOR SERVICE	-668,200	0	-668,200	-221,480.00	.00	-446,720.00	33.1%
417 INVESTMENT EARNINGS	-1,200	0	-1,200	-498.72	.00	-701.28	41.6%
421 MISCELLANEOUS	-200	0	-200	-1,200.00	.00	1,000.00	600.0%
520 MATERIALS & SERVICES	158,708	0	158,708	55,045.00	.00	103,663.00	34.7%
550 TRANSFERS OUT	376,220	0	376,220	94,055.01	.00	282,164.99	25.0%
590 UNAPPROPRIATED	54,350	0	54,350	.00	.00	54,350.00	.0%
TOTAL Qlife operations	-272,036	0	-272,036	-74,078.71	.00	-197,957.29	27.2%
TOTAL REVENUES	-861,314	0	-861,314	-223,178.72	.00	-638,135.28	
TOTAL EXPENSES	589,278	0	589,278	149,100.01	.00	440,177.99	

YEAR-TO-DATE BUDGET REPORT

FOR 2021 03							
ACCOUNTS FOR: 6010 Qlife Capital	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL
400 BEGINNING FUND BALANCE	-1,853,727	0	-1,853,727	.00	.00	-1,853,727.00	.0%
414 CHARGES FOR SERVICE	-19,000	0	-19,000	-49,140.00	.00	30,140.00	258.6%
417 INVESTMENT EARNINGS	-25,200	0	-25,200	-3,736.36	.00	-21,463.64	14.8%
450 TRANSFERS IN	-426,220	0	-426,220	-94,055.01	.00	-332,164.99	22.1%
530 CAPITAL OUTLAY	80,000	0	80,000	199,082.79	.00	-119,082.79	248.9%
570 CONTINGENCY	-43,253	0	-43,253	.00	.00	-43,253.00	.0%
580 RESERVED	675,125	0	675,125	.00	.00	675,125.00	.0%
TOTAL Qlife Capital	-1,612,275	0	-1,612,275	52,151.42	.00	-1,664,426.42	-3.2%
TOTAL REVENUES	-2,324,147	0	-2,324,147	-146,931.37	.00	-2,177,215.63	
TOTAL EXPENSES	711,872	0	711,872	199,082.79	.00	512,789.21	

Wasco County, OR

YEAR-TO-DATE BUDGET REPORT

FOR 2021 03							
ACCOUNTS FOR:	ORIGINAL	TRANFRS/	REVISED			AVAILABLE	PCT
6020 Qlife - Maupin	APPROP	ADJSTMTS	BUDGET	YTD ACTUAL	ENCUMBRANCES	BUDGET	USE/COL
400 BEGINNING FUND BALANCE	-169,456	0	-169,456	.00	.00	-169,456.00	.0%
414 CHARGES FOR SERVICE	-7,360	0	-7,360	3,516.39	.00	-10,876.39	-47.8%
417 INVESTMENT EARNINGS	-700	0	-700	-361.93	.00	-338.07	51.7%
520 MATERIALS & SERVICES	17,710	0	17,710	2,291.48	.00	15,418.52	12.9%
530 CAPITAL OUTLAY	51,000	0	51,000	.00	.00	51,000.00	.0%
550 TRANSFERS OUT	50,000	0	50,000	.00	.00	50,000.00	.0%
570 CONTINGENCY	45,006	0	45,006	.00	.00	45,006.00	.0%
580 RESERVED	13,800	0	13,800	.00	.00	13,800.00	.0%
TOTAL Qlife - Maupin	0	0	0	5,445.94	.00	-5,445.94	100.0%
TOTAL REVENUES	-177,516	0	-177,516	3,154.46	.00	-180,670.46	
TOTAL EXPENSES	177,516	0	177,516	2,291.48	.00	175,224.52	

Wasco County, OR

YEAR-TO-DATE BUDGET REPORT

FOR 2021 03								
	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USE/COL	
GRAND TOTAL	-1,884,311	0	-1,884,311	-16,481.35	.00	-1,867,829.65	.9%	
** END OF REPORT - Generated by Mike Middleton **								

YEAR-TO-DATE BUDGET REPORT

REPORT OPTIONS

	Field #	Total	Page Break
Sequence 1	1	Y	Y
Sequence 2	5	Y	N
Sequence 3	0	N	N
Sequence 4	0	N	N

Report title:
YEAR-TO-DATE BUDGET REPORT

Includes accounts exceeding 0% of budget.
 Print totals only: Y
 Print Full or Short description: F
 Print full GL account: N
 Format type: 1
 Double space: N
 Suppress zero bal accts: Y
 Include requisition amount: N
 Print Revenues-Version headings: N
 Print revenue as credit: Y
 Print revenue budgets as zero: N
 Include Fund Balance: N
 Print journal detail: N
 From Yr/Per: 2021/ 1
 To Yr/Per: 2021/ 1
 Include budget entries: Y
 Incl encumb/liq entries: Y
 Sort by JE # or PO #: J
 Detail format option: 1
 Include additional JE comments: N
 Multiyear view: D
 Amounts/totals exceed 999 million dollars: N

Year/Period: 2021/ 3
 Print MTD Version: N
 Roll projects to object: N
 Carry forward code: 1

Find Criteria
 Field Name Field Value
 Fund 60*
 Department
 Sub Depart
 Function
 Category
 Character Code
 Org
 Object
 Project
 Account type
 Account status
 Rollup Code

Qlife – Financial Analysis for September 2021 Financial Statements

The financial statements for through the 3rd month of the 2022 fiscal year (FY22) are presented. The statements are intended for the use of management and are not audited. The expected straight-line assumption for accounts is 25.0% (3/12). This is typically a good starting point for analysis.

Also of note is the format of the reports is changing. This is a standard report from the new financial system. While this reporting model is still in a state of flux, it does serve the purpose of summarizing the data for the fiscal year. At this time, a year to year comparative report is not quite ready for use but should be rolled out for the October reporting. To allow comparisons, if desired, the same report format is used for last fiscal year. When applicable the notes below will refer to the prior year (PY) report.

Operations Fund

Total revenues of the fund are \$171,237. This is a 23% execution rate but also \$52K less than the actuals for last fiscal year. The amount is all utility service charges and is on budget.

The accounts receivable are not included in this report due to working through the new software. Currently there are issues with accurately showing the payments applied to invoices created in the old system. A manual review of the invoices aging shows a total outstanding of \$48,825 with \$41,675 in 1-30 days, \$6,480 in 31-60 days, \$0 in 61-90 days and \$670 in 91-120 days. Staff are working to clean up the report and address the late invoices (2 in 91-120 days).

Interest is down compared to last fiscal year. This is due to the decreased interest rates. Currently interest is \$292 fiscal year to date; the PY was \$499 for a decrease of \$207.

Expenditures are for the most part in line with expectations. Materials & services are executing at 32.6% The exceptions are:

- Administrative Costs 89.1% - Staff researched. For some reason – assuming miss-keying. This is still within the budget which will not be exceeded. This only causes a timing discrepancy. – No change from August report
- Contacted Services – Legal 108.2% increased \$1,408 in September
- Dues & Subscriptions 160.1% - No change from August report
- Scholarship 100.0% - No change from August report

Finance has researched and will continue to review all transactions.

As it sits now, the fund balance is decreasing by \$88,809. While a decrease of the fund balance is planned, this is a bit faster than expected. This seems to be timing – the Administrative costs are running about \$45K ahead of schedule. Even with a declining fund balance, this includes transferring \$148,755 to the Capital fund.

Capital Fund

Revenue has a large spike, this is due to a billing submitted for \$152,851 that had not been considered in the budget. Other than that, there is nothing out of the ordinary in the revenue here.

The Beginning Fund Balance will be entered in October. The category labeled "Property Taxes" is actual the potential grant added into the budget created. This is a label mismatch in the new system and is being addressed by Finance.

Expenditures to date have been minimal.

The fund has an additional \$5 million built into it in case any of the available grant funds can be claimed. In that event, the budget is prepared to utilize the additional funds. If not, the \$5M in revenues and expenditures will not be utilized.

Maupin Fund

The Gorge.Net receipts are in revenues. Interest is down.

Expenditures have totaled \$6,006 for the Maupin Wifi contract

The fund is now decreasing due to the Wifi contract charges, but this is expected. Additional revenue should be coming in that will hold the fund stable.

Summary

The funds are in good positions. However, with the implementation of the new system, there are discrepancies Finance is still addressing. (Accounts receivable report, labeling grant revenue "property tax", following up on Maupin fund revenues.)



Discussion Items

- Admin Staff Updates
 - [Dry Hollow RFP](#)
- Avangrid Update
- Broadband Action Team
- [Aristo Technical Management Report](#)

INVITATION FOR BIDS

Q-LIFE NETWORK DRY HOLLOW CABINET EXTENSION

Prepared by:



Commstructure Consulting, LLC
811 Railroad Avenue
Oregon City, OR 97045

TABLE OF CONTENTS
Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

PART 1 - BID BOOKLET

Bidder Checklist
Advertisement for Bids
Prequalification Form
Proposal
Bid Bond
Subcontractor Disclosure Form
Non-Collusion Affidavit
Responsibility Determination Form
Notice of Award

PART 2 - CONTRACT BOOKLET

Contract
Performance Bond
Payment Bond
Notice to Proceed
Certification of Workers' Compensation Coverage

PART 3 – SPECIAL PROVISIONS

PART 4 – UNIT PRICING ELECTRONIC FORM

PART 5 – DRAWINGS

DESCRIPTIONS OF PARTS OF CONTRACT WHICH ARE NOT BOUND HEREIN

(1) Standard Specifications

The “Oregon 2015 Standard Specifications for Construction”. Copies of the Oregon 2015 Standard Specifications for Construction may be obtained by downloaded at:

https://www.oregon.gov/ODOT/HWY/SPECS/docs/15book/2015_STANDARD_SPECIFICATIONS.pdf

(2) Prevailing Wage Rates

The current “Prevailing Wage Rates for Public Works Contracts in Oregon” published by the Oregon Bureau of Labor and Industries.

Current copies of the “Prevailing Wage Rates for Public Works Contracts in Oregon” may be obtained by contacting Oregon Bureau of Labor and Industries (971) 673-0761 or downloaded at:

www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx

PART 1 – BID BOOKLET

BIDDER'S CHECKLIST

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

___ Completed Prequalification Form and submit as directed in the Invitation to Bidders (as required), by the following date:

November 19, 2021 at 2:00 PM

ITEMS TO BE INCLUDED IN BID SUBMITTAL:

- ___ Completed Bid Proposal
- ___ Completed Affidavit of Non-Collusion
- ___ Certified check, cashier's check, or completed Bidder's Bond
- ___ Signed addenda as may be issued during the bidding period
- ___ Completed Disclosure of First-Tier Subcontractors Form per Section 00120.40(f)-
Submitted within two hours of Bid Opening
- ___ Delivered per methods described in Section 00120.45



QualityLife Intergovernmental Agency

ADVERTISEMENT FOR BIDS

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

Separate sealed bids for **Q-LIFE NETWORK - DRY HOLLOW CABINET EXTENSION** will be received by the **Q-LIFE NETWORK**, hereinafter referred to as **Q-LIFE**, at the office of the **County Clerk, Wasco County Courthouse, 511 Washington Street Ste. 201, The Dalles, OR 97058** as follows:

2:00 PM Pacific Standard Time on November 19, 2021

The bids will then be publicly opened and read aloud. Bids must be submitted on the Cost Forms furnished by Q-Life and shall bear the signature of the Bidder. First Tier Subcontractor Disclosure Forms must be submitted by **2:00 PM** the same date at said office.

This project will provide infrastructure expansion of the Q-Life Networks fiber optic network in The Dalles, Oregon. The work to be performed shall consist of furnishing all labor, equipment, and materials to place new fiber cable along existing aerial pathway and construct a new aerial pathway; proofing and pulling cable through an existing underground pathway. The scope of work shall meet or exceed the specifications set forth in the bid documents.

Please note: Splicing operations not included in the scope of this RFP.

Bidders must register and obtain Solicitation Documents online at the Oregon Buys website (Formerly known as ORPIN):

<https://oregonbuys.gov/bsol/>

Opportunity Number:



QualityLife Intergovernmental Agency

Bidders can also request Solicitation Documents via email by contacting the following:

▪ **Dan McNeely Project Manager**

- Commstructure Consulting, LLC – 811 Railroad Avenue – Oregon City, OR 97045
- Phone – (503) 798-2828
- Email - dan@commstructureconsulting.com

No pre-proposal meeting will be held regarding this project. Bidders are highly recommended to submit review the project documents and respond with any and all questions. Questions are to be sent via email to Dan McNeely via email at the following address:

dan@commstructureconsulting.com

All **Questions** related to the project must be received by **5:00 PM** on **November 12, 2021**. **Answers** to all questions will be returned by **5:00 PM** on **November 17, 2021**

Bidders must be pre-qualified to provide communications infrastructure construction services in accordance with the laws of the State of Oregon. Prequalification forms must be received by **2:00 PM on November 19, 2021** at the office of the County Clerk, Wasco County Courthouse, 511 Washington Street Ste. 201, The Dalles, OR 97058 or via email: dan@commstructureconsulting.com If you have pre-qualified with Q-Life on other projects within the last 2 years, pre-qualification is not required for this project.

The attention of Bidders is particularly called to the requirements as to the disclosure of First Tier Subcontractors contained in the RFP package & Part 00100 - General Conditions. https://www.oregon.gov/ODOT/HWY/SPECS/docs/15book/2015_STANDARD_SPECIFICATIONS.pdf

The attention of Bidders is also particularly called to the requirements for Prevailing Wage rates. www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx

Q-Life reserves the right to reject any and all proposals not in compliance with all prescribed proposal procedures and requirements and may reject any or all proposals upon a finding by Q-Life that it is in the public interest to do so. Q-Life also reserves the right to waive any informality in connection with said proposals. No proposal may be withdrawn after the time set for the proposal opening or before the award of the Contract, unless the award is delayed for a period exceeding 60 days.

Bids will be considered, and intent to award communicated within 30 Calendar Days from the date of Bid Opening, unless an extension beyond that time is agreed to by both parties and acknowledged in writing by the Bidder.

PUBLISHING DATE: _____

PREQUALIFICATION FORM

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

PROPOSER'S GENERAL INFORMATION

The Proposer shall furnish the following information. Additional Sheets shall be attached as required. Failure to complete Item Nos. 1, 3, and 8, will cause the Proposal to be non-responsive and may cause its rejection. In any event, no acceptance will be made until the fully completed form is delivered to **Q-LIFE**.

Item 1. CONTRACTOR'S Name and Address

Item 2. CONTRACTOR'S Telephone Number: _____

Item 3. CONTRACTOR's License: Primary Classification _____

State License No. _____,

Supplemental classifications held, if any: _____

Name of Licensee, if different from (1) _____

Item 4. Name of person who will be inspecting site of proposed WORK for your firm:

Name: _____

Item 5. Name, address, and telephone number of Surety Company and agent who will provide the required bonds on this contract:

Item 6. ATTACH TO THIS PROPOSAL the experience resume of the person who will be designated chief project superintendent or on-site project manager.

Item 7. ATTACH TO THIS PROPOSAL a financial statement, references, and other information, sufficiently comprehensive to permit an appraisal of CONTRACTOR's current financial condition.

Item 8. ATTACH TO THIS PROPOSAL a copy of your copy of your company's brochure or marketing Material.

Item 9. ATTACH TO THIS PROPOSAL or list below three (3) projects completed as of recent date involving work of a similar type and complexity:

Project Owner and Description	Contract Price	Owner Contact Information

PROPOSAL

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

Proposal of _____ (hereinafter called **BIDDER**),
organized and existing under the laws of the State of _____, doing business as
* _____ to Q-LIFE NETWORK, (hereinafter called **Q-LIFE**).
* *Insert "a corporation", "a partnership", or "an individual", as applicable.*

In compliance with your Advertisement for Bids, **BIDDER** hereby proposes to perform all work necessary for

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

in strict accordance with the contract documents, within the time set forth herein, and at the prices stated below and in the Cost Forms attached.

By submission of this Proposal, each **BIDDER** certifies, and in the case of a joint Proposal each party certifies as to his own organization, that this Proposal has been arrived at independently, without consultation, communication or agreement as to any matter relating to this Proposal with any other **BIDDER** or with any competitor.

BIDDER hereby agrees to commence work under this contract on or before a date to be specified in the Notice to Proceed and to fully complete the project by _____.

BIDDER further agrees to pay liquidated damages, the sum calculated at the per diem rate set forth in Section 00180.85(b) for each consecutive calendar day thereafter for which the Contractor is in breach of the Contract.

BIDDER further states that provisions of ORS 279C.830 will be complied with.

BIDDER in supplying this proposal acknowledges the receipt of the Contract Document package.

BIDDER further acknowledges receipt of the following Addenda:

- | | |
|-------------|-------------|
| No. 1 _____ | Date: _____ |
| No. 2 _____ | Date: _____ |
| No. 3 _____ | Date: _____ |

BIDDER agrees to perform all the work described in the contract documents for the following unit prices or lump sum prices and in accordance with the electronic cost forms submitted (if applicable)

BID SCHEDULE

See Exhibit A Unit Pricing Electronic Form (Excel)*

** Bidder to download and insert pricing into the Form contained in the RFP*

Segment 1

Segment 2

****TOTAL – ALL SECTIONS:**

*** Bidder shall enter the total amount of the bid above. Also, Bidder must attach the completed, printed and signed Unit Pricing Form contained in the RFP.*

BIDDER acknowledges through the submission of this Proposal that the work to be performed in this project shall require close coordination with **Q-LIFE**.

Respectfully submitted,

(Contractor)

By _____ Date: _____

Address: _____

License Number (if applicable): _____

SEAL (if Bid is by a Corporation)

ATTEST: _____

Resident or Non-Resident Bidder * _____

* A resident bidder means a bidder that has paid unemployment taxes or income taxes in the State of Oregon during the twelve (12) calendar months immediately preceding submission of the proposal and has a business address in the State of Oregon.

BID BOND

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

(SEE SECTION 00120.40(E) - 10%)

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned

_____ as Principal, and
_____ as Surety, are hereby
held and firmly bound unto **Q-LIFE NETWORK** in the penal sum of \$_____ for the
payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our
successors, and assigns.

Signed, this ____ day of _____, 2021.

The Condition of the above obligation is such that whereas the Principal has submitted to **Q-LIFE NETWORK** a certain **PROPOSAL**, attached hereto and hereby made a part hereof to enter into a contract in writing, for:

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

NOW, THEREFORE

(a) If said **PROPOSAL** shall be rejected, or

(b) If said **PROPOSAL** shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said **PROPOSAL**) and shall furnish a **BOND** for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said **PROPOSAL**, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its **BOND** shall be in no way impaired or affected by any extension of the time within which **Q-LIFE** may accept such **PROPOSAL**; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____ (L.S.)
(Principal)

By _____
(Title)

(Surety)

By _____
(Title)

IMPORTANT - Surety companies executing **BONDS** must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.

DISCLOSURE OF FIRST-TIER SUBCONTRACTORS

Q-LIFE NETWORK – DRY HOLLOW CABINET EXSTENSION

PROJECT NAME: **Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION**

BID CLOSING: **Date:** November, 19 **Time:** 2:00 PM

This form must be submitted at the location specified in the Invitation to Bid on the advertised bid closing date and within two working hours after the advertised bid closing time. List below the name of each subcontractor that will be furnishing labor or materials and that is required to be disclosed, the category of work that the subcontractor will be performing and the dollar value of the subcontract. Enter "NONE" if there are no subcontractors that need to be disclosed.

ATTACH ADDITIONAL SHEETS IF NEEDED.

<u>NAME</u>	<u>DOLLAR VALUE</u>	<u>CATEGORY OF WORK</u>
1) _____ _____ _____		_____ _____ _____ _____
2) _____ _____ _____		_____ _____ _____ _____
3) _____ _____ _____		_____ _____ _____ _____
4) _____ _____ _____		_____ _____ _____ _____

Failure to submit this form by the disclosure deadline will result in a nonresponsive bid. A nonresponsive bid will not be considered for award.

Form submitted by (bidder name): _____

Contact name: _____ Phone No. _____

Q-Life must receive this form by: November 19 at 2:00 PM

NON-COLLUSION AFFIDAVIT

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

STATE OF _____)
) ss.
County of _____)

I state that I am (title) _____ of (name of firm) _____ and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this bid.

I state that:

A. The price(s) and amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder, except as disclosed on the attached appendix.

B. That neither the price(s) nor the amount of this bid, and neither the approximate prices(s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before bid opening.

C. No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.

D. The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.

E. (name of firm) _____, its affiliates, subsidiaries, officers, directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act prohibited by State of Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as described on the attached appendix.

I state that (name of firm) _____ understands and acknowledges that the above representations are material and important, and will be relied on by Q-Life in awarding the contract(s) for which this bid is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from Q-Life of the true facts relating to the submission of bids for this contract.

(Name of Company/Position)

Sworn to and subscribed before me this _____ day of _____, 2021.

NOTARY PUBLIC FOR OREGON
My Commission expires: _____

RESPONSIBILITY DETERMINATION FORM

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

Project Name: **Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION**

Business Entity Name: _____

CCB License Number: _____

Form Submitted By: Q-Life Network

Q-Life Representative: Name: _____

Title: _____

Date: _____

Q-Life Network has done all of the following:

- Checked the list created by the Construction Contractors Board under ORS 701.227 for bidders who are not qualified to hold a public improvement contract.
- Determined whether the bidder has met the standards of responsibility. In so doing, Q-Life has considered whether the bidder:
 - Has available the appropriate financial, material, equipment, facility and personnel resources and expertise, or the ability to obtain the resources and expertise, necessary to meet all contractual responsibilities.
 - Holds current licenses that businesses or service professionals operating in this state must hold in order to undertake or perform the work specified in the contract.
 - Is covered by liability insurance and other insurance in amounts required in the solicitation documents.
 - Qualifies as a carrier-insured employer or a self-insured employer under ORS 656.407 or has elected coverage under ORS 656.128.
 - Has disclosed the bidder's first-tier subcontractors in accordance with ORS 279C.370.
 - Has a satisfactory record of performance.
 - Has a satisfactory record of integrity.

- Is qualified legally to contract with Q-Life.
 - Has supplied all necessary information in connection with the inquiry concerning responsibility.
 - Has complied with the tax laws of the State or a political subdivision of the State, including ORS 305.620 and ORS Chapters 316, 317, and 318.
-
- Determined the bidder to be one of the following:
 - Responsible under ORS 279C375(2)(a) and (b).
 - Not responsible under ORS 279C.375(2)(a) and (b)

NOTICE OF AWARD

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

TO: Contractor: _____

Address: _____

PROJECT DESCRIPTION:

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

Q-Life has considered the **BID** submitted by you for the above described work in response to its Advertisement for Bids dated _____, 2021.

You are hereby notified that your **BID** has been accepted for the amount \$ _____

You are required by the General Conditions to execute the Contract and furnish the required **Contractor's Performance Bond, Payment Bond, and Original Certificates of Insurance** within ten (10) calendar days from the date of receipt of this notice.

If you fail to execute said Contract and to furnish said **BONDS** and original certificates of insurance within ten (10) days from the date of this Notice, **Q-LIFE** will be entitled to consider all of your rights arising out of **Q-LIFE's** acceptance of your **BID** as abandoned and forfeit your **BID BOND**. Q-Life will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this **NOTICE OF AWARD** to **Q-LIFE**, c/o County Clerk, Wasco County Courthouse, 511 Washington Street, The Dalles, OR 97058

Dated this _____ day of _____, 2021.

Q-LIFE NETWORK

By _____
Q-Life Administrator

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE OF AWARD** is hereby acknowledged

By _____
(Company Name)

this the _____ day of _____, 2021.

By _____ Title _____

PART 2 – CONTRACT BOOKLET

3. Performance and Payment Bonds

Concurrently with the execution of this contract, and as a condition to the validity of this contract, Contractor shall furnish the payment and performance bonds to Q-Life in the forms specified and with a surety satisfactory to Q-Life in the penal sum equal to the Contract Price in Recital C, conditioned upon the faithful performance of this contract upon the part of the Contractor.

4. Authority of Contracting Officer

The Contracting Agent for this contract is Scott Hege, QLife President. The Contracting Agent shall have the authority to act on behalf of Q-Life in the administration and interpretation of this contract.

5. Responsibilities of Q-Life

Q-Life will provide information, documents, materials, and services within the possession or control of Q-Life and are required by Contractor for performance of the services. Q-Life shall cooperate fully with Contractor to achieve the objectives of this contract. Copying or reproduction fees may apply.

6. Payment

Q-Life shall pay Contractor for completion of the work in accordance with the Conditions for Public Improvement Contracts (Exhibit B), General Conditions, Contractor's bid, and ORS 279C.550 to 279C.570.

7. Warranties

Contractor shall warrant the work for a period of two years from the date of final acceptance by Q-Life and shall retain the performance bond in full force until the end of the 2-year warranty period.

8. Compliance with Law

The provisions of this contract shall be construed in accordance with the laws of the State of Oregon. Contractor agrees, while providing services covered by this contract, Contractor will comply with all applicable state, federal and local laws, rules, regulations and ordinances including, but not limited to, the laws and rules cited in this paragraph. Any provision of this contract in conflict with applicable laws, rules, regulations or ordinances is void.

9. Ownership of Documents

All documents prepared by Contractor pursuant to this contract are the property of Q-Life.

10. Records

Contractor shall keep proper books of account and other records pertaining to the services Contractor provides to Q-Life. The books and records shall be made available at a location reasonably accessible to Q-Life, who may inspect all such books and records, at reasonable times, to verify Contractor's compliance

with this contract. Q-Life shall have the right to request an annual audit of Contractor's books and records by a certified public accountant chosen by Q-Life to determine Contractor's compliance with the terms of this contract. The cost of the audit shall be borne by Q-Life.

11. Default

A default occurs under any of the following circumstances:

11.1 If the Contractor: (a) fails to begin the work under contract within the time specified; (b) fails to perform the work with sufficient workers or equipment or with sufficient materials to insure the prompt completion of the project; (c) neglects or refuses to remove materials or perform anew any work that is rejected as defective or unsuitable; or (d) discontinues the prosecution of the work.

11.2 If the Contractor: (a) becomes insolvent or declared bankrupt, or commits any act of bankruptcy or insolvency; (b) allows any final judgment to stand against the Contractor unsatisfied for a period of 48 hours; or (c) makes an assignment for the benefit of creditors.

11.3 If either party fails to perform any act or obligation required of that party by this contract within ten days after the other party gives written notice specifying the nature of the breach with reasonable particularity. If the breach specified in the notice is of such a nature it cannot be completely cured within the ten-day period, no default occurs if the party receiving the notice begins performance of the act or obligation within the ten-day period and thereafter proceeds with reasonable diligence and in good faith to effect the remedy as soon as practicable.

11.4 Notwithstanding subparagraphs 11.1 through 11.3, either party may declare a default by written notice to the other party, without allowing an opportunity to cure, if the other party repeatedly breaches the terms of this agreement.

12. Remedies

If a default occurs, the party injured by the default may elect to terminate this contract and pursue any equitable or legal rights and remedies available under Oregon law. All remedies are cumulative.

12.1 In addition to the rights and remedies to which Q-Life may be entitled by law for the enforcement of its rights under this contract, Q-Life has full power and authority, without violating this contract, to take the prosecution of the work from the Contractor, and appropriate or use any or all of the materials and equipment on the ground that may be suitable and acceptable and may cause a contract for the completion of this contract according to its terms and provisions, or use such methods as required for the completion of the contract, in any acceptable manner. All costs and charges incurred by Q-Life together with the costs of completing the work under the contract shall be deducted from any money due or which shall become due the Contractor. In case the expense so incurred by Q-Life is less than the sum that would have been payable under the contract if it had been completed by the Contractor, then the Contractor is entitled to receive the difference less any damages for delay to which Q-Life may be entitled. In case the expense exceeds the sum that would have been payable under the contract, the Contractor and the surety are liable and agree to and shall pay Q-Life the amount of the excess with damages for delay of performance, if any.

12.2 Any litigation arising out of this contract shall be conducted in the Circuit Court of the State of Oregon for Wasco County.

12.3 Contractor and Q-Life recognize time is of the essence of this Contract and Q-Life and public will be damaged if the work is not completed within the times specified in paragraph 2.2 above, plus any extensions thereof allowed in accordance with the General Conditions. The parties agree the amount of damages to Q-Life and public will be difficult to determine. Therefore, Contractor agrees to pay the amount of liquidated damages specified below or if no liquidated damages are specified, Contractor will be liable to Q-Life for whatever damages Q-Life may actually establish. Liquidated damages will be measured not only by direct losses to Q-Life as a result of the delay, but intangible losses to the general public such as loss of use. Liquidated damages are assessed for each calendar day of delay, including holidays and weekends and run until the Project is substantially complete, regardless of whether the Contractor or a replacement Contractor achieves substantial completion. Liquidated damages are intended to compensate Q-Life and public for Contractor's delay in completion of the work. Q-Life has the right to recover additional damages not solely based on delay in addition to liquidated damages, such as the excess costs of reprocurement or completion, the costs of restoring uncompleted work, and costs paid to replacement contractors or Q-Life's own employees for completion of the work. Permitting Contractor to complete the work is not a waiver of this provision. Q-Life may retain liquidated damages from any payment or retainage due to Contractor. Payment or assessment of liquidated damages does not release Contractor's obligation to fulfill the entire Contract.

Liquidated damages shall be \$200.00 per day for each day beyond the date specified for Substantial Completion the work of the contract is not complete.

13. Termination and Suspension

Q-Life may terminate or suspend this contract for public interest reasons in accordance with ORS 279C.650 to 279C.665.

14. Notices

Any notice required to be given under this contract or any notice required to be given by law shall be in writing and may be given by personal delivery or by registered or certified mail, or by any other manner prescribed by law. Notices to Q-Life and notices to the Contractor shall be addressed as indicated above.

15. Assignment

Q-Life and Contractor, and the respective successors, administrators, assigns, and legal representatives of each, are bound by this contract to the other party to this contract and to the partners, successors, administrators, assigns, and legal representatives of such other party. Contractor shall not assign or subcontract Contractor's rights or obligations under this contract without prior written consent of Q-Life. Except as stated in this subparagraph, nothing in this contract shall be construed to give any rights or benefits to anyone other than Q-Life and Contractor.

16. Q-Life Benefits

This contract is not intended to entitle the principals or employees of Contractor to any benefits generally granted to Q-Life employees. Without limitation, but by way of illustration, the benefits not intended to be extended by this contract are vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, social security, workers' compensation, unemployment compensation, or retirement benefits (except insofar as benefits are otherwise required by law if the Contractor is presently a member of the Public Employees Retirement System).

17. Severability

If any provision of this contract is held to be invalid or illegal, the invalidity or illegality shall not affect any other provisions of this contract, and this contract shall be construed as if the invalid or illegal provision had never been included in the contract.

18. Modification

No modification of this contract is valid unless in writing and signed by the parties.

19. No Waiver

No term or provision of this contract is deemed waived and no breach excused, unless the waiver is written and signed by the party claimed to have made the waiver. Any waiver of a breach does not constitute a waiver of any other different or subsequent breach.

20. Prior Agreements

The contract documents constitute the entire, final and complete agreement of the parties pertaining to the services, and supersede and replace all prior and existing written or oral understandings except as otherwise continued in effect by the terms of this contract.

CONTRACTOR

Q-LIFE

By:

By:

Title:

Title:

Date:

Date:

Fed ID #:

PERFORMANCE BOND

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

KNOW ALL MEN BY THESE PRESENTS THAT:

(Name of Contractor)

(Address of Contractor)

a _____*, hereinafter called **CONTRACTOR**
(*Corporation, Partnership, Individual)

Principal, and _____
(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto:

Q-LIFE NETWORK

(Name of Owner)

511 Washington Street, The Dalles, OR 97058

(Address of Owner)

hereinafter called **Q-LIFE**, in the penal sum of _____ (**\$ 0.00**) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF OBLIGATION is such that whereas, the Principal entered into a certain contract with **Q-LIFE** dated the _____ day of _____, 2021, a copy of which is hereto attached and made a part hereof for:

Q-LIFE NETWORK – DRY HOLOW CABINET EXTENSION

NOW, THEREFORE, if the Principal shall well, truly, and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by **Q-LIFE**, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contact, and shall fully indemnify and save harmless **Q-LIFE** from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay **Q-LIFE** all outlay and

expense which **Q-LIFE** may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the **WORK** to be performed thereunder or the **SPECIFICATIONS** accompanying the same shall in any way affect its obligation on this **BOND**, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the **WORK** or to the **SPECIFICATIONS**.

PROVIDED FURTHER, that no final settlement between **Q-LIFE** and the **CONTRACTOR** shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three (3) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2021.

ATTEST:

Secretary
(Principal)

Principal

(SEAL)

BY _____

Witness as to Principal

(Address)

Surety

ATTEST:

BY _____
Attorney-in-Fact

Witness as to Surety

(Address)

(Address)

Phone: _____

NOTE: Date of **BOND** must not be prior to date of **CONTRACT**. If **CONTRACTOR** is a Partnership, all partners should execute **BOND**.

IMPORTANT: Surety companies executing **BONDS** must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the **PROJECT** is located.

PAYMENT BOND

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

KNOW ALL MEN BY THESE PRESENTS THAT:

(Name of Contractor)

(Address of Contractor)

a _____*, hereinafter called **CONTRACTOR**
(*Corporation, Partnership, Individual)

Principal, and _____
(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto:

Q-LIFE NETWORK

(Name of Owner)

511 Washington Street, The Dalles, OR 97058

(Address of Owner)

hereinafter called **Q-LIFE**, in the penal sum of _____, (**\$ 0.00**) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF OBLIGATION is such that whereas, the Principal entered into a certain contract with **Q-LIFE** dated the _____ day of _____, 2021, a copy of which is hereto attached and made a part hereof for

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

NOW, THEREFORE, if Principal shall promptly make payment to all persons, firms, **SUBCONTRACTORS**, and corporations furnishing materials for or performing labor in the prosecution of the **WORK** provided for in such contract, and any authorized extension or modification thereof, including all insurance premiums on said **WORK**, and for all labor, performed in such **WORK**, whether by **SUBCONTRACTOR** or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the **WORK** to be performed there under or the **SPECIFICATIONS** accompanying the same shall in any way affect its obligation on this **BOND**, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the **WORK** or to the **SPECIFICATIONS**.

PROVIDED FURTHER, that no final settlement between **Q-LIFE** and the **CONTRACTOR** shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three (3) counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2021.

ATTEST:

Secretary
(Principal)

(SEAL)

Witness as to Principal

(Address)

ATTEST:

Witness as to Surety

(Address)

Principal

BY _____

Surety

BY _____
Attorney-in-Fact

(Address)

Phone: _____

NOTE: Date of **BOND** must not be prior to date of **CONTRACT**. If **CONTRACTOR** is a Partnership, all partners should execute **BOND**.

IMPORTANT: Surety companies executing **BONDS** must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the **PROJECT** is located.

NOTICE TO PROCEED

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

**TO: Contractor Name
Contractor Address**

Date:

PROJECT DESCRIPTION:

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

Q-Life has executed the contract documents for the above mentioned project. You are hereby notified to commence **WORK** in accordance with the **CONTRACT** dated _____, on or before _____.

BEFORE ON-SITE WORK CAN COMMENCE, the following items below need to be completed (00180.40(b)):

- **Return an acknowledged copy of Notice to Proceed to Q-Life (00130.90)**
- **Contract Submittals – Submitted 5 days prior to a preconstruction meeting**
 - Project Work Schedule (00180.41)
 - Traffic Control Plan (00225.05)
 - Approved Sidewalk/Street Closure Permit (City of The Dalles)
- **Schedule and attend the Preconstruction Meeting with representatives of Q-Life and Project Permit Agencies**

Only after the preconstruction meeting is held and project submittals are reviewed and approved, can On-site Work for the project begin.

Q-LIFE NETWORK

By _____
Q-Life Administrator

ACCEPTANCE OF NOTICE

Receipt of the above **NOTICE TO PROCEED** is hereby acknowledged

By _____
(Company Name)

this the _____ day of _____, 2021.

By _____ Title _____

CERTIFICATION OF WORKERS' COMPENSATION COVERAGE

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

The Contractor, for the purposes of this contract, hereby certifies that it is currently providing Oregon Workers' Compensation coverage for all its employees and will maintain coverage throughout the course of the project through one of the following methods:

1. "Carrier-Insured Employer" (State Accident Insurance Fund corp. or other authorized insurer)

Insurance Company Name _____

ID/Policy Number _____

2. "Self-Insured Employer" (Certified by the Workers' Compensation Division)

ID number as assigned by the
Workers' Compensation Division _____

3. I am an independent contractor and will perform all work under this contract without the assistance of others.

In the event of cancellation or change in the information above, Contractor certifies that it will immediately notify the Department of said cancellation or change and will obtain alternate coverage.

Dated _____ 20__

(Contractor's Signature)

REMINDER – ADDITIONAL INFORMATION NEEDED

Has your insurance carrier filed with Oregon Workers' Compensation Division a guaranty contract as proof of coverage for your employees working in Oregon?

For filing information, contact the Workers' Compensation Division at Labor and Industries Building: Salem, OR 97301; Phone (503) 947-7810

PART 3 – SPECIAL PROVISIONS

SPECIAL PROVISIONS

Q-LIFE NETWORK – DRY HOLLOW CABINET EXTENSION

1. Project Contact Information

Questions regarding plans, specifications and project requirements should be directed to:

Dan McNeely
Project Manager - Commstructure Consulting, LLC
811 Railroad Avenue
Oregon City, OR 97045
Tel: (503) 798-2828
dan@commstructureconsulting.com

Questions regarding the contract forms shall be directed to:

Matthew Klebes
511 Washington Street, Suite 101
The Dalles, Oregon 97058
Tel: (541) 993-7952
matthewk@co.wasco.or.us

2. Project Overview

This project will entail placement of new fiber optic cable along existing aerial pathways, creation of new aerial pathways, and utilization of existing underground pathways. The project is divided into two The scope of work will include but not limited to:

New Aerial Fiber Cable Lashing
New Aerial Fiber Cable Overlashing
Fiber Cable Slack Storage
New Underground Fiber Cable

*Please see Construction Drawings and KMZ for additional details and specifications.

The following is a detailed Scope of Work for this project.

3. Scope of Work

This project will begin at an existing aerial splice at State Road, near Highway 30 (I-84), proceeding southeasterly approx. 1,200 feet via over-lashing on an existing fiber optic segment going up a hill to NWCPUD Pole #130124200 on the south side of Fremont Street, A new 6.6m strand and 288F cable will turn west and cross Old Dufur Road to NWCPUD Pole #130114210, turn south on Richmond Road for Approx. 1,300 feet along the west side of the road to SE 12th Street, turn south on Richmond Road for approx. 6,400 feet along the south side of 12th Street at NWCPUD Pole # 130114080. From here, the new 6.6m strand and 288F cable will continue west for approx. 6,400 feet to NWCPUD Pole #13023061 where it will turn North and continue along an existing Q-Life strand and fiber pathway to NWCPUD Pole #1302080 where a new 6.6m strand and 288F cable will continue for approx. 850 feet to SE 9th Street, turn west and continue along 9th Street for approx. 2,300 feet to NWCPUD Pole #13022160 located at H Street and continue North for approx. 546 feet to NWCPUD Pole #130322221 where the new 6.6m strand will be permanently dead-ended to existing Q-Life attachments. The new 288F cable will continue via over-lashing for one span to existing riser pole NWCPUD Pole #130333220 where the cable will be pulled through the existing Q-Life riser and underground conduit to an existing Q-Life Utility vault where slack will be left for splicing and termination (splicing and termination to be completed under a separate scope.

Slack in the new 288F cable will be stored along the route in strategic locations, over-head guys, down guys and anchors will be placed along the route as detailed in the Construction Drawing

4. Unit Detailed Descriptions

AE01 – Place ¾” Anchor & 6.6M Down Guy w/ Insulator:

All labor and materials required to place a ¾” or greater anchor and 6.6M down guy with insulator and guy marker.

AE02 – Place 6.6M Down Guy w/ Insulator:

All labor and materials required to place a 6.6M down guy with insulator and guy marker to an existing anchor.

AE03 – Over-Lash New Fiber Cable on Existing Strand:

All labor and materials required to place fiber cable along an existing strand lead. All cable will be double lashed and properly secured and tagged at each pole attachment. Refer to drawing/KMZ for total footage required.

AE04 – Place New 6.6M Strand and Lash New 288F Cable:

All labor and materials required to place new strand, pull new 288F cable, and double-lash the new 288F cable to the new strand.

AE05 – Place New 6.6M Overhead Guy:

All labor and materials required to place a 6.6M overhead guy

UG01 – Proof Existing Conduit Place Pull Line:

All labor and materials required to prove the integrity of an existing conduit pathway between vault locations and placement of a pull line for use in fiber installation.

UG02 – Pull Fiber Cable in Existing Conduit:

All labor and materials required to pull new fiber cables as specified in one (1) linear foot of existing conduit. This unit also includes fiber tag placement, all cable management and storage at utility vault locations

5. General Description of Work

The underground work to be performed as part of this scope of work may consist of machine trenching; directional boring; HDPE, PVC and steel conduit installation; inner-duct and cable pulling; and vault installations to accommodate cable placement. Aerial installations may include some make-ready work, tree trimming, attachment hardware installation, placement of guys and anchors, strand placement, installation of splice cases, fiber storage loops and aerial fiber installation. Fiber optic cable splicing, terminating and testing, including on-reel testing, are **not** included as part of this scope of work.

All work will be performed according to standard telecommunications installation practices as well as the cable manufacturer’s installation specifications. The contractor shall adhere to all governing agency specifications, codes, and regulations.

6. Existing Site Conditions

The Contractor shall be satisfied with the work and soil and site conditions before submitting a bid. Any special handling, back pulling, restoration and all other special conditions shall be included in the Contractor's bid.

The Contractor shall provide the labor, supervision, materials, tools, machinery, services, incidental materials, supplies, insurance, bonds, and licenses necessary to install the cabling system as described herein. All work shall be performed as described herein and in strict accordance with all applicable Federal, State, County, and City Regulations.

7. Protection of Existing Utilities

The Contractor shall locate or verify the locating of underground facilities of third parties in the cable route area and/or contact the responsible third party for those locations. Utility companies are to be notified a minimum of two (2) business days prior to any work being performed. The Contractor shall be responsible for hand digging out any pipeline, drainage tile, cable, or any other buried facility prior to performing any mechanical excavations in the area. The Contractor shall take every precaution to avoid damage to all existing facilities. The Contractor shall be responsible to repair and pay for any damage that may occur due to excavations of existing utilities.

8. Record Drawings

Walk through inspection with Q-Life Representative will be required upon project completion. Project shall not be considered complete until deficient items identified (if applicable) on final walk through inspection list have been corrected. Upon notification of completion of the work and acceptance by Q-Life, the contractor shall provide to the Q-Life Project Manager a set of neat and accurate "As-Built" drawings within 10 business days of completion of the project.

As-Built data shall be updated and maintained daily on field copy drawings for the duration of construction. Upon completion of the project, the as-built data shall be transferred to a clean set of construction drawings for submittal to the Q-Life Project Manager.

The As-Built data shall be detailed on the drawings in either colored ink or colored pencil according to the following color codes:

RED: Work placed according to design and changes to the design
GREEN: Work not placed according to the design; omit from design
BLUE: Existing utilities facilities, Comments and Notes

- Work performed according to the design shall be highlighted or traced in RED. Work performed according to approved changes or variations to the design shall be neatly drawn and detailed on the drawings showing how the changes were constructed in the field.
- Work that was designed but not performed as shown on the drawings shall be highlighted or traced in GREEN to show that the work function was not constructed as designed.
- Existing facilities or utilities encountered; construction notes; additional construction related information identified in the field shall be neatly drawn and detailed in BLUE.

Colored highlighter pens according to the color codes as detailed above are acceptable. Fluorescent yellow highlighter pens are not an acceptable form of as-built coloring.

As-Built drawings shall contain the following data at a minimum for each of the following work functions:

Aerial Segments

- Point of attachment height from the ground to the cable and/or strand on all poles.
- Cable footage (sequential) markings at all cable ends; start and end of slack storage and conduit entrance / exit points.
- Location of all slack storage and cable splice points.
- Anchor and down guy size placed and lead length between the anchor and the pole.

Underground Segments

- Depth of conduit measured every 25 feet and at every change in direction along the conduit alignment.
- Offset distance measured every 25 feet and at every change in direction from the alignment to a curb, edge of pavement or other physical reference object.
- Location and depth of vaults, hand holes and junction boxes placed.
- Depth, type and direction of any existing utility encountered crossing the conduit route.
- Location of magnetic locating targets placed.
- Cable footage (sequential) markings at all cable ends, start and end of slack storage, conduit entrance / exit points.
- Actual quantity of cable slack storage left in vault locations.
- Actual wall to wall measurements of conduit segments between vaults.

Directional Boring

- Depth of conduit measured every 10 feet with a running line offset distance from a curb, edge of pavement or other physical reference object.
- Bore plan and profile drawing reflecting the depth and running line offset measurement every 10 feet throughout the entire length of the bore.

As-Built drawings shall have the words "As-Built" with the name of the contractor and the date stamped on every sheet in the drawing package.

Any changes or deviations from the construction drawings must be approved by the Q-Life Project Manager prior to making any of the said changes or deviations.

9. Contractor Furnished Materials

The Contractor shall provide all material, unless otherwise noted below and contractually agreed to for this project. All material shall be new and free from defects. Refer to construction drawings for quantities. Materials with a manufacturer and part number must be supplied as noted unless otherwise specified. All other materials need not be from the designated manufacturer but must be of equal or better quality. Contractor to provide specifications for alternate materials proposed as a submittal.

The following is a partial list of materials the Contractor will be expected to provide:

9.1 Aerial Hardware

All aerial attachment hardware shall be ordered according to the strand size and cable required for each segment. Refer to construction drawings for quantities. Below is a list of the major attachment hardware needed:

- 6.6 M strand
- 0.045-in. Stainless Steel Lashing Wire
- Aerial Line Hardware (bolts, nuts, washers, eyes, spacers, clamps, lags, hooks, dead ends, etc.)
- ¾" – Triple Eye Screw / Plate / Rock Anchor
- Strand Mounted Cable Storage Systems (snow shoes) – size specific to the cable bend radius.
- Strand Insulators
- Guy Guards – 6 foot (yellow)
- Cable Tree Guards
- No. 6 solid bare copper wire with associated bonding clamps
- Riser Stand-Off Brackets

9.2 Miscellaneous Materials

- Asphalt, Concrete, Clean Backfill, Stone, etc. as needed
- All Restoration Materials
- All other miscellaneous materials, not shown above, required providing a complete system

10. Q-Life Provided Materials

Q-Life will provide the following materials for installation by the Contractor:

- Cable identification tags with logo and contact information
- Reflective indoor / outdoor identification stickers (orange w/ black lettering)
- Single Mode 288F Cable

11. Construction Methods and Work Descriptions

11.1 General Construction Guidelines

This specification covers the installation of aerial and underground fiber optic cable and the splicing and terminating of such. Vaults will be installed for use as pull boxes and/or splice boxes, at intervals or locations specified. This specification also includes building entrance work.

The Contractor shall install the cable according to standard telecommunication installation procedures and WEC joint use specifications as identified in the joint use permit and detailed in the construction drawings. Aerial installations will include make-ready work, tree trimming, strand placement and cable placement using lashing, placement of aerial cable storage systems, placement of anchors and guys, and all other work necessary to provide a complete installed system.

The underground conduit shall be placed in the rights-of-way, roadways, and private properties as shown on the construction drawings. The Contractor shall place the designated size and number of conduits the length of the underground routes. Inner duct and/or fiber cable will then be placed in the conduit by pulling or blowing methods. Locate wire to be installed in all conduit segments.

All vaults and hand holes shall be permanently sealed where conduits enter and at all locations where debris can enter. All conduits are to be plugged utilizing blank duct plugs and simplex duct plugs at all vaults and riser locations. Foam sealants shall not be a substitute for these above-mentioned plugs.

The underground methods used may include trenching, rock sawing, boring, directional boring, hand digging, or other. The Contractor shall install cable route warning signs along underground cable routes as designated in the drawings and notes.

The Contractor shall be held responsible, in all cases, to return the areas of construction to original or better condition. Restoration of the work areas shall be done on a daily basis. Q-Life or its appointed representative reserves the right to stop the Contractor's work until restoration of affected areas has passed inspection.

Refer to the construction drawings for additional general guidelines that the Contractor will be expected to comply with.

11.2 Pre-Installation / On-Reel Cable Testing

The Contractor may employ the use of an optical time domain reflectometer (OTDR) to verify that the cable has not been damaged during shipment. The Contractor bears full responsibility for assuring that the fiber system operates within specification at the completion of the project.

If the Contractor elects to pre-test the cable prior to installation, costs associated for pre-installation, on-reel testing shall be included in the installation pricing.

Cable fiber testing will be done at the cable yard prior to the Contractor loading the cable for delivery to the jobsite. The Contractor shall supply all tools, test equipment, consumables, and incidentals necessary to perform quality testing.

Each fiber shall be tested with an OTDR and shall be checked for continuity, length, anomalies, and approximate attenuation. Each measurement shall be recorded with color, location, and type of fiber measured. The cable ends shall be sealed after testing.

11.3 Aerial Fiber Installation

The Contractor shall install all aerial fiber cable according to the manufacturer's Installation procedures, industry standard acceptable practices, and the Pole Owner construction standards and specifications for joint pole attachments. The contractor must also conform to the requirements and specifications of the current edition of the National Electrical Safety Code (NESC) as well as the rules and regulations of the Occupational and Safety Health Act (OSHA).

The Contractor must use the appropriate installation equipment including pulling machines, bull wheels, travelers, sheaves, chain hoists, dynamometers, and pulling grips for the size of the cable to be installed and must adhere to the requirements of the manufacturer with respect to maximum pulling tensions and static and dynamic bend radii.

All anchors are to be installed prior to strand installation. Strand, overhead guys, and down guys are to be installed and properly tensioned prior to cable installation. All fiber will be installed under tension to avoid possible contact or clearance issues with road crossings, structures, and the ground. All cable and strand blocks, rollers, guides and stringing equipment shall be installed to prevent contact with or damage to existing power and communications facilities. Under no circumstances shall any equipment be attached to or supported from existing power or communications facilities that are not designed to support such attachment or loading.

All strand and cable segments are to be properly sagged and tensioned upon completion of the installation to match existing conditions. In locations where there are multiple existing communications and power facilities, the cable is to be sagged and tensioned to match the existing sag of facilities and maintain mid-span clearances.

Portions of the project may also involve installation on rear lot public utility easements and will require the contractor to coordinate access with the property owners or tenants for construction. The contractor shall provide at least 24 hours' notice to each property owner prior to construction.

The Contractor may be responsible for performing relocation make-ready work of existing communication joint-use facilities. Some communication joint-use facilities and electrical facilities will be relocated as required by their respective crews in advance of the construction.

11.4 Trenching

The Contractor shall be familiar with general guidelines covering the construction of buried and underground communications conduit and cable. The equipment and construction methods used by the Contractor shall be such as to cause minimum displacement of the soil.

Where required, the Contractor shall open a trench, either by hand or by machine, in which to place the ducts, ground wire, and warning tape. The depth of the trench shall be the specified minimum cover from ground level to the top of the conduit. The trench shall be as straight as practical. The bottom of the trench shall be smooth and free from any sharp edges. The trench shall be kept clear of debris and loose rock. All changes in trench grade shall be gradual. Any open trench shall be fenced or steel plated in travel areas and during all non-working hours. Good judgment and care must be exercised to prevent the public or construction personnel from falling into open trenches at all times.

Driveways, lanes, or roadways, which are open cut, shall be opened just prior to duct placement. In no case shall the driveway, lane, or roadway be left impassable at the end of the day. The Contractor shall cut and restore asphalt or concrete where required. The cut shall be made with the use of a concrete saw or similar. The cut shall be a T-Cut, at a minimum, 12" wider on either side than the trench below. All asphalt/concrete cut and removed shall be disposed of and new asphalt/concrete shall be used to restore the area. The new asphalt/concrete shall match the existing asphalt/concrete in depth (4" min), type, appearance, wear surface and durability to the maximum extent practicable.

After placing the conduit in the trench, the trench areas that are designated to be filled with clean backfill will be filled using lifts of 12 inches with each layer being compacted to the density specified below (or as specified by the jurisdictional permit agency, if stricter):

- Improved areas such as street and sidewalks shall be compacted to at least 90% of maximum dry density to within 3 feet of sub-grade. The last 3 feet shall be compacted to at least 95% of maximum density.
- Unimproved area or landscape areas shall be compacted to at least 90% of maximum dry density.

This process shall be repeated until the trench is filled to the ground line. A warning tape shall be installed 18 inches below ground surface. The backfill will consist of the earth removed from the trench, unless this material is too rocky, or otherwise unsuitable. The surface restoration of the trench line shall be restored as specified in the trench details in the construction drawings.

For trench areas that are designated for reduced depth and conduit protection, the trench is to be filled with Controlled Density flowable concrete backfill meeting the specification of the jurisdictional permit agency to the depths as specified in the trench details in the construction drawings.

Where the conduits are buried near the edge of pavements, the Contractor shall take particular care to avoid damaging the pavement. If such damage does occur, repairs shall be

made immediately to meet the complete satisfaction of state and/or local authorities having jurisdiction over the pavement. Damage to banks, ditches, driveways, and roads caused by trenching operations shall be immediately repaired to the satisfaction of the inspector and the agency having jurisdiction over highway and road rights-of-way.

The work shall include, but is not limited to, excavating a trench to provide the specified minimum cover over the conduit by whatever means required (i.e., machine trench, backhoe, hand, etc.), placing the conduit in the trench, backfilling, placing warning tape and/or marking balls, compacting, traffic control, and all other operations necessary to restore the area to original or better condition. The work also includes shoring, bracing, dewatering, and placing of select backfill as necessary. The contractor will need to be familiar with the jurisdictional permit agency requirements for hard surface restoration procedures and specifications and must include this knowledge and pricing within the bid proposal.

Refer to the construction drawing guidelines for additional trenching requirements.

11.5 Directional Boring

Where required on the construction drawings, the conduits shall be installed by directional boring methods. Contractor may also elect to install conduit by directional boring method in areas that are not specified as bore. All work performed on public right-of-way or private property shall be done in accordance with requirements and regulations of the jurisdictional permit agency. In no case shall the boring be less than 48 inches from the surface of the ground or greater than 96 inches (unless otherwise specified or approved by Owner in areas that require clearance of existing utilities and substructures).

The directional boring unit includes but is not limited to the functions of boring or pushing to place conduits as specified. This work also includes the excavation, backfilling and compaction of pits, grouting of bore holes and placement of protective barricading and all other operations required to place conduit in this manner. All drilling mud and materials shall be recycled on site or disposed of according to state and local requirements at approved recycling facilities. Directional bore segments where drill casings require HDPE innerduct to be installed to include staging, pulling, proving, organizing and plugging inner-ducts to prevent intrusion of water, soil and contaminants. This work also includes the placing of warning markers in areas directly along the bore path and restoration of all disturbed areas to original condition or better.

11.6 Vaults and Hand Holes

Vaults shall be installed to be used as pull points, transition points, slack storage, and splice points. The type and location of the vaults and hand holes are shown in the construction drawings, and the specifications are detailed in the notes section of the drawings.

Excavation to the correct depth for the vaults to be installed may be carried out by mechanical excavator or by hand. The floor of the completed excavation must be made level and compacted. The compacted excavation shall then receive a compacted layer of 6 inches of crushed rock. The top of the installed vault will be flush to grade or buried as specified.

Backfilling shall commence after the vault is placed and leveled. Backfilling shall consist of placing backfill along the outside of the vault in 8-inch layers, thoroughly tamping each layer until ground level is reached.

The work shall include, but is not limited to, potholing to verify the suitability of the location for placement, digging to the required depth and dimension to allow 12" minimum clearance on all sides of the vault and the delivery, setting, and placement of the vault. The installation of ground rods, ground wire, locate terminal route markers and installation of the locate and ground wires are included in this unit. Backfilling, compaction, and restoration are also included in this unit.

11.7 Building Access

All work shall be done in a "neat and workman" like manner, in conformity with local, state and federal building codes. All work must comply with applicable data system standards and National Electric Code standard specifications. Standards include, but are not limited to, EIA/TIA 568-B commercial building wiring standards and EIA/TIA 569-A commercial building standard for telecommunications pathways and spaces.

References:

EIA/TIA Commercial Building Wiring Standard, 606 And All Recognized TSBS.

National Electric Code

Underwriter's Laboratories (UL): Applicable Listings and Ratings

- All conduits placed on private property are to be SCHD 40 PVC or SDR11 HDPE conduit if placed outside the building and riser rated flex conduit if placed within the building. Riser conduit or exposed conduit on the exterior of building is to be GRC conduit unless otherwise specified.
- All conduits are to be equipped with inner duct as specified.
- 90-deg. bends are to be "sweep" bends, 3' radius or larger, unless otherwise specified.
- Conduit pathways within building interiors shall be supported with appropriate hardware specific to the existing material or structure.
- All exterior wall penetrations are to be resealed per building and fire code.
- All interior wall penetrations are to comply with pertinent building and fire codes and are to be constructed in such a manner as to insure the integrity of the penetrated wall.
- All pull boxes are to be NEMA Type 3R or equivalent.
- The Contractor shall route the conduit and cable into buildings per State and Local building codes. Refer to the construction drawings and notes for building entry details.
- Notify the "building contact" person a minimum of 48 hours prior to commencing any work on the premises.

11.8 Splicing, Termination and Testing

Contractor shall use SC connectors with an APC polish. The loss value of any pigtail connector and any associated fiber jumper or pigtail with matching mode field diameters will not exceed 0.5dB at 1550 nm. The loss value of a connector and its associated jumper with mismatched mode field diameters should not exceed 0.8 dB.

The Contractor shall perform fusion splicing at locations specified in the Construction Drawings. If applicable, splice locations that have working customers at backbone locations, work in splice cases with live traffic may be spliced between the hours of 12:00 AM and 6:00 AM PST on weekends (Saturday & Sunday) only. Q-Life Customers require a minimum of 30 calendar days' notice to schedule maintenance windows. If applicable, maintenance windows will be defined, coordinated and scheduled by Q-Life according to Contractor provided schedule request. All splicing and terminations on dark fiber and new fiber locations that do not pose risk to customers and live traffic can be performed during regular business hours.

The Contractor's fusion splicing equipment shall be cleaned, calibrated and adjusted to the fiber and environmental conditions at the start of the job and shall be checked daily and re-adjusted if necessary. Splicing includes picking up and hauling materials to the jobsite, opening the cable, splicing the fibers using the fusion splicing technique, placing a heat shrink on the bare fiber splice, loading the spliced fibers in a splice tray, and placing the splice tray in the closure as directed, encapsulating or sealing the splice, closing the closure.

Upon completing each individual fiber splice, the Contractor shall perform a lid test on the splice to determine loss. Any splice not meeting the test criteria of 0.1 dB shall be re-spliced. The Contractor shall clean up and dispose of excess material. The cost associated with testing the cable shall be included in the splicing and termination lump sum bid items.

Terminations include picking up and hauling materials to the jobsite, installation of rack mounted fiber optic distribution panels (FDP's) and routing the cable(s) to the rack and FDP for termination. Some projects may specify pre-terminated cable stubs; therefore, no pigtailed and splice trays will be required at the termination panel. The contractor shall be responsible for installing the bulkheads and connecting the pre-terminated SC connectors from the cable stubs into the panel. All fiber ports shall be labeled as to fiber assignment, cable and direction. In the event that termination is required, scope of work would include installing splice trays; opening the cable sheath; splicing the individual fibers to pigtailed; placing a heat shrink on the splice; loading the fibers in a splice tray; placing the tray in the fiber optic distribution panel; assembly of the termination panel; and routing to and terminating the pigtailed at the bulkhead. All excess cable shall be neatly coiled, secured and stored in each facility. The Contractor shall clean up and dispose of excess material. The cost associated with testing the cable shall be included in the splicing and termination bid items.

11.9 Post Installation Testing

Fusion splicing is required for all permanent splices on the project. The maximum allowable splice loss for any splice is 0.10 dB, as measured bi-directionally with an OTDR at 1310 nm and 1550 nm. The average splice loss for the segment shall not exceed 0.05 dB. Set the fusion splice machine for standard single mode fiber.

The Contractor shall supply to Q-Life the Optical Time Domain Reflectometer (OTDR) traces of individual optical fiber signatures. An access jumper shall be used which shall allow viewing of the entire length of the cable, including the launch end.

Optical attenuation shall be measured, using a stable laser light source and optical power meter, on the terminated fibers in both directions of transmission using the Insertion Loss method and shall include the pigtails and couplings installed at the system endpoints. To ensure that an accurate measurement of connector losses is made, jumpers shall be used at both transmit and receive ends.

The cable shall also be tested to assure that no fibers have been transposed along the route. Transmit light (using a stabilized light source) in each fiber at one end of the route segment, and verify that light is received from the same fiber at the other end of the route segment using a power meter. Record continuity results and the light power loss between the light source and power meter for each fiber. Repair any transposed fibers that are found.

The Splicing Contractor shall test each fiber independently. Any cable found not to meet the acceptable test criteria due to the installation methods used shall be replaced at the Installation Contractor's cost. The Splicing Contractor shall supply all equipment and personnel necessary to conduct the tests. All test equipment shall be in good working order and shall have been calibrated prior to the tests being held.

The Contractor shall document all test results and provide those results to Q-Life. The documentation shall include the name of the person performing the tests, the date and time the test was performed, the cable being tested, the equipment used, the procedures followed, and the results obtained. Provide OTDR traces with event tables identifying each splice point and splice loss for each splice in Excel format with each enclosure location, fiber, and the direction the OTDR is looking accurately identified. Contractor shall provide the documentation of OTDR traces with event tables on a CD / DVD / USB Drive.

11.10 Locate Wire Terminals – T3 (Vault Interior)

T-3 Locate Wire Terminals will be installed at all vault locations that are located in hard surfaces such as streets and/or sidewalks. The terminals are Locate Wire Terminal enclosures made of polycarbonate and are mounted on an accessory angle bracket on the interior riser of a concrete vault lid or interior wall of a fiberglass / composite vault wall. The accessory angle bracket will be secured with screws, anchors or epoxy fasteners specific to the vault wall or riser. The terminal then mounts to the accessory bracket.

The Locate Wire Terminal will have a minimum of 5 Rapid Connect Binding Posts installed with Bonding Straps for each terminal. The binding posts are designed to mount in the terminal plate with a threaded stud on one side and compression set-screw wire termination on the other side. The locate wires and ground wires will terminate on the set-screw side of the plate with the stud side of the plate will having bonding straps and hex nuts to facilitate attachment of the Cable Locating Equipment and isolation of locate wire segments.

11.11 Vault Grounding & Locate Wire Terminations

All new vault locations as shown on the drawings will require the installation of a 5/8" x 5' copper clad ground rod in/or through the bottom of the vault, using caution so as not to damage existing substructure. A 6 AWG HDPE 30 MIL Copper Solid Ground Wire will be

bonded to the ground rod with a ground rod clamp. The 6 AWG copper wires will be extended neatly from the ground rod to the T-3 Locate Wire Terminal on the interior of the vault and will terminate on the designated ground lug. At each of the vault locations, the new 12 AWG locate wire will be extended to the terminals and secured. The 12 AWG Locate wire will terminate on the T-3 Locate Wire Terminal on the interior of the vault on the designated lug, corresponding with the direction the locate wire departs from the vault.

11.12 Pole Riser Grounding

At conduit locations where the underground transitions to aerial, the 12 AWG locate wire will be placed extending up the pole within the riser conduit to the top. At pole locations where a vertical ground exists on the pole, the 12 AWG locate wire will be bonded to the existing 6 AWG copper ground wire with a vice-type compression ground connector. At pole locations where a vertical ground does not exist, a vertical # 6 AWG Solid vertical ground will be placed by the Pole Owner on the pole and the 12 AWG locate wire will be bonded to the new vertical # 6 AWG ground with a vice-type compression ground connector.

11.13 Building Interior Grounding

At building entry locations where the locate wire enters the building, a ground point will need to be established for bonding the locate wire. Extend the locate wire from the building entry location to the nearest suitable ground in the area of the building entry. Follow Local building and electrical codes for acceptable ground connection points.

11.14 Permits

Q-Life will provide all necessary Joint Use permits for the project with the exception of building permits for interior raceway and cable installation (as-required) and Traffic Control or Pedestrian Access permits (as-required by The City of The Dalles, OR). The Contractor will be required to identify, obtain and pay for any building permits required. The successful Contractor shall be provided with copies of all applicable City, County, and State permits prior to the start of construction and will be required to maintain a copy on site at all times.

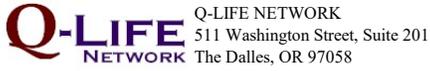
11.15 Schedule

The schedule for completion of this project shall be 60 calendar days from written Notice to Proceed (NTP). Upon notice to proceed, the Contractor must mobilize and dedicate crews and staff of sufficient size to meet completion date.

PART 4 – UNIT PRICING **ELECTRONIC FORM**

**See attached for sample – use electronic version (Excel Format) to complete bid. Please final your bid and then print, sign and submit the Unit Pricing Form with your proposal and transfer the final total cost to the Proposal Form as well.

UNIT PRICING FORM
Q-LIFE NETWORK - DRY HOLLOW CABINET EXTENSION



Company: _____

Signature: _____

Date: _____

Instructions to Bidders:

1. Please refer to Project Description & Scope of Work in the Request for Bids (RFB)
2. Please refer to Construction Drawings and Unit Descriptions in the RFB for details
3. Please fill in the Labor & Materials section in each Unit Cost Item below
4. Form includes formulas that automatically combine the Labor & Materials and extend the totals for each unit
5. Prices for each bid item shall include all necessary labor, equipment and materials necessary to complete each line item

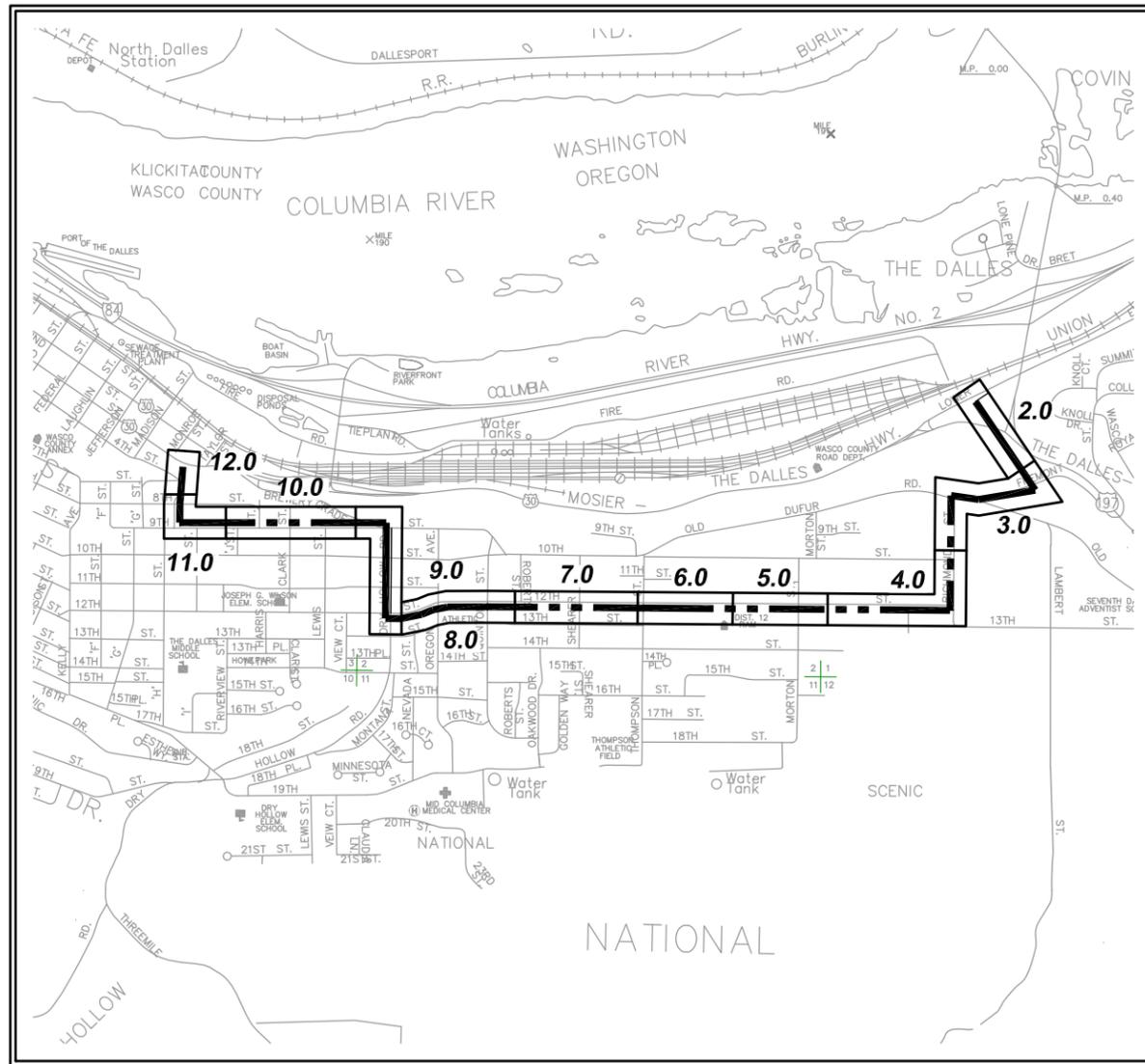
<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Qty</u>	<u>Labor</u>	<u>Materials</u>	<u>L & M</u>	<u>Total</u>
AE01	Place 3/4" Anchor & 6.6M Down Guy w/ Insulator	EA	3			\$ -	\$ -
AE02	Place 6.6M Down Guy w/ Insulator	EA	7			\$ -	\$ -
AE03	Over-Lash New Fiber Cable on Existing Strand	FT	1617			\$ -	\$ -
AE04	Place New 6.6M Strand and Lash New 288F Cable	FT	12488			\$ -	\$ -
AE05	Place New 6.6M Overhead Guy	EA	3			\$ -	\$ -
UG01	Proof Existing Conduit Place Pull Line:	FT	159			\$ -	\$ -
UG02	Pull Fiber Cable in Existing Conduit	FT	159			\$ -	\$ -

Project Grand Total: \$ -

PART 5 – DRAWINGS

DRY HOLLOW CABINET EXTENSION

CITY OF THE DALLES, WASCO COUNTY, OREGON
 TOWNSHIP 01 NORTH , RANGE 13 EAST, SECTION(S) 01, 02, 03
 October 2021



VICINITY MAP
 SCALE: NTS

SHEET INDEX

SHEET NAME	DESCRIPTION
1.0	COVER SHEET - VICINITY MAP
1.1	JOB SCOPE - MATERIAL TAKE-OFF
1.2	LEGEND
1.3	GENERAL NOTES
1.4	GENERAL NOTES
1.5	GENERAL NOTES
1.6	VAULT DETAILS
1.7	RISER DETAILS / LOCATE WIRE AND BONDING DETAILS
1.8	LOCK BOX ENCLOSURE DETAILS / BUILDING ENTRANCE DETAILS
2.0	AERIAL PLAN: HWY 30
3.0	AERIAL PLAN: FREEMONT STREET, RICHMOND ROAD
4.0	AERIAL PLAN: SE 12TH STREET
5.0	AERIAL PLAN: SE 12TH STREET
6.0	AERIAL PLAN: SE 12TH STREET
7.0	AERIAL PLAN: SE 12TH STREET
8.0	AERIAL PLAN: SE 12TH STREET
9.0	AERIAL PLAN: DRY HOLLOW ROAD
10.0	AERIAL PLAN: SE 9TH STREET, CLARK STREET
11.0	AERIAL PLAN: SE 9TH STREET, H STREET
12.0	AERIAL PLAN: H STREET, 3RD STREET
MCP.1	MASTER CABLE PLAN

OWNER / APPLICANT

OWNER: Q-LIFE NETWORKS
 ADDRESS: 313 COURT STREET
 CITY, STATE ZIP: THE DALLES, OREGON 97058

CONTACT: MATTHEW KLEBES
 CELL: 541-993-7952
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DESIGN CONSULTANTS

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Know what's below.
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ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).

Plot Date: 20 Oct 2021, 1:09pm By User: jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-CS00.DWG Layout (If Any): CS01_1.0

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DESIGNED BY: A MANRIQUEZ	FIELD BY: A MANRIQUEZ			
CHECKED BY: D McNEELY	DRAWN BY: J ISAAK			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

313 COURT STREET THE DALLES, OR 97058

DRY HOLLOW CABINET EXTENSION

COVER SHEET - VICINITY MAP

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03		COUNTY: WASCO CO., OREGON	
PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-CS00.DWG - CS01_1.0	SHEET 1.0

CONSTRUCTION SET

JOB SCOPE

CITY OF THE DALLES, OREGON
WASCO COUNTY

TOWNSHIP 1N – RANGE 13E – SECTIONS 1, 2, 3

PROJECT SUMMARY:

THIS PROJECT WILL PROVIDE BACKBONE INFRASTRUCTURE EXPANSION OF THE Q-LIFE FIBER OPTIC NETWORK IN THE DALLES, OREGON AREA. THIS NEW FIBER OPTIC CABLE BACKBONE ROUTE WILL FACILITATE EXPANDED BROADBAND CONNECTIVITY FOR NEW COMMERCIAL AND ENTERPRISE CUSTOMERS ALONG WITH TRANSPORT FOR SEVERAL MOBILE WIRELESS SERVICE PROVIDERS. THIS PROJECT CONNECT TWO NETWORK SEGMENTS INTO A CABINET LOCATION. THE FOLLOWING IS THE SCOPE OF WORK AND SUMMARY FOR THIS SPECIFIC SEGMENT DESIGN PACKAGE.

SCOPE OF WORK:

THIS PROJECT WILL BEGIN AT AN EXISTING AERIAL SPLICE AT STATE ROAD, NEAR HIGHWAY 30 (I-84), PROCEEDING SOUTHEASTERLY APPROX. 1,200 FEET VIA OVER-LASHING ON AN EXISTING FIBER OPTIC SEGMENT GOING UP A HILL TO NWCPUD POLE #130124200 ON THE SOUTH SIDE OF FREMONT STREET, A NEW 6.6M STRAND AND 288F CABLE WILL TURN WEST AND CROSS OLD DUFUR ROAD TO NWCPUD POLE #130114210, TURN SOUTH ON RICHMOND ROAD FOR APPROX. 1,300 FEET ALONG THE WEST SIDE OF THE ROAD TO SE 12TH STREET, TURN SOUTH ON RICHMOND ROAD FOR APPROX. 6,400 FEET ALONG THE SOUTH SIDE OF 12TH STREET AT NWCPUD POLE # 130114080. FROM HERE, THE NEW 6.6M STRAND AND 288F CABLE WILL CONTINUE WEST FOR APPROX. 6,400 FEET TO NWCPUD POLE #13023061 WHERE IT WILL TURN NORTH AND CONTINUE ALONG AN EXISTING Q-LIFE STRAND AND FIBER PATHWAY TO NWCPUD POLE #1302080 WHERE A NEW 6.6M STRAND AND 288F CABLE WILL CONTINUE FOR APPROX. 850 FEET TO SE 9TH STREET, TURN WEST AND CONTINUE ALONG 9TH STREET FOR APPROX. 2,300 FEET TO NWCPUD POLE #13022160 LOCATED AT H STREET AND CONTINUE NORTH FOR APPROX. 546 FEET TO NWCPUD POLE #130322221 WHERE THE NEW 6.6M STRAND WILL BE PERMANENTLY DEAD-ENDED TO EXISTING Q-LIFE ATTACHMENTS. THE NEW 288F CABLE WILL CONTINUE VIA OVER-LASHING FOR ONE SPAN TO EXISTING RISER POLE NWCPUD POLE #130333220 WHERE THE CABLE WILL BE PULLED THROUGH THE EXISTING Q-LIFE RISER AND UNDERGROUND CONDUIT TO AN EXISTING Q-LIFE UTILITY VAULT WHERE SLACK WILL BE LEFT FOR SPLICING AND TERMINATION (SPLICING AND TERMINATION TO BE COMPLETED UNDER A SEPARATE SCOPE.

SLACK IN THE NEW 288F CABLE WILL BE STORED ALONG THE ROUTE IN STRATEGIC LOCATIONS, OVER-HEAD GUYS, DOWN GUYS AND ANCHORS WILL BE PLACED ALONG THE ROUTE AS DETAILED IN THE CONSTRUCTION DRAWING

CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CITY, COUNTY, STATE AND PRIVATE AGENCY RIGHT OF WAY AND POLE ATTACHMENT PERMIT REQUIREMENTS INCLUDING TRAFFIC CONTROL, WORK HOUR RESTRICTIONS, NOTIFICATIONS AND RESTORATION. CABLE REEL LOCATIONS ALONG WITH SLACK STORAGE IN THE FIBER CABLE WILL BE PLACED AT AERIAL STORAGE AND VAULT LOCATIONS AS DESIGNATED IN THE CONSTRUCTION DRAWINGS AND FIBER OWNERSHIP TAGS WILL BE PLACED ON THE CABLE AT EVERY POLE AND EVERY VAULT LOCATION. THE CONTRACTOR WILL PLUG ALL VACATED HOLES FROM ABANDONED OR RELOCATED ATTACHMENTS PER POLE OWNER SPECIFICATIONS. CONTRACTOR WILL TEST AND VERIFY THE EXISTING CONDUIT PRIOR TO INSTALLATION OF THE NEW FIBER OPTIC CABLE AND LOCATE WIRE. CONTRACTOR WILL CLEAN AND TAG FIBER COILS; PREP FIBER FOR SPLICE; PLACE LOCATE WIRE, TEST STATIONS, GROUND RODS, AND GROUND WIRE AS REQUIRED AND DETAILED IN THE CONSTRUCTION DRAWINGS; AND REPLACE ANY MISSING LOCATE WIRE WITHIN THE EXISTING CONDUIT PATHWAYS.

PERMIT SUMMARY

NWCPUD: 1
ODOT: 1

MATERIAL & INSTALLATION SUMMARY

DESCRIPTION **UOM** **TOTALS**

MATERIAL TAKE OFF:

AERIAL QUANTITY:

6.6M STRAND/MESSENGER: FT 11,819
3/4" SCREW ANCHOR: EA 3
6.6M DOWNGUY: EA 7
S/W GUY ASSEMBLY: EA 4
AERIAL SLACK STORAGE BRACKET: (SNOW SHOE QTY. 2) EA 10

FIBER QUANTITY:

288 CT FIBER OPTIC CABLE: FT 14,291
288 CT FIBER OPTIC CABLE SLACK: FT 2,200

INSTALLATION TAKE OFF:

AERIAL QUANTITY:

PLACE NEW 6.6M STRAND/MESSENGER: FT 11,819
PLACE NEW 3/4" SCREW ANCHOR: EA .
PLACE NEW 6.6M DOWNGUY: EA 7
PLACE NEW S/W GUY ASSEMBLY: EA 4
PLACE NEW AERIAL SLACK STORAGE BRACKET: (SNOW SHOE QTY. 2) EA 10
REMOVE EXISTING ANCHOR: EA 2
REMOVE EXISTING DOWN GUY: EA 2

FIBER QUANTITY:

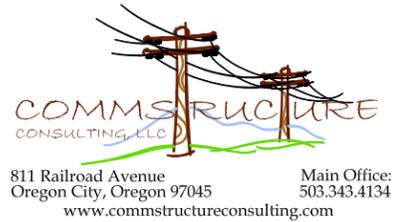
OVERLASH NEW 288 CT FIBER OPTIC CABLE TO EXISTING STRAND: FT 1,843
LASH NEW 288 CT FIBER OPTIC CABLE TO NEW STRAND: FT 12,448

TOTAL POLES:

EA 83

***** NOTE:**
FOOTAGES SHOWN ARE MEASURED IN LINEAR FEET. TO ACCOMMODATE FOR SAG DISTANCE FROM POLE TO POLE, ADD 2% TO TOTAL CABLE & STRAND.

Plot Date: 20 Oct 2021, 1:09pm By User: jamesisaak
Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-CS00.DWG Layout (If Any): CS02_1.1



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CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.



313 COURT STREET THE DALLES, OR 97058

DRY HOLLOW CABINET EXTENSION

CITY: THE DALLES – TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG – TAB_SHEET # DRHCAB-CS00.DWG – CS02_1.1	SHEET 1.1
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SPECIFICATION SET

SURFACE FEATURES / AERIAL UTILITIES - LINETYPES & SYMBOLS

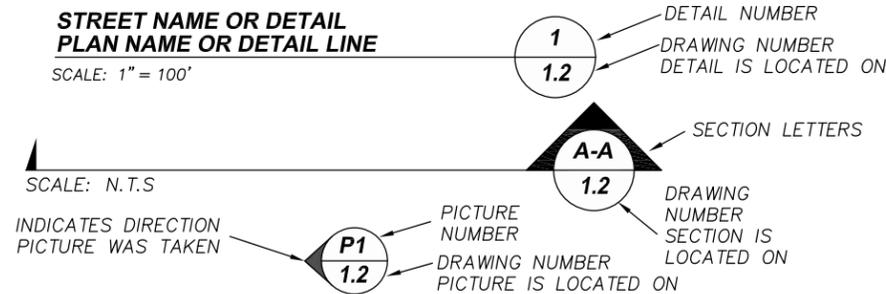
EXISTING	PROPOSED
CABLE	CABLE
STRAND	STRAND
CONDUIT	CONDUIT
PLENUM / RISER RATED FLEX CONDUIT (AS SPECIFIED)	AERIAL CONDUIT
COMMUNICATIONS (OWNERS SPECIFIED ON PLANS)	
CATV	CATV
TELEPHONE	TELEPHONE
FIBER OPTIC	FIBER OPTIC
POWER/ELECTRICAL (OWNERS SPECIFIED ON PLANS)	
PRIMARY	PRIMARY
STREET LIGHT	STREET LIGHT
TRAFFIC SIGNAL	TRAFFIC SIGNAL
OTHER UTILITIES	
GAS	GAS
SANITARY	SANITARY
STORM	STORM
WATER	WATER
TOPO FEATURES	
BACK OF WALK/SIDEWALK	BACK OF WALK/SIDEWALK
BUILDING FOOTPRINT	BUILDING FOOTPRINT
CULVERT	CULVERT
CURB	CURB
EDGE OF CONCRETE	EDGE OF CONCRETE
EDGE OF GRAVEL	EDGE OF GRAVEL
EDGE OF PAVEMENT	EDGE OF PAVEMENT
DRIVEWAY	DRIVEWAY
TOP OF BANK	TOP OF BANK
FENCE STRIPING	FENCE STRIPING
R/R TRACKS	R/R TRACKS
RIGHT-OF-WAY CENTERLINE	RIGHT-OF-WAY CENTERLINE
RIGHT-OF-WAY	RIGHT-OF-WAY
PROPERTY LINE	PROPERTY LINE
EASEMENT	EASEMENT
WALL	WALL
VEGETATION LINE	VEGETATION LINE

ABBREVIATIONS

E/O	EAST OF	E	EAST	ABN	ABANDONED	DOC	DEPTH OF COVER	ID	INNERDUCT	PWR	POWER
E/W	EQUIPPED WITH	N	NORTH	AE	AERIAL	DWY	DRIVEWAY	IE	INTERIOR ENTRY	RMV	REMOVE
N/O	NORTH OF	NE	NORTHEAST	AYA	ALLEY ARM	EA	EACH	JB	JUNCTION BOX	RPL	REPLACE
O/S	OFFSET	NW	NORTHWEST	BA	BUILDING ATTACHMENT	EXTG	EXISTING	MGN	MULTI-GROUNDED NEUTRAL	SCA	SIDE CABLE ARM
S/O	SOUTH OF	S	SOUTH	BE	BUILDING ENTRY	FB	FIELD BEND	MIN	MINIMUM	SL	STREET LIGHT
S/W	SIDEWALK	SE	SOUTHEAST	BOC	BACK OF CURB	FC	FIBERGLASS CONDUIT	MST	MULTIPOINT SMARTERMINAL	SLP	STREET LIGHT PROTECTED
W/O	WEST OF	SW	SOUTHWEST	BOW	BACK OF WALK	FDC	FIBER DUCT IN CONCRETE	NT	NO TAG	SLU	STREET LIGHT UNPROTECTED
		W	WEST	BP	BORE PIT	FGA	FIBERGLASS ARM	NV	NOT VISIBLE	TEL	TELEPHONE
				BSP	BLACK STEEL PIPE	FLR	FLOOR	OD	OUTSIDE DIAMETER	UG	UNDERGROUND
				BT	BLANK TAG	FO	FIBER OPTIC	OHG	OVERHEAD GUY	VGR	VERTICAL GROUND ROD
				CAB	CABINET	FOC	FACE OF CURB	P	POLE	W	WALL
				CATV	CABLE TELEVISION	FS	FIELD SIDE	PL	PLACE	WH	WEATHERHEAD
				C&G	CURB & GUTTER	GRC	GALVANIZED RIGID CONDUIT	PPG	POLE TO POLE GUY	WDA	WOOD ARM
				COMM	COMMUNICATIONS	HDG	HOT DIPPED GALVANIZED	PUE	PUBLIC UTILITY EASEMENT	WT	WEIGHT
				DG	DOWNGUY	HT	HEIGHT				

EXISTING		AERIAL DESIGN		PROPOSED	
MST	MST	MST	MST	MST	MST
UTILITY POLE	UTILITY POLE	UTILITY POLE	UTILITY POLE	UTILITY POLE	UTILITY POLE
COMM POLE	COMM POLE	COMM POLE	COMM POLE	COMM POLE	COMM POLE
SPLICE	SPLICE	SPLICE	SPLICE	SPLICE	SPLICE
MID-SHEATH SPLICE	MID-SHEATH SPLICE	MID-SHEATH SPLICE	MID-SHEATH SPLICE	MID-SHEATH SPLICE	MID-SHEATH SPLICE
VAULT/BUILDING STORAGE	VAULT/BUILDING STORAGE	VAULT/BUILDING STORAGE	VAULT/BUILDING STORAGE	VAULT/BUILDING STORAGE	VAULT/BUILDING STORAGE
FIBER SYMBOL	FIBER SYMBOL	FIBER SYMBOL	FIBER SYMBOL	FIBER SYMBOL	FIBER SYMBOL
FT	AERIAL STORAGE	FT	AERIAL STORAGE	FT	AERIAL STORAGE
POWER ANCHOR & GUY	POWER ANCHOR & GUY	POWER ANCHOR & GUY	DG TO EXTG POWER ANCHOR	POWER ANCHOR & GUY	DG TO EXTG POWER ANCHOR
POWER S/W ANCHOR & GUY	POWER S/W ANCHOR & GUY	POWER S/W ANCHOR & GUY	DG TO EXTG POWER S/W ANCHOR	POWER S/W ANCHOR & GUY	DG TO EXTG POWER S/W ANCHOR
COMM ANCHOR & GUY	COMM ANCHOR & GUY	COMM ANCHOR & GUY	DG TO EXTG COMM ANCHOR	COMM ANCHOR & GUY	DG TO EXTG COMM ANCHOR
COMM S/W ANCHOR & GUY	COMM S/W ANCHOR & GUY	COMM S/W ANCHOR & GUY	DG TO EXTG COMM S/W ANCHOR	COMM S/W ANCHOR & GUY	DG TO EXTG COMM S/W ANCHOR
ANCHOR & GUY	ANCHOR & GUY	ANCHOR & GUY	ANCHOR & GUY	ANCHOR & GUY	ANCHOR & GUY
S/W ANCHOR & GUY	S/W ANCHOR & GUY	S/W ANCHOR & GUY			
VGR GROUND	VGR GROUND	VGR GROUND	VGR GROUND	VGR GROUND	VGR GROUND
INTERIOR BOND	INTERIOR BOND	INTERIOR BOND	INTERIOR BOND	INTERIOR BOND	INTERIOR BOND

DETAILS AND SECTIONS CALLOUT SYMBOLOGY



EXISTING		UNDERGROUND DESIGN		PROPOSED	
CABLE MARKER					
CABLE MARKER E/W GROUND LUGS					
LOCATE TERMINAL ACCESS POINT					
GROUND ROD					
MST	MST	MST	MST	MST	MST
SIGNAL CONTROLLER					
PEDESTAL	PEDESTAL	PEDESTAL	PEDESTAL	PEDESTAL	PEDESTAL
OMNI-BALL MARKER					
POWER					
POWER TRANSFORMER					
POWER METER					
TRAFFIC					
CROSS WALK SIGNAL					
R/R CROSSING SIGNAL					
JUNCTION BOX					
TRAFFIC SIGNAL POLE					
SIGNAL CONTROLLER					
RAILROAD ARM					
SIGN	SIGN	SIGN	SIGN	SIGN	SIGN
STORM					
AREA DRAIN					
CATCH BASIN					
STORM SEWER					
WATER					
BLOW OFF					
FIRE CONNECTION					
FIRE HYDRANT					
IRRIGATION METER					
IRRIGATION VALVE					
WATER METER					
WATER VALVE					
WATER VAULT					
TOPO					
BOLLARD	BOLLARD	BOLLARD	BOLLARD	BOLLARD	BOLLARD
GAS VALVE					
GAS METER					
LUMINAIRE	LUMINAIRE	LUMINAIRE	LUMINAIRE	LUMINAIRE	LUMINAIRE
MAILBOX	MAILBOX	MAILBOX	MAILBOX	MAILBOX	MAILBOX
PROPERTY CORNER					
MONUMENT SURVEY					
PARKING METER					
CATV RISER					
STEEL PILING					
TELECOMM MANHOLE					
SANITARY SEWER					
TREE	TREE	TREE	TREE	TREE	TREE

45'/4/2019/D(T)=POLE HT/CLASS/YR/DISTRIBUTION(TRANSMISSION)
P.O.A.=_____ <-EXISTING POINT OF ATTACHMENT
P.O.A.=_____ <-PROPOSED POINT OF ATTACHMENT

STANDARD PLANS FOR CONSTRUCTION

LEGEND

CITY: CITY - TOWNSHIP RANGE SECTION(S): COUNTY: COUNTY CO., STATE
PLOT DATE: 6/07/2021 SCALE: AS SHOWN PROJECT NAME-FILENAME.DWG - TAB_SHEET # SHEET
CCLLC-DT00.DWG - LG01_1.2 1.2

DESIGNED BY: CCLLC	FIELD BY: CCLLC		
CHECKED BY: CCLLC	DRAWN BY: CCLLC		
REVISIONS			
REV	DESCRIPTION	DATE	BY

SPECIFICATION SET

SITE CONDITIONS:

THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. UTILITIES MAY EXIST IN THE AREA IN ADDITION TO THOSE SHOWN ON THE PLAN. THE CONTRACTOR SHALL CONTACT PROPERTY OWNERS WHEN WORKING WITHIN PRIVATE EASEMENTS FOR LOCATION OF UNDERGROUND TANKS, PIPELINES, DRAIN TILES, OR OTHER BURIED IMPROVEMENTS. THE CONTRACTOR SHALL ALSO NOTIFY THE UTILITY NOTIFICATION CENTER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR MUST ASSUME ALL BURIED UTILITIES ENCOUNTERED ARE LIVE AND ACTIVE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY THE OWNERS OR OPERATORS OF SAID UTILITIES. REPAIR OF ANY DAMAGED CONDUIT CONTAINING CABLE SHALL BE MADE BY USE OF PVC SPLIT DUCT OR MATCH EXISTING. DAMAGE TO SUB-SURFACE STRUCTURES IS THE SOLE RESPONSIBILITY OF THE PLACING CONTRACTOR.

THE CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC CONTROL LOOPS. IF EXISTING TRAFFIC CONTROL LOOPS ARE DAMAGED DURING CONSTRUCTION, THE ENTIRE LOOP WIRE FROM TERMINAL TO TERMINAL SHALL BE REPLACED IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND REGULATIONS AT CONTRACTOR'S EXPENSE.

REMOVAL OF EXISTING ASPHALT PAVEMENT, CONCRETE CURBS, AND CONCRETE SIDEWALKS WILL BE "NEAT LINE" WITH SAW OR PAVEMENT CUTTER, PER REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR EACH LOCATION. IF CONCRETE PAVEMENT IS ENCOUNTERED WHILE EXCAVATING CONDUIT TRENCHES, THE CONCRETE REMOVAL WILL BE "NEAT LINE" WITH A PAVEMENT SAW.

IF CONCRETE CURB RETURNS AND/OR SIDEWALKS ARE REPLACED DUE TO CONDUIT OR MANHOLE INSTALLATION, THE CONTRACTOR SHALL PLACE APPROVED HANDICAPPED SIDEWALK AND CURB ACCESS RAMPS IN CONFORMANCE WITH STATE STATUTES.

ALL MATERIALS NECESSARY FOR THE REPAIR OF STREETS, CURBS, SIDEWALKS, SANITARY SEWERS, STORM SEWERS, AND PUBLIC SERVICE UTILITIES, AND THE INSTALLATION OF SUCH MATERIALS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE AGENCY OR DEPARTMENT RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE REPAIRED FACILITY.

ALL OPEN TRENCH WILL BE CLEARLY MARKED WITH BARRICADES OR CONES. STEEL PLATES OR OTHER TYPES OF BRIDGING SHALL BE PROVIDED TO COVER OPEN TRENCH IN THE TRAVEL PORTION OF THE STREETS. THESE PLATES OR BRIDGING SHALL BE ADEQUATE TO SUPPORT THE NORMAL VEHICLE LOADS ANTICIPATED IN THIS AREA AND SHALL BE IN PLACE DURING ALL NON-WORKING AREAS.

ALL SURFACES TO BE RESTORED TO ORIGINAL CONDITION, AND BACKFILL TO BE COMPACTED AS SPECIFIED. TRENCH EXCAVATION IN SURFACES WHICH INCLUDE CONCRETE TREATED BASE SHALL FOLLOW LOCAL AREA SPECIFICATIONS.

ALL WORK SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

TEMPORARY BACKFILL:

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN NORMAL TRAFFIC MOVEMENT DURING NON-WORK PERIODS FOR ALL CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF CITY STREETS BY THE USE OF STEEL PLATES (DESIGNED FOR H-20 LOADING) OR BACKFILLING THE TRENCH. IF THE CONTRACTOR ELECTS TO BACKFILL THE TRENCH HE SHALL "CAP" THE TRENCH WITH A 2"(COMPACTED MINIMUM) DEPTH OF CLASS "C" ASPHALTIC CONCRETE COLD MIX. IF THE CONTRACTOR ELECTS TO PLATE THE TRENCH THE PLATES SHALL BE PINNED AT EACH CORNER AND THE EDGES SHALL BE "RAMPED" WITH CLASS "C" ASPHALTIC CONCRETE COLD MIX TO PREVENT "WHEEL SHOCK" ON IMPACT. COLD MIX SHALL BE COMPACTED AND SMOOTH IN EITHER TYPE OF INSTALLATION. TO PREVENT SKIDDING, TRAFFIC PLATES SHALL BE TREATED WITH WELD BEADS TO PROVIDE TRACTION. WELD BEADS SHALL BE LOCATED 4" ON CENTER AND EXTEND THROUGH THE TRAVEL PORTIONS OF THE PLATES. USE OF STEEL PLATES IN THE ROW TO BE APPROVED BY THE GOVERNING PERMIT AGENCY.

BACKFILL:

BACKFILL OF CONDUIT TRENCH OR MANHOLE EXCAVATION SHALL BE 3/4" - 0 CRUSHED ROCK PLACED IN 6" LIFTS AND COMPACTED WITH MECHANICAL VIBRATING TYPE COMPACTION EQUIPMENT TO 95% OF MAXIMUM DRY DENSITY (ASTM D-1550 OR AASHTO T-180) UNDER ALL PAVED SURFACES UNLESS OTHERWISE SPECIFIED.

BACKFILL OF CONDUIT TRENCH OR MANHOLE EXCAVATION IN NON-PAVED AREAS SHALL BE CLEAN SAND OR SILTY LOAM SOILS PLACED IN 1'-0" LIFTS COMPACTED BY MECHANICAL VIBRATING TYPE COMPACTION EQUIPMENT TO 95% OF MAXIMUM DRY DENSITY (ASTM D698 OR AASHTO T-99) UNLESS OTHERWISE SPECIFIED.

BACKFILL AROUND ALL VAULTS SHOULD CONSIST OF COMPACTED SELECT BACKFILL MATERIAL OR IN ACCORDANCE WITH AGENCY SPECIFIED BACKFILL. IN NO CASE SHALL THE MATERIAL BE SATURATED OR CONTAIN LARGE ROCKS OR CHUNKS. NO VOIDS SHALL REMAIN BETWEEN THE VAULT WALLS AND THE NATIVE SOIL. BACKFILL AROUND VAULTS SHALL NOT BE PLACED UNTIL THE ENTIRE VAULT STRUCTURE IS IN PLACE INCLUDING ALL LIDS AND RISERS, BEING SURE TO COMPACT FILL MATERIAL FROM BOTTOM TO TOP SURFACE.

SAND MAY BE WATER SETTLED IF THAT TYPE OF COMPACTION IS ALLOWED BY THE PERMITTING AGENCY IN EITHER PAVED OR NON-PAVED SITUATIONS. THE CONTRACTOR SHALL VERIFY THE TYPE OF COMPACTION ALLOWED PRIOR TO BEGINNING ANY BACKFILL ACTIVITY.

BACKFILL SHALL BE PLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND REGULATIONS OF THE JURISDICTIONAL PERMIT AGENCY.

HAZARDOUS MATERIALS:

THE CONTRACTOR SHALL NOTIFY THE JURISDICTIONAL PERMIT AGENCY IMMEDIATELY IF ANY MATERIALS ARE ENCOUNTERED THAT MAY BE CONSIDERED HAZARDOUS BY THE EPA, DEQ, OR OSHA. IF POTENTIALLY HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR SHALL SECURE THE SITE AND PREVENT ACCIDENTAL EXPOSURE TO THE PUBLIC OR THE CONTRACTOR'S PERSONNEL.

THE CONTRACTOR MAY EXCAVATE UP TO, BUT SHALL NOT DISTURB KNOWN HAZARDOUS MATERIALS SUCH AS ASBESTOS, OILS, ACID, ETC. THE REMOVAL OF ALL HAZARDOUS MATERIALS MUST BE DONE BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR AND IN ACCORDANCE WITH JURISDICTIONAL AGENCY REQUIREMENTS.

LANDSCAPING:

TREE AND PLANT PROTECTION TO CONFORM WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SECTION A300 PART 1 -10 AS APPLICABLE. ANY DEVIATION FROM INDUSTRY APPROVED TREE AND PLANT CARE TO BE CLEARED WITH THE GOVERNING PERMIT AGENCY REPRESENTATIVE AND OR ADJOINING PROPERTY OWNER PRIOR TO ANY PRUNING OR EXCAVATION.

AT NO POINT IN TIME SHALL THE CONTRACTOR REMOVE ANY TREES OR SHRUBS WITH OUT PREVIOUS AUTHORITY FROM THE GOVERNING PERMIT AGENCY.

EXCAVATION IN LAWN AREAS SHALL BE "NEAT LINED" WITH A SOD CUTTER TO ENSURE A SMOOTH MATCH LINE FOR REPAIR WITH APPROVED SOD.

ALL LAWN RESTORATION SHALL BE DONE BY USING SOD PLACED TO THE GROWER/SUPPLIERS SPECIFICATIONS AND ADJACENT PROPERTY OWNER'S SPECIFICATIONS.

SOD USED TO REPAIR EXISTING LAWN AREA SHALL BE OF A BLEND THAT WILL MATCH THE ADJACENT UNDISTURBED LAWN AREA FOR BOTH COLOR AND TEXTURE.

PRIVATE IRRIGATION SYSTEMS ARE OCCASIONALLY LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY OF ADJACENT STREET AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OPERATION AND REPAIR IF DAMAGE OCCURS DURING HIS CONSTRUCTION ACTIVITY. PRIVATE IRRIGATION SYSTEMS LOCATED ON PRIVATE PROPERTY DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.

IN DEVELOPED (PROFESSIONALLY) LANDSCAPED AREAS, NO WORK SHALL BE DONE WITHOUT THE OWNER'S WRITTEN PERMISSION OR AUTHORIZATION.

STRUCTURE PROTECTION:

VAULTS AND CONDUIT TO BE PLACED ADJACENT TO EXISTING STRUCTURES SUCH AS BRIDGE FOOTINGS, PIERS, BUILDING FOUNDATIONS, WALLS, POWER AND TELEPHONE POLES, AND OTHER UTILITIES SHALL MAINTAIN A MINIMUM CLEARANCE AS SHOWN. THE CONTRACTOR SHALL NOT UNDERMINE ANY ADJACENT STRUCTURE WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE OWNER/OPERATOR OF SUCH STRUCTURE.

EXISTING UTILITIES EXPOSED DURING EXCAVATION SHALL BE 100% SUPPORTED BY BOTH TRENCH BRIDGING AND SUSPENSION OR BY THE USE OF LONGITUDINAL TRAYS OR PLATFORMS VERTICALLY SUPPORTED BY ADJUSTABLE BUILDING JACKS.

EXISTING SPLICE CASES AND CABLES SHALL BE SUPPORTED AT A MAXIMUM SPACING OF 4.0 FEET AND SHALL CONSIST OF A CANVAS SLING WITH NYLON BELTING OR ROPE. ALL CABLE SUPPORTS SHALL BE PLACED IN A MANNER THAT PREVENTS KINKS OR OTHER DAMAGE TO THE CABLE SHEATH.

AN ACCEPTABLE ALTERNATIVE TO CABLE SLINGS WOULD BE THE UTILIZATION OF A WIDE FLANGE "I" BEAM OR CHANNEL AS A "CABLE TRAY" WITH THE CABLES/CASES BANDED IN PLACE.

SHORING:

THE CONTRACTOR SHALL PROVIDE SHORING FOR CONDUIT TRENCH EXCAVATION 42" OR MORE IN DEPTH AS MEASURED FROM THE HIGH SIDE OF THE TRENCH AND FOR ALL MANHOLE EXCAVATION.

MANHOLE SHORING SHALL BE TIGHT-SHEETED.

ALL SHORING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE JURISDICTIONAL PERMIT AGENCY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

SHORING SHALL BE DESIGNED TO MEET H-20 HIGHWAY LOADING CRITERIA.

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND DESIGN CALCULATIONS TO THE PERMIT ISSUING AGENCY PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

EXISTING UTILITY SERVICES:

ANY UTILITY DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE RETURNED TO FULL SERVICE IMMEDIATELY AND ANY COST OR EXPENSE CONSIDERED TO BE LOST BY THE UTILITY USER SHALL BE THE CONTRACTOR'S RESPONSIBILITY. IN THE EVENT OF ANY DAMAGE TO AN EXISTING UTILITY THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE PROJECT MANAGER.

LANDSCAPE AREAS SERVED BY IRRIGATION SYSTEMS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY THE UTILIZATION OF TEMPORARY SOURCES OF IRRIGATION WATER OR BY MAKING TEMPORARY REPAIRS TO THE DAMAGED SYSTEM TO ALLOW ITS SATISFACTORY OPERATION.

SPECIAL UTILITY CLEARANCES:

ALL WORK CONDUCTED ADJACENT TO WATER MAINS, STORM SEWERS, OR SANITARY SEWERS SHALL CONFORM TO THE FOLLOWING CONDITIONS, UNLESS OTHERWISE SPECIFIED BY THE GOVERNING PERMIT AGENCY:

A. PARALLEL CONDUIT SHALL MAINTAIN A HORIZONTAL SEPARATION OF 5.0 FEET, MEASURED SURFACE TO SURFACE. (OUTSIDE EDGE TO OUTSIDE EDGE)

B. PERPENDICULAR CONDUIT PASSING UNDER OR OVER UTILITIES MUST MAINTAIN 12" VERTICAL CLEAR SEPARATION. UNLESS SPECIFICALLY STATED OTHERWISE BY THE JURISDICTIONAL UTILITY OR PERMIT AGENCY.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THIS REQUIRED VERTICAL SEPARATION BY EITHER EXPOSING THE UTILITY EVERY 100 FEET IN THOSE AREAS WHERE HORIZONTAL SEPARATION IS LESS THAN 5.0 FEET OR BY UTILIZING KNOWN DEPTHS OF ADJACENT FACILITIES. IF THE CONTRACTOR UTILIZES THE ADJACENT FACILITIES TO DETERMINE DEPTH, HE SHALL CONTACT THE GOVERNING AGENCY AT EACH SUCH LOCATION AND THE AGENCY WILL DETERMINE THE NECESSARY DEPTH OF THE TOP OF THE CONDUIT AT THAT POINT.

D. THE VERTICAL AND HORIZONTAL SEPARATION SHALL BE MAINTAINED AT ALL TIMES UNLESS SPECIFICALLY STATED OTHERWISE BY THE JURISDICTIONAL PERMIT AGENCY. ANY SPECIFIC DEVIATION IN VERTICAL AND HORIZONTAL SEPARATION FROM THOSE DESCRIBED SHALL BE REPORTED TO THE OWNER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL SEPARATION AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL ENCROACHMENTS.

Plot Date: 25 Jun 2019, 5:08am By User: Owner Drawing Name: E:\SUPPORT\CCLLC CAD STANDARDS\CAD STANDARDS_CCLLC\CONSULT\CCLLC-DT00.DWG Layout (If Any): gn01_1.3



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STANDARD PLANS FOR CONSTRUCTION

GENERAL NOTES

CITY: CITY - TOWNSHIP RANGE SECTION(S):		COUNTY: COUNTY CO., STATE	
PLOT DATE: 6/25/2019	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # CCLLC-DT00.DWG - GN01_1.3	SHEET 1.3

SPECIFICATION SET

PROTECTION OF EXISTING SURVEY MONUMENTS:

THE CONTRACTOR SHALL REPLACE ALL MONUMENTS THAT DEFINE PROPERTY OWNERSHIP SUCH AS IRON RODS, IRON PIPES, BRASS SCREWS, AND REFERENCE POINTS AS REQUIRED BY THE GOVERNING STATE STATUTES. ANY CORNER OR REFERENCE TO A CORNER OF A RECORD OF SURVEY SHALL BE REPLACED BY A LICENSED SURVEYOR WITHIN 90 DAYS OF ITS REMOVAL.

REPLACEMENT MONUMENTS SHALL CONFORM TO STATE STATUTES AS TO TYPE AND STYLE OF IDENTIFICATION WITH THE NECESSARY RECORD OF SURVEY IDENTIFYING WHAT WAS FOUND ORIGINALLY AND WHAT WAS SET AND THE DATE THE REPLACEMENT WAS SET. THE RECORD OF SURVEY SHALL BE COMPLETED IN CONFORMANCE WITH THE REGULATIONS OF THE RELEVANT STATE AND THE JURISDICTIONAL PERMIT AGENCY SURVEYOR.

IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERSTAND AND COMPLY WITH THE JURISDICTIONAL STATUTES SET FORTH BY THE RELEVANT GOVERNING AGENCY.

CONSTRUCTION STAKING:

IN AREAS WHERE THE CONDUIT ALIGNMENT IS NOT CLEARLY DEFINED BY CURB LINES, FENCE LINES, OR OTHER EVIDENCE OF THE RIGHT-OF-WAY, IT IS RECOMMENDED THAT THE CONTRACTOR COORDINATE WITH A PROFESSIONAL SURVEYOR TO PROVIDE STAKING OR PAINT MARKS TO CLEARLY IDENTIFY THE PROPOSED ALIGNMENT.

IF ADDITIONAL FIELD STAKING OF PROPOSED CONDUIT ALIGNMENTS AND VAULT LOCATIONS IS REQUIRED, THE CONTRACTOR IS TO CONTACT THE INSPECTOR AND THE PROJECT DESIGNER TO SCHEDULE A FIELD MEET PRIOR TO CONSTRUCTION.

IF DISCREPANCIES BETWEEN PROFESSIONALLY SURVEYED RIGHT-OF-WAY AND THE PROPOSED ALIGNMENT ARE IDENTIFIED CONTRACTOR IS TO NOTIFY THE REGULATORY PERMIT AGENCY INSPECTOR AND THE PROJECT DESIGNER PRIOR TO CONSTRUCTION.

TRAFFIC CONTROL:

WORK ON ANY PUBLIC OR PRIVATE ROW WITH OR WITHOUT PERMIT THROUGH THE GOVERNING AGENCY MAY REQUIRE ADEQUATE TRAFFIC CONTROL TO PERFORM CONSTRUCTION ACTIVITIES.

TRAFFIC WARNING DEVICES AND SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (U.S. GOVERNMENT PRINTING OFFICE) AND TO THE GOVERNING AGENCY STANDARD SPECIFICATIONS. HIGH LEVEL WARNING TYPE DEVICES ARE TO BE USED AT ALL TIMES AND SPECIAL WARNING DEVICES MAY BE STIPULATED BY THE JURISDICTIONAL PERMIT AGENCY AT ANY TIME THE USE WILL ADD TO THE SAFETY AND PROTECTION OF TRAFFIC OR PEDESTRIANS IN THE CONSTRUCTION AREA.

A TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR AS REQUIRED AND SUBMITTED TO EACH PERMITTING AGENCY REQUESTING SUCH PLAN FOR REVIEW AND APPROVAL OR REVISION PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY FOR THIS PROJECT. THE APPROVED PLAN SHALL BE SUBMITTED TO THE AGENCY AND A COPY OF THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND MUST BE READILY AVAILABLE FOR REVIEW BY AGENCY REPRESENTATIVES.

PERMITS – FRANCHISES – EASEMENTS:

PHYSICAL WORK SHALL NOT BE STARTED UNTIL THE GOVERNING AGENCY INSPECTOR AND THE CONTRACTOR ARE IN POSSESSION OF AND HAVE CAREFULLY REVIEWED AND FULLY UNDERSTAND ALL CONDITIONS AND SPECIFICATIONS SET FORTH IN THE REQUIRED PERMITS, FRANCHISES, AND/OR EASEMENTS.

THE PLACING FOREMAN SHALL HAVE A COPY OF THE PERMITS/EASEMENTS ON SITE AT ALL TIMES.

ANY CONFLICT BETWEEN WORK PRINT SPECIFICATIONS AND SPECIFICATIONS SET FORTH UNDER RELATED PERMITS, FRANCHISES, AND/OR EASEMENTS MUST BE CLEARED BY PROPER COMPANY AUTHORITY BEFORE PROGRESSING WITH WORK INVOLVED.

AERIAL NOTES:

ALL AERIAL CONSTRUCTION IS TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS. ALL NEW OR EXISTING CABLE HEIGHTS OF ATTACHMENT TO BE DOCUMENTED AT TIME OF CONSTRUCTION.

6.6M STRAND TO BE USED WITH STANDARD 5/8" POLE LINE HARDWARE UNLESS OTHERWISE SPECIFIED. BOND STRAND TO POWER MGN WHERE APPLICABLE.

ALL EXTENSION ARMS TO BE PLACED WILL BE EPOXY ARMS UNLESS OTHERWISE NOTED OR APPROVED BY THE INSPECTOR.

PUPI ARMS TO BE TYPE TB2000 UNLESS OTHERWISE SPECIFIED AND ARE TO BE INSTALLED ACCORDING TO THE POLE OWNER SPECIFICATIONS OR MANUFACTURER SPECIFICATIONS. POLE OWNER SPECIFICATIONS MAY SUPERSEDE MANUFACTURER SPECIFICATION FOR INSTALLATION AS REQUIRED. TYPICAL INSTALLATION INCLUDES UTILIZING TWO (2) THROUGH BOLTS AND NO LAG BOLTS.

ALL ANCHORS TO BE USED WILL BE 3/4 SCREW IN TYPE.

ALL STRAPS WILL BE PLACED 4" BEFORE AND AFTER EVERY SUPPORTING CLAMP AT A MINIMUM OF 21" APART. REPAIR / REPLACE EXISTING LASHING WIRE IF DAMAGED, AND ADD ANY MISSING GROUNDS.

CONTRACTOR TO PLUG ALL VACATED HOLES FROM ABANDONED OR RELOCATED ATTACHMENTS PER POLE OWNER SPECIFICATIONS.

IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN AND FOLLOW NATIONAL ELECTRIC SAFETY CODE ALONG WITH APPLICABLE LOCAL AND REGIONAL GOVERNING AUTHORITIES. ANY DISCREPANCIES BETWEEN THESE AUTHORITIES AND OR THE CONSTRUCTION PRINTS IS TO BE VALIDATED WITH THE DESIGNER OR OWNER PRIOR TO CONSTRUCTION.

CONDUITS:

ALL DIRECT BURIED CONDUIT SHALL BE PVC HEAVY WALL (SCH 40) OR HDPE SDR11 DIRECT BURIAL UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SUPPLIED MATERIALS SHALL CONFORM TO THE JURISDICTIONAL PERMIT AGENCY AND OWNER SPECIFICATIONS.

ALL CONTRACTOR SUPPLIED MATERIALS SHALL INCLUDE A CERTIFIED TEST REPORT CLEARLY STATING THAT THOSE SUPPLIED MATERIALS COMPLY WITH ANY SUCH SPECIFICATION.

ALL CONDUIT IS TO BE PLACED IN THE LOCATION SHOWN ON THE DESIGN PRINTS WITH MINIMUM COVER OF 36 INCHES OR AS NOTED ON THE DRAWINGS OR SPECIFIED BY THE REGULATORY PERMIT AGENCY.

THE TOTAL LENGTH OF TRENCH OPEN AT ANY ONE TIME IS TO BE KEPT TO A MINIMUM.

ALL HDPE CONDUITS ENTERING VAULTS SHALL HAVE A MINIMUM 5.0 FOOT STRAIGHT SECTION OF SCH 40 PVC CONDUIT SLEEVE. THIS STRAIGHT SECTION SHALL BE PERPENDICULAR TO THE WALL OF SAID MANHOLE AND SHALL BE SMOOTH AND FREE OF ALL BURRS AND OTHER FEATURES THAT MAY DAMAGE CABLES. PLUGS SHALL BE UTILIZED TO ORGANIZE, SECURE AND SEAL THE HDPE CONDUITS WITHIN THE SLEEVE AS THEY ENTER THE VAULT.

ALL PVC OR HDPE CONDUITS ARE TO BE PLUGGED WITH COMPRESSION STYLE PLUGS. ANY CONDUITS CONTAINING FIBER CABLES WILL REQUIRE SIMPLEX COMPRESSION PLUGS SEALING THE CONDUIT AROUND THE CABLE.

CASINGS:

ANY REQUIRED STEEL CASING PIPE SHALL BE 100% FILET WELD (3/16") OR THREADED COUPLING.

IF WELDED THE CONTRACTOR SHALL PROVE THE INTERIOR DIMENSION BY PULLING A MANDREL COMPLETELY THROUGH THE WELDED JOINT IN BOTH DIRECTIONS. PIPE JOINTS SHALL BE STEEL BRUSHED AND PAINTED WITH A ZINC RICH FLAT BLACK METAL PRIMER PAINT.

VAULTS / HANDHOLES:

ALL VAULTS TO BE UTILITY VAULT PRECAST TYPE 444-LA UNLESS OTHERWISE SPECIFIED. 444-LA VAULTS ARE TO BE FULLY EQUIPPED WITH LADDERS, CABLE RACKS, SUPPORTS, AND PULLING IRONS AS SHOWN BELOW:

- (4) "L" BRACKETS
- (4) 8 HOLE – 113/4" CUT RACKS
- (4) SPRING NUT & SCREWS – (1/2" NUT, 1/2" X 1 1/4" PLATED CAP SCREW)

MOUNT BRACKETS ON 2' GALVANIZED "C" CHANNELS, 2 EA. SIDE, 18" APART

ALL VAULTS SHALL HAVE A SUMP CAST IN PLACE FOR DE-WATERING

GROUND COVER OVER ALL VAULTS SHOULD BE 36" MINIMUM DEPTH BELOW FINISHED STREET OR SIDEWALK ELEVATION UNLESS OTHERWISE SPECIFIED IN THE VAULT DETAILS OR ON ANY RIGHT-OF-WAY PERMIT ISSUED. IN ADDITION, DEPTH OF COVER OVER MANHOLES SHALL NOT EXCEED 60" OF COVER TO THE TOP OF THE VAULT OR PER VAULT MANUFACTURER'S SPECIFICATIONS.

EXCAVATION OVER VAULTS IS CONSIDERED PART OF THE TOTAL VAULT INSTALLATION.

IF ANY FIELD SLOTTING OF PRECAST CONCRETE VAULTS IS REQUIRED TO PROVIDE ACCESS FOR CABLES AND CONDUIT NOT PROVIDED WITH A BLOCKOUT FOR THAT PURPOSE; THE FIELD SLOT SHALL BE REPAIRED BY SPLICING ANY REINFORCING REBAR THAT HAS BEEN CUT TO ALLOW CABLE ENTRY AND SHALL BE SEALED WITH NON-SHRINK CONCRETE GROUT. THE CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF IT BECOMES EVIDENT FIELD SLOTTING WILL BE NECESSARY. FIELD SLOTS SHALL BE SAWCUT (SCORED INSIDE AND OUT) AND BRUSH HAMMER TO PROVIDE A ROUGHENED SURFACE FOR GROUT BONDING AND TO MINIMIZE REINFORCING SPLICES.

EXCAVATION FOR ALL PRECAST VAULTS AND HANDHOLES MUST ALLOW FOR OVERALL ASSEMBLED HEIGHT OF THE VAULT PLUS ADDED HEIGHT OF RISERS AND BEDDING MATERIAL CONSISTING OF 6" OF COMPACTED SAND OR GRAVEL, GRADED LEVEL. A MINIMUM EXCAVATION CLEARANCE OF 4" AROUND THE SIDEWALLS OF THE VAULT IS REQUIRED FOR EASE OF INSTALLATION.

BACKFILL AROUND ALL VAULTS SHOULD CONSIST OF COMPACTED SELECT BACKFILL MATERIAL OR IN ACCORDANCE WITH AGENCY SPECIFIED BACKFILL. IN NO CASE SHALL THE MATERIAL BE SATURATED SOIL, OR CONTAIN LARGE ROCKS OR CHUNKS. NO VOIDS SHOULD REMAIN BETWEEN THE VAULT WALLS AND NATIVE SOIL OF EXCAVATION. BACKFILLING SHOULD NOT BE DONE UNTIL THE VAULT IS COMPLETELY ASSEMBLED MAKING CERTAIN TO COMPACT THE BACKFILL PROGRESSIVELY IN 12" LIFTS FROM THE BOTTOM TO THE TOP SURFACE. WHEN USING MECHANICAL VIBRATORY EQUIPMENT TO OBTAIN 95% COMPACTION NEAR COMPOSITE VAULTS AND HANDHOLES, CONTRACTOR IS TO PLACE INTERNAL CROSS-BRACING PER MANUFACTURER SPECIFICATIONS.

ALL BACKFILLING IS THE RESPONSIBILITY OF THE CONTRACTOR.

ALL GROUTING OF RISERS, COVERS, CONDUIT, OR SPECIFIC SECTIONS OF VAULTS IS THE RESPONSIBILITY OF THE CONTRACTOR. NON-SHRINK CONCRETE GROUT WILL BE USED TO SEAL ALL JOINTS AND APPLIED IN A MANNER TO ENSURE COMPLETE FILLING OF VOIDS IN THE JOINT BEING SEALED.

ACCESS DOORS SHALL BE CONSTRUCTED OF STEEL, ALUMINUM, OR CONCRETE WITH AN APPROVED NON-SLIP SURFACE HAVING A STATIC COEFFICIENT OF FRICTION BETWEEN 0.60 AND 1.00 AS DETERMINED BY ASTM DESIGNATION C 1028-89. ACCESS DOORS ON INCLINED SURFACES GREATER THAN 4 % SHALL HAVE A COEFFICIENT OF FRICTION BETWEEN 0.80 AND 1.00.

OWNERS ARE RESPONSIBLE TO MAINTAIN THE NON-SLIP CHARACTERISTICS OF THE ACCESS DOOR OVER ITS LIFE IN THE SIDEWALK AREA.

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STANDARD PLANS FOR CONSTRUCTION

GENERAL NOTES

CITY: CITY – TOWNSHIP RANGE SECTION:		COUNTY: COUNTY CO., STATE	
PLOT DATE: 3/28/2018	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG – TAB_SHEET # CCLLC-DT00.DWG – GN02_1.4	SHEET 1.4

SPECIFICATION SET

EXISTING MANHOLE ACCESS:

THE CONTRACTOR SHALL CORE DRILL EXISTING CONCRETE WALLS TO PROVIDE ACCESS FOR CONDUIT AS SHOWN IN THE PLANS. CORE DRILLING SHALL PROVIDE A MINIMUM 1 INCH LARGER DIAMETER HOLE THAN THE SIZE OF CONDUIT BEING PLACED. THE CONTRACTOR SHALL SEAL THE VOID BETWEEN THE CONDUIT AND THE CONCRETE WITH NON-SHRINK EPOXY GROUT.

THE CONTRACTOR SHALL REPAIR ANY STRUCTURAL REINFORCING DAMAGED BY CORE DRILLING. REINFORCING REPAIR SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF CRSI (CONCRETE REINFORCED STEEL INSTITUTE).

IF THE CONTRACTOR ELECTS TO ADJUST AN ACCESS HOLE IN WHICH REINFORCING WAS FOUND TO AVOID DAMAGE TO THE REINFORCING STEEL HE SHALL FULLY EXPOSE THE SURFACE OF THE REBAR AND FIELD COAT THE BAR WITH A ZINC RICH PAINT BEFORE PLACING NON-SHRINK EPOXY GROUT TO REPAIR DAMAGE.

LOCATORS AND MARKERS:

THE CONTRACTOR IS RESPONSIBLE FOR PLACING APPROPRIATE MARKERS TO INSURE THAT OTHER UTILITIES WORKING IN THE AREA OF OWNER FACILITIES ARE AWARE OF THEIR PRESENCE BEFORE DAMAGE CAN OCCUR. MARKING WILL BE MADE BY USE OF "WARNING TAPE" AND "POST MARKERS" FOR CONDUIT, AND 3M ELECTRONIC MARKER SYSTEM (EMS) LOCATORS FOR VAULTS AND HANDHOLES.

"WARNING TAPE" SHOULD BE PLACED A MINIMUM OF 12" ABOVE ANY CONDUIT ALONG THE ENTIRE TRENCH ROUTE, WHILE ADDITIONALLY "POST MARKERS" SHOULD BE PLACED EVERY 500' IN SUBURBAN AREAS AND 1000' IN RURAL AREAS.

BOTH VAULTS AND HANDHOLES ARE TO BE EQUIPPED WITH EMS LOCATORS. VAULTS AND HANDHOLES SHALL HAVE EMS MARKERS INSTALLED SECURED ON THE WALL AT THE TOP TO EASE LOCATING.

LOCATE WIRE AND BONDING:

ALL UNDERGROUND TELECOMMUNICATIONS INFRASTRUCTURE CONDUIT SHALL HAVE A #12 AWG HDPE 30 MIL COPPER STRANDED LOCATE WIRE PLACED INSIDE OR ALONG THE CONDUIT ALIGNMENT UNLESS SPECIFIED OTHERWISE BY THE GOVERNING PERMIT AGENCY.

ALL LOCATE WIRE SHALL BE EFFECTIVELY GROUNDED PER INDUSTRY ACCEPTABLE STANDARDS. T-3 LOCATE WIRE ACCESS TERMINALS OR APPROVED EQUIVALENT SHALL BE INSTALLED AT VAULT/HANDHOLE LOCATIONS FOR TERMINATION OF LOCATE WIRE AND HAVE SUFFICIENT ACCESS FOR THE EASE OF LOCATING FACILITIES. LOCATE WIRE TERMINALS ARE TO BE MOUNTED ON AN ACCESSORY ANGLE BRACKET ON THE INTERIOR RISER / WALL OF A CONCRETE VAULT OR INTERIOR WALL OF A FIBERGLASS / COMPOSITE VAULT.

ALL NEW UTILITY VAULT OR HANDHOLE INSTALLATIONS SHALL REQUIRE THE INSTALLATION OF A 5/8" COPPER CLAD GROUND ROD IN OR THROUGH THE BOTTOM OF THE VAULT USING CAUTION NOT TO DAMAGE EXISTING SUBSTRUCTURE. GROUND ROD SHALL BE OF PROPER LENGTH AND PLACEMENT TO ACHIEVE AN EFFECTIVE ELECTRICAL GROUND PER NEC / NESC AND THE GOVERNING PERMIT AGENCY. #6 AWG COPPER WIRE IS TO BE PLACED FROM THE GROUND ROD TO THE GROUND LUG ON THE T-3 LOCATE WIRE TERMINAL. ALL #12 AWG LOCATE WIRE ENTERING VAULTS OR HANDHOLES SHALL BE TERMINATED TO THE T-3 LOCATE WIRE ACCESS TERMINAL USING MANUFACTURER SUPPLIED BINDING POSTS. BONDING STRAPS ARE TO BE INSTALLED BETWEEN ALL #12 BINDING POSTS AND THE #6 GROUND LUG EFFECTIVELY GROUNDING ALL LOCATE WIRE WITHIN THE STRUCTURE.

LOCATE WIRE PLACED THROUGH CONDUIT RISERS WHEN TRANSITIONING FROM UNDERGROUND TO AERIAL ON UTILITY POLES SHALL BE BONDED TO THE MGN ON THE POLE NEAR THE TOP OF THE RISER. IF NO MGN IS PRESENT A NEW #6 AWG VERTICAL GROUND AND 5/8" COPPER CLAD GROUND ROD SHALL BE PLACED PER NESC / NEC GUIDELINES TO ACCOMMODATE EFFECTIVE GROUNDING.

PRIOR TO TOUCHING, WORKING OR CONNECTING LOCATING EQUIPMENT TO LOCATE WIRE, THE SYSTEM MUST BE TESTED FOR INDUCED VOLTAGE. INSTALL FILTER PROTECTOR / ARRESTOR AS REQUIRED ON ONE OR BOTH LOCATE WIRES IF INDUCED VOLTAGE EXCEEDS 50VAC.

*ALL LOCATE WIRE TERMINATION AND BONDING OF CONDUCTIVE MATERIALS TO BE IN ACCORDANCE WITH THE LATEST VERSION OF THE NATIONAL ELECTRIC SAFETY CODE AND THE NATIONAL ELECTRIC CODE.

BUILDING CONSTRUCTION:

ALL WORK SHALL BE DONE IN A "NEAT AND WORKMAN" LIKE MANNER, IN CONFORMITY WITH LOCAL, STATE AND FEDERAL BUILDING CODES. ALL WORK MUST COMPLY WITH APPLICABLE DATA SYSTEM STANDARDS AND NATIONAL ELECTRIC CODE STANDARD SPECIFICATIONS. STANDARDS INCLUDE, BUT ARE NOT LIMITED TO, EIA/TIA 568-B COMMERCIAL BUILDING WIRING STANDARDS AND EIA/TIA 569-A COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.

AS-BUILT DATA – METHOD OF PROCEDURE:

UPON NOTIFICATION OF COMPLETION OF THE WORK AND ACCEPTANCE BY THE OWNER, THE CONTRACTOR SHALL PROVIDE THE PROJECT MANAGER WITH A SET OF NEAT AND ACCURATE "AS-BUILT" DRAWINGS WITHIN 10 BUSINESS DAYS OF COMPLETION OF THE PROJECT.

AS-BUILT DATA SHALL BE UPDATED AND MAINTAINED DAILY ON FIELD COPY DRAWINGS FOR THE DURATION OF CONSTRUCTION. UPON COMPLETION OF THE PROJECT, THE AS-BUILT DATA SHALL BE TRANSFERRED TO A CLEAN SET OF CONSTRUCTION DRAWINGS FOR SUBMITTAL TO THE PROJECT MANAGER.

THE AS-BUILT DATA SHALL BE DETAILED ON THE DRAWINGS IN EITHER COLORED INK OR COLORED PENCIL ACCORDING TO THE FOLLOWING COLOR CODES:

RED: WORK PLACED ACCORDING TO DESIGN AND CHANGES TO THE DESIGN
GREEN: WORK NOT PLACED ACCORDING TO THE DESIGN; OMIT FROM DESIGN
BLUE: EXISTING UTILITIES, FACILITIES, COMMENTS AND NOTES

1) WORK PERFORMED ACCORDING TO THE DESIGN SHALL BE HIGHLIGHTED OR LOCATED IN RED.

2) WORK PERFORMED ACCORDING TO APPROVED CHANGES OR VARIATIONS TO THE DESIGN SHALL BE NEATLY DRAWN AND DETAILED ON THE DRAWINGS SHOWING HOW THE CHANGES WERE CONSTRUCTED IN THE FIELD.

3) WORK THAT WAS DESIGNED BUT NOT PERFORMED AS SHOWN ON THE DRAWINGS SHALL BE HIGHLIGHTED OR LOCATED IN GREEN TO SHOW THAT THE WORK FUNCTION WAS NOT CONSTRUCTED AS DESIGNED.

4) EXISTING FACILITIES OR UTILITIES ENCOUNTERED; CONSTRUCTION NOTES; ADDITIONAL CONSTRUCTION RELATED INFORMATION IDENTIFIED IN THE FIELD SHALL BE NEATLY DRAWN AND DETAILED IN BLUE.

COLORED HIGHLIGHTER PENS ACCORDING TO THE COLOR CODES AS DETAILED ABOVE ARE ACCEPTABLE. FLUORESCENT YELLOW HIGHLIGHTER PENS ARE NOT AN ACCEPTABLE FORM OF AS-BUILT COLORING.

AS-BUILT DRAWINGS SHALL CONTAIN THE FOLLOWING DATA AT A MINIMUM FOR EACH OF THE FOLLOWING WORK FUNCTIONS:

AERIAL SEGMENTS:

1) POINT OF ATTACHMENT HEIGHT FROM THE GROUND TO THE CABLE AND/OR STRAND ON ALL POLES.

2) CABLE FOOTAGE (SEQUENTIAL) MARKINGS AT ALL CABLE ENDS; START AND END OF SLACK STORAGE AND CONDUIT ENTRANCE / EXIT POINTS.

3) LOCATION OF ALL SLACK STORAGE AND CABLE SPLICE POINTS.

4) ANCHOR AND DOWN GUY SIZE PLACED AND LEAD LENGTH BETWEEN THE ANCHOR AND THE POLE.

UNDERGROUND SEGMENTS:

1) DEPTH OF CONDUIT MEASURED EVERY 25 FEET AND AT EVERY CHANGE IN DIRECTION ALONG THE CONDUIT ALIGNMENT.

2) OFFSET DISTANCE MEASURED EVERY 25 FEET AND AT EVERY CHANGE IN DIRECTION FROM THE ALIGNMENT TO A CURB, EDGE OF PAVEMENT OR OTHER PHYSICAL REFERENCE OBJECT.

3) LOCATION AND DEPTH OF VAULTS, HAND HOLES AND JUNCTION BOXES PLACED.

4) DEPTH, TYPE AND DIRECTION OF ANY EXISTING UTILITY ENCOUNTERED CROSSING THE CONDUIT ROUTE.

5) LOCATION OF MAGNETIC LOCATING TARGETS PLACED.

6) CABLE FOOTAGE (SEQUENTIAL) MARKINGS AT ALL CABLE ENDS, START AND END OF SLACK STORAGE, CONDUIT ENTRANCE / EXIT POINTS.

7) ACTUAL QUANTITY OF CABLE SLACK STORAGE LEFT IN VAULT LOCATIONS.

8) ACTUAL WALL TO WALL MEASUREMENTS OF CONDUIT SEGMENTS BETWEEN VAULTS.

9) PROVIDE DETAILED VAULT BUTTERFLY DRAWINGS INCLUDING CONDUIT ENTRY AND EXIT LOCATIONS; CONDUIT SIZE & TYPE; CABLE ROUTING; CABLE COILS; SPLICE CASES; RACKING; LOCATE WIRES; LOCATE TERMINALS; GROUND RODS; GROUNDING; AND GENERAL ORIENTATION.

AS-BUILT DATA – METHOD OF PROCEDURE:

DIRECTIONAL BORING:

1) DEPTH OF CONDUIT MEASURED EVERY 10 FEET WITH A RUNNING LINE OFFSET DISTANCE FROM A CURB, EDGE OF PAVEMENT OR OTHER PHYSICAL REFERENCE OBJECT.

2) BORE PLAN AND PROFILE DRAWING REFLECTING THE DEPTH AND RUNNING LINE OFFSET MEASUREMENT EVERY 10 FEET THROUGHOUT THE ENTIRE LENGTH OF THE BORE; DETAIL BORE PROFILES WITH DEPTH AND LOCATION OF ALL VISUALLY VERIFIED UTILITIES (I.E. ALL POT-HOLED UTILITIES EXPOSED ALONG THE BORE ALIGNMENT)

3) AS-BUILT DRAWINGS SHALL HAVE THE WORDS "AS-BUILT" WITH THE NAME OF THE CONTRACTOR AND THE DATE STAMPED ON EVERY SHEET IN THE DRAWING PACKAGE.

ANY CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE PROJECT MANAGER OR THE OWNER PRIOR TO MAKING ANY OF THE SAID CHANGES OR DEVIATIONS.

PHOTO DOCUMENTATION:

ALL UNDERGROUND VAULTS; JUNCTION BOXES; CONDUIT INFRASTRUCTURE; TRENCHES; EXCAVATIONS; AND RESTORATION TO BE CLEARLY PHOTOGRAPHED BEFORE, DURING AND AFTER CONSTRUCTION TO VERIFY THAT CONSTRUCTION PROCEDURES ARE MET. FACILITY ENTRANCES, PULL BOXES, CABLE RACEWAYS, SPLICE CASES, SPLICE TRAYS, TERMINATION RACKS AND OTHER EQUIPMENT OR ELECTRONICS INSTALLED BY CONTRACTOR TO BE PHOTOGRAPHED AT THE TIME OF INSTALLATION TO ENSURE PROPER PROCEDURES ARE MET AND TO PROVIDE ADEQUATE DOCUMENTATION TO SERVE AS ASBUILT RECORD.

GENERAL SPECIFICATIONS DISCLAIMER

THE INFORMATION CONTAINED IN THESE SPECIFICATIONS PROVIDES GENERAL GUIDELINES NECESSARY TO FACILITATE THE INSTALLATION OF COMMUNICATIONS INFRASTRUCTURE. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE LOCAL GOVERNING AUTHORITY OR PERMIT AGENCY IS TO BE VALIDATED WITH THE DESIGNER OR OWNER PRIOR TO CONSTRUCTION. WHERE DETAILS ARE SHOWN, THEY ARE PROVIDED AS A REFERENCE FOR PLACEMENT OF COMMUNICATIONS INFRASTRUCTURE AND ACCEPTABLE INDUSTRY STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE INSTALLATION OF ALL INFRASTRUCTURE MEETS THE APPLICABLE LOCAL, REGIONAL AND NATIONAL BUILDING CODES AND SAFETY STANDARDS. COMMSTRUCTURE CONSULTING, LLC. DOES NOT ASSUME LIABILITY FOR THE NEGLIGENCE OF THE INSTALLATION CONTRACTOR AND THEIR ABILITY TO PERFORM ANY ASPECT OF THE WORK HEREIN ACCORDING TO THESE STANDARDS.

REFERENCES:

EIA/TIA COMMERCIAL BUILDING WIRING STANDARD, 606 AND ALL RECOGNIZED TSBS.

NATIONAL ELECTRIC SAFETY CODE

UNDERWRITER'S LABORATORIES (UL): APPLICABLE LISTINGS AND RATINGS

1) ALL CONDUIT PLACED ON PRIVATE PROPERTY IS TO BE SCH 40 PVC IF PLACED OUTSIDE THE BUILDING AND EMT IF PLACED WITHIN THE BUILDING. RISER CONDUIT ON THE EXTERIOR OF BUILDING IS TO BE GRC UNLESS OTHERWISE SPECIFIED.

2) ALL CONDUIT IS TO BE EQUIPPED WITH INNERDUCT AS SPECIFIED.

3) 90 BENDS ARE TO BE "SWEEP" BENDS, 3' RADIUS, UNLESS OTHERWISE SPECIFIED.

4) CONDUIT PATHWAYS WITHIN BUILDING INTERIORS SHALL BE SUPPORTED WITH APPROPRIATE HARDWARE SPECIFIC TO THE EXISTING MATERIAL OR STRUCTURE.

5) ALL EXTERIOR WALL PENETRATIONS ARE TO BE RESEALED PER BUILDING AND FIRE CODE.

6) ALL INTERIOR WALL PENETRATIONS ARE TO COMPLY WITH PERTINENT BUILDING AND FIRE CODES AND ARE TO BE CONSTRUCTED IN SUCH A MANNER AS TO INSURE THE INTEGRITY OF THE PENETRATED WALL.

7) ALL PULL BOXES ARE TO BE NEMA TYPE 3R OR EQUIVALENT.

8) NOTIFY THE "BUILDING CONTACT" PERSON A MINIMUM OF 48 HOURS PRIOR TO COMMENCING ANY WORK ON THE PREMISES.

STANDARD PLANS FOR CONSTRUCTION

GENERAL NOTES

CITY: CITY – TOWNSHIP RANGE SECTION:

COUNTY: COUNTY CO., STATE

PLOT DATE:
3/28/2018

SCALE:
AS SHOWN

PROJECT NAME-FILENAME.DWG – TAB_SHEET #
CCLLC-DT00.DWG – GN03_1.5

SHEET
1.5

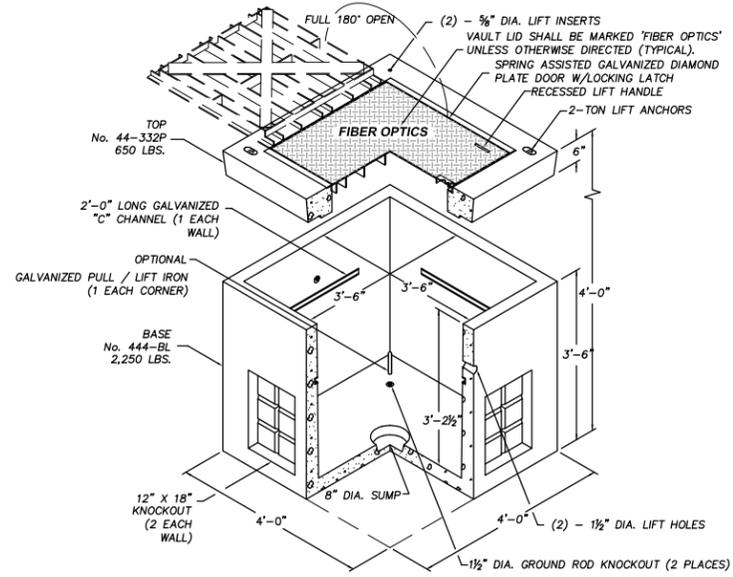
DESIGNED BY: CCLLC	FIELD BY: CCLLC			
CHECKED BY: CCLLC	DRAWN BY: CCLLC			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.



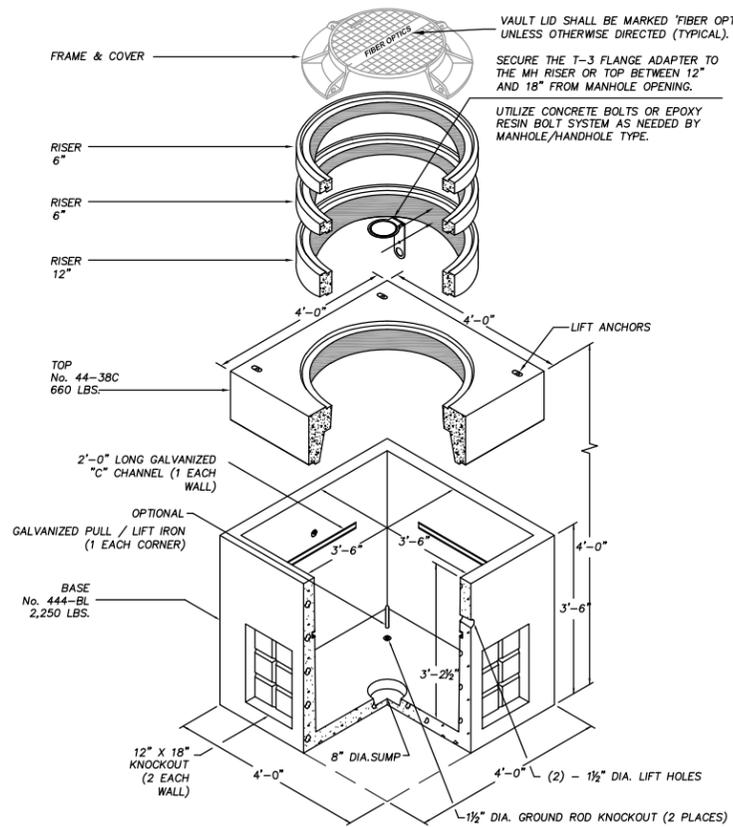
811 Railroad Avenue
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503.343.4134

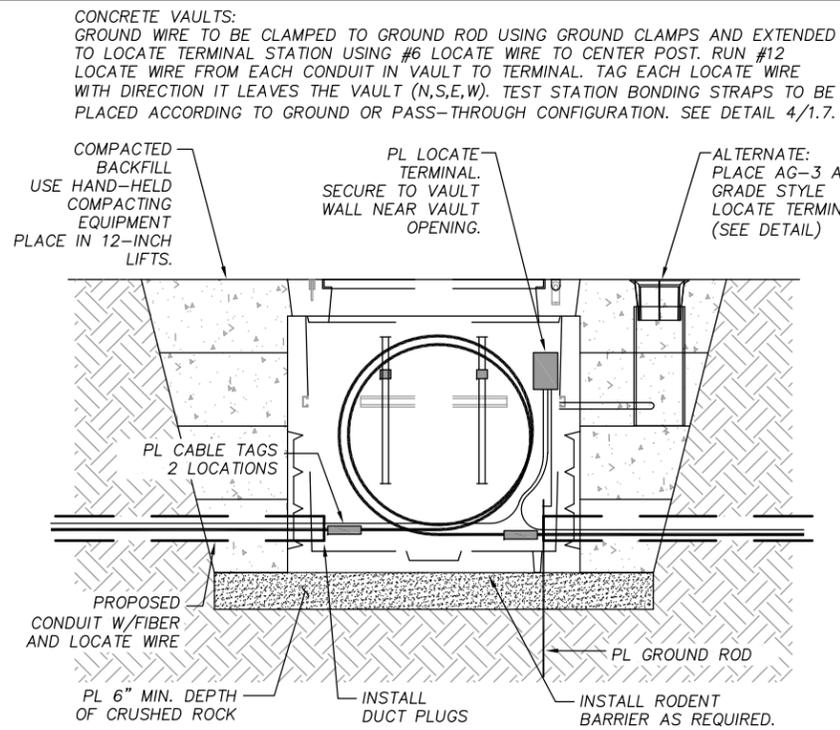
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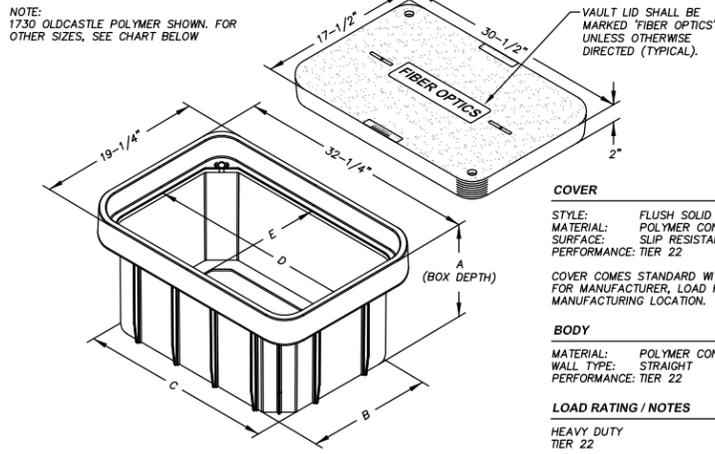
**(SIDEWALK / INCIDENTAL TRAFFIC LOC.)
UTILITY VAULT PRE-CAST 444-LA** 1
1.6
SCALE: (ADDITIONAL DETAILS SEE 1.1/1.6 & 4/1.6)



**(ROADWAY / SUSTAINED TRAFFIC LOC.)
UTILITY VAULT PRE-CAST 444-LA** 2
1.6
SCALE: (ADDITIONAL DETAILS SEE 1.1/1.6 & 4/1.6)

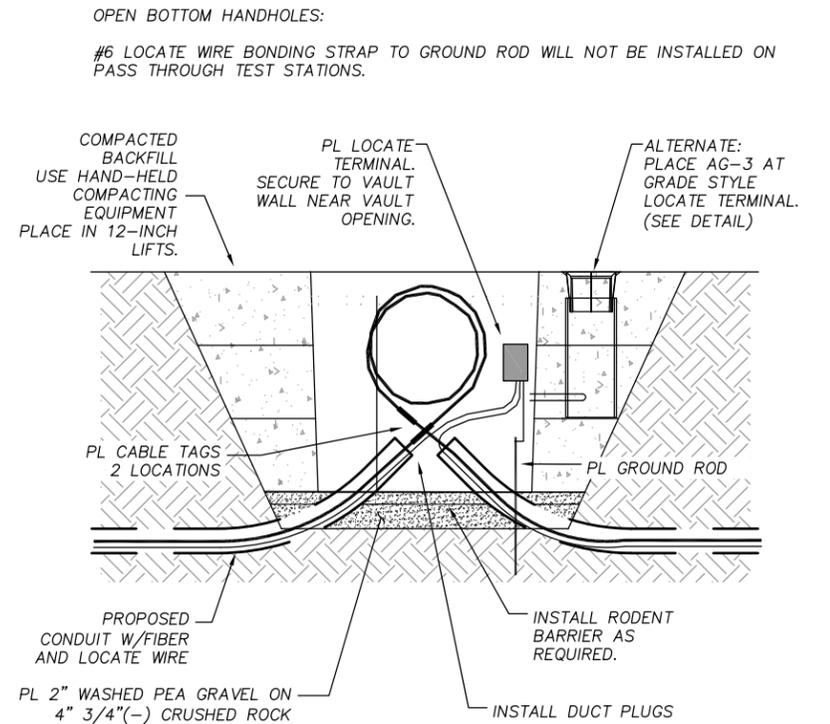


**VAULT SECTION INTERIOR DETAIL
UTILITY VAULT PRE-CAST MANHOLE** 1.1
1.6
SCALE: (ADDITIONAL DETAILS SEE 4/1.7 & 5/1.7)

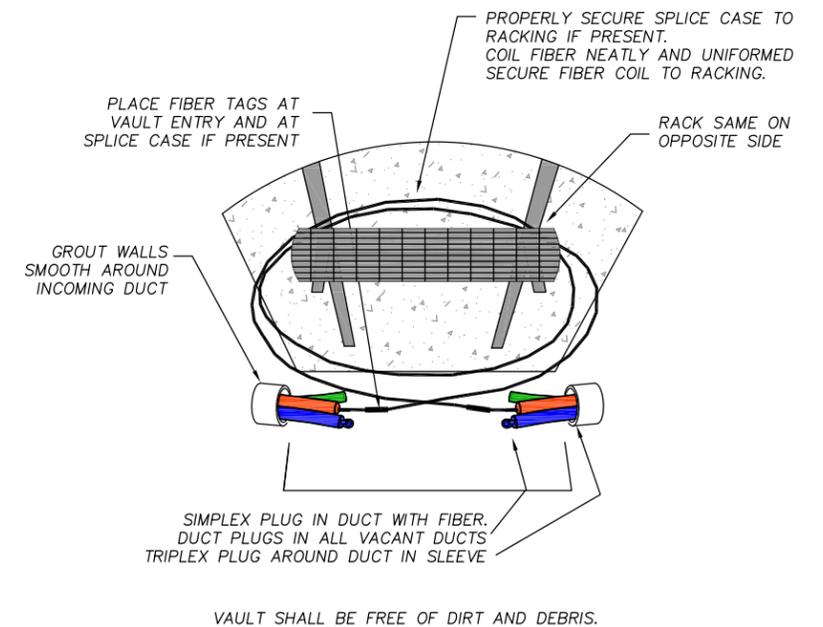


DESCRIPTION (OLD CASTLE POLYMER)	NOMINAL SIZE	A	B	C	D	E
VAULT & COVER ASSEMBLY	1730-12	12	17-1/4	30-1/4	28-3/16	15-3/16
VAULT & COVER ASSEMBLY	1730-18	18	17-1/8	30-1/8	28	15
VAULT & COVER ASSEMBLY	1730-24	24	17	30	27-3/4	14-3/4
VAULT & COVER ASSEMBLY	2436-18	18	23-5/8	35-1/4	33-3/15	21-9/16
VAULT & COVER ASSEMBLY	2436-24	24	23-3/8	34-15/16	32-13/16	21-5/16
VAULT & COVER ASSEMBLY	2436-30	30	23-1/2	35-1/8	32-3/4	21-1/8
VAULT & COVER ASSEMBLY	2436-36	36	23-3/16	34-11/16	32-7/16	20-15/16
VAULT & COVER ASSEMBLY	3048-18	18	29-7/16	46-15/16	44-1/2	27
VAULT & COVER ASSEMBLY	3048-24	24	29-5/16	46-13/16	44-1/4	26-3/4
VAULT & COVER ASSEMBLY	3048-36	36	29	46-1/2	44-1/8	26-5/8
VAULT & COVER ASSEMBLY	3060-24	24	33-3/8	61-1/4	58-7/16	30-9/16
VAULT & COVER ASSEMBLY	3060-30	30	33-1/4	61-1/8	58-5/16	30-7/16
VAULT & COVER ASSEMBLY	3060-36	36	33-1/16	60-15/16	58-3/16	30-5/16

OLDCASTLE POLYMER - OPEN BOTTOM UTILITY VAULT 3
1.6
SCALE: (ADDITIONAL DETAILS SEE 3.1/1.6)



**VAULT SECTION INTERIOR DETAIL
OPEN BOTTOM HANDHOLE** 3.1
1.6
SCALE: (ADDITIONAL DETAILS SEE 4/1.7 & 5/1.7)



TYPICAL VAULT INTERIOR DETAIL 4
1.6
SCALE: 1" = N.T.S.

STANDARD PLANS FOR CONSTRUCTION

VAULT DETAILS

CITY: CITY - TOWNSHIP RANGE SECTION(S): COUNTY: COUNTY CO., STATE
PLOT DATE: 6/11/2020 SCALE: AS SHOWN PROJECT NAME-FILENAME.DWG - TAB_SHEET # SHEET 1.6
CCLLC-DT00.DWG - DT01_1.6

DESIGNED BY: CCLLC FIELDLED BY: CCLLC
CHECKED BY: CCLLC DRAWN BY: CCLLC

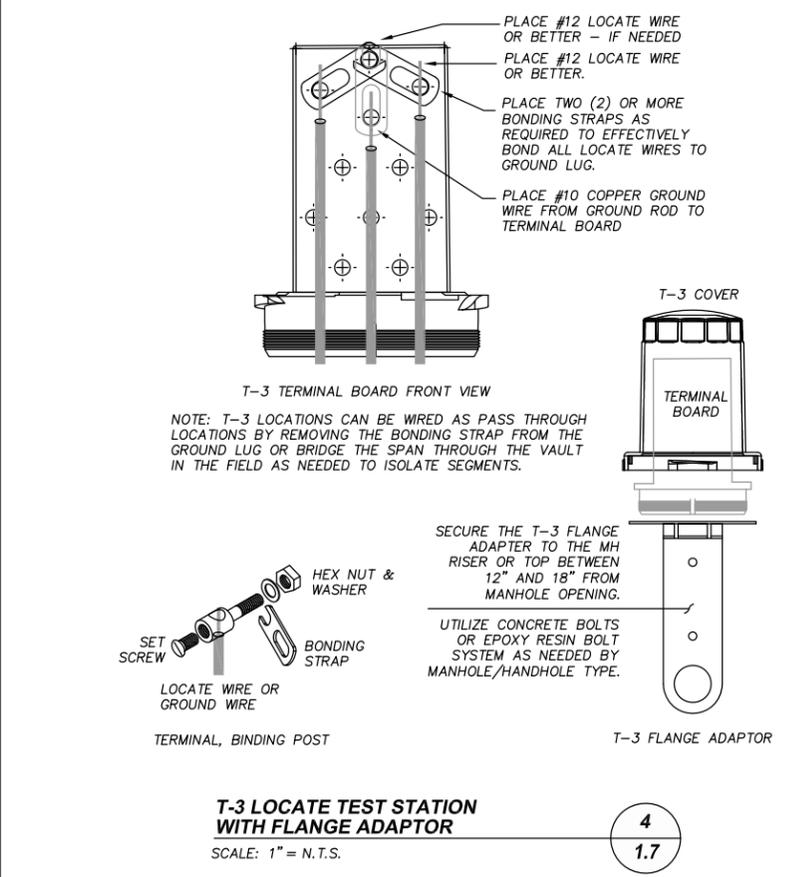
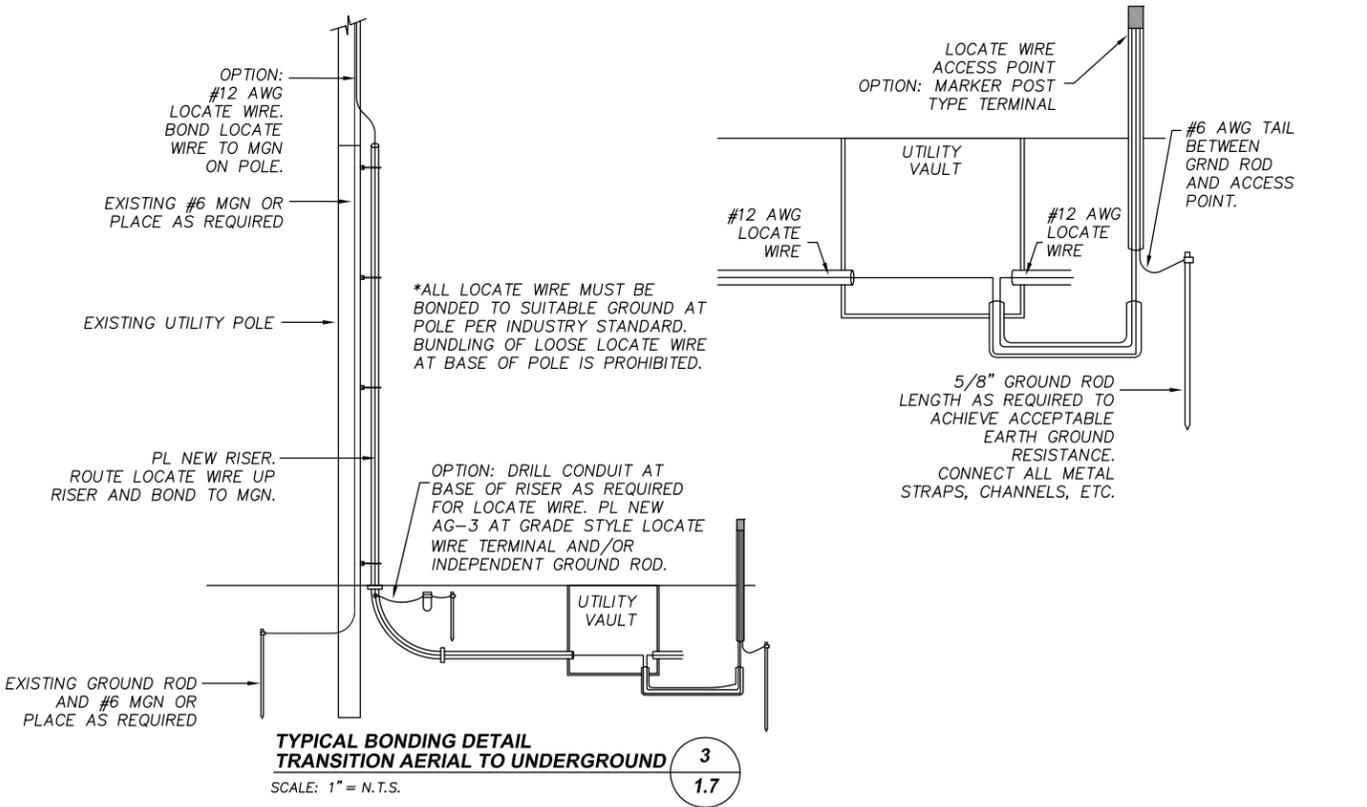
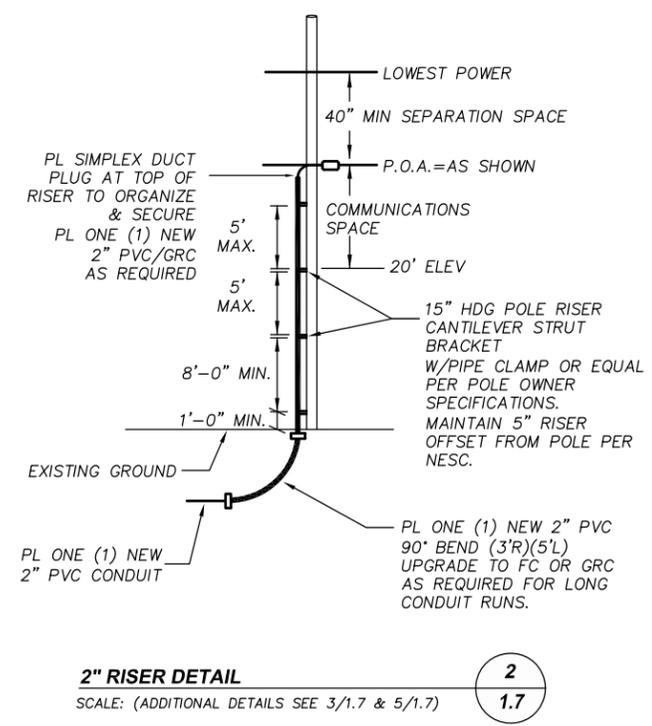
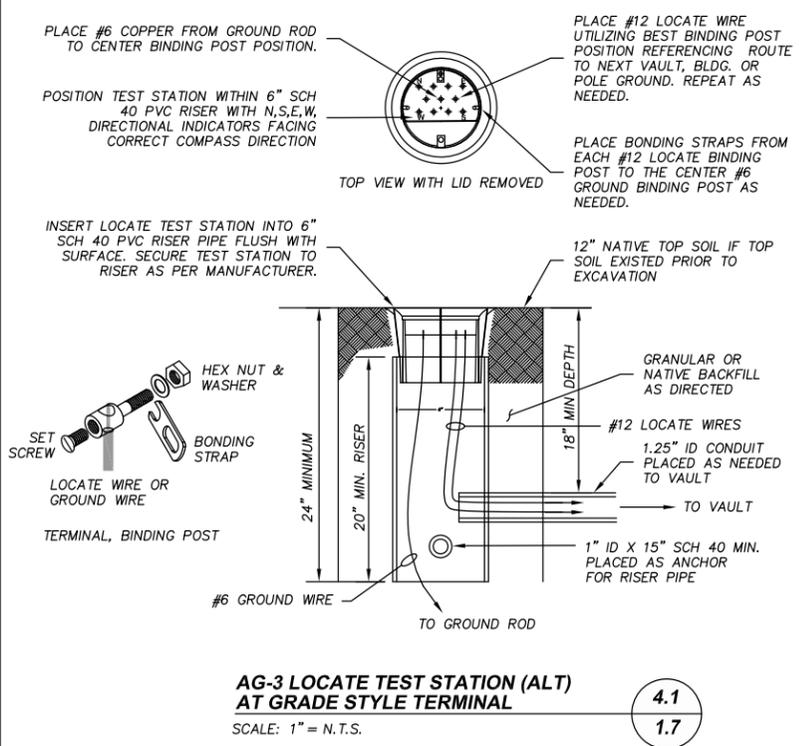
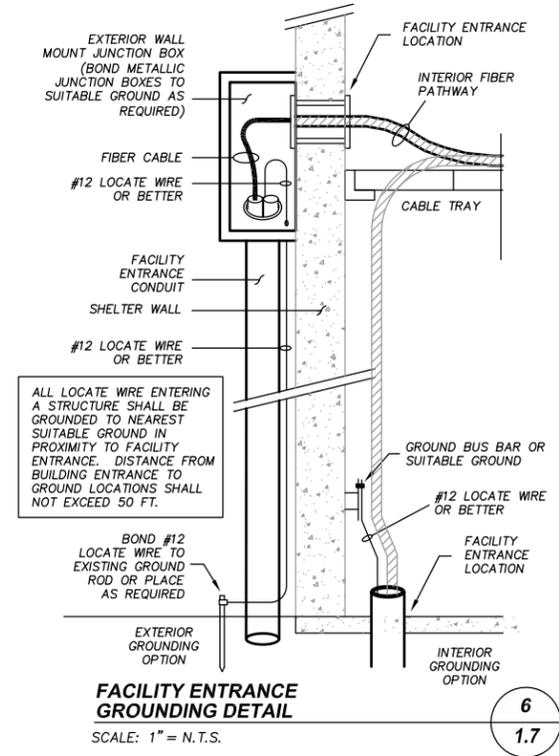
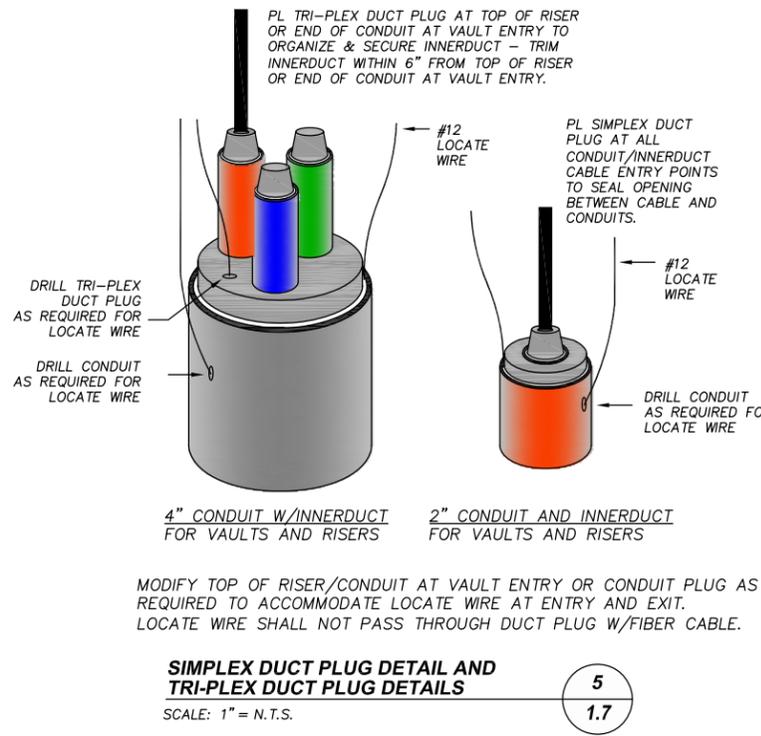
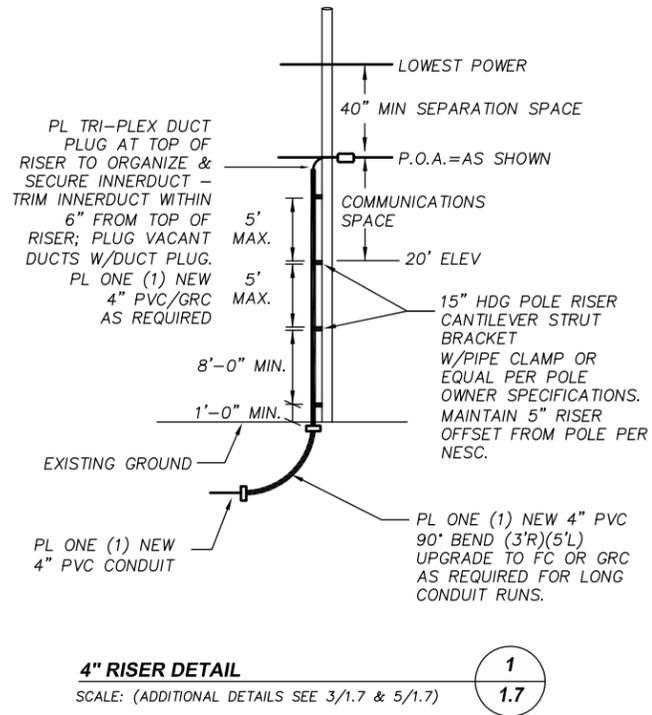
REV	DESCRIPTION	DATE	BY	APPR.

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Main Office:
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Plot Date: 11 Jun 2020, 11:17am By User: Owner
Drawing Name: E:\SUPPORT\CCLLC CAD STANDARDS\CCLLC CAD STANDARDS\CAD STANDARDS\CCLLC CONSULT\CCLLC-DT00.DWG Layout (If Any): dt01_1.6

SPECIFICATION SET



Plot Date: 28 Mar 2018, 1:30pm By User: Owner Drawing Name: E:\SUPPORT\CCLLC CAD STANDARDS\CCLLC CAD STANDARDS\CCLLC CONSULT\CCLLC-DT00.DWG Layout (If Any): dt02_1.7

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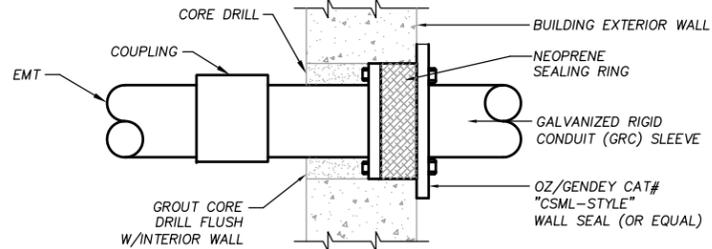
DESIGNED BY:	CCLLC	FIELD BY:	CCLLC
CHECKED BY:	CCLLC	DRAWN BY:	CCLLC
REVISIONS			
REV	DESCRIPTION	DATE	BY APPR.

STANDARD PLANS FOR CONSTRUCTION

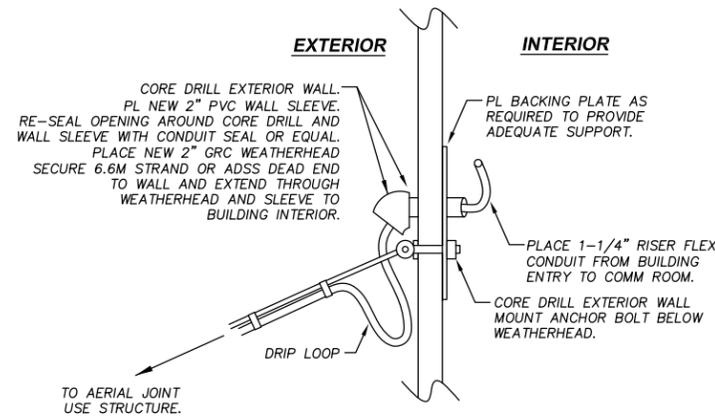
RISER DETAILS AND LOCATE WIRE / BONDING DETAILS

CITY: CITY - TOWNSHIP RANGE SECTION:		COUNTY: COUNTY CO., STATE	
PLOT DATE: 3/28/2018	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # CCLLC-DT00.DWG - DT02_1.7	SHEET 1.7

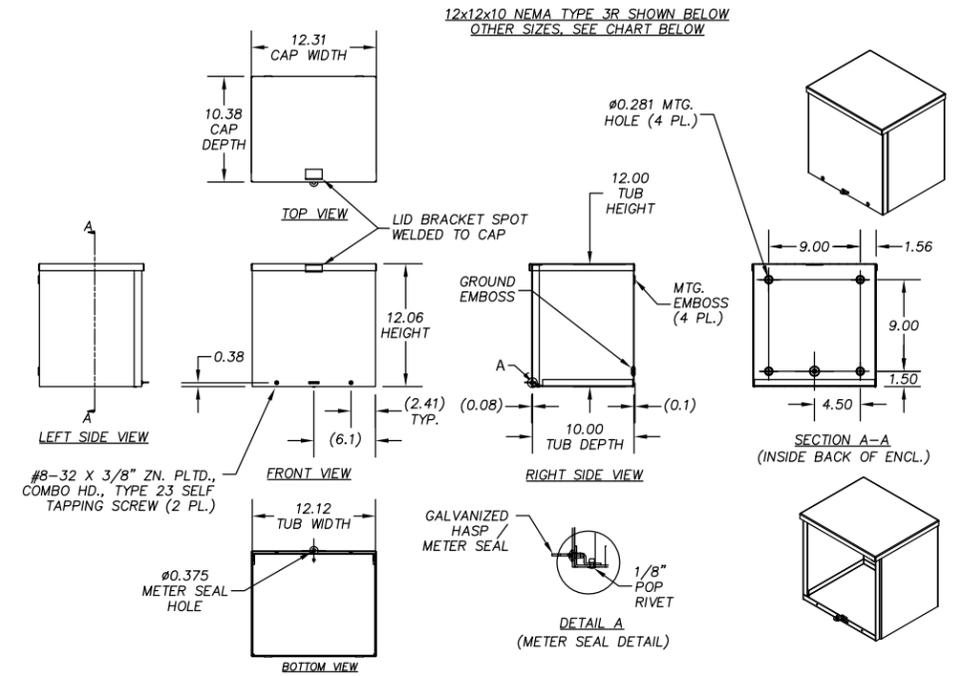
SPECIFICATION SET



BUILDING ENTRANCE - CONDUIT SEAL DETAIL (TYP) 1
SCALE: 1" = N.T.S.



BUILDING ATTACHMENT WITH WEATHERHEAD 2
SCALE: 1" = N.T.S.



PART NUMBER	BODY/DOOR STEEL GAUGE	ENCLOSURE SIZE H x W x D	KNOCKOUT PATTERNS
RSC121210	16/16	12x12x10 (305x305x254)	NO KNOCKOUTS
RSC242416	14/14	24x24x16 (610x610x406)	NO KNOCKOUTS
RSC363616	12/12	36x36x16 (914x914x406)	NO KNOCKOUTS

NEMA TYPE 3R ENCLOSURE 3
SCALE: 1" = N.T.S.

Plot Date: 25 Jun 2019, 7:41am By User: Owner Drawing Name: E:\SUPPORT\CLLC\CAD STANDARDS\CAD STANDARDS\CLLC CONSULT\CLLC-DT00.DWG Layout (If Any): dt01_1.8

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CHECKED BY: CCLLC	DRAWN BY: CCLLC			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

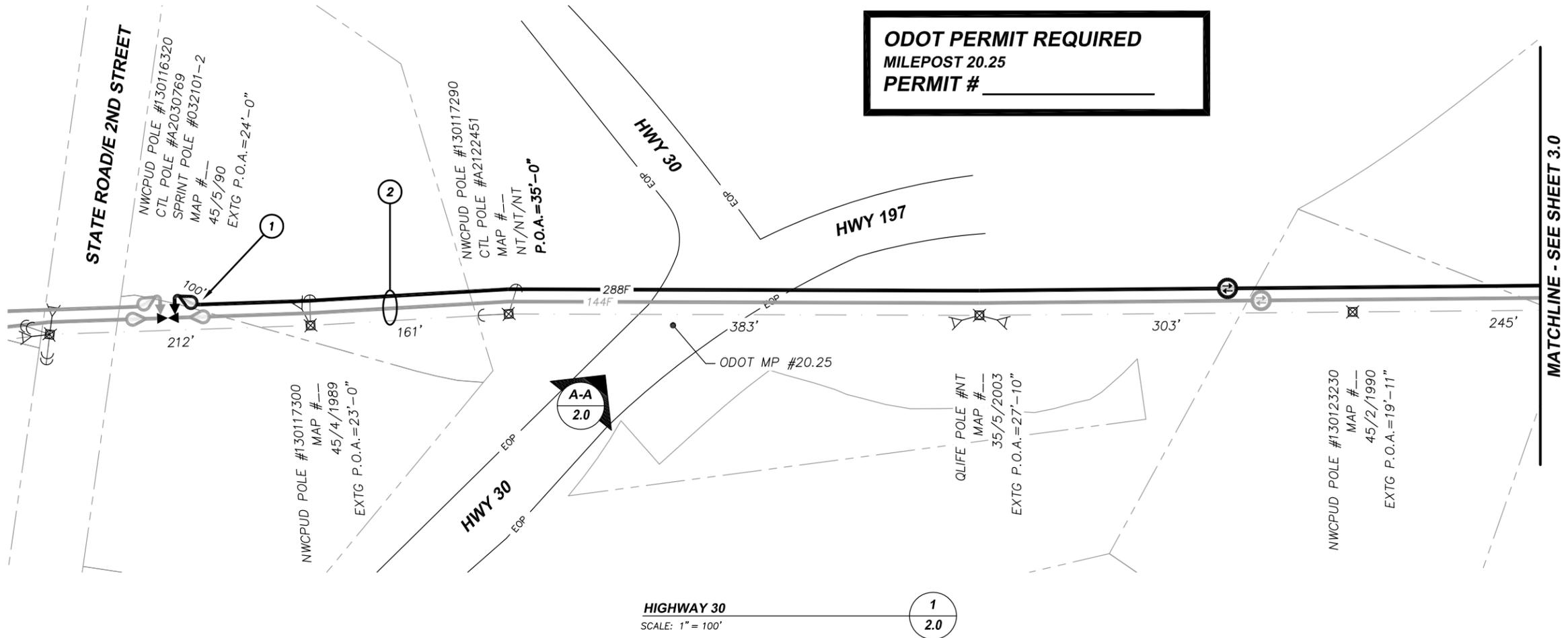
STANDARD PLANS FOR CONSTRUCTION

LOCK BOX ENCLOSURE DETAILS / BUILDING ENTRANCE DETAILS

CITY: CITY - TOWNSHIP RANGE SECTION(S): COUNTY: COUNTY CO., STATE

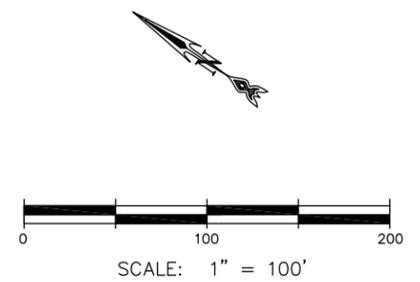
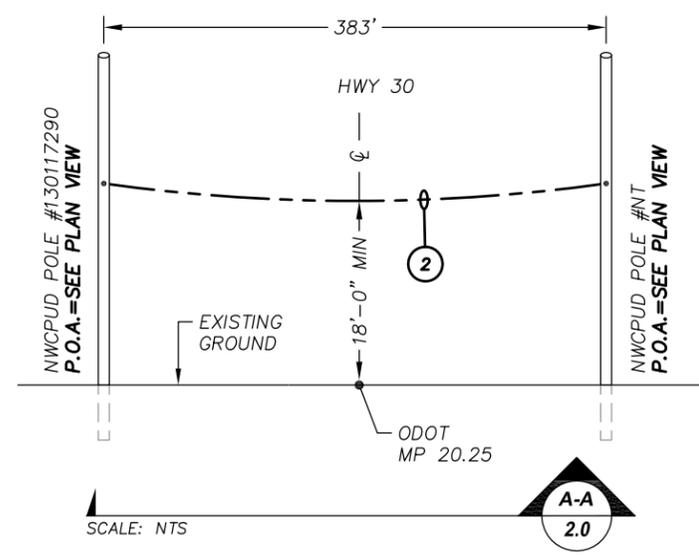
PLOT DATE: 6/25/2019	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # CCLLC-DT00.DWG - DT01_1.8	SHEET 1.8
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CONSTRUCTION SET



CONSTRUCTION NOTES

- ① EXISTING SPLICE LOCATION
LEAVE 100' SLACK STORAGE IN NEW 288F CABLE
- ② OVERLASH NEW 288F CABLE TO EXISTING STRAND & CABLE BOND EXISTING STRAND TO ALL AVAILABLE MGN VERTICALS ON EACH POLE IF NOT ALREADY PRESENT (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)



Plot Date: 20 Oct 2021, 12:56pm By User:jamesisaak Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_2.0

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DESIGNED BY:	A MANRIQUEZ	FIELD BY:	A MANRIQUEZ
CHECKED BY:	D MCNEELY	DRAWN BY:	J ISAAK
REVISIONS			
REV	DESCRIPTION	DATE	BY APPR.

DRY CANYON CABINET EXTENSION

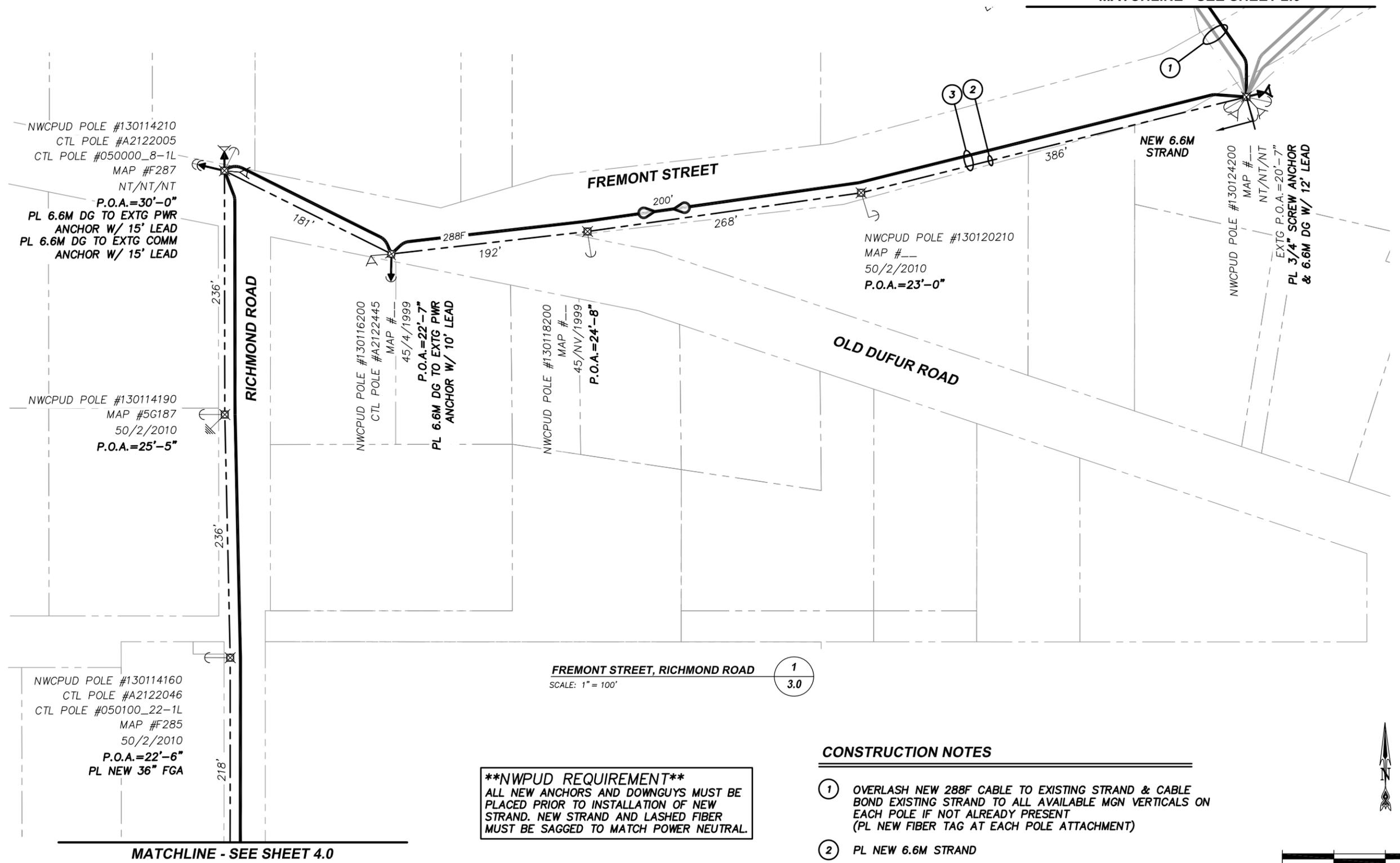
HIGHWAY 30

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_2.0	SHEET 2.0
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CONSTRUCTION SET

MATCHLINE - SEE SHEET 2.0



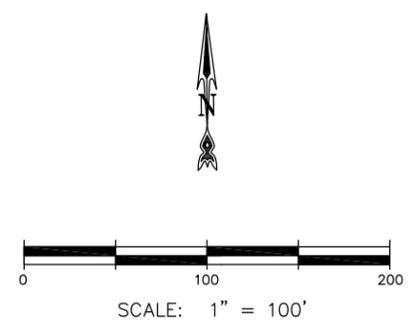
MATCHLINE - SEE SHEET 4.0

FREMONT STREET, RICHMOND ROAD
 SCALE: 1" = 100'

****NWPUD REQUIREMENT****
 ALL NEW ANCHORS AND DOWNGUYS MUST BE PLACED PRIOR TO INSTALLATION OF NEW STRAND. NEW STRAND AND LASHED FIBER MUST BE SAGGED TO MATCH POWER NEUTRAL.

CONSTRUCTION NOTES

- ① OVERLASH NEW 288F CABLE TO EXISTING STRAND & CABLE BOND EXISTING STRAND TO ALL AVAILABLE MGN VERTICALS ON EACH POLE IF NOT ALREADY PRESENT (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)
- ② PL NEW 6.6M STRAND
- ③ LASH NEW 288F CABLE TO NEW STRAND (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)



Plot Date: 20 Oct 2021, 1:14pm By User: jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_3.0

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CHECKED BY: D MCNEELY	DRAWN BY: J ISAAK			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

313 COURT STREET THE DALLES, OR 97058

DRY CANYON CABINET EXTENSION

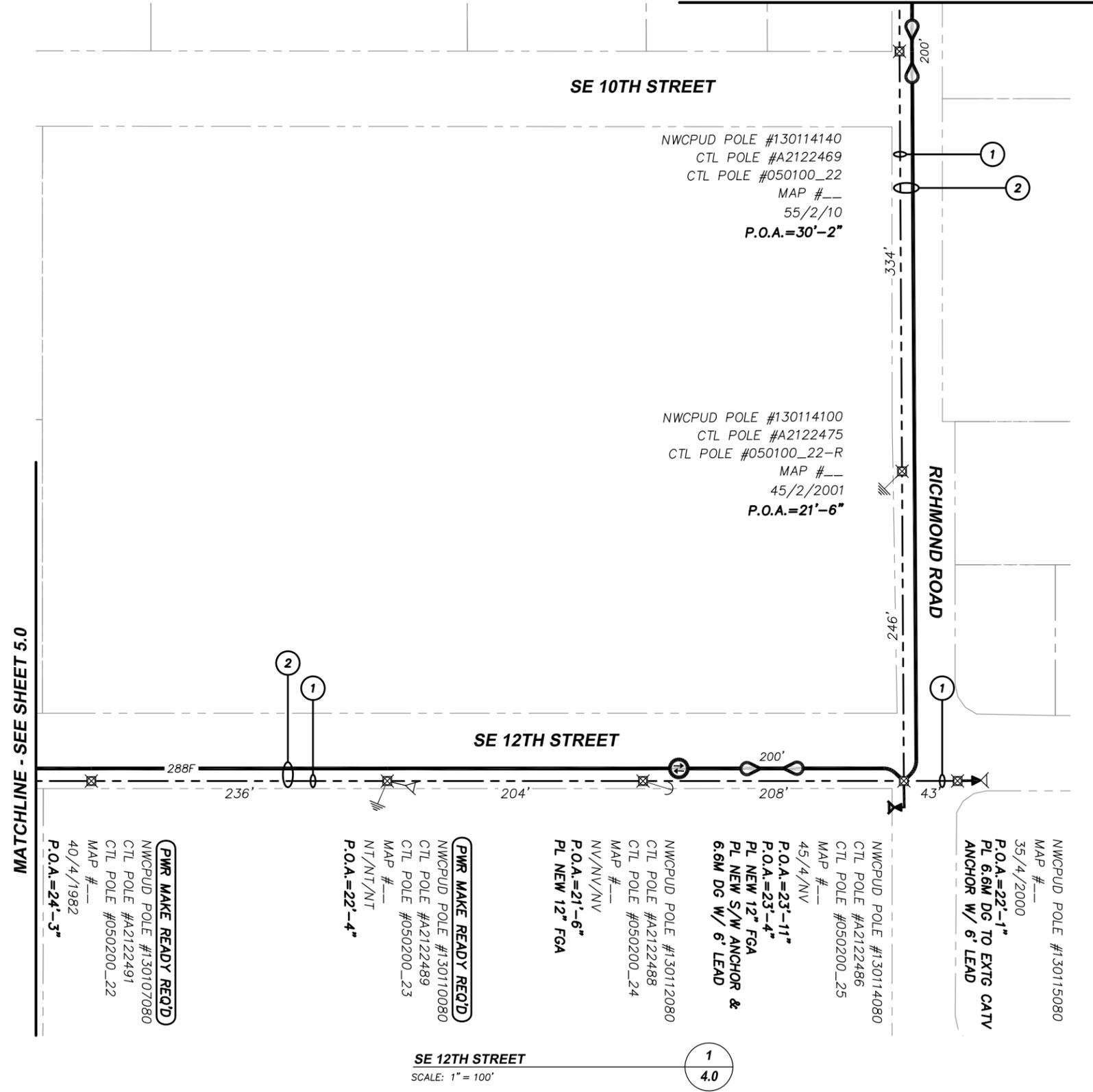
FREMONT STREET, RICHMOND ROAD

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_3.0	SHEET 3.0
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CONSTRUCTION SET

MATCHLINE - SEE SHEET 3.0



****NWPUD REQUIREMENT****
 ALL NEW ANCHORS AND DOWNGUYS MUST BE PLACED PRIOR TO INSTALLATION OF NEW STRAND. NEW STRAND AND LASHED FIBER MUST BE SAGGED TO MATCH POWER NEUTRAL.

CONSTRUCTION NOTES

- ① PL NEW 6.6M STRAND
- ② LASH NEW 288F CABLE TO NEW STRAND (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)

MATCHLINE - SEE SHEET 5.0

(PWR MAKE READY REQ'D)
 NWCPUD POLE #130107080
 CTL POLE #A2122491
 CTL POLE #050200_22
 MAP #___
 40/4/1982
 P.O.A.=24'-3"

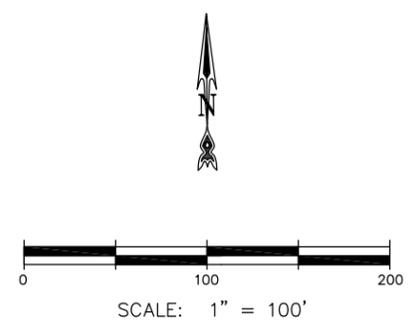
(PWR MAKE READY REQ'D)
 NWCPUD POLE #130110080
 CTL POLE #A2122489
 CTL POLE #050200_23
 MAP #___
 NT/NT/NT
 P.O.A.=22'-4"

NWCPUD POLE #130112080
 CTL POLE #A2122488
 CTL POLE #050200_24
 MAP #___
 NV/NV/NV
 P.O.A.=21'-6"
 PL NEW 12" FGA

NWCPUD POLE #130114080
 CTL POLE #A2122486
 CTL POLE #050200_25
 MAP #___
 45/4/NV
 P.O.A.=23'-11"
 P.O.A.=23'-4"
 PL NEW 12" FGA
 PL NEW S/W ANCHOR & 6.6M DG W/ 6' LEAD

NWCPUD POLE #130115080
 MAP #___
 35/4/2000
 P.O.A.=22'-1"
 PL 6.6M DG TO EXTG CATV ANCHOR W/ 6' LEAD

SE 12TH STREET
 SCALE: 1" = 100'



Plot Date: 20 Oct 2021, 1:16pm By User:jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_4.0

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DESIGNED BY: A MANRIQUEZ	FIELD BY: A MANRIQUEZ			
CHECKED BY: D MCNEELY	DRAWN BY: J ISAAK			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

313 COURT STREET THE DALLES, OR 97058

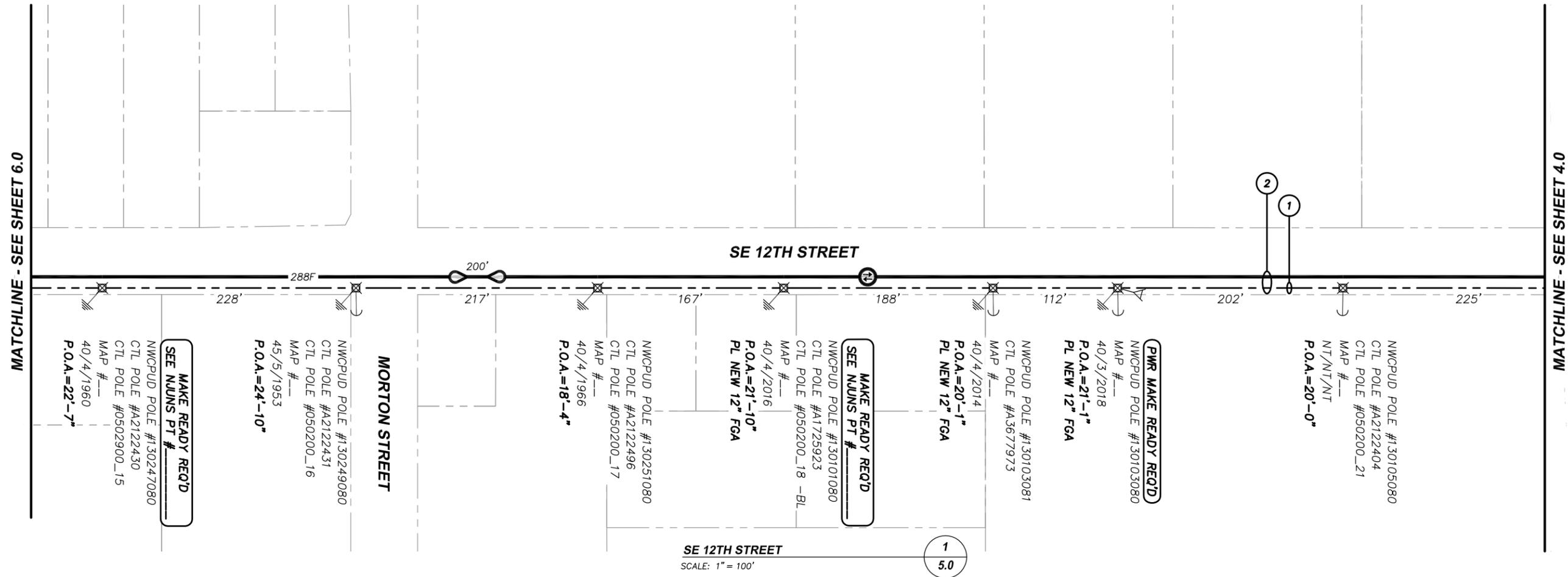
DRY CANYON CABINET EXTENSION

SE 12TH STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_4.0	SHEET 4.0
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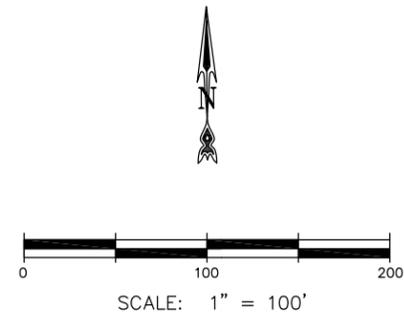
CONSTRUCTION SET



****NWPUD REQUIREMENT****
 ALL NEW ANCHORS AND DOWNGUYS MUST BE PLACED PRIOR TO INSTALLATION OF NEW STRAND. NEW STRAND AND LASHED FIBER MUST BE SAGGED TO MATCH POWER NEUTRAL.

CONSTRUCTION NOTES

- ① PL NEW 6.6M STRAND
- ② LASH NEW 288F CABLE TO NEW STRAND (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)



Plot Date: 20 Oct 2021, 12:57pm By User: jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_5.0

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DESIGNED BY: <u>A MANRIQUEZ</u>	FIELD BY: <u>A MANRIQUEZ</u>			
CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

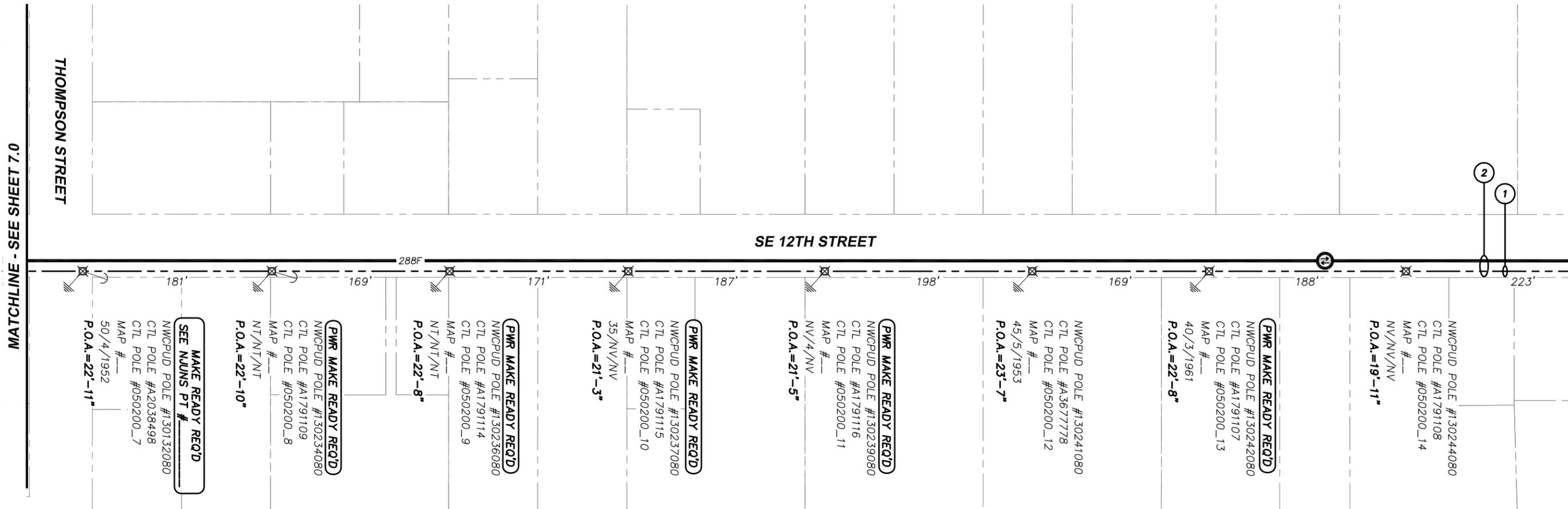
Q-LIFE NETWORK
 313 COURT STREET THE DALLES, OR 97058

DRY CANYON CABINET EXTENSION

SE 12TH STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON
 PLOT DATE: 10/20/2021 SCALE: AS SHOWN PROJECT NAME-FILENAME.DWG - TAB_SHEET # SHEET
 DRHCAB-AP00.DWG - AP01_5.0 **5.0**

CONSTRUCTION SET



MATCHLINE - SEE SHEET 7.0

MATCHLINE - SEE SHEET 5.0



****NWPUD REQUIREMENT****
 ALL NEW ANCHORS AND DOWNGUYS MUST BE PLACED PRIOR TO INSTALLATION OF NEW STRAND. NEW STRAND AND LASHED FIBER MUST BE SAGGED TO MATCH POWER NEUTRAL.

CONSTRUCTION NOTES

- ① PL NEW 6.6M STRAND
- ② LASH NEW 288F CABLE TO NEW STRAND (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)

Plot Date: 20 Oct 2021, 12:58pm By User: jamesisaak Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_6.0

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CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

313 COURT STREET THE DALLES, OR 97058

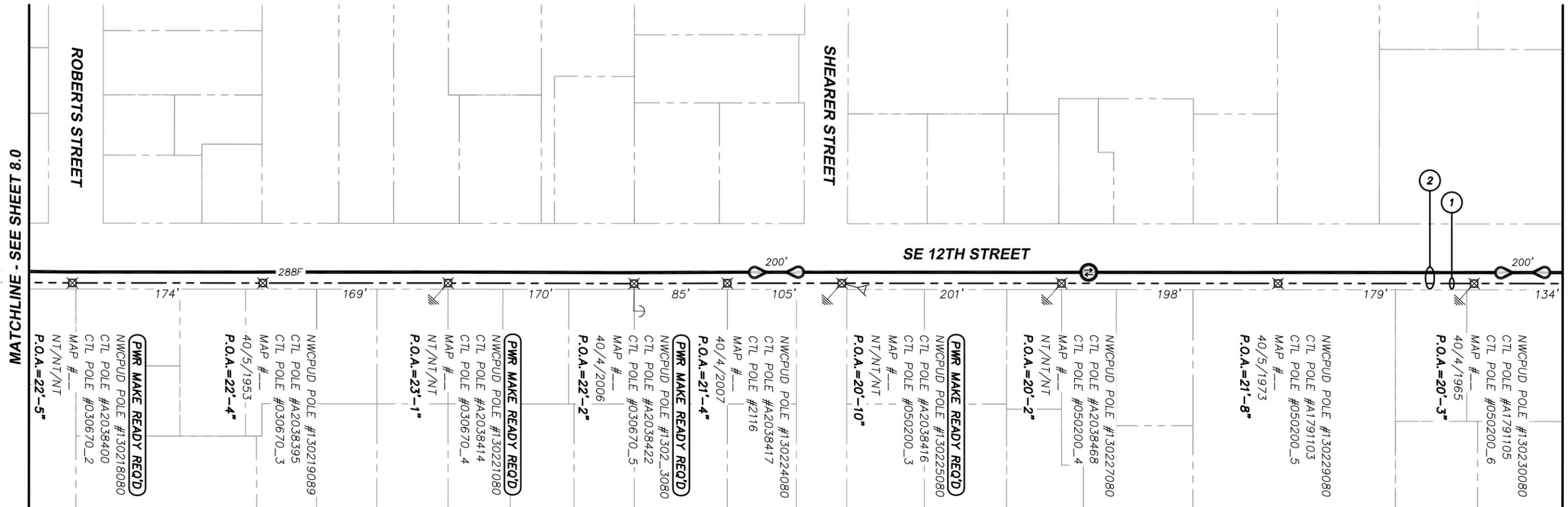
DRY CANYON CABINET EXTENSION

SE 12TH STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_6.0	SHEET 6.0
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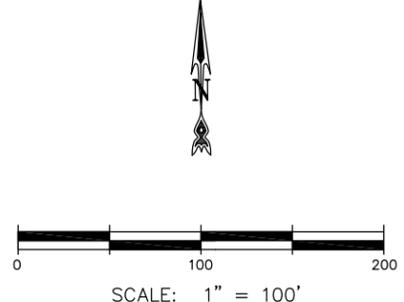
CONSTRUCTION SET



****NWPUD REQUIREMENT****
 ALL NEW ANCHORS AND DOWNGUYS MUST BE PLACED PRIOR TO INSTALLATION OF NEW STRAND. NEW STRAND AND LASHED FIBER MUST BE SAGGED TO MATCH POWER NEUTRAL.

CONSTRUCTION NOTES

- 1 PL NEW 6.6M STRAND
- 2 LASH NEW 288F CABLE TO NEW STRAND (PL NEW FIBER TAG AT EACH POLE ATTACHMENT)



Plot Date: 20 Oct 2021, 12:58pm By User: jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_7.0

811 Railroad Avenue
 Oregon City, Oregon 97045
 www.commstructureconsulting.com

Main Office:
 503.343.4134

DESIGNED BY: <u>A MANRIQUEZ</u>	FIELD BY: <u>A MANRIQUEZ</u>			
CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

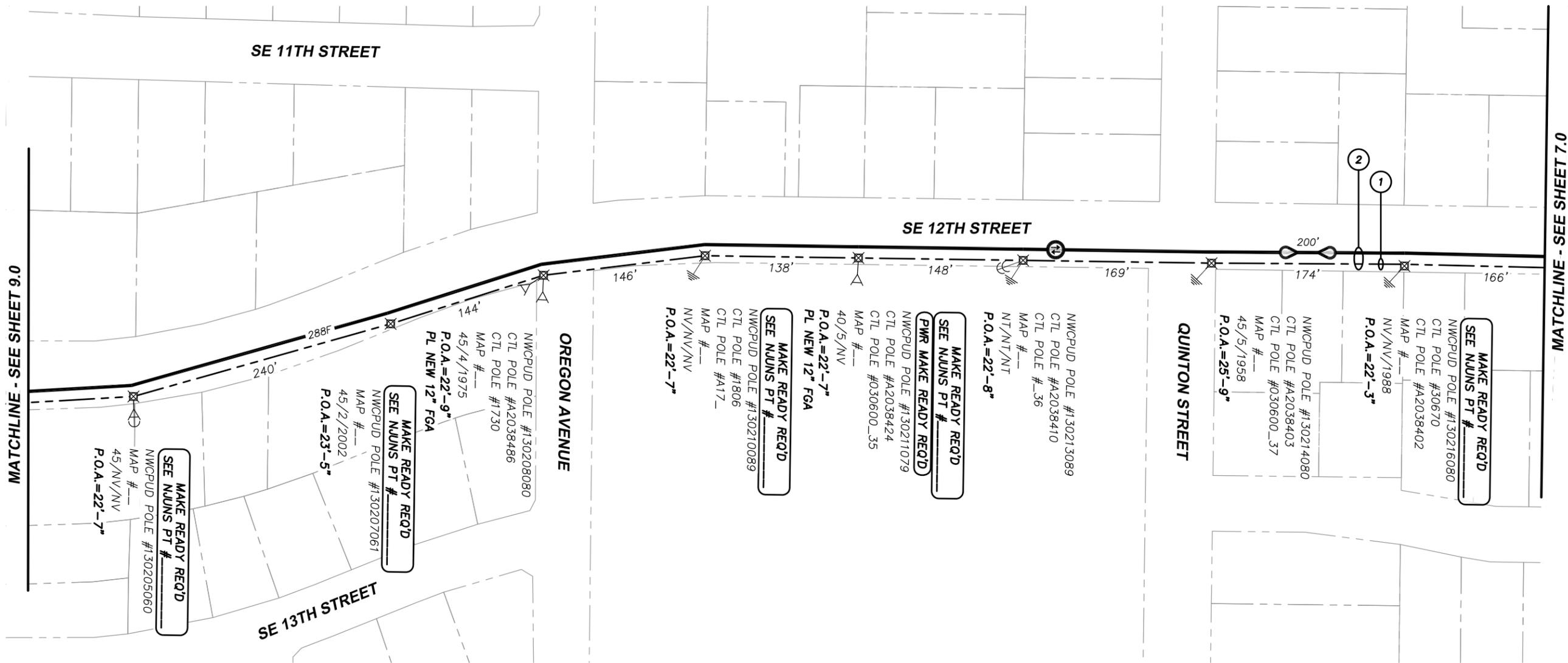
Q-LIFE NETWORK
 313 COURT STREET THE DALLES, OR 97058

DRY CANYON CABINET EXTENSION

SE 12TH STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON
 PLOT DATE: 10/20/2021 SCALE: AS SHOWN PROJECT NAME-FILENAME.DWG - TAB_SHEET # SHEET 7.0
 DRHCAB-AP00.DWG - AP01_7.0

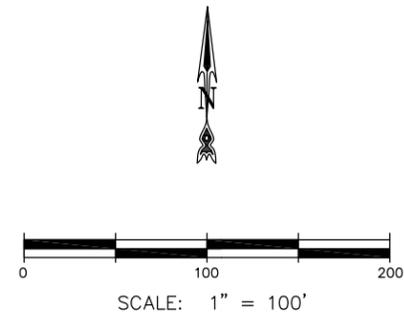
CONSTRUCTION SET



****NWPUD REQUIREMENT****
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CONSTRUCTION NOTES

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Plot Date: 20 Oct 2021, 12:58pm By User:jamesisaak Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_8.0

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CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

313 COURT STREET THE DALLES, OR 97058

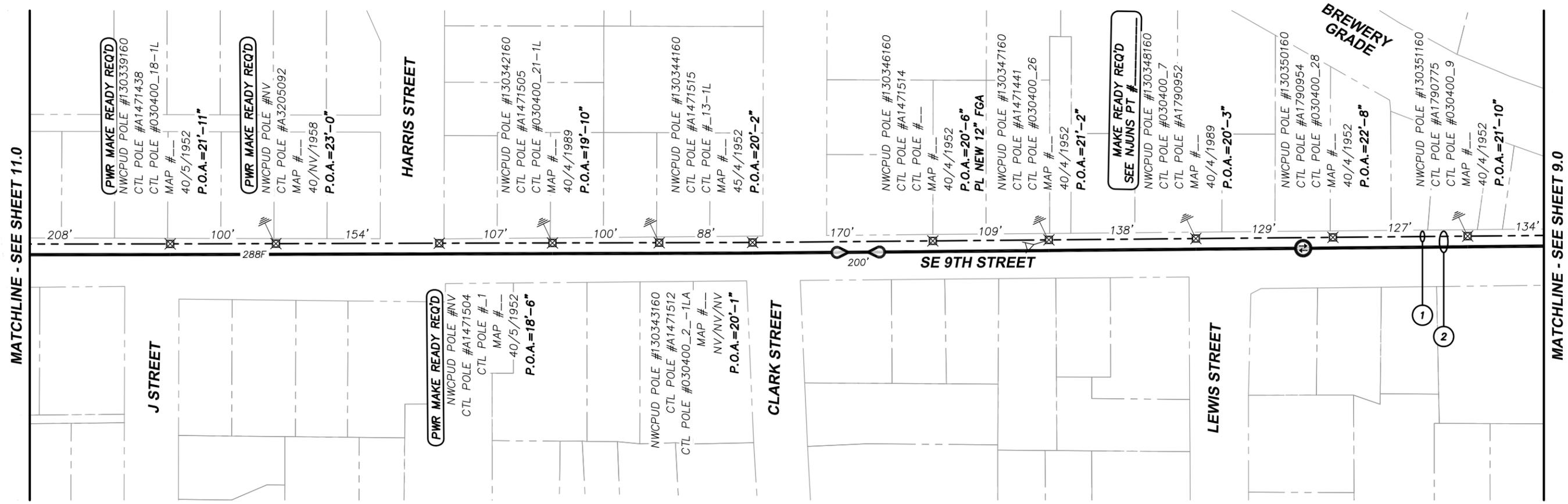
DRY CANYON CABINET EXTENSION

SE 12TH STREET

CITY: THE DALLES – TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021 SCALE: AS SHOWN PROJECT NAME-FILENAME.DWG – TAB_SHEET # SHEET 8.0

CONSTRUCTION SET

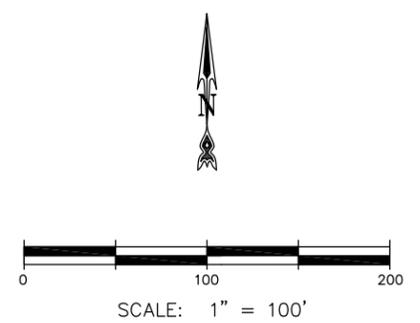


SE 9TH STREET, CLARK STREET
SCALE: 1" = 100'

****NWPUD REQUIREMENT****
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CONSTRUCTION NOTES

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Plot Date: 20 Oct 2021, 12:59pm By User: jamesisaak Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): APO1_10.0

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DESIGNED BY:	A MANRIQUEZ	FIELD BY:	A MANRIQUEZ
CHECKED BY:	D MCNEELY	DRAWN BY:	J ISAAK
REVISIONS			
REV	DESCRIPTION	DATE	BY APPR.

313 COURT STREET THE DALLES, OR 97058

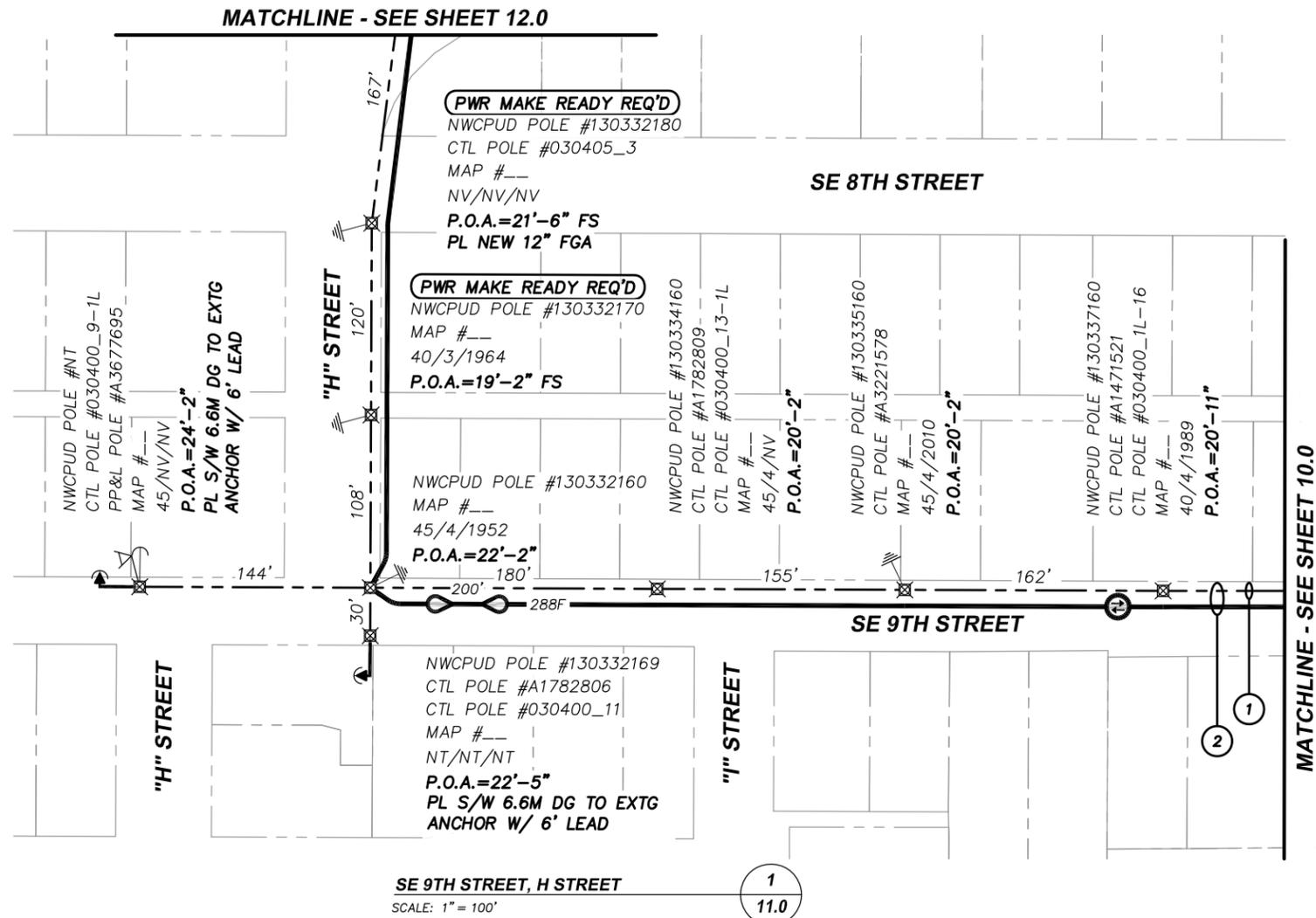
DRY CANYON CABINET EXTENSION

SE 9TH STREET, CLARK STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - APO1_10.0	SHEET 10.0
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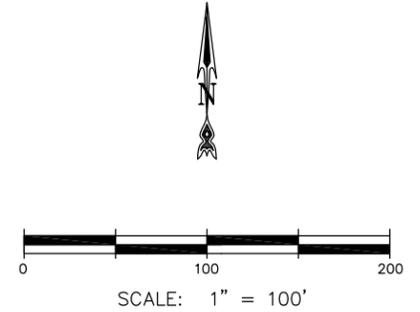
CONSTRUCTION SET



****NWPUD REQUIREMENT****
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Plot Date: 20 Oct 2021, 12:59pm By User: jamesisaak Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_11.0

811 Railroad Avenue
Oregon City, Oregon 97045
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DESIGNED BY: <u>A MANRIQUEZ</u>	FIELDER BY: <u>A MANRIQUEZ</u>			
CHECKED BY: <u>D MCNEELY</u>	DRAWN BY: <u>J ISAAK</u>			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.

Q-LIFE NETWORK

313 COURT STREET THE DALLES, OR 97058

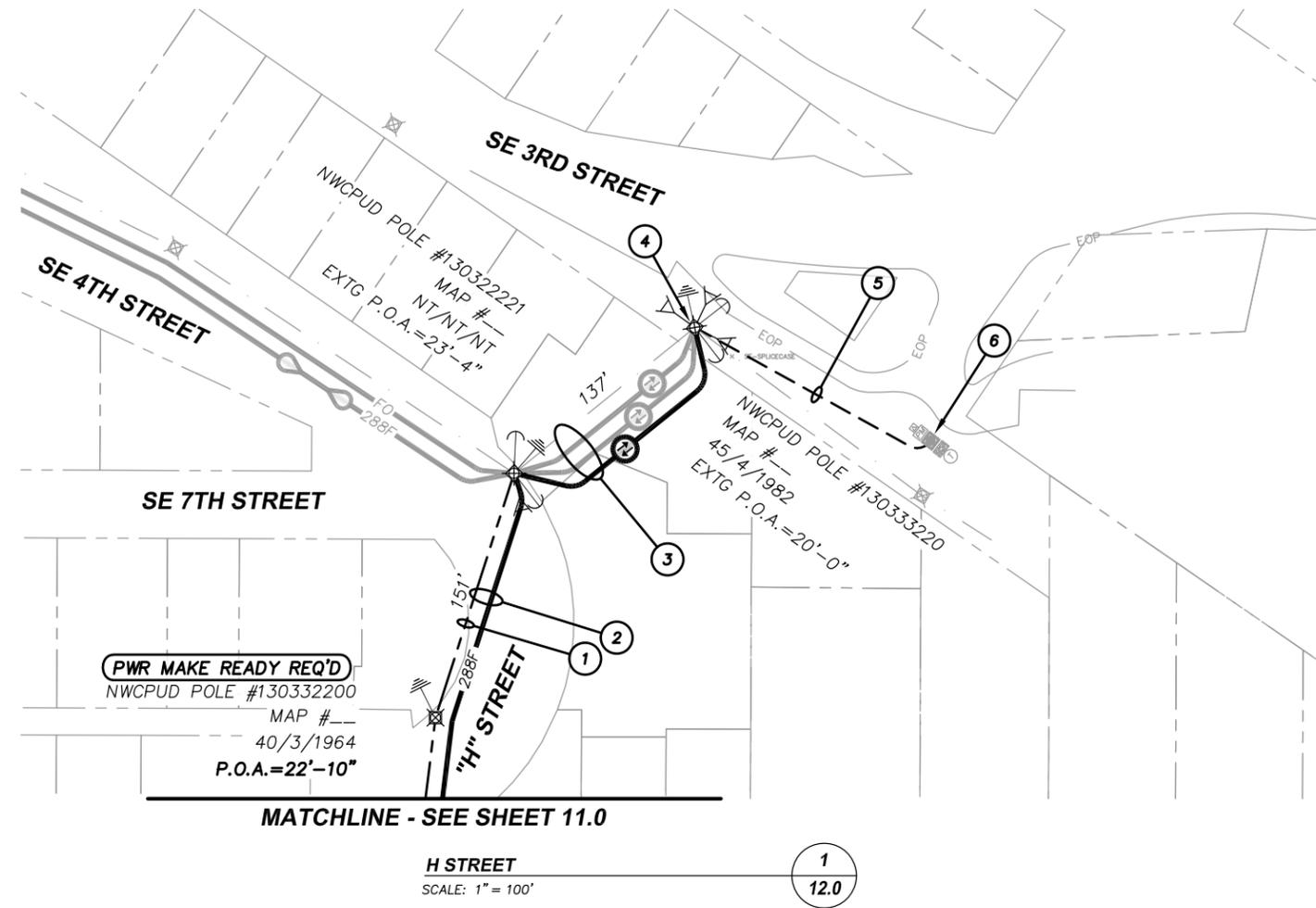
DRY CANYON CABINET EXTENSION

SE 9TH STREET, H STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03 COUNTY: WASCO CO., OREGON

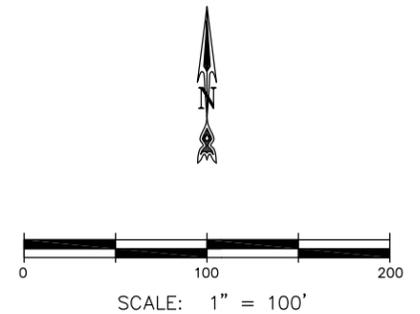
PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_11.0	SHEET 11.0
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CONSTRUCTION SET



CONSTRUCTION NOTES

- 1 PL NEW 6.6M STRAND
- 2 LASH NEW 288F CABLE TO NEW STRAND
(PL NEW FIBER TAG AT EACH POLE ATTACHMENT)
- 3 OVERLASH NEW 288F CABLE TO EXISTING STRAND & CABLE
(PL NEW FIBER TAG AT EACH POLE ATTACHMENT)
- 4 EXISTING RISER POLE NEWCPUD #13033220
PULL NEW 288F CABLE THROUGH 4" Q-LIFE RISER AND TRANSITION TO UNDERGROUND
- 5 EXISTING 4" CONDUIT
OVERPULL NEW 288F CABLE THROUGH CONDUIT
- 6 EXISTING Q-LIFE UTILITY VAULT - PROPOSED SPLICE LOCATION
LEAVE 100' SLACK STORAGE IN NEW 288F CABLE OR MATCH EXISTING



DESIGNED BY: A MANRIQUEZ	FIELD BY: A MANRIQUEZ			
CHECKED BY: D MCNEELY	DRAWN BY: J ISAAK			
REVISIONS				
REV	DESCRIPTION	DATE	BY	APPR.



DRY CANYON CABINET EXTENSION

H STREET

CITY: THE DALLES - TOWNSHIP 01 NORTH RANGE 13 EAST SECTION: 01, 02, 03		COUNTY: WASCO CO., OREGON	
PLOT DATE: 10/20/2021	SCALE: AS SHOWN	PROJECT NAME-FILENAME.DWG - TAB_SHEET # DRHCAB-AP00.DWG - AP01_12.0	SHEET 12.0

Plot Date: 20 Oct 2021, 1:19pm By User: jamesisaak
 Drawing Name: Z:\Q-LIFE\DRY HOLLOW CAB EXTENSION EAST\CAD\DRHCAB-AP00.DWG Layout (If Any): AP01_12.0

Aristo Networks LLC
Technical Management Report
By
John Amery
10/26/2021

Items of Interest:

- QLIFE damages.
 - No new damages to report.
- This month we have been focusing on outside plant maintenance
 - NJUNs tickets, repairs/fixes from audit, etc.
 - Bringing up Northsky to work tickets in bulk.
- FTTH options
 - Working with Administration on potential FTTH options



Executive Session
