# **SANITARY SEWER OVERFLOW IMPROVEMENTS SMITH-MOORE ALLEY & 4TH STREET SCHOOLING & 4TH STREET** HARRISBURG, OREGON GENERAL NOTES

#### LEGEND

#### EXISTING

(E)OHP
——(E)G——(E)G——
(E)SD
(E)WW
(E)W
(E)T
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— <u>X</u> X —
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WM

ROPERTY LINE	ww
DJOINER PROPERTY LINE	(SD)
JRB	
DGE OF ASPHALT	
VERHEAD WIRES	
AS LINE	•
ORMWATER LINE	
ASTEWATER LINE	J J
ATER LINE	
NDERGROUND TELEPHONE LINE	8
ONTOUR LINE	0
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DGE OF GRAVEL LINE	
RE HYDRANT	$\sim$
ATER METER	AD
ATER VALVE	Eis
ATER IRRIGATION VALVE	
DSE BIB	
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WASTEWATER MANHOLE
STORM DRAIN MANHOLE
CURB INLET
CATCH BASIN
MAIL BOX
SIGN
GUY WIRE
ELECTRIC POLE
TELEPHONE RISER
GAS VALVE
CLEAN OUT
CONCRETE
BUILDING
DECIDUOUS TREE
EVERGREEN TREE

#### ABBREVIATIONS

TC	TOP OF CURB
GL	GUTTER LINE
С	CONCRETE
AC	ASPHALT CONCRETE
BW	BACK OF WALK
HMAC	HOT MIX ASPHALT
MAX.	MAXIMUM
MIN.	MINIMUM
PSI	POUNDS PER SQUARE INCH
STA.	STATION
HWY.	HIGHWAY
STD.	STANDARD
DWG	DRAWING
W/L	WATERLINE
EX.	EXISTING
PROP.	PROPOSED
SAN	SANITARY
LAT	LATERAL
IE	INVERT ELEVATION
ELEV.	ELEVATION
FG	FINISHED GRADE

#### FG FINISHED GRADE EG EXISTING GRADE

#### PROPOSED

PRUPUSED
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[ <b>W</b> ]
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MB

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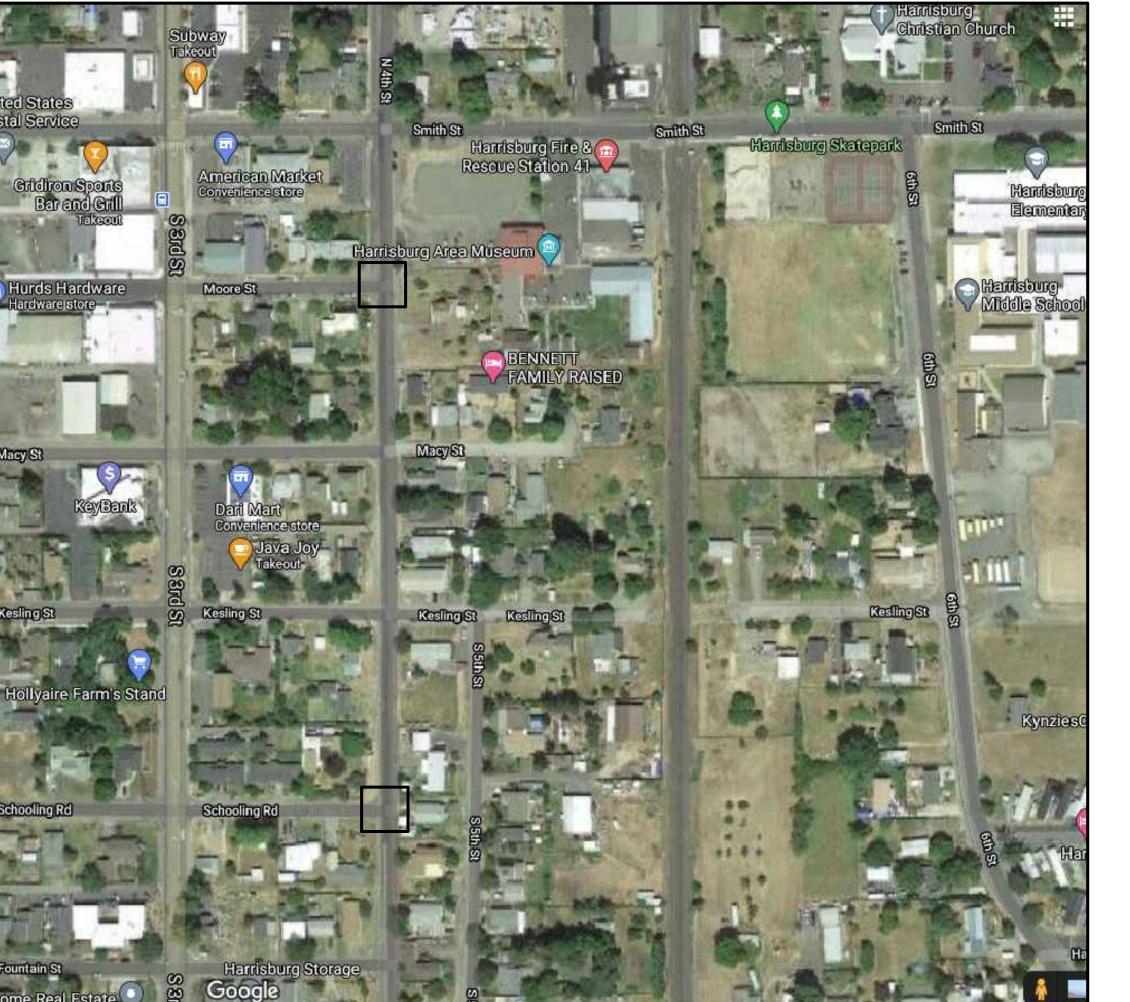
- SAWCUT - PROPERTY LINE ADJOINER PROPERTY LINE 🗕 CURB STORMWATER LINE - WASTEWATER LINE WATER LINE CONTOUR LINE – FENCE CONCRET ASPHALT FIRE HYDRANT WATER METER STORM DRAIN MANHOLE CATCH BASIN MAIL BOX SIGN GUY WIRE

ELECTRIC POLE

Rivertront loore S

VERT.	HORIZONTAL VERTICAL OREGON DEPARTMENT OF TRANSPORTATION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
LVC	
BVCS	BEGIN VERTICAL CURVE STATION
EVCS	END VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
EVCE	END VERTICAL CURVE ELEVATION
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
CL	CENTERLINE
L	LEFT
R	RIGHT
WW	WASTEWATER
SS	SANITARY SEWER
SD	STORM DRAIN
STM	STORM
MH	MANHOLE
СВ	CATCH BASIN
DCVA	DOUBLE CHECK VALVE ASSEMBLY

<b></b>		
	UTILITY PROVIDERS	
UTILITY	PROVIDER	PHONE NUMBER
WATER	CITY OF HARRISBURG	541-995-6655
SEWER	CITY OF HARRISBURG	541-995-6655
STORM	CITY OF HARRISBURG	541-995-6655
ELECTRIC	PACIFIC POWER	503-255-4634
GAS	NW NATURAL	503-220-2415
TELEPHONE	CENTURY LINK	800-283-4237
TELEVISION	COMCAST	541-230-0079



- EXCAVATING.

- CHANGE ORDER.

- COMPLETION OF PROJECT.

- STORED AS DIRECTED.
- SPFCIFIFD.



A. ALL WORK SHALL MEET THE FOLLOWING SPECIFICATIONS "2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "2021 OREGON STANDARD DRAWINGS".

B. THE LOCATION UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL CALL THE "ONE-CALL" UTILITY LOCATION NUMBER, 1-800-332-2344, FOR FIELD LOCATION AND DEPTH BEFORE

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

D. CONTRACTOR SHALL FIELD VERIFY UNDERGROUND FACILITIES DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE CORRECTION OF ANY UNDERGROUND UTILITY FACILITIES DAMAGED BY CONTRACTOR'S WORK.

E. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES NECESSARY TO PROTECT AND SAFEGUARD THE PUBLIC AND WORKERS AGAINST INJURY AND PROTECT THE WORK AGAINST DAMAGE. ALL TEMPORARY TRAFFIC CONTROL SIGNING AND DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING WORK. ALL TRAFFIC CONTROL SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (M.U.T.C.D.), CURRENT EDITION, AS SUPPLEMENTED AND AMENDED BY THE OREGON SUPPLEMENTS AND AS SHOWN IN THE OREGON DEPARTMENT OF TRANSPORTATION, "2011 TEMPORARY TRAFFIC CONTROL HANDBOOK". THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED TRAFFIC CONTROL AS FIELD CONDITIONS WARRANT.

F. RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS AND PERMANENTLY STABILIZE ALL AREAS DISTURBED DURING THE COURSE OF THE PROJECT.

G. CONTRACTOR SHALL HANDLE AND DISPOSE OF ASBESTOS PIPE IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL REGULATIONS. CONTRACTOR RESPONSIBLE FOR NECESSARY PERMITS AND FEES.

H. CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, COUNTY, STATE, AND UTILITY CONSTRUCTION PERMITS, AND SHALL CONTACT EACH PERMITTING AGENCY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES BEFORE STARTING CONSTRUCTION.

DESIGN IS BASED ON A LIMITED SURVEY, AERIAL PHOTOGRAPHY, AND MAPPING. CONTRACTOR MAY NEED TO WORK AROUND FACILITIES OR OBJECTS NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM A SITE VISIT TO BECOME FAMILIAR WITH THE WORKSITE, CONDITIONS, AND ANY UNMAPPED FEATURES THAT MAY AFFECT WORK. MINOR ADJUSTMENTS OF THE WORK SHALL NOT BE GROUNDS FOR A

CONTRACTOR SHALL EMPLOY EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT FROM ENTERING STORMWATER COLLECTION SYSTEMS. BIOBAGS, FILTER INSERTS, OR SIMILAR SHALL BE USED IN ANY DOWNSTREAM CATCH BASIN OR INLET. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION (ANY TIME OF YEAR) PER THE REQUIREMENTS OF "2021 OREGON STANDARD SPEC. FOR CONSTRUCTION" & THE "2021 OREGON STANDARD DRAWINGS", LINN COUNTY AND THE OREGON DEQ.

. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ORS 757.541 TO 757.571. THE CONTRACTOR SHALL NOTIFY EACH UNDERGROUND UTILITY AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, PRIOR TO EXCAVATING, BORING, OR POTHOLING.

NO ADDITIONAL PAYMENT SHALL BE MADE FOR UTILITY RELOCATION COORDINATION OR DELAYS CAUSED BY UTILITY CONFLICTS. ALL COSTS RELATED TO UTILITY COORDINATION AND RELOCATION, INCLUDING ADDITIONAL POTHOLING, ARE TO BE CONSIDERED INCIDENTAL AND INCLUDED IN THE UNIT PRICES OF THE

M. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES, UNLESS OTHERWISE REQUIRED BY THE OWNER.

N. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE PLANS AND PROJECT SPECIFICATIONS. O. CONTRACTOR SHALL KEEP AND MAINTAIN A CURRENT SET OF DRAWINGS ON SITE. CONTRACTOR TO KEEP ACCURATE "AS-BUILT" RECORD COPY OF PLANS. "AS-BUILT" PLANS TO BE RETURNED TO OWNER AT

P. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL HOMES AND BUSINESSES AT ALL TIMES. PROVIDE WRITTEN NOTICE TO ALL PROPERTY OWNERS AT LEAST TWO BUSINESS DAYS IN ADVANCE OF WORK.

Q. CONTRACTOR SHALL NOTIFY OWNER 48 HOURS BEFORE STARTING CONSTRUCTION, AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAY, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 48 HOURS PRIOR TO ANY TESTING OR REQUIRED INSPECTION.

R. ANY ALTERATION OR VARIANCE FROM THESE PLANS, EXCEPT MINOR FIELD ADJUSTMENT NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL FIRST BE APPROVED BY THE OWNER. ANY ALTERATIONS OR VARIANCE FROM THESE PLANS SHALL BE DOCUMENTED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE OWNER. ANY PROPOSED CHANGES IN CONSTRUCTION PLANS MUST BE SUBMITTED IN WRITING AND APPROVED BY OWNER PRIOR TO COMMENCING WORK.

S. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, SURVEY MONUMENTS AND CONTROL POINTS. SURVEY MONUMENTS OF THIS TYPE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE, WITH APPROPRIATE SURVEYS FILED WITH THE COUNTY SURVEYOR.

T. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED OR REPLACED MATERIAL AND EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, EXCEPT THOSE ITEMS DESIGNATED BY THE OWNER FOR SALVAGED ITEMS SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE CAREFULLY REMOVED AND

U. ALL STRUCTURES, LOTS, SWALES, DITCHES, CURBS, ROADWAY SURFACING, SIDEWALKS, FENCES, WALLS, MAILBOXES, SIGNS, POLES, GUY WIRES, IRRIGATION PIPING, PIPING, AND UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY CONTRACTOR TO EXISTING CONDITION UNLESS OTHERWISE

V. CONTRACTOR SHALL PROTECT TRAFFIC AT ALL TIMES DURING CONSTRUCTION. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY CITY, COUNTY, AND STATE AS REQUIRED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS TO THE OWNER FOR APPROVAL PRIOR TO COMMENCING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. W. CONTRACTOR TO COORDINATE AND WORK WITH PROPERTY OWNERS.

> SHEET # SHEET TITLE CO COVER SHEET SMITH ALLEY & 4TH EX. CONDITIONS & DEMOLITION C1 SMITH ALLEY & 4TH BORING PLAN & PROFILE C2 SCHOOLING & 4TH EX. CONDITIONS & DEMOLITION C3 SCHOOLING & 4TH BORING PLAN & PROFILE C4 C5 DETAILS DETAILS C6



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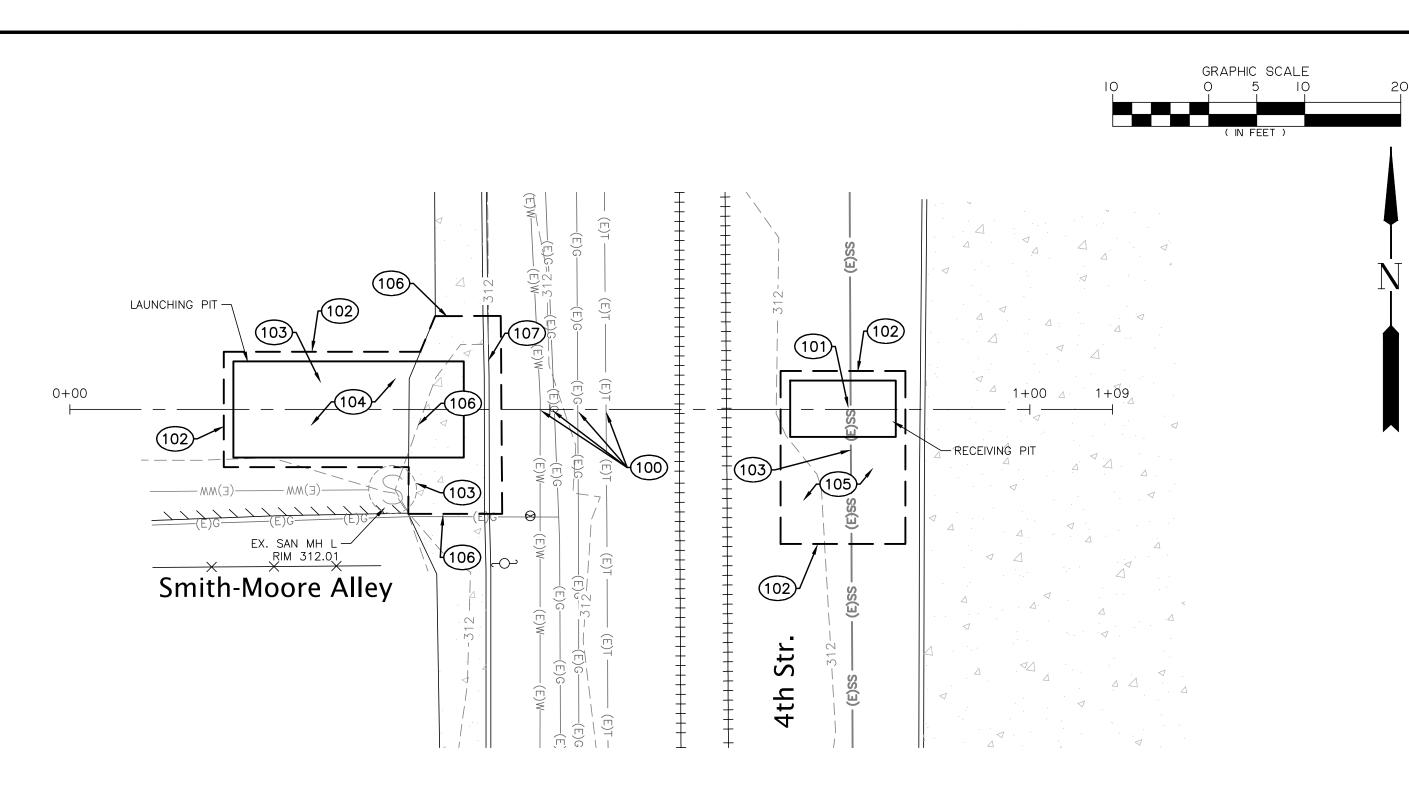
civil • transportation structural • geotechnical

SURVEYING

project no:	20-009D
designer:	GAM
drawn by:	GAM
date:	Feb 17, 2021

sheet

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## CONSTRUCTION NOTES

(100) - EXISTING UTILITY POTHOLED AND LOCATION, DEPTH, MATERIA
101 -POTHOLE EXISTING UTILITY AND VERIFY LOCATION, DEPTH, M
(102) - SAWCUT EXISTING AC PAVEMENT AND REMOVE SURFACING F SAWCUT 6 INCHES FROM EDGE OF ANY DAMAGED AC PAVEI
103 - PROTECT EXISTING UTILITY FROM DAMAGE.

104 - CONTRACTOR TO EXCAVATE LAUNCHING PIT LARGE ENOUGH TO ACCOMMODATE BORING EQUIPMENT AND DEEP ENOUGH TO CLEAR UNDERGROUND UTILITIES.

105 -- CONTRACTOR TO EXCAVATE RECEIVING PIT LARGE ENOUGH TO ACCOMMODATE END OF BORE CASING AND PROPOSED STANDPIPE VAULT. 106 -- SAWCUT EXISTING CONCRETE DRIVEWAY/SIDEWALK AND REMOVE SURFACING FROM SITE.

107 - SAWCUT AND REMOVE EXISTING CONCRETE CURB AND GUTTER AND REMOVE FROM SITE.

IAL AND SIZE HAVE BEEN VERIFIED. MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES. FROM SITE. INITIAL SAWCUT AT EDGE OF TRENCH. FINAL EMENT PER ODOT STD. DWG. RD302.



### CONSTRUCTION NOTES

<u>CONSTRUCTION NOTES</u>
300 - CONTRACTOR TO FURNISH AND INSTALL 33' OF 8" STE ODOT STANDARD DRAWING RD308 AND SECTION 406 C
301 - CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR CASING WITH APPROPRIATELY SIZED SPACERS. SEE OD ODOT CONSTRUCTION SPECIFICATIONS.
(302 - CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR 'B' BEDDING AND BACKFILL PER ODOT STANDARD DRAY
303 - CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR FORCE MAIN ALIGNMENT WITH CLASS 'B' BEDDING AND
304 - CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR FORCE MAIN ALIGNMENT WITH CLASS 'B' BEDDING AND
305 - CONTRACTOR TO CONNECT TO EXISTING SANITARY SEW PIPE IN PLACE USING NON-SHRINK GROUT.
306 CONTRACTOR TO FURNISH AND INSTALL SEWER FORCE SHEET C5.
307 - CONTRACTOR TO BACKFILL LAUNCHING PIT WITH 3/4"- DENSITY AS DETERMINED BY AASHTO T-180. COMPAC
308 - CONTRACTOR TO BACKFILL RECEIVING PIT WITH 3/4"-( DENSITY AS DETERMINED BY AASHTO T-180. COMPAC
309 - CONTRACTOR TO FURNISH AND INSTALL 4" THICKNESS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
310 CONTRACTOR TO CONSTRUCT CONCRETE DRIVEWAY APP
(31) - CONTRACTOR TO FURNISH AND INSTALL 48" DIAMETER LINE PER ODOT STANDARD DRAWING RD338.
315 CONTRACTOR TO FURNISH AND INSTALL CURB AND GU

STEEL PIPE CASING NOTE: STEEL PIPE CASING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM GRADE 2 WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI BEFORE COLD FORMING. CASING THICKNESS SHALL BE A MINIMUM OF 0.25 INCHES. ACTUAL CASING THICKNESS SHALL BE DETERMINED BY THE CASING INSTALLER BASED ON AN EVALUATION OF THE REQUIRED JACKING FORCES. ANY BUCKLING OF THE CASING DUE TO JACKING FORCES SHALL BE REPAIRED AT NO COST TO THE CITY.

CLASS 'B' BEDDING AND BACKFILL NOTE: CLASS 'B' SHALL BE 1"-0" OR  $\frac{3}{4}$ "-0" CRUSHED QUARRY ROCK.

REQUIRED TESTING AND FREQUENCY TABLE		PARTY	
		СС	
STREETS, PARKING LOTS, PADS, FILLS, ETC		_	
ASPHALT 1 TEST/6,000 S.F./LIFT (4 MIN.)	Х		
PIPED UTILITIES, ALL		_	
TRENCH BACKFILL 1 TEST/200 FOOT TRENCH/LIFT (4 MIN.)	Х		
TRENCH AC RESTORATION 1 TEST/300 FOOT OF TRENCH (4 MIN.)	Х		
WATER			
PRESSURE TEST (TO BE WITNESSED BY OWNER'S REPRESENTATIVE OR APPROVING AGENCY)	Х		
BACTERIAL WATER TEST PER OREGON HEALTH DIVISION	Х		
CHLORINE RESIDUAL TEST PER CITY REQUIREMENTS	х		
SANITARY SEWER (GRAVITY)			
PIPE -AIR OR HYDROSTATIC PER ODOT REQUIREMENTS. -DEFLECTION TESTING PER ODOT REQUIREMENTS. -VIDEO INSPECTION PER ODOT REQUIREMENTS.	Х		
MANHOLES VACUUM TESTING PER ODOT REQUIREMENTS	Х		
CONCRETE		_	
SLUMP, AIR & CYLINDERS FOR ALL STRUCTURES CURBS, SIDEWALKS AND PCC PAVEMENTS. UNLESS OTHERWISE SPECIFIED, ONE SET OF CYLINDERS PER 100 CUBIC YARDS (OR PORTION THEREOF) OF CONCRETE POURED PER DAY. SLUMP & AIR TESTS REQUIRED ON SAME LOAD AS CYLINDERS.	X		
NOTE 1: "OTHERS" REFERS TO CITY'S AUTHORIZED REPRESENTATIVE OF APP CONTRACTOR RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTI PERFORMING SUBSEQUENT WORK.			
NOTE 2: TESTING MUST BE PERFORMED BY AN APPROVED INDEPENDENT TE	ESTING	L	
NOTE 3: IN ADDITION TO IN-PLACE DENSITY TESTING, THE SUBGRADE AND ROLLED WITH A LOADED 10 YARD DUMP TRUCK PROVIDED BY THE PROOFROLL SHALL TAKE PLACE IMMEDIATELY PRIOR TO (WITHIN 2- WITNESSED BY THE CITY'S AUTHORIZED REPRESENTATIVE OR APPR PATTERN OF PROOFROLL TO BE DIRECTED BY SAID CITY'S REPRES	E CONT 4 HOUF OVING	R, RS A(	
NOTE 4: TO BE WITNESSED BY THE CITY'S REPRESENTATIVE OR APPROVING PERFORM PRE-TESTS PRIOR TO SCHEDULING WATERLINE OR SANI PIPELINE MANDREL TEST.			

TEEL CASING. SEE PROFILE FOR ELEVATIONS AND SLOPE. SEE OF THE 2021 ODOT CONSTRUCTION SPECIFICATIONS.

17 SEWER FORCE MAIN (PE4710, IPS, GREEN STRIPE) IN STEEL DOT STANDARD DRAWING RD308 AND SECTION 406 OF THE 2021

17 SEWER FORCE MAIN (PE4710, IPS, GREEN STRIPE) WITH CLASS WING RD300. 36" MINIMUM OF COVER.

17, 45 DEGREE HORIZONTAL BEND (BUTT FUSED) TO FOLLOW SEWER BACKFILL PER ODOT STANDARD DRAWING RD300.

17, 45 DEGREE VERTICAL BEND (BUTT FUSED) TO FOLLOW SEWER BACKFILL PER ODOT STANDARD DRAWING RD300.

VER MANHOLE BY CORE DRILLING EX. MANHOLE AND GROUTING 4" MAIN PUMP CONNECTION STAND PIPE AND VAULT PER DETAIL 1,

-0" CRUSHED QUARRY ROCK COMPACTED TO 95% RELATIVE MAXIMUM CT IN 12" LIFTS.

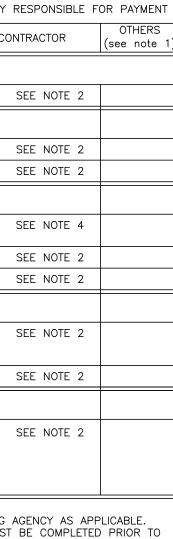
-0" CRUSHED QUARRY ROCK COMPACTED TO 95% RELATIVE MAXIMUM CT IN 12" LIFTS.

OF 1/2" DENSE, LEVEL 2 HMAC. FOLLOW THE 2021 OREGON

PROACH PER ODOT STANDARD DRAWING RD745, OPTION L.

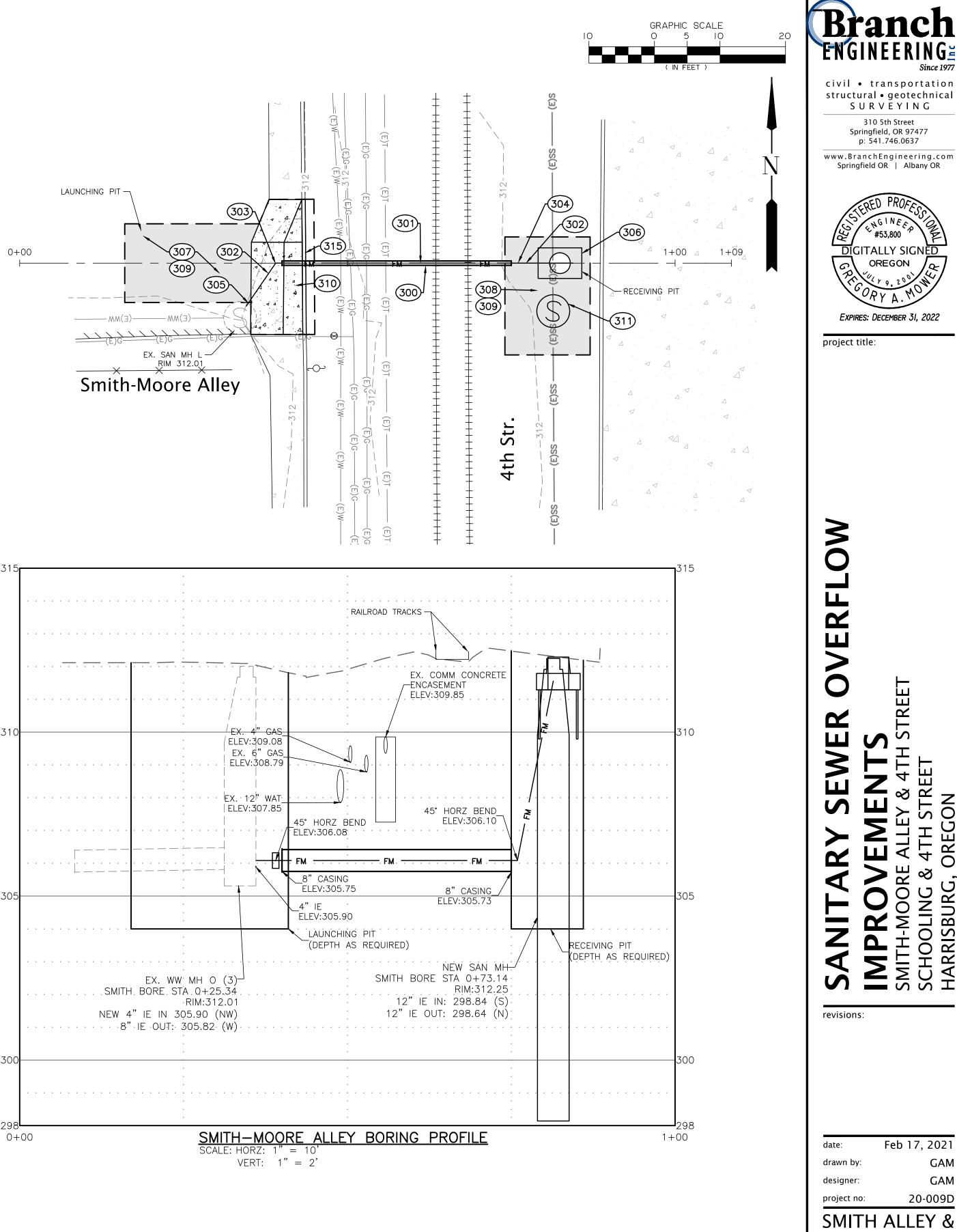
SANITARY SEWER MANHOLE OVER EXISTING 12" SANITARY SEWER

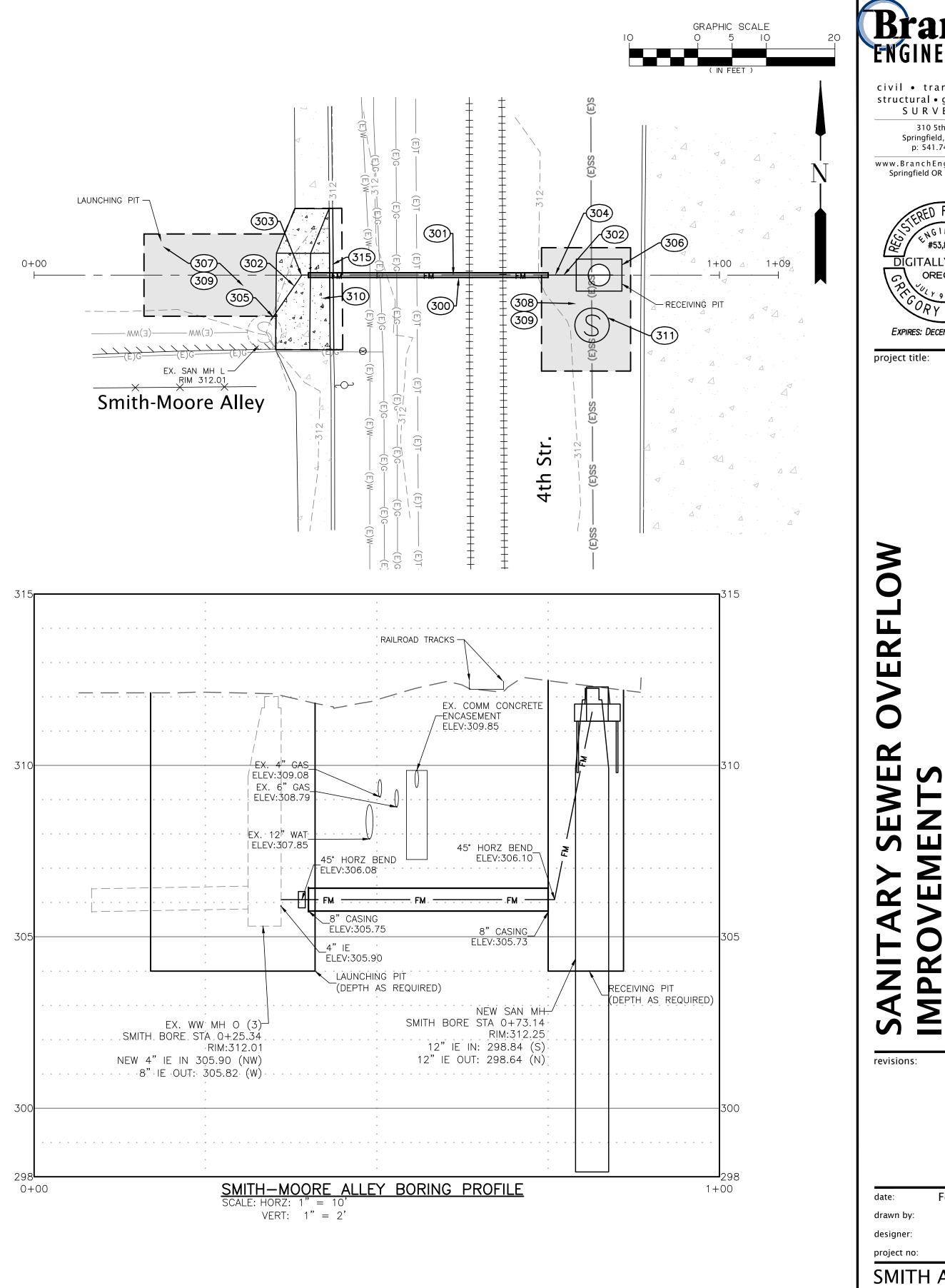
JTTER PER ODOT STANDARD DRAWING RD700.



LABORATORY OR COMPANY. ROCK SHALL BE PROOF NTRACTOR. BASEROCK JRS OF) PAVING, AND SHALL BE AGENCY. LOCATION AND IVE OR APPROVING AGENCY.

CY. THE CONTRACTOR SHALL SEWER PRESSURE TESTS, OR





EXPIRES: DECEMBER 31, 2022 ĹШ ш 2 S — LEY & 4 4TH STREE OREGON Š IMPROV SMITH-MOORI SCHOOLING & HARRISBURG, Feb 17, 2021 GAM

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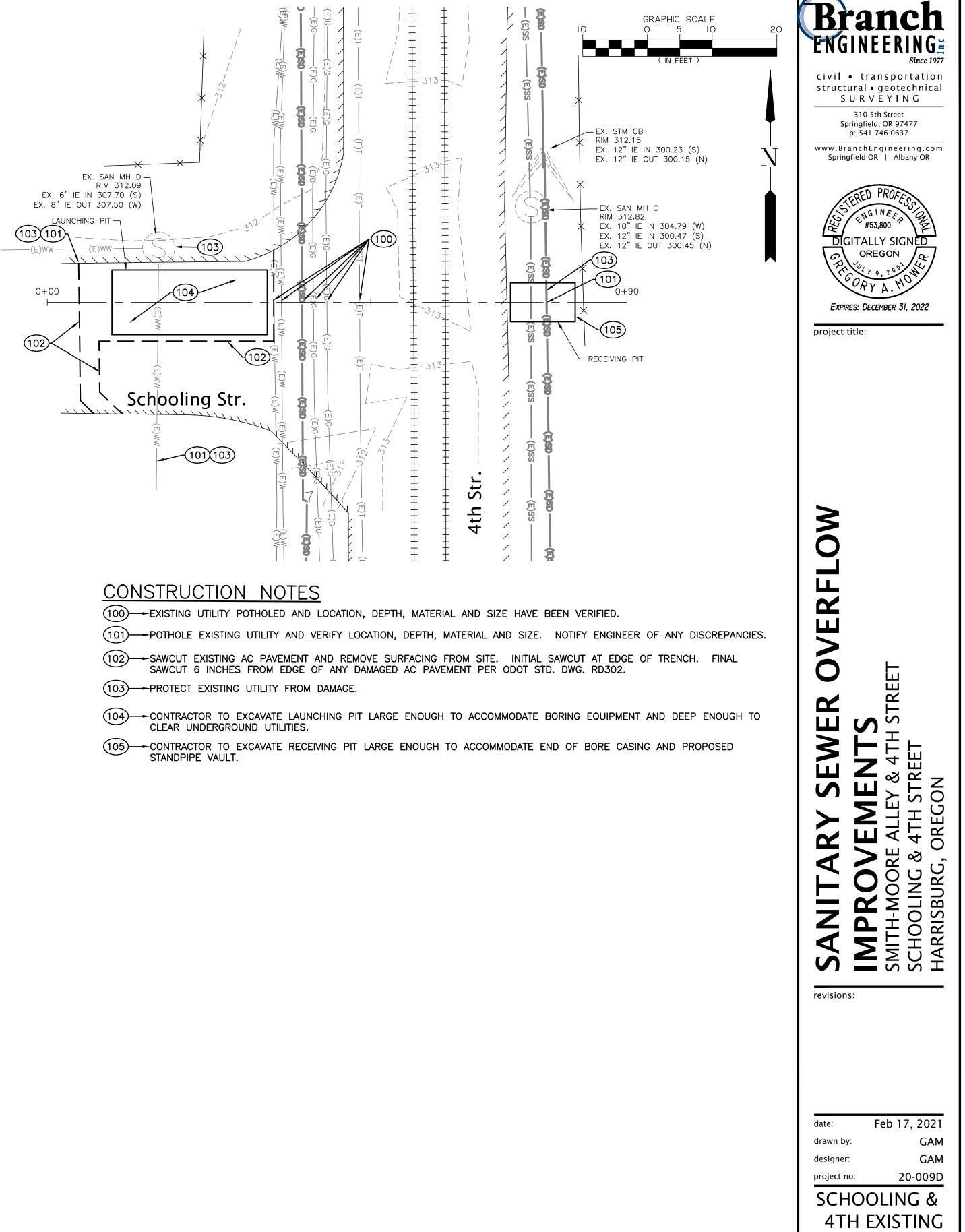
4TH BORING

PLAN & PROFILE

GAM

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CONDITIONS &

sheet:

DEMOLITION

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### CONSTRUCTION NOTES

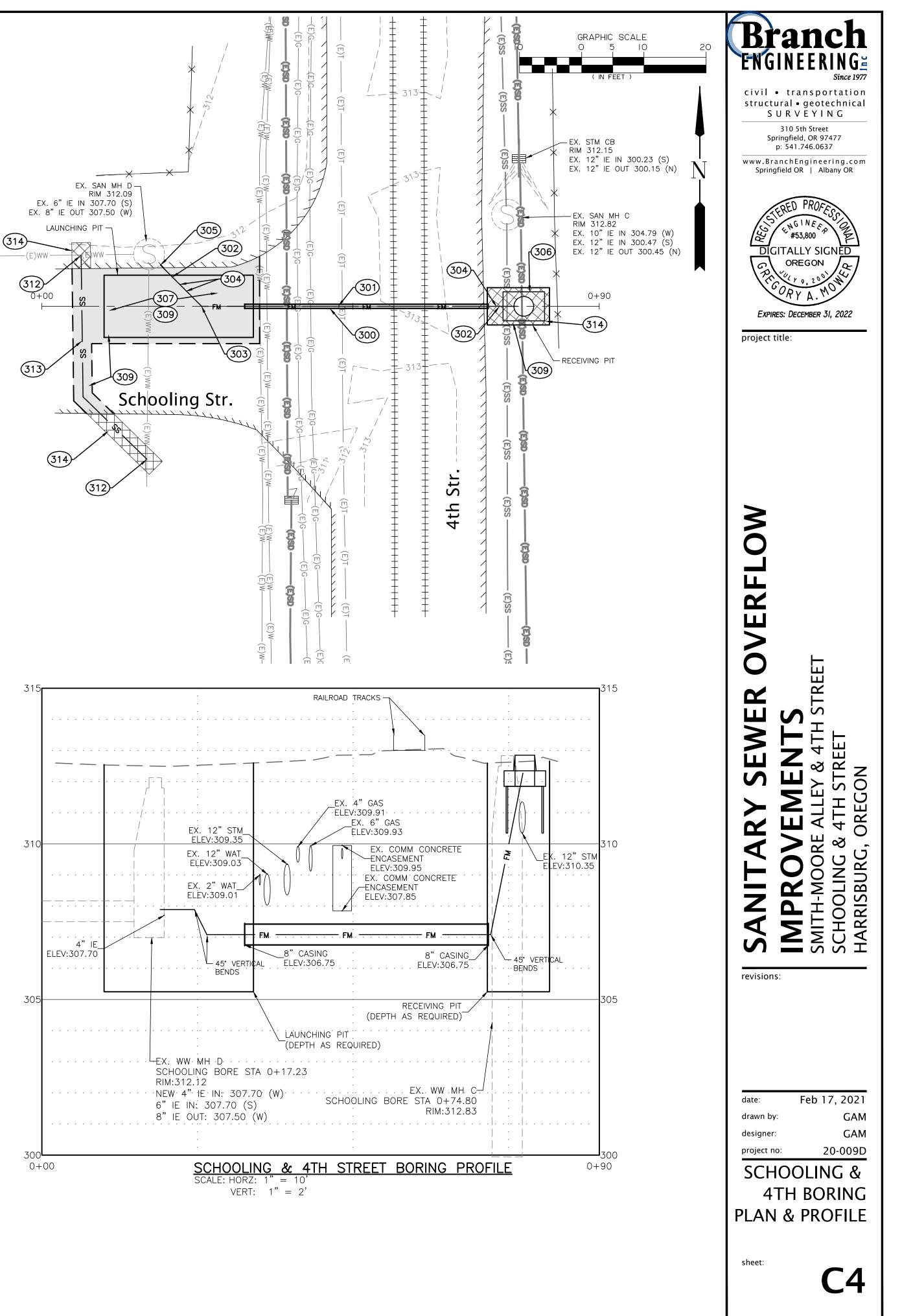
(300) - CONTRACTOR TO FURNISH AND INSTALL 40' OF 8" STEEL CASING. SEE PROFILE FOR ELEVATIONS AND SLOPE. SEE ODOT STANDARD DRAWING RD308 AND SECTION 406 OF THE 2021 ODOT CONSTRUCTION SPECIFICATIONS.

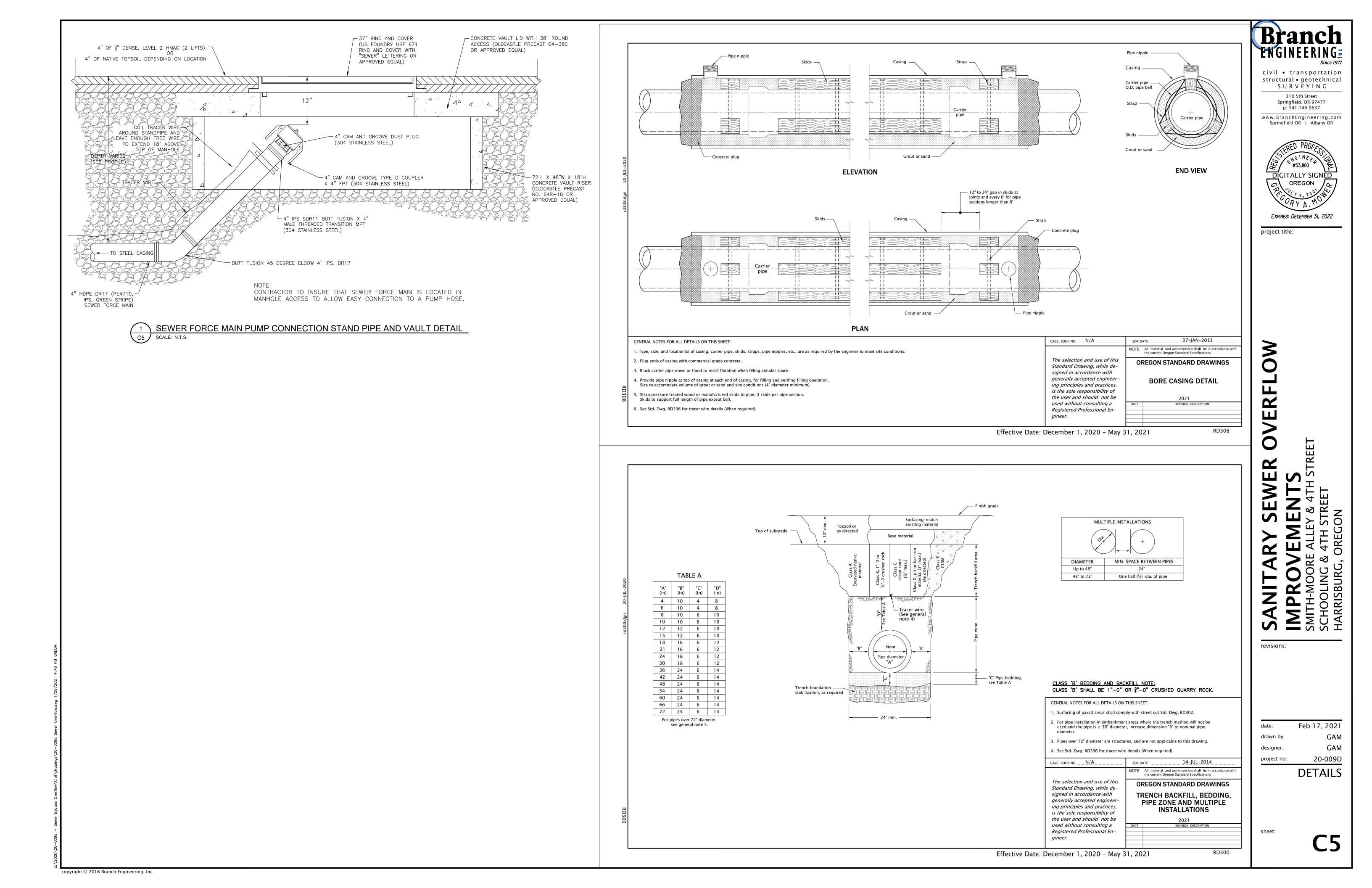
- (301) -- CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR 17 SEWER FORCE MAIN (PE4710, IPS, GREEN STRIPE) IN STEEL CASING WITH APPROPRIATELY SIZED SPACERS. SEE ODOT STANDARD DRAWING RD308 AND SECTION 406 OF THE 2021 ODOT CONSTRUCTION SPECIFICATIONS.
- (302) CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR 17 SEWER FORCE MAIN (PE4710, IPS, GREEN STRIPE) WITH CLASS 'B' BEDDING AND BACKFILL PER ODOT STANDARD DRAWING RD300. 36" MINIMUM OF COVER.
- (303) CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR 17, 45 DEGREE HORIZONTAL BEND (BUTT FUSED) TO FOLLOW SEWER FORCE MAIN ALIGNMENT WITH CLASS 'B' BEDDING AND BACKFILL PER ODOT STANDARD DRAWING RD300.
- (304) CONTRACTOR TO FURNISH AND INSTALL 4" HDPE DR 17, 45 DEGREE VERTICAL BEND (BUTT FUSED) TO FOLLOW SEWER FORCE MAIN ALIGNMENT WITH CLASS 'B' BEDDING AND BACKFILL PER ODOT STANDARD DRAWING RD300.
- (305) CONTRACTOR TO CONNECT TO EXISTING SANITARY SEWER MANHOLE BY CORE DRILLING EX. MANHOLE AND GROUTING 4" PIPE IN PLACE USING NON-SHRINK GROUT.
- (306) -- CONTRACTOR TO FURNISH AND INSTALL SEWER FORCE MAIN PUMP CONNECTION STAND PIPE AND VAULT PER DETAIL 1, SHEET C5.
- (307) CONTRACTOR TO BACKFILL LAUNCHING PIT WITH 3/4"-0" CRUSHED QUARRY ROCK COMPACTED TO 95% RELATIVE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. COMPACT IN 12' LIFTS.
- (308) CONTRACTOR TO BACKFILL RECEIVING PIT WITH 3/4"-0" CRUSHED QUARRY ROCK COMPACTED TO 95% RELATIVE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. COMPACT IN 12" LIFTS.
- (309) CONTRACTOR TO FURNISH AND INSTALL 4" THICKNESS OF 1/2" DENSE, LEVEL 2 HMAC. FOLLOW THE 2021 OREGON
- STANDARD SPECIFICATIONS FOR CONSTRUCTION. (312) - Contractor to connect to existing sanitary sewer line using appropriate couplings and fitting.
- (313) CONTRACTOR TO FURNISH AND INSTALL 4" SANITARY SEWER LATERAL (PVC D3034) WITH CLASS 'B' BEDDING AND BACKFILL PER ODOT STANDARD DRAWING RD300. BACKFILL RECEIVING PIT WITH 3/4"-0" CRUSHED QUARRY ROCK COMPACTED TO 95% RELATIVE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- (314) -- CONTRACTOR TO RESTORE DISTURBED AREA TO PRE-CONSTRUCTION CONDITION OR BETTER. COORDINATE WITH PROPERTY OWNER.

STEEL PIPE CASING NOTE: STEEL PIPE CASING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM GRADE 2 WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI BEFORE COLD FORMING. CASING THICKNESS SHALL BE A MINIMUM OF 0.25 INCHES. ACTUAL CASING THICKNESS SHALL BE DETERMINED BY THE CASING INSTALLER BASED ON AN EVALUATION OF THE REQUIRED JACKING FORCES. ANY BUCKLING OF THE CASING DUE TO JACKING FORCES SHALL BE REPAIRED AT NO COST TO THE CITY.

CLASS 'B' BEDDING AND BACKFILL NOTE:

CLASS 'B' SHALL BE 1"-0" OR  $\frac{3}{4}$ "-0" CRUSHED QUARRY ROCK.





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