



INVITATION TO BID #2017-55
SE Last Road Improvements
ADDENDUM NUMBER 1
August 21, 2017

On August 3rd, 2017, Clackamas County ("County") published Invitation to Bid #2017-55 ("BID"). The County has found that it is in its interest to amend the BID through the issuance of this Addendum #1. Except as expressly amended below, all other terms and conditions of the original BID and subsequent Addenda shall remain unchanged.

1. The following changes are made to the Project Bid Schedule:
 - Remove and replace the Project Bid Schedule with the attached Project Bid Schedule titled *Addendum #1 Bid Schedule* dated 8/21/17. **(Please note the following alterations):**

Original Bid Item Number 10 was in duplicate. The Project Bid Schedule was updated so the bid item numbers are all consecutive.

Added items:

<u>Number</u>	<u>Item</u>	<u>Unit</u>	<u>Quantity</u>
66	Topsoil	CY	200

2. The following changes are made to the Project Plans:

- Add the attached Plan sheet No. 10A of 16 (Sanitary Sewer Rehab on Last Rd)

These changes will be included in the Contract for this Project. It is understood that your Bid will be submitted accordingly.

Attachments: New Bid Schedule dated 8/21/2017
New Plan Sheets No. 10A of 16 (Sanitary Sewer Rehab on Last Rd)

End of Addendum #1

SE LAST ROAD PUBLIC IMPROVEMENTS**Bid Schedule #1 - Road Improvements**

Clackamas County Project #22231 - July 17, 2017

ITEM	SPEC	DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
Part 00100 - General Conditions						
1	00196	Extra Work as Authorized	FA	1	-	\$ 15,000.00
Part 00200 - Temporary Features and Appurtenances						
2	00210	Mobilization	LS	1		
3	00225	Temporary Protection and Direction of Traffic	LS	1		
4	00225	Temporary Signs - Business Access and Traffic Zone	SQFT	250		
5	00225	Temporary Barricades, Type 2	EACH	3		
6	00225	Temporary Delineators	EACH	50		
7	00225	Flaggers	HR	400		
8	00280	Erosion Control	LS	1		
9	00280	Matting, Type A (Geojute)	SY	366		
10	00280	Check Dam, Type 1	EACH	2		
11	00280	Construction Entrance, Type 1	EACH	1		
12	00280	Sediment Fence, Unsupported	LF	50		
13	00280	Inlet Protection, Type 3	EACH	7		
14	00280	Compost Filter Sock, 12 inch	FOOT	250		
15	00290	Pollution Control Plan	LS	1		
Part 00300 - Roadwork						
16	00305	Construction Survey Work	LS	1		
17	00310	Removal of Structures and Obstructions	LS	1		
18	00310	Asphalt Pavement Saw Cutting	LF	1,445		
19	00310	Concrete Pavement Saw Cutting	LF	860		
20	00320	Clearing and Grubbing	LS	1		
21	00330	General Excavation	CY	975		
22	00350	Riprap Geotextile, Type 1, woven	SQYD	35		
23	00370	Subgrade Geotextile (Separation), woven	SQYD	895		
24	00390	Rip-Rap Basins, Class 50, 10' x 7' x 1.5'	EACH	1		
Part 00400 - Drainage and Sewers						
25	00415	Main Line Storm Video Inspection	FOOT	335		
26	00445	12 Inch Storm Pipe, 5 feet Depth	FOOT	282		
27	00445	12 Inch Storm Pipe, 10 feet Depth	FOOT	50		
28	00446	Trench Drain, Type 2	FOOT	60		
29	00470	Concrete Manholes, 48 Inch Storm	EACH	1		
30	00470	Concrete GB-2 Inlet Catch Basin	EACH	1		
31	00490	Major Adjustment of Manholes	EACH	1		
32	00490	Minor Adjustment of Manholes	EACH	4		
33	00490	Adjusting Boxes and Valves	EACH	8		
34	00495	Trench Resurfacing	SQYD	90		
Part 00600 - Bases						
35	00620	Cold Plane Pavement Removal, 0-2" Deep	SQYD	275		
36	00640	Aggregate Base 3/4"-0	TON	295		
37	00640	Aggregate Base 1 1/2"-0	TON	445		
Part 00700 - Wearing Surfaces						
38	00744	HMAC Level 2, 3/4 Inch Dense PG 64-22 ACP Mixture	TON	600		
39	00749	Extra for Asphalt Approaches	EACH	1		
40	00759	Concrete Curbs, Curb and Gutter	FOOT	60		
41	00759	Thickened Concrete Low Profile Curb	FOOT	505		
42	00759	Concrete Curbs, Standard Type "C" Curb (driveway), 1" lip	FOOT	50		

SE LAST ROAD PUBLIC IMPROVEMENTS**Bid Schedule #1 - Road Improvements**

Clackamas County Project #22231 - July 17, 2017

ITEM	SPEC	DESCRIPTION	UNIT	QUAN.	UNIT PRICE	TOTAL
43	00759	Concrete Walks	SF	7,060		
44	00759	Concrete Walks (Reinforced)	SF	215		
45	00759	Concrete Driveway Connections (Reinforced)	SF	1,070		
46	00759	Extra for New Sidewalk Ramps	EACH	1		
47	00759	Bentonite (waterline crossing swale), hydrated	CF	58		
48	00759	Extra for New Sidewalk Ramps (Reinforced)	EACH	1		
Part 00800 - Permanent Traffic Safety and Guidance Devices						
49	00865	Methyl Methacrylate, Extruded, Non-Profile, 90 ml	FOOT	320		
50	00867	Pavement Bar, Type AB	SQFT	28		
Part 00900 - Permanent Traffic Control and Illumination Systems						
51	00905	Remove and Replace Existing Signs	LS	1		
52	00930	Perforated Steel Square Tube Anchor Sign Supports	LS	1		
Part 01000 - Right of Way Development and Control						
53	01012	Water Quality Swale, Last Road	LS	1		
54	01030	Water Quality Seeding (Hydroseeding) Swale	ACRE	0.20		
55	01030	Lawn Seeding (Hydroseeding) disturbed soils	ACRE	0.20		
56	01030	Weed Control	ACRE	0.24		
57	01030	Seed Mobilization	EACH	2		
58	01030	Fertilizing	ACRE	0.07		
59	01030	Hydromulch	ACRE	0.07		
60	01030	Compost Blanket (nominal thickness of 3")	CY	70		
61	01040	Top Soil testing	EACH	2		
62	01040	Top Soil Infiltration Testing, up to four tests	EACH	4		
63	01040	Groundcover, No. 4 Container	EACH	615		
64	01040	Deciduous Trees, 2" Caliper	EACH	15		
Part 01100 - Water Supply Systems						
65	01120	Irrigation System Repair	LS	1		
66	01040	Topsoil	CY	200		

Total Bid Price =

TOTAL BID PRICE

#1: FOR ROAD
IMPROVEMENTS

(In Words)

TOTAL BID PRICE

#2: FOR SAN.

SEWER
IMPROVEMENTS

(In Words)

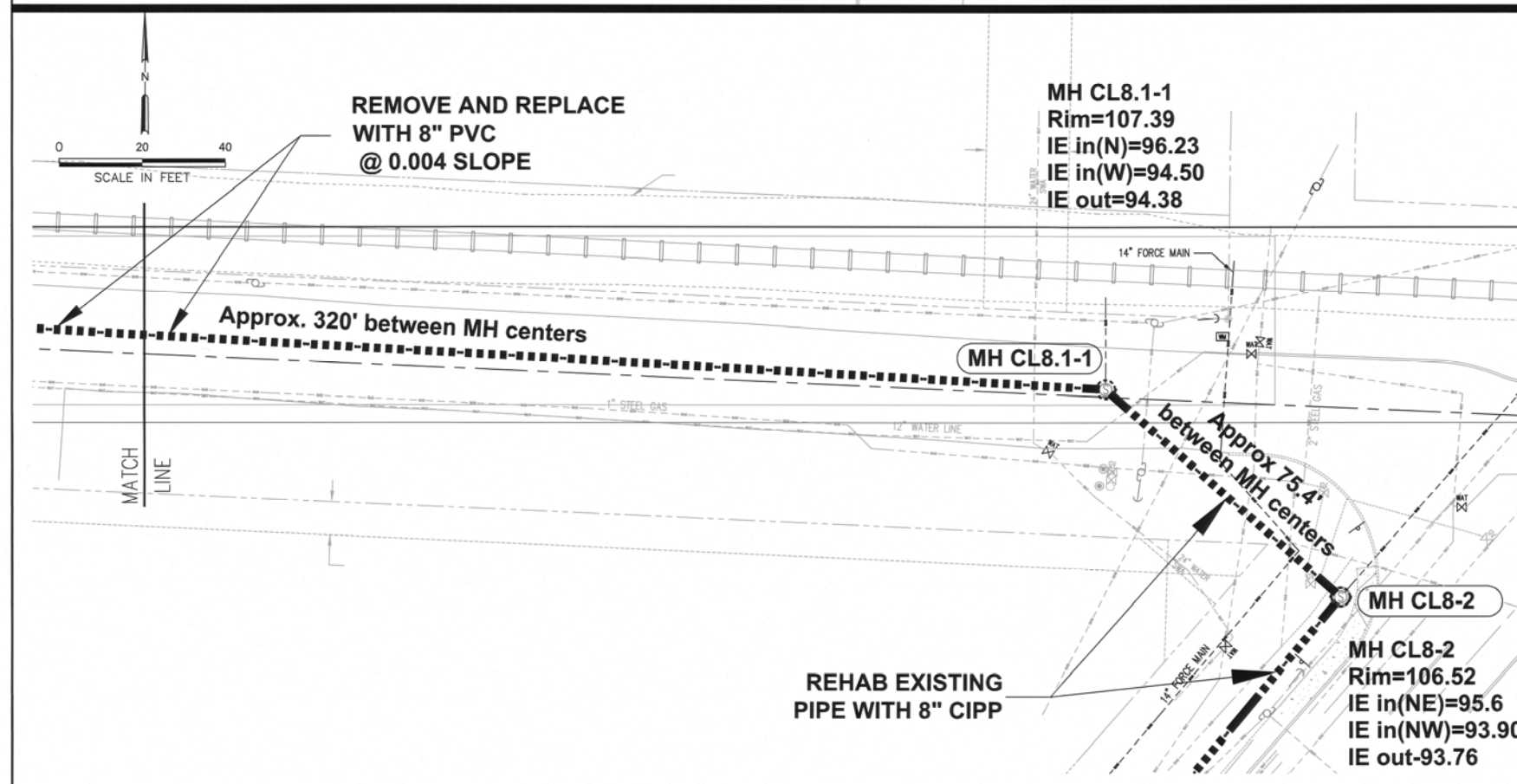
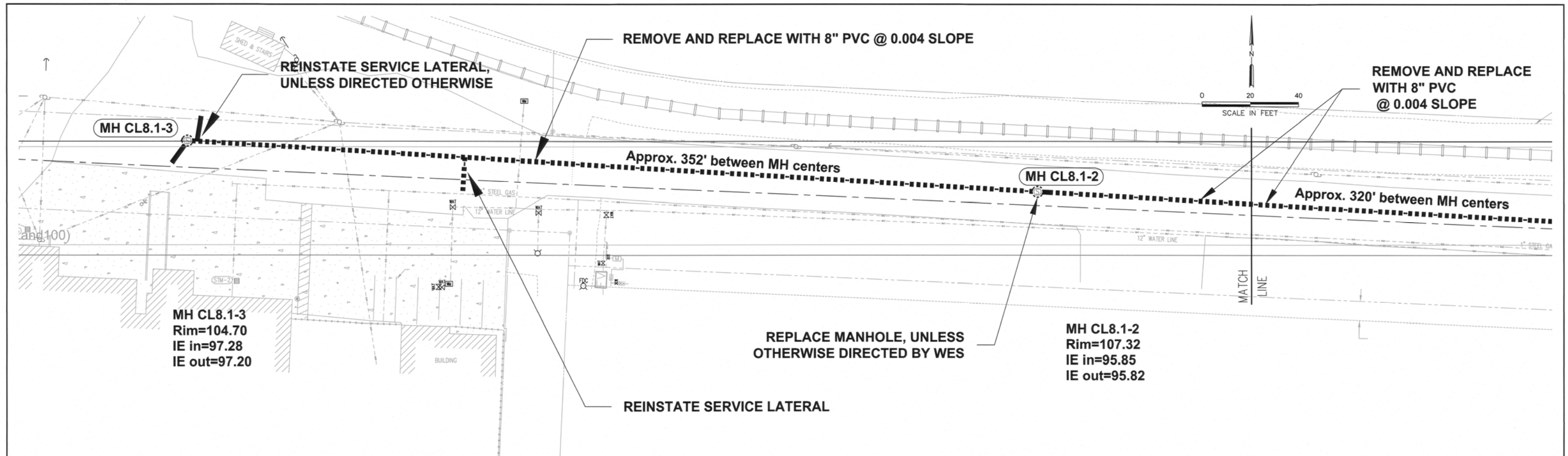
TOTAL BID PRICE:

FOR #1 AND #2

BID SCHEDULES

(In Words)

CONTRACTOR:



SANITARY SEWER NOTES:

- ALL NOTES ON BOTH SHEETS C-1 AND C-2 APPLY TO ALL THE WORK REQUIRED ON EACH DRAWING.
- ALL WORK IS TO CONFORM TO CLACKAMAS COUNTY SERVICE DISTRICT NO. 1 (CCSD#1) SANITARY STANDARDS, AND AS MODIFIED HEREIN OR IN SPECIAL PROVISIONS PERTAINING TO SANITARY SEWER WORK.
- ALL SANITARY SEWER FLOWS SHALL BE MAINTAINED WITHOUT INTERRUPTION, FOR EXISTING CUSTOMERS, UTILIZING AN APPROVED FLOW BYPASS PLAN THAT INCLUDES:
 - A FULLY REDUNDANT AND AUTOMATED SEWAGE PUMPING SYSTEM
 - AN AUTO-DIAL ALARM SYSTEM THAT WILL AUTOMATICALLY CALL 24/7/365 CONTRACTOR RESPONSE CELL NUMBER, AS WELL AS IDENTIFIED WES EMERGENCY CELL NUMBERS
 - A SYSTEM THAT DOES NOT IMPEDE TRAFFIC FLOW
- THE EXISTING 8" CONCRETE PIPELINES BETWEEN MANHOLES CL8.1-1 AND CL8-2, BETWEEN CL8-2 AND CL8-1 AND BETWEEN CL8-1 AND CL505 ARE TO RECEIVE A CURED-IN-PLACE-PIPE (CIPP), AS APPROVED. THE CONTRACTOR AND/OR SUBCONTRACTOR INSTALLING THE CIPP SHALL HAVE A CURRENT LICENSE AGREEMENT WITH THE PRODUCT MANUFACTURER AND THE INDIVIDUALS INSTALLING THE CIPP SHALL BE CERTIFIED BY THE PRODUCT MANUFACTURER. SEE SPECIFICATION SECTION 02775.
- AFTER APPROVED BYPASS IS IN PLACE, EXISTING LINE HAS BEEN CLEANED AND PREPARED IN CONFORMANCE WITH CURED-IN-PLACE-PIPE (CIPP) MANUFACTURERS STRICTEST RECOMMENDATIONS, CIPP IS TO BE INSTALLED BETWEEN MANHOLE CL8.1-1 ALL THE WAY TO MANHOLE CL505. CIPP SHALL HAVE HYDROPHILIC END SEALS INSTALLED PER MANUFACTURERS STRICTEST RECOMMENDATIONS IN PIPE TERMINATION AT EACH MANHOLE, LMK TECHNOLOGIES INSIGNIA, OR APPROVED EQUAL. CIPP INSTALLATION SHALL MEET STRICTEST RECOMMENDATIONS OF PIPE MANUFACTURER AND ASTM F1216 OR F1743 (AS RELEVANT TO THE TYPE OF CIPP INSTALLED). THIS INCLUDES ANY CORRECTION FOR DEFECTIVE WORK.
- A RECORDED PRE- AND POST-INSTALLATION CCTV WILL BE REQUIRED TO CONFIRM PROPER PREPARATION FOR AND INSTALLATION OF CIPP, WITNESSED LIVE BY WES REPRESENTATIVE.
- ALL EXISTING PIPE BETWEEN MANHOLE CL8.1-1 AND MANHOLE CL8.1-3 SHALL BE REPLACED WITH NEW ASTM D-3034 SDR 35 PVC PIPE, LAID AT A SLOPE OF 0.0040, OR AS DIRECTED. SEE SPECIFICATION SECTION 02720.
- MANHOLE CL8.1-2 WILL, BY DEFAULT, BE REPLACED - UNLESS ENGINEER DETERMINES THAT CONDITION OF EXISTING MANHOLE WILL BE ACCEPTABLE FOR RE-USE.
- ALL CONNECTIONS OF NEW PVC PIPE INTO MANHOLES SHALL BE MADE WITH A PROPERLY SIZED CORE IN MANHOLE WALL AND AN ELASTOMERIC GASKET OR FLEXIBLE SLEEVE CONFORMING TO ASTM C923 (KOR-N-SEAL OR EQUAL). THIS INCLUDES THE NEW INLET INTO EXISTING MANHOLE CL8.1-1 AND THE NEW OUTLET FROM EXISTING MANHOLE CL8.1-3.
- ANY INFILTRATION LEAKS INTO SANITARY MANHOLES IN THIS PROJECT, OR ANY INFILTRATION COMING INTO SYSTEM FROM ANNULAR SPACE BETWEEN CIPP AND HOST PIPE IS TO BE FULLY SEALED USING A CHEMICAL GROUT, AVANTI AV-100 OR APPROVED EQUAL.
- ALL EXCAVATED AND REMOVED MATERIALS SHALL BE PROPERLY DISPOSED OF OFF SITE AT CONTRACTOR'S EXPENSE.
- ADJUST ALL MANHOLES TO MATCH GRADES AND SLOPES OF FINAL ROADWAY SURFACE.
- ALL TRENCH BACKFILL IS TO BE CLASS C GRANULAR BACKFILL, FULLY COMPACTED AS SPECIFIED. AFTER TRENCH BACKFILL CONSTRUCTION IS COMPLETED AND APPROVED - DAMAGED EXISTING PAVEMENT AT EDGES OF TRENCH ARE TO BE REMOVED AND ASPHALT PAVEMENT REPLACED IN THICKNESS EQUAL TO EXISTING, OR 4 INCHES, WHICHEVER IS GREATER. IN AREAS NOT SCHEDULED FOR AN ADDITIONAL LIFT OF PAVEMENT ABOVE EXISTING GRADE, SAWCUT EDGES BACK PER T-CUT DETAIL U200 ON SHEET 15, BEFORE PLACING NEW PAVEMENT. ASPHALTIC PAVEMENT MATERIAL, INSTALLATION AND COMPACTION TO MEET THAT SPECIFIED FOR OTHER PAVEMENT WORK ON THIS PROJECT.
- ALL COSTS FOR WORK STIPULATED IS TO BE PER LISTED BID ITEMS. FOR ANY WORK REQUIRED WITHOUT A SEPARATE BID ITEM LISTED, CONTRACTOR IS TO INCORPORATE THE COST OF THAT WORK INTO THE BID ITEMS LISTED.
- A WES REPRESENTATIVE IS TO WITNESS ALL ACCEPTANCE TESTS, INCLUDING COMPACTION, MANDREL AND AIR TESTS.



NO.	DATE	BY	REVISIONS
0	6/17	DK	ISSUED FOR BIDDING

DESIGNED BY:	DK	DRAWN BY:	DK
CHECKED BY:	JS	SCALE:	N.T.S.
DATE:	JUNE 2017		
PROJECT NO:	P112215		



LAST ROAD – PUBLIC IMPROVEMENTS
CLACKAMAS, OREGON

SANITARY SEWER REHAB – ON LAST ROAD

DRAWING NO.
C-1

SHEET NO.
10A OF 16