

CITY OF TILLAMOOK SEWER REHABILITATION PROJECT #2

TILLAMOOK, OREGON
CDBG PROJECT NO. P13013
JULY 2016 - BID DOCUMENTS

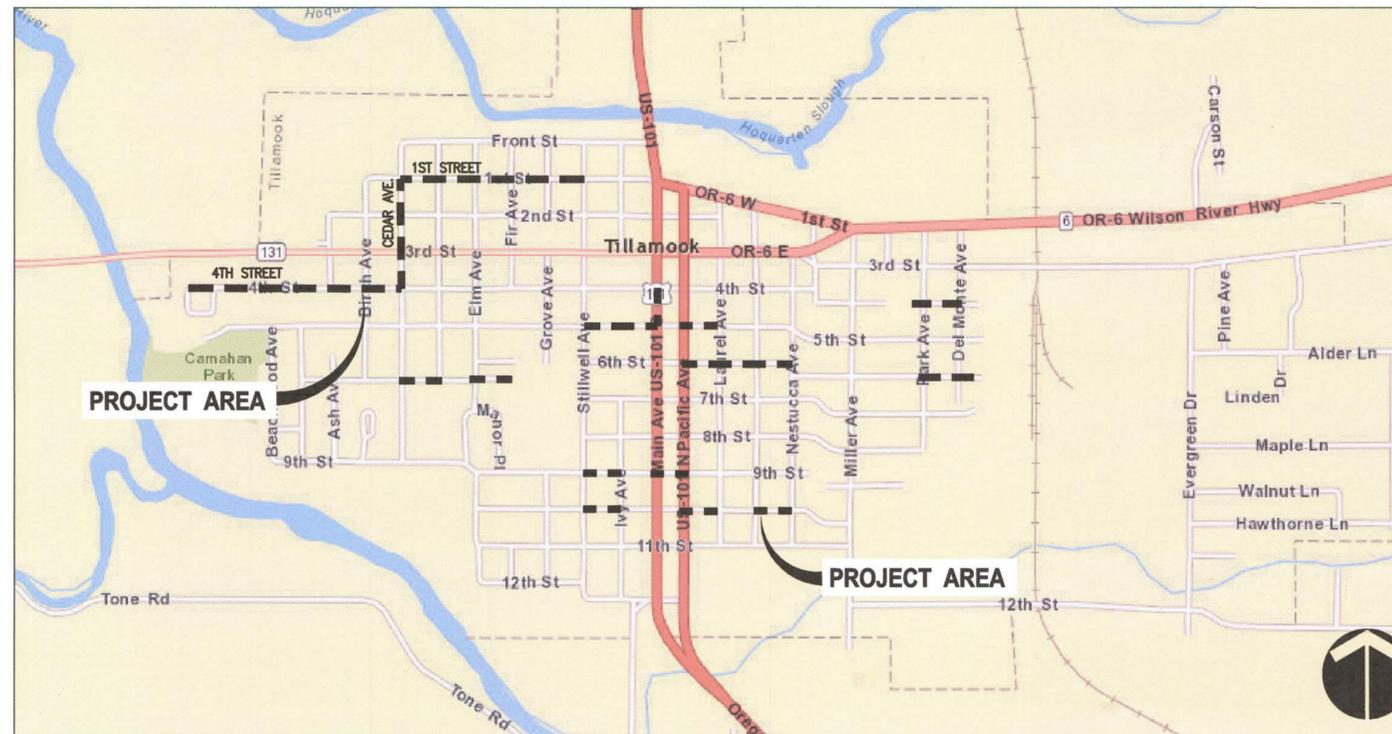
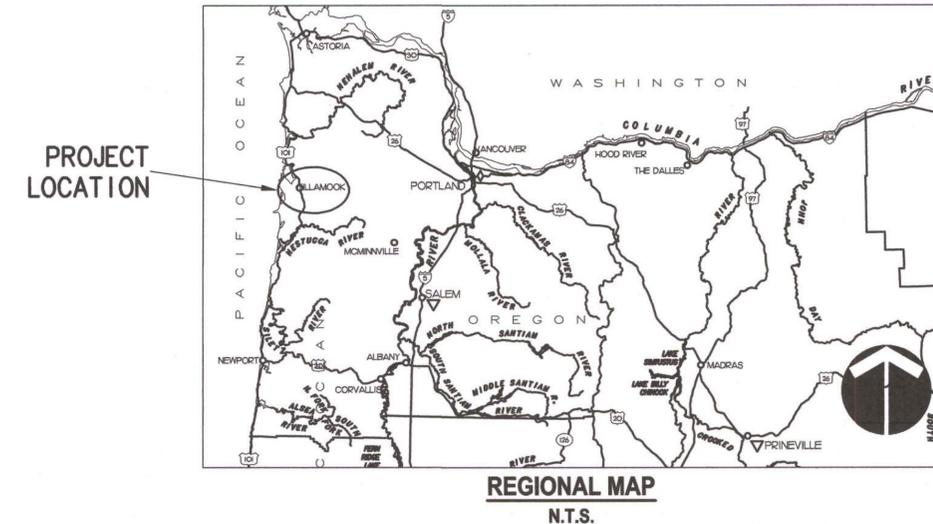
WORK UNDER THIS CONTRACT WILL BE FUNDED IN ITS ENTIRETY WITH FEDERAL GRANT FUNDS FROM THE OREGON COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM.

SEWER PIPELINE REHABILITATION SHEET INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
1	G01	COVER SHEET
2	G02	GENERAL NOTES AND LEGEND
3	G03	INDEX MAP & BID SCHEDULES
4	SC01	SURVEY CONTROL PLAN
5	SC02	SURVEY CONTROL PLAN
6	C01	SANITARY SEWER PLAN AND PROFILE
7	C02	SANITARY SEWER PLAN AND PROFILE
8	C03	SANITARY SEWER PLAN AND PROFILE
9	C04	SANITARY SEWER PLAN AND PROFILE
10	C05	SANITARY SEWER PLAN AND PROFILE
11	C06	SANITARY SEWER PLAN AND PROFILE
12	C07	SANITARY SEWER PLAN AND PROFILE
13	C08	SANITARY SEWER PLAN AND PROFILE
14	C09	SANITARY SEWER PLAN AND PROFILE
15	C10	SANITARY SEWER PLAN AND PROFILE
16	C11	SANITARY SEWER PLAN AND PROFILE
17	C12	SANITARY SEWER PLAN AND PROFILE
18	C13	SANITARY SEWER PLAN AND PROFILE
19	C14	SANITARY SEWER PLAN AND PROFILE
20	C15	SANITARY SEWER PLAN AND PROFILE
21	C16	SANITARY SEWER PLAN AND PROFILE
22	C17	SANITARY SEWER PLAN AND PROFILE
23	C18	SANITARY SEWER PLAN AND PROFILE
24	C19	SANITARY SEWER PLAN AND PROFILE
25	C20	SANITARY SEWER PLAN AND PROFILE
26	C21	SANITARY SEWER PLAN AND PROFILE
27	C22	SANITARY SEWER PLAN AND PROFILE
28	C23	SANITARY SEWER PLAN AND PROFILE
29	C24	SANITARY SEWER PLAN AND PROFILE
30	D01	CITY STANDARD DETAILS
31	D02	CITY STANDARD DETAILS
32	D03	CITY STANDARD DETAILS
33	D04	EROSION CONTROL STANDARD DETAILS
34	D05	PAVEMENT RESTORATION DETAILS

PUMP STATION REHABILITATION SHEET INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
35	PS01	COVER SHEET
36	PS02	GENERAL NOTES AND LEGEND
37	PS03	PUMP STATION DESING CRITERIA
38	PS04	EXISTING SITE AND DEMOLITION PLAN
39	PS05	SITE PLAN
40	PS06	COATING PLAN
41	PS07	MECHANICAL PLAN
42	PS08	CONTROL BUILDING ELEVATIONS
43	PS09	CONTROL BUILDING SECTIONS
44	PS10	CONNECTION DETAILS
45	PS11	ELECTRICAL SITE PLAN AND ONE-LINE DRAWING
46	PS12	STANDARD DETAILS
47	PS13	FOUNDATION DETAILS



Initial Issue by :	
Checked REVISIONS	
BY	
DATE	
NO.	



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
COVER
TILLAMOOK, TILLAMOOK COUNTY, OR


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 700 Washington Street
 Suite 401
 Vancouver, WA 98660
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 CALL 48 HOURS BEFORE YOU DIG
 1-800-424-5555
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GENERAL NOTES

- ATTENTION CONTRACTORS: 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 OAR 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) 232-1897 OR 1-800-332-2344). AT LEAST TWO (2) BUSINESS DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OREGON UTILITY NOTIFICATION CENTER OF THE DATE AND LOCATION OF THE PROPOSED CONSTRUCTION, AND THE TYPE OF WORK TO BE PERFORMED.
- ALL EXISTING FACILITIES TO BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- IN ACCORDANCE WITH O.R.S.290.140, IF THE CONTRACTOR FINDS IT NECESSARY TO INTERFERE WITH OR PAVE OVER ANY ESTABLISHED PUBLIC LAND SURVEY CORNER OR ITS ACCESSORIES, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR PRIOR TO DOING SO.
- IN ACCORDANCE WITH O.R.S.290.150, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL SURVEY MONUMENTS DISTURBED OR DESTROYED DURING CONSTRUCTION. REPLACING THE SURVEY MONUMENTS SHALL BE DONE BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS SHOWN (PLAN & PROFILE) ARE APPROXIMATE ONLY. NO PREDESIGN POTHOLING WAS DONE TO ESTABLISH THESE LOCATIONS. CONTACT UTILITY COMPANIES FOR PREMARKING. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT CONNECTION & CROSSING LOCATIONS TO VERIFY DEPTH, LOCATION & TYPE OF EXISTING WATER MAIN, SEWER MAIN & STORM MAIN PRIOR TO ORDERING CONNECTION MATERIALS. NOTIFY ENGINEER IMMEDIATELY IF EXISTING CONDITIONS VARY FROM THAT SHOWN. NOTIFY ENGINEER 24 HOURS PRIOR TO POTHOLING.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE CONTRACT DRAWINGS. ANY DISCREPANCIES OR UNEXPLAINED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT HE SHALL BE PROCEEDING AT HIS OWN RISK AND INCUR ALL COST, IF ANY, TO RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER.
- TECHNICAL SPECIFICATIONS FOR CONSTRUCTION ARE TO FOLLOW THE CONTRACT SPECIFICATIONS AND THE MOST CURRENT EDITION OF THE IBC, UPC, OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (ODOT/APWA) SHALL BE REFERENCED WHERE CONTRACT SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ITEM. SEE SPECIFICATIONS FOR CONSTRUCTION METHODS AND OTHER NOTES PERTINENT TO THIS PROJECT.
- UPON COMPLETION OF CONSTRUCTION OF THE PROJECT, CONTRACTOR TO SUBMIT RECORD DRAWINGS TO THE ENGINEER OR CITY. THE PROJECT SHALL NOT BE CONSIDERED COMPLETE UNTIL RECORD DRAWINGS ARE ACCEPTED BY CITY.
- CONTRACTOR MAY ENCOUNTER HIGH GROUND-WATER TABLE AT SITE LOCATION. HIGH GROUND-WATER IN COMBINATION WITH BEACH SAND SUBGRADE WILL CAUSE A "QUICK" EFFECT, WHICH WILL RESULT IN THE DESTABILIZATION OF ADJACENT SOILS, UTILITIES AND STRUCTURES. CONTRACTOR SHALL ANTICIPATE AND COORDINATE ANY AND ALL DEWATERING TECHNIQUES NECESSARY AND/OR REQUIRED TO COMPLETE PROJECT AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. CONTRACTOR SHALL BEAR ALL COSTS PERTAINING TO DEWATERING EFFORTS.

ROADWORK/SITWORK

- CONTRACTOR SHALL RESTORE ALL SURFACES TO MATCH EXISTING AND ADJACENT GRADES.

- ALL DESIGN ELEVATIONS SHOWN SHALL BE CONSIDERED TO BE FINISH SURFACE ELEVATIONS UNLESS OTHERWISE NOTED. ALL SURFACES SHALL BE GRADED SMOOTH AND FREE OF IRREGULARITIES THAT COULD ACCUMULATE SURFACE WATER.

- THE CONTRACTOR SHALL HAVE A SUFFICIENT NUMBER OF COMPACTION TESTS PERFORMED TO MEET SPECIFICATION REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. TESTS SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY AND WRITTEN RESULTS SHALL BE PROVIDED TO THE APPROPRIATE AGENCY. SHOULD COMPACTION REQUIREMENTS NOT BE MET, CONTRACTOR SHALL RECOMPACT AND PAY ALL ADDITIONAL TESTING COSTS RELATED TO THE RECOMPACTION.

SIGNAGE

- CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER ODOT REQUIREMENTS. ACCESS TO EXISTING DRIVEWAYS AND BUSINESSES TO BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL REPLACE ALL SIGNS REMOVED DURING CONSTRUCTION. CITY TO APPROVE INSTALLATION.

WATER

- INSPECTION BY ENGINEER OR CITY REPRESENTATIVE OF WATER SYSTEMS PRIOR TO BACKFILL SHALL BE REQUIRED.

- CONTRACTOR TO COORDINATE PLACEMENT OF WATER SERVICE METER WITH CITY PUBLIC WORKS.

- WATERLINE FITTINGS MUST BE FULLY RESTRAINED BY THRUST BLOCKS AND APPROVED RESTRAINT SYSTEM UNLESS SPECIFICALLY OTHERWISE INDICATED ON THESE DOCUMENTS.

- CONNECTION OF NEW WATER SERVICE TO EXISTING MAIN SHALL BE COORDINATED WITH CITY STAFF. ALL WATER MAIN VALVES SHALL ONLY BE OPERATED BY CITY PERSONNEL. NO EXCEPTIONS UNLESS AUTHORIZED IN WRITING BY CITY.

- POTHOLE EXISTING WATER PIPES FOR CONNECTION OF NEW WATER SYSTEM. ALL INVERT ELEVATIONS, PIPE SIZES AND MATERIALS ARE TO BE MEASURED BY CONTRACTOR PRIOR TO ORDERING ANY MATERIALS FOR THE WATER SYSTEM.

STORM & SEWER

- POTHOLE EXISTING STORM AND SEWER PIPES FOR CONNECTION OF NEW SYSTEMS. ALL INVERT ELEVATIONS, PIPE SIZES AND MATERIALS ARE TO BE MEASURED BY CONTRACTOR PRIOR TO ORDERING ANY MATERIALS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL CATCH BASINS, CLEANOUTS, MANHOLES, VAULTS, ETC., THAT ARE AFFECTED BY CONSTRUCTION AND/OR FILL TO FINISH GRADE. STORM DRAIN INLET STRUCTURES SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING.

- THESE PLANS INCLUDE REHABILITATION OF EXISTING PIPELINES VIA CURED IN PLACE PIPE (CIPP) LINING METHOD. THE AREAS WHERE CIPP REHABILITATION IS SPECIFIED ARE BASED ON THE LOCATIONS SHOWN IN THE SEPTEMBER 2013 FEASIBILITY STUDY PREPARED BY NW ENGINEERS. PREVIOUS INSPECTION VIDEOS AND REPORTS OF THESE PIPELINE SEGMENTS HAVE NOT BEEN MADE AVAILABLE FOR OTAK TO REVIEW.

DEMOLITION

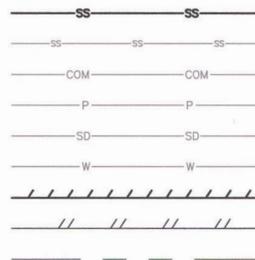
- CONTRACTOR TO DEVELOP A CONSTRUCTION PHASING PLAN AND PROVIDE IT TO THE CITY AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION. PLAN SHALL INDICATE STAGES OF DEMOLITION AND DURATION OF OUTAGES. ALL OUTAGES ARE TO BE KEPT TO A MINIMUM.

TRAFFIC CONTROL

- CONTRACTOR SHALL DEVELOP AND SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL. THE TRAFFIC CONTROL PLAN SHALL DETAIL KEY INTERSECTIONS WITHIN THE PROJECT ZONE. SEE SPECIFICATIONS SECTION 00225 FOR ADDITIONAL DETAILS AND REQUIREMENTS.

LEGEND

EXISTING



CATCH BASIN
WOODEN POST
SANITARY SEWER MANHOLE
MULTI-USE POWER POLE
GUY WIRE
AREA DRAIN
POWER RISER
WATER VALVE
WATER METER
WATER FIRE HYDRANT
COMMUNICATIONS RISER
CONTROL POINT
STORM DRAIN MANHOLE
SANITARY SEWER CLEANOUT
MAIN SANITARY SEWER LINE
SANITARY SEWER LATERAL
COMMUNICATIONS LINE
UNDERGROUND ELECTRIC LINE
STORM SEWER LINE
WATER LINE
EDGE OF ASPHALT
EDGE OF GRAVEL
RIGHT OF WAY AND TAXLOTS
SEDIMENT FENCE

PROPOSED



SURVEY NOTES

NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO PROVIDE THE CITY OF TILLAMOOK WITH A TOPOGRAPHIC MAP WITH EMPHASIS ON THE EXISTING SANITARY SEWER LINE AND CORRESPONDING UTILITY CROSSINGS. SURVEY DATA WAS COLLECTED VIA TERRESTRIAL METHODS AND GPS RTK OBSERVATIONS. FIELD TIES TO UTILITIES ARE BASED ON PAINT MARKS OF UTILITY LOCATE ON CALL. TIES WERE MADE WITH TRIMBLE S6 TOTAL STATION TERRESTRIAL OBSERVATIONS BETWEEN THE DATES OF JULY 30-AUGUST 08, 2014.

THE UTILITY COMPANIES WHO PLACE THE PAINT MARKS DO NOT GUARANTEE THEIR SURFACE LOCATES TO BE FREE OF ERRORS OR OMISSIONS, THEREFORE OTAK RESERVES THE SAME LIMITATIONS.

BASIS OF BEARING:

THE BASIS OF BEARING FOR THIS PROJECT IS GRID NORTH. THE HORIZONTAL DATUM IS NAD83(CORS 11) EPOCH 2010.00, PROJECTED ONTO OREGON NORTH ZONE (3601) STATE PLANE (GRID) COORDINATES IN INTERNATIONAL FEET. BEARINGS SHOWN HERE ON ARE GRID.

THE VERTICAL DATUM IS NAVD88(GEOD 12), HOLDING NGS BENCH MARK "C 223" (PID: RD1010) PUBLISHED ORTHOMETRIC ELEVATION OF 55.45'

ABBREVIATIONS

ADA = AMERICANS WITH DISABILITIES ACT	IPS = IRON PIPE SIZE
AVE = AVENUE	L = LENGTH
BNSF = BURLINGTON NORTHERN SANTA FE	LF = LINEAR FEET
BO = BLOW OFF	MAX = MAXIMUM
BTM = BOTTOM	MH = MANHOLE
CARV = COMBINATION AIR RELEASE VALVE	MIN = MINIMUM
CB = CATCH BASIN	MJ = MECHANICAL JOINT
CIPP = CURED IN PLACE PIPE	N = NORTH, NORTHING
CL = CENTERLINE	NIC = NOT IN CONTRACT
CONC = CONCRETE	OC = ON CENTER
CONN = CONNECTION	OHW = ORDINARY HIGH WATER
CSBC = CRUSHED SURFACING BASE COURSE	PE = PLAIN END
DEC = DECIDUOUS	PI = POINT OF INTERSECTION
DI = DUCTILE IRON	PIP = PLASTIC IRRIGATION PIPE
DIP = DUCTILE IRON PIPE	PL = PIPELINE
DBH = DIAMETER AT BREST HEIGHT	PS = PUMP STATION
DIA = DIAMETER	PT = POINT OF TANGENCY
E = EAST, EASTING	PVC = POLYVINYL CHLORIDE
ELEV = ELEVATION	R = RADIUS
EOG = EDGE OF GRAVEL	REQ'D = REQUIRED
EOP = EDGE OF PAVEMENT	ROW = RIGHT OF WAY
EX = EXISTING	R.R. = RAILROAD
FA = FORCED AIR	S = SLOPE
FF = FINISHED FLOOR ELEVATION	SS = SANITARY
FG = FINISHED GRADE	SD = STORM DRAIN
FL = FLANGE	SDR = STANDARD DIMENSION RATIO
FM = FORCE MAIN	STA = STATION
FT = FEET	STM = STORM
HMA = HOT MIX ASPHALT	TBW = TOP BACK OF WALL
HORIZ = HORIZONTAL	TYP = TYPICAL
IE = INVERT ELEVATION	VERT = VERTICAL

UTILITY PROVIDERS

- ONE CALL CENTER - CALL BEFORE YOU DIG!

(800) 332-2344 (ONE-CALL CENTER)
(877) 668-4001 (ADMINISTRATIVE)

ATTENTION EXCAVATORS: OREGON LAW REQUIRES COMPLIANCE WITH OAR 952-001-0010 THROUGH OAR 952-001-0090. THESE RULES MAY BE OBTAINED BY CALLING OREGON UTILITY NOTIFICATION CENTER, (503) 232-1987. CONTRACTOR MUST NOTIFY THE CENTER AT LEAST TWO (2) WORKING DAYS BEFORE, BUT NOT MORE THAN TEN (10) DAYS BEFORE COMMENCING EXCAVATION.

- WATER/SEWER/STORM

TIM LYDA - PUBLIC WORKS DIRECTOR
210 LAUREL AVE.
TILLAMOOK, OREGON 97141
(503) 374-1826 (OFFICE)
(503) 812-8802 (CELL)

- ELECTRICITY

TILLAMOOK PEOPLE'S UTILITY DISTRICT
DEREK MICKELSON
1115 PACIFIC AVE, TILLAMOOK, OR 97141
(503) 842-2535 (OFFICE)
(503) 815-8629 (ENGINEERING DIRECT)
(800) 422-2535 (TOLL FREE)
(800) 842-2122 (EMERGENCY)

- TELEPHONE

CENTURYLINK
SCOTT SCHIMINESKY
PACIFIC CITY, OR 97141
(503) 965-9918

- CABLE TELEVISION

CHARTER COMMUNICATIONS
1014 PACIFIC AVE, TILLAMOOK, OR 97141
(888) 438-2427 (OFFICE)

- GAS

NORTHWEST NATURAL GAS
ANDREW YOUNG, P.E.
220 NW 2ND AVE
PORTLAND, OR 97209
(503) 226-4211 (OFFICE)
(360) 281-6169 (CELL)

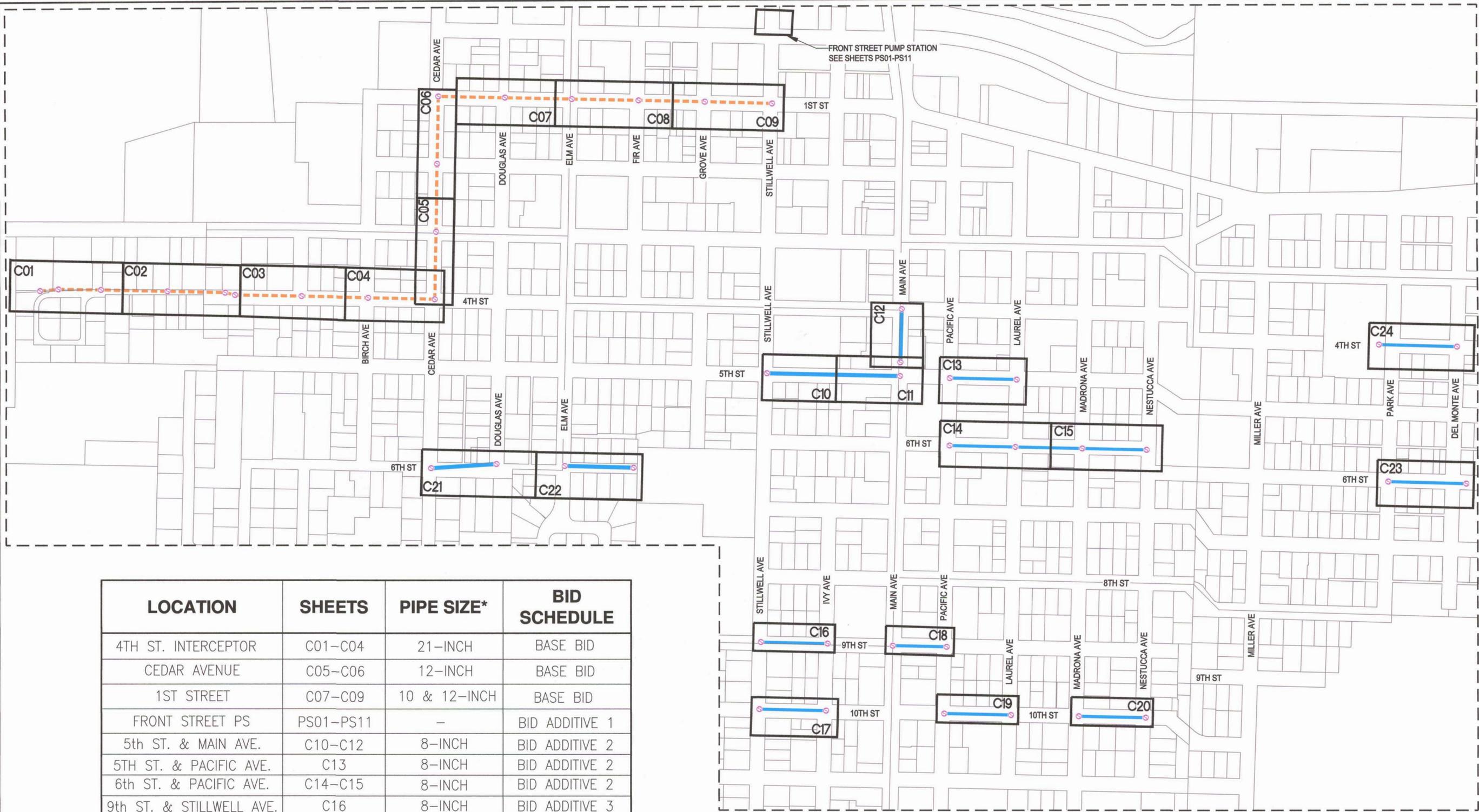
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Checked & Approved	BY
DATE	NO.



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
GENERAL NOTES & LEGEND
TILLAMOOK, TILLAMOOK COUNTY, OR



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FRONT STREET PUMP STATION
SEE SHEETS PS01-PS11

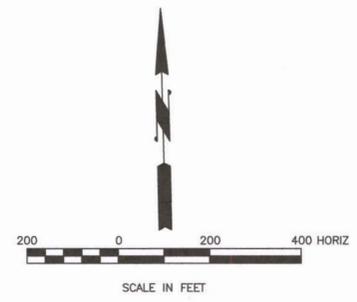
LOCATION	SHEETS	PIPE SIZE*	BID SCHEDULE
4TH ST. INTERCEPTOR	C01-C04	21-INCH	BASE BID
CEDAR AVENUE	C05-C06	12-INCH	BASE BID
1ST STREET	C07-C09	10 & 12-INCH	BASE BID
FRONT STREET PS	PS01-PS11	-	BID ADDITIVE 1
5th ST. & MAIN AVE.	C10-C12	8-INCH	BID ADDITIVE 2
5th ST. & PACIFIC AVE.	C13	8-INCH	BID ADDITIVE 2
6th ST. & PACIFIC AVE.	C14-C15	8-INCH	BID ADDITIVE 2
9th ST. & STILLWELL AVE.	C16	8-INCH	BID ADDITIVE 3
10th ST. & STILLWELL AVE.	C17	8-INCH	BID ADDITIVE 3
9th ST. & MAIN AVE.	C18	8-INCH	BID ADDITIVE 3
10th ST. & PACIFIC AVE.	C19	8-INCH	BID ADDITIVE 3
10th ST. & MADRONA AVE.	C20	8-INCH	BID ADDITIVE 3
6th ST. & ELM AVE.	C21-C22	8-INCH	BID ADDITIVE 4
6th ST. & PARK AVE.	C23	8-INCH	BID ADDITIVE 4
4th ST. & PARK AVE.	C24	8-INCH	BID ADDITIVE 4

*PROPOSED DIAM. FOR OPEN-CUT, EX. DIAM. FOR CIPP

LEGEND

 - - - - - OPEN CUT- SEWER PIPE REPLACEMENT
 ——— CIPP- SEWER PIPE REHABILITATION
 ⊗ EXISTING SEWER MANHOLE

INDEX MAP



NO.	DATE	BY	Checked	Initial Issue by :
			Approval	REVISIONS

REGISTERED PROFESSIONAL ENGINEER
 70947PE

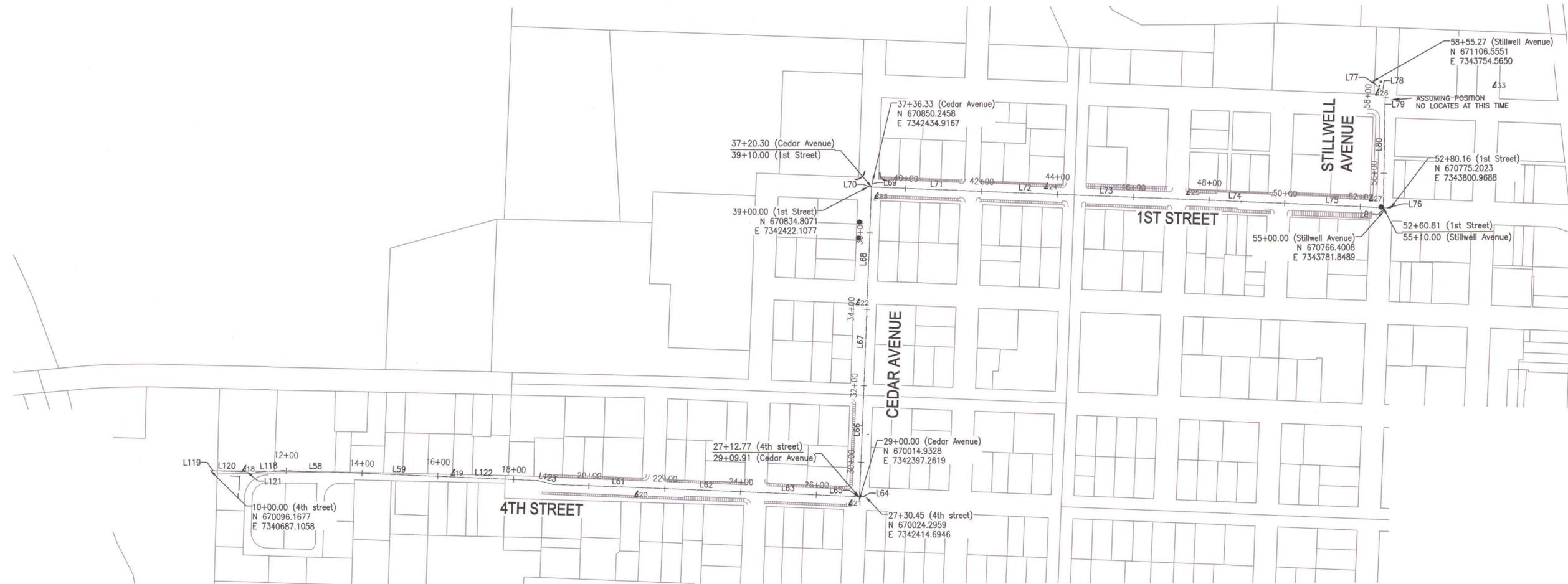
 EXPIRES: 06/30/2017

**CITY OF TILLAMOOK
 TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
 INDEX MAP & BID SCHEDULES
 TILLAMOOK, TILLAMOOK COUNTY, OR**

otak
 Hanmi Global Partner
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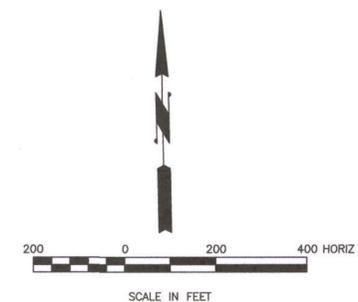
SURVEY CONTROL MAP

SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
18	670099.85	7340779.78	20.51	C-RPCotak
19	670088.99	7341330.16	20.55	C-PKW
20	670031.30	7341813.44	19.88	C-PK
21	670008.24	7342378.54	16.68	C-PKW
22	670532.05	7342398.58	19.53	C-PKW
23	670809.63	7342448.26	20.71	C-PK
24	670833.71	7342896.63	22.39	C-PK
25	670817.60	7343270.55	23.07	C-PK
26	671077.00	7343769.84	15.96	C-PK
27	670799.69	7343753.02	25.03	C-PK
28	668581.85	7343943.50	20.78	C-PK
29	668319.20	7343970.28	19.80	C-PK
30	668887.33	7344214.11	22.84	C-PKW
31	668865.25	7344738.17	24.40	C-PK
32	668838.14	7345239.00	26.97	C-PK
33	671095.14	7344079.70	14.44	C-PKW
34	669335.79	7343206.98	19.59	C-PK
35	669369.63	7342401.22	17.38	C-PK
36	669672.98	7343766.86	22.23	C-BSW
37	669640.58	7344447.15	26.06	B-BSW

4TH STREET CONSTRUCTION CENTERLINE HORIZONTAL CONTROL			
NUMBER	BEGIN STATION	LENGTH	BEARING
L119	10+00.00	10.00'	S87°54'46"E
L120	10+10.00	72.27'	S87°54'46"E
L121	10+82.27	34.00'	S87°05'36"E
L118	11+16.27	74.56'	N85°58'27"E
L58	11+90.83	172.12'	S87°56'56"E
L59	13+62.95	269.59'	S87°35'15"E
L122	16+32.54	232.85'	S87°24'34"E
L123	18+65.39	40.58'	S75°33'28"E
L61	19+05.97	268.26'	S87°44'08"E
L62	21+74.22	269.88'	S87°33'56"E
L63	24+44.10	270.03'	S87°33'20"E
L64	27+14.13	16.32'	S87°59'04"E

STILLWELL AVENUE CONSTRUCTION CENTERLINE HORIZONTAL CONTROL			
NUMBER	BEGIN STATION	LENGTH	BEARING
L81	55+00.00	10.00'	N1°04'57"W
L80	55+10.00	270.88'	N1°05'50"E
L79	57+80.88	27.28'	N4°32'49"E
L78	58+08.16	21.02'	N47°31'12"W
L77	58+29.18	26.08'	N46°34'13"W

1ST STREET CONSTRUCTION CENTERLINE HORIZONTAL CONTROL			
NUMBER	BEGIN STATION	LENGTH	BEARING
L70	39+00.00	10.00'	S88°04'06"E
L71	39+10.00	270.01'	S87°35'32"E
L72	41+80.01	270.14'	S87°34'49"E
L73	44+50.15	270.05'	S87°37'41"E
L74	47+20.20	268.19'	S87°36'15"E
L75	49+88.40	272.42'	S87°16'43"E
L76	52+60.81	19.35'	S86°27'13"E



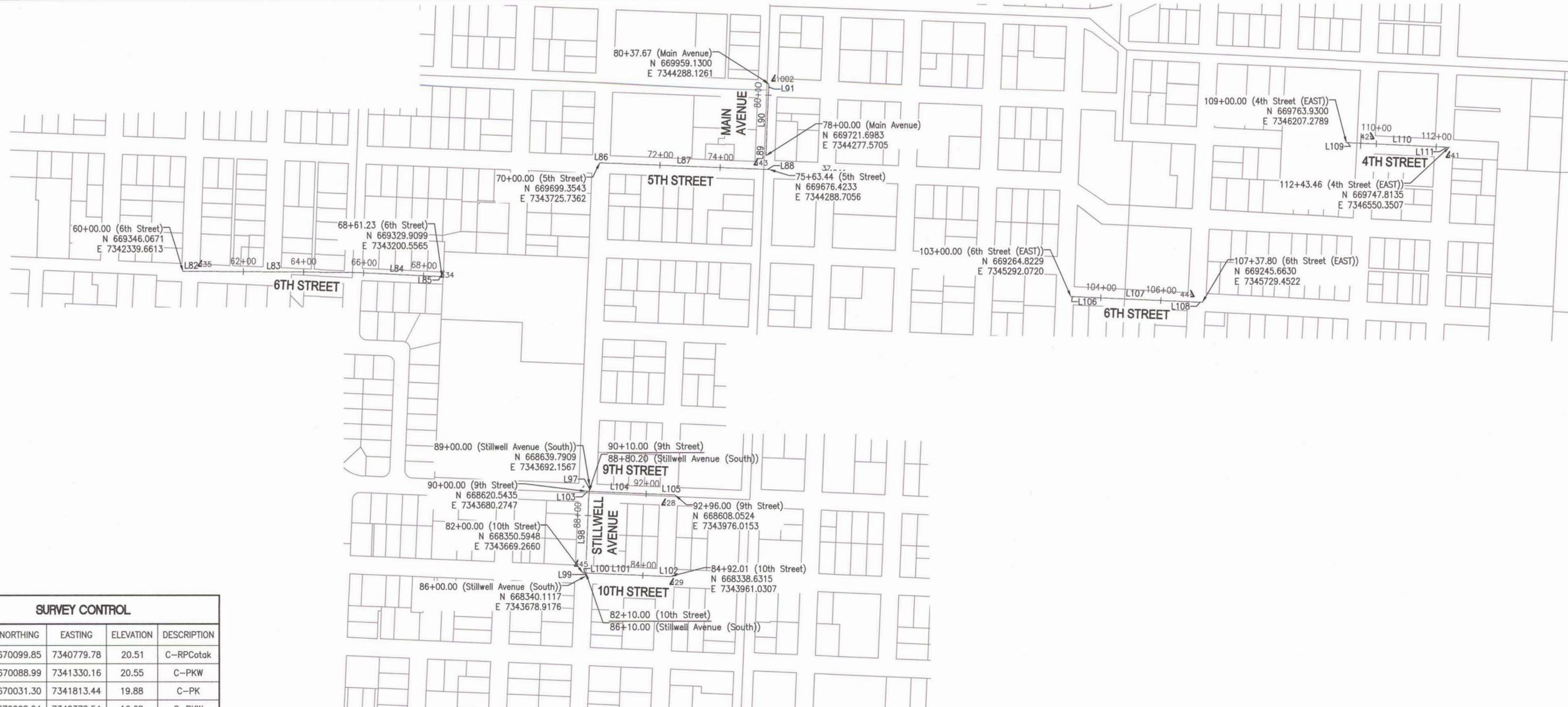
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NO.	DATE	BY	Checked & Approved	Initial Issue by :	REVISIONS

REGISTERED PROFESSIONAL
ENGINEER
70847PE
OREGON
MAY 12, 2009
TIM B. KRAFT
EXPIRES: 06/30/2017

CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
SURVEY CONTROL PLAN
TILLAMOOK, TILLAMOOK COUNTY, OR

otak
HanmiGlobal Partner
700 Washington Street
Suite 401
Vancouver, WA 98660
Phone: (360) 737-9613
FAX: (360) 737-9651
www.otak.com



SURVEY CONTROL MAP

SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
18	670099.85	7340779.78	20.51	C-RPCotak
19	670088.99	7341330.16	20.55	C-PKW
20	670031.30	7341813.44	19.88	C-PK
21	670008.24	7342378.54	16.68	C-PKW
22	670532.05	7342398.58	19.53	C-PKW
23	670809.63	7342448.26	20.71	C-PK
24	670833.71	7342896.63	22.39	C-PK
25	670817.60	7343270.55	23.07	C-PK
26	671077.00	7343769.84	15.96	C-PK
27	670799.69	7343753.02	25.03	C-PK
28	668581.85	7343943.50	20.78	C-PK
29	668319.20	7343970.28	19.80	C-PK
30	668887.33	7344214.11	22.84	C-PKW
31	668865.25	7344738.17	24.40	C-PK
32	668838.14	7345239.00	26.97	C-PK
33	671095.14	7344079.70	14.44	C-PKW
34	669335.79	7343206.98	19.59	C-PK
35	669369.63	7342401.22	17.38	C-PK
36	669672.98	7343766.86	22.23	C-BSW
37	669640.58	7344447.15	26.06	B-BSW

SURVEY CONTROL

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
38	668130.55	7345631.18	21.12	C-PKW
39	668309.08	7345253.44	22.23	C-PK
40	668449.28	7345647.22	22.14	C-PK
41	669720.84	7346551.52	30.73	C-PK
42	669782.99	7346287.98	31.08	C-PK
43	669698.00	7344249.69	24.40	C-PK
44	669271.22	7345690.63	30.54	C-PK
45	668379.44	7343652.90	20.71	C-PK
1002	669974.74	7344308.85	24.79	C-PKW
1300	670778.33	7343776.03	25.29	C-BSW

**9TH STREET
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L103	90+00.00	10.00'	S87°20'56"E
L104	90+10.00	270.45'	S87°35'13"E
L105	92+80.45	15.55'	S87°38'07"E

**10TH STREET
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L100	82+00.00	10.00'	S87°11'53"E
L101	82+10.00	270.35'	S87°36'25"E
L102	84+80.35	11.66'	S89°05'01"E

**MAIN AVENUE
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L89	78+00.00	10.00'	N1°28'11"E
L90	78+10.00	214.53'	N2°34'16"E
L91	80+24.53	13.14'	N2°56'46"E

**5TH STREET
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L86	70+00.00	9.09'	S88°09'12"E
L87	70+10.91	537.33'	S87°37'59"E
L88	75+51.97	11.47'	S88°41'58"E

**6TH STREET (EAST)
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

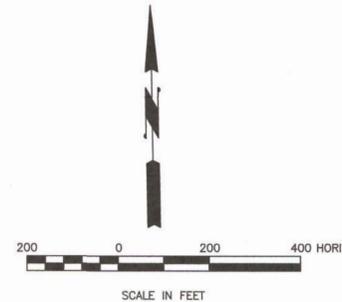
NUMBER	BEGIN STATION	LENGTH	BEARING
L106	103+00.00	9.56'	S87°11'52"E
L107	103+10.44	407.40'	S87°27'06"E
L108	107+21.74	16.07'	S88°34'07"E

**6TH STREET
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L82	60+00.00	30.00'	S89°45'06"E
L83	60+30.00	541.49'	S89°44'52"E
L84	65+71.49	278.58'	S87°21'28"E
L85	68+50.07	11.15'	S85°52'51"E

**4TH STREET (EAST)
CONSTRUCTION CENTERLINE HORIZONTAL CONTROL**

NUMBER	BEGIN STATION	LENGTH	BEARING
L109	109+00.00	7.12'	S85°38'29"E
L110	109+12.88	310.53'	S87°17'27"E
L111	112+27.96	15.49'	S88°35'44"E



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GENERAL NOTES

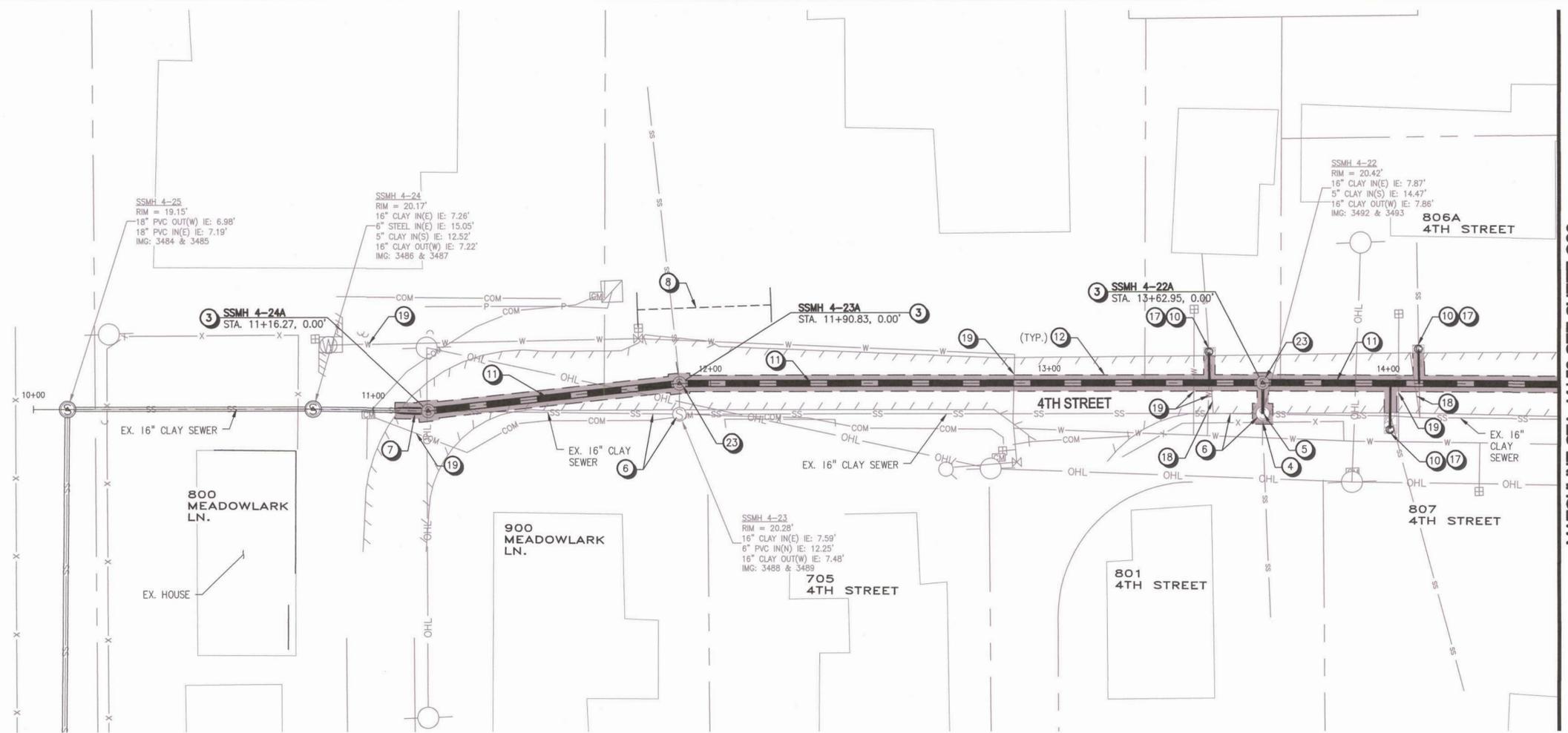
- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

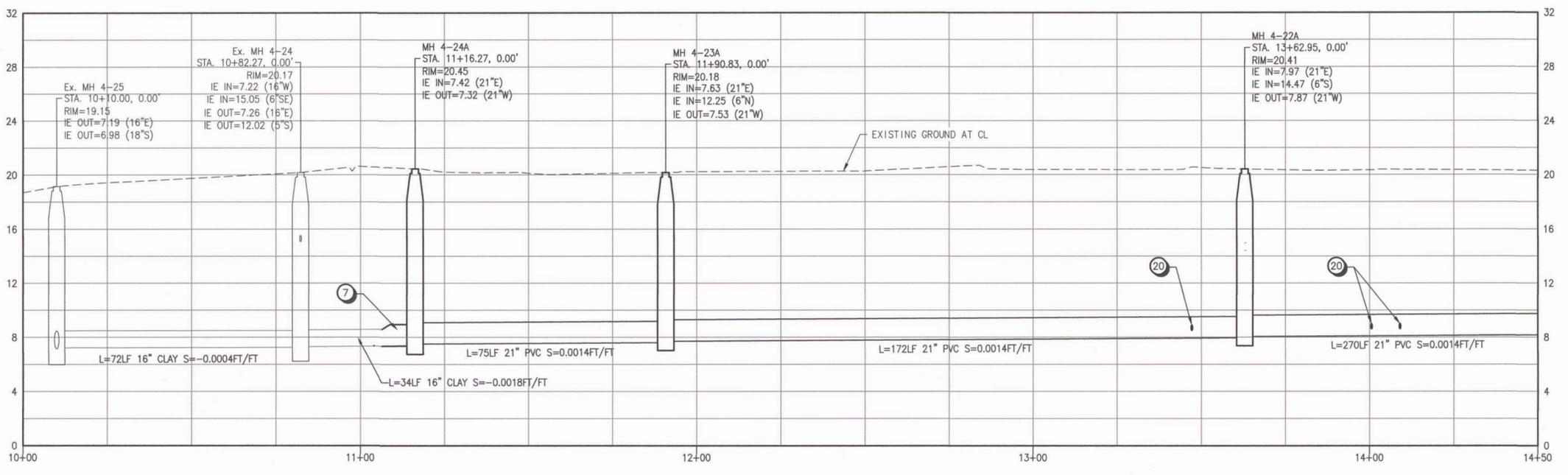
KEY NOTES

- INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- INSTALL 6" PVC PIPE BETWEEN EXISTING LATERAL AND NEW SEWER MANHOLE. CUT AND CONNECT TO EXISTING LATERAL WITH FERNOCO COUPLING.
- ROUTE 6" PVC PIPE THROUGH ABANDONED MANHOLE. REMOVE MANHOLE SECTIONS ABOVE THE INVERT OF 6" PVC PIPE.
- FILL AND ABANDON EXISTING MANHOLE AND GRAVITY SEWER PIPES IN PLACE FOLLOWING ACCEPTANCE OF NEW GRAVITY SEWER.
- CONNECT NEW 21" PVC PIPE TO EX. 16" CLAY PIPE WITH 21"x16" PVC ECCENTRIC REDUCER. POTHOLE AND VERIFY OUTER DIAM. OF EX. CLAY PIPE PRIOR TO ORDERING REDUCER. PLUG, FILL, AND ABANDON EX. 16" SEWER PIPE TO THE EAST.
- COORDINATE WITH SHERIDAN SQUARES APARTMENTS FOR USE OF EXISTING GATE AS TRAFFIC DETOUR AROUND CONSTRUCTION AREA IN 4TH STREET. INSTALL TEMPORARY CONCRETE APRON ACROSS LANDSCAPE AREA AND RESTORE TO EXISTING CONDITIONS AFTER DETOUR IS COMPLETE.
- INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- CONSTRUCT NEW GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- PLUG AND ABANDON EXISTING SEWER LATERAL.
- EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 530 AND 590 ON SHEET D02.
- INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

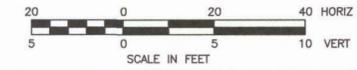


PLAN

MATCHLINE STA. 14+50 SEE SHEET C02

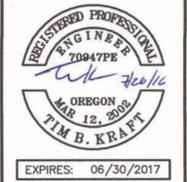


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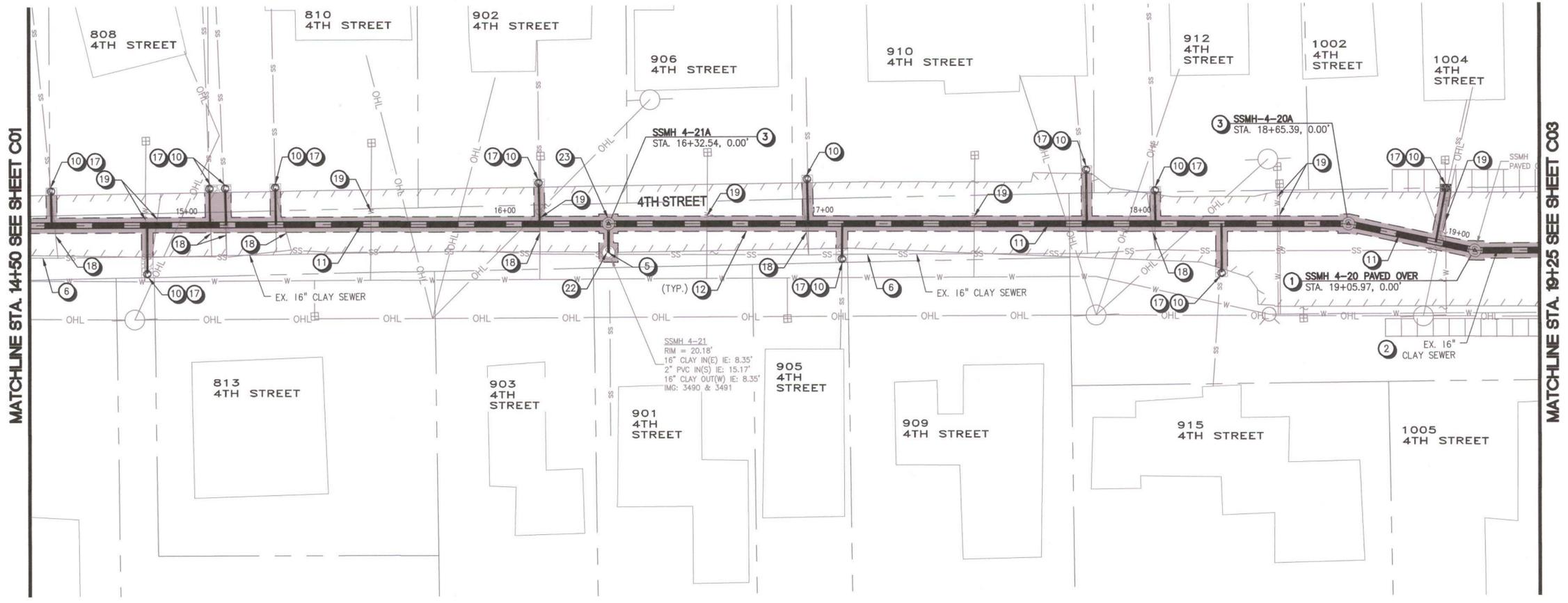
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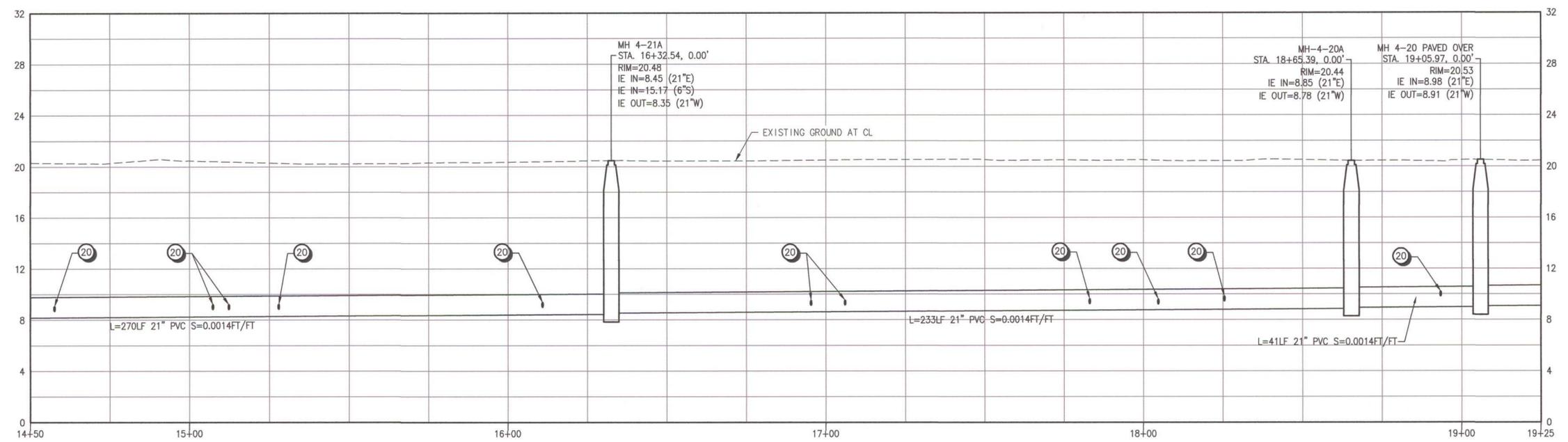
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GENERAL NOTES

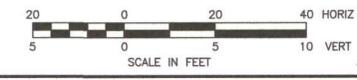
- SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- ROUTE 6" PVC PIPE THROUGH ABANDONED MANHOLE. REMOVE MANHOLE SECTIONS ABOVE THE INVERT OF 6" PVC PIPE.
- FILL AND ABANDON EXISTING MANHOLE AND GRAVITY SEWER PIPES IN PLACE FOLLOWING ACCEPTANCE OF NEW GRAVITY SEWER.
- INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- CONSTRUCT NEW GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- PLUG AND ABANDON EXISTING SEWER LATERAL.
- EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 530 AND 590 ON SHEET D02.
- CAP AND ABANDON EXISTING 16" GRAVITY SEWER PIPES IN PLACE AND FILL EXISTING MANHOLE TO ELEVATION 1' BELOW IE OF EXISTING 5" CLAY SEWER LATERAL. REMOVE REMAINING MANHOLE WALLS AND CONNECT NEW 6" PVC TO EXISTING LATERALS USING WYE.
- INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.



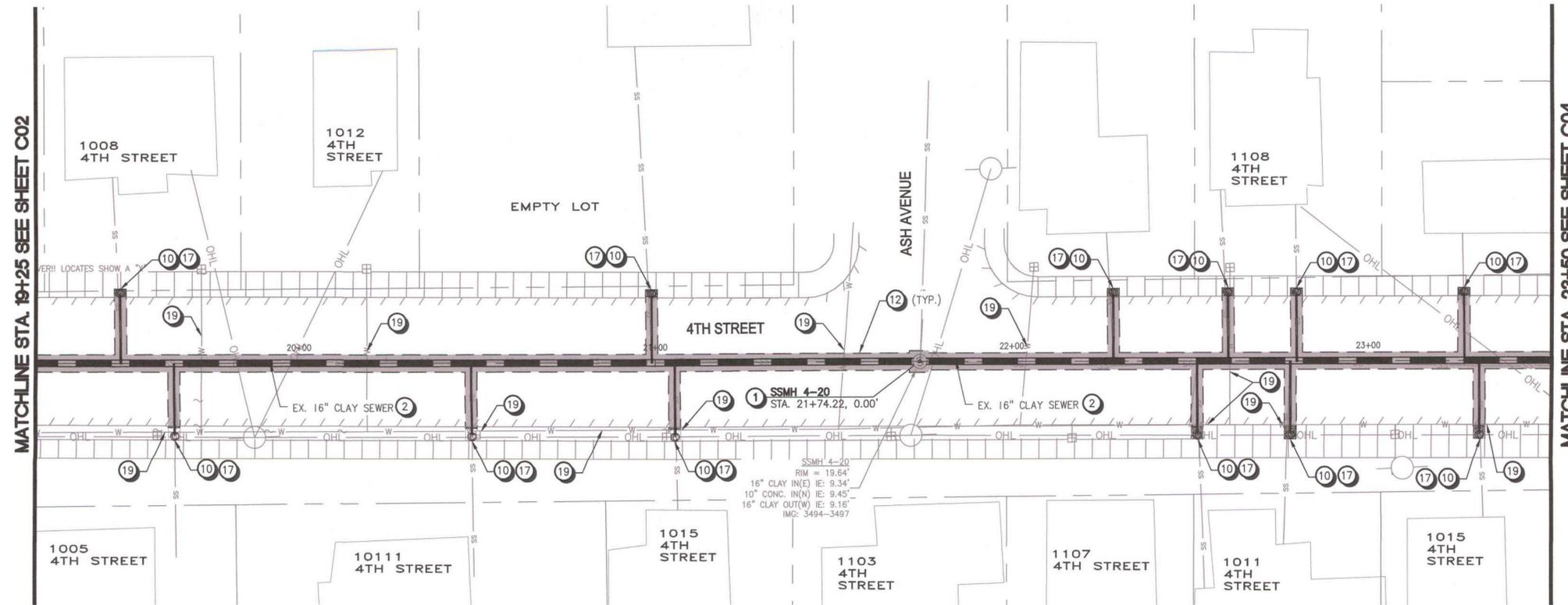
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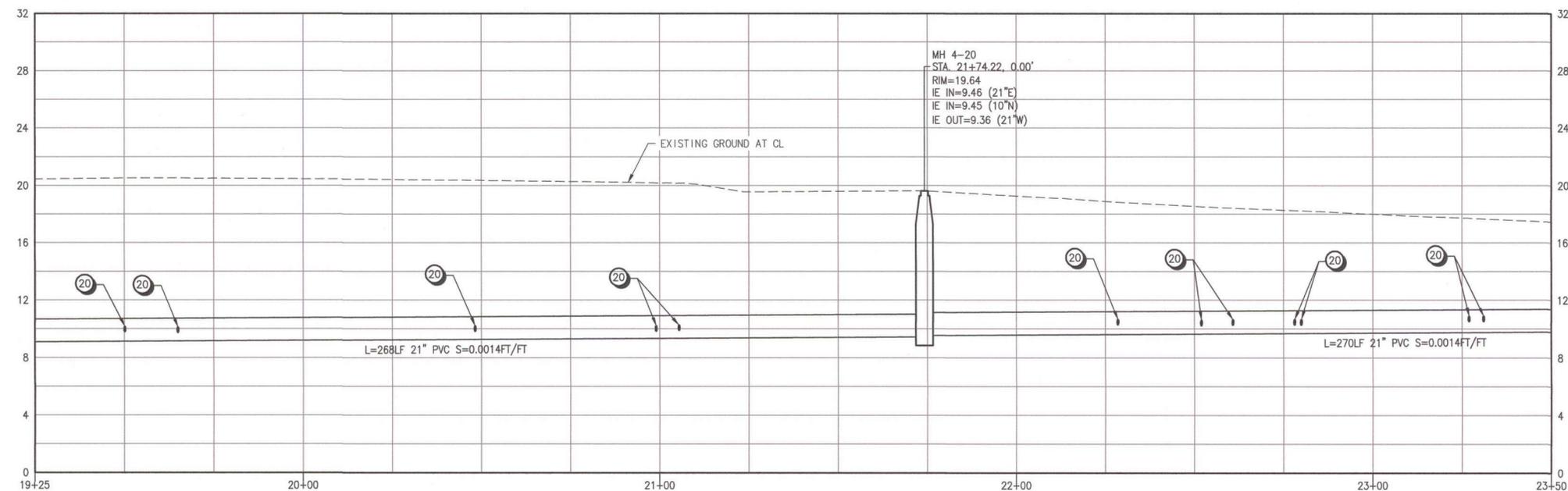


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GENERAL NOTES

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EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

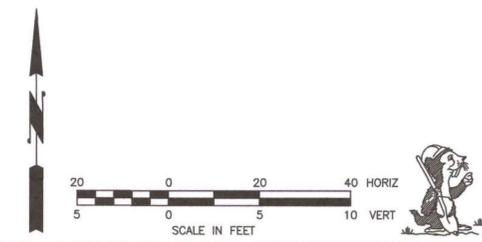
- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 20 INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE. PER COT STD DWGS 530 AND 590 ON SHEET D02.

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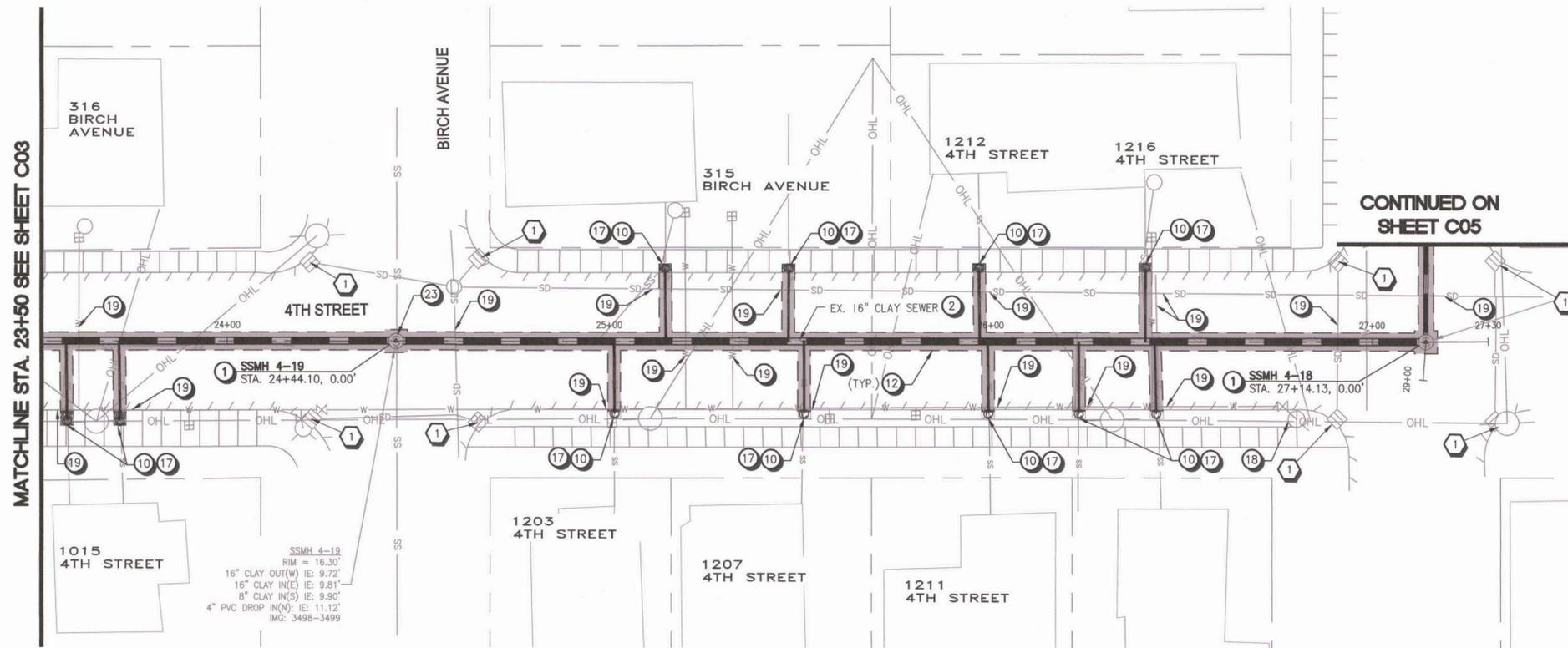
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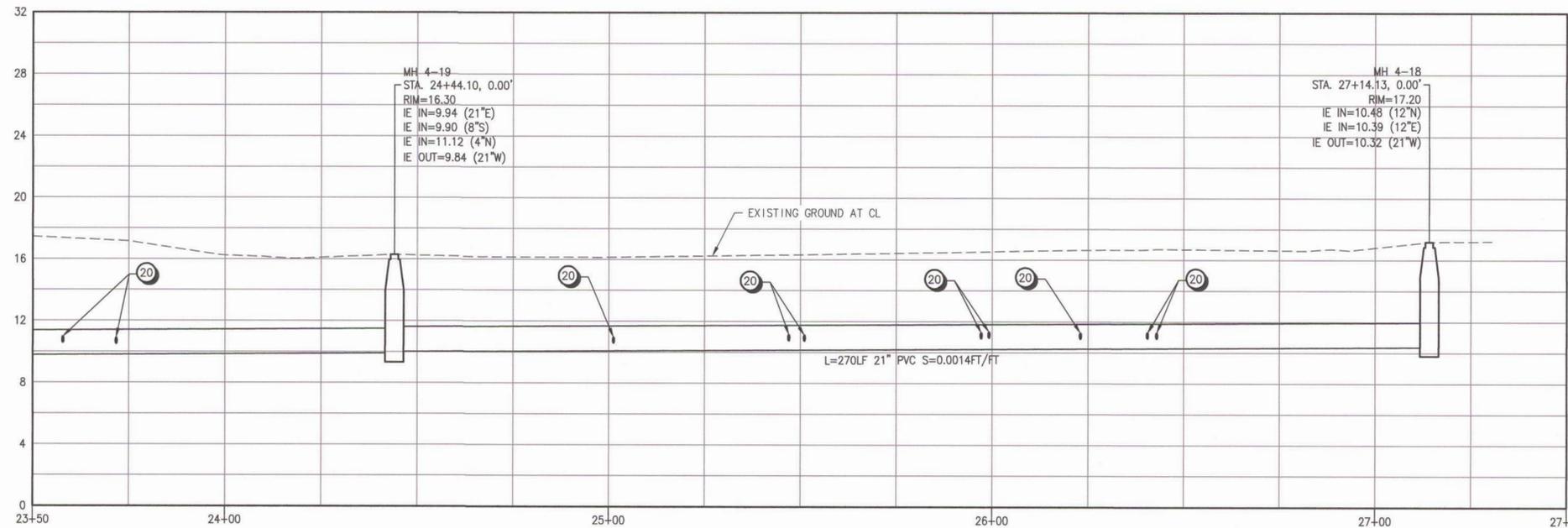
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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
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- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

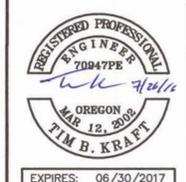
EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

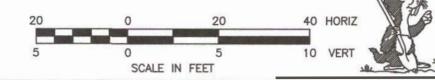
- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 20 INSTALL INSERTA-TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 530 AND 590 ON SHEET D02.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

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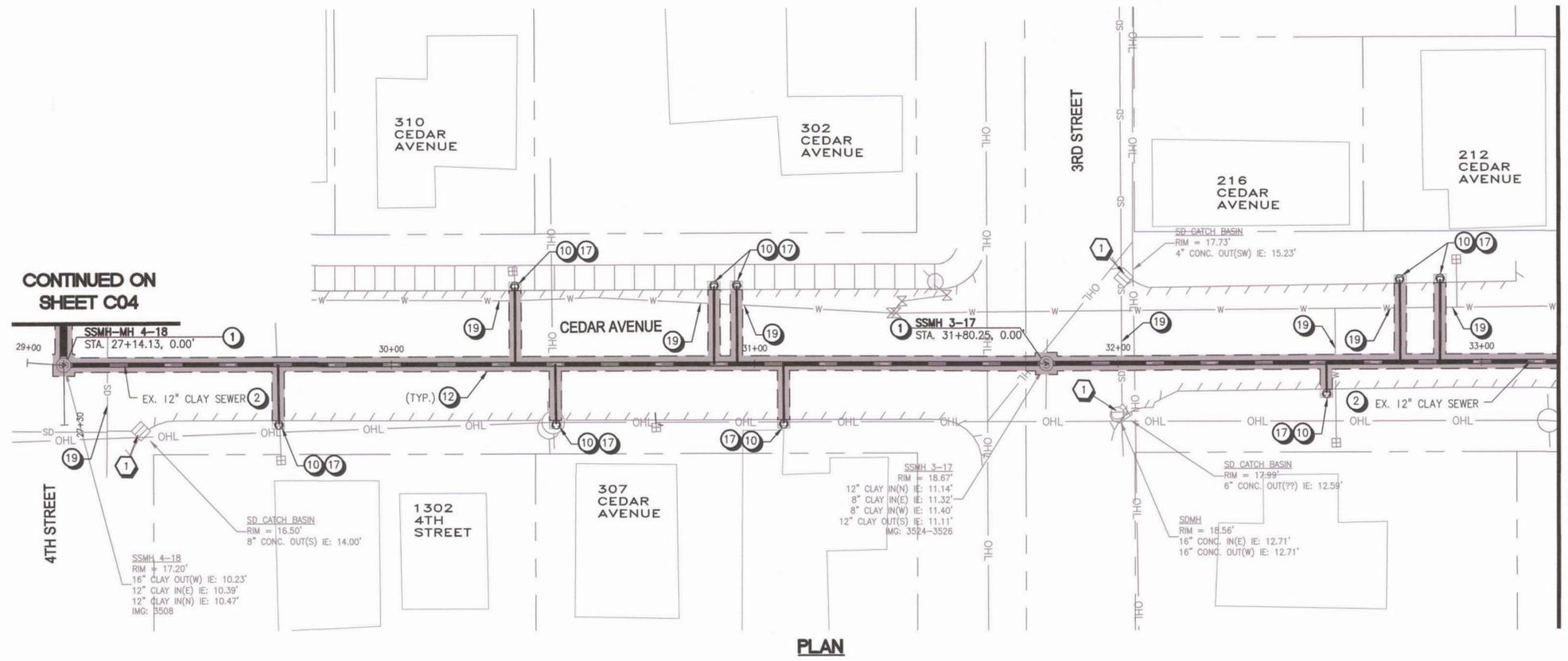
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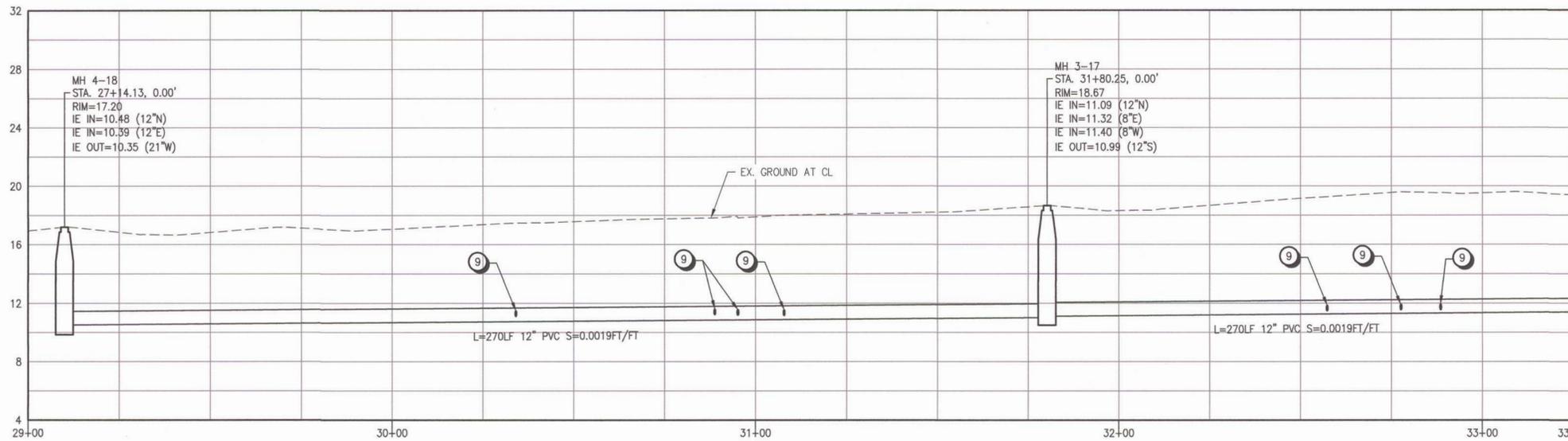


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MATCHLINE STA. 33+25 SEE SHEET C06

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EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

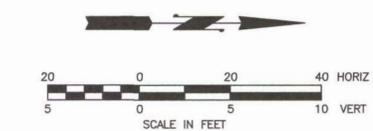
KEY NOTES

- REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.

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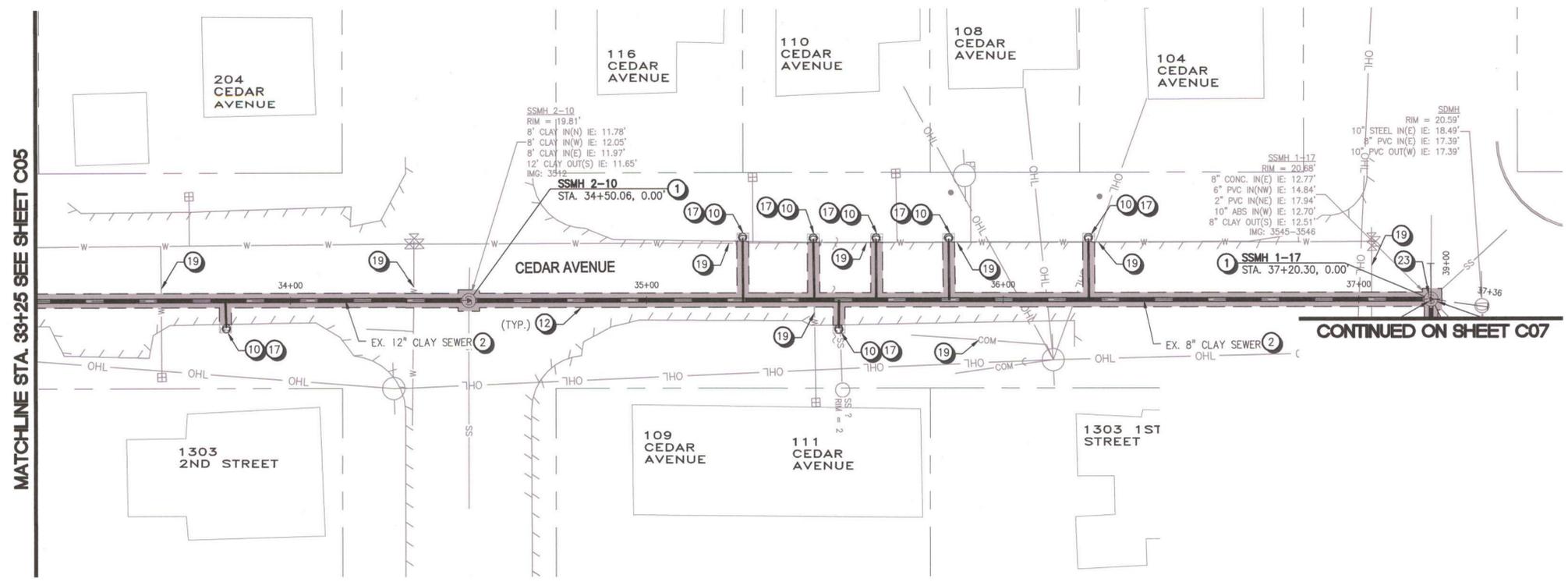
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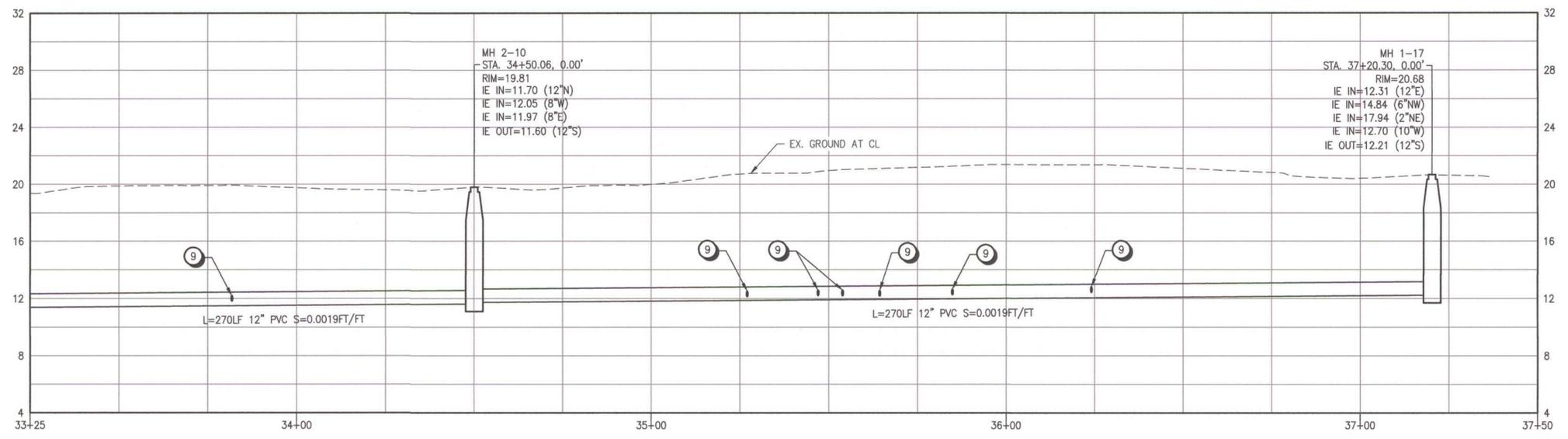


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GENERAL NOTES

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EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

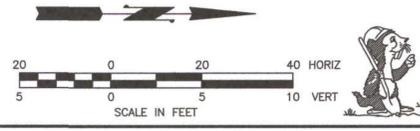
- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 9 INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.

NO.	DATE	BY	REVISIONS



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
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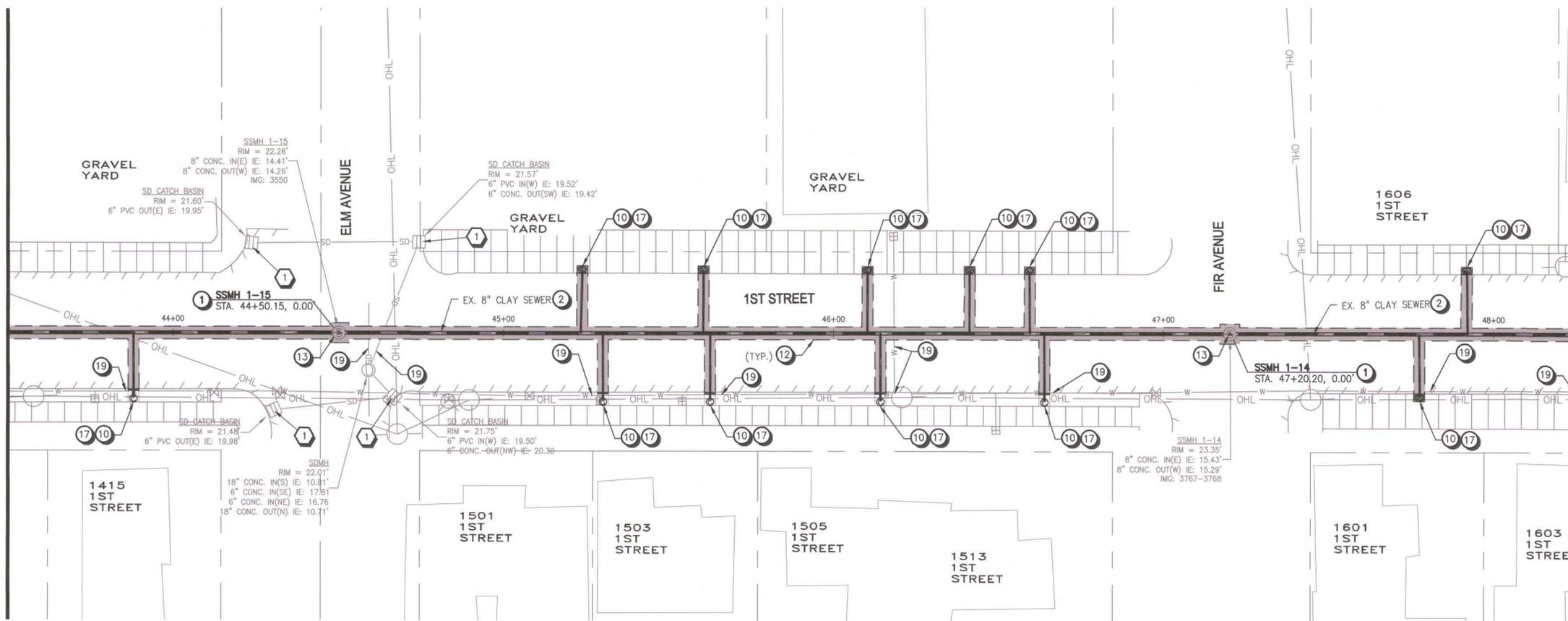


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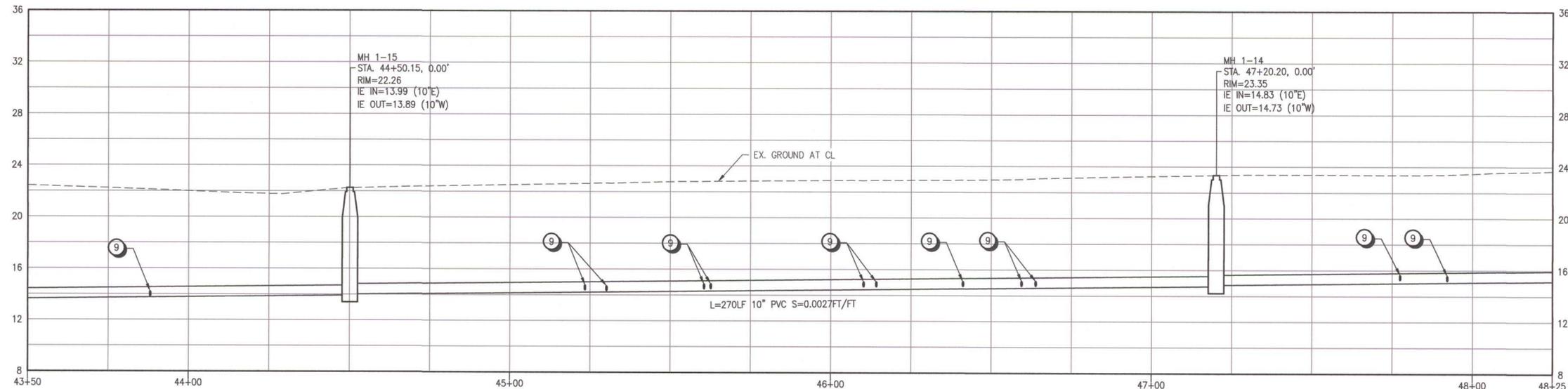
Jul 25, 2016 - 9:41 am
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MATCHLINE STA. 43+50 SEE SHEET C07

MATCHLINE STA. 48+25 SEE SHEET C09



PLAN



PROFILE

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

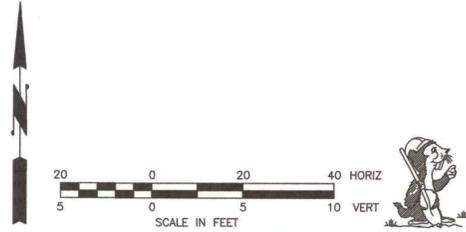
- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 9 INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 13 APPLY PROTECTIVE EPOXY COATING TO INTERIOR OF MANHOLE AND ASPHALTIC COATING TO EXTERIOR OF MANHOLE.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.

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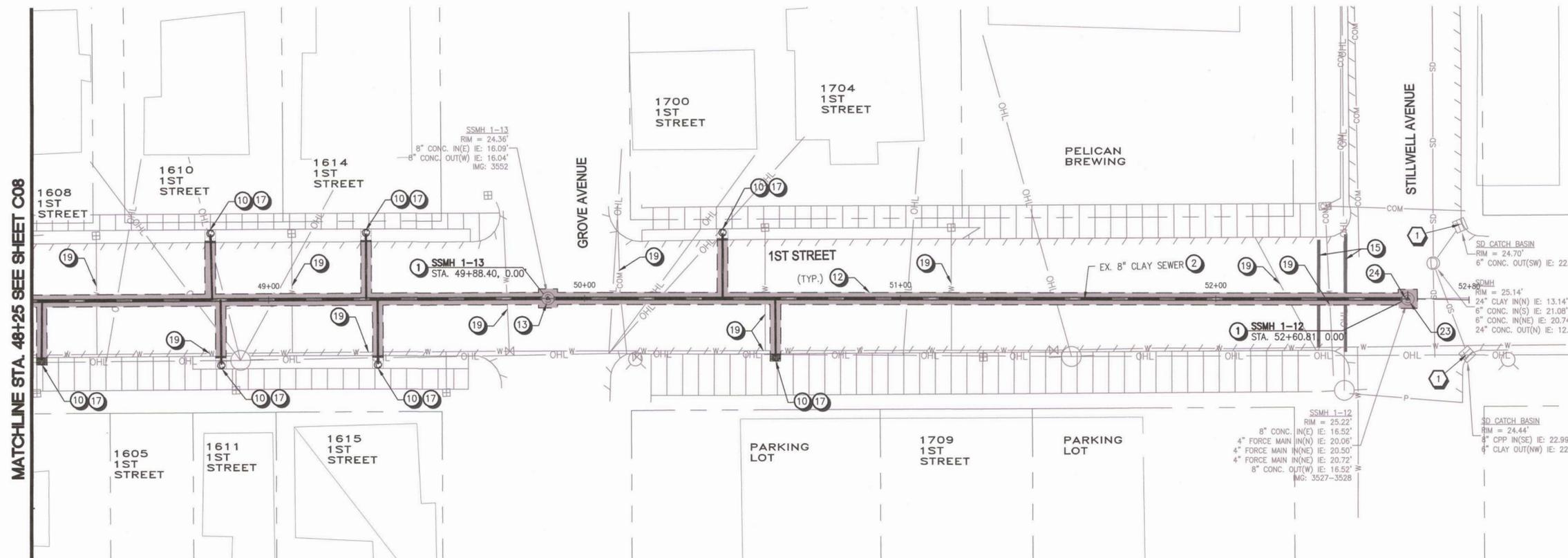
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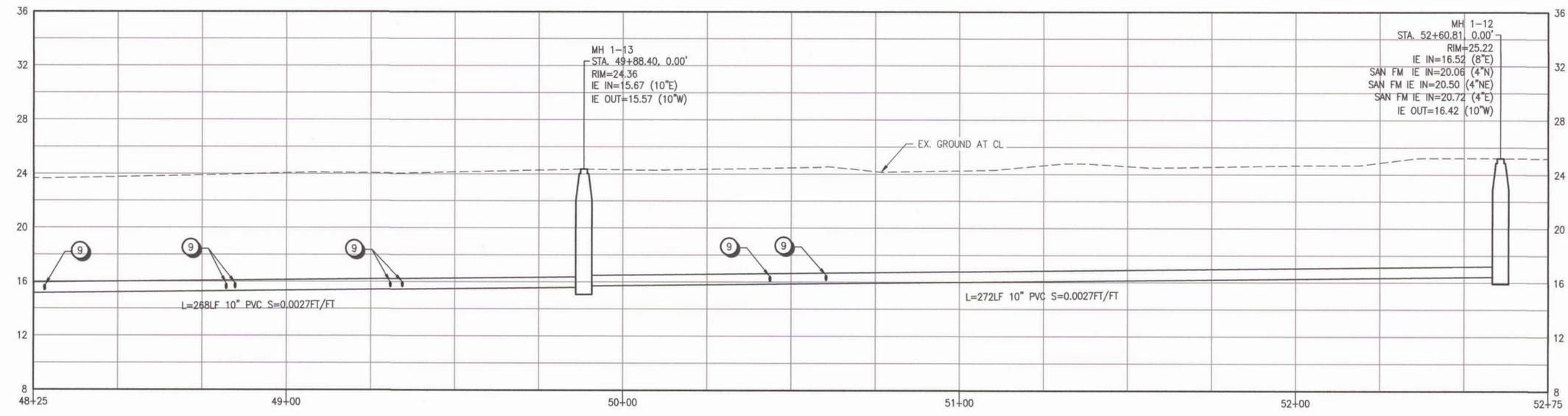


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PLAN



PROFILE

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS

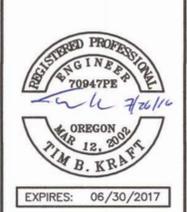
EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- 1 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01.
- 2 REMOVE EXISTING CLAY OR CONCRETE PIPE AND REPLACE WITH GRAVITY SEWER BY OPEN CUT CONSTRUCTION METHODS PER COT STD DWG 590 ON SHEET D02. SEE PROFILE FOR PROPOSED PIPE SIZE AND MATERIAL TYPE.
- 9 INSTALL TEE, REMOVE EXISTING LATERAL AND REPLACE WITH 4" PVC PIPE FROM REHABILITATED SEWER MAIN TO RIGHT-OF-WAY LINE, PER COT STD DWGS 520 AND 590 ON SHEET D02.
- 10 INSTALL SANITARY SEWER CLEANOUT AT RIGHT-OF-WAY LINE PER DWG 500 ON SHEET D02 AND CONNECT TO EXIST LATERAL.
- 12 SAWCUT EXISTING ASPHALT PAVEMENT FOR TRENCHING AND RESTORATION. RESURFACE PER COT STD DWG 600 ON SHEET D02.
- 13 APPLY PROTECTIVE EPOXY COATING TO INTERIOR OF MANHOLE AND ASPHALTIC COATING TO EXTERIOR OF MANHOLE.
- 15 REPLACE CROSSWALK STRIPING, SEE SHEET D05.
- 17 RESURFACE DISTURBED LANDSCAPE AND/OR SIDEWALK FEATURES TO MATCH EXISTING CONDITIONS. SEE COT STD DWG 590 ON SHEET D02 FOR BACKFILL REQUIREMENTS AND COT STD DWGS ON SHEET D03 FOR CURB AND SIDEWALK DETAILS.
- 19 EXISTING UTILITY TO REMAIN. CONTRACTOR TO PROTECT AND SUPPORT DURING CONSTRUCTION.
- 23 INSTALL INSIDE DROP FOR LATERAL PIPES 18" OR MORE ABOVE MANHOLE CHANNEL PER COT STD DWG 090 ON SHEET D01.
- 24 REMOVE EXISTING MANHOLE AND INSTALL NEW 48-INCH SEWER MANHOLE PER COT STD DWG 010 ON SHEET D01. MANHOLE SHALL BE FULLY LINED PER SPECIFICATIONS SECTION 00470 WITH WATERTIGHT LOCKING LID. PRIOR TO REMOVING EXISTING MANHOLE, CONTRACTOR SHALL DEVELOP AND SUBMIT A TEMPORARY FORCE MAIN BYPASS PLAN PER SECTION 00490 OF THE SPECIFICATIONS.

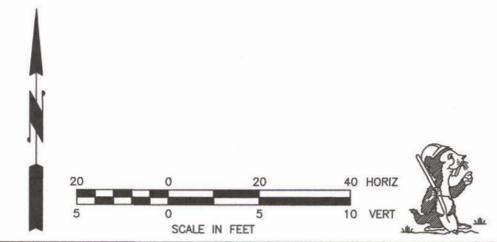
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EXPIRES: 06/30/2017

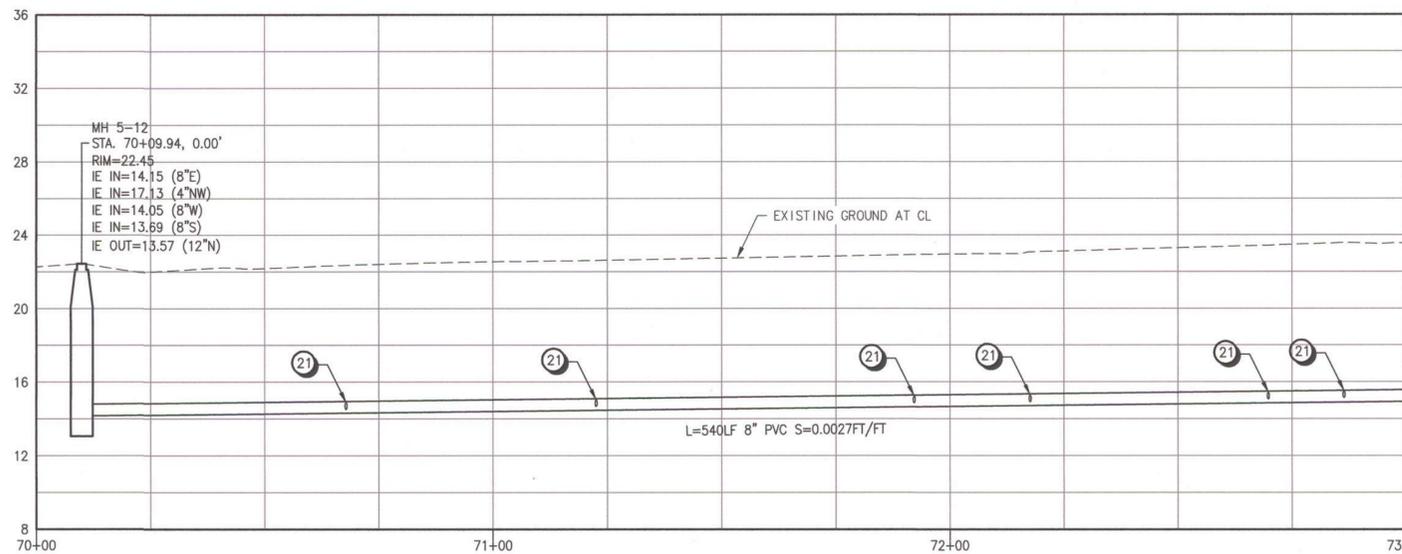
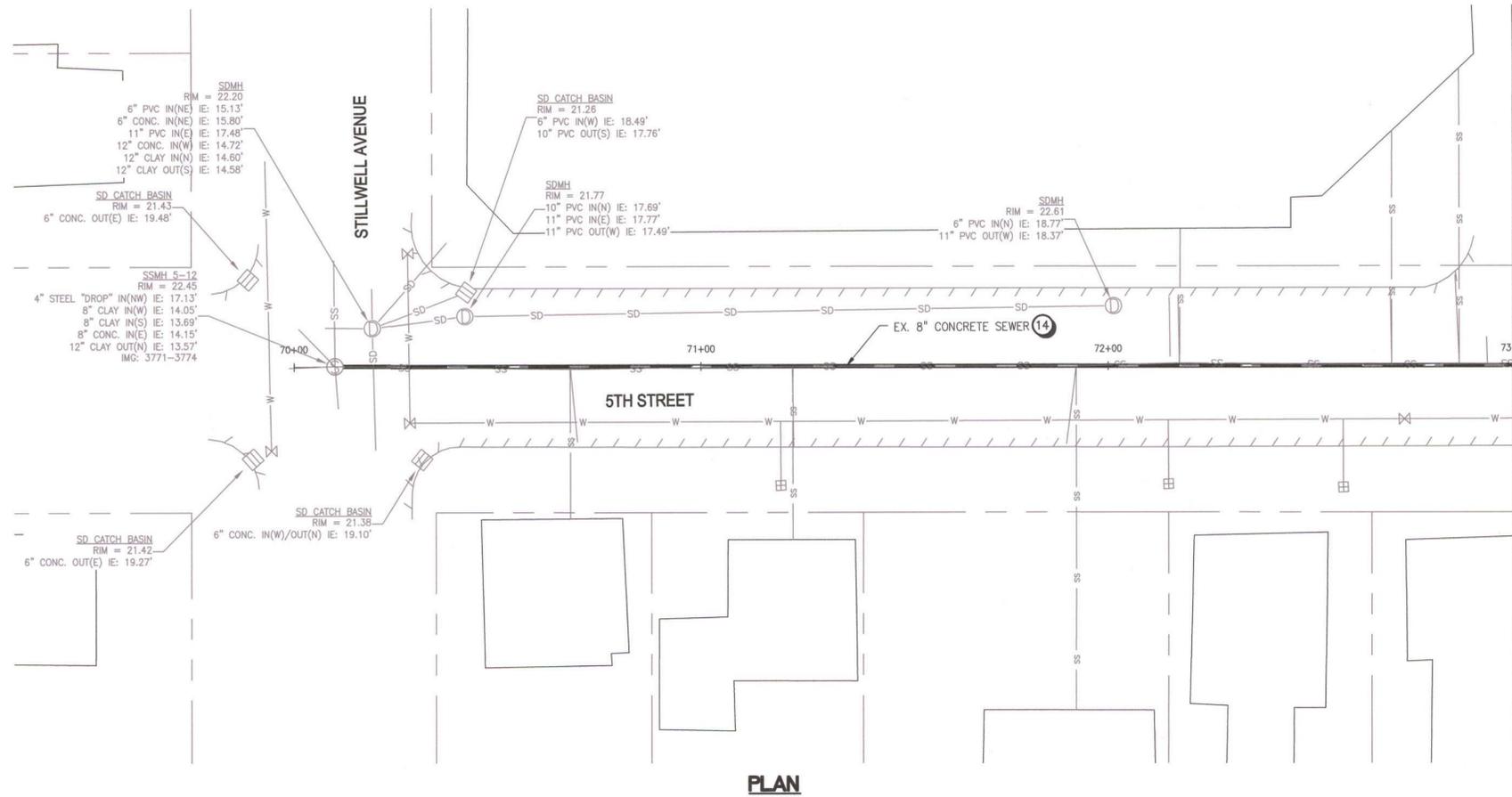
CITY OF TILLAMOOK
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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 21 VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.

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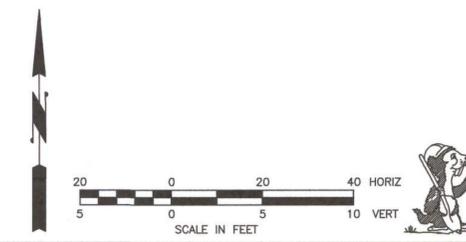
REGISTERED PROFESSIONAL ENGINEER
 70947PE
 OREGON
 M.E. 12, 2002
 TIM B. KRAFT

EXPIRES: 06/30/2017

CITY OF TILLAMOOK
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 PLAN AND PROFILE
 5TH STREET STA. 70+00 TO 73+00
 TILLAMOOK, TILLAMOOK COUNTY, OR

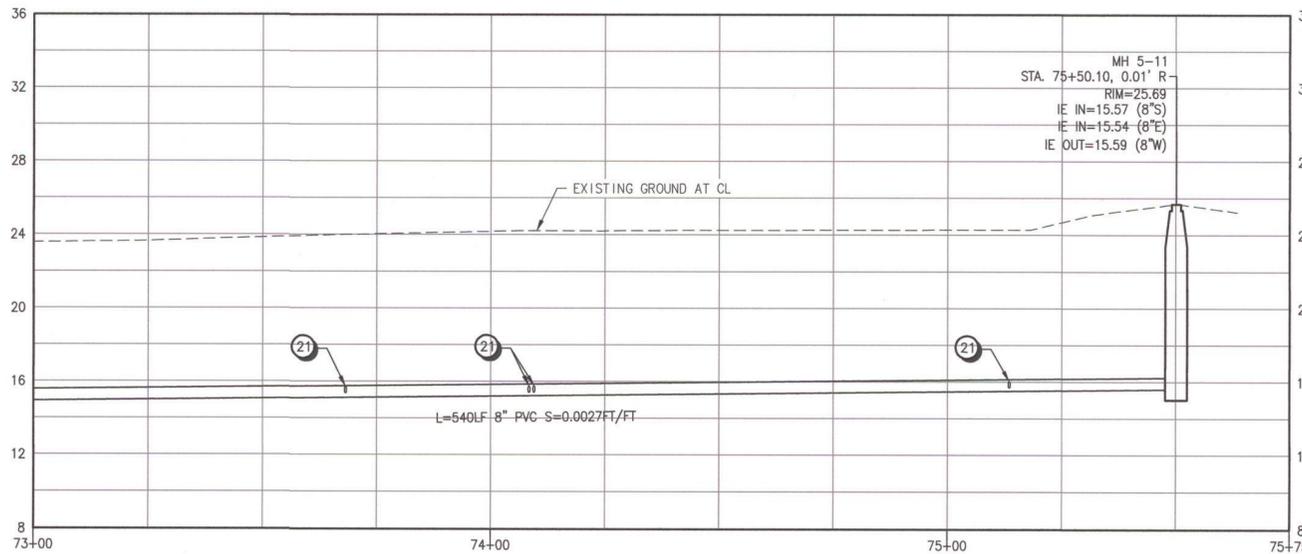
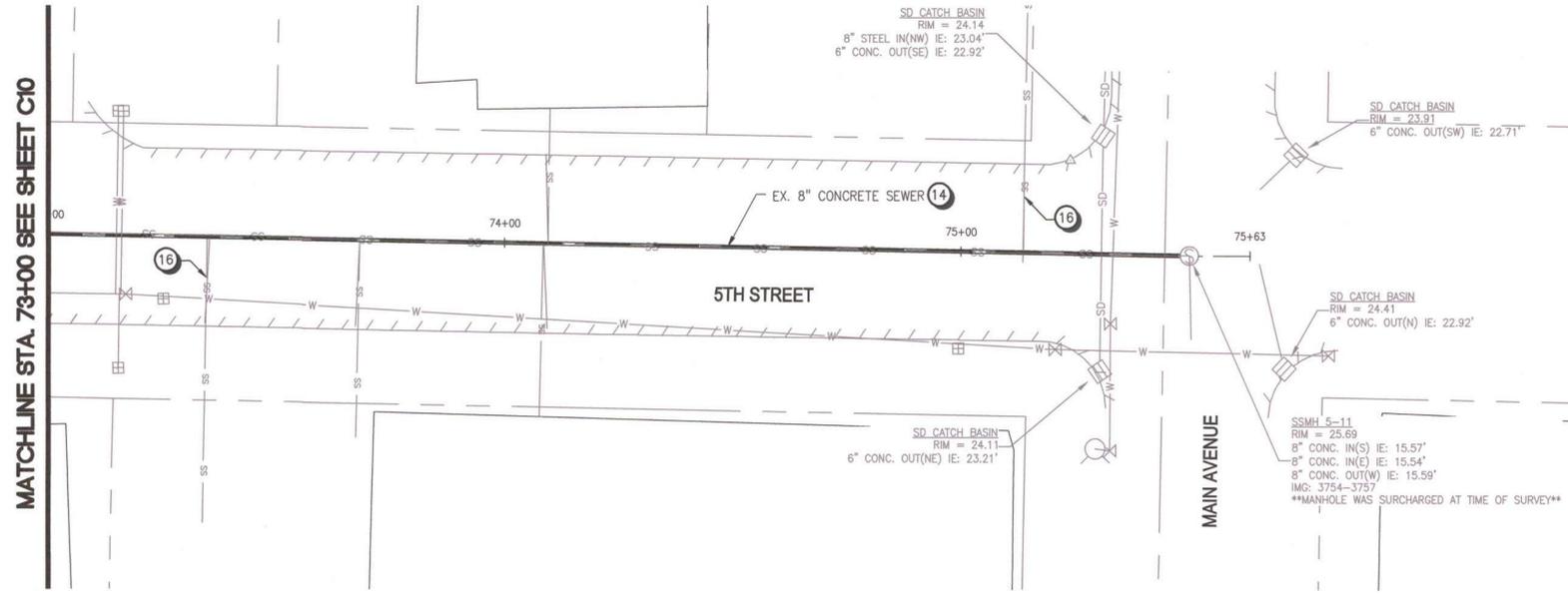
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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

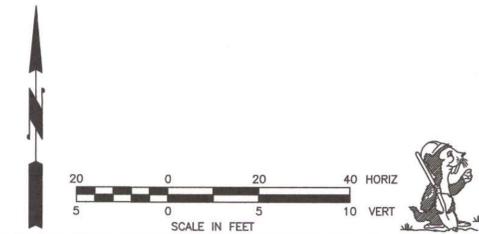
- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.
- 21 VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.



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 PLAN AND PROFILE
 5TH STREET STA. 73+00 TO 75+75
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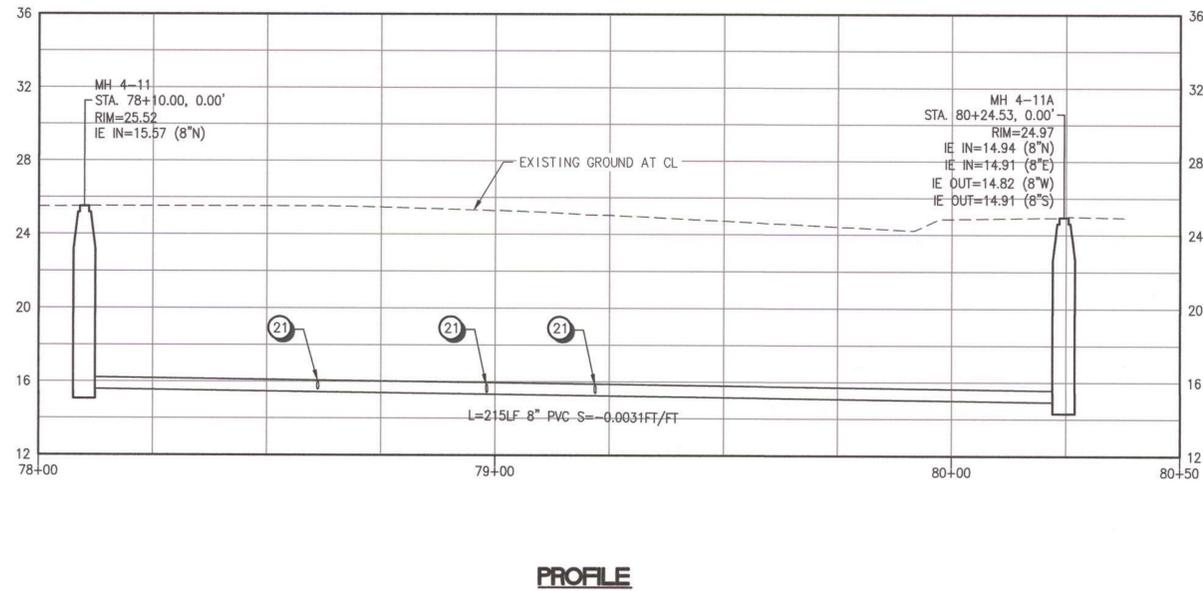
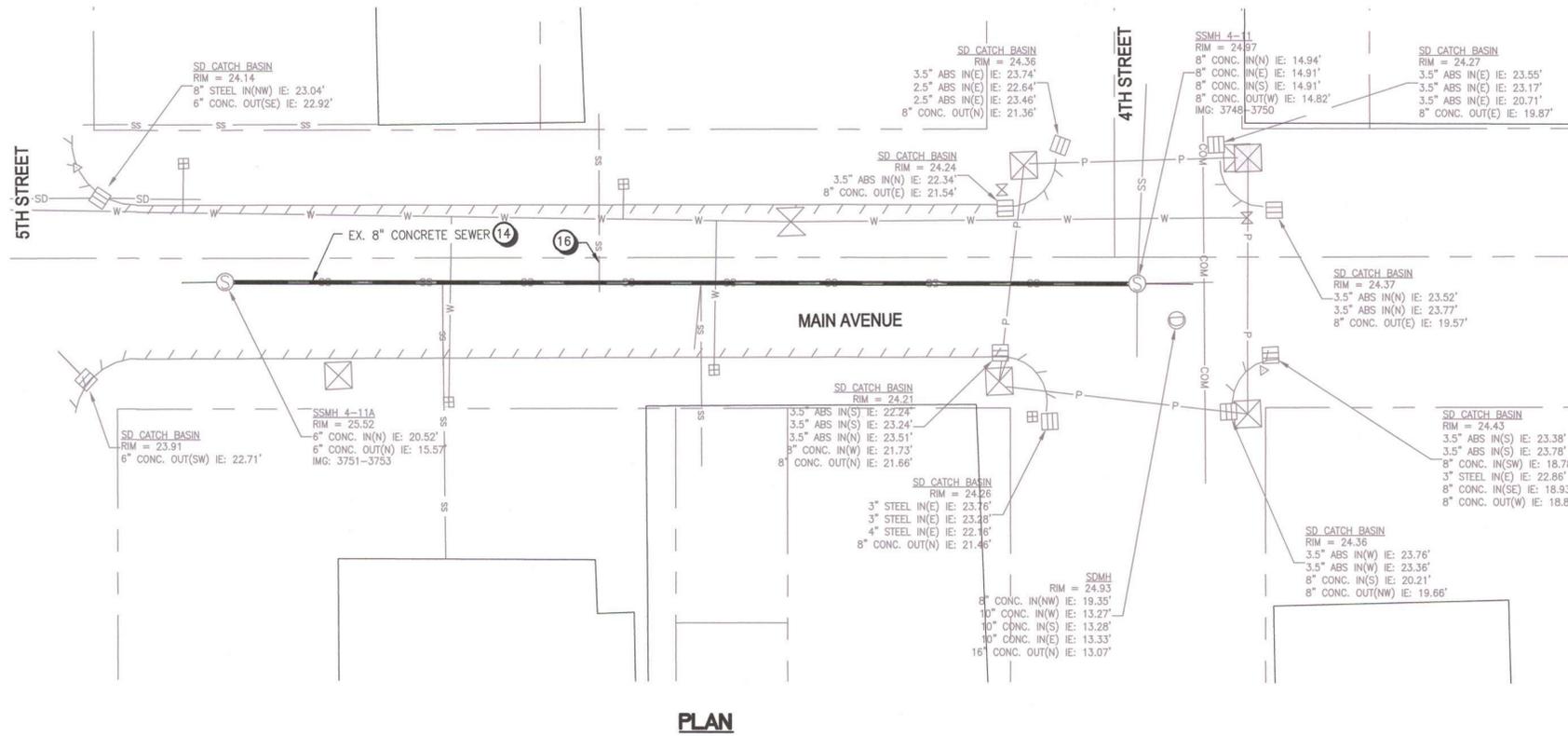
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Project No.
C11
 Sheet No. 16 of 47



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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

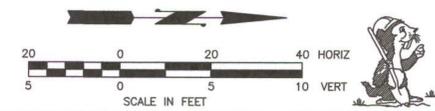
KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.
- 21 VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.

NO.	DATE	BY	Checked	REVISIONS	Approval

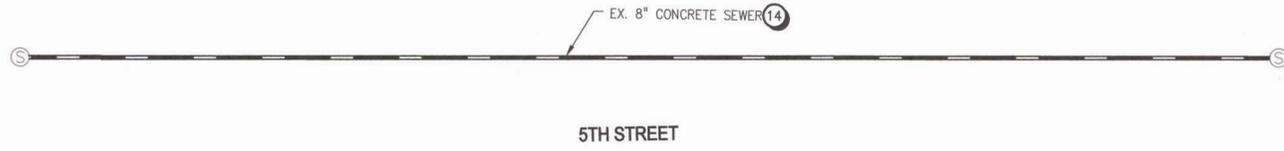


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TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
MAIN AVENUE STA. 78+00 TO 80+50
TILLAMOOK, TILLAMOOK COUNTY, OR



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 37



PACIFIC AVENUE

LAUREL AVENUE

5TH STREET

EX. 8" CONCRETE SEWER (14)

PLAN

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.
- 5 LATERAL LOCATION AND SIZES UNKNOWN. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS DURING PRE-LINE VIDEO INSPECTION WORK.

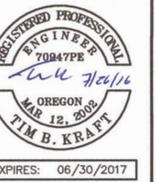
EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

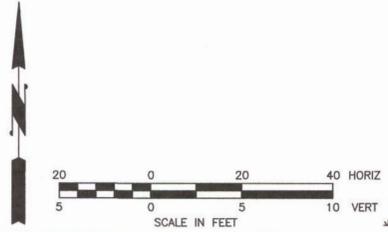
KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.

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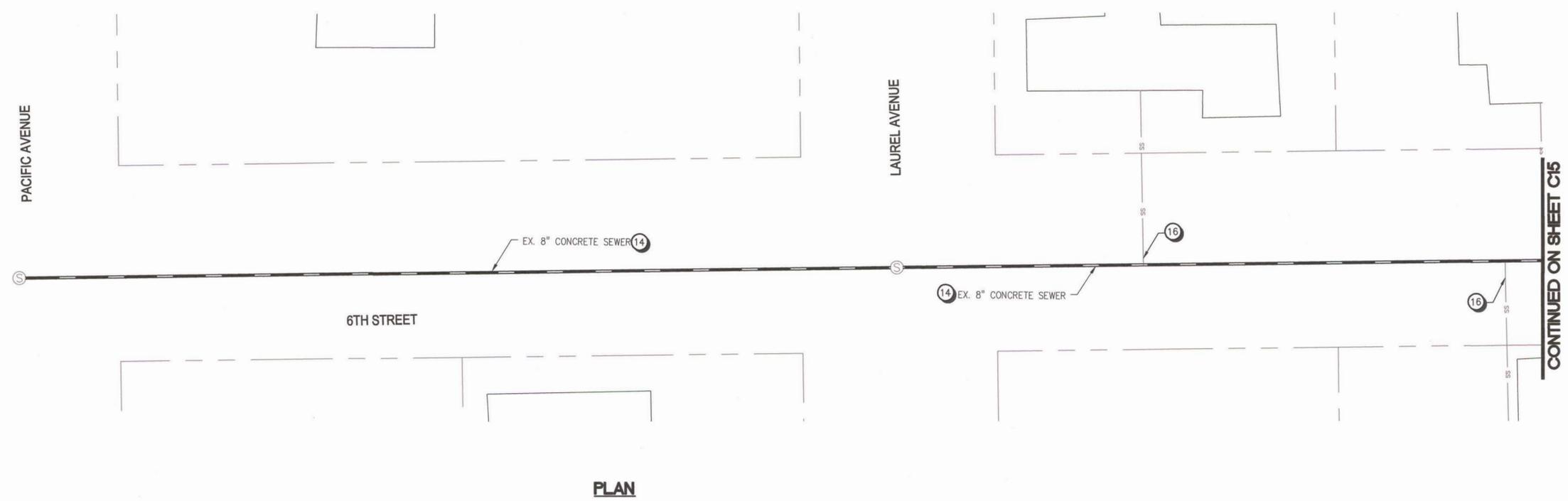


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TILLAMOOK, TILLAMOOK COUNTY, OR



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PLAN

CONTINUED ON SHEET C15

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.
- 5 LATERAL LOCATION AND SIZES UNKNOWN. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS DURING PRE-LINE VIDEO INSPECTION WORK.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

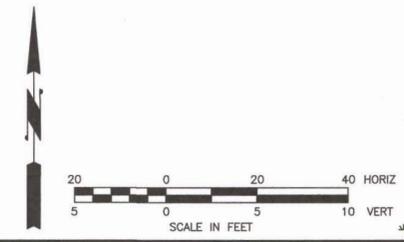
KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.

NO.	DATE	BY	Checked & Approval

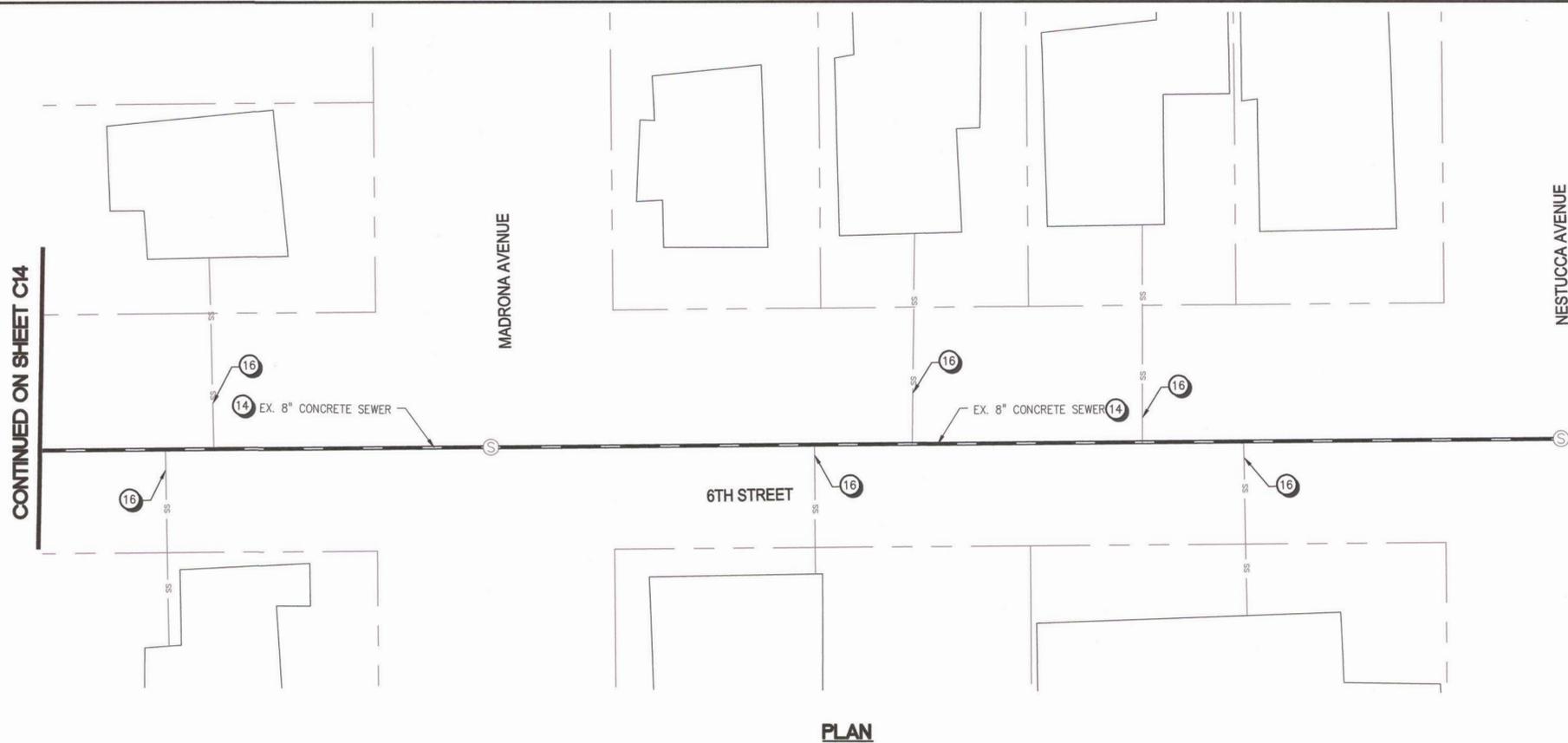


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PLAN

CONTINUED ON SHEET C14

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.
- 5 LATERAL LOCATION AND SIZES UNKNOWN. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS DURING PRE-LINE VIDEO INSPECTION WORK.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

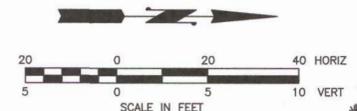
- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.

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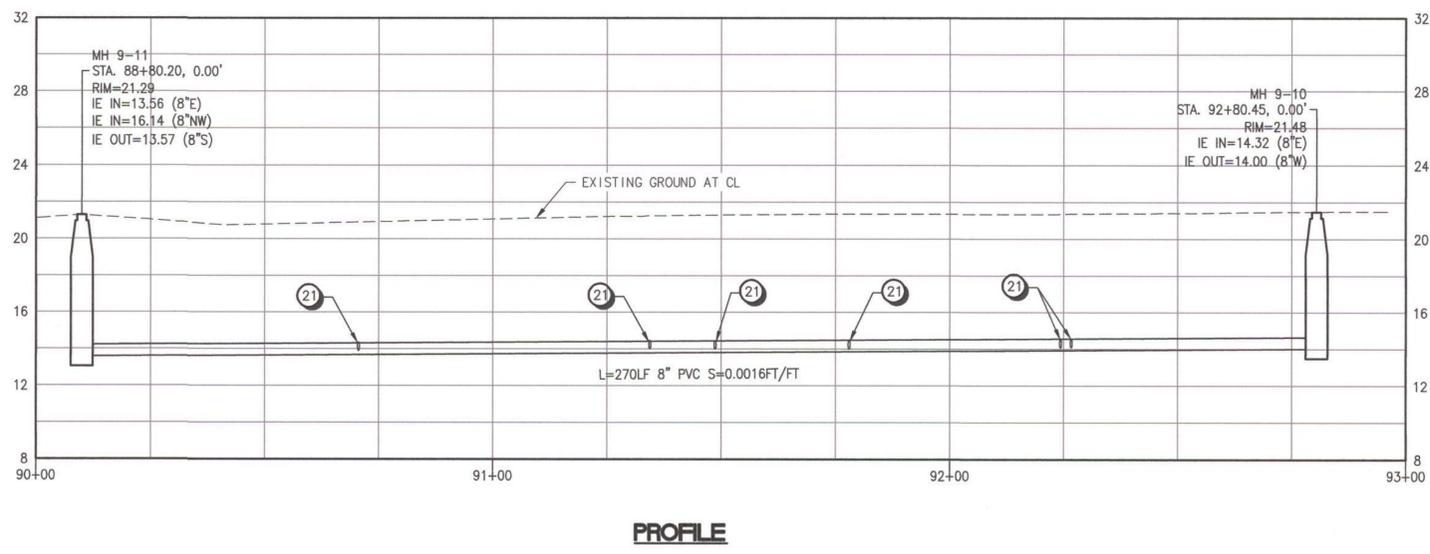
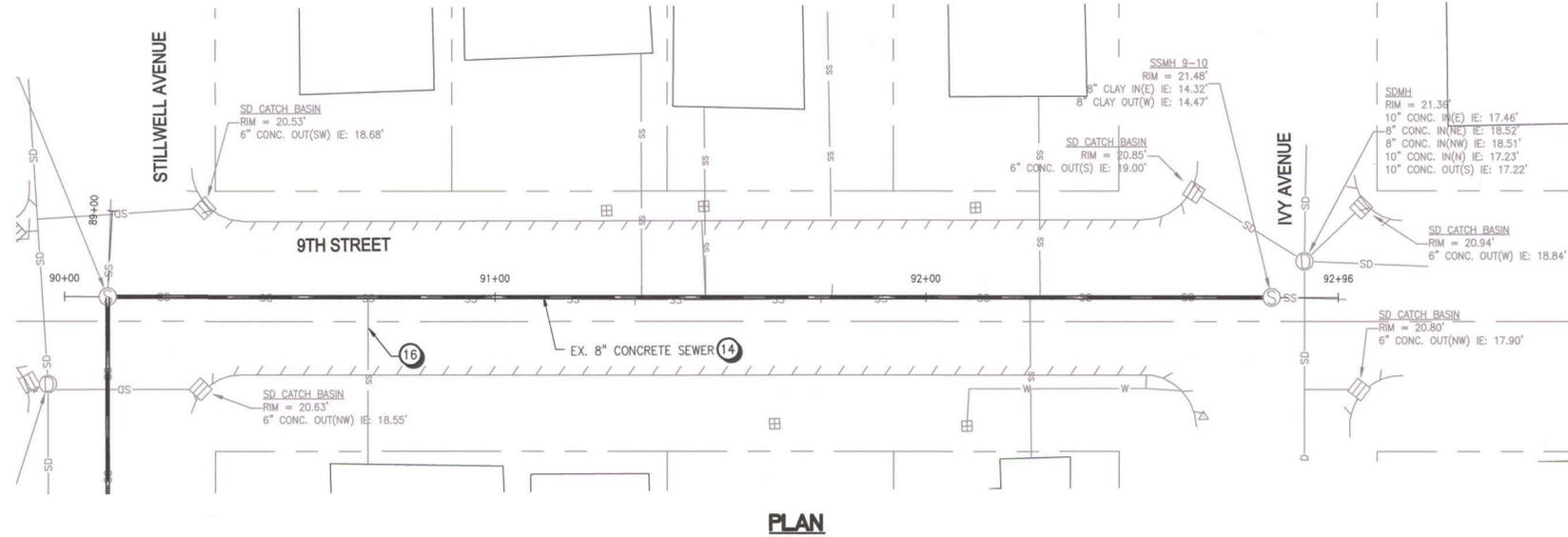
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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

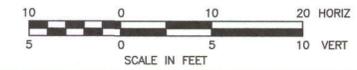
KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.
- 21 VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.

NO.	DATE	BY	Checked & Approved

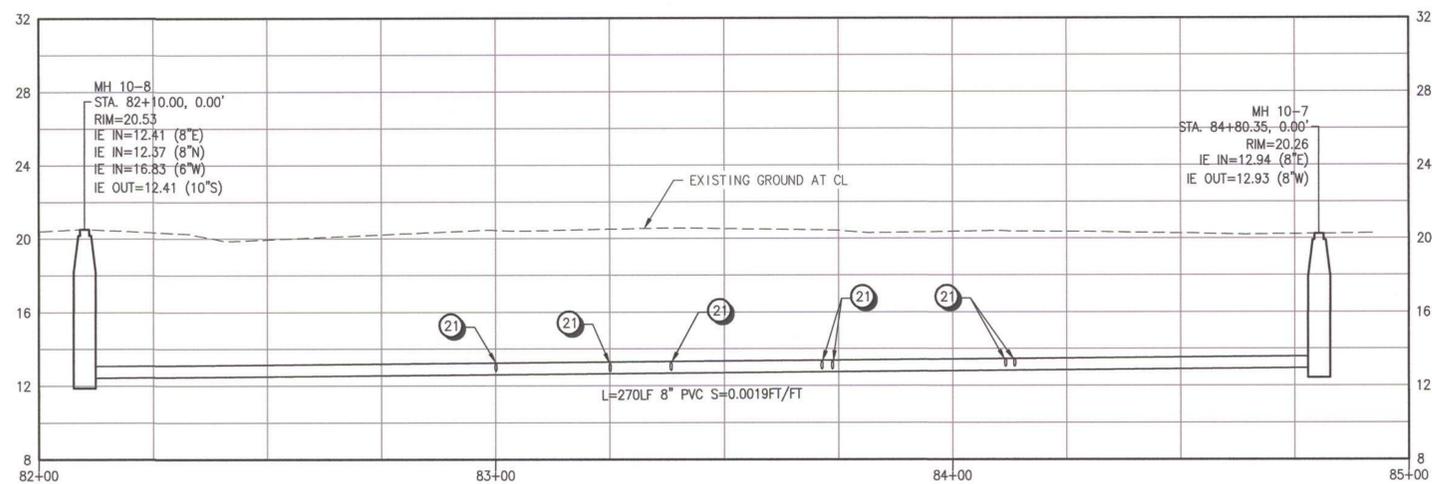
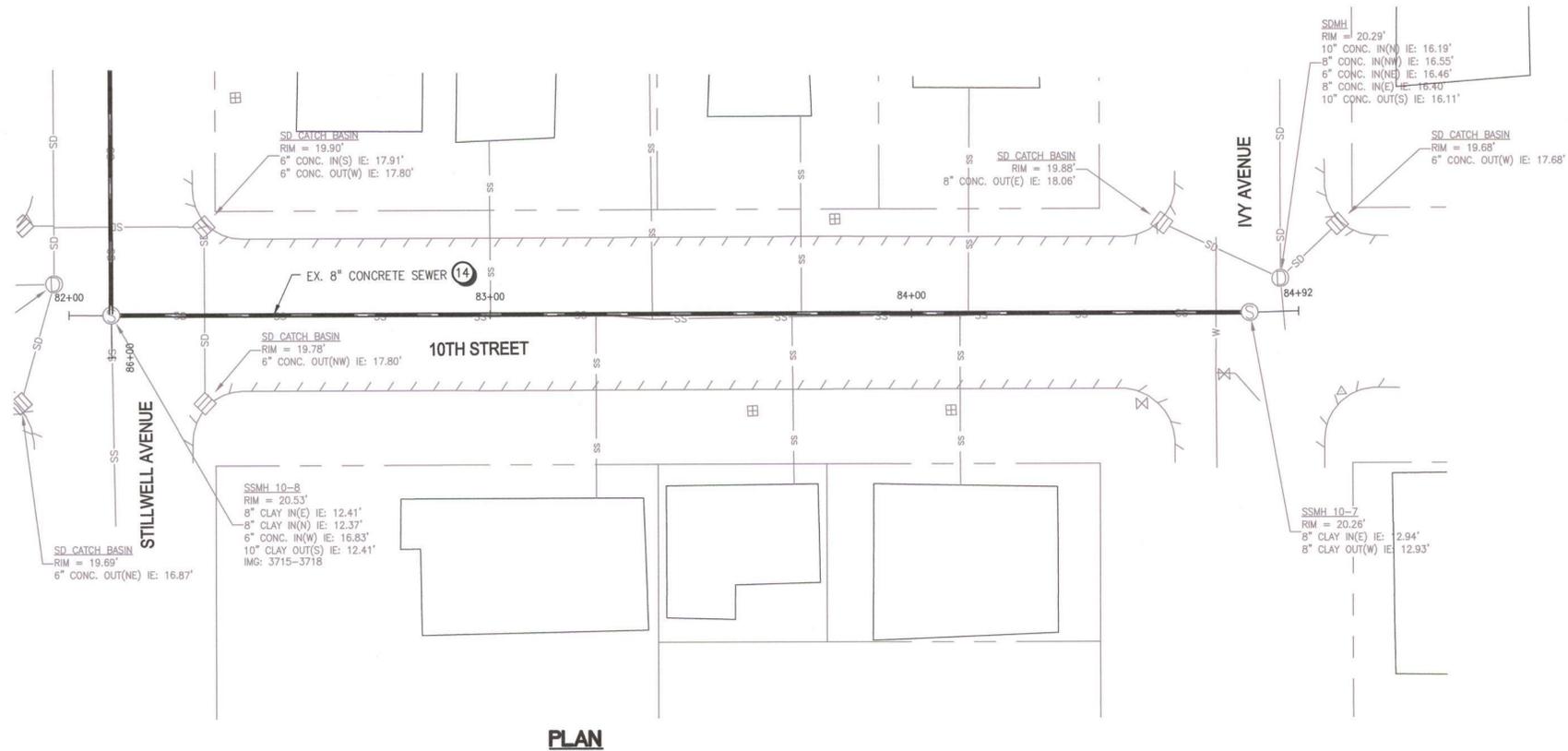


CITY OF TILLAMOOK
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9TH STREET STA. 90+00 TO 93+00
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GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

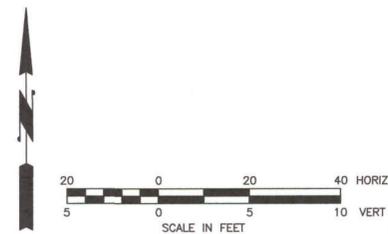
KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 21 VERIFY EXISTING LATERAL SIZE AND MATERIAL TYPE VIA PRE-LINE INSPECTION PER SPECIFICATIONS SECTIONS 00410 AND 00415. AFTER MAINLINE CIPP WORK IS ACCEPTED, RECONNECT SERVICE LINE AND GROUT LATERAL CONNECTION.

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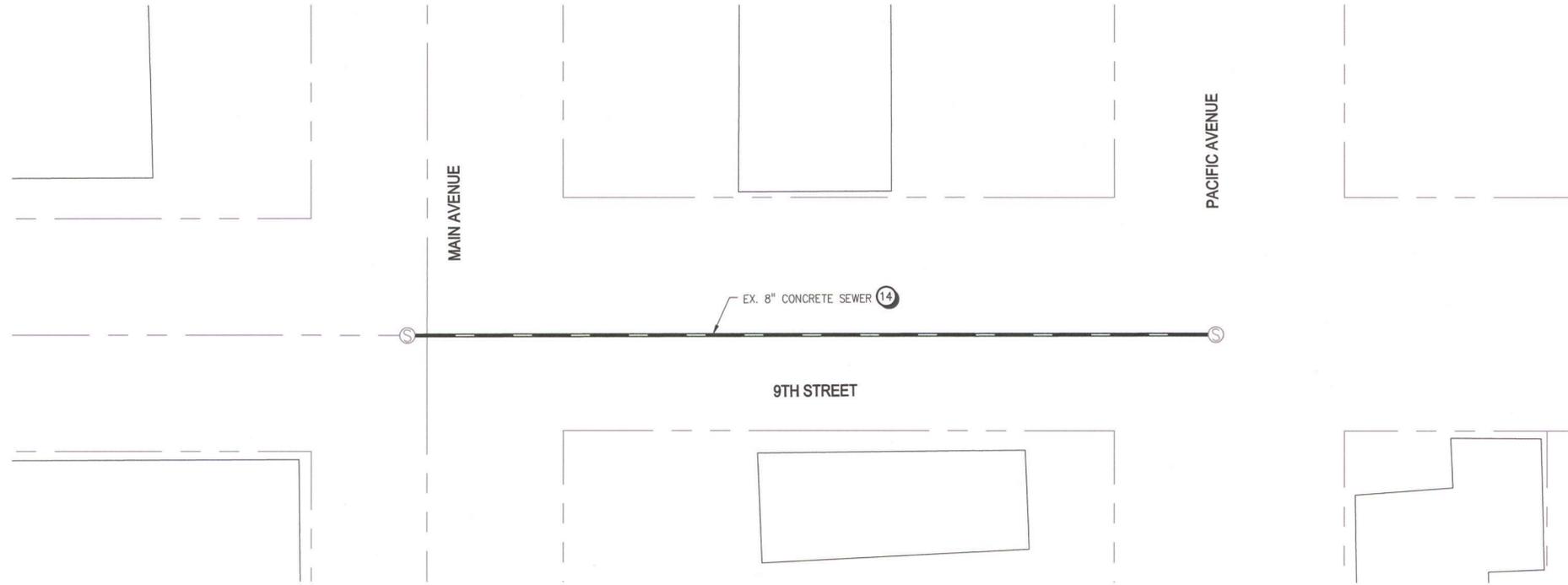


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
10TH STREET STA. 82+00 TO 85+00
TILLAMOOK, TILLAMOOK COUNTY, OR



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PLAN

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL
- 2 LOCATIONS OF LATERALS ARE APPROXIMATE AND ARE BASED ON MEASUREMENTS REPORTED IN TV INSPECTION VIDEOS
- 3 SEE SHEET D05 FOR GRIND AND INLAY PAVEMENT RESTORATION EXTENTS
- 4 00410 AND 00412 OF THE SPECIFICATIONS FOR CURED IN PLACE PIPE LINING REQUIREMENTS.
- 5 LATERAL LOCATION AND SIZES UNKNOWN. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS DURING PRE-LINE VIDEO INSPECTION WORK.

EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

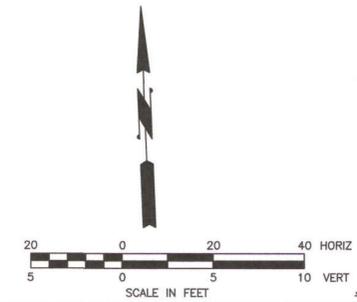
- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
STILLWELL AVENUE STA. 86+00 TO 89+00
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Project No.
C18
 Sheet No. 23 of 47



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GENERAL NOTES

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EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
- 16 LATERAL LOCATION ASSUMED, NOT VERIFIED BY VIDEO INSPECTION.

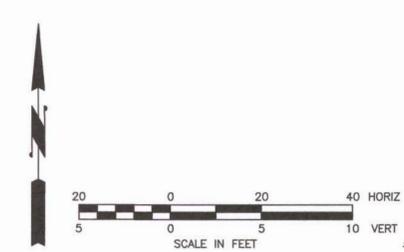


PLAN

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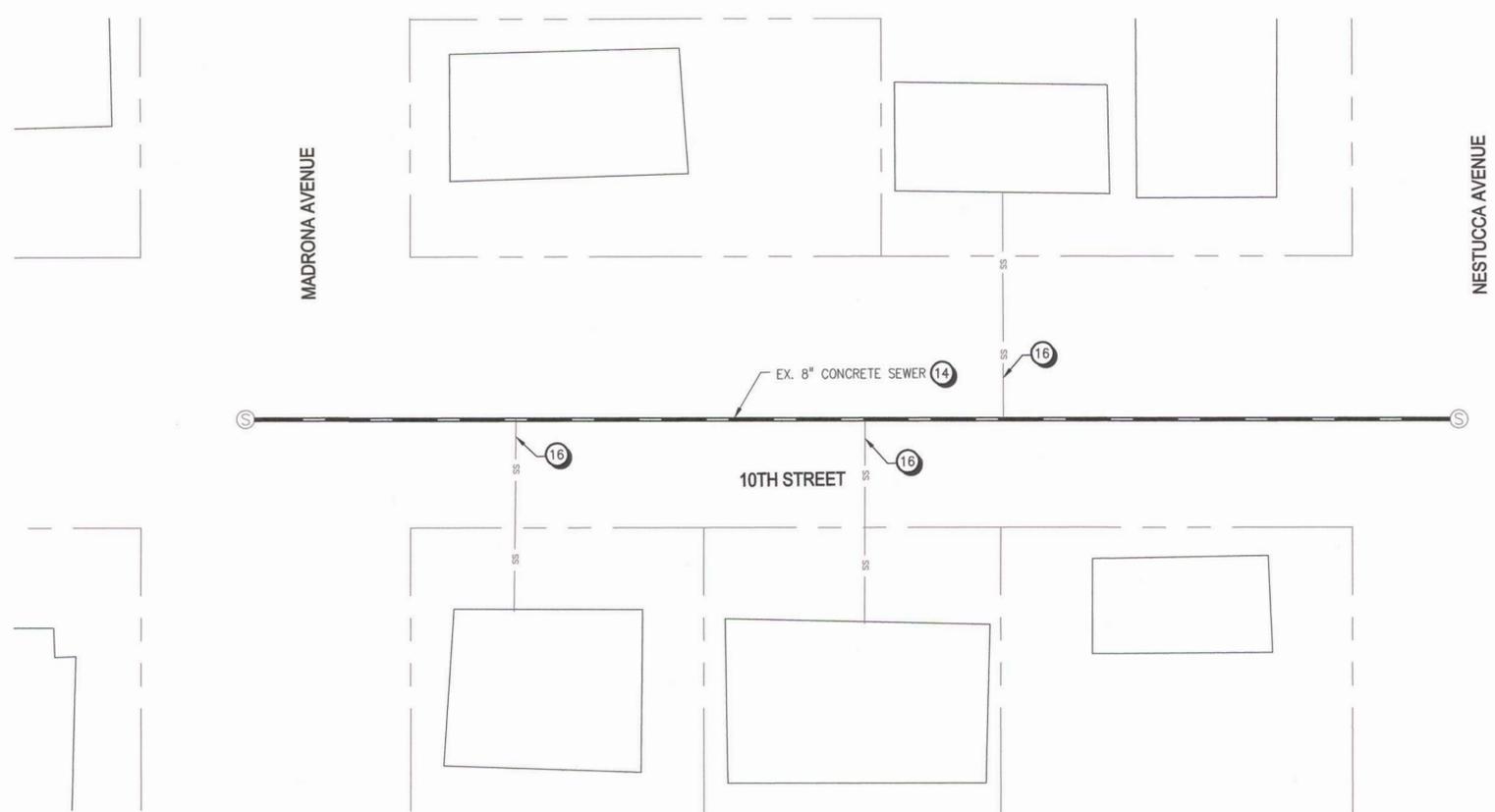


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
8TH STREET STA. 94+00 TO 98+00
TILLAMOOK, TILLAMOOK COUNTY, OR



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PLAN

GENERAL NOTES

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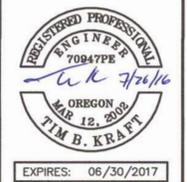
EROSION CONTROL NOTES

- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

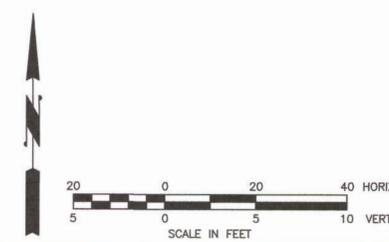
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NO.	DATE	BY	Checked & Approval	Initial Issue by :

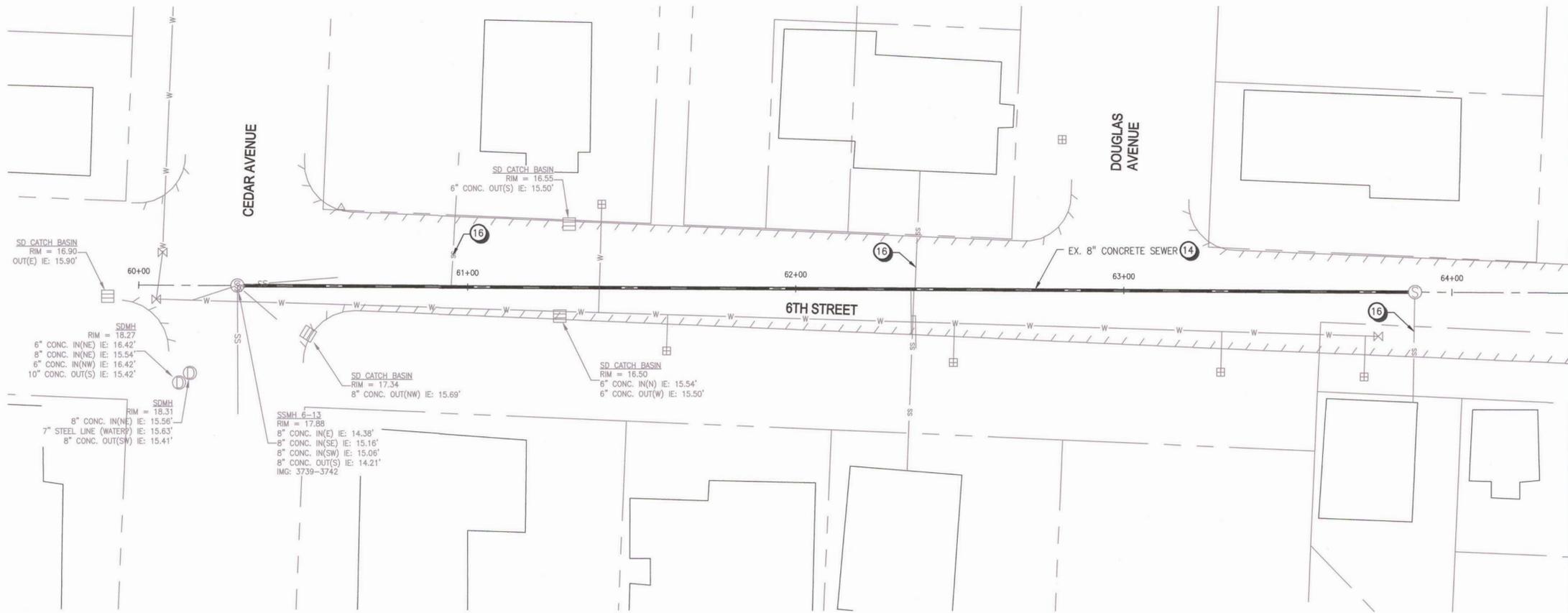


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
6TH STREET STA. 103+00 TO 107+50
TILLAMOOK, TILLAMOOK COUNTY, OR

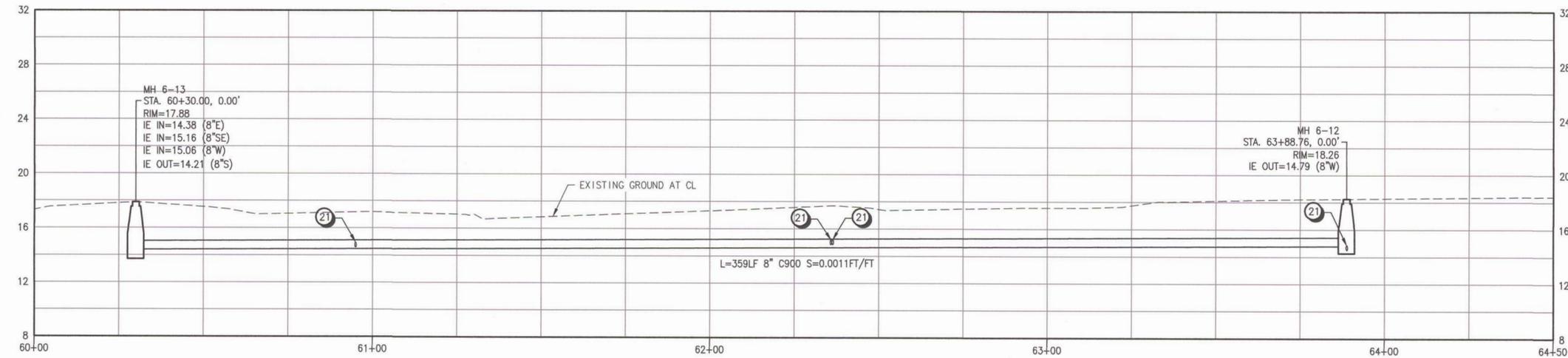


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PLAN



PROFILE

MATCHLINE STA. 64+50 SEE SHEET C22

GENERAL NOTES

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EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

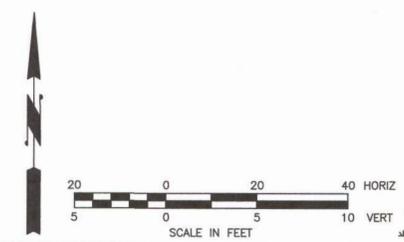
- REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
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Initial Issue by:	
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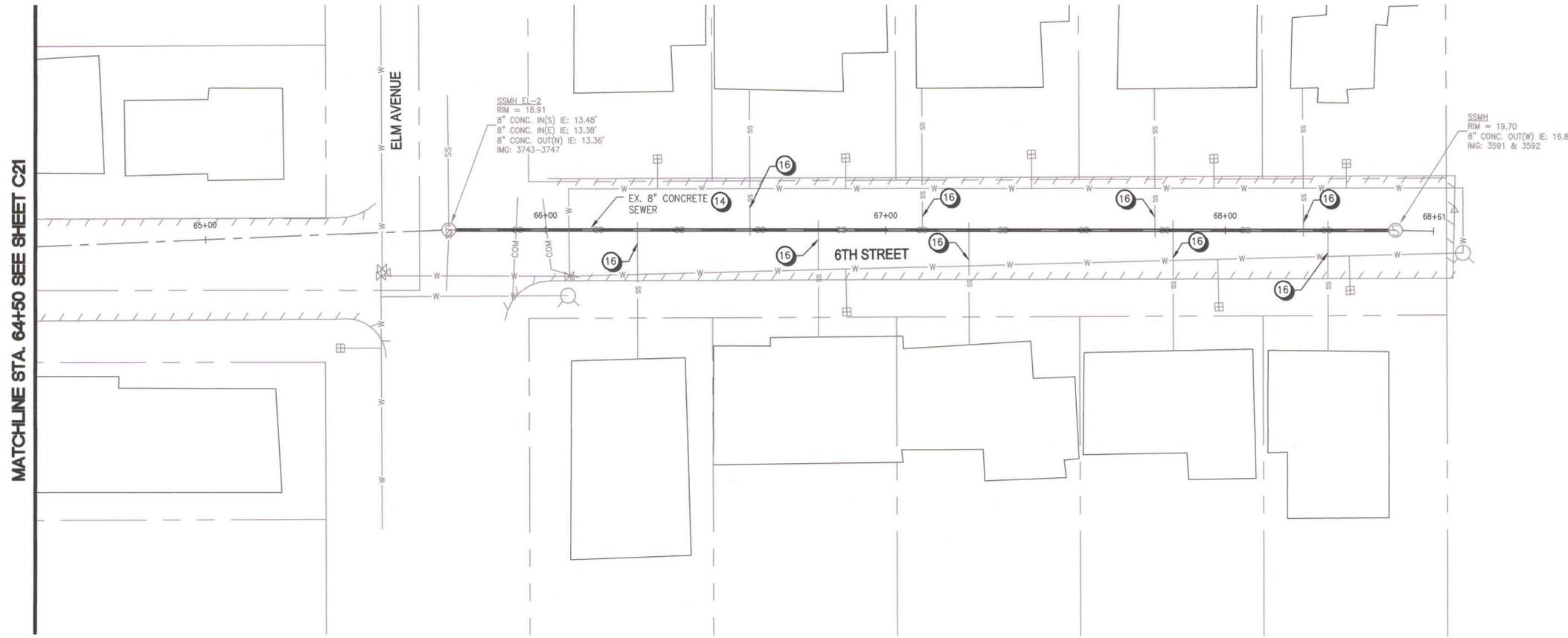
CITY OF TILLAMOOK
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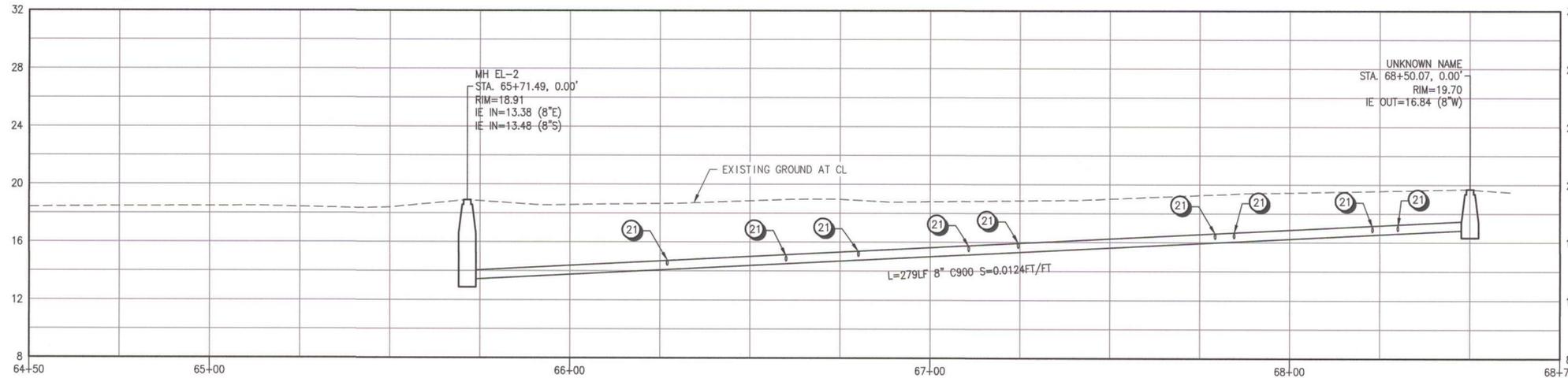


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PLAN



PROFILE

GENERAL NOTES

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Project No.
C22
 Sheet No. 27 of 47

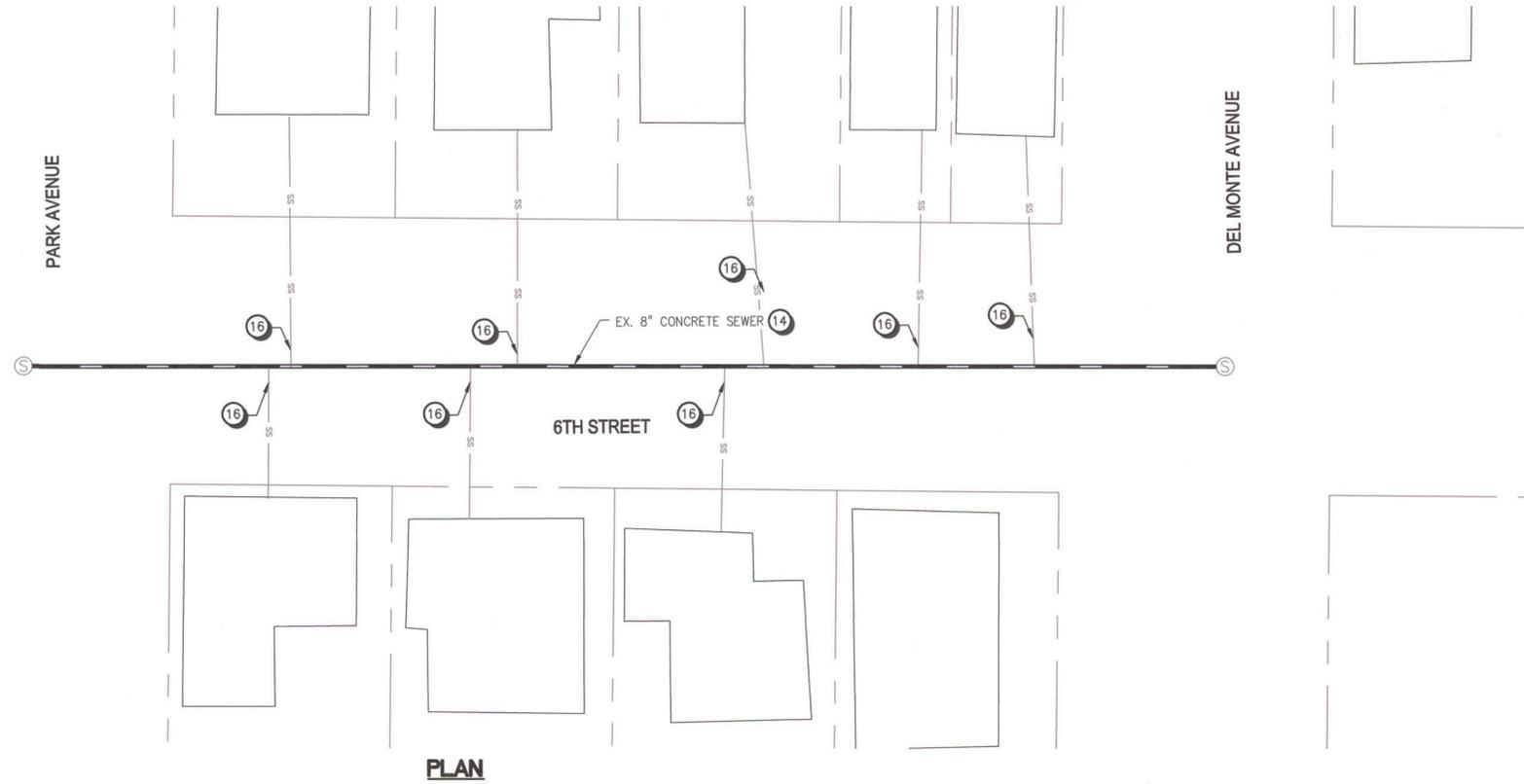


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MATCHLINE STA. 98+00 SEE SHEET C19



PLAN

GENERAL NOTES

- 1 SEE SURVEY CONTROL PLANS ("SC" SHEETS) FOR DEFINITION OF CONSTRUCTION BASELINE STATIONING AND VERTICAL CONTROL.
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- 1 INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- 2 SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

KEY NOTES

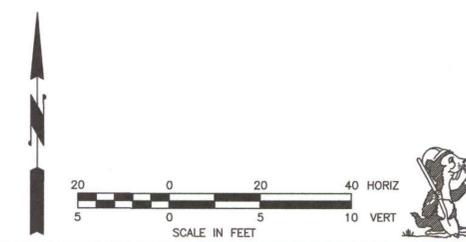
- 14 REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.
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CITY OF TILLAMOOK
 TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
 PLAN AND PROFILE
 8TH STREET STA. 98+00 TO 102+00
 TILLAMOOK, TILLAMOOK COUNTY, OR

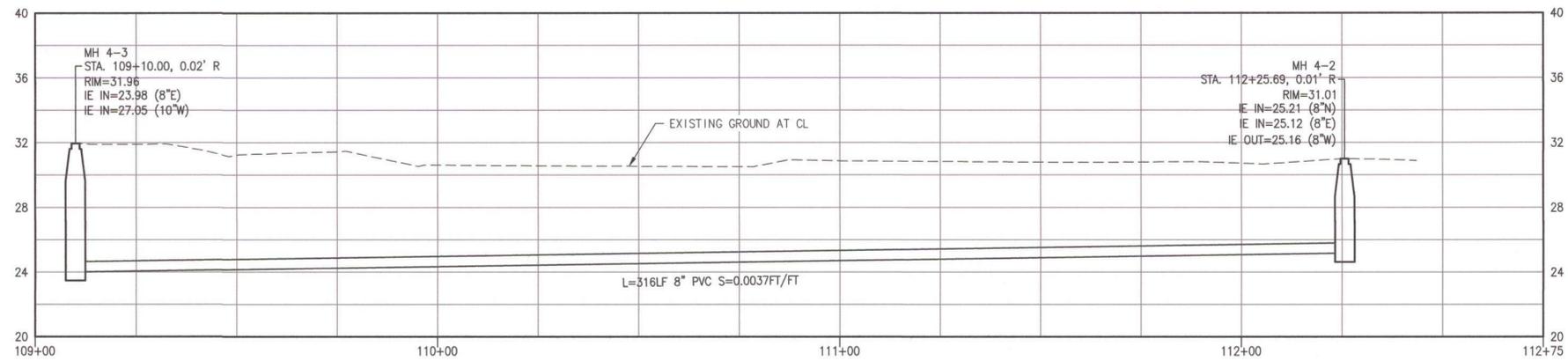
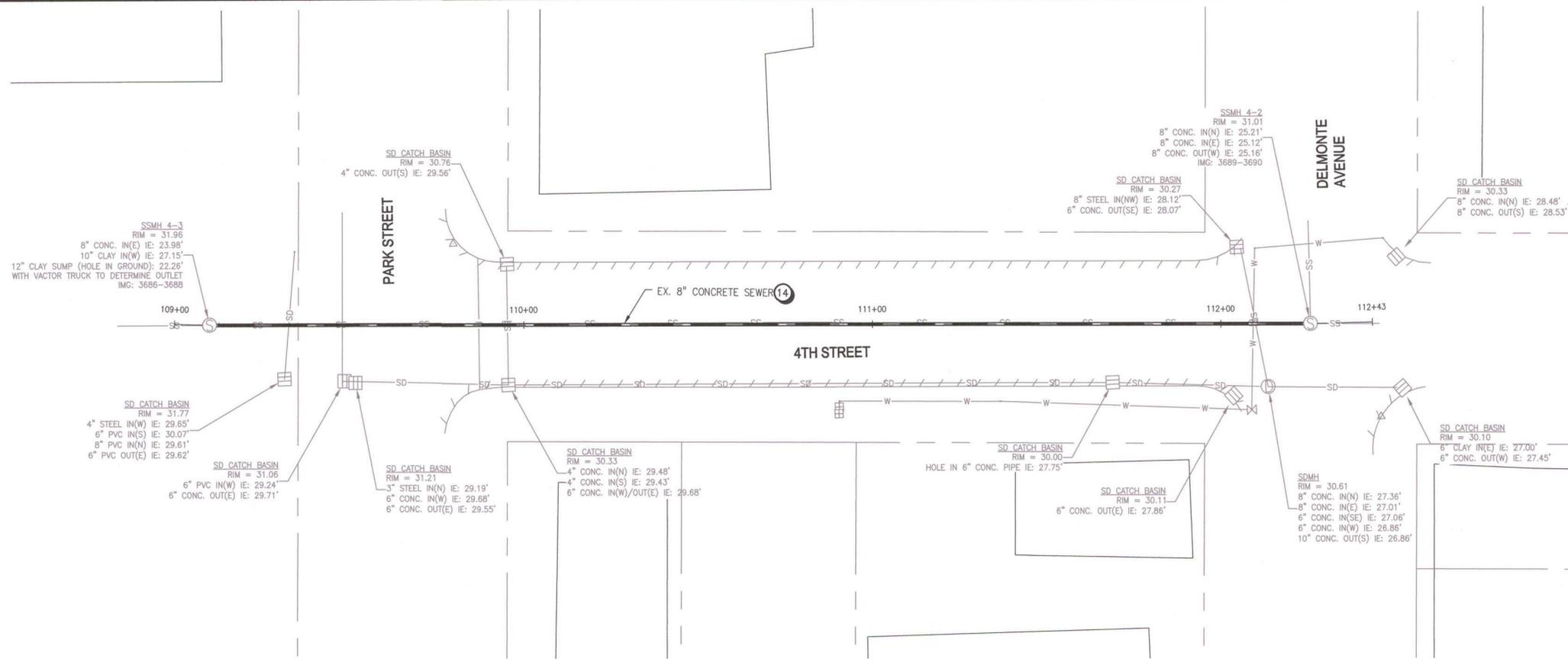
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C23
 Sheet No. 28 of 47



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GENERAL NOTES

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EROSION CONTROL NOTES

- INLET PROTECTION PER STD DWG RD1015 ON SHEET D04
- SEDIMENT FENCE PER STD DWG RD1040 ON SHEET D04

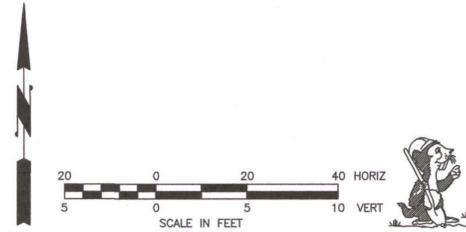
KEY NOTES

- REHABILITATE EX. GRAVITY SEWER PIPE BY CIPP METHODS.

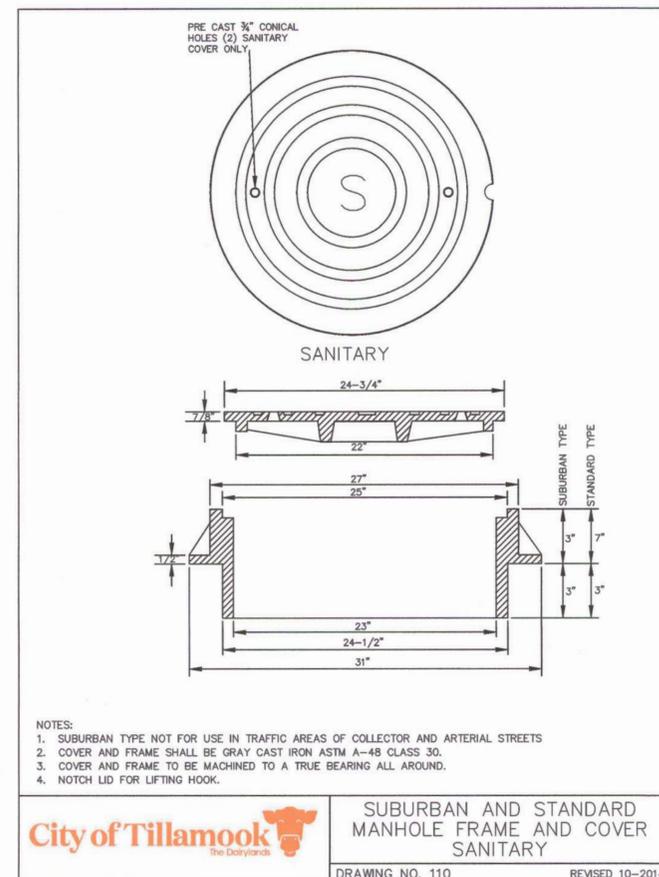
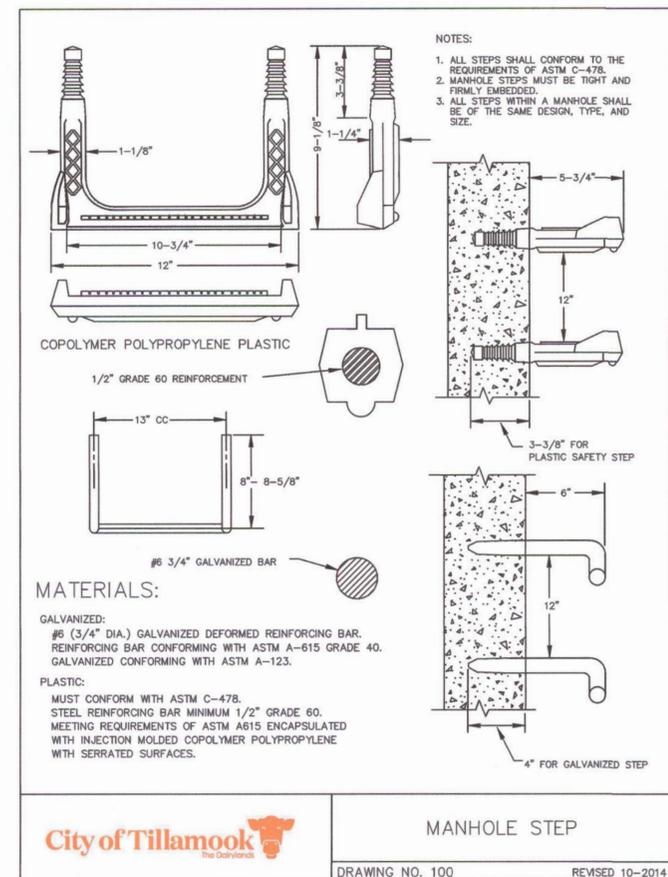
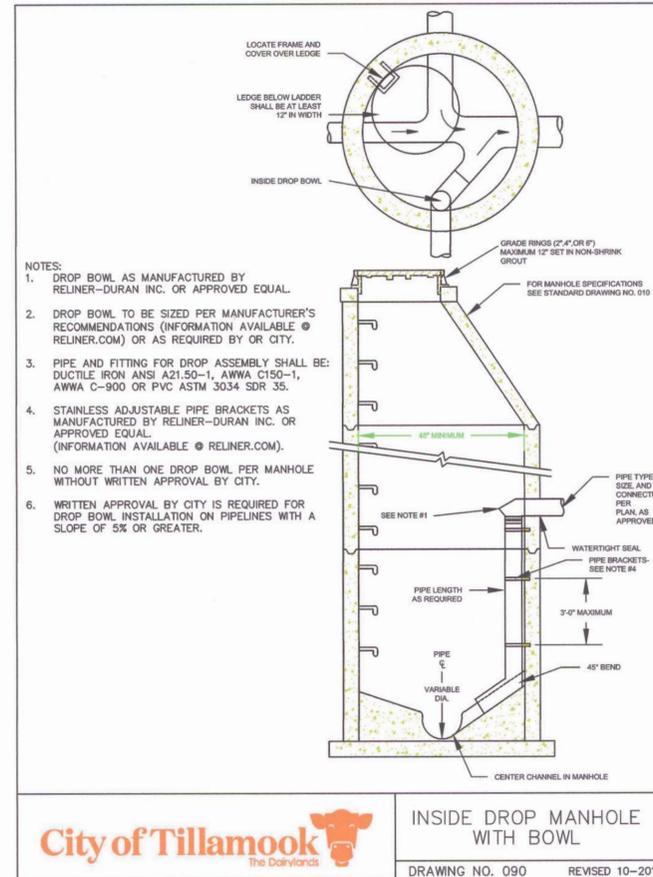
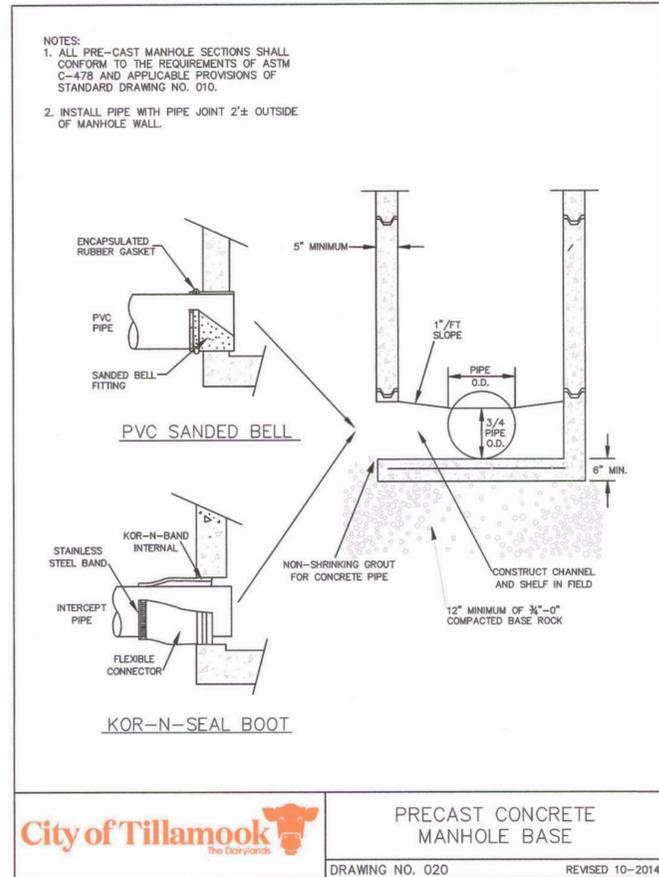
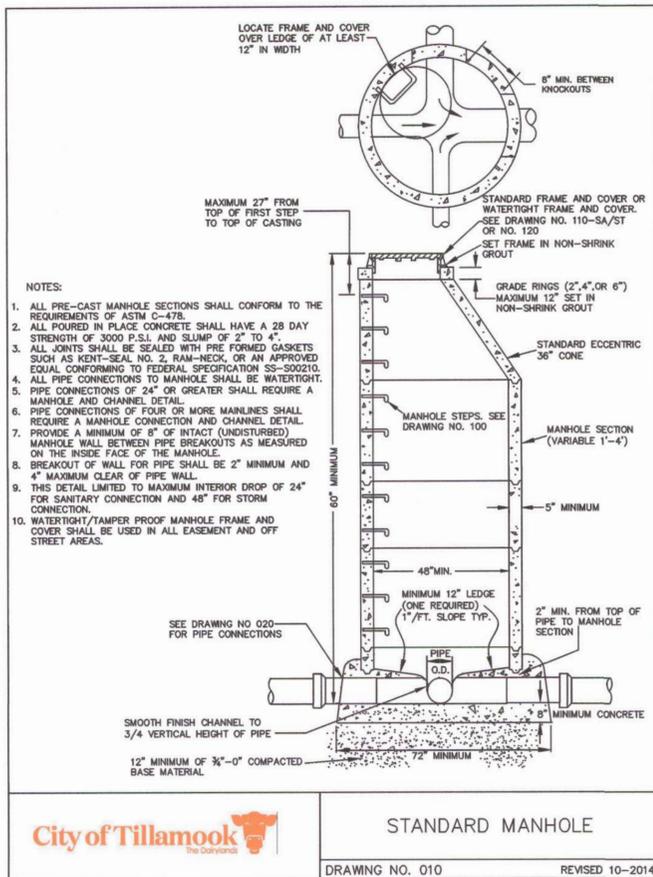
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TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PLAN AND PROFILE
4TH STREET STA. 109+00 TO 112+25
TILLAMOOK, TILLAMOOK COUNTY, OR



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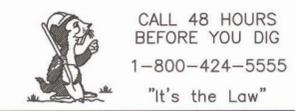


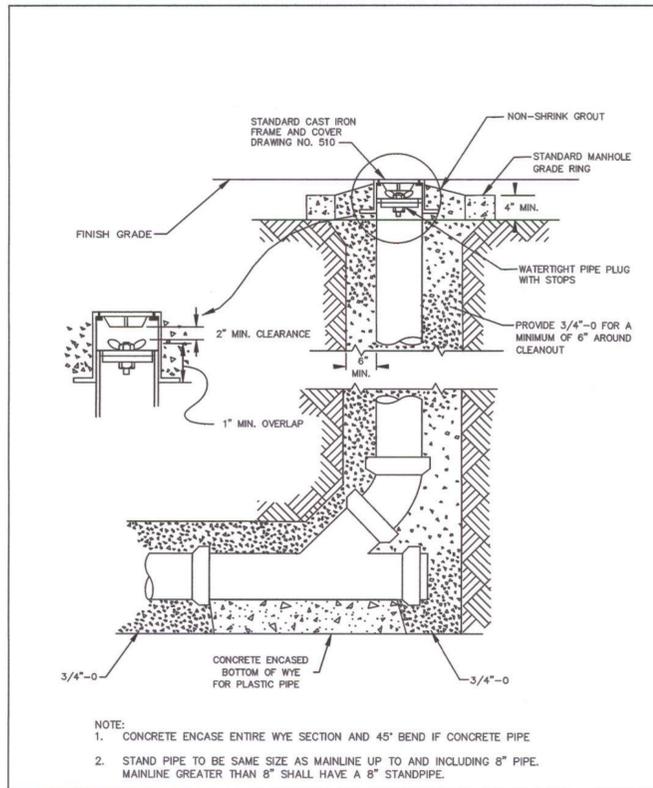
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STANDARD DETAILS
TILLAMOOK, TILLAMOOK COUNTY, OR

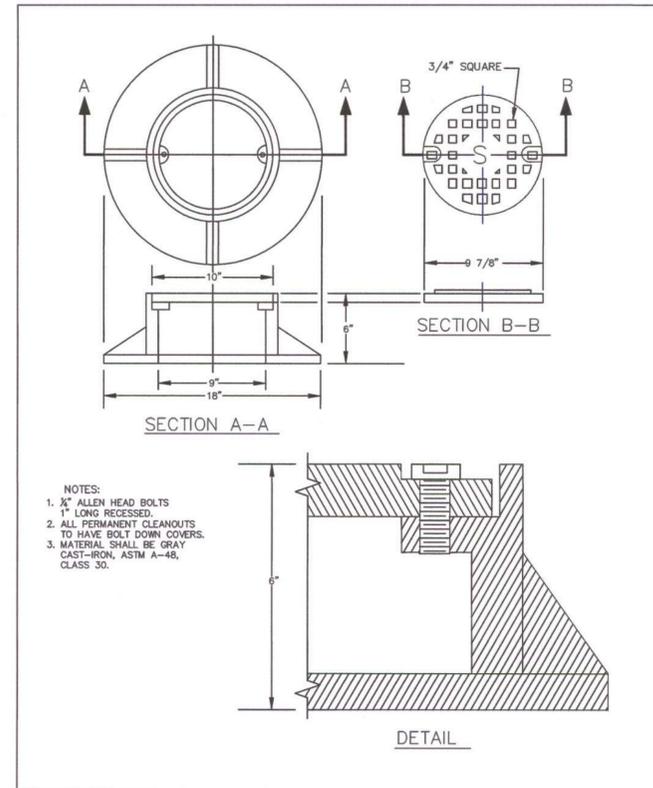
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D01
Sheet No. 30 of 47

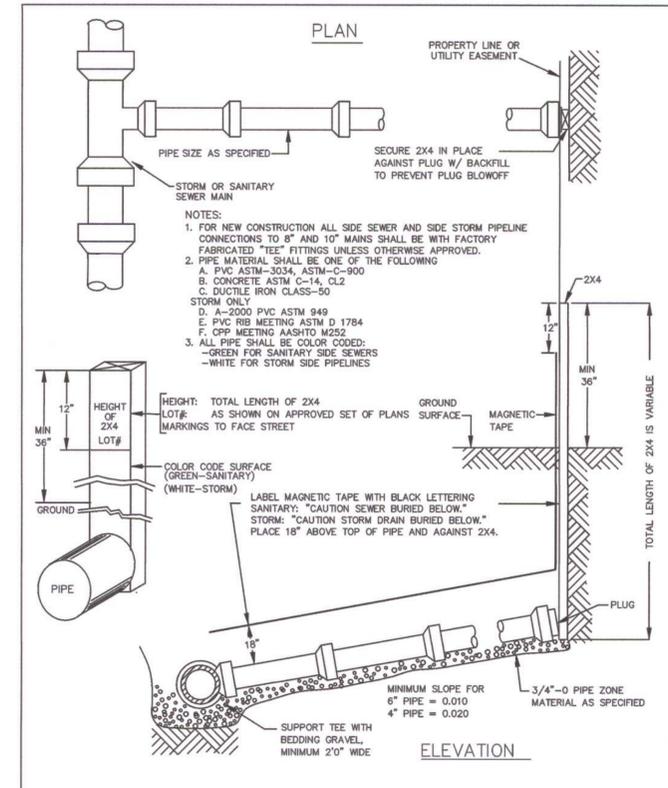




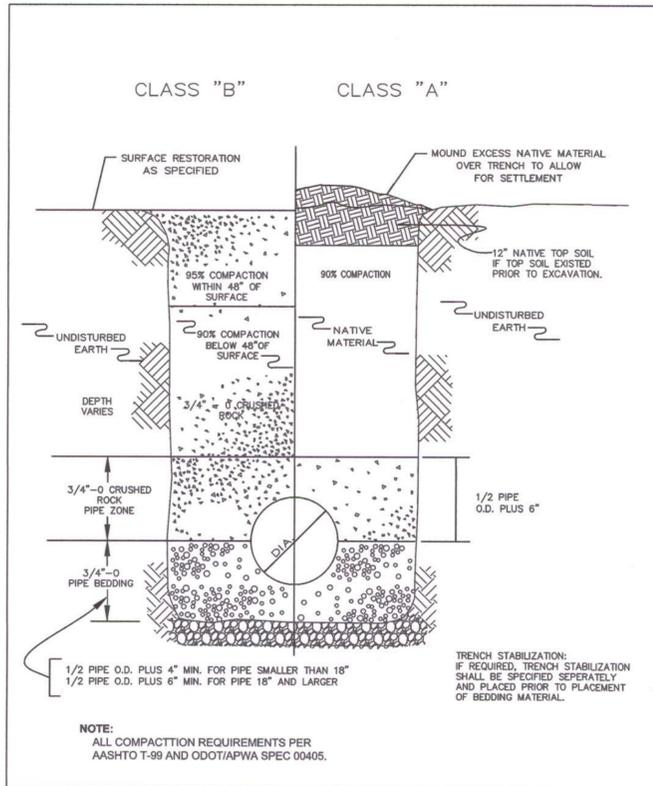
City of Tillamook
STANDARD CLEANOUT
DRAWING NO. 500 REVISED 10-2014



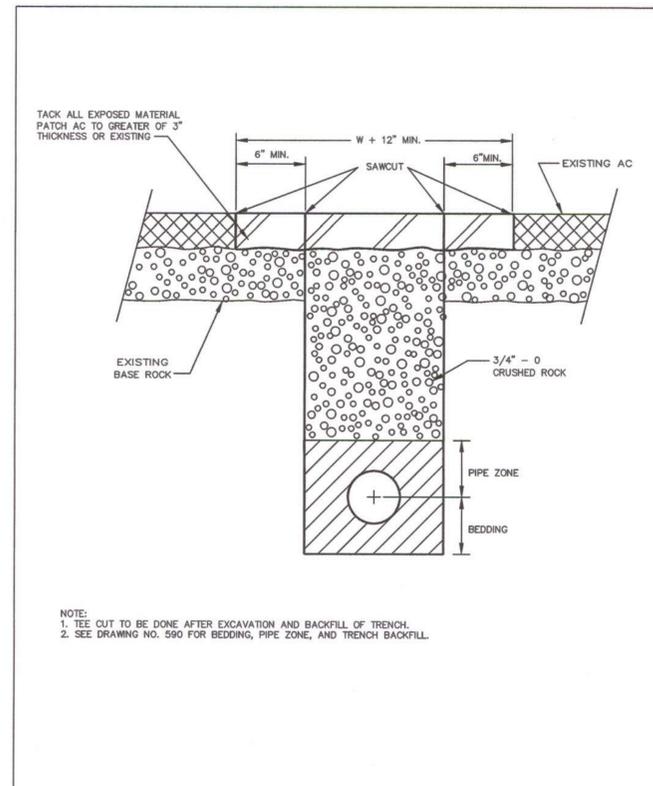
City of Tillamook
CLEANOUT FRAME AND COVER
DRAWING NO. 510 REVISED 10-2014



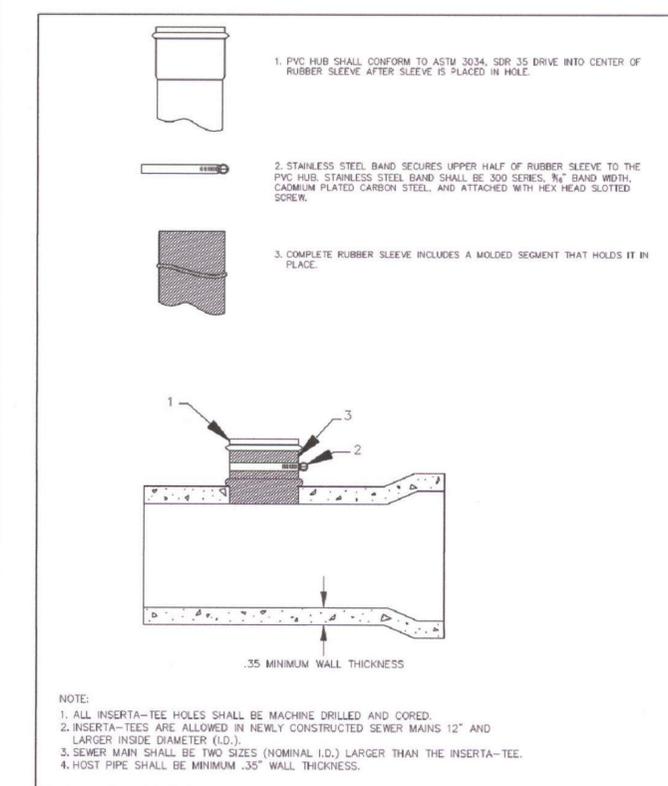
City of Tillamook
SIDE SEWER / SIDE STORM PIPELINE
DRAWING NO. 520 REVISED 10-2014



City of Tillamook
TRENCH BACKFILL DETAILS
DRAWING NO. 590 REVISED 10-2014



City of Tillamook
T-CUT ASPHALT DETAILS
DRAWING NO. 600 REVISED 10-2014



City of Tillamook
INSERTA-TEE
DRAWING NO. 530 REVISED 10-2014

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PLAN
SIDEWALK AWAY FROM CURB

SECTION A-A

Vertical curb preferred. see (2020-ST & 2030-ST). See 2010-ST for mountable curb and gutter if warranted.

DRIVEWAY WIDTH TABLE		
LAND USE	MINIMUM DRIVEWAY WIDTH	MAXIMUM DRIVEWAY WIDTH
See Code of Ord. 155.022 Detail on Driveway Spacing.	10 Feet	24 Feet

NOTE: RESIDENTIAL DRIVEWAYS

- Concrete Shall Be Oregon Standard Commercial Grade Concrete (3,000 psi).
- Curb Joints Shall Be Troweled With A Minimum 1/2" Radius Along Back Of Curb.
- Expansion Joints Shall Be 1/2" Premolded Asphalt Impregnated Material Or Equal, Extending From Subgrade To Finish Grade.
- Contraction Joint Spacing Shall Be A Max. Of 10'.

City of Tillamook
RESIDENTIAL DRIVEWAY (WITH PLANTER STRIP)
DRAWING NO. 1020-ST REVISED 12-2014

PLAN
SIDEWALK AWAY FROM CURB (Preferred)

SECTION A-A

NOTE: COMMERCIAL DRIVEWAYS

- Concrete Shall Be Oregon Standard Commercial Grade Concrete (3,000 psi).
- Curb Joint Shall Be Troweled With A Minimum 1/2" Radius Along Back Of Curb.
- Expansion Joints Shall Be 1/2" Premolded Asphalt Impregnated Material Or Equal, Extending From Subgrade To Finish Grade.
- Contraction Joint Spacing Shall Be A Max. Of 10'.

NOTE: Vertical Curb preferred. See 2020-ST & 2030-ST, also 2010-ST for mountable curb and gutter if warranted.

City of Tillamook
COMMERCIAL DRIVEWAY (WITH PLANTER STRIP)
DRAWING NO. 1040-ST REVISED 12-2014

PLAN
SIDEWALK NEXT TO CURB

SECTION B-B

NOTE: RESIDENTIAL DRIVEWAYS

- Concrete Shall Be Oregon Standard Commercial Grade Concrete (3,000 psi).
- Curb Joints Shall Be Troweled With A Minimum 1/2" Radius Along Back Of Curb.
- Expansion Joints Shall Be 1/2" Premolded Asphalt Impregnated Material Or Equal, Extending From Subgrade To Finish Grade.
- Contraction Joint Spacing Shall Be A Max. Of 10'.
- 15' Minimum Separation Between Driveways.

DRIVEWAY WIDTH TABLE		
LAND USE	MINIMUM DRIVEWAY WIDTH	MAXIMUM DRIVEWAY WIDTH
See Code of Ord. 155.022 Detail on Driveway Spacing.	10 Feet	24 Feet

City of Tillamook
RESIDENTIAL DRIVEWAY (CURBTIGHT SIDEWALK)
DRAWING NO. 1040-ST REVISED 12-2014

SIDEWALK ADJACENT TO CURB

Notes:

- Concrete Shall Be Oregon Standard Commercial Grade Concrete (3,000 psi).
- Panel Dimensions To Be Nominal 5 Feet Or As Directed By Engineer. Perimeters Of Each Panel Shall Be Trowel Finished (shined). All Panels Shall Have A Broom Finish. Panels shall be scored in 2', 2.25' or 2.5' squares.
- Expansion Joints To Be Placed Adjacent To Driveway Approaches, Utility Vaults, Drainage Inlets, Sidewalk Ramps, Curb Joints And At Spacing Not To Exceed 200 Feet.
- Sidewalk Edges Shall Be Troweled With A Minimum 1/2" Radius.
- Sidewalk Shall Have A Minimum Thickness Of 6 Inches (See Structural Sections In Standard Drawings 1020-ST And 1030-ST) If Mountable Curb Is Used, Or If Sidewalk Is Intended As Portion Of Driveway. Otherwise Sidewalk Shall Have Minimum Thickness Of 4 Inches.
- Drain Blockouts In Curbs Shall Be Extended To Back Of Sidewalk With 3" Dia. Plastic Pipe At 2% Slope. Construction Joint To Be Placed Over Pipe.
- At Each CG-30 And CG-48 Inlet Location, Place A 10 Ft. Long #4 Bar Centered Between Back Of The Inlet Structure And Back Of Walk. Install Joints And Rebar At Direction Of Engineer.

City of Tillamook
P.C. CONCRETE SIDEWALK DETAIL
DRAWING NO. 2110-ST REVISED 10-2014

STRIPING LEGEND

NOTES:

- LOCATE STOP BARS 1' BACK OF THE EXTENDED FOG LINE, EDGE OF PAVEMENT, OR CURB FACE. VERIFY SIGHT DISTANCE.
- LOCATE CROSSBARS AS PER ADA RAMP LOCATIONS OR 2' BACK OF EXTENDED FOG LINE, EDGE OF PAVEMENT OR CURB FACE.
- REMOVAL OF EXISTING STRIPING IS TO BE DETERMINED IN THE FIELD. STRIPING SHALL BE REMOVED AS DIRECTED BY THE CITY ENGINEER OF RECORD.
- ALL THERMOPLASTIC PAVEMENT MARKING MATERIAL SHALL BE INSTALLED AS PER SECTION 155.022 OF THE CURRENT STANDARD SPECIFICATIONS FOR HWY. CONSTRUCTION.
- ALL PAVEMENT MARKING SHALL CONFORM TO THE MOST CURRENT ODOT SPECIFICATION. COPIES OF THE MATERIALS SPECIFICATIONS ARE AVAILABLE FROM:
ENGINEER OF MATERIALS AND RESEARCH
HWY. MATERIALS LABORATORY
600 AIRPORT ROAD S.E.
SALEM, OR 97331
(503) 948-1100
- THE ENGINEER MUST OBTAIN AUTHORIZATION FOR PLACEMENT OF "ROAD HEAD CROSSING" MARKINGS PRIOR TO PLAN APPROVAL. AUTHORIZATION SHALL BE OBTAINED FROM THE ODOT RAIL DIVISION AND THE CITY ENGINEER OF RECORD.
- FOR SCHOOL ZONE STENCILS, USE ODOT DETAIL "SCHOOL" & "X" AS NEEDED. # 100 HB WHITE THERMOPLASTIC PAVEMENT MARKING MATERIAL. VERIFY LOCATIONS & SPACING TO BE 30 FEET.
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITHIN THE URBAN GROWTH BOUNDARY.
- FOR DIAGONAL MARKERS, USE "PREMARK IN-LANE RUMBLE BARS" BY PLANT TRADING, INC. OR EQUIVALENT.
3. SUBSCRIPT FOR PAVEMENT MARKING DENOTES COLOR: (Y) YELLOW OR (W) WHITE.
- LANE MARKING DIMENSION LOCATION AT "E" OF STRIPING LINES IS NOTED OTHERWISE.

City of Tillamook
DRAWING NO. 6110-ST REVISED 10-2014

Initial Issue by :
Checked & Approved BY:
DATE:
NO.:

CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
STANDARD DETAILS
TILLAMOOK, TILLAMOOK COUNTY, OR

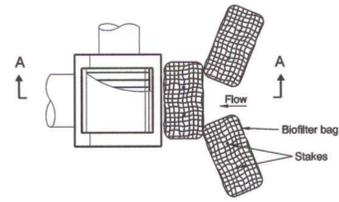
otak
HanmiGlobal Partner
700 Washington Street
Suite 401
Vancouver, WA 98660
Phone: (360) 737-9613
FAX: (360) 737-9651
www.otak.com

Project No. 67522
D03
Sheet No. 32 of 47

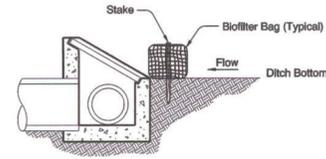
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"It's the Law"

rd1015.dgn 03-03-2015

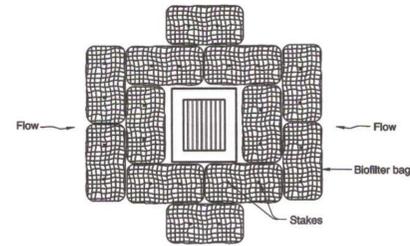
RD1015



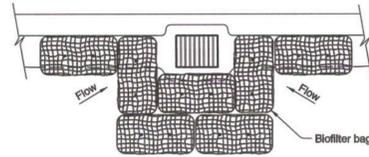
PLAN DITCH INLET



SECTION A-A DITCH INLET



PLAN AREA DRAIN



PLAN CATCH BASIN

BIOFILTER BAGS - TYPE 4

Note:

1. Stake biofilter bags with 2"X2" wood stakes, use a minimum 2 stakes per bag. Drive stakes a minimum of 6" into the ground and flush with the top of the bags.
2. Omit stakes when bags are placed on pavement surface.
3. Overlap all bag joints 6".

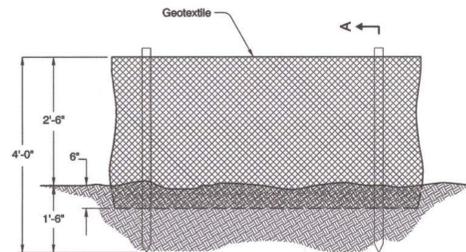
CALC. BOOK NO. --- N/A ---	BASELINE REPORT DATE --- 03-MAR-2015 ---
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.	
OREGON STANDARD DRAWINGS	
INLET PROTECTION TYPE 4	
2015	
DATE	REVISION DESCRIPTION

Effective Date: June 1, 2015 - November 30, 2015

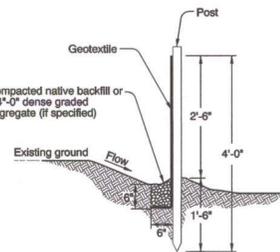
RD1015

rd1040.dgn 03-03-2015

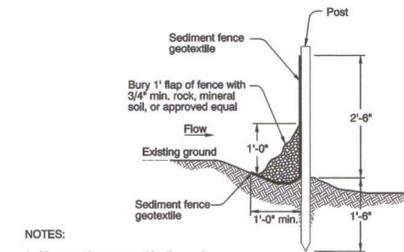
RD1040



FRONT VIEW

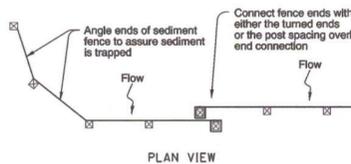


SECTION A-A

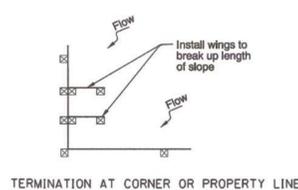


SEDIMENT ALTERNATE FENCE W/O TRENCHING - TYPE 2

- NOTES:
1. Use must be approved by the engineer.
 2. Not approved for use with sediment fencing with sewn-in post pockets.



PLAN VIEW



TERMINATION AT CORNER OR PROPERTY LINE

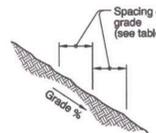


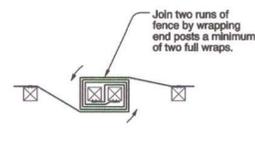
TABLE 1
FENCE SPACING FOR GENERAL APPLICATION
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
Grade < 10%	300'
10% ≤ Grade < 15%	150'
15% ≤ Grade < 20%	100'
20% ≤ Grade < 30%	50'
30% ≤ Grade	25'

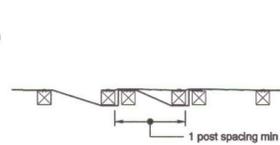
TABLE 2
POST SPACING

6'	Sediment Fence with Geotextile elongation less than 50%
4'	Sediment Fence with Geotextile elongation 50% or more

- NOTES:
1. Use 2" X 2" wood fence posts.
 2. Posts to be installed on downhill side of sediment fence. Position posts to prevent separation from geotextile.
 3. Compact filter fabric trench backfill and soil on uphill side of fence.
 4. Locate fence no closer than three feet to the toe of a slope.
 5. Wing spacing shall comply with table 1.



TURNED ENDS CONNECTION
GEOTEXTILE END CONNECTIONS



POST SPACING OVERLAP CONNECTION

CALC. BOOK NO. --- N/A ---	BASELINE REPORT DATE --- 03-MAR-2015 ---
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.	
OREGON STANDARD DRAWINGS	
SEDIMENT FENCE	
2015	
DATE	REVISION DESCRIPTION

Effective Date: June 1, 2015 - November 30, 2015

RD1040

CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
STANDARD DETAILS
TILLAMOOK, TILLAMOOK COUNTY, OR

otak
HanmiGlobal Partner
700 Washington Street
Suite 401
Vancouver, WA 98660
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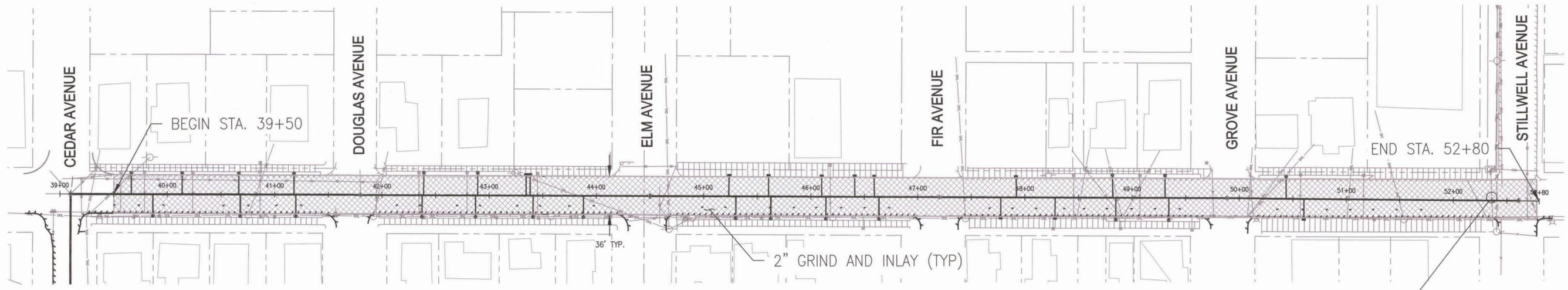
Project No. 67522
D04
Sheet No. 33 of 47

Initial Issue by :
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BY :
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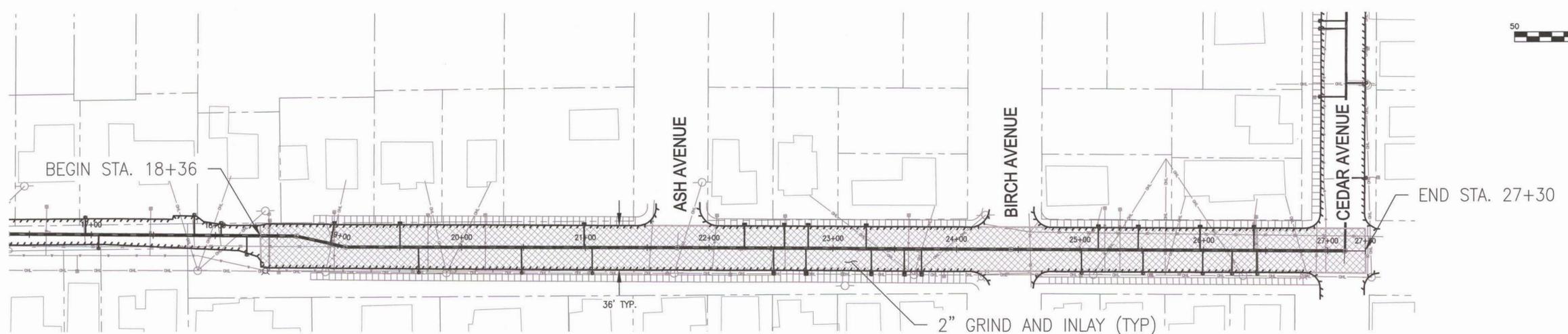
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RESTORATION NOTES

- 1 STA. 18+36 TO STA. 27+30
CURB TO CURB 2" GRIND AND INLAY
- 2 STA. 39+50 TO STA. 52+80
CURB TO CURB 2" GRIND AND INLAY
- 3 FOLLOWING GRIND AND INLAY, REPLACE
CROSSWALK STRIPING ON 1ST STREET AT
STILLWELL INTERSECTION



1ST STREET 2' GRIND AND INLAY



4TH STREET 2' GRIND AND INLAY

Initial Issue by:	
REVISIONS	
Checked & Approved	
BY	
DATE	
NO.	



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT PHASE 2
PAVEMENT RESTORATION DETAIL
TILLAMOOK, TILLAMOOK COUNTY, OR

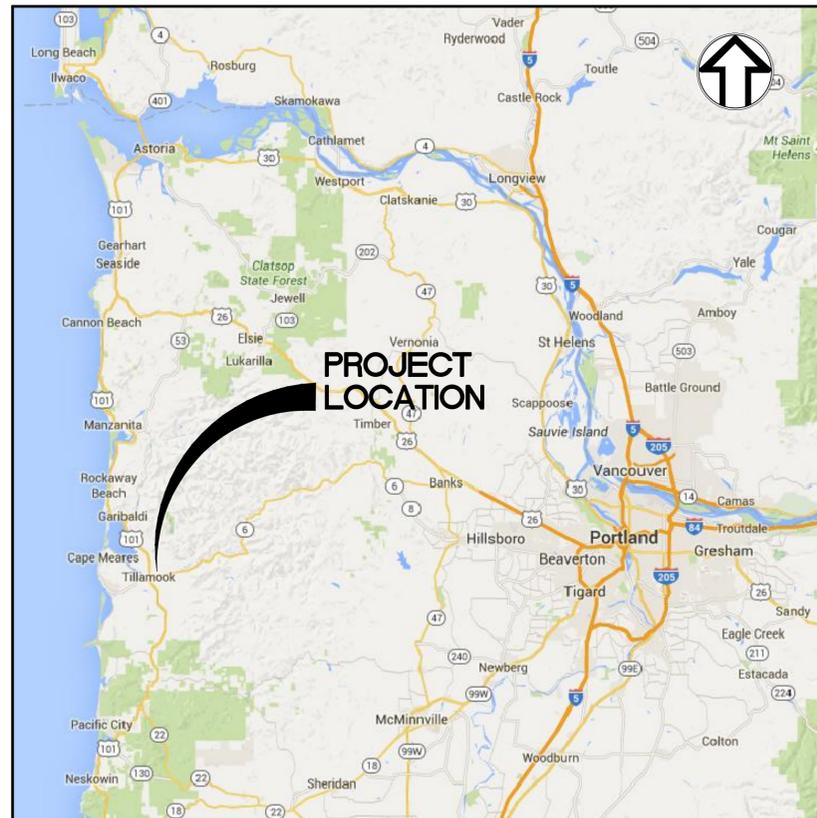
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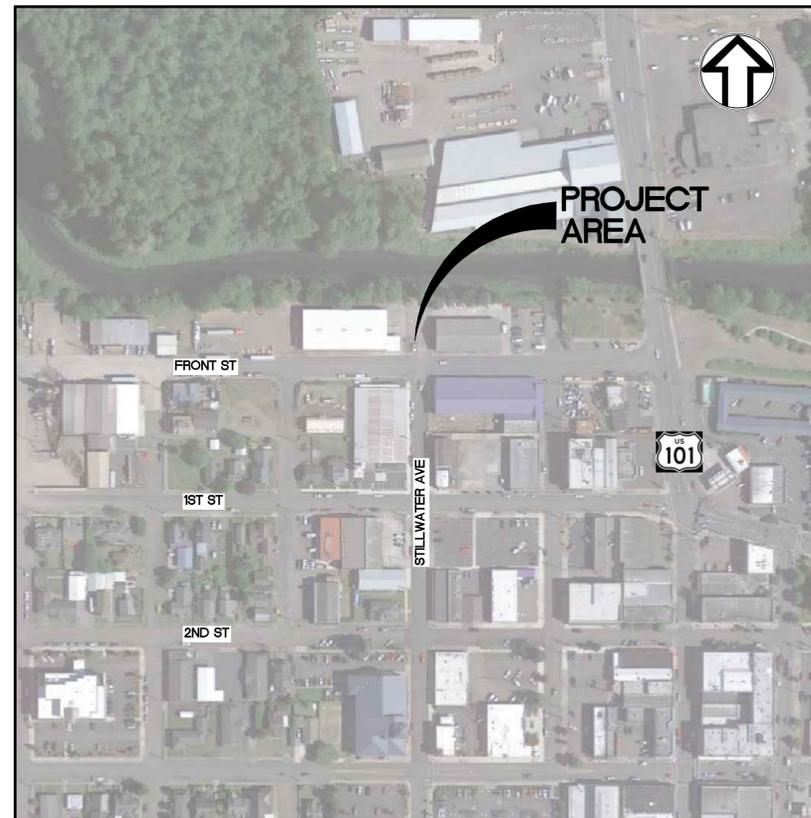
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CITY OF TILLAMOOK TILLAMOOK SEWER REHABILITATION PROJECT FRONT STREET PUMP STATION

CDBG PROJECT #P13013



REGIONAL MAP
NTS



TILLAMOOK VICINITY MAP
NTS

PROJECT TEAM

OWNER: CITY OF TILLAMOOK
210 LAUREL AVENUE
TILLAMOOK, OR 97141
PAUL WYNTERGREEN, CITY MGR
(503) 842-2472 EXT. 3460

PUMP STATION
CIVIL
ENGINEER: ROBERT WALLIS, P.E.
WALLIS ENGINEERING
215 W. 4TH STREET
SUITE 200
VANCOUVER, WA 98660
(360) 695-7041

PROJECT
CIVIL
ENGINEER: TIM KRAFT, P.E.
OTAK, INC.
700 WASHINGTON STREET
SUITE 401
VANCOUVER, WA 98660
(360) 906-6793

SURVEYOR: DALE BARRETT, P.L.S.
OTAK, INC.
4253-A HWY 101 N.
SEASIDE, OR 97138
(503) 738-3425

SHEET INDEX

SHEET	DWG	DESCRIPTION
35	PS01	COVER
36	PS02	GENERAL NOTES & LEGEND
37	PS03	PUMP STATION DESIGN CRITERIA
38	PS04	DEMOLITION PLAN
39	PS05	SITE PLAN
40	PS06	COATING PLAN
41	PS07	MECHANICAL PLAN
42	PS08	CONTROL BUILDING ELEVATIONS
43	PS09	CONTROL BUILDING SECTIONS
44	PS10	CONNECTION DETAILS
45	PS11	ELECTRICAL SITE PLAN AND ONE-LINE DRAWING
46	PS12	STANDARD DETAILS
47	PS13	FOUNDATION DETAILS

NO.	DATE	BY	Checked Approval	REVISIONS



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
COVER
TILLAMOOK, TILLAMOOK COUNTY, OR



Project No. P13013

PS01

Sheet No. 35 of 47

CONSTRUCTION NOTES

SAFETY FIRST

- CONTRACTOR SHALL HAVE AN APPROVED SAFETY PLAN AND TRAINED PERSONNEL. ALL WASTEWATER OPERATION AND MAINTENANCE WORK MUST CONFORM TO THE "CONFINED SPACE REGULATION" (OSHA STANDARD 29 CFR 1910.146) WHICH WAS ADOPTED BY THE STATE OF OREGON IN JANUARY 1993. A RESCUE PLAN MUST ACCOMPANY THE APPROVED SAFETY PLAN. THE CITY CANNOT BE RESPONSIBLE FOR CONTRACTOR OR CONTRACTOR PERSONNEL SAFETY.
- CONTRACTOR SHALL PROVIDE FRESH AIR SUPPLY FOR PERSONNEL WORKING IN CONFINED SPACES.
- WASTEWATER IS INHERENTLY DANGEROUS. CONTRACTOR SHALL KEEP WORK AREA CLEAN.
- ONSITE EQUIPMENT CONTAINS ELECTRICAL AND MECHANICAL HAZARDS WHICH MAY CAUSE INJURY OR DEATH. IT IS CRITICAL THAT LOCK-OUT/TAG-OUT PROCEDURES BE ESTABLISHED AND FOLLOWED DURING EQUIPMENT UPGRADES.

GENERAL NOTES

- CONTRACTOR MUST COORDINATE ALL ACTIVITIES, SEQUENCING, AND PRODUCT INSTALLATION WITH THE CITY OF TILLAMOOK PUBLIC WORKS DEPARTMENT.
- CONTRACTOR RECORD DRAWINGS SHALL BE PROVIDED TO ENGINEER AT COMPLETION OF THE PUMP STATION WORK. ANY UNDERGROUND IMPROVEMENTS MUST BE DOCUMENTED BY EITHER MEASURING FROM EXISTING STRUCTURES OR BY CONTRACTOR'S SURVEYOR. COORDINATE WITH CITY TO ENSURE AS-BUILTS ARE ACCEPTABLE.
- PUMPS, CONTROLS, PIPING, AND SCHEDULES, REQUIRE SUBMITTALS FOR ENGINEER AND CITY APPROVAL.

SEQUENCING NOTES

- THESE SEQUENCING NOTES GIVE GENERAL GUIDANCE FOR PHASING WORK, SUCH THAT WORK IS COMPLETED IN A TIMELY MANNER WHILE MEETING REQUIREMENTS TO AVOID SERVICE DISRUPTIONS AND LOGISTICAL CONFLICTS.
- THIS PUMP STATION RECEIVES CONTINUOUS WASTEWATER FLOWS. CONTRACTOR SHALL DEVELOP A BYPASS PUMPING PLAN AND SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO BEGINNING CONSTRUCTION.
- INSTALL PERMANENT BYPASS ASSEMBLY. DIVERT FLOWS FROM EXISTING WET WELL INTO PERMANENT BYPASS ASSEMBLY USING TEMPORARY BYPASS PUMP.
- REMOVE EXISTING PUMP/MOTOR ASSEMBLIES, CHECK VALVES, ISOLATION VALVES, FAN, HEATER, DEHUMIDIFIER, SUMP PUMP, ELECTRICAL CONDUIT AND WIRING, AND CONTROL PANEL FROM DRY WELL. (MAY BE NECESSARY TO LEAVE ISOLATION VALVES ON SUCTION PIPING).
- PREPARE AND COAT ALL WET WELL AND DRY WELL SURFACES PER THE SPECIFICATIONS.
- RELOCATE EXISTING S.T.E.P. SYSTEM ODOR CONTROL INJECTION VAULT TO THE LOCATION SHOWN ON THE PLANS AND RE-PIPE S.T.E.P. SYSTEM FORCE MAINS.
- CONSTRUCT PRE-ENGINEERED CMU UTILITY BUILDING.
- HIRE PROFESSIONAL ELECTRICAL ENGINEER TO DEVELOP STAMPED ELECTRICAL DESIGN PRIOR TO INSTALLING ELECTRICAL EQUIPMENT.
- INSTALL NEW PUMP/MOTOR ASSEMBLIES, CHECK VALVES, ISOLATION VALVES, FAN AND DUCTING, HEATER, DEHUMIDIFIER, SUMP PUMP, ELECTRICAL CONDUIT AND WIRING, AND ELECTRICAL SWITCHES IN DRY WELL.
- INSTALL NEW METER BASE, NEW CONTROL PANEL, NEW 120V/240V SUBPANEL, SALVAGED AUTODIALER, AND NEW IMPRESSED CURRENT RECTIFIER INSIDE/OUTSIDE NEW CMU BUILDING.
- INSTALL WATER SERVICE PIPING AND METER. INSTALL RPBA, WATER METER, TEMPORARY VALVE, EYEWASH STATION, HOT/COLD SPIGOT AND NECESSARY PIPING INSIDE/OUTSIDE NEW CMU UTILITY BUILDING.
- PERFORM PUMP STATION START UP IN ACCORDANCE WITH THE SPECIFICATIONS.

PUMP/MOTOR INSTALLATION NOTES

- AFTER INSTALLATION OF NEW PUMP/MOTOR ASSEMBLIES AND NECESSARY APPURTENANCES IS COMPLETE, CONTRACTOR SHALL PERFORM VIBRATION TESTING AT SHUT-OFF, DESIGN, AND RUN-OUT. RESULTS SHALL ACCOMPANY PUMP/CONTROL LITERATURE, AND BE INCORPORATED INTO THE O&M MANUAL PER DEQ.
- CONTRACTOR SHALL BUDGET A MINIMUM OF 8 HOURS TRAINING TIME, IN TWO 4 HOUR SESSIONS FOR PUBLIC WORKS STAFF TRAINING IN PUMP STATION OPERATION.

SPECIFICATION REFERENCES

- PROJECT SPECIFICATIONS SHALL TAKE PRECEDENCE. WHERE THESE SPECIFICATIONS ARE SILENT, THE MOST CURRENT EDITION OF ODOT APWA SPECIFICATIONS SHALL BE USED.
- PUMP TESTING BY VENDOR SHALL BE REQUIRED AT THE END OF THE PROJECT. RESULTS SHALL BE INCORPORATED INTO THE VENDOR SUPPLIED O&M MANUALS AS A BASELINE FOR FUTURE TESTING.
- UPON COMPLETION OF PROJECT - PUMP/CONTROL VENDOR SHALL PROVIDE THE OWNER WITH FOUR (4) COPIES OF THE OPERATIONS AND MAINTENANCE MANUALS. ONE (1) COPY TO ENGINEER.

ORS AND TECHNICAL NOTES

- ATTENTION CONTRACTORS: 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 OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE CONTRACTOR SHALL NOTIFY THE OREGON UTILITY NOTIFICATION CENTER OF THE DATE AND LOCATION OF THE PROPOSED CONSTRUCTION, AND THE TYPE OF WORK TO BE PERFORMED AT LEAST TWO (2) BUSINESS DAYS PRIOR TO CONSTRUCTION.
- ALL EXISTING FACILITIES TO BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER THAN ORIGINAL CONDITION.
- IN ACCORDANCE WITH O.R.S.290.140, IF THE CONTRACTOR FINDS IT NECESSARY TO INTERFERE WITH OR PAVE OVER ANY ESTABLISHED PUBLIC LAND SURVEY CORNER OR ITS ACCESSORIES WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR PRIOR TO DOING SO.
- IN ACCORDANCE WITH O.R.S.290.150, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL SURVEY MONUMENTS DISTURBED OR DESTROYED DURING CONSTRUCTION. REPLACING THE SURVEY MONUMENTS SHALL BE DONE BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTACT UTILITY COMPANIES FOR PRE-MARKING. POTHOLE ALL UTILITY CROSSINGS BEFORE CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- ALL FINAL DESIGNS AND SPECIFICATIONS TO BE APPROVED BY DEQ, LOCAL AGENCY AND OTHER ASSOCIATED UTILITIES PRIOR TO ANY CONSTRUCTION.
- UPON COMPLETION OF CONSTRUCTION OF THE PROJECT, CONTRACTOR TO SUBMIT RECORD DRAWINGS TO THE ENGINEER OR CITY.

SURVEY NOTES

- THE BASIS OF BEARING FOR THIS PROJECT IS GRID NORTH. THE HORIZONTAL DATUM IS NAD83 (CORS 11) EPOCH 2010.00, PROJECTED ONTO OREGON NORTH ZONE (3601) STATE PLANE (GRID) COORDINATES IN INTERNATIONAL FEET. BEARINGS SHOWN HERE ARE ON GRID.
- THE VERTICAL DATUM IS NAVD88(GEOD 12), HOLDING NGS BENCH MARK "C 223" (PID: RD1010) PUBLISHED ORTHOMETRIC ELEVATION OF 55.45'

UTILITY PROVIDERS

- ONE CALL CENTER - CALL BEFORE YOU DIG!

(800) 332-2344 (ONE-CALL CENTER)
(877) 668-4001 (ADMINISTRATIVE)

ATTENTION EXCAVATORS: OREGON LAW REQUIRES COMPLIANCE WITH OAR 952-001-0010 THROUGH OAR 952-001-0090. THESE RULES MAY BE OBTAINED BY CALLING OREGON UTILITY NOTIFICATION CENTER, (503) 232-1987. CONTRACTOR MUST NOTIFY THE CENTER AT LEAST TWO (2) WORKING DAYS BEFORE, BUT NOT MORE THAN TEN (10) DAYS BEFORE COMMENCING EXCAVATION.

- WATER/SEWER/STORM

CITY OF TILLAMOOK
TIM LYDA - PUBLIC WORKS DIRECTOR
210 LAUREL AVE.
TILLAMOOK, OREGON 97141
(503) 374-1826 (OFFICE)
(503) 812-8802 (CELL)

- ELECTRICITY

TILLAMOOK PEOPLE'S UTILITY DISTRICT
DEREK MICKELSON
1115 PACIFIC AVE, TILLAMOOK, OR 97141
(503) 842-2535 (OFFICE)
(503) 815-8629 (ENGINEERING DIRECT)
(800) 422-2535 (TOLL FREE)
(800) 842-2122 (EMERGENCY)

- TELEPHONE

CENTURYLINK
SCOTT SCHIMINESKY
PACIFIC CITY, OR 97141
(503) 965-9918

- CABLE TELEVISION

CHARTER COMMUNICATIONS
1014 PACIFIC AVE, TILLAMOOK, OR 97141
(888) 438-2427 (OFFICE)

- GAS

NORTHWEST NATURAL GAS
ANDREW YOUNG, P.E.
220 NW 2ND AVE
PORTLAND, OR 97209
(503) 226-4211 (OFFICE)
(360) 281-6169 (CELL)

PIPE FITTINGS

DOUBLE LINE	SINGLE LINE	ABBREV	DESCRIPTION
		FL	FLANGED JOINT
		MJ	MECHANICAL JOINT
		WYE	LATERAL/45° WYE
		WYE	LATERAL/45° WYE
		WYE	LATERAL/45° WYE
		ECC RDCR	ECCENTRIC REDUCER
		BEND	BEND, ANGLE AS NOTED
		BEND 90	90° BEND
		BEND DN	TURNED DOWN
		BEND UP	TURNED UP
		TEE	STRAIGHT
		TEE UP	OUTLET UP
		TEE DN	OUTLET DOWN

VALVES

DOUBLE LINE	SINGLE LINE	ABBREV	DESCRIPTION
		SCV	SWING CHECK VALVE
		GV	GATE VALVE
		BV	BALL VALVE
		EPV	ECCENTRIC PLUG VALVE

NOTE:
PIPES 3" AND SMALLER DIAMETER ARE SHOWN AS A SINGLE LINE. 4" AND LARGER DIAMETER ARE SHOWN AS A DOUBLE LINE.

ABBREVIATIONS

ACP	ASPHALT CONCRETE	MJ	MECHANICAL JOINT
CONC	CEMENT CONCRETE	OC	ON CENTER
DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
EW	EACH WAY	PL	PROPERTY LINE
FL	FLANGE	RPBA	REDUCED PRESSURE BACKFILL ASSEMBLY
FM	FORCE MAIN	SAN	SANITARY SEWER
ID	INSIDE DIAMETER	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	SST	STAINLESS STEEL
IE	INVERT ELEVATION	STM	STORM SEWER
MFR	MANUFACTURER	TEMP	TEMPORARY
MH	MANHOLE		

LEGEND

	EXISTING BUILDING FOOTPRINT
	EXISTING CONCRETE
	EXISTING ASPHALT
	EXISTING EDGE OF CONCRETE
	EXISTING CURB
	EXISTING FENCE
	EXISTING FM, SIZE NOTED IF KNOWN
	EXISTING TRANSITE FM, LOCATION ASSUMED
	EXISTING OVERHEAD POWER
	EXISTING SANITARY, SIZE NOTED IF KNOWN
	EXISTING STORM, SIZE NOTED IF KNOWN
	EXISTING WATERLINE
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY CLEANOUT
	EXISTING VALVE
	EXISTING CATCH BASIN
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING ELECTRICAL BOX
	EXISTING STREET ADDRESS
	PROPOSED ASPHALT CONCRETE PAVEMENT REPAIR
	PROPOSED BUILDING FOOTPRINT
	PROPOSED WATERLINE
	PROPOSED WATER METER

NO.	DATE	BY	Checked/Approval	REVISIONS



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
GENERAL NOTES & LEGEND
TILLAMOOK, TILLAMOOK COUNTY, OR



P:\14\1413A - Tillamook Front Street PS\500 DWG\501 Plan Sheets\36 GENERAL NOTES & LEGEND.dwg, 7/7/2016 1:40:53 PM, DWG To PDF.pc3

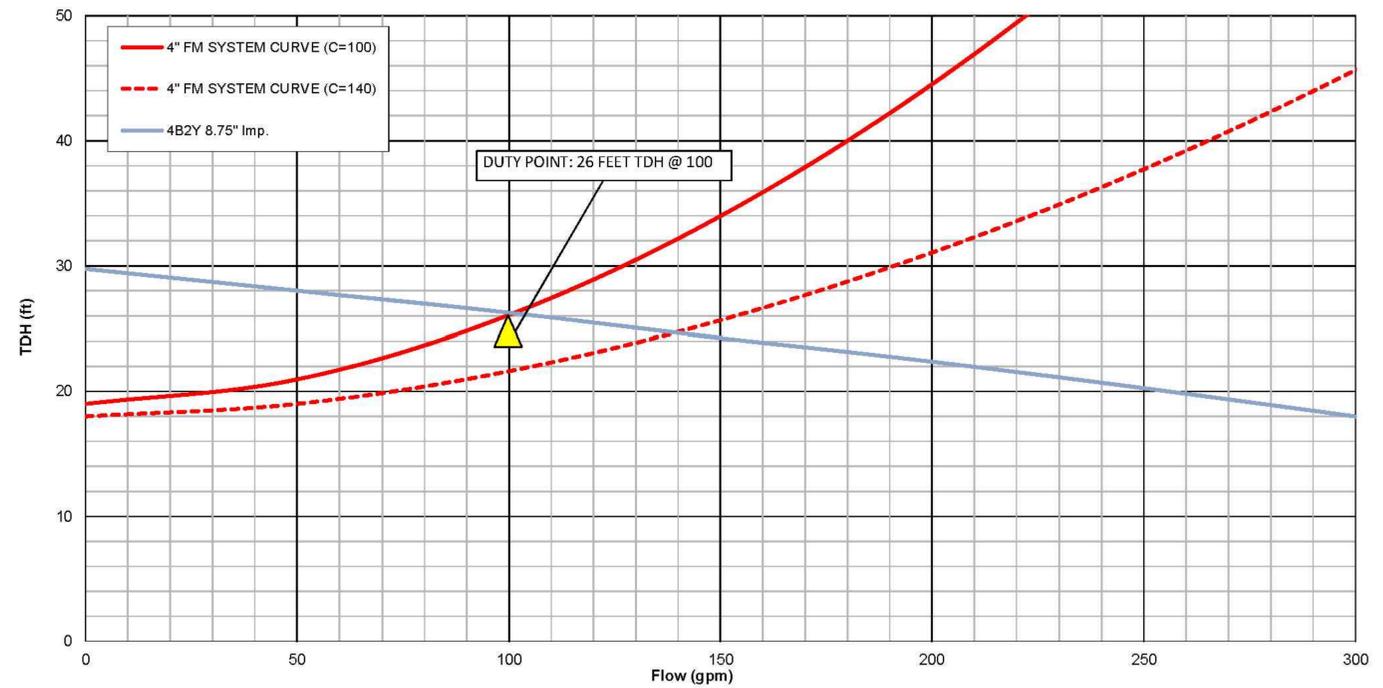
DESIGN DATA (EXISTING)

PUMP STATION	
TYPE	DUPLEX FLOODED SUCTION, WET WELL/DRY WELL
PUMP MANUFACTURE MODEL	SMITH & LOVELESS/4B2
CAPACITY (PER PUMP)	100 GPM @ 26 FEET TDH (STATIC HEAD = 18 FT)
HORSEPOWER	3 HP
MOTOR DATA	230 VOLT/3 PHASE/60 HZ/CONSTANT SPEED
FIRM CAPACITY OF PUMP STATION	0.14 MGD (100 GPM)
MAXIMUM PUMPS STARTS PER HOUR	10
WET WELL VOLUME	150 GALLONS (PUMPS OFF TO LEAD PUMP ON)
LEVEL CONTROL TYPE	BUBBLER
OVERFLOW POINT	FROM WET WELL ACCESS LID
OVERFLOW LOCATION	ON SITE, SLOPES NORTH TO HOQUARTON SLOUGH
AVERAGE TIME TO OVERFLOW	12.5 MINUTES AT 100 GPM AVERAGE INFLUENT FLOW
TELEMETRY	AUTO-DIALER
TRANSFER SWITCH	MANUAL
STANDBY POWER TYPE	NO PORTABLE GENERATOR TO BE BROUGHT TO THIS SITE
EPA RELIABILITY CLASS	1
FLOW METER	NONE
FORCE MAIN	
LENGTH	420 LF
NOMINAL DIAMETER	4-INCH
MATERIAL	ASBESTOS CEMENT (ASSUMED)
ELEVATION AT BOTTOM OF WET WELL	2.19'
INVERT ELEVATION AT FORCE MAIN DISCHARGE	20.50' ±

DESIGN DATA (PROPOSED)

PUMP STATION	
TYPE	DUPLEX FLOODED SUCTION, WET WELL/DRY WELL
PUMP MANUFACTURE MODEL	SMITH & LOVELESS/4B2Y
CAPACITY (PER PUMP)	100 GPM @ 26 FEET TDH (STATIC HEAD = 18 FT)
HORSEPOWER	3 HP
MOTOR DATA	230 VOLT/3 PHASE/60 HZ, IMMERSIBLE
FIRM CAPACITY OF PUMP STATION	0.14 MGD (100 GPM)
MAXIMUM PUMPS STARTS PER HOUR	10
WET WELL VOLUME	150 GALLONS (PUMPS OFF TO LEAD PUMP ON)
LEVEL CONTROL TYPE	ULTRASONIC TRANSDUCER WITH BACKUP FLOAT SWITCHES
OVERFLOW POINT	FROM WET WELL ACCESS LID
OVERFLOW LOCATION	ON SITE, SLOPES NORTH TO HOQUARTON SLOUGH
AVERAGE TIME TO OVERFLOW	12.5 MINUTES AT 100 GPM AVERAGE INFLUENT FLOW
TELEMETRY	AUTO-DIALER
TRANSFER SWITCH	MANUAL
STANDBY POWER TYPE	NO PORTABLE GENERATOR TO BE BROUGHT TO THIS SITE
EPA RELIABILITY CLASS	1
FLOW METER	NONE
FORCE MAIN	
LENGTH	420 LF
NOMINAL DIAMETER	4-INCH
MATERIAL	ASBESTOS CEMENT (ASSUMED)
ELEVATION AT BOTTOM OF WET WELL	2.19'
INVERT ELEVATION AT FORCE MAIN DISCHARGE	20.50' ±

PROPOSED SYSTEM / PUMP CURVES



NO.	DATE	BY	Checked/Approval	REVISIONS

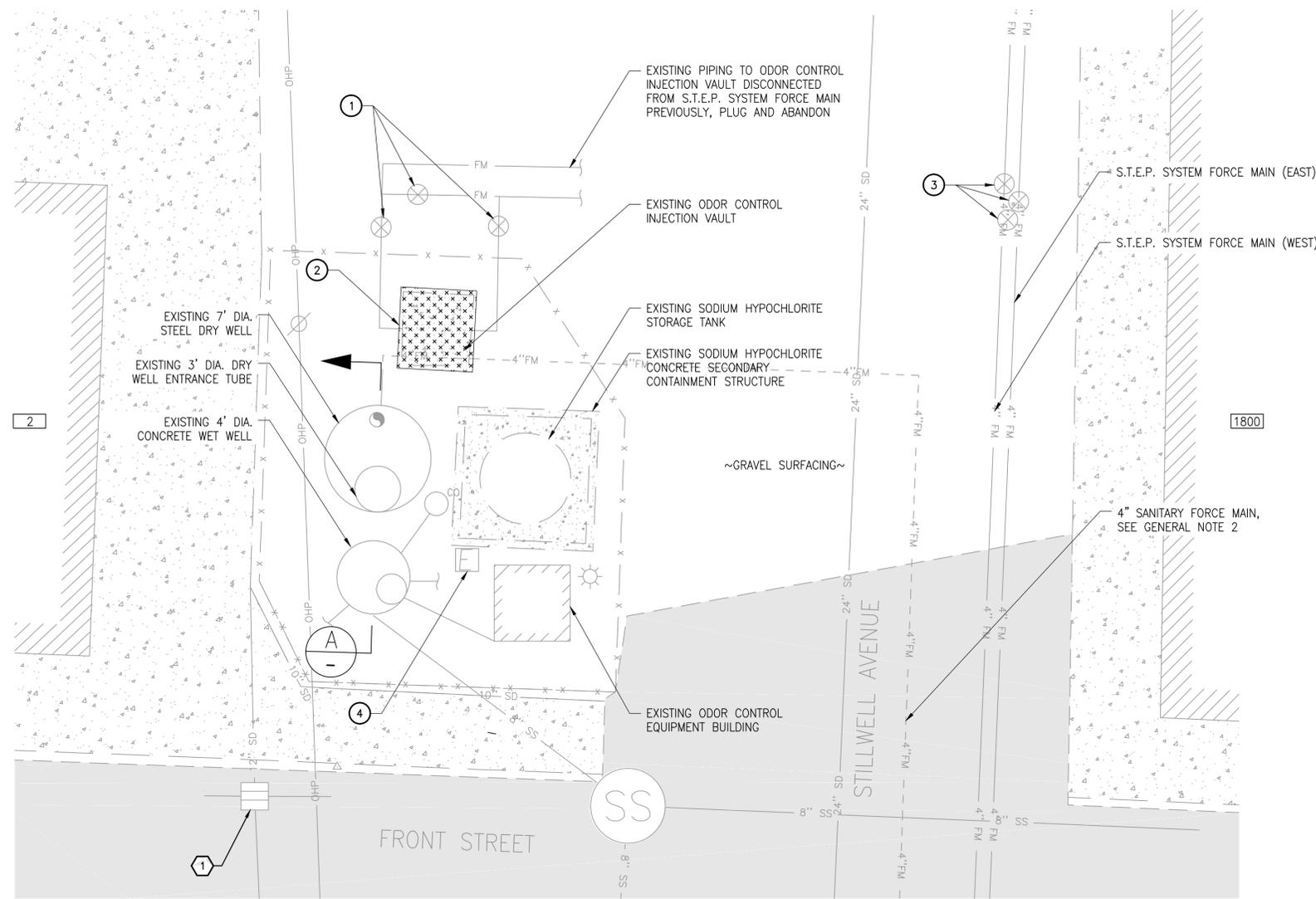


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
PUMP STATION DESIGN CRITERIA
TILLAMOOK, TILLAMOOK COUNTY, OR



P:\14\1413A - Tillamook Front Street PS\500 DWG\501 Plan Sheets\37 PUMP STATION DESIGN CRITERIA.dwg, 7/7/2016 1:41:07 PM, DWG To PDF.pc3

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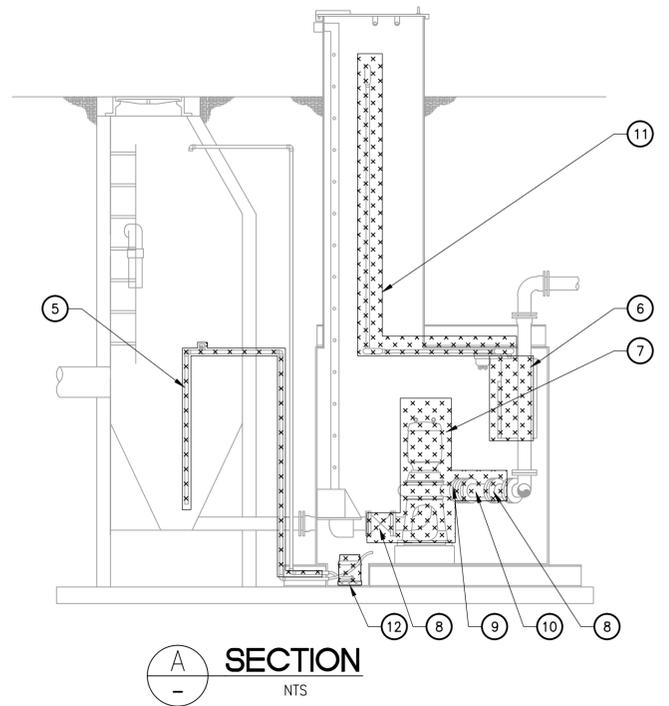
PLAN



EXISTING PUMP STATION AS SEEN FROM THE SOUTH



EXISTING PUMP STATION AS SEEN FROM THE NORTHEAST



SECTION A-A
NTS

GENERAL NOTES:

- COORDINATE DEMOLITION ACTIVITIES WITH SITE IMPROVEMENTS. ITEMS SHOWN ON THE DEMOLITION PLAN REPRESENT AN APPROXIMATION OF THE DEMOLITION ACTIVITIES NECESSARY TO ACCOMMODATE SITE IMPROVEMENTS AS REQUIRED. SALVAGE MATERIALS TO CITY AS REQUESTED.
- EXISTING SEWER FORCE MAIN ALIGNMENT UNKNOWN. CONTRACTOR TO LOCATE EXISTING FORCE MAIN ALIGNMENT BY LAUNCHING SONDE-EQUIPPED EXPLORATION DEVICE FROM DRY WELL.
- INSTALL DOUBLE LAYER OF BIOBAGS AROUND ALL EXCAVATION AND SOIL STOCKPILE AREAS.

EROSION CONTROL NOTES:

- INSTALL INLET PROTECTION AROUND AREA DRAIN PER ODOT STANDARD DETAIL RD1015.

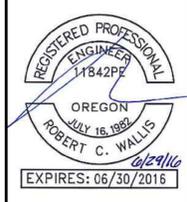
DEMOLITION NOTES:

- REMOVE AND SALVAGE EXISTING 4-INCH PLUG VALVE FOR REUSE WITH PROPOSED PERMANENT BYPASS ASSEMBLY, SEE DETAIL 1, SHEET PS10 (TYP 3).
- REMOVE EXISTING ODOR CONTROL INJECTION VAULT. SALVAGE VAULT BASE, DI PIPE, FLOW METER AND SODIUM HYPOCHLORITE INJECTION FITTINGS FOR REUSE IN PROPOSED ODOR CONTROL INJECTION VAULT, SEE DETAIL 2, SHEET PS10.
- REMOVE AND SALVAGE EXISTING 4-INCH GATE VALVE FOR REUSE WITH PROPOSED ODOR CONTROL PIPING IMPROVEMENTS, SEE DETAIL 2, SHEET PS10 (TYP 3).
- REMOVE AND SALVAGE EXISTING MANUAL TRANSFER SWITCH AND BACKUP GENERATOR RECEPTACLE FOR REUSE, SEE SHEET PS11.
- REMOVE EXISTING BUBBLER CONDUIT FLUSH WITH INTERIOR WALLS OF WET WELL AND DRY WELL. FILL REMAINING CONDUIT WITH PRESSURE GROUT.
- REMOVE EXISTING CONTROL PANEL AND CABINET FROM DRY WELL.
- REMOVE EXISTING PUMP, MOTOR, AND SUCTION PIPING (TYP 2).
- REMOVE EXISTING 4-INCH GATE VALVE (TYP 4).
- REMOVE EXISTING 4-INCH SPOOL (TYP 2).
- REMOVE EXISTING 4-INCH SWING CHECK VALVE (TYP 2).
- REMOVE EXISTING ELECTRICAL CONDUIT AND CONDUCTORS FROM DRY WELL.
- REMOVE EXISTING SUMP PUMP FROM DRY WELL.

LEGEND:

INDICATES FEATURES SCHEDULED FOR DEMOLITION

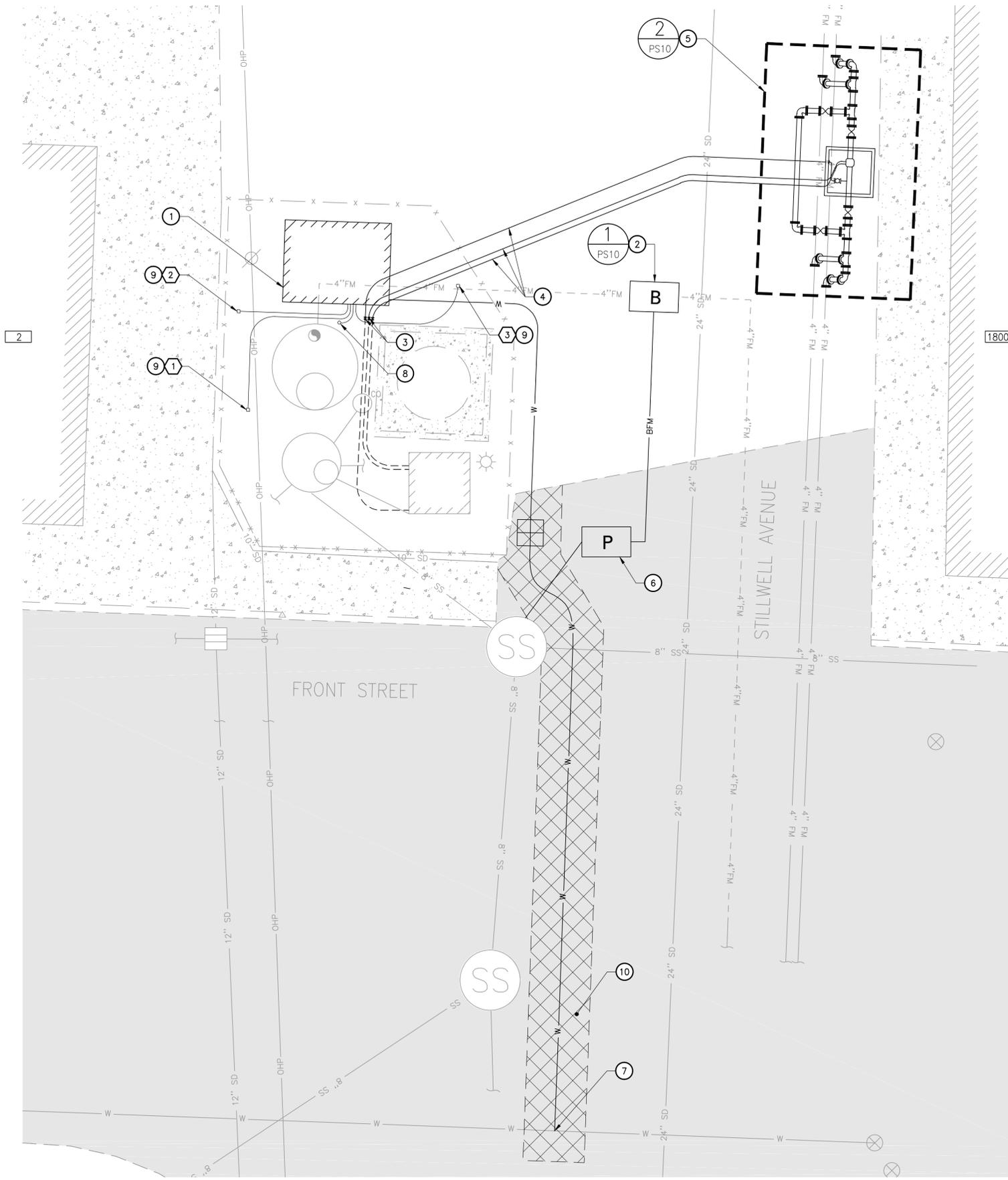
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CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
DEMOLITION PLAN
TILLAMOOK, TILLAMOOK COUNTY, OR



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PLAN

GENERAL NOTES:

- BACKFILL ALL STRUCTURE EXCAVATION USING 3/4"-0" GRANULAR STRUCTURE BACKFILL.

CONSTRUCTION NOTES:

- CONSTRUCT PRE-ENGINEERED CMU UTILITY BUILDING, SEE SHEETS PS08 AND PS09 FOR DETAILS.
- EXISTING SEWER FORCE MAIN ALIGNMENT UNKNOWN. SEE GENERAL NOTE 2, SHEET PS04. ONCE FORCE MAIN ALIGNMENT IS DETERMINED, CONTRACTOR TO COORDINATE WITH ENGINEER AND CITY FOR APPROPRIATE LOCATION OF PERMANENT BYPASS ASSEMBLY.
- CUT AND CONNECT TO EXISTING PVC CONDUIT FOR ODOR CONTROL METER WIRING AND SODIUM HYPOCHLORITE INJECTION TUBING.
- INSTALL CONDUIT BETWEEN EXISTING CONDUIT AND PROPOSED VAULT, MATCHING SIZE AND TYPE OF EXISTING CONDUIT. SWEEP RADII SHALL BE ADEQUATE TO PULL ODOR CONTROL INJECTION TUBING AND FLOW METER WIRING.
- CONTRACTOR TO RELOCATE EXISTING ODOR CONTROL INJECTION VAULT AND EQUIPMENT AT PROPOSED LOCATION AND PLUMB EXISTING S.T.E.P. FORCE MAINS AS SHOWN IN DETAIL 2, SHEET PS10.
- PROVIDE PORTABLE BYPASS PUMPS PER THE SPECIFICATIONS, SIZED TO MATCH PROPOSED PUMP CAPACITY.
- CITY TO INSTALL CORPORATION STOP ON EXISTING WATER MAIN FOR PUMP STATION WATER SERVICE. CONTRACTOR TO CONSTRUCT WATER SERVICE FROM CORPORATION STOP TO PROPOSED UTILITY BUILDING, INCLUDING PLACING WATER METER (COORDINATE WITH CITY FOR EXACT METER LOCATION). CITY TO PROVIDE THE FOLLOWING MATERIALS ASSOCIATED WITH THE WATER SERVICE UP TO THE UTILITY BUILDING: COPPER PIPING, WATER METER, METER BOX & NECESSARY FITTINGS. CONTRACTOR TO PROVIDE ALL PIPING, FITTINGS, & PUMP APPURTENANCES AFTER THE WATER SERVICE HAS ENTERED THE UTILITY BUILDING.
- COPPER/ COPPER SULFATE REFERENCE ELECTRODE (TYP 2). SEE SHEET PS07 FOR DETAILS.
- IMPRESSED CURRENT ANODE (TYP 3). SEE ANODE SCHEDULE BELOW.
- BACKFILL TRENCH WITH CLASS B BACKFILL PER CITY STANDARD DETAIL NO. 590. RESTORE ASPHALT CONCRETE PAVEMENT WITH LEVEL 3, 1/2 INCH DENSE HMAC ACP PER CITY STANDARD DETAIL NO. 600.

ANODE SCHEDULE:

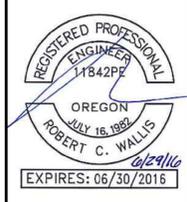
ANODE CABLES TO BE ROUTED TO JUNCTION BOX AT A MINIMUM DEPTH OF 36".

ANODE	ELEVATION AT BOTTOM OF ANODE
①	3.75'
②	-1.00'
③	3.75'

LEGEND:

- P TEMPORARY BYPASS PUMPING ASSEMBLY
- B PERMANENT BYPASS ASSEMBLY
- BFM— BYPASS FORCE MAIN

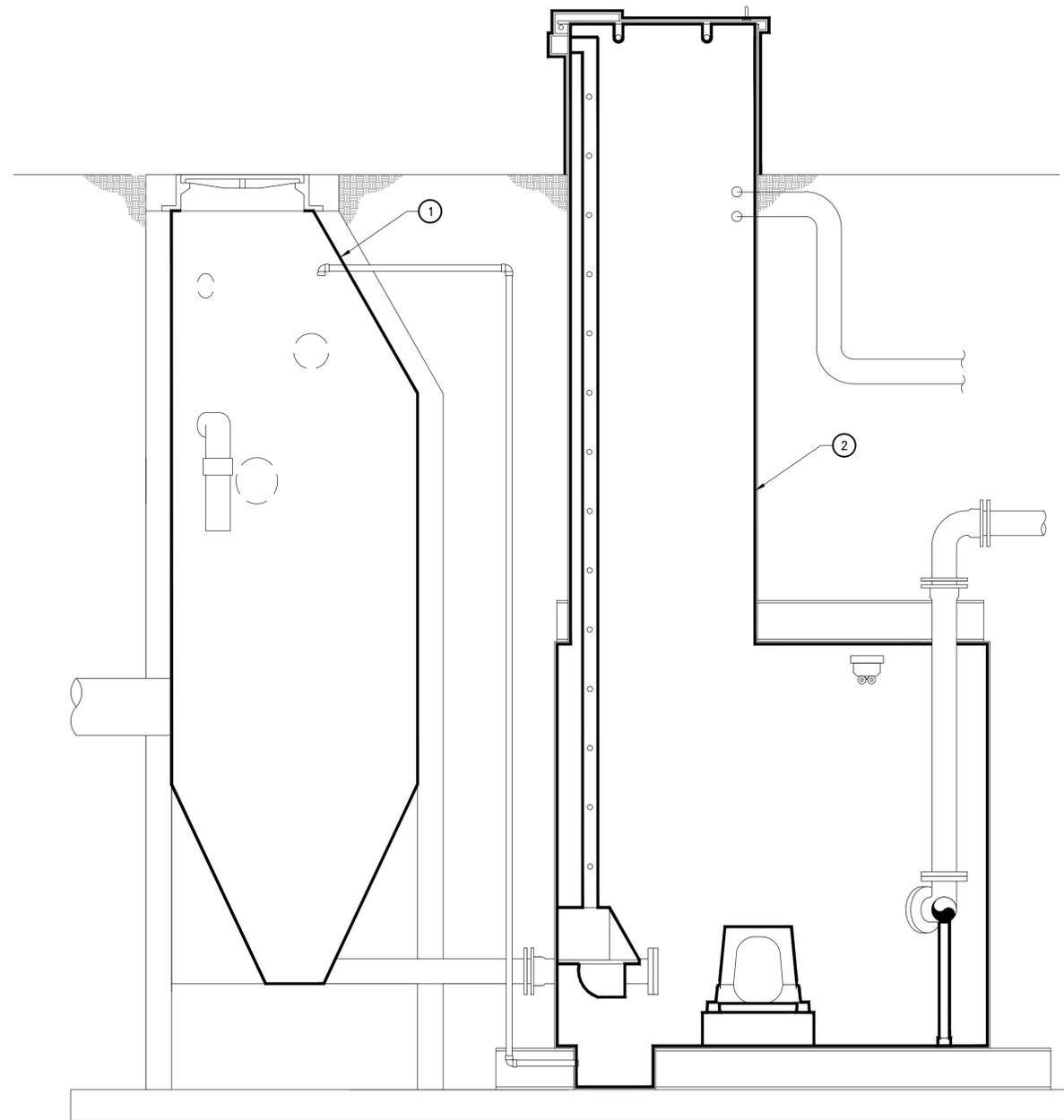
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CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
SITE PLAN
TILLAMOOK, TILLAMOOK COUNTY, OR



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EAST ELEVATION
SCALE 3/4" = 1'

COATING NOTES:

- ① CLEAN, PREPARE, AND COAT ALL EXPOSED CONCRETE WET WELL SURFACES. SEE SPECIFICATIONS FOR DETAILS.
- ② CLEAN, PREPARE, AND COAT ALL EXPOSED STEEL DRY WELL SURFACES. SEE SPECIFICATIONS FOR DETAILS.



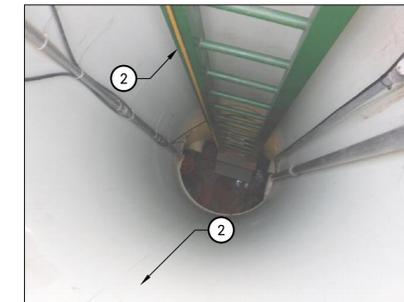
CONCRETE WET WELL INTERIOR.



EXTERIOR OF DRY WELL ENTRANCE TUBE, HATCH CLOSED.



EXTERIOR OF DRY WELL ENTRANCE TUBE, HATCH OPEN



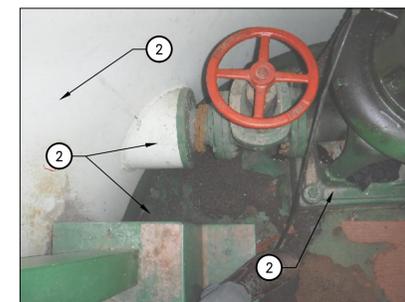
INTERIOR OF DRY WELL ENTRANCE TUBE AND LADDER.



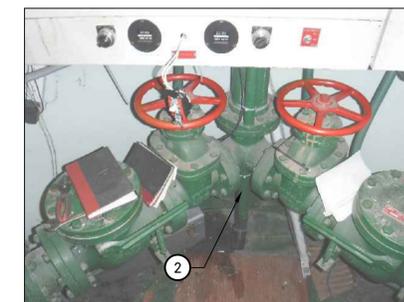
CEILING OF DRY WELL.



DRY WELL SUMP AND FLOOR.

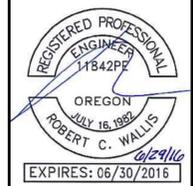


DRY WELL WALL, FLOOR, INTAKE PIPE PENETRATION (TYP 2), AND PUMP STAND (TYP 2).



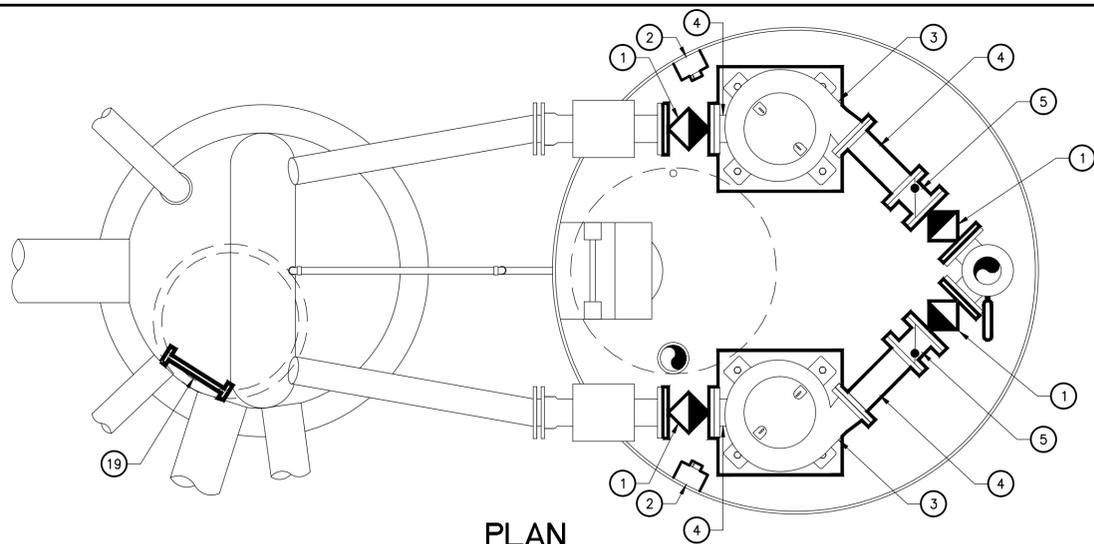
PIPE STAND.

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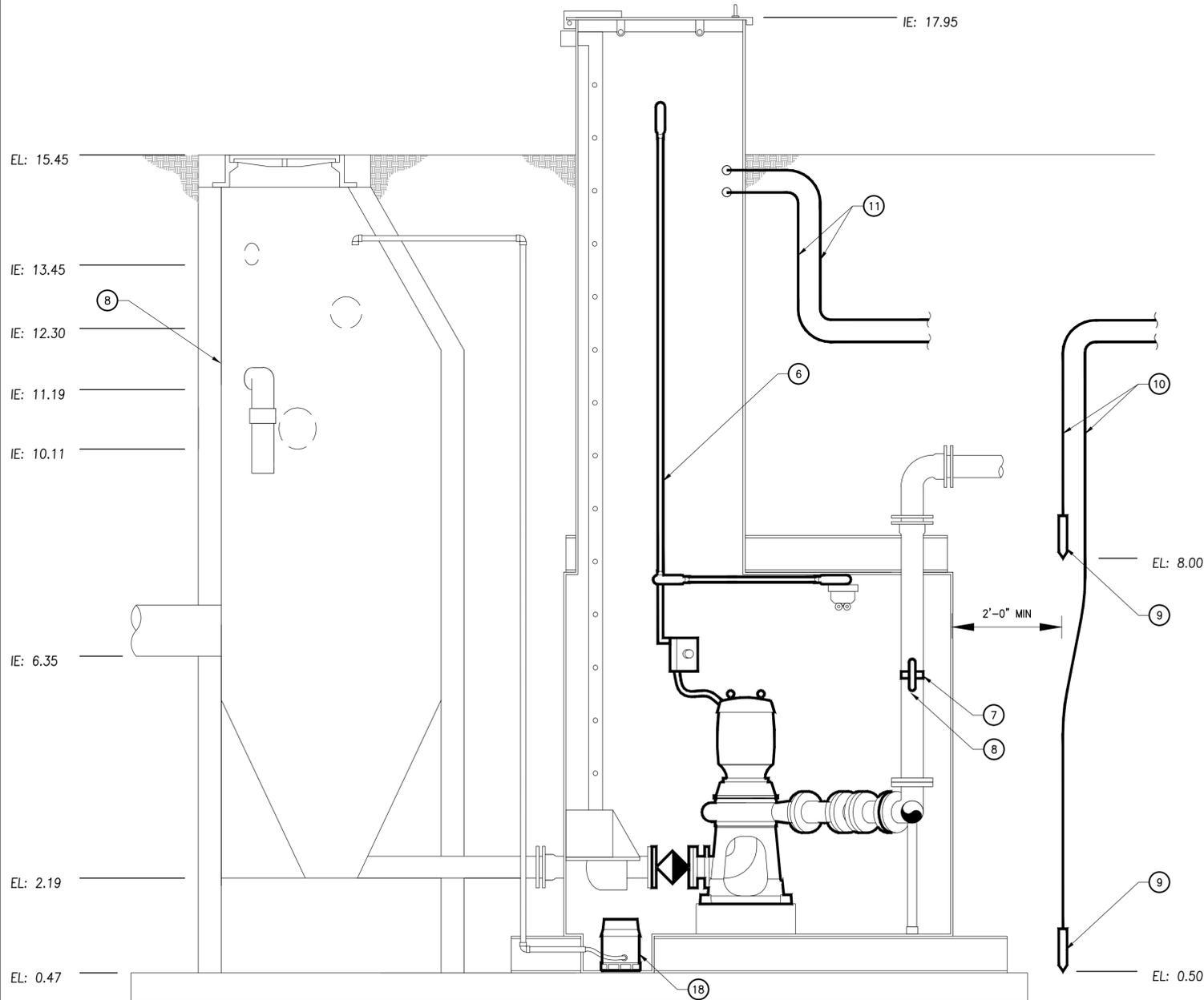
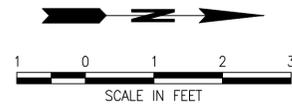


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
COATING PLAN
TILLAMOOK, TILLAMOOK COUNTY, OR

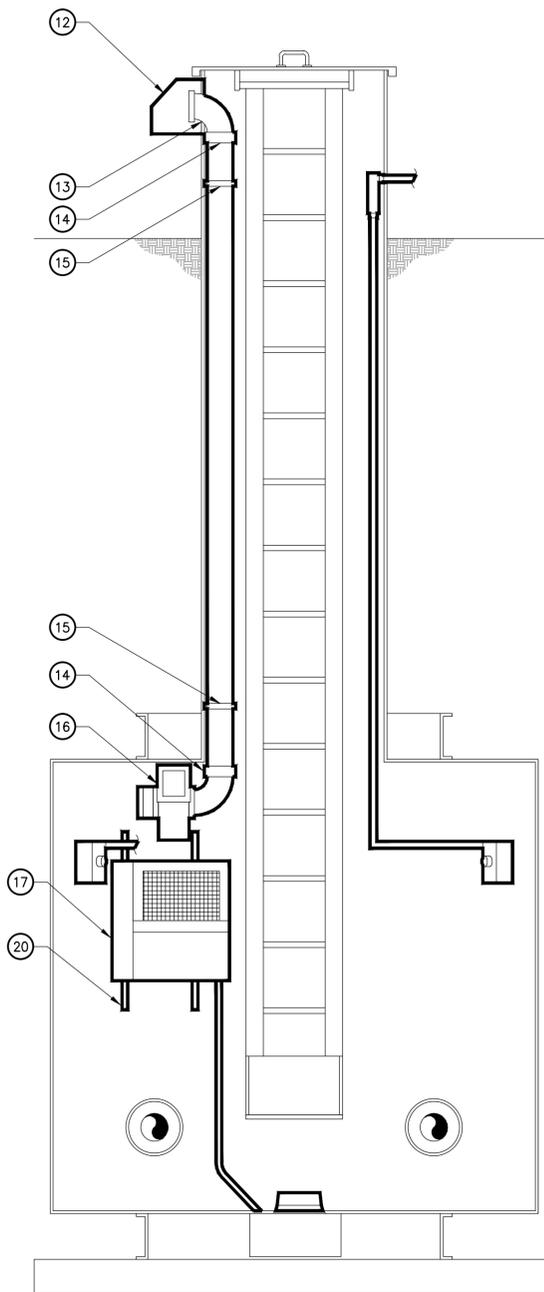




PLAN
SCALE 3/4" = 1'



EAST ELEVATION
SCALE 3/4" = 1'

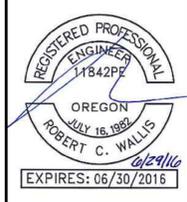


NORTH ELEVATION
SCALE 3/4" = 1'

CONSTRUCTION NOTES:

- ① INSTALL 4-INCH ECCENTRIC PLUG VALVE (TYP 4).
- ② INSTALL PUMP DISCONNECT SWITCH ADJACENT TO PUMP. USE HUBBELL MODEL HBLD53 OR APPROVED EQUAL (TYP 2).
- ③ INSTALL SMITH & LOVELESS 3 HP 1-SERIES MOTOR WITH 4B2Y PUMP OR APPROVED EQUAL, AND SUCTION ELBOW (TYP 2).
- ④ INSTALL 4-INCH FL SPOOL, LENGTH TO BE DETERMINED BY PUMP MANUFACTURER (TYP 4).
- ⑤ INSTALL 4-INCH SMITH & LOVELESS RAPIDJACK WAFER CHECK VALVE OR APPROVED EQUAL (TYP 2).
- ⑥ REPLACE EXISTING CONDUIT WITH PVC ELECTRICAL CONDUIT, SIZE AND SCHEDULE TO BE DETERMINED BY ELECTRICAL ENGINEER, SEE SHEET PS11 FOR ELECTRICAL INFORMATION.
- ⑦ SST SADDLE TAP
- ⑧ INSTALL PRESSURE GAUGE.
- ⑨ COPPER/ COPPER SULFATE REFERENCE ELECTRODE (TYP 2).
- ⑩ REFERENCE ELECTRODE TEST LEAD ROUTED TO JUNCTION BOX IN CONTROL BUILDING (TYP 2), 36" MINIMUM BURY DEPTH.
- ⑪ STRUCTURE #8 HEADER AND #12 TEST LEAD ROUTED TO JUNCTION BOX, 36" MINIMUM BURY DEPTH.
- ⑫ AIR INTAKE BOX
- ⑬ GASKET
- ⑭ 4" PVC 90° BEND (TYP 2)
- ⑮ SST HANGER STRAP AND HARDWARE (TYP 2)
- ⑯ INSTALL BLOWER ASSEMBLY.
- ⑰ INSTALL WALL MOUNTED DEHUMIDIFIER, PLUMB AS REQUIRED FOR DRAINAGE TO SUMP.
- ⑱ INSTALL SUMP PUMP, CONNECTED TO EXISTING SUMP DRAIN PLUMBING AS REQUIRED.
- ⑲ REPLACE EXISTING LADDER WITH HOT-DIP GALVANIZED LADDER, STEPS AND DIMENSIONS IN KIND.
- ⑳ MOUNT DEHUMIDIFIER TO SST CHANNEL, UNISTRUT OR EQUAL. CHANNEL TO BE FASTENED TO WET WELL WALL USING SST ANCHORS. WELDING TO WET WELL WALL SHALL NOT BE PERMITTED.

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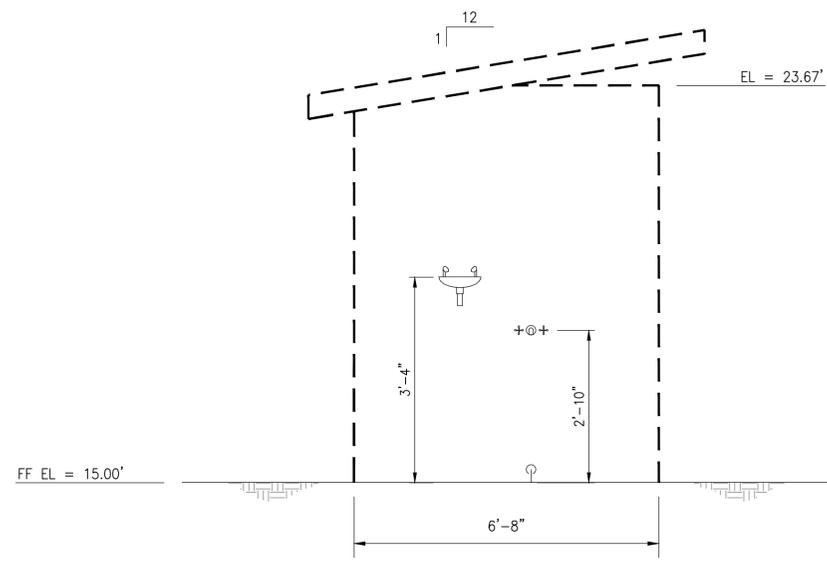


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
MECHANICAL PLAN
TILLAMOOK, TILLAMOOK COUNTY, OR



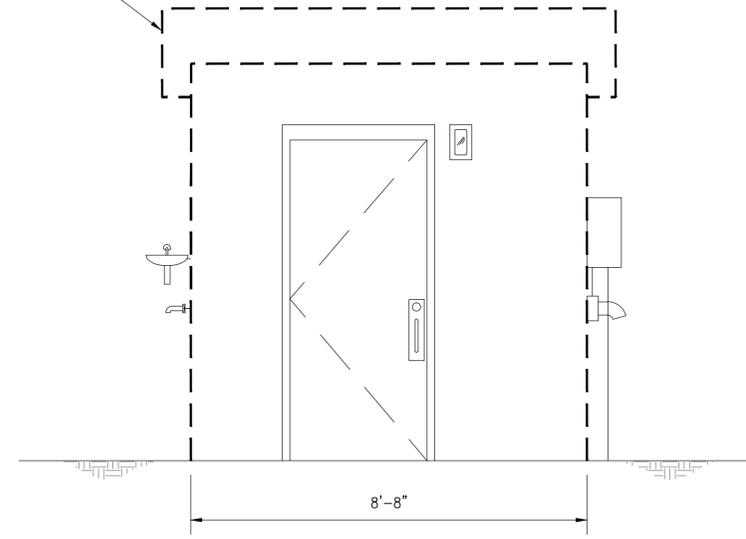
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WEST ELEVATION
SCALE 1/2" = 1'

ROMTEC PRE-ENGINEERED CONTROL BUILDING, MODEL 2640 WITH MODIFICATIONS, OR APPROVED EQUAL



SOUTH ELEVATION
SCALE 1/2" = 1'



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
CONTROL BUILDING ELEVATIONS
TILLAMOOK, TILLAMOOK COUNTY, OR



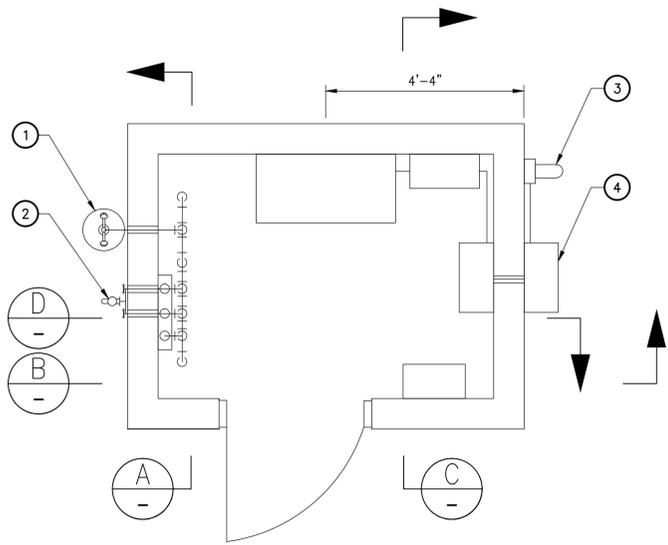
Project No. P13013

PS08

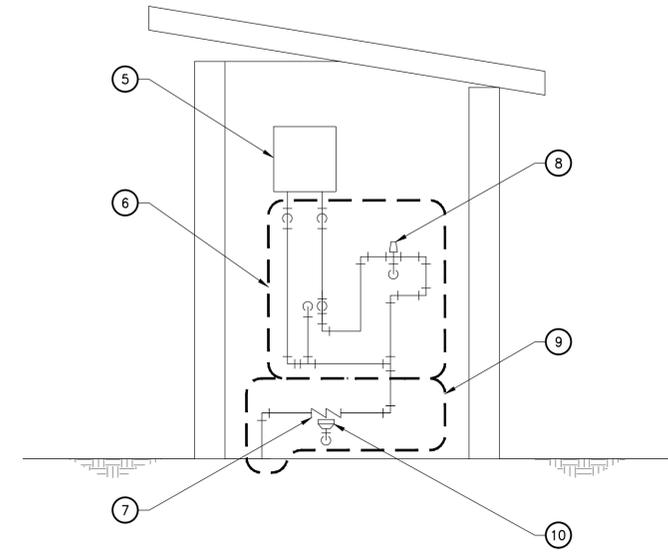
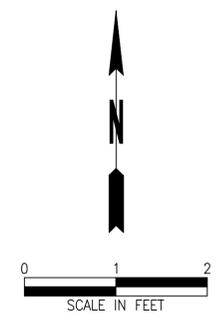
Sheet No. 42 of 47

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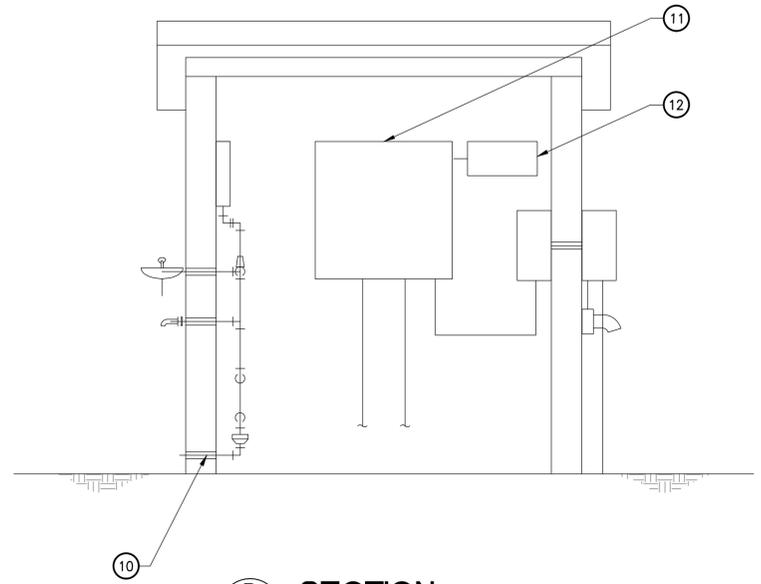
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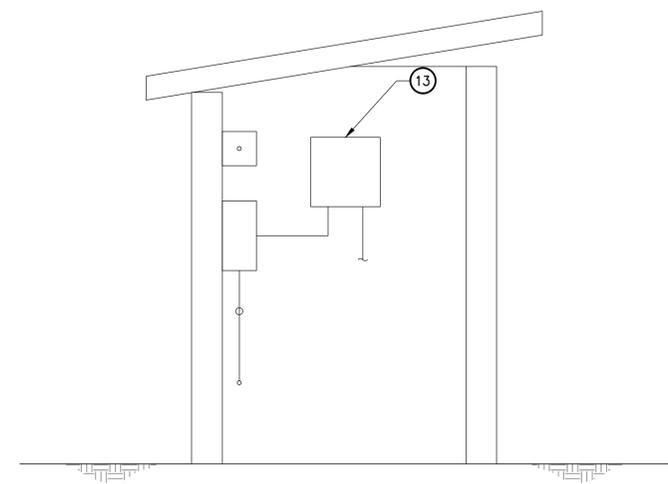
PLAN
SCALE 1/2" = 1'



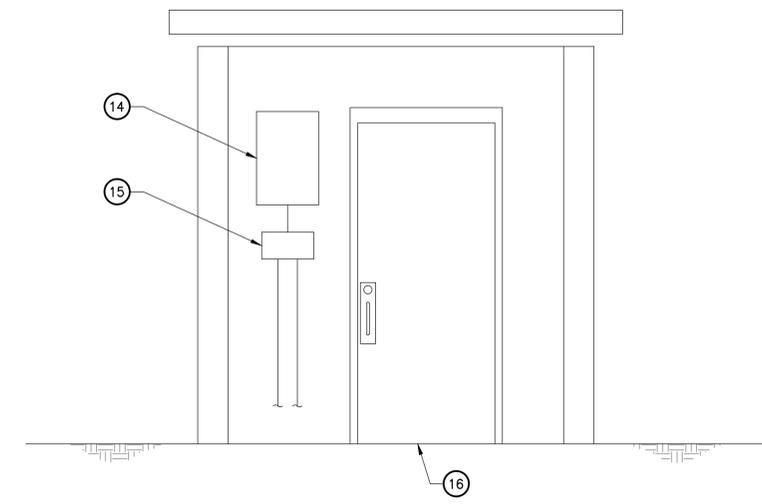
A SECTION
SCALE 1/2" = 1'



B SECTION
SCALE 1/2" = 1'



C SECTION
SCALE 1/2" = 1'



D SECTION
SCALE 1/2" = 1'

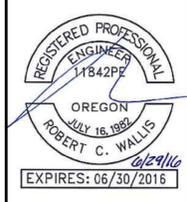
GENERAL NOTES:

1. HEAT TAPE TRACE REQUIRED FOR ALL EXPOSED PIPING AND FIXTURES.
2. ALL WALL PENETRATIONS SHALL HAVE ANNULAR VOIDS GROUTED FLUSH WITH WALL.

CONSTRUCTION NOTES:

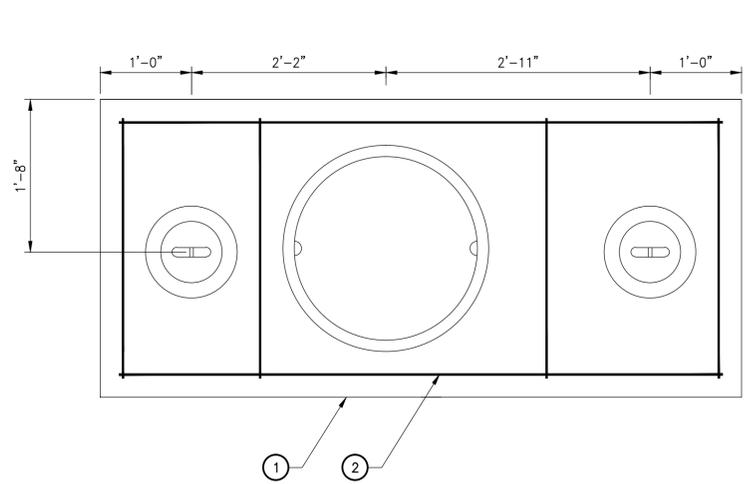
1. INSTALL WALL MOUNT EMERGENCY EYEWASH.
2. INSTALL HOT/COLD WATER HOSE BIBB.
3. INSTALL BACKUP GENERATOR PLUG, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
4. INSTALL SALVAGED MANUAL TRANSFER SWITCH, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
5. INSTALL 240V TANKLESS, ON-DEMAND HOT WATER HEATER.
6. INSTALL 3/4" TYPE K RIGID COPPER PIPE AND FITTINGS AS REQUIRED.
7. INSTALL 1" RPBA.
8. INSTALL 1" THERMOSTATIC MIXING VALVE.
9. INSTALL 1" TYPE K RIGID COPPER PIPE AND FITTINGS AS REQUIRED.
10. CONSTRUCT CATCHMENT BOWL, DRAINED TO OUTSIDE OF STRUCTURE AS SHOWN.
11. INSTALL NEW SMITH & LOVELESS QUICKSMART CONTROL CABINET OR APPROVED EQUAL, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
12. INSTALL SALVAGED AUTODIALER ALARM SYSTEM, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
13. INSTALL 120/240 V SUBPANEL TO PROVIDE POWER TO SINGLE PHASE EQUIPMENT, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
14. RECTIFIER AND RIGID ELECTRICAL CONDUIT AS REQUIRED, SEE SHEET PS11 FOR ELECTRICAL REQUIREMENTS.
15. JUNCTION BOX AND RIGID ELECTRICAL CONDUIT AS REQUIRED.
16. SLOPE FLOOR AT 0.5% MINIMUM TO DRAIN AT DOORWAY. PROVIDE 0.13" TO 0.25" CLEAR OPENING AT BOTTOM OF DOORWAY.

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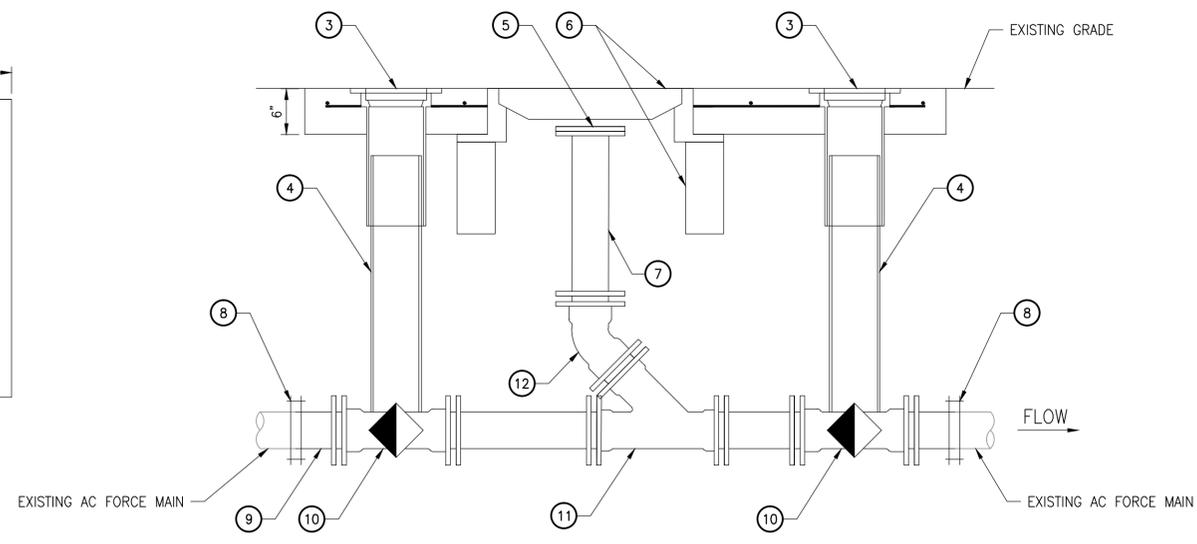


CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
CONTROL BUILDING SECTIONS
TILLAMOOK, TILLAMOOK COUNTY, OR





PLAN
SCALE 1" = 1'-0"



ELEVATION
SCALE 1" = 1'-0"

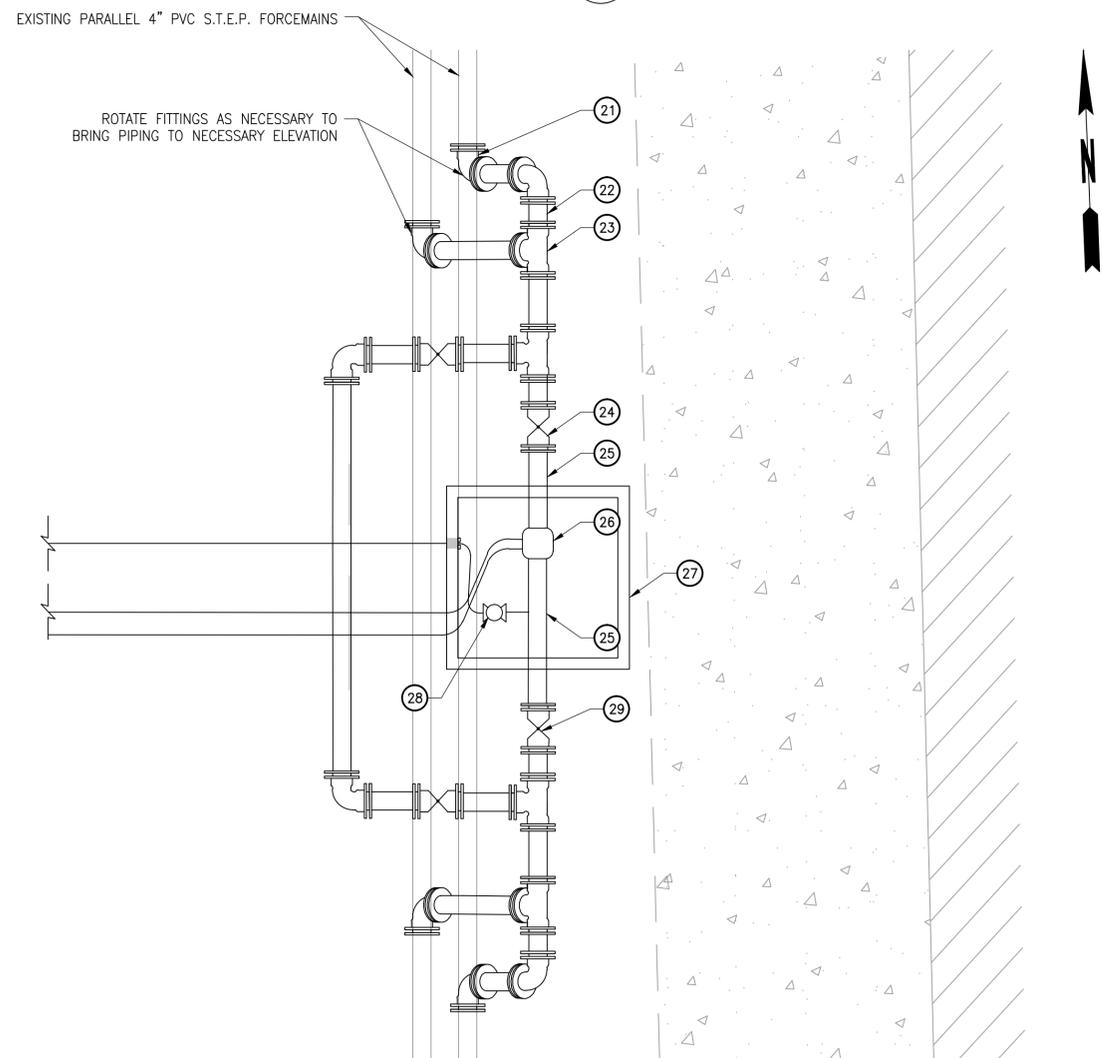
DETAIL 1 GENERAL NOTES

1. WRAP ALL DI FITTINGS AND VALVES WITH 8 MIL POLYETHYLENE PRIOR TO BACKFILLING.
2. ALL MJ JOINTS SHALL BE RESTRAINED.

DETAIL 1 CONSTRUCTION NOTES:

1. CONSTRUCT PAD USING 3000 PSI REINFORCED CONCRETE TO DIMENSIONS SHOWN.
2. USE #4 REBAR (TYP). REBAR SHALL BE 2" DEEP AND 3" FROM EDGE OF PAD.
3. INSTALL OLYMPIC FOUNDRY VB910 CAST IRON VALVE BOX WITH COVER MARKED "SEWER", OR APPROVED EQUAL (TYP 2).
4. INSTALL 6" DR 35 D3034 PVC PIPE RISER (TYP 2). SECURE PVC PIPE SPACERS TO VALVES WITH POLYETHYLENE TAPE.
5. INSTALL 4" BLIND FLANGE.
6. INSTALL STANDARD MANHOLE FRAME AND 12" GRADE RING.
7. INSTALL 4" FL X PE CL 52 DI PIPE SEGMENT.
8. INSTALL 4" ROMAC 501 COUPLING, OR APPROVED EQUAL (TYP 2).
9. INSTALL 4" DR 18 C900 PVC PIPE BETWEEN VALVES AND FITTINGS (TYP UNLESS OTHERWISE NOTED).
10. INSTALL SALVAGED 4" MJ ECCENTRIC PLUG VALVE (TYP 2)
11. INSTALL 4" MJ WYE.
12. INSTALL 4" MJ 45° BEND.

1 PERMANENT BYPASS ASSEMBLY
PS05 SCALE 1" = 1'-0"



2 ODOR CONTROL INJECTION VAULT
PS05 SCALE 1" = 2'-0"

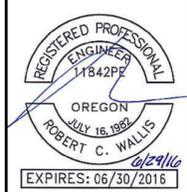
DETAIL 2 GENERAL NOTES

1. WRAP ALL DI FITTINGS AND VALVES WITH 8 MIL POLYETHYLENE PRIOR TO BACKFILLING. SECURE PVC PIPE SPACERS TO VALVES WITH POLYETHYLENE TAPE.
2. ALL MJ JOINTS SHALL BE RESTRAINED.

DETAIL 2 CONSTRUCTION NOTES:

21. INSTALL 4" MJ 90° BEND (TYP 8).
22. INSTALL 4" DR18 C900 PVC PIPE BETWEEN VALVES & FITTINGS (TYP UNLESS OTHERWISE NOTED).
23. INSTALL 4" MJ TEE (TYP 4).
24. INSTALL SALVAGED 4" GATE VALVE W/ 6" DR18 C900 PVC PIPE & OLYMPIC FOUNDRY VB910 CAST IRON VALVE BOX (TYP 3).
25. INSTALL SALVAGED 4" FL X PE DI PIPE SEGMENT (TYP 2).
26. INSTALL SALVAGED 4" FE METER.
27. INSTALL SALVAGED VAULT. REPLACE TOP WITH SAME-SIZED TOP, EQUIPPED WITH AN H-20 RATED HATCH.
28. INSTALL SALVAGED SODIUM HYPOCHLORITE INJECTION FITTINGS.
29. INSTALL 4" GATE VALVE W/ 6" DR18 C900 PVC PIPE & OLYMPIC FOUNDRY VB910 CAST IRON VALVE BOX.

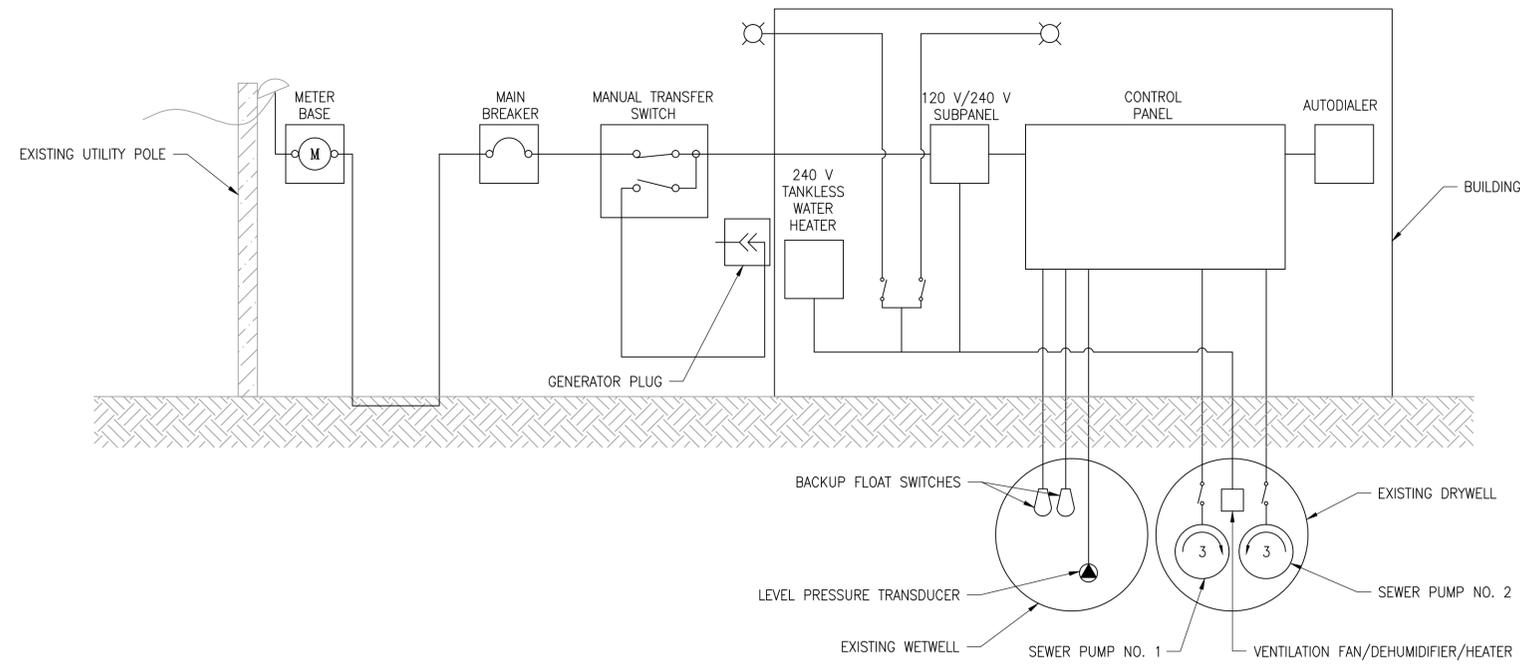
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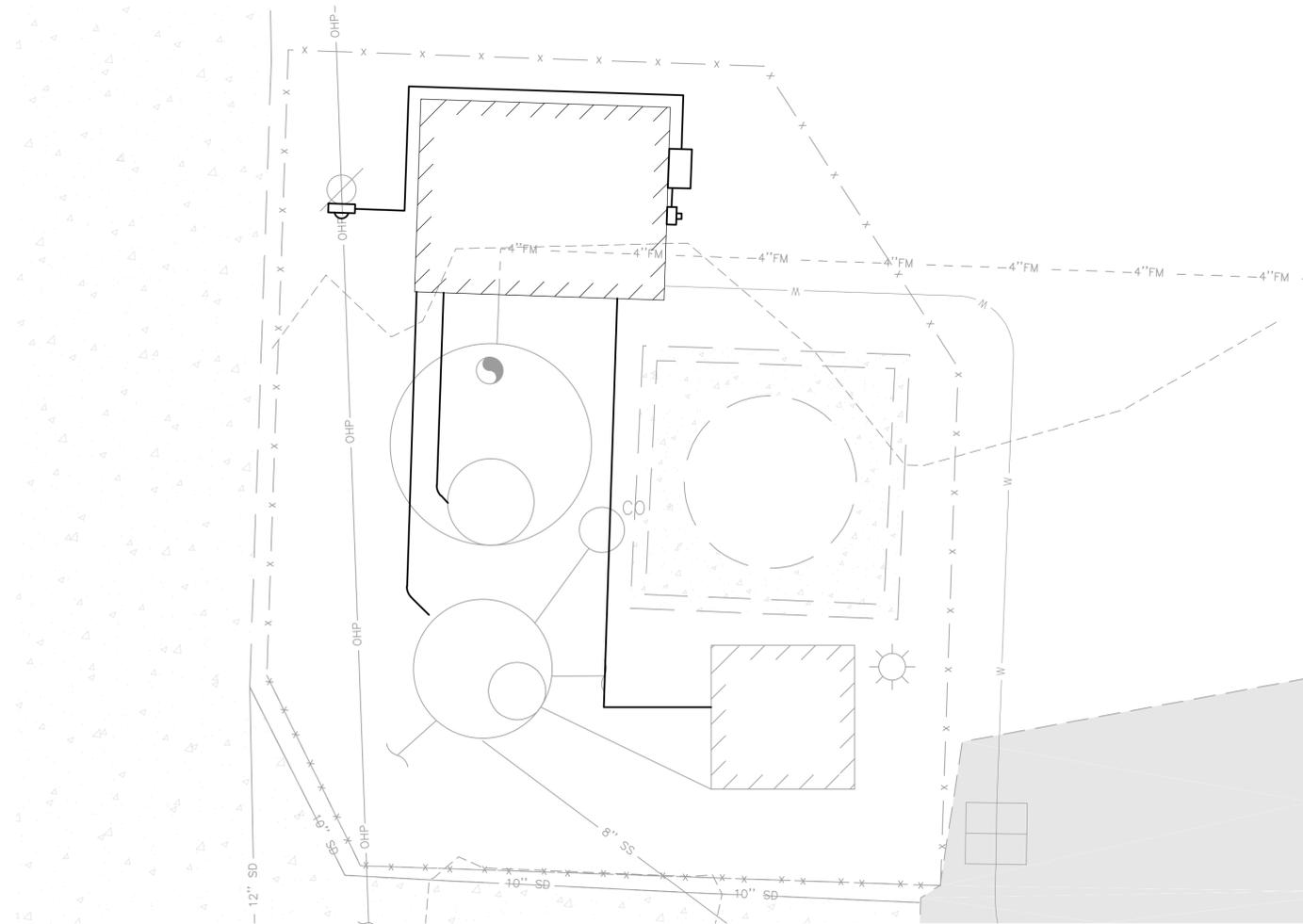
CITY OF TILLAMOOK
 TILLAMOOK SEWER REHABILITATION PROJECT
 FRONT STREET PUMP STATION
 CONNECTION DETAILS
 TILLAMOOK, TILLAMOOK COUNTY, OR



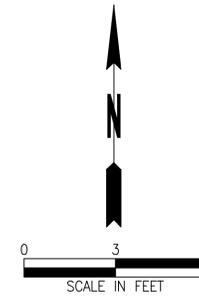
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ONE-LINE DIAGRAM



PLAN



GENERAL NOTES

1. THE SCHEMATIC DIAGRAM IS PROVIDED TO SHOW GENERAL LAYOUT FOR PROCESS AND CONTROL ONLY, CONTRACTOR SHALL HIRE AN ELECTRICAL ENGINEER LICENSED IN THE STATE OF OREGON TO DESIGN ELECTRICAL SYSTEM. DESIGN TO INCLUDE SIZING AND PLACEMENT OF CONDUCTORS AND PVC CONDUIT.
2. PUMPS SHALL OPERATE ALTERNATING. THERE SHALL BE A LEAD PUMP AND A LAG PUMP.
3. PUMP STATION WETWELL LEVEL SHALL BE MEASURED VIA A PRESSURE LEVEL TRANSDUCER COMPATIBLE WITH THE SUPPLIED CONTROL PANEL. ADDITIONALLY, HIGH-WATER AND LOW-WATER BACKUP FLOAT STYLE LEVEL SWITCH SHALL BE INSTALLED.
4. CONTROL PANEL SHALL BE A SMITH & LOVELESS CONTROL PANEL EQUIPPED WITH A QUICKSMART CONTROL SYSTEM OR APPROVED EQUAL.
5. CONTROL PANEL, SUBPANEL, AND AUTODIALER ENCLOSURES SHALL BE NEMA 3R RATED.

NO.	DATE	BY	Checked/Approval	REVISIONS



CITY OF TILLAMOOK
TILLAMOOK SEWER REHABILITATION PROJECT
FRONT STREET PUMP STATION
ELECTRICAL SITE PLAN AND ONE-LINE DRAWING
TILLAMOOK, TILLAMOOK COUNTY, OR



GENERAL NOTES

GENERAL REQUIREMENTS

GOVERNING CODE

THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE 2013 OREGON STRUCTURE SPECIALTY CODE (OSSC) BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC) WITH AMENDMENTS. ALTERATIONS TO EXISTING STRUCTURE ARE IN ACCORDANCE WITH IBC SECTION 3404.

DESIGN LOADS

WIND 90MPH
SEISMIC $S_s=1.32$
SITE CLASS D
SNOW LOAD 25 PSF

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTIONS 1704 TO 1708. FOUNDATIONS, FOOTINGS, UNDER SLAB SYSTEMS AND FRAMING ARE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC 110.3. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

SPECIAL INSPECTORS SHALL BE EMPLOYED BY THE OWNER TO PROVIDE SPECIAL INSPECTIONS FOR THE PROJECT.

CAST-IN-PLACE CONCRETE

CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

CONTRACTOR TO SUBMIT ALL MIX DESIGNS REQUIRED BY ACI 301 SECTION 4.2.1.

CONTRACTOR TO USE THE FOLLOWING MIX DESIGN REQUIREMENTS

FOOTINGS AND FLOOR SLABS
 $f'_c = 4000$ PSI, 28 DAY STRENGTH
1 INCH MAXIMUM AGGREGATE
0.5 MAXIMUM WATER/CEMENT RATIO
6% +/- 1% AIR ENTRAINMENT

CONCRETE REINFORCING

CONCRETE REINFORCING SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".

CONTRACTOR SHALL SUBMIT PLACING DRAWINGS SHOW FABRICATION DIMENSIONS AND LOCATIONS FOR PLACEMENT OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.

MATERIALS SHALL CONFORM TO THE FOLLOWING:

REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED BARS

WELDING OF REINFORCING STEEL IS NOT PERMITTED.

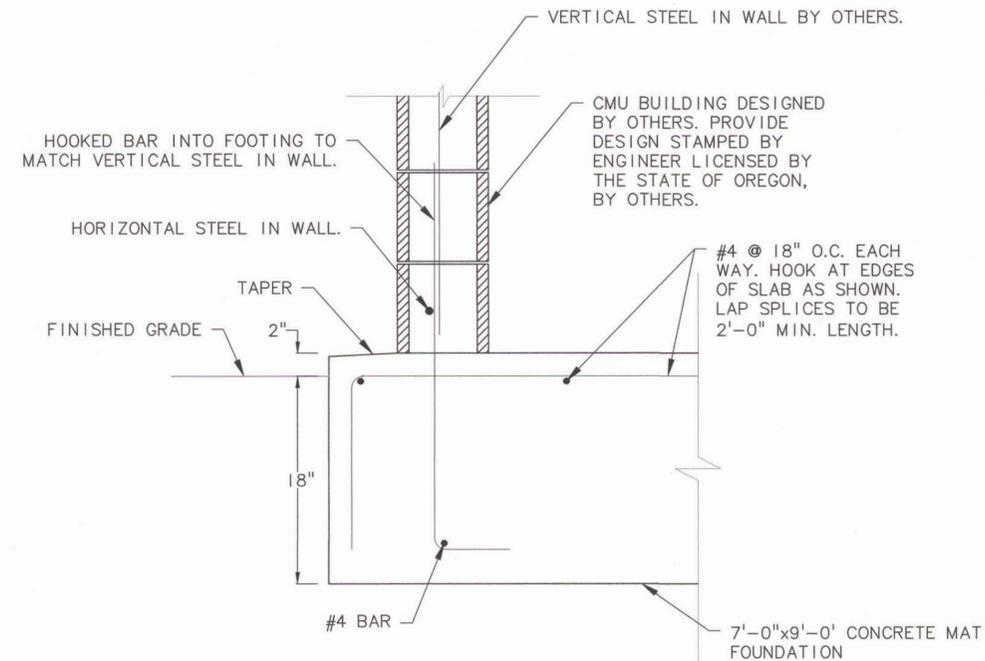
UNLESS OTHERWISE NOTED ON PLANS, CONCRETE COVER SHALL BE:

FOOTING BOTTOM REINFORCEMENT - 3"
SLAB ON GRADE REINFORCEMENT - 2" FROM TOP
ALL OTHER REINFORCEMENT - 2"

CMU BUILDING

CMU BUILDING TO BE DESIGNED BY OTHERS. MAXIMUM AVERAGE HEIGHT OF BUILDING TO BE 10FT. MAXIMUM PLAN DIMENSIONS TO BE 7FT X 9FT.

BUILDING TO BE DESIGNED TO LOADS OUTLINES ABOVE.



FOOTING DETAIL

$$\frac{3}{4}'' = 1'-0''$$

TABLE 1704.4				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL.	-	X	ACI 318: 3.5, 7.1-7.7	1913.4000
2. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	-	X	"ACI 318: 3.8.6, 8.1.3, 21.2.8"	1912.1000
3. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: Ch. 4.5.2-5.4	1904.2.2, 1913.2, 1913.3
4. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	"ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8"	1913.1000
5. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
6. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1913.9000
TABLE 1704.7				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC		
1. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		

Initial Issue By:	
Checked/Revisions:	
BY:	
DATE:	
NO.:	



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