Fax 541.466.5118 • TT/TDD 800.735.2900

February 1st, 2024

River's Edge Homeowner's Association

RE: River's Edge Subdivision/PUD Details

Dear Resident,

The City would like to share some background information so that everyone who resides in the River's Edge subdivision is aware of the Homeowners Association's and the City's present and future responsibilities.

The City's Planning Commission granted developer Stephan Smith his proposed Planned Unit Development (PUD) in 2017. The Commission and Smith negotiated several key points that ultimately allowed Mr. Smith to develop his property with the housing density he sought. Cities, under Oregon law, are allowed to make certain concessions and modifications to zoning requirements based on this specific procedure in certain zones of a city. Several public meetings were conducted during this process and City Staff had countless meetings over the last several years to assist in bringing the subdivision to fruition.

Below I have listed the approval details for the PUD as well as answers to the questions we discussed:

Open Space

- ★ Developer Stephan Smith was required to improve several areas for private recreational and parking purposes.
- ★ City Staff was charged with the responsibility to ensure the completion of these areas met the Conditions of Approval before they were turned over to the Association for perpetual care.
- ★ On November 1st, 2023, the City has given final approval for these improvements and is awaiting a warranty assurance letter for the work recently completed by Rexius.
- ★ The parking areas at the south & north end of the open space area are under the operational & maintenance responsibility of the Association.
- ★ The parking area located along River Street is under the operational & maintenance responsibility of the Association.

Drainage

★ Developer Stephan Smith raised the subdivision out of the floodplain at great expense.

- ★ The Association is responsible for the perpetual maintenance of all drainage ponds, swales, and ditches in the subdivision.
- ★ The City is responsible for all underground, stormwater pipes emptying into the drainage ponds, except for the pipes carrying runoff from the three drainage basins to the drainage ponds.

Streets

- ★ The streets have been installed to the City's Public Works Standards and are the perpetual responsibility of the City of Brownsville.
- ★ The streetlights were procured by Developer Stephan Smith and installed by Pacific Power under contract with the City. The City is responsible for the perpetual maintenance and monthly expense of the streetlights.
- ★ Existing street signs and any original traffic painting are the perpetual responsibility of the City.

Civil Utilities

- ★ Waterlines, hydrants, and associated appurtenances have been installed to the City's Public Works Standards and are the perpetual responsibility of the City of Brownsville.
- ★ Sewer collection lines and associated appurtenances have been installed to the City's Public Works Standards and are the perpetual responsibility of the City of Brownsville.

Frequently Asked Questions

★ Is the City willing to paint the curbs red throughout the fire zones and yellow in other areas?

The City accepted the plans as presented for approval. Those plans did not include curb paint and were accepted as such. The City is solely responsible for making any future determination on curb or street painting. It is not the City's policy to deviate from approved plans.

★ What can be done about illegal parking by fire hydrants and in fire lane areas?

The City contracts with the Linn County Sheriff's Department for law enforcement services. Contact City Administrator Scott McDowell to address any parking related issues. Any law enforcement issues should be addressed directly with the Linn Couty Sheriff's Office. Of course, 911 for emergency calls and 541.967.3911 for non-emergency calls.

★ Does the City enforce the Association's covenants & restrictions?

The City does not enforce any covenants, restrictions or otherwise associated with Association rules or deed restrictions. Such enforcement is the sole responsibility of the Association.

The City does enforce permitting issues and general nuisance complaints that fall under the general requirements of the Brownsville Municipal Code. The Brownsville Municipal Code can be found on the City's website which is www.ci.brownsville.or.us. The City is to have you as resident of Brownsville!

Sincerely,

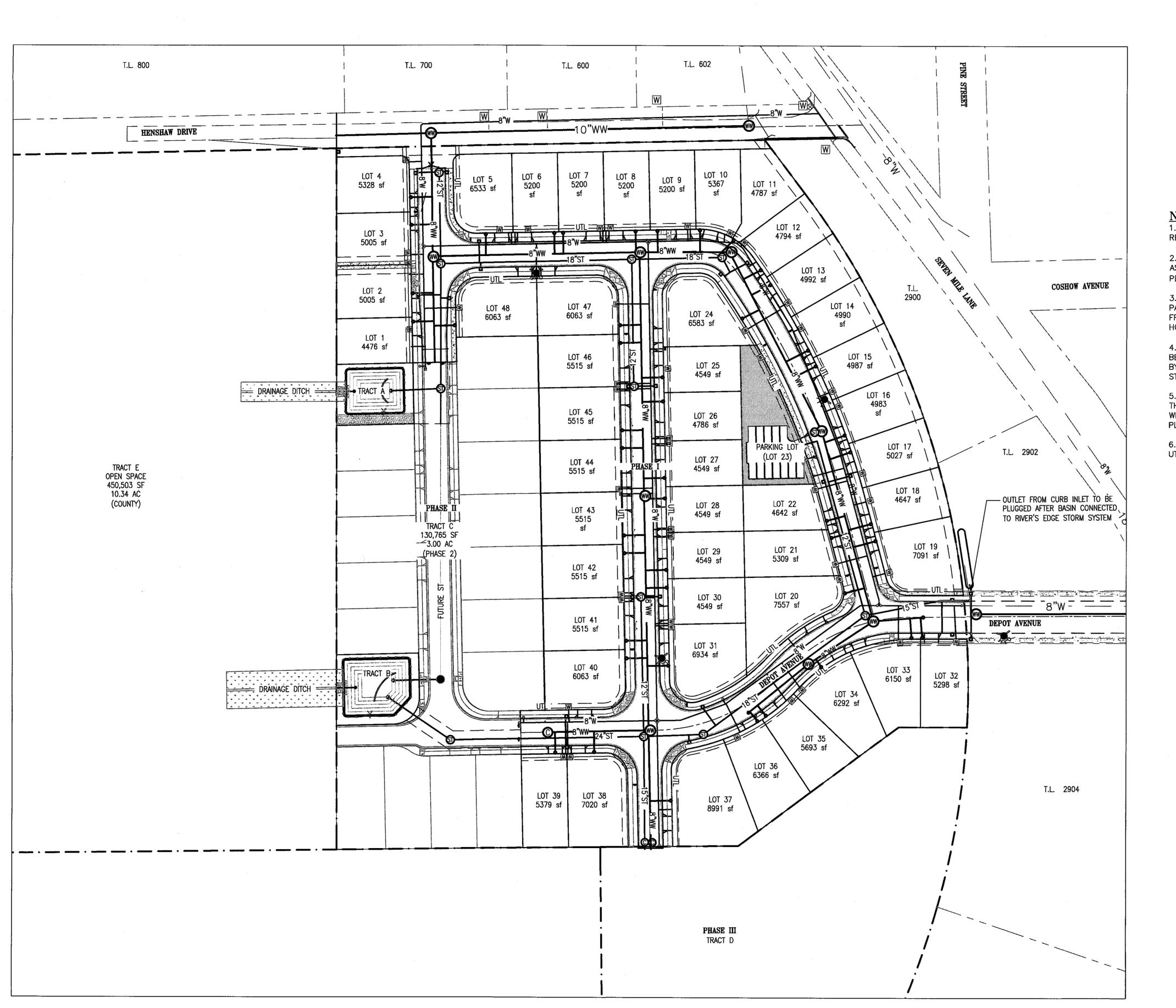
S. Scott McDowell City Administrator

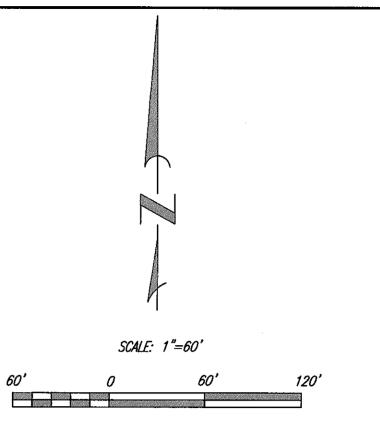
c: City Council

Planning Commission

Karl Frink, Public Works Superintendent Elizabeth Coleman, Administrative Assistant

Staff





1. FOR STREET TREE, LIGHTING, AND SIGNAGE PLAN REFER TO SHEET C-8.0.

- 2. FRANCHISE UTILITY LINES TO RUN WITHIN 7.00' P.U.E. AS SHOWN ON PLAN. UTILITIES TO BE JOINT TRENCHED PER UTILITY PROVIDER'S STANDARDS.
- 3. ADA RAMPS AND LANDINGS TO BE CONSTRUCTED AS PART OF THE PEPI CONSTRUCTION PHASE. SIDEWALKS FRONTING LOTS TO BE CONSTRUCTED DURING INDIVIDUAL HOME CONSTRUCTION BY HOME BUILDER.
- 4. WHERE LESS THAN 6" OF VERTICAL CLEARANCE EXISTS BETWEEN PIPES, THE LOWER PIPE SHALL BE PROTECTED BY A CONCRETE COLLAR PER CITY OF BROWNSVILLE STANDARDS.
- 5. STORM RUNOFF FROM HOME ROOFS TO BE ROUTED THROUGH WEEPHOLES IN CURB. CONTRACTOR TO VERIFY WEEPHOLE LOCATIONS WITH HOME BUILDER PRIOR TO PLACEMENT.

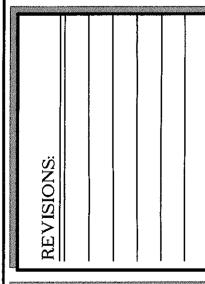
6. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY PROVIDERS FOR FINAL INSTALLATION.





divisionPlan Utility

qnrehensive EdgRiv



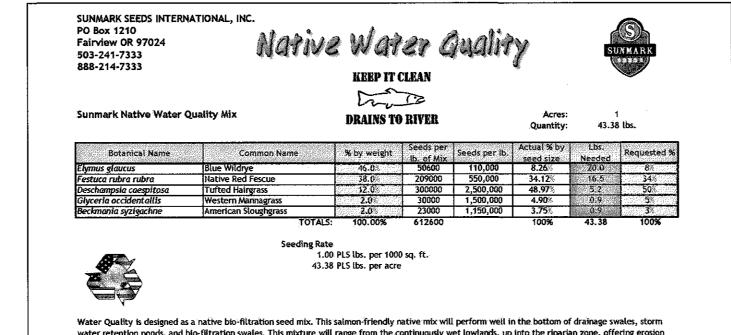
SHEET 25

ASSESSORS MAP: 13S-03W-36-00 T.L. 900

GRADING NOTES:

- 1. ALL HOUSE FINISH FLOOR ELEVATIONS SHALL BE A MINIMUM 1.00' FEET ABOVE BASE FLOODPLAIN ELEVATION.
- 2. COMPACTION OF MATERIAL IN STRUCTURAL AREAS TO BE DOCUMENTED AND CERTIFIED BY A GEOTECHNICAL PROFESSIONAL.
- 3. ALL EROSION MEASURES OUTLINED IN APPROVED DEQ 1200C PERMIT SHALL BE INSTALLED PRIOR TO SITE GRADING.
- 4. STRIPPINGS SHALL BE SPREAD ONSITE
- IN NON-STRUCTURAL AREAS.
- 5. CONTRACTOR SHALL ENSURE A MINIMUM SLOPE OF 0.50% FROM POND OVERFLOW WEIRS TO EXISTING PONDS TO WEST IS PRESENT TO ALLOW FOR OVERLAND DISCHARGE.
- 6. GRADES ARE SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PROFILE SHEETS FOR CONSTRUCTION.

7. ALL LOTS TO HAVE POSITIVE GRADE TOWARD STREET FRONTAGE.



	vations in units of feet on NAVD88 datum Design Top Face Base Flood Minimum Building Pad Minimum Home FFE				
Lot#	of Curb	Elevation	Elevation	(BFE + 1')	Estimated Home FFE
1 .	329.46	329.23	329.21	330.23	331.71
2	329.08	329.21	328.83	330.21	331.33
3	328.55	329.18	328.30	330.18	330.80
4	328.00	329.17	327.75	330.17	330.25
5	329.05	329.29	328.80	330.29	331.30
6	329.39	329.32	329.14	330.32	331.64
7	329.64	329.38	329.39	330.38	331.89
8	329.66	329,43	329.41	330.43	331.91
9	329.44	329.46	329.19	330.46	331.69
10	329.16	329.51	328.91	330.51	331.41
11	329.10	329.58	328.85	330.58	331.35
12	329.10	329.58	328.85	330.58	331.35
13	329.25	329.65	329.00	330.65	331.50
14	329.50	329.69	329.25	330.69	331.75
15	329.75	329.75	329.50	330.75	332.00
16	329.97	329.80	329.72	330.80	332.22
17	329.80	329.86	329.55	330.86	332.05
18	329.80	329.90	329.55	330.90	332.05
19	330.05	329.98	329.80	330.98	332.30
20	330.15	329.88	329.90	330.88	332.40
21	330.10	329.84	329.85	330.84	332.35
22	329.80	329.80	329.55	330.80	332.05
23	N/A, to be used for guest parking lot				
24	329.25	329.59	329.00	330.59	331.50
25	329.60	329.61	329.35	330.61	331.85
26	329.75	329,63	329.50	330.63	332.00
27	329.90	329.68	329.65	330.68	332.15
28	329.70	329.71	329.45	330.71	331.95
29	329.50	329.76	329.25	330.76	331.75
30	329.60	329.80	329.35	330.80	331.85
31	329.90	329.84	329.65	330.84	332.15
32	329,60	330,20	329.35	331.20	331.85
33	330.25	330.10	330.00	331.10	332.50
34	331.10	330.10	330.85	331.10	333.35
35	331.10	330.10	330.85	331.10	333.35
36	330.80	330.10	330.55	331.10	333.05
37	330.70	330.10	330.45	331.10	332.95
38	330,60	329.90	330.35	330.90	332.85
39	330.50	329.90	330.25	330.90	332.75
40	330.50	329.84	330.25	330.84	332.75

329.75

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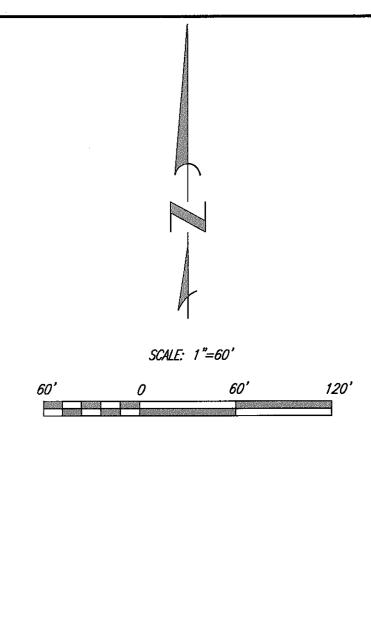
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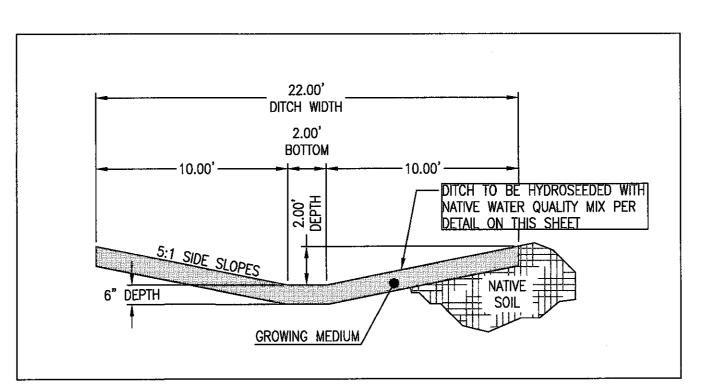
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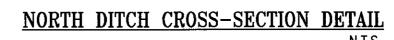
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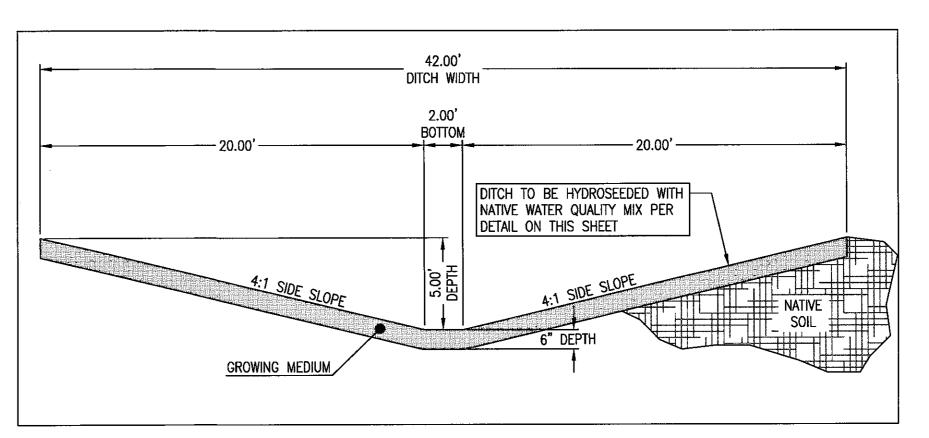
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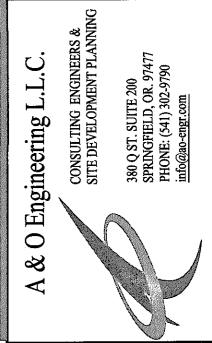
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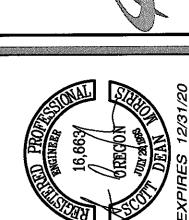
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SOUTH DITCH CROSS-SECTION DETAIL



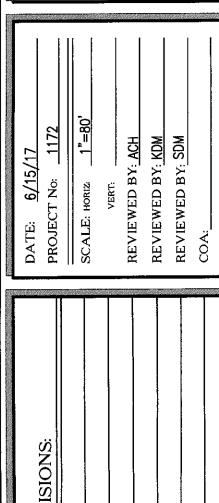


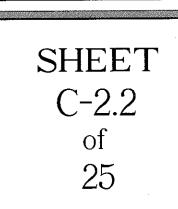
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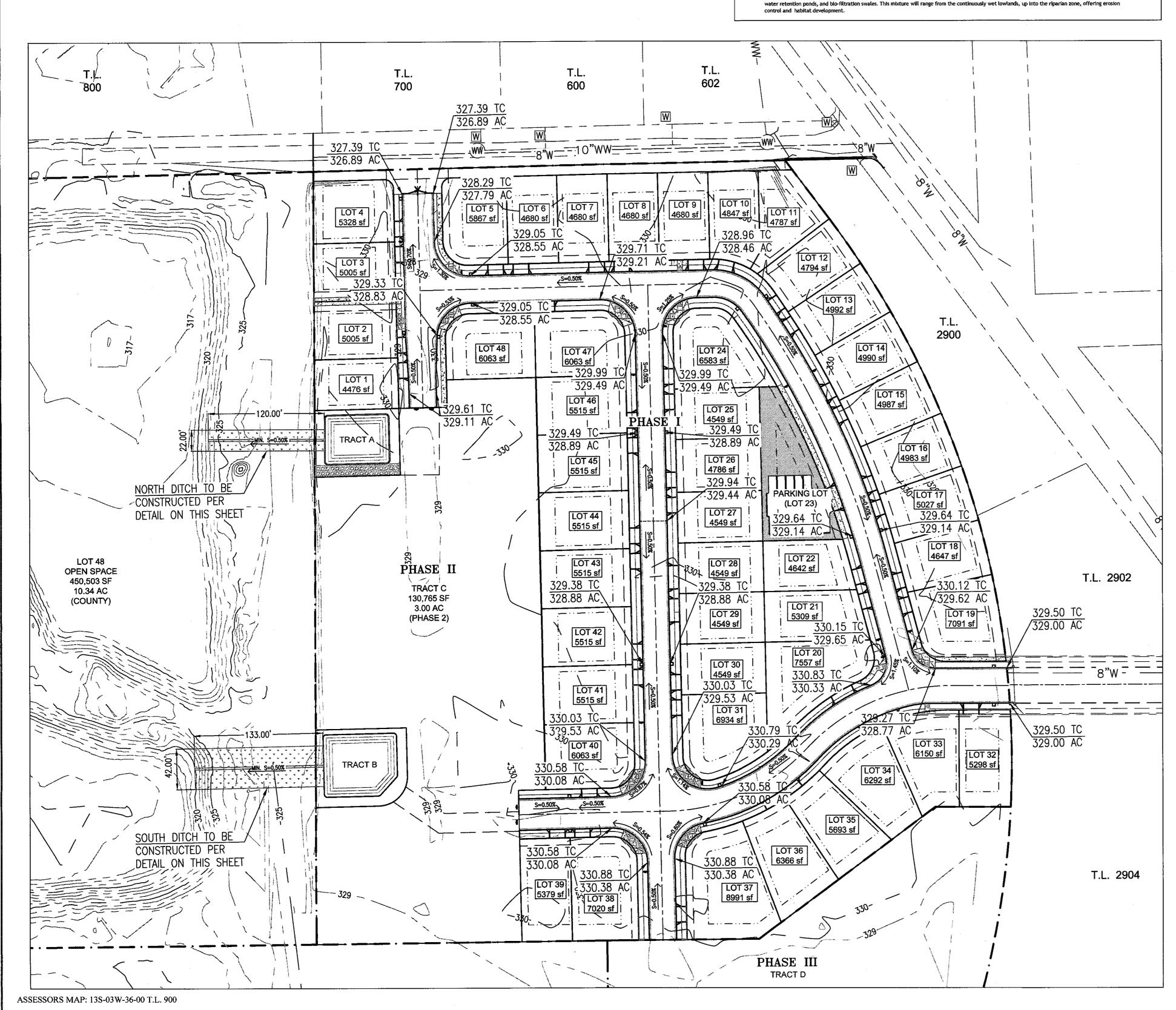
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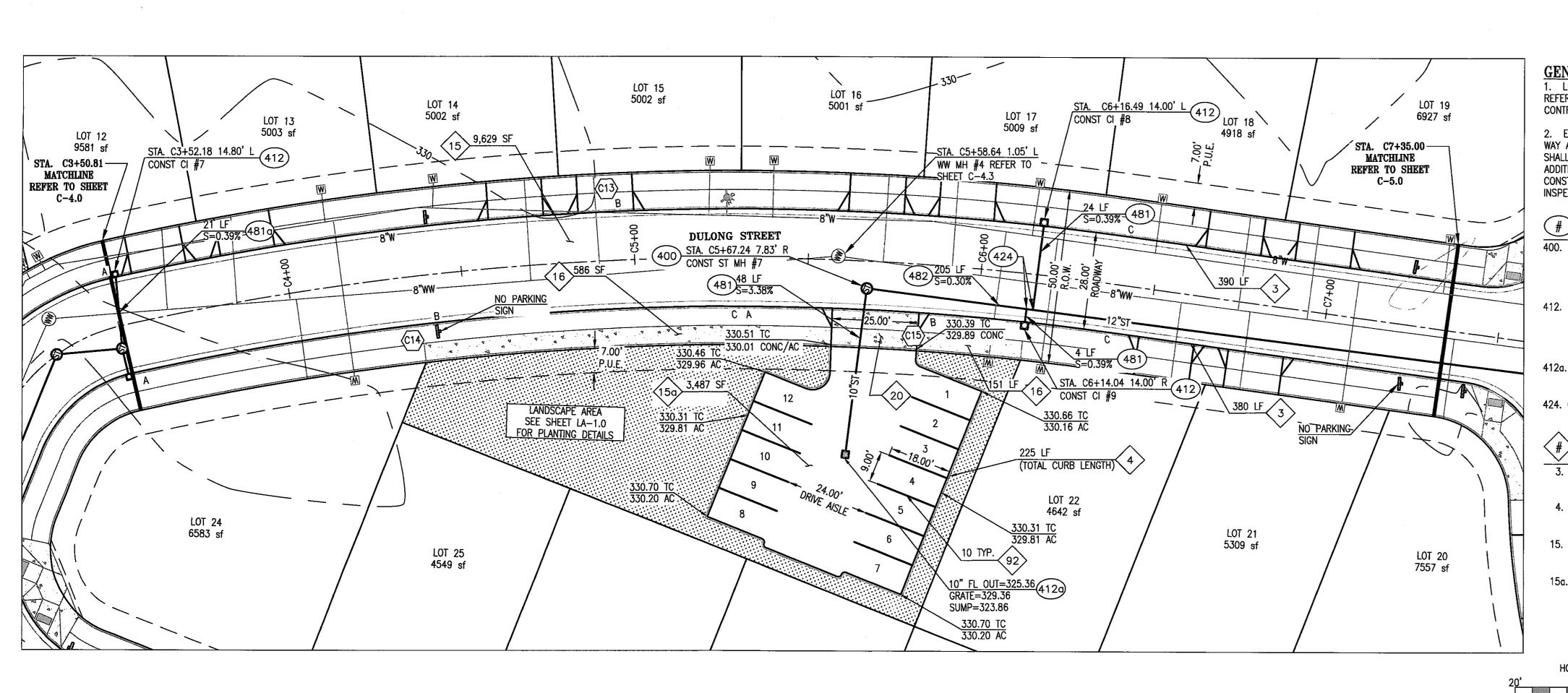
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Grading





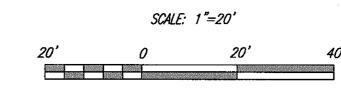




GENERAL NOTES:

1. LENGTHS, AREAS, AND QUANTITIES SHOWN ARE FOR REFERENCE ONLY AND NOT INTENDED FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES.

2. EROSION CONTROL MEASURES WITHIN THE RIGHT OF WAY AND OUTLINED IN THE APPROVED DEQ 1200C PERMIT SHALL REMAIN IN EFFECT UNTIL PROJECT COMPLETION. ADDITIONAL EROSION MEASURES SHALL BE ADDED DURING CONSTRUCTION AS DIRECTED BY CESCL CERTIFIED INSPECTOR.



ST CONSTRUCTION NOTES

400. CONST STD. MANHOLE WITH BOLT DOWN LID AND STAINLESS STEEL BOLTS WITH NICKEL ANTI-SEIZE LUBRICANT PER CITY OF BROWNSVILLE DWG SS118 & SS129. SEE SHEET C-7.0.

- 412. CONST CURB-INLET WITH BOLT DOWN LID AND STAINLESS STEEL BOLTS WITH NICKEL ANTI-SEIZE LUBRICANT PER CITY OF BROWNSVILLE STD DWG SS101 & SS129. REFER TO SHEET C-7.0.
- 412a. CONST 24" CATCH BASIN PER DETAIL. REFER TO SHEET C-7.1.
- 424. CONST 12"X12"X10" PVC SDR 35 TEE WITH GASKET
- 481. CONST 10" STORM DRAIN PIPE, PVC D3034 W/ RUBBER GASKET JOINTS AND TRACER WIRE.
- 481a. CONST 10" STORM DRAIN PIPE, PVC C900 W/ RUBBER GASKET JOINTS AND TONE WIRE.
- 482. CONST 12" STORM DRAIN PIPE, PVC D3034 W/ RUBBER GASKET JOINTS AND TRACER WIRE
- 483. CONST 15" STORM DRAIN PIPE, PVC D3034 W/ RUBBER GASKET JOINTS AND TRACER WIRE.
- 484. CONST 18" STORM DRAIN PIPE, PVC F679 W/ RUBBER GASKET JOINTS AND TRACER WIRE.
- PAVING CONSTRUCTION NOTES DWG ST103. REFER TO SHEET C-7.0.
- 4. CONST EXTRUDED CURB PER DETAIL. REFER TO SHEET
- 15. CONST 3.5" AC OVER 12" CRUSHED ROCK PER DETAIL. SEE SHEET C-7.0.
- 15a. CONST 3" AC OVER 12" CRUSHED ROCK PER DETAIL. SEE SHEET C-7.0.
- 3. CONST CURB AND GUTTER PER CITY OF BROWNSVILLE STD. 16. CONST 4" CONC OVER 2" CRUSHED ROCK, 5.00' WALKWAY.
 - 20. CONST 8" CONCRETE DRIVEWAY APPROACH WITH STANDARD WINGS PER CITY OF BROWNSVILLE STD. DWG ST114. REFER TO SHEET C-7.3.
 - 92. PAINT 4" WIDE STRIPE TRAFFIC WHITE.

	(C13)	△ = 20°3	1'06"	R=	823.93	L=295.0	
		LC=293.47'					
	PT	DELTA	TC ELE	V	DESCR	RIPTION	
	Α	00,00,00	329.19	9	PC		
_	В	10°15'33"	329.07	7	1/2 DE	ELTA	
1	С	20°31'06"	328.95	ō	PT		
	(C14)	△ = 12°4.	3'56"	R=	795.93	L=176.8	
_	(C) 7	LC=176.79	,				
ÉRI	PT	DELTA	TC ELE	٧	DESCR	RIPTION	
^ <u>₹</u>	Α	00'00'00"	329.28	3	PC		
ζ	В	06°24'58"	329.13	3	1/2 DE	LTA	
VERTICAL SCALE:	С	12°43'56"	328.97	7	PT		
ī ¶. →	(C15)	$\triangle = 07^{\circ}46'14"$		R=	795.93'	L=107.9	
<u>,</u> Ω ¹	613	LC=107.86	,				
	PT	DELTA	TC ELE	٧	DESCR	IPTION	
	Α	00°00'00"	329.28	3	PC		
	В	03°53'07"	329.13	3	1/2 DE	LTA	
2	С	07°46'14"	328.97	7	PT		

.94' ____

DRAINAGE CONSTRUCTION 1 TO STA: C7+35.00

SHEET C-4.2

ROADWAY
DULONG STREE

HORIZONTAL SCALE: 1"=20' — TC L=(+)0.50% -___ TC L=(-)0.50% -TC L=(+)0.50%— TC R=(+)0.50% ⁻TC R=(+)0.53%Ţ STA. C5+30.59 14.00'R PT C14 TC R=329.89 STA. C5+30.80 14.00'R PC C15 TC R=329.66 EXISTING GROUND | STA. C6+14.04 TC R=329.66 STA. C6+16.49 TC L=329.64 335 FEMA 100 YR FLOOD PLAIN LINE PROPOSED TC EXISTING GROUND Q EXISTING GROUND R 330 _8" PVC WW PIPE 8" PVC H2O PIPE REFER TO SHEET C-4.3 REFER TO SHEET C-4.3 325 12" PVC ST PIPE 205 LF @ 0.30% -8" PVC WW PIPE - REFER TO SHEET-320 C-4.3 STA. C5+67.24 7.83' | CONST ST MH #7 | 10" FL IN (SW)=323.74 | 12" FL OUT (SE)=323.5 - RIM ELEV.=329.71 C5+58.64 1.05'
MH #4 REFER TO
EET C-4.3 STA. C3+52.18 14 CONST CI #7 10" FL OUT (SW)=; RIM ELEV.=328.94 SUMP=324.28 315 310 305 (CLASS "B" BACKFILL) ___ 300 C3+40 C3+60 C3+80 C4+00 C4+20 C4 + 40C4 + 60C4+80 C5+00 C5+20 C5+40 C5+60 C5+80 C6+00 C6+20 C6+40 C6+60 C6+80 C7+00 C7+20 C7+40 C7+80 C8+00

ASSESSORS MAP: 13S-03W-36-00 T.L. 900

Street

Dulong

Profile

Plan and

35.00 vision

B7+353'udivis

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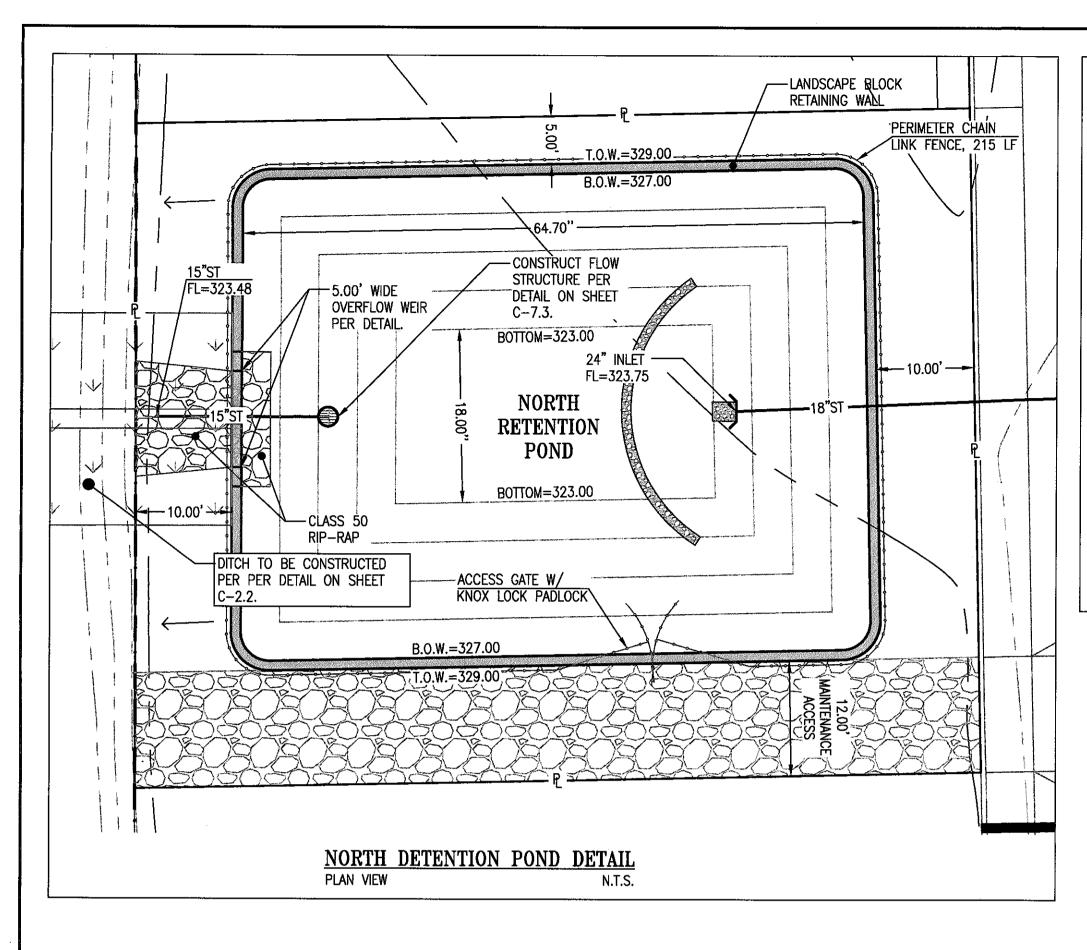
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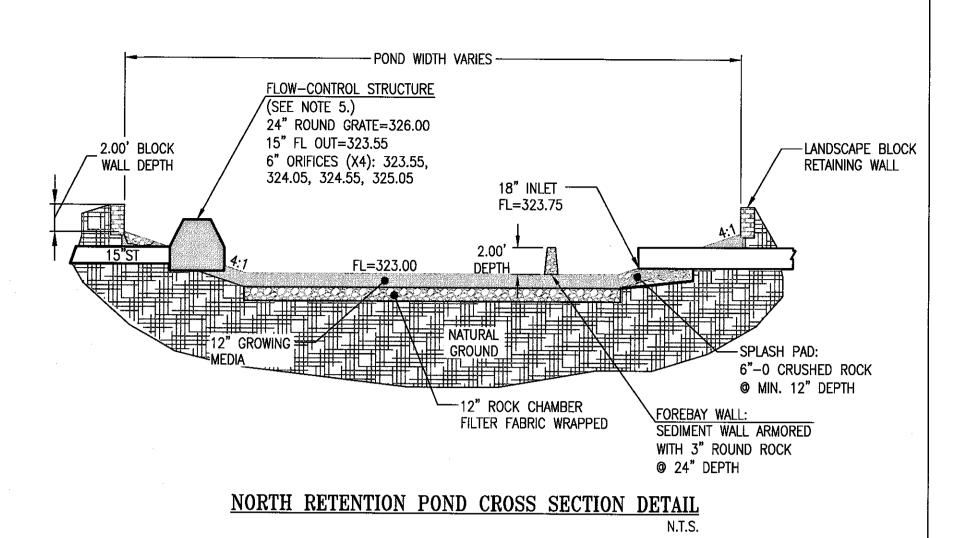
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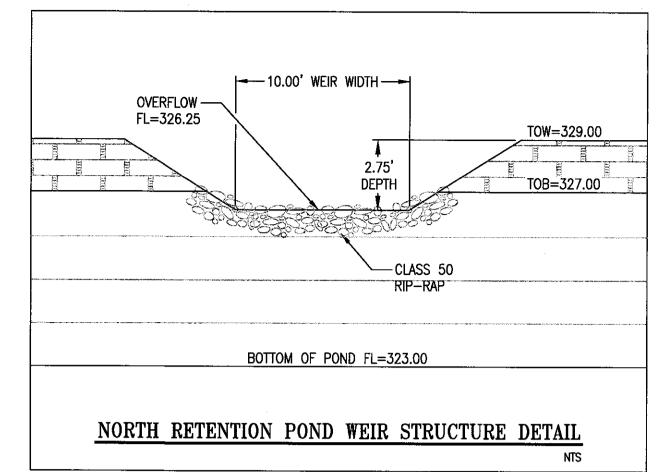
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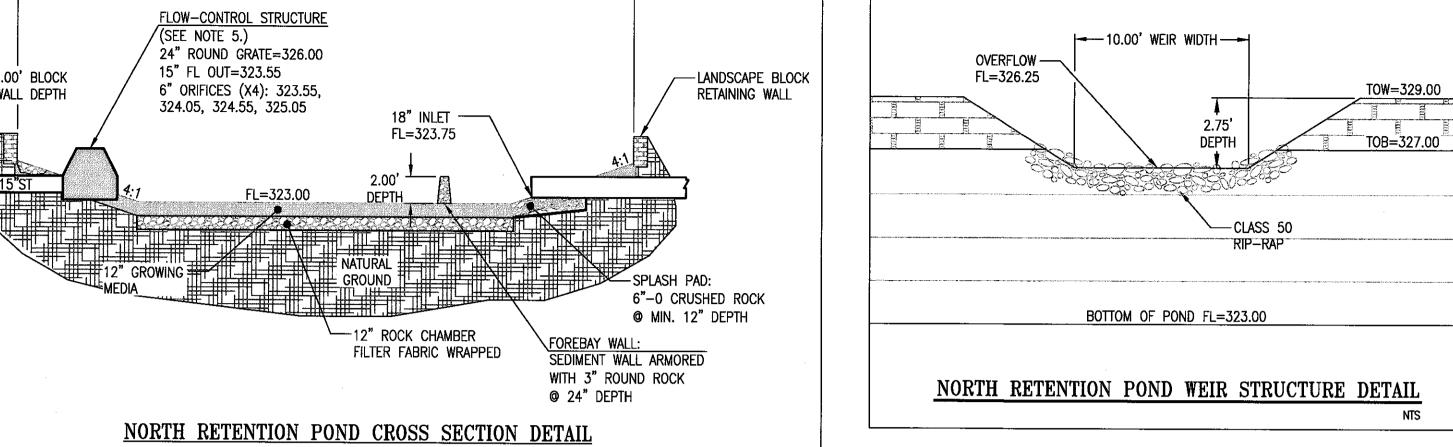
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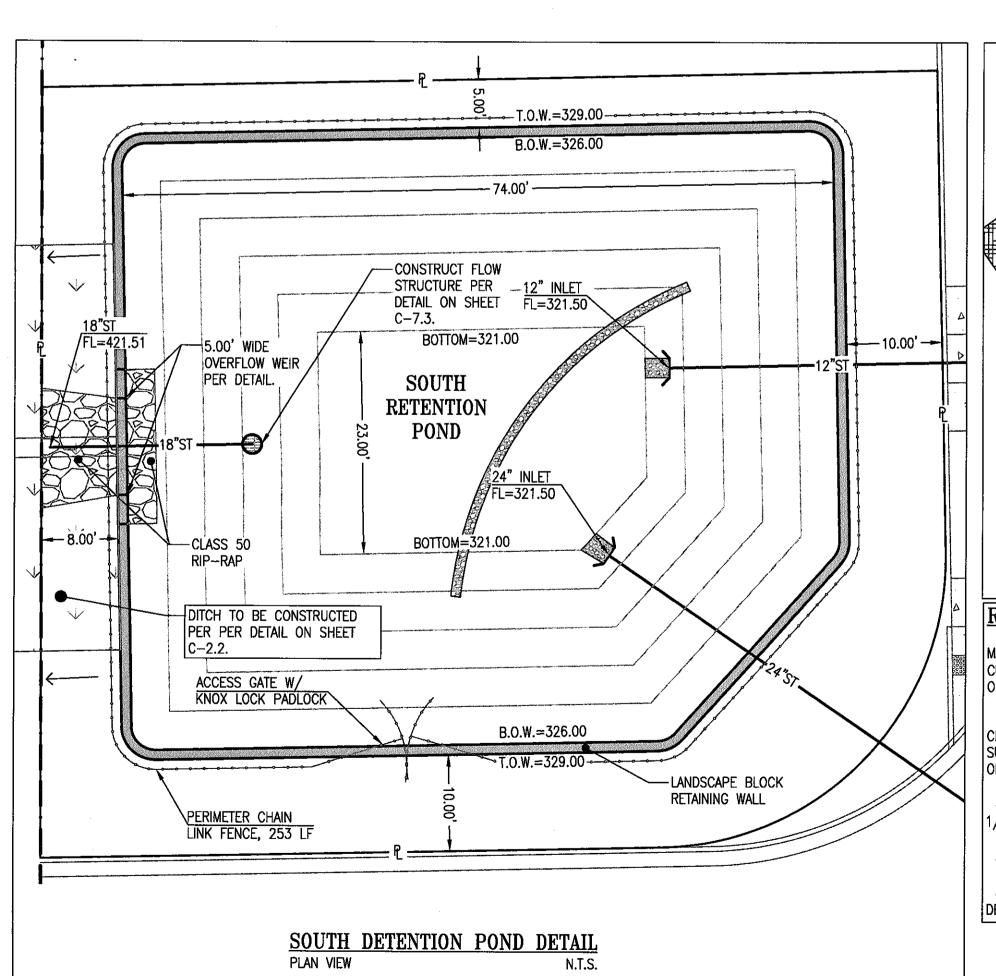
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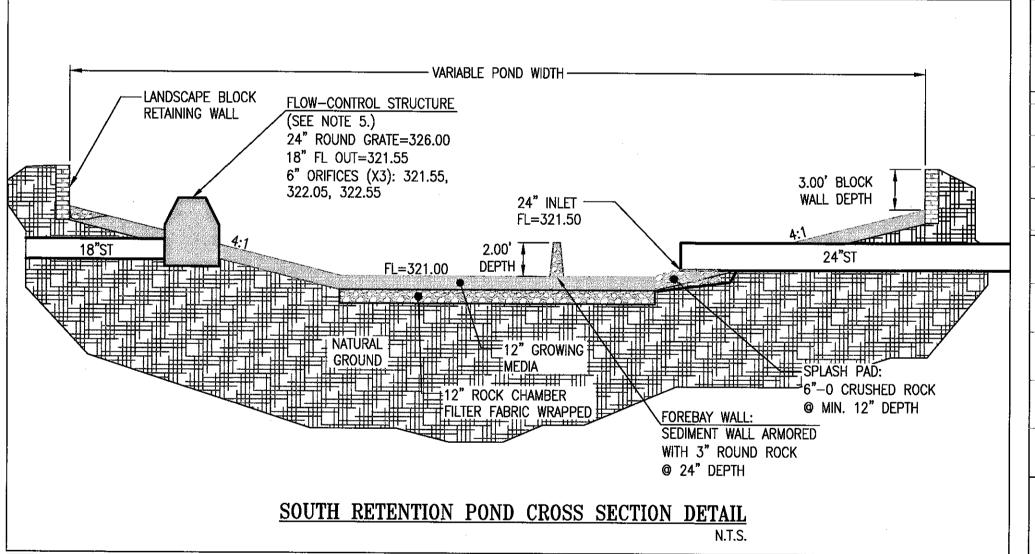


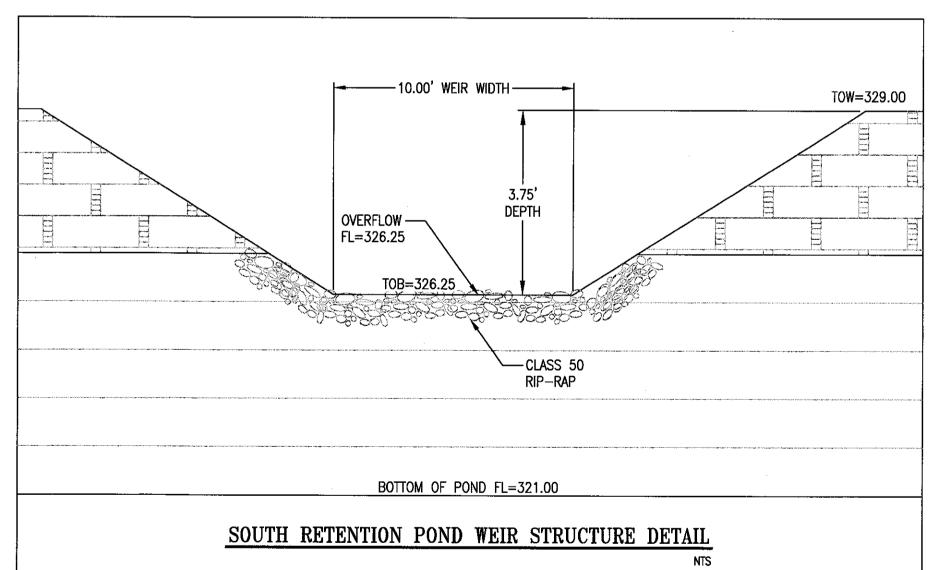


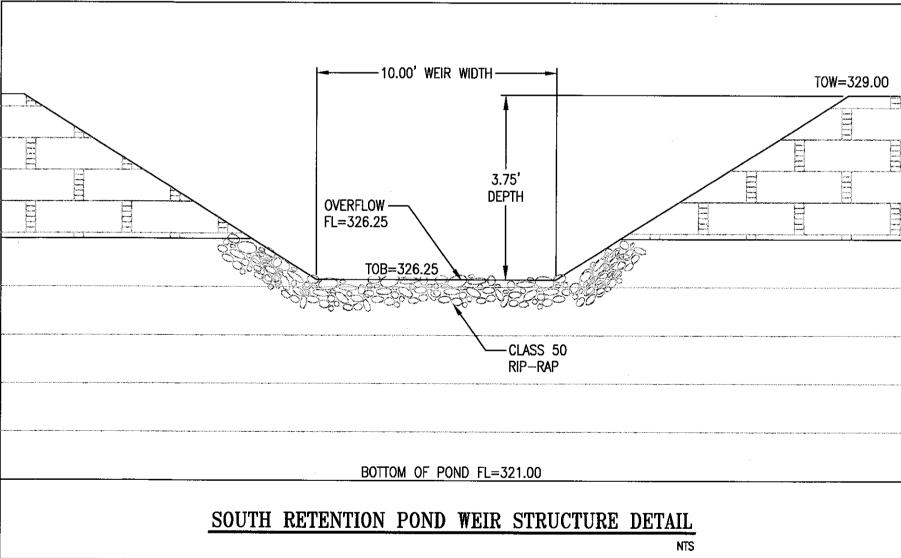


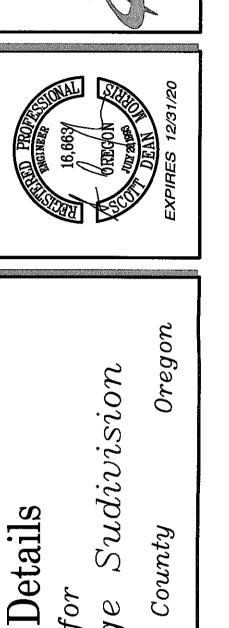






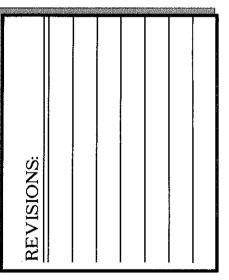






Engineering]

Riv



SHEET C-7.2

RETENTION POND NOTES: 1. BLOCK RETAINING WALL SHALL BE INTERLOCKING AND BE RATED BY MANUFACTURE TO A MINIMUM HEIGHT OF 3.00'. CONTRACTOR SHALL SUBMIT CUT SHEETS OF PROPOSED BLOCKS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.

RETENTION POND NOTES:

DETAIL SS118 W/ 24" ROUND SLOTTED GRATE.

ORDERING.

ORDERING.

1. BLOCK RETAINING WALL SHALL BE INTERLOCKING AND BE RATED BY MANUFACTURE TO A MINIMUM HEIGHT OF 3.00'. CONTRACTOR SHALL SUBMIT CUT SHEETS OF PROPOSED BLOCKS TO ENGINEER FOR APPROVAL PRIOR TO

2. GROWING MEDIA SHALL BE IMPORTED TOPSOIL WITH HIGH INFILTRATION

CHARACTERISTICS AND ALLOW FOR GRASS SEED TO GROW. CONTRACTOR SHALL SUBMIT CUT SHEET OF MEDIA SOIL TO ENGINEER FOR APPROVAL PRIOR TO

3. PONDS SHALL BE HYDROSEEDED WITH A MIXTURE OF 1/3 PERENNIAL RYE,

4. ROCK CHAMBER SHALL BE FILLED WITH $\frac{1}{2}$ "-2 $\frac{1}{2}$ " CLEAN ROCK UNCOMPACTED.

5. FLOW-CONTROL STRUCTURE TO BE STANDARD CONCRETE MANHOLE PER CITY

1/3 PATRIOT II PERENNIAL RYE AND 1/3 EVENING SHADE PERENNIAL RYE.

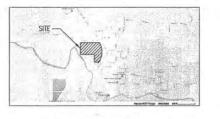
2. GROWING MEDIA SHALL BE IMPORTED TOPSOIL WITH HIGH INFILTRATION CHARACTERISTICS AND ALLOW FOR GRASS SEED TO GROW. CONTRACTOR SHALL SUBMIT CUT SHEET OF MEDIA SOIL TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.

3. PONDS SHALL BE HYDROSEEDED WITH A MIXTURE OF 1/3 PERENNIAL RYE, 1/3 PATRIOT II PERENNIAL RYE AND 1/3 EVENING SHADE PERENNIAL RYE.

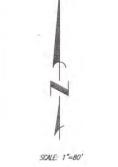
4. ROCK CHAMBER SHALL BE FILLED WITH 2"-2 2" CLEAN ROCK UNCOMPACTED.

5. FLOW-CONTROL STRUCTURE TO BE STANDARD CONCRETE MANHOLE PER CITY DETAIL SS118 W/ 24" ROUND SLOTTED GRATE.

PEPI PLANS FOR UTILITY PROVIDERS: RIVER'S EDGE SUBDIVISION CONTRACTOR DESIGN ENGINEER OWNER/APPLICANT PLAT SURVEYOR WATER- CITY OF BROWNSVILLE SEWER- CITY OF BROWNSVILLE MID-VALLEY GRAVEL COMPANY 705 CLEMENS MILL ROAD PHILOMATH, OREGON 97570 PROGRESSIVE DESIGN BUILDERS,INC. P.O. BOX 727 EGR & ASSOCIATES, INC 2535 PRAIRIE RD., STE B EUGENE, OREGON 97402 PHASE 2 CABLE- ALYRICA N.W. 1/4, SEC.31, T.13S. R.2 W, W.M. PHONE- CENTURY LINK
ELECTRICITY- PACIFIC POWER
NATURAL GAS- NORTHWEST NATURAL GAS SPRINGFIELD, OREGON 97477 PHONE: (541) 929-2200 PHONE: (541) 302-9790 ALBANY, OREGON 97321 PHONE: (541) 688-8322 TAX LOT 900 PHONE: (541) 740-2948 BROWNSVILLE, LINN COUNTY, OREGON THE VILLE LOT 26 4786 sf LOT 44 5523 sf EXISTING POND A



VICINITY MAP



-1.0 COVER SHEET -1.1 CONSTRUCTION NOTES 2.0 SITE DEVELOPMENT PLAN

C-4.0 PLAN & PROFILE DEPOT AVENUE C-4.1 PLAN & PROFILE DEPOT AVENUE

C-5.1 CIVIL DETAILS

2-3.0 PLAN & PROFILE HENSHAW EDGE PARK

C-5.0 CIVIL DETAILS

C-5.1 CIVIL DETAILS

SHEET INDEX

-2.1 COMPREHENSIVE UTILITY PLAN -2.2 COMPREHENSIVE GRADING PLAN -3.1 PLAN & PROFILE HENSHAW EDGE PARK

see 2 of Subdivision for Phase s Edge S Cover

neering L.L.C.

A & 0

S River'

Oregon

County

DIE WEND REVIE F

> SHEET C-1.0of 12

GENERAL NOTES:

1. LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE SERVICING UTILITIES FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF OAR 952-001-0010 THROUGH 952-001-0090. ONE CALL PHONE NUMBER 811.

7 2. CONSTRUCTION OF ALL PRIVATE SEWERS SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING CODES, THE LOCAL AUTHORITY AND AS SPECIFIED HEREIN. SEWER AND MANHOLE TESTING SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING SPECIALTY CODES AND THE LOCAL AUTHORITY.

3. PROVIDE SHORING OF ALL TRENCHES AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES.

4. WHERE CONNECTING TO AN EXISTING PIPE, THE CONTRACTOR SHALL EXPOSE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION, PIPE MATERIAL AND ELEVATION PRIOR TO LAYING NEW PIPE.

5. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF BROWNSVILLE AND THE OWNER BEFORE THE CHANGES ARE IMPLEMENTED.

6. THE CONTRACTOR SHALL EMPLOY CONSTRUCTION PRACTICES WHICH WILL MINIMIZE THE EROSION OF DISTURBED GROUND DURING THE CONSTRUCTION ACTIVITY. THE PRACTICES SHALL COMPLY WITH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT. PURSUANT TO ORS 468.740 AND THE FEDERAL CLEAN WATER ACT.

7. WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF OAR 952-001-0010 TO 952-001-0090, WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND-EXPOSE (POT-HOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO AVOID DAMAGING THEM.

8. PROVIDE DUST CONTROL AT ALL TIMES.

9. ALL STRIPPINGS TO BE SPREAD ONSITE IN NON STRUCTURAL AREAS.

10. BOUNDARY INFORMATION PROVIDED BY EGR & ASSOCIATES INC. THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT A BOUNDARY SURVEY. REFER TO PLAT DOCUMENTS FOR BOUNDARY INFORMATION. ALL ELEVATIONS ARE GIVEN IN NAVDB8 VERTICAL DATUM. APPROXIMATE CONVERSION FROM NGVD29 TO NAVD88 LOCAL TO THE SITE IS 3.48'.

11. OFFSITE IMPROVEMENTS TO BE BUILT UNDER SEPARATE PERMIT FROM LINN COUNTY. SEE SEPARATE PEPI PLANS FOR OFFSITE IMPROVEMENTS.

12. 100 YEAR FLOOD PLAIN ELEVATIONS SHOWN ARE DERIVED FROM FEMA FIRM MAPS-CONVERTED TO NAVD88 DATUM.

13. CONTOURS SHOWN ON THIS SHEET ARE EXISTING FROM LAST TOPO SURVEY DONE ON SITE.

14. PHASE 1 IMPROVEMENTS ARE CURRENTLY UNDER CONSTRUCTION AT TIME OF PHASE 2 DESIGN. THESE DRAWINGS ASSUME PHASE 1 IS CONSTRUCTED PER PHASE 1 DESIGN DRAWINGS. CHANGES MAY BE NEEDED AFTER PHASE 1 CONSTRUCTION IS COMPLETED.

CITY OF BROWNSVILLE THE DYER PARTHEASHIP

APPROVED FOR CONSTRUCTION

10-28-2030

ABBREVIATION LEGEND

PROPOSED FLOW DIRECTION S=2.00% PROPOSED SLOPE BW BACK OF WALK FLEVATION FX **EXISTING FLEVATION** FG FINISH CRANE SIDEWALK CURB INLET TOP OF CURB EX GR EXISTING GRADE BR BACK OF RAMP GB GUTTER BAR AC ASPHALT/CONCRETE LOW POINT B.O.W. BOTTOM OF WALL T.O.W. TOP OF WALL BFE BASE FLOOD ELEVATION

FLOWLINE

INSPECTION GENERAL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL REQUIRED INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS. COORDINATE INSPECTION SCHEDULE WITH
- 2. PROJECT ENGINEER OR AUTHORIZED REPRESENTATIVE TO PROVIDE ROUTINE INSPECTION OF ALL ELEMENTS IN MATRIX BELOW.
- 3. LINN COUNTY INSPECTOR SHALL BE NOTIFIED FOR ALL REQUIRED INSPECTIONS IN COUNTY RIGHT-OF-WAY.
- 4. THIRD PARTY TESTING FOR DENSITY TESTS, AND CONCRETE TO BE PROVIDED.
- 5. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY PROVIDERS FOR NECESSARY TRENCH INSPECTIONS.

Inspection	Interval	Requirement	Notes
Roadway			
Subgrade Prep.	Proof Rolled		Witnessed by Engineer of Record and City of Brownsville.
Base Rock/Curb Rock	1 Test /4,000 SF/ Lift, Proof Roll w/ Loaded Dump Truck	95% of max. dry density, T-180 modified ASTM	Third Party Lab Test/ Engineer of Record
Asphalt (Local)	1 Test / 6,000 SF / Lift	92% Rice Value	Third Party Lab Test
Sidewalk / Curb and Gutter	1 per 100 cubic yards	Slump & Air, Set of Cylinders	Third Party Lab Test
Curb and Gutter		Water Flow Test	Witnessed by Engineer of Record and City of Brownsville.
ADA Ramps	All Ramps / Landings	Slump & Air, Set of Cylinders	Third Party Lab Test
Piped Utilities Trench Backfill	1 Test / 200 LF / 3' Lift	92% of max. dry density, T-180 modified ASTM	
Trench AC Restoration	1 Test / 300 LF / 3' Lift	92% Rice Value	
Storm Water			
Deflection test (Mandrel)	95% of actual inside diameter		Witnessed by Engineer of Record and City of Brownsville.
TV Inspection	All lines.		Tapes reviewed by Engineer of Record and City of Brownsville,
Wastewater Mains			
IV Inspection	All lines.		Tapes reviewed by Engineer of Record and City of Brownsville.
Deflection test (Mandrel)	95% of actual inside diameter		Witnessed by Engineer of Record and City of Brownsville.
acuum Testing	All Manholes.		and the same of th
Air Testing	All lines		
Water			
Pressure Test	Per City Requirement		City Witnesses Test
Bacterial Water Test	Per Oregon Health Authority	Per Oregon Health Authority	City Witnessed Test
Chlorine Residual Test	Per City Requirement	Per City Requirement	City Witnessed Test
ire Flow Test	When Water System Active		City Witnessed Test

EROSION CONTROL INSPECTION MATRIX

PROPOSED CONCRETE

PROPOSED ASPHALT

PROPOSED GRAVEL SECTION

	Site Condition	Minimum Frequency
1.	Active Period	Daily when stormwater runoff, including runoff from snowmelt, is occurring. At least once every two weeks, regardless of whether or not runoff is occurring.
2.	Prior to the site becoming inactive or in anticipation of site inaccessibility.	Once to ensure that erosion and sediment control measures are in working order. Any necessary maintenance and repair must be made prior to leaving the site.
3.	Inactive periods greater than fourteen (14) calendar days.	Once every two (2) weeks.
4.	Periods during which the site is inaccessible due to inclement weather.	If practical, inspections must occur daily at a relevant and accessible discharge point or downstream location.

GENERAL NOTES

- 1. CONSTRUCTION SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018 AND THE OREGON STANDARD DRAWINGS CURRENT.
- 2. ALL MATERIAL AND EQUIPMENT SHOWN HEREON IS SUBJECT TO REVIEW AND APPROVAL BY THE CITY. THE DESIGN ENGINEER SHALL APPROVE AND PROVIDE THREE COPIES OF CATALOGUE CUT SHEETS FOR ALL MATERIAL AND EQUIPMENT TO BE INSTALLED ON THE PROJECT TO THE CITY OF BROWNSVILLE CITY ENGINEER, ALLOW A MINIMUM OF 10 DAYS FOR CITY ENGINEER REVIEW OF SUBMITTALS.
- 3. ITEMS OF WORK NOT SHOWN ON THE PLAN BUT NECESSARY FOR SUCCESSFUL COMPLETION OF THIS PROJECT WILL BE REQUIRED BY THE CITY.
- 4. THE CITY ENGINEER SHALL PROVIDE A NOTICE TO PROCEED. SUCH NOTICE SHALL NOT BE ISSUED UNTIL THE CONTRACTOR OR DEVELOPER PROVIDES THE FOLLOWING:
- A. CERTIFICATE OF GENERAL LIABILITY INSURANCE LISTING THE CITY OF BROWNSVILLE AND THE CITY'S ENGINEER, THE DYER PARTNERSHIP AS ADDITIONAL. INSURED. ORIGINAL CERTIFICATE OF INSURANCE SHALL BE MAILED TO THE CITY OF BROWNSVILLE AND A COPY TO THE DYER PARTNERSHIP 481 S. MAIN STREET, LEGALAND OR 07555 LEBANON, OR 97355.
- B. THE CONTRACTOR HAS ATTENDED A PRE-CONSTRUCTION MEETING WITH THE CITY TO REVIEW SPECIAL CONSIDERATIONS ON THE PROJECT.
- 5. A COUNTY UTILITY PERMIT IS REQUIRED FOR ALL WORK TO BE CONDUCTED IN EXISTING COUNTY R.O.W. SECURE THE PERMIT THROUGH LINN COUNTY PUBLIC WORKS.
- 6. WORK SHALL NOT BE PERFORMED WITHOUT REQUIRED INSPECTIONS. A MINIMUM 48-HOUR ADVANCE NOTICE OF REQUIRED INSPECTIONS IS REQUIRED. THE FOLLOWING ARE MINIMUM INSPECTION REQUIREMENTS:
 - A. TV INSPECTION OF ALL SEWER AND DRAINAGE PIPING.
 - B. HYDROSTATIC TESTING, DEFLECTION TESTING AND MANHOLE TESTING OF ALL SANITARY SEWER ELEMENTS
 - C. DEFLECTION TESTING OF ALL STORM DRAINAGE LINES.
 - D. FLUSHING, DISINFECTION AND HYDROSTATIC TESTING OF ALL WATER LINES.
 - E. DEFLECTION TESTING ON SUB-GRADE.
 - F. ITEMS LISTED IN THE TABLE.
- 7. WHERE CONTRACTOR IS UNABLE TO ACHIEVE SUB-GRADE COMPACTION AND DEFLECTION REQUIREMENTS THE SUB-GRADE SHALL BE LOWERED A MINIMUM OF SIX INCHES, FABRIC SHALL BE PLACED AND THE MATERIAL REMOVED AND REPLACED WITH 1"-0 INCH MINUS CRUSHED ROCK. THIS PROCESS SHALL BE COMPLETED UNTIL TESTING MEETS THE REQUIREMENTS OF THE SPECIFICATIONS.
- 8. HOT MIX ASPHALT CONCRETE (HMAC) SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. LEVEL 2 HMAC SHALL BE USED FOR LOCAL STREETS AND COLLECTORS; LEVEL 3 HMAC SHALL BE USED ON ARTERIALS OR OTHER STREETS AT THE CITY ENGINEER'S DISCRETION ASPHALL MIX DESIGN SUBMITTAL SHALL FOLLOW THE STANDARD SUBMITTAL PROCESS OUTLINED IN ITEM 2.
- 9. CONTRACTOR SHALL FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER REGARDING THE REQUIREMENTS FOR UTILITY LOCATES (OAR 952-001-0090). COPIES ARE AVAILABLE AT 503-232-1987.
- 10. THE CONTRACTOR SHALL PROTECT AND REPLACE ALL DISTURBED VEGETATION, FENCING AND OTHER IMPROVEMENTS ON PRIVATE PROPERTY.
- 11. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO EXISTING RESIDENTS DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE RESIDENT'S DRIVEWAYS ALONG HENSHAW DRIVE THAT ARE DISTURBED DURING CONSTRUCTION BEFORE PROJECT COMPLETION.
- 12. ACCESS TO EXISTING FIRE HYDRANTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 14. ONLY CITY PERSONNEL SHALL BE ALLOWED TO OPERATE WATER SYSTEM VALVES. CONTRACTOR SHALL COORDINATE WITH CITY OF BROWNSVILLE PUBLIC WORKS WHEN OPERATION IS REQUIRED. 72—HOUR NOTIFICATION FOR WATER SHUTOFF OR ACTIVATION IS REQUIRED.
- 15. FOR WATER MAIN CONNECTIONS CONTRACTOR MUST HAVE ALL EQUIPMENT, FITTINGS, AND PIPING ON SITE AND READY FOR INSTALLATION PRIOR TO CONSTRUCTING THE CONNECTION. CITY HAS THE RIGHT TO REFUSE AUTHORIZATION FOR THE INSTALLATION IF ALL MATERIAL AND EQUIPMENT ARE NOT ON—SITE. MAXIMUM SHUTDOWN TIME IS 3 HOURS. SHUTDOWNS ARE NOT ALLOWED ON MONDAYS OR FRIDAYS.
- 16. CONTRACTOR SHALL HAVE A SET OF THESE DRAWINGS ON SITE AT ALL TIMES.
- CONTRACTOR IS EXPECTED TO ACTIVELY ENGAGE IN EROSION CONTROL MEASURES TO MINIMIZE THE TRANSPORT OF SEDIMENT AND SOILS FROM THE CONSTRUCTION SITE. ACTIVE ENGAGEMENT SHALL MEAN THAT ALL EROSION CONTROL METHODS ARE MAINTAINED AND THAT THE FACILITIES ARE ROUTINELY INSPECTED FOR COMPENANCE WITH ACCEPTED EROSION CONTROL PRACTICES. ADDITIONAL MEASURES MAY BE REQUIRED BY THE DESIGNATED EROSION CONTROL INSPECTOR, WHO MUST BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PER DEQ 1200C PERMIT
- 18. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND SECURE COUNTY APPROVAL OF THE PLAN AT LEAST 5 WORKING DAYS PRIOR TO STARTING.
- 19. GUTTER PAN OF CURB & GUTTER SHALL BE 18" PER CITY OF BROWNSVILLE DRAWING ST103.
- 20. CONTRACTOR TO FOLLOW AWWA 600 AND 651 FOR DISINFECTION STANDARDS AND D.I. TESTING.

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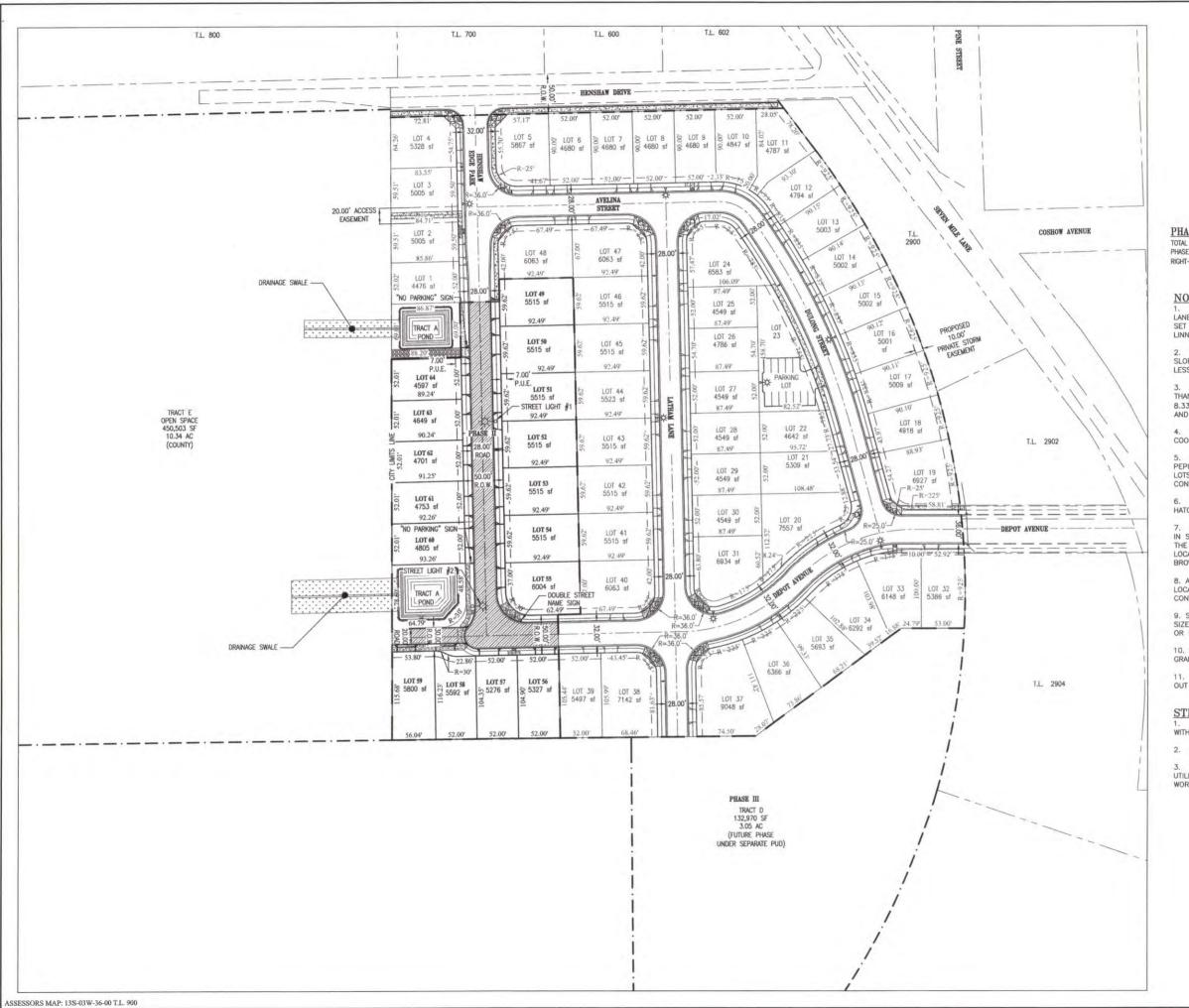
Brownsville

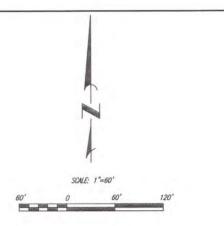
Constructions Notes
for Phase 2 of
r's Edge Subdivision Phase dge dg River'



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PHASE 2 SITE DATA:

TOTAL # OF LOTS=16 PHASE 2 AREA= 2.79 ACRES RIGHT-OF-WAY WIDTH= 50'

NOTES:

1. OFFSITE UTILITY IMPROVEMENTS ARE REQUIRED ON SEVEN MILE LANE AND HENSHAW DRIVE. THESE ARE SHOWN ON SEPARATE PLAN SET APPROVED BY LINN COUNTY, WORK COVERED UNDER LINN-COUNTY FACILITY PERMIT.

- 2 ALL PROPOSED ADA WALKWAYS SHALL HAVE CROSS SLOPES OF LESS THAN 2.00% AND RUNNING SLOPES LESS THAN 5.00%.
- 3. ADA RAMPS SHALL HAVE CROSS SLOPES LESS THAN 2.00% AND RUNNING SLOPES OF LESS THAN 8.33%. LANDING AND TURNING SPACES TO BE 5'X5' AND LESS THAN 2.00% IN ALL DIRECTIONS.
- 4. MAILBOX LOCATIONS TO BE DETERMINED THROUGH COORDINATION WITH THE UNITED STATES POSTAL SERVICE.
- 5. ADA RAMPS TO BE CONSTRUCTED AS PART OF THE PEPI CONSTRUCTION PHASE. SIDEWALKS FRONTING LOTS TO BE CONSTRUCTED DURING INDIVIDUAL HOME CONSTRUCTION BY HOME BUILDER.
- 6. SIDEWALKS TO BE CONSTRUCTED DURING PEPI WORK ARE HATCHED ON PLAN.
- 7. STREET NAME SIGNS AND NO PARKING SIGNS SHALL BE PLACED IN SUBDIVISION PER PLAN. SIGNS SHALL BE IN CONFORMANCE WITH THE STATE OF OREGON UNIFORM TRAFFIC MANUAL. THE FINAL LOCATION OF ALL STREET SIGNS TO COORDINATED WITH THE CITY OF DEPARKING U.S. BROWNSVILLE.
- 8. ALL LOT DRIVEWAYS ARE PROPOSED TO BE 16' THROAT WIDTH. LOCATIONS TO BE FINALIZED WITH HOME BUILDERS IN THE FIELD. CONTRACTOR TO VERIFY PRIOR TO POURING CURBS.
- 9. SEE PHASE 2 PLAT DOCUMENT FOR ACTUAL LOT DIMENSIONS AND SIZE. THIS DRAWING SHALL NOT BE CONSIDERED A SURVEY DRAWING OR USED FOR PROPERTY PIN PLACEMENT.
- 10. SIDEWALK RAMPS FALLING OUTSIDE OF PUBLIC R.O.W. TO BE GRANTED SIDEWALK EASEMENTS. SEE FINAL PLAT FOR DETAILS.
- 11. NO PARKING SIGNS SHALL BE INSTALLED AT LOCATIONS CALLED OUT ON PLAN.

STREET LIGHT NOTES:

THERE ARE 2 STREET LIGHTS PROPOSED TO BE INSTALLED WITHIN PHASE 2.

- 2. STREET LIGHT LOCATIONS ARE SHOWN ON PLAN.
- 3. FOR STREET LIGHT TYPE AND DESIGN REFER TO SEPARATE UTILITY PLANS PREPARED BY PACIFIC POWER. DESIGN DETAILS TO BE WORKED OUT BY CITY OF BROWNSVILLE.

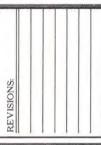




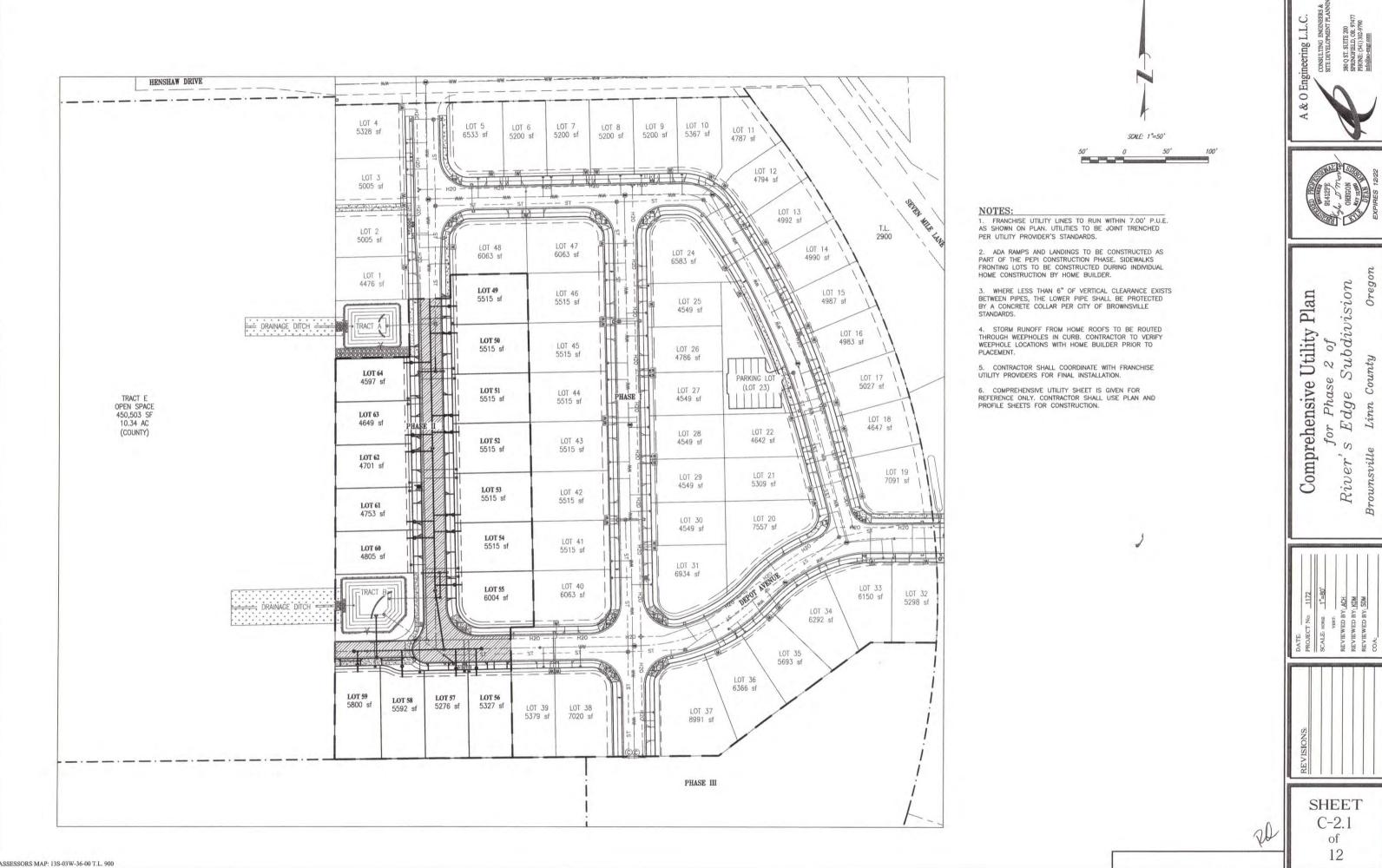
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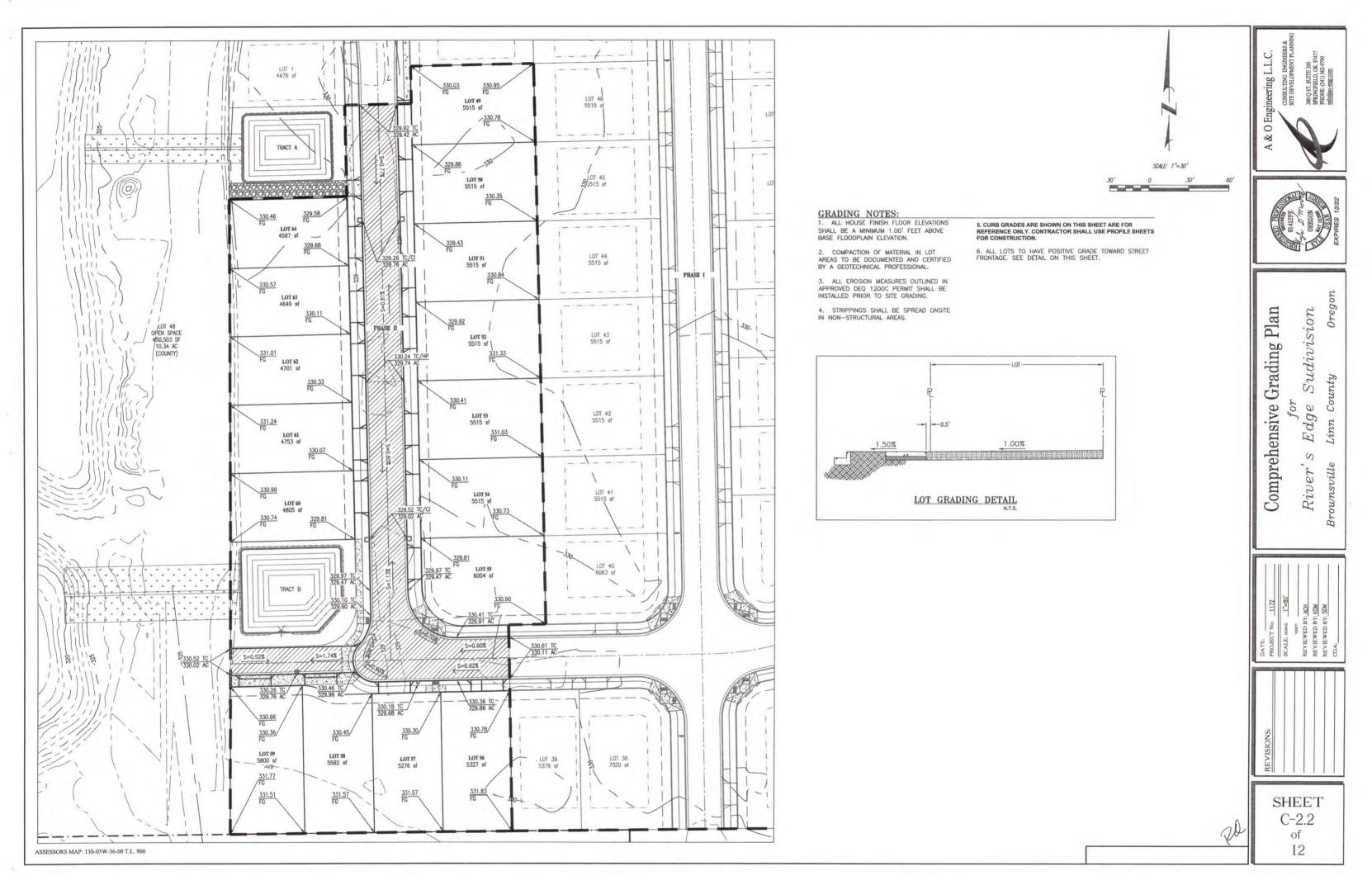
e 2 of Subdivision Development Plan 0 dg for Site River'

nsville

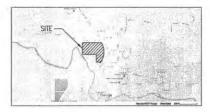


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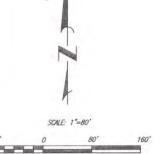




PEPI PLANS FOR UTILITY PROVIDERS: RIVER'S EDGE SUBDIVISION CONTRACTOR DESIGN ENGINEER OWNER/APPLICANT PLAT SURVEYOR WATER- CITY OF BROWNSVILLE SEWER- CITY OF BROWNSVILLE MID-VALLEY GRAVEL COMPANY 705 CLEMENS MILL ROAD PHILOMATH, OREGON 97570 PROGRESSIVE DESIGN BUILDERS,INC. P.O. BOX 727 EGR & ASSOCIATES, INC 2535 PRAIRIE RD., STE B EUGENE, OREGON 97402 PHASE 2 CABLE- ALYRICA N.W. 1/4, SEC.31, T.13S. R.2 W, W.M. PHONE- CENTURY LINK
ELECTRICITY- PACIFIC POWER
NATURAL GAS- NORTHWEST NATURAL GAS SPRINGFIELD, OREGON 97477 PHONE: (541) 929-2200 PHONE: (541) 302-9790 ALBANY, OREGON 97321 PHONE: (541) 688-8322 TAX LOT 900 PHONE: (541) 740-2948 BROWNSVILLE, LINN COUNTY, OREGON THE VILLE LOT 26 4786 sf LOT 44 5523 sf EXISTING POND A



VICINITY MAP



GENERAL NOTES:

1. LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE SERVICING UTILITIES FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF OAR 952-001-0010 THROUGH 952-001-0090. ONE CALL PHONE NUMBER 811.

7 2. CONSTRUCTION OF ALL PRIVATE SEWERS SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING CODES, THE LOCAL AUTHORITY AND AS SPECIFIED HEREIN. SEWER AND MANHOLE TESTING SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING SPECIALTY CODES AND THE LOCAL AUTHORITY.

3. PROVIDE SHORING OF ALL TRENCHES AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES.

- 4. WHERE CONNECTING TO AN EXISTING PIPE, THE CONTRACTOR SHALL EXPOSE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION, PIPE MATERIAL AND ELEVATION PRIOR TO LAYING NEW PIPE.
- 5. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD AND CITY OF BROWNSVILLE AND THE OWNER BEFORE THE CHANGES ARE IMPLEMENTED.
- 6. THE CONTRACTOR SHALL EMPLOY CONSTRUCTION PRACTICES WHICH WILL MINIMIZE THE EROSION OF DISTURBED GROUND DURING THE CONSTRUCTION ACTIVITY. THE PRACTICES SHALL COMPLY WITH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT. PURSUANT TO ORS 468.740 AND THE FEDERAL CLEAN WATER ACT.
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SHEET INDEX

-1.0 COVER SHEET -1.1 CONSTRUCTION NOTES

2.0 SITE DEVELOPMENT PLAN -2.1 COMPREHENSIVE UTILITY PLAN -2.2 COMPREHENSIVE GRADING PLAN

2-3.0 PLAN & PROFILE HENSHAW EDGE PARK

-3.1 PLAN & PROFILE HENSHAW EDGE PARK C-4.0 PLAN & PROFILE DEPOT AVENUE

C-4.1 PLAN & PROFILE DEPOT AVENUE

C-5.0 CIVIL DETAILS

C-5.1 CIVIL DETAILS

C-5.1 CIVIL DETAILS

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Oregon

County

see 2 of Subdivision for Phase s Edge S Cover S River'



SHEET C-1.0of 12

APPROVED FOR CONSTRUCTION 10-28-2030

CITY OF BROWNSVILLE THE DYER PARTHEASHIP

PROPOSED CONCRETE

PROPOSED GRAVEL SECTION

PROPOSED ASPHALT

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EROSION CONTROL INSPECTION MATRIX

	Site Condition	Minimum Frequency
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GENERAL NOTES

ABBREVIATION LEGEND

S=2.00%

BW

FX

FG

EX GR

BR

GB

AC

B.O.W.

T.O.W.

BFE

PROPOSED FLOW DIRECTION

BACK OF WALK FLEVATION

PROPOSED SLOPE

EXISTING FLEVATION

FINISH CRANE

SIDEWALK

CURB INLET

TOP OF CURB

EXISTING GRADE

BACK OF RAMP

ASPHALT/CONCRETE

BOTTOM OF WALL

BASE FLOOD ELEVATION

TOP OF WALL

FLOWLINE

GUTTER BAR

LOW POINT

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- CONTRACTOR SHALL FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER REGARDING THE REQUIREMENTS FOR UTILITY LOCATES (OAR 952-001-0090). COPIES ARE AVAILABLE AT 503-232-1987.
- 10. THE CONTRACTOR SHALL PROTECT AND REPLACE ALL DISTURBED VEGETATION, FENCING AND OTHER IMPROVEMENTS ON PRIVATE PROPERTY.
- 11. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO EXISTING RESIDENTS DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE RESIDENT'S DRIVEWAYS ALONG HENSHAW DRIVE THAT ARE DISTURBED DURING CONSTRUCTION BEFORE PROJECT COMPLETION.
- 12. ACCESS TO EXISTING FIRE HYDRANTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 14. ONLY CITY PERSONNEL SHALL BE ALLOWED TO OPERATE WATER SYSTEM VALVES. CONTRACTOR SHALL COORDINATE WITH CITY OF BROWNSVILLE PUBLIC WORKS WHEN OPERATION IS REQUIRED. 72—HOUR NOTIFICATION FOR WATER SHUTOFF OR ACTIVATION IS REQUIRED.
- 15. FOR WATER MAIN CONNECTIONS CONTRACTOR MUST HAVE ALL EQUIPMENT, FITTINGS, AND PIPING ON SITE AND READY FOR INSTALLATION PRIOR TO CONSTRUCTING THE CONNECTION. CITY HAS THE RIGHT TO REFUSE AUTHORIZATION FOR THE INSTALLATION IF ALL MATERIAL AND EQUIPMENT ARE NOT ON—SITE. MAXIMUM SHUTDOWN TIME IS 3 HOURS. SHUTDOWNS ARE NOT ALLOWED ON MONDAYS OR FRIDAYS.
- 16. CONTRACTOR SHALL HAVE A SET OF THESE DRAWINGS ON SITE AT ALL TIMES.
- CONTRACTOR IS EXPECTED TO ACTIVELY ENGAGE IN EROSION CONTROL MEASURES TO MINIMIZE THE TRANSPORT OF SEDIMENT AND SOILS FROM THE CONSTRUCTION SITE. ACTIVE ENGAGEMENT SHALL MEAN THAT ALL EROSION CONTROL METHODS ARE MAINTAINED AND THAT THE FACILITIES ARE ROUTINELY INSPECTED FOR COMPENANCE WITH ACCEPTED EROSION CONTROL PRACTICES. ADDITIONAL MEASURES MAY BE REQUIRED BY THE DESIGNATED EROSION CONTROL INSPECTOR, WHO MUST BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PER DEQ 1200C PERMIT
- 18. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND SECURE COUNTY APPROVAL OF THE PLAN AT LEAST 5 WORKING DAYS PRIOR TO STARTING.
- 19. GUTTER PAN OF CURB & GUTTER SHALL BE 18" PER CITY OF BROWNSVILLE DRAWING ST103.
- 20. CONTRACTOR TO FOLLOW AWWA 600 AND 651 FOR DISINFECTION STANDARDS AND D.I. TESTING.

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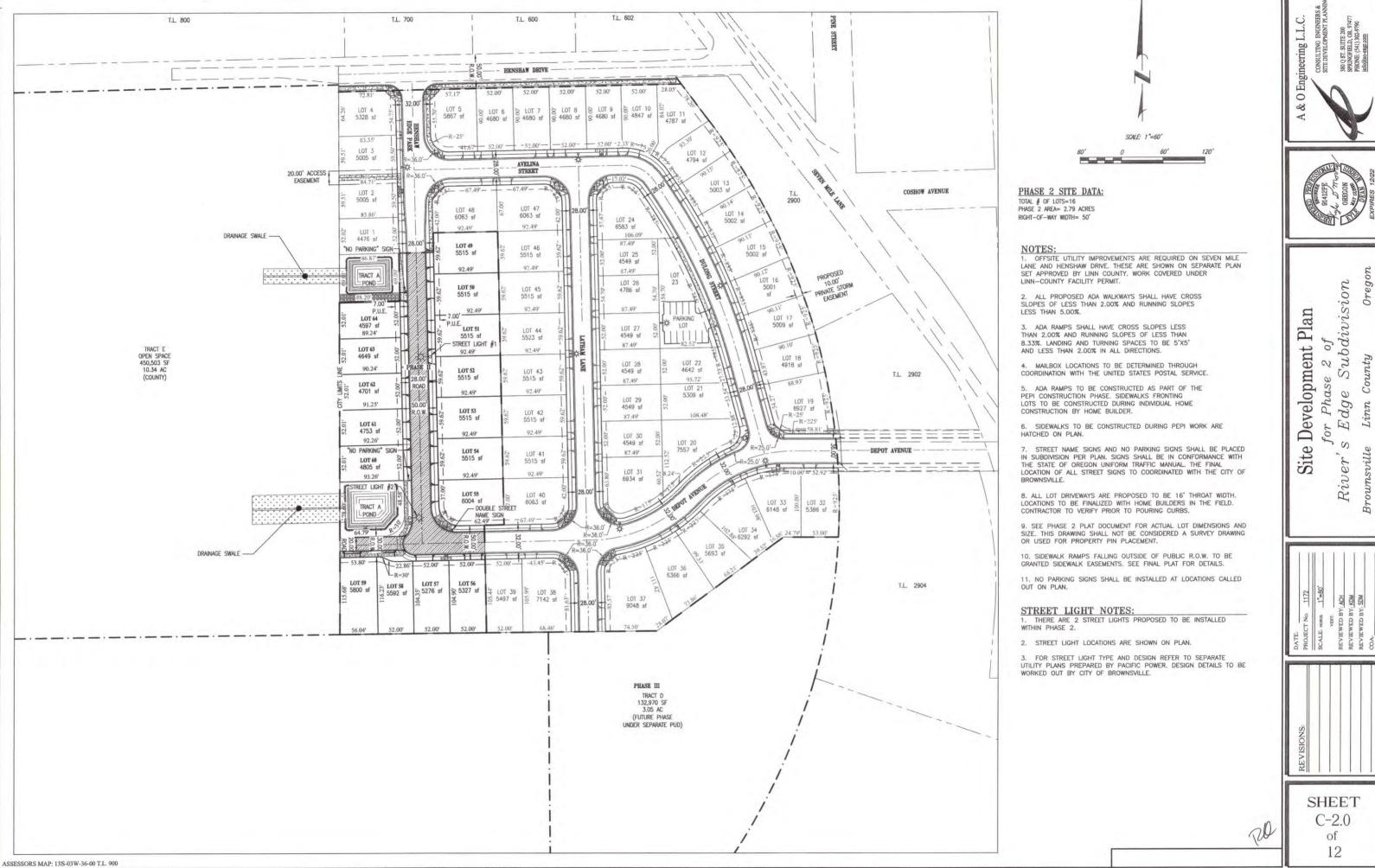
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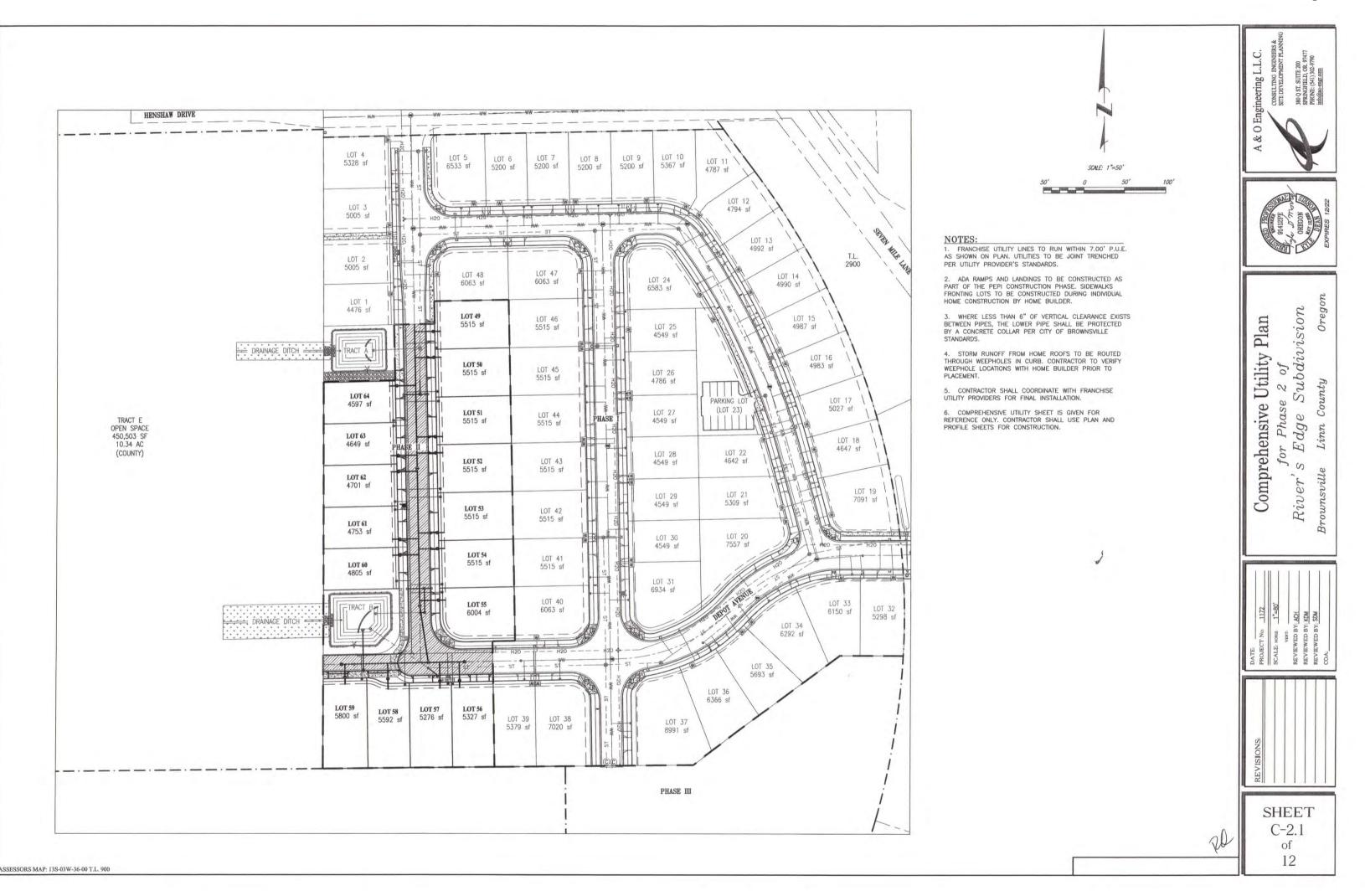
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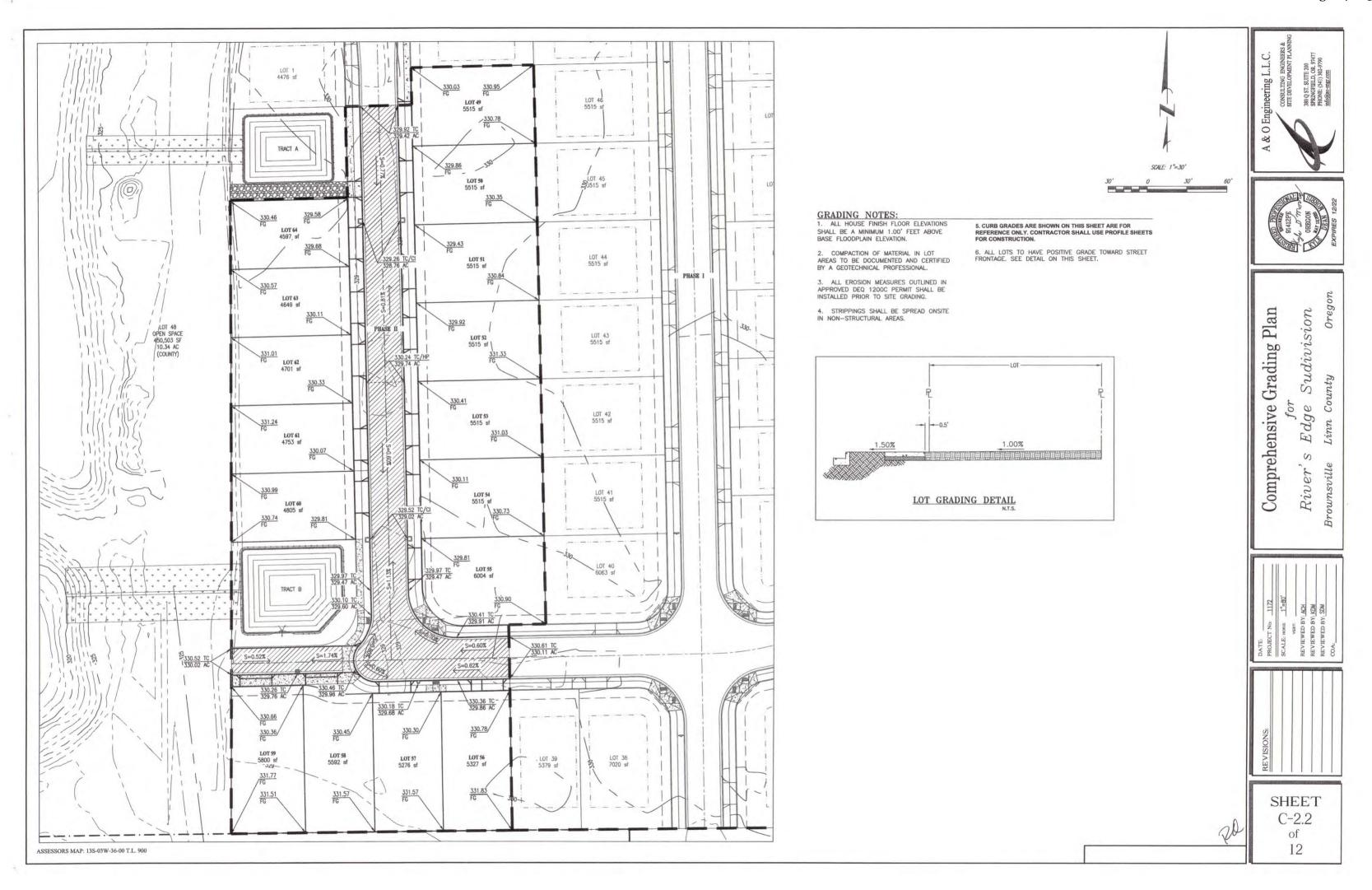


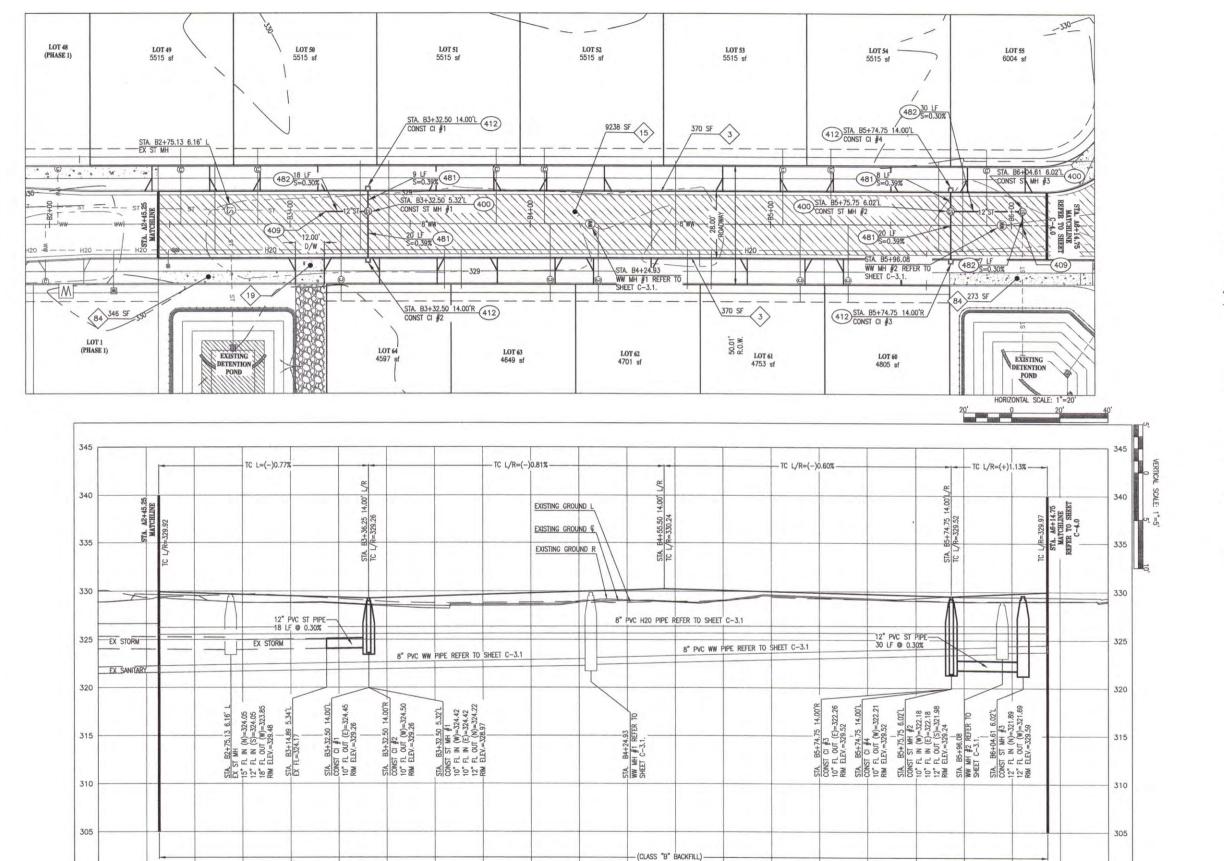












A3+60

A3+40

A3+80

A4+00

A4+20

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A5+00

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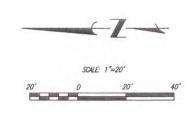
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A6+00

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GENERAL NOTES:

1. LENGTHS, AREAS, AND QUANTITIES SHOWN ARE FOR REFERENCE ONLY AND NOT INTENDED FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES.

2. EROSION CONTROL MEASURES WITHIN THE RIGHT OF WAY AND OUTLINED IN THE APPROVED DEQ 1200C PERMIT SHALL REMAIN IN EFFECT UNTIL PROJECT COMPLETION. ADDITIONAL EROSION MEASURES SHALL BE ADDED DURING CONSTRUCTION AS DIRECTED BY CESCL CERTIFIED INSPECTOR.

3. EXISTING UTILITY CONNECTIONS FROM PHASE 1 CONSTRUCTION ARE ASSUMED TO HAVE BEEN CONSTRUCTED PER PHASE 1 DESIGN PLANS. CONTRACTOR SHALL VERIFY ELEVATIONS ARE PER DESIGN PRIOR TO ORDERING MATERIALS AND MANHOLES.

PAVING CONSTRUCTION NOTES

3. CONST CURB AND GUTTER PER CITY OF BROWNSVILLE STD.
DWG ST103. REFER TO SHEET C-5.0.

DWG ST103, REFER TO SHEET C-5.0.

15. CONST 3,5" AC OVER 12" CRUSHED ROCK PER DETAIL. SEE SHEET C-5.0.

19. CONST 6" CONCRETE DRIVEWAY APPROACH WITH STANDARD WINGS PER CITY OF BROWNSVILLE STD. DWG ST114. REFER TO SHEET C-5.2.

21. CONST ADA RAMP PER CITY OF BROWNSVILLE STD. DWG ST117. REFER TO SHEET C-5.1.

84. CONST SETBACK SIDEWALK PER CITY OF BROWNSVILLE STD. DWG ST115. REFER TO SHEET C-5.1.

ST CONSTRUCTION NOTES

400. CONST STD. MANHOLE WITH BOLT DOWN LID AND STANLESS STEEL BOLTS WITH NICKEL ANTI—SEIZE LUBRICANT PER CITY OF BROWNSVILLE DWG SS118 & SS129. SEE SHEET C—5.1.
409. TIE INTO EXISTING STORM PIPE W/RIGID PVC COUPLER.
412. CONST CURB—BILET WITH BOLT DOWN LID AND STAINLESS STEEL BOLTS WITH NICKEL ANTI—SEIZE LUBRICANT PER CITY OF BROWNSVILLE STD DWG SS101 & SS129. REFER TO SHEET C—5.1.
481. CONST 10" STORM DRAIN PIPE, PVC D3034 W/ RUBBER GASKET JOINTS AND TONE WIRE.
482. CONST 12" STORM DRAIN PIPE, PVC D3034 W/ RUBBER GASKET JOINTS AND TONE WIRE.

380 Q ST. SUITE 200 SPRINGFIELD, OR. 97477 PHONE: (541) 302-9790 info@ao-engr.com A & O Engineering L.L.C. CONSULTING ENGINEE SITE DEVELOPMENT PL



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Brownsville

& Profile Henshaw Edge Park to B6+14.75
Sudivision 45.25 Edge Sta. B2+4 River's E Plan o

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SHEET C - 3.0of 12

ROADWAY HENSHAW EDGE

STORM DRAINAGE

A2+20

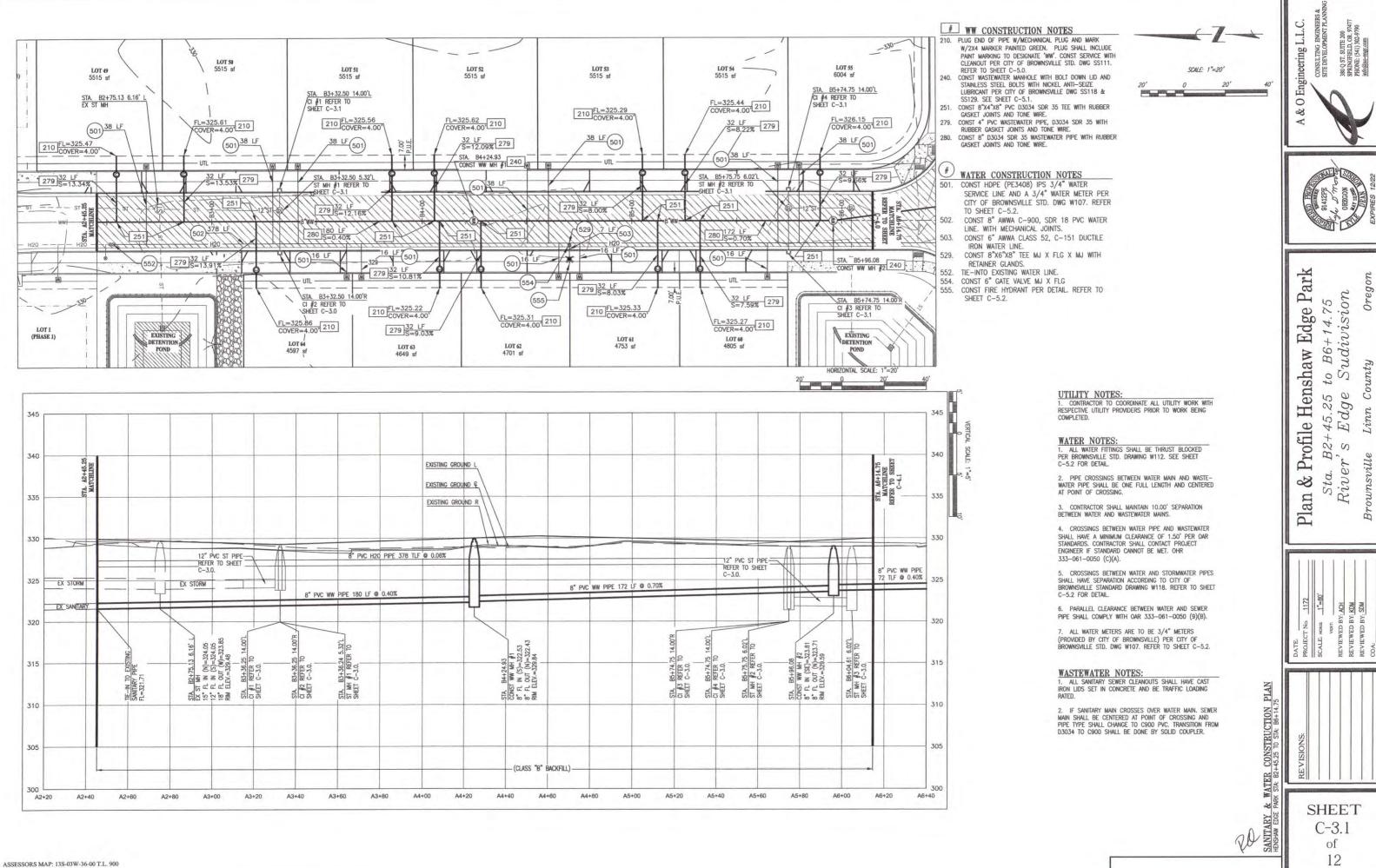
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A2+60

A2+80

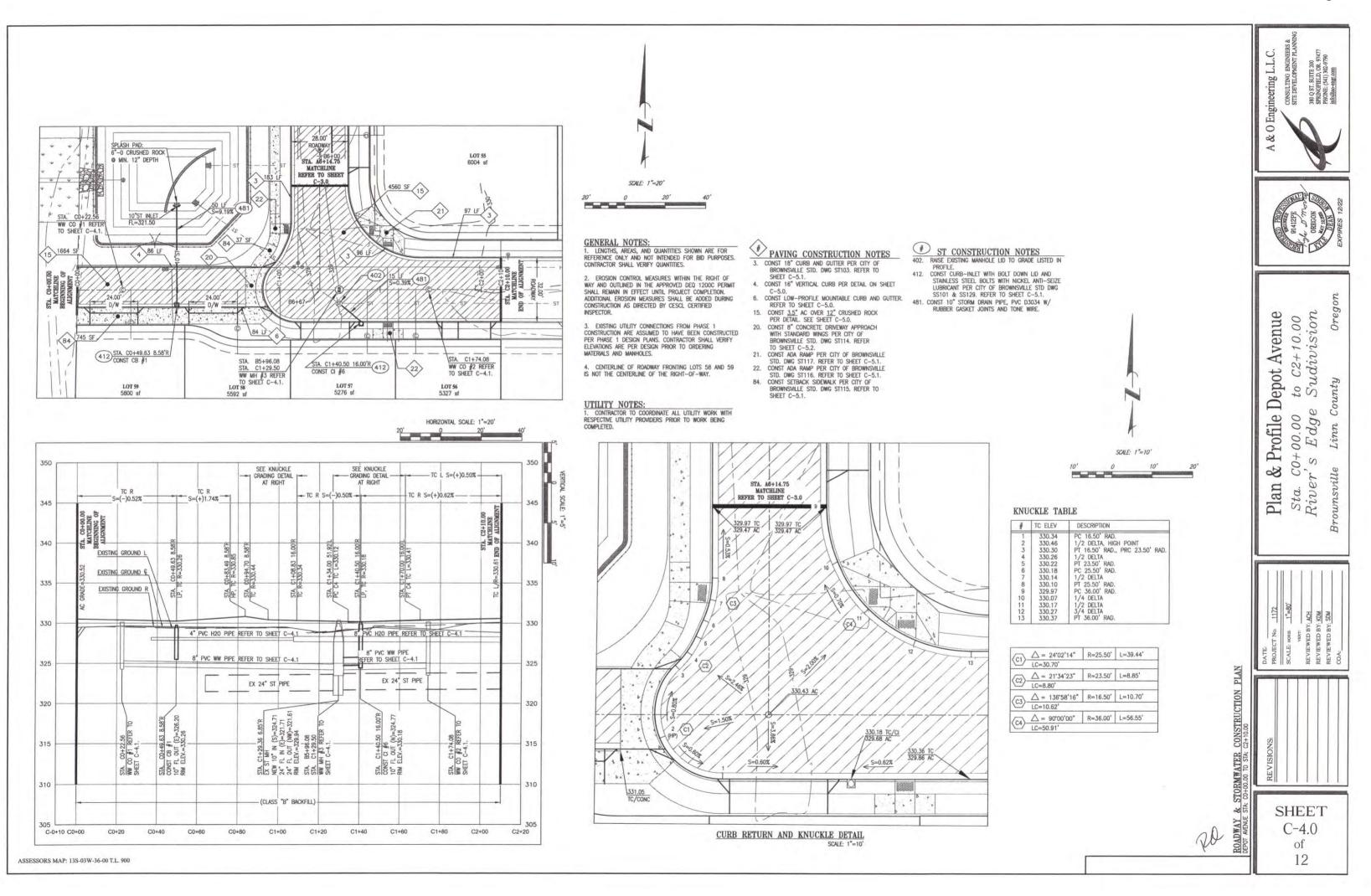
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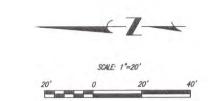
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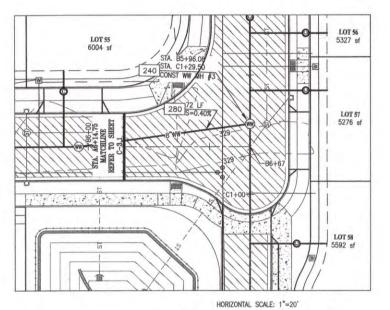


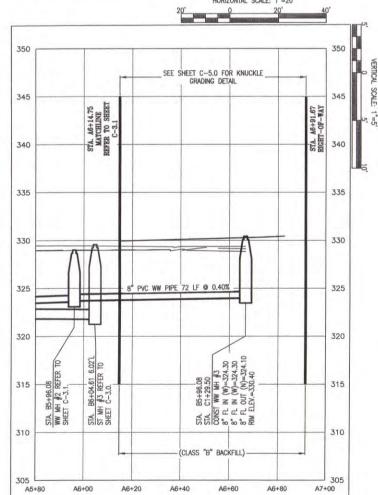


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WW CONSTRUCTION NOTES 210. PLUG END OF PIPE W/MECHANICAL PLUG AND MARK W/2X4 MARKER PAINTED GREEN. PLUG SHALL INCLUDE PAINT MARKING TO DESIGNATE 'WW'. CONST SERVICE WITH CLEANOUT PER CITY OF BROWNSVILLE STD. DWG SS111. REFER

TO SHEET C-5.0. 240. CONST WASTEWATER MANHOLE WITH BOLT DOWN 240. CONST WASTEWAREN MANHOLE WITH BOLT DOWN
LID AND STANLESS STEEL BOLTS WITH NICKEL
ANTI-SEIZE LUBRICANT PER CITY OF
BROWNSVILLE DWG SS118 & SS129. SEE
SHEET C-5.1.
250. CONST STD. CLEANOUT W/ CAST IRON LID &

6" RISER SET IN CONCRETE.
CONST 8"X4"X8" PVC D3034 SDR 35 TEE
WITH RUBBER GASKET JOINTS AND TONE WIRE. 251.

WITH RUBBER GASKET JOINTS AND TONE WIRE.

279. CONST 4" PVC WASTEWATER PIPE, D3034
SDR 35 WITH RUBBER GASKET JOINTS AND
TONE WIRE.

280. CONST 8" D3034 SDR 35 WASTEWATER PIPE
WITH RUBBER GASKET JOINTS AND TONE WIRE.

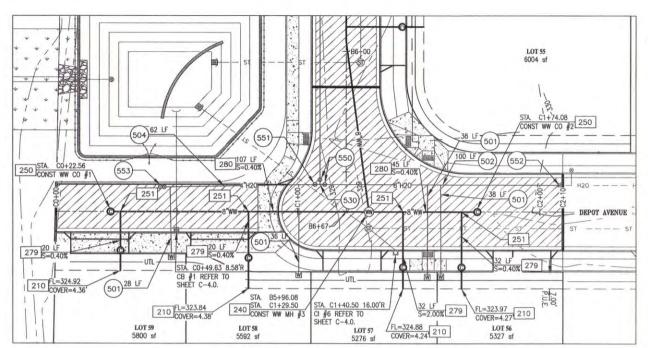
WATER CONSTRUCTION NOTES

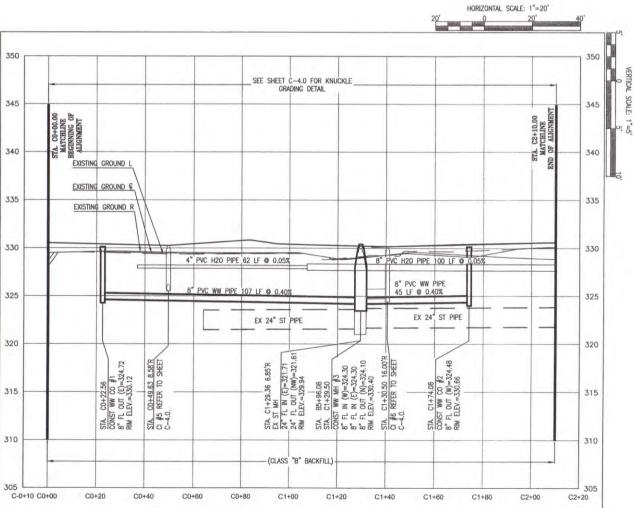
501. CONST HDPE (PE3408) IPS 3/4" WATER SERVICE LINE AND A 3/4" WATER METER PER CITY OF BROWNSVILLE STD. DWG W107, REFER TO SHEET C-5.2. 502. CONST 8" AWWA C-900, SDR 18 PVC

WATER LINE, WITH MECHANICAL JOINTS. CONST 4" AWWA C-900, SDR 18 PVC WATER LINE. WITH MECHANICAL JOINTS.

530. CONST 8"X8"X4" AWWA C-110 DUCTILE IRON TEE FLG X FLG X FLG. 550 CONST 8" GATE VALVE MI X FLG CONST 4" GATE VALVE MJ X FLG 551.

TIE-INTO EXISTING WATER LINE. CONST BLOW-OFF ASSEMBLY PER CITY OF BROWNSVILLE STD. DWG W103. REFER TO SHEET C-5.2.







GENERAL NOTES:

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UTILITY NOTES:

CONTRACTOR TO COORDINATE ALL UTILITY WORK WITH RESPECTIVE UTILITY PROVIDERS PRIOR TO WORK BEING

WATER NOTES:

1. ALL WATER FITTINGS SHALL BE THRUST BLOCKED PER BROWNSVILLE STD. DRAWING W112. SEE SHEET C-5.2 FOR DETAIL.

WATER PIPE SHALL BE ONE FULL LENGTH AND CENTERED AT POINT OF CROSSING.

2. PIPE CROSSINGS BETWEEN WATER MAIN AND WASTE-

. CONTRACTOR SHALL MAINTAIN 10.00' SEPARATION BETWEEN WATER AND WASTEWATER MAINS.

4. CROSSINGS BETWEEN WATER PIPE AND WASTEWATER SHALL HAVE A MINIMUM CLEARANCE OF 1.50' PER OAR STANDARDS. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF STANDARD CANNOT BE MET. OHR 333-061-0050 (C)(A).

5. CROSSINGS BETWEEN WATER AND STORMWATER PIPES SHALL HAVE SEPARATION ACCORDING TO CITY OF BROWNSVILLE STANDARD DRAWING W118. REFER TO SHEET C-5.2 FOR DETAIL.

6. PARALLEL CLEARANCE BETWEEN WATER AND SEWER PIPE SHALL COMPLY WITH OAR 333-061-0050 (9)(B).

7. ALL WATER METERS ARE TO BE 3/4" METERS (PROVIDED BY CITY OF BROWNSVILLE) PER CITY OF BROWNSVILLE STD. DWG W107. REFER TO SHEET C-5.2.

WASTEWATER NOTES:

ALL SANITARY SEWER CLEANOUTS SHALL HAVE CAST IRON LIDS SET IN CONCRETE AND BE TRAFFIC LOADING

2. IF SANITARY MAIN CROSSES OVER WATER MAIN. SEWER MAIN SHALL BE CENTERED AT POINT OF CROSSING AND PIPE TYPE SHALL CHANGE TO C900 PVC. TRANSITION FROM D3034 TO C900 SHALL BE DONE BY SOLID COUPLER.

Engineering L.L.C. CONSULTING ENGINEES SITE DEVELOPMENT PL : SUITE 200 FIELD, OR. 97 (541) 302-979 engr.com 380 Q ST. SPRINGFII PHONE: (5 info@ao-er A & 0]



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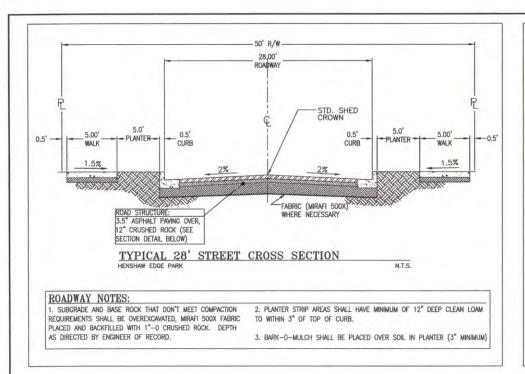
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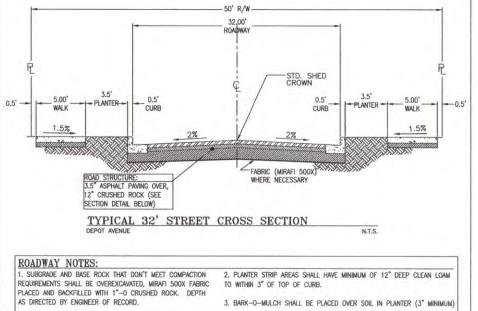
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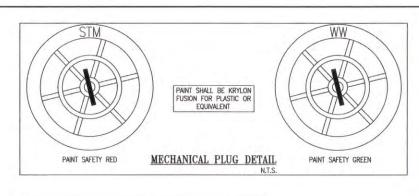
Brownsville

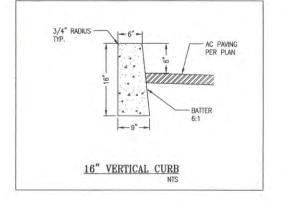
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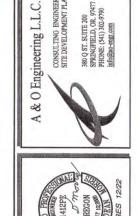
ASSESSORS MAP: 13S-03W-36-00 T.L. 900











OregonSudivision

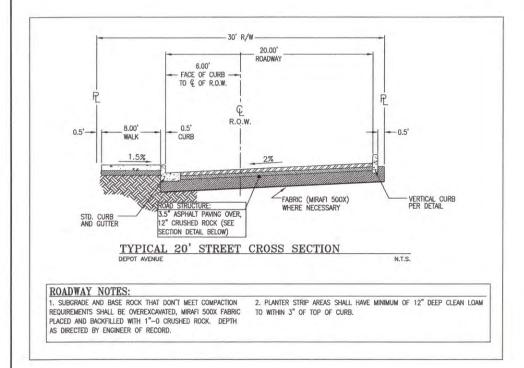
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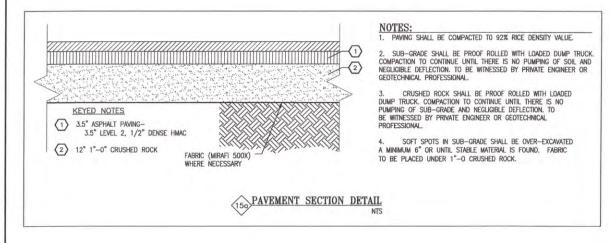


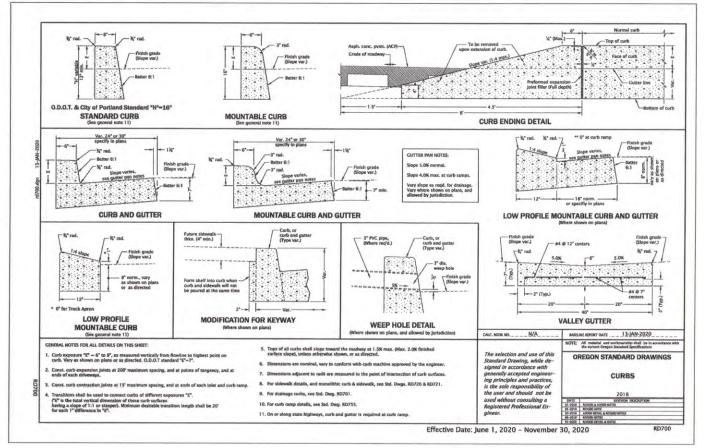
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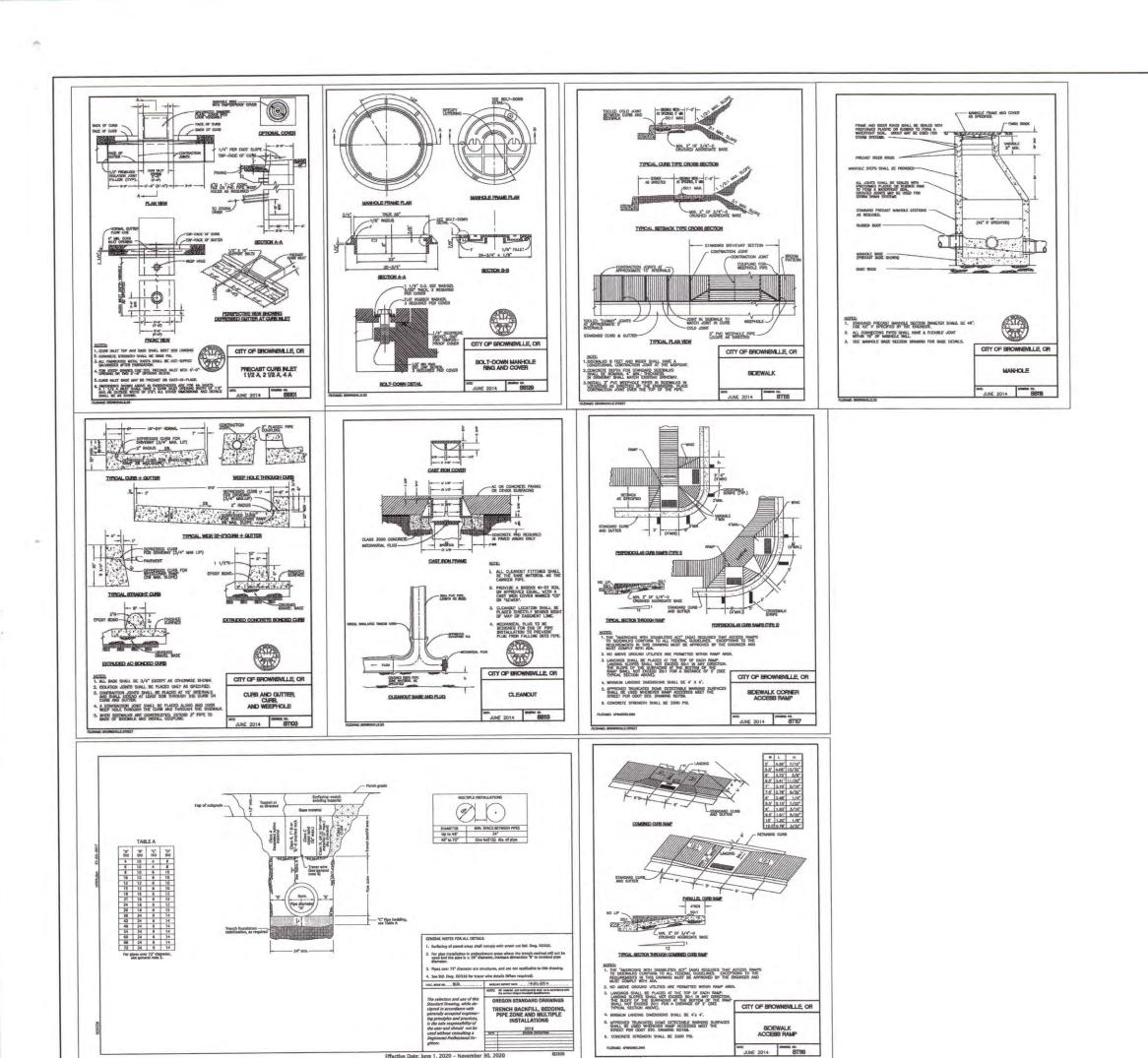
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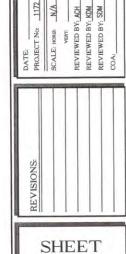




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CONSULTING ENGINEERS &
SITE DEVELOPMENT PLANNING
380 0.ST. SUITE 200
SPRINGFIELD, ON. 97477
PHONE. (541) 302-5790
info@no-engroom



Civil Details
for
for
River's Edge Sudivision
frownsville Linn County Oregon

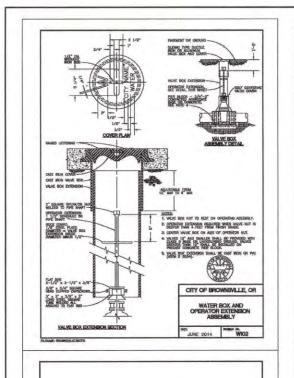


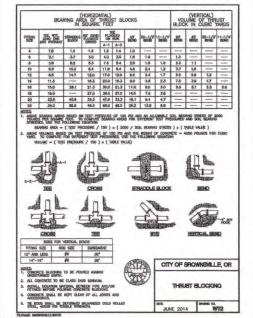
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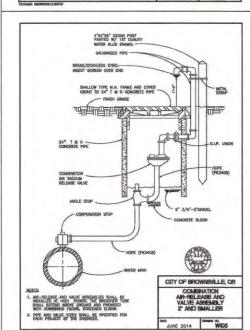
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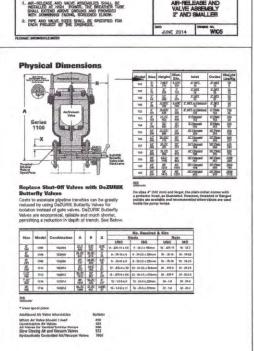
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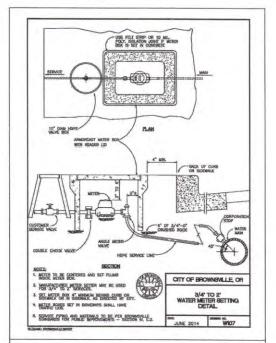
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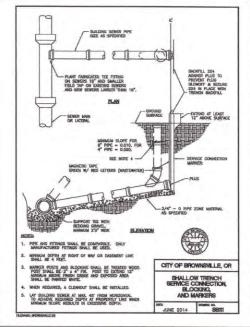


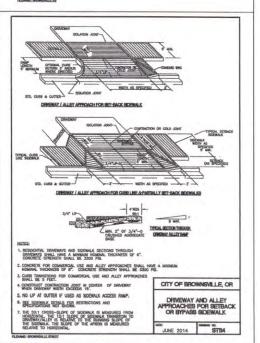


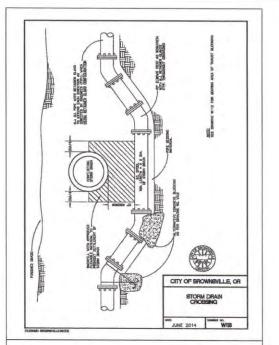


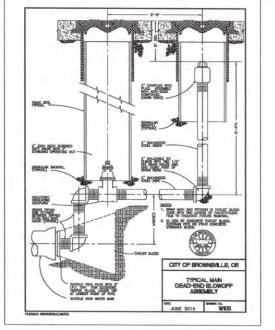
















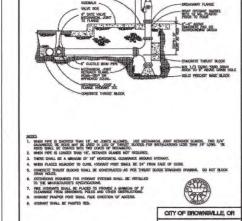
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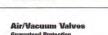
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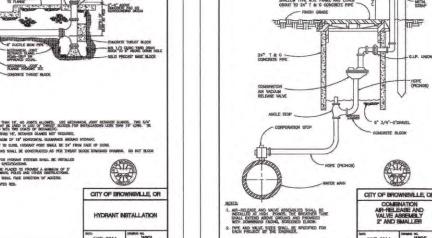




- 3. Exhausts air when the line is filled
- Stainless steel floats Gua individually tested
- It care valve tryprostations feature valves
 Why and Whore to Use
 Air/flactuum Valves
 Air/flactuum
 Air/flactuum

Manufactured to AWWA C-519

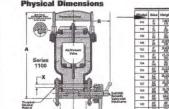






Optional: Mushroom Cup with built-in bug erreen

V (15 mm) through 3° (80 mm) outlets are NPT threat. It is good practice to install a mushroom



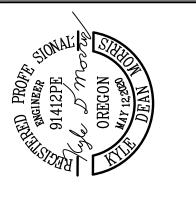
PUBLIC IMPROVEMENT PLAN FOR RIVER'S EDGE SUBDIVISION PHASE 3 N.W. 1/4, SEC.36, T.13S. R.3 W, W.M. TAX LOT 5700 BROWNSVILLE, LINN COUNTY, OREGON 41.67' 5800 sf LOT 58 ASSESSORS MAP: 13S-03W-36-00 T.L. 900

GENERAL NOTES: 1. LOCATION OF UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE SERVICING UTILITIES FIELD LOCATE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF OAR 952-001-0010 THE SHALL FOLLOW ALL REQUIREMENTS OF OAR 2. CONSTRUCTION OF ALL PRIVATE SEWERS SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING CODES, THE LOCAL AUTHORITY AND AS SPECIFIED HEREIN. SEWER AND MANHOLE TESTING SHALL COMPLY WITH THE CURRENT OREGON STATE PLUMBING SPECIALTY CODES AND THE LOCAL AUTHORITY.

3. PROV**IVICATIVE ON AIP** TRENCHES AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES.

4. WHERE CONNECTING TO AN EXISTING PIPE, THE CONTRACTOR SHALL EXPOSE EXISTING PIPE AND ALLOW THE ENGINEER TO VERIFY EXACT LOCATION, PIPE MATERIAL AND ELEVATION PRIOR TO LAYING NEW PIPE OR ANY NEW INFRASTRUCTURE.

- 5. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER OF RECORD, CITY OF BROWNSVILLE AND THE OWNER BEFORE THE CHANGES ARE IMPLEMENTED.
- 6. THE CONTRACTOR SHALL EMPLOY CONSTRUCTION PRACTICES WHICH WILL MINIMIZE THE EROSION OF DISTURBED GROUND DURING THE CONSTRUCTION ACTIVITY. THE PRACTICES SHALL COMPLY WITH THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM PERMIT. PURSUANT TO ORS 468.740 AND THE FEDERAL CLEAN WATER ACT.
- 7. WHEN PERFORMING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF OAR 952-001-0010 TO 952-001-0090, WHICH INCLUDE REQUIREMENTS THAT THE CONTRACTOR HAND-EXPOSE (POT-HOLE) UNDERGROUND FACILITIES AND USE REASONABLE CARE TO ÀVOID DAMÁGING THEM.
- 8. PROVIDE DUST CONTROL AT ALL TIMES.
- 9. ALL STRIPPINGS TO BE SPREAD ONSITE IN NON STRUCTURAL AREAS.
- 10. BOUNDARY INFORMATION PROVIDED BY EGR & ASSOCIATES INC. THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT A BOUNDARY SURVEY. REFER TO PLAT DOCUMENTS FOR BOUNDARY INFORMATION. ALL ELEVATIONS ARE GIVEN IN NAVD88 VERTICAL DATUM. APPROXIMATE CONVERSION FROM NGVD29 TO NAVD88 LOCAL TO THE SITE IS 3.48'.
- 11. 100 YEAR FLOOD PLAIN ELEVATIONS SHOWN ARE DERIVED FROM FEMA FIRM MAPS-CONVERTED TO NAVD88 DATUM.
- 12. CONTOURS SHOWN ON THIS SHEET ARE EXISTING FROM LAST TOPO SURVEY DONE ON SITE.



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SHEET C-1.01 OF 14



Digitally signed by Jesse McElwain DN: C=US, E=jmcelwain@dyerpart.com, O="The Dyer Partnership Engineers & Planners, Inc.", OU=Lebanon, CN=Jesse McElwain Contact Info: 541.570.1630 Date: 2021.11.15 16:06:01-08'00'



INSPECTION GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL REQUIRED INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS. COORDINATE INSPECTION SCHEDULE WITH PROJECT ENGINEER.

- 2. PROJECT ENGINEER OR AUTHORIZED REPRESENTATIVE TO PROVIDE ROUTINE INSPECTION OF ALL ELEMENTS IN MATRIX BELOW.
- 3. THIRD PARTY TESTING FOR DENSITY TESTS, AND CONCRETE TO BE PROVIDED.
- 4. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITY PROVIDERS FOR NECESSARY TRENCH INSPECTIONS.

EROSION CONTROL INSPECTION MATRIX

Site Condition		Minimum Frequency		
1.	Active period	On initial date that land disturbance activities commence.		
		Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site.		
		At least once every 14 days, regardless of whether stormwater runoff is occurring.		
2.	Inactive periods greater than fourteen (14) consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.		
3.	Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.		
4.	Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.		
5.	Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.		

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GENERAL NOTES

1. CONSTRUCTION SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018 AND THE OREGON STANDARD DRAWINGS CURRENT.

2. ALL MATERIAL AND EQUIPMENT SHOWN HEREON IS SUBJECT TO REVIEW AND APPROVAL BY THE CITY. THE DESIGN ENGINEER SHALL APPROVE AND PROVIDE THREE COPIES OF CATALOGUE CUT SHEETS FOR ALL MATERIAL AND EQUIPMENT TO BE INSTALLED ON THE PROJECT TO THE CITY OF BROWNSVILLE CITY ENGINEER. ALLOW A MINIMUM OF 10 DAYS FOR CITY ENGINEER REVIEW OF SUBMITTALS.

3. ITEMS OF WORK NOT SHOWN ON THE PLAN BUT NECESSARY FOR SUCCESSFUL COMPLETION OF THIS PROJECT WILL BE REQUIRED BY THE CITY.

4. THE CITY ENGINEER SHALL PROVIDE A NOTICE TO PROCEED. SUCH NOTICE SHALL NOT BE ISSUED UNTIL THE CONTRACTOR OR DEVELOPER PROVIDES THE FOLLOWING:

- A. CERTIFICATE OF GENERAL LIABILITY INSURANCE LISTING THE CITY OF BROWNSVILLE AND THE CITY'S ENGINEER, THE DYER PARTNERSHIP AS ADDITIONAL INSURED. ORIGINAL CERTIFICATE OF INSURANCE SHALL BE MAILED TO THE CITY OF BROWNSVILLE AND A COPY TO THE DYER PARTNERSHIP 481 S. MAIN STREET, LEBANON, OR 97355.
- B. THE CONTRACTOR HAS ATTENDED A PRE-CONSTRUCTION MEETING WITH THE CITY TO REVIEW SPECIAL CONSIDERATIONS ON THE PROJECT.
- 5. A COUNTY UTILITY PERMIT IS REQUIRED FOR ALL WORK TO BE CONDUCTED IN EXISTING COUNTY R.O.W. SECURE THE PERMIT THROUGH LINN COUNTY PUBLIC WORKS.

6. WORK SHALL NOT BE PERFORMED WITHOUT REQUIRED INSPECTIONS. A MINIMUM 48-HOUR ADVANCE NOTICE OF REQUIRED INSPECTIONS IS REQUIRED. THE FOLLOWING ARE MINIMUM INSPECTION REQUIREMENTS:

- A. TV INSPECTION OF ALL SEWER AND DRAINAGE PIPING.
- B. HYDROSTATIC TESTING, DEFLECTION TESTING AND MANHOLE TESTING OF ALL SANITARY SEWER ELEMENTS
- C. DEFLECTION TESTING OF ALL STORM DRAINAGE LINES.
- D. FLUSHING, DISINFECTION AND HYDROSTATIC TESTING OF ALL WATER LINES.
- E. DEFLECTION TESTING ON SUB-GRADE.
- F. ITEMS LISTED IN THE TABLE.

7. WHERE CONTRACTOR IS UNABLE TO ACHIEVE SUB-GRADE COMPACTION AND DEFLECTION REQUIREMENTS THE SUB-GRADE SHALL BE LOWERED A MINIMUM OF SIX INCHES, FABRIC SHALL BE PLACED AND THE MATERIAL REMOVED AND REPLACED WITH 1"-0 INCH MINUS CRUSHED ROCK. THIS PROCESS SHALL BE COMPLETED UNTIL TESTING MEETS THE REQUIREMENTS OF THE SPECIFICATIONS AT THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER.

8. HOT MIX ASPHALT CONCRETE (HMAC) SHALL CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. LEVEL 2 HMAC SHALL BE USED FOR LOCAL STREETS AND COLLECTORS; LEVEL 3 HMAC SHALL BE USED ON ARTERIALS OR OTHER STREETS AT THE CITY ENGINEER'S DISCRETION ASPHALT MIX DESIGN SUBMITTAL SHALL FOLLOW THE STANDARD SUBMITTAL PROCESS OUTLINED IN ITEM 2.

9. CONTRACTOR SHALL FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER REGARDING THE REQUIREMENTS FOR UTILITY LOCATES (OAR 952-001-0090). COPIES ARE AVAILABLE AT 503-232-1987.

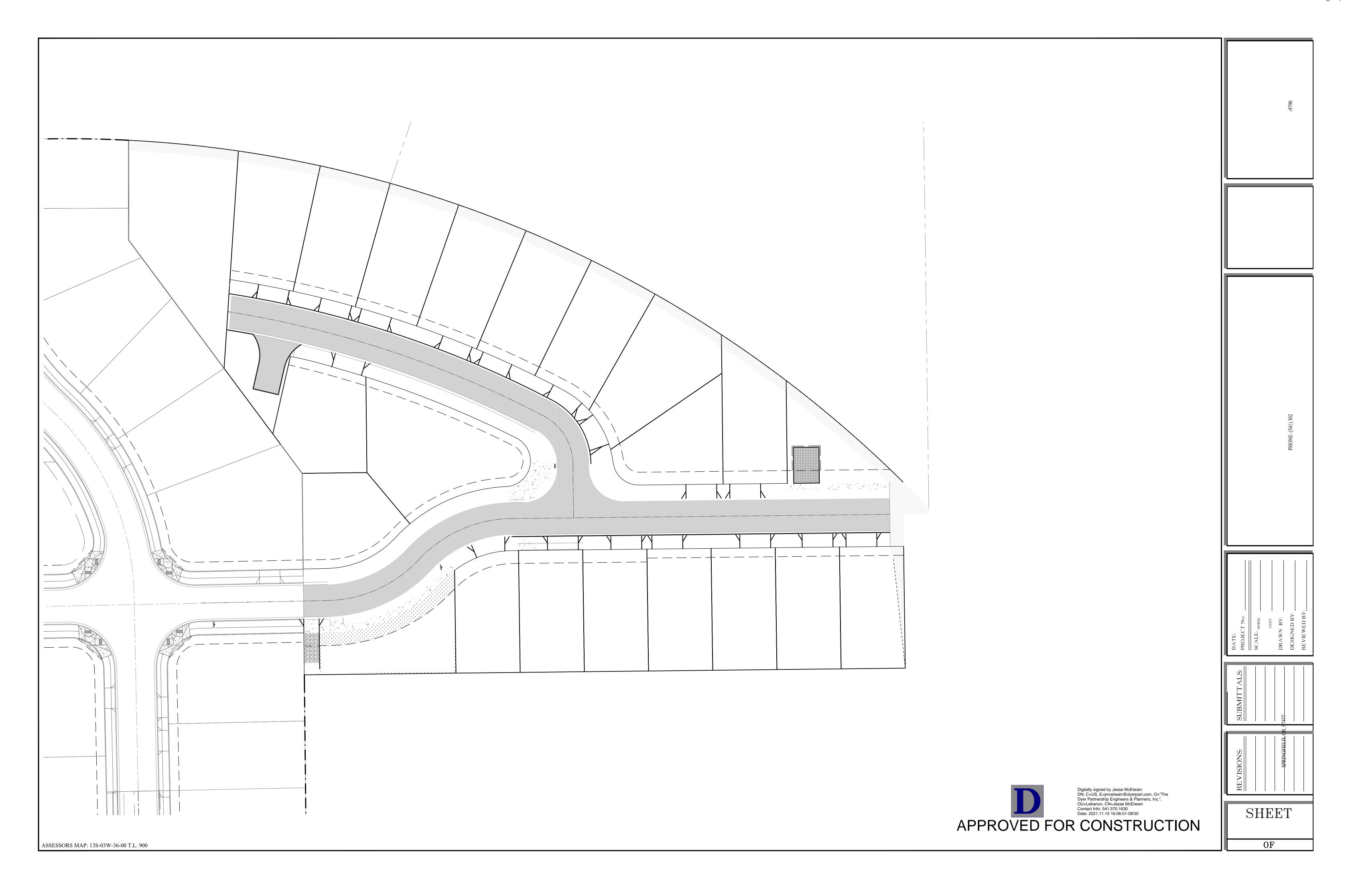
10. THE CONTRACTOR SHALL PROTECT AND REPLACE ALL DISTURBED VEGETATION, FENCING AND OTHER IMPROVEMENTS ON PRIVATE PROPERTY.

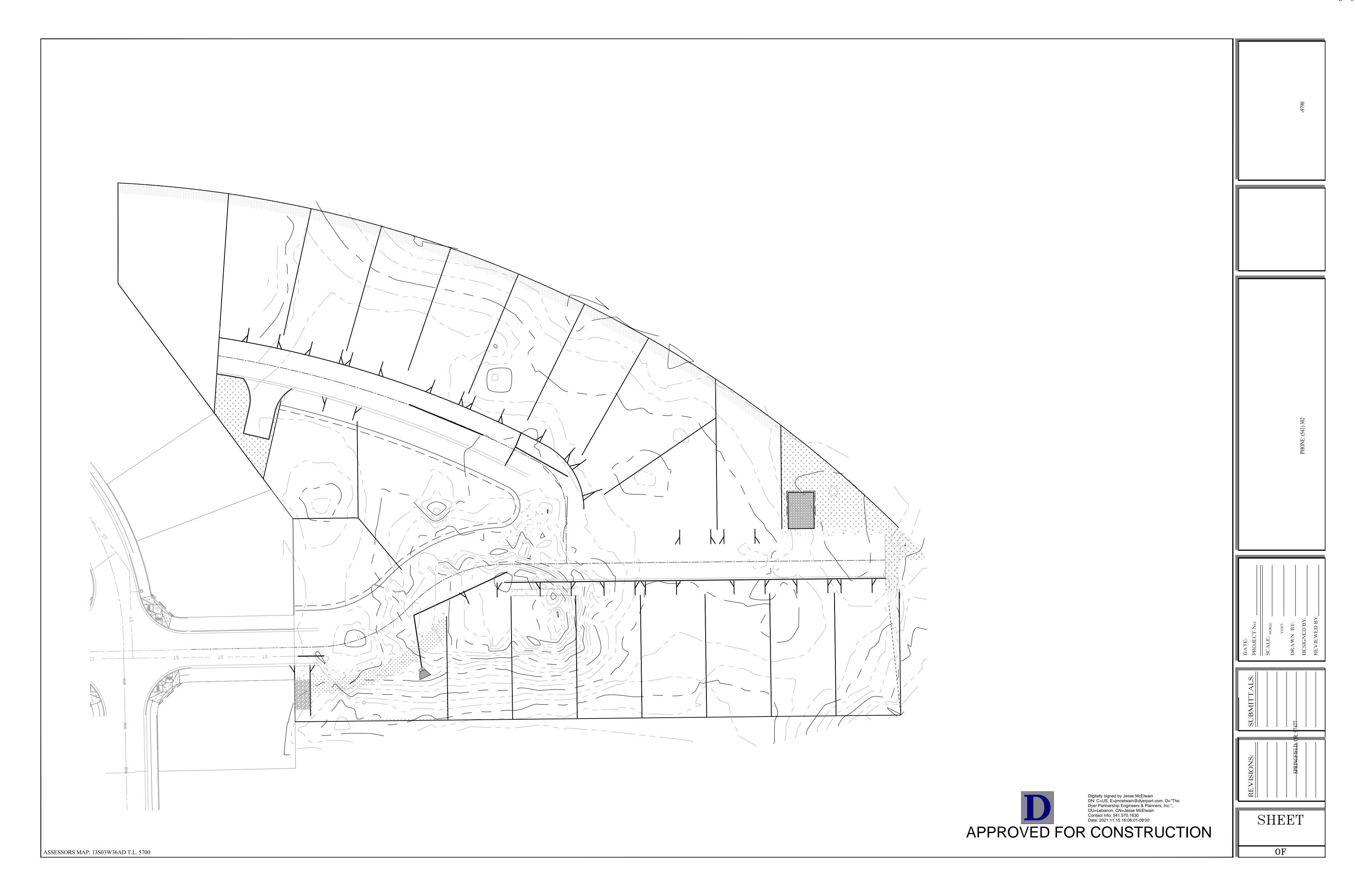
- 11. ACCESS TO EXISTING FIRE HYDRANTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 12. ONLY CITY PERSONNEL SHALL BE ALLOWED TO OPERATE WATER SYSTEM VALVES. CONTRACTOR SHALL COORDINATE WITH CITY OF BROWNSVILLE PUBLIC WORKS WHEN OPERATION IS REQUIRED. 72—HOUR NOTIFICATION FOR WATER SHUTOFF OR ACTIVATION IS
- 13. FOR WATER MAIN CONNECTIONS CONTRACTOR MUST HAVE ALL EQUIPMENT, FITTINGS, AND PIPING ON SITE AND READY FOR INSTALLATION PRIOR TO CONSTRUCTING THE CONNECTION. CITY HAS THE RIGHT TO REFUSE AUTHORIZATION FOR THE INSTALLATION IF ALL MATERIAL AND EQUIPMENT ARE NOT ON—SITE. MAXIMUM SHUTDOWN TIME IS 3 HOURS. SHUTDOWNS ARE NOT ALLOWED ON MONDAYS OR FRIDAYS.
- 14. CONTRACTOR SHALL HAVE A SET OF THESE DRAWINGS ON SITE AT ALL TIMES.

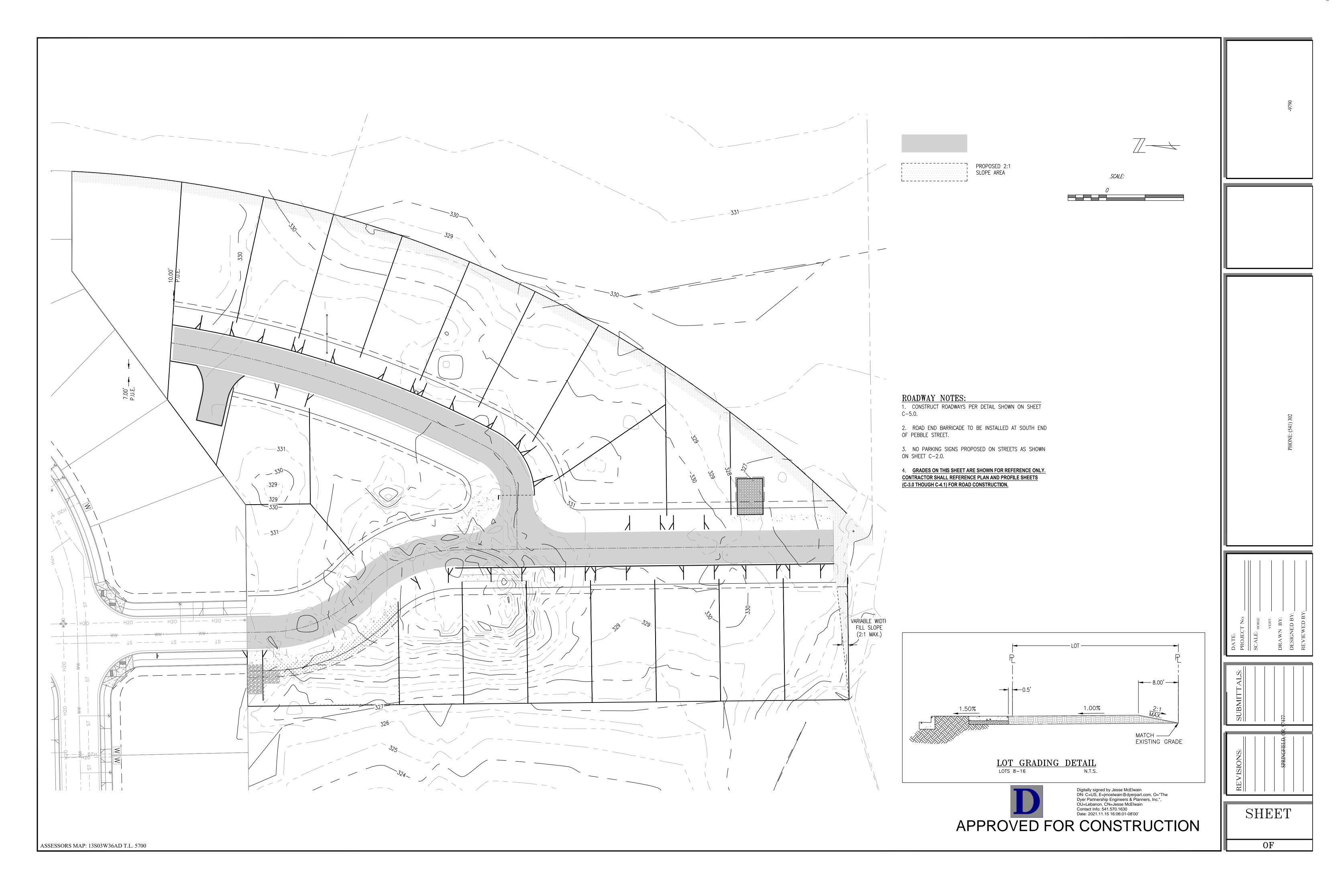
15. CONTRACTOR IS EXPECTED TO ACTIVELY ENGAGE IN EROSION CONTROL MEASURES TO MINIMIZE THE TRANSPORT OF SEDIMENT AND SOILS FROM THE CONSTRUCTION SITE. ACTIVE ENGAGEMENT SHALL MEAN THAT ALL EROSION CONTROL METHODS ARE MAINTAINED AND THAT THE FACILITIES ARE ROUTINELY INSPECTED FOR COMPLIANCE WITH ACCEPTED EROSION CONTROL PRACTICES. ADDITIONAL MEASURES MAY BE REQUIRED BY THE DESIGNATED EROSION CONTROL INSPECTOR, WHO MUST BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) PER DEQ 1200C PERMIT.

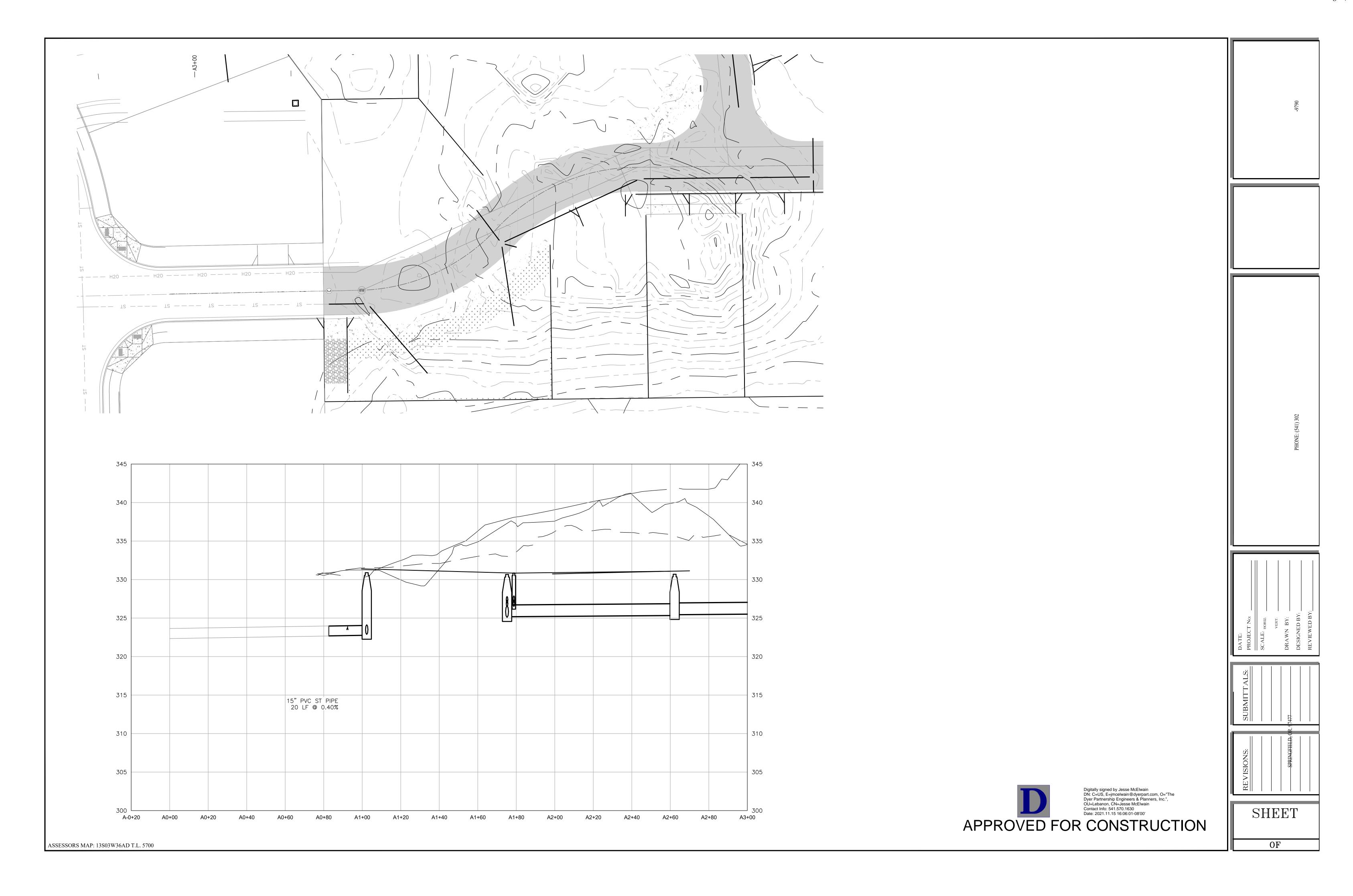
- 16. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND SECURE CITY APPROVAL OF THE PLAN AT LEAST 5 WORKING DAYS PRIOR TO STARTING.
- 17. GUTTER PAN OF CURB & GUTTER SHALL BE 18" PER CITY OF BROWNSVILLE DRAWING ST103
- 18. CONTRACTOR TO FOLLOW AWWA 600 AND 651 FOR DISINFECTION STANDARDS AND D.I. TESTING.

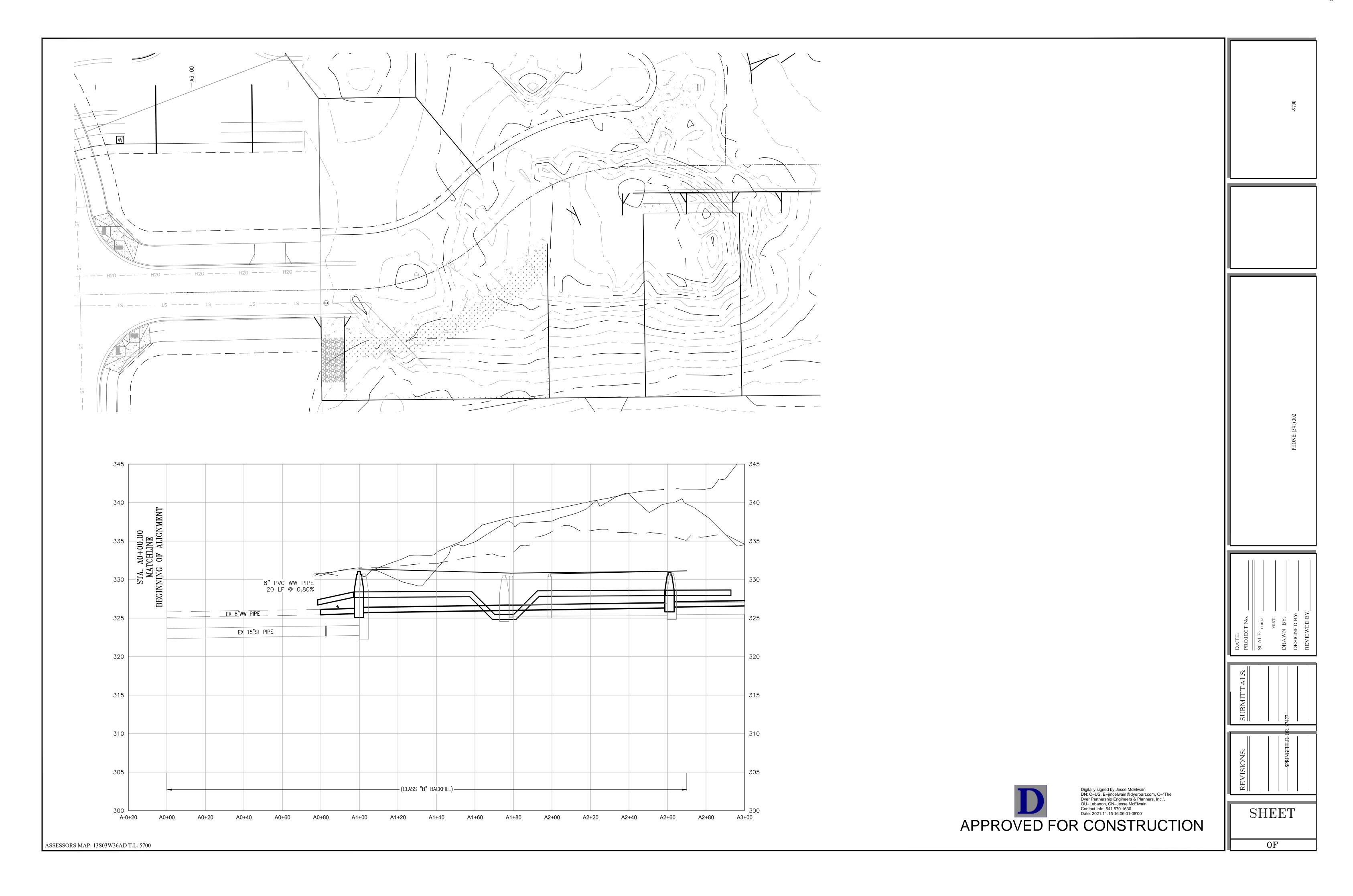


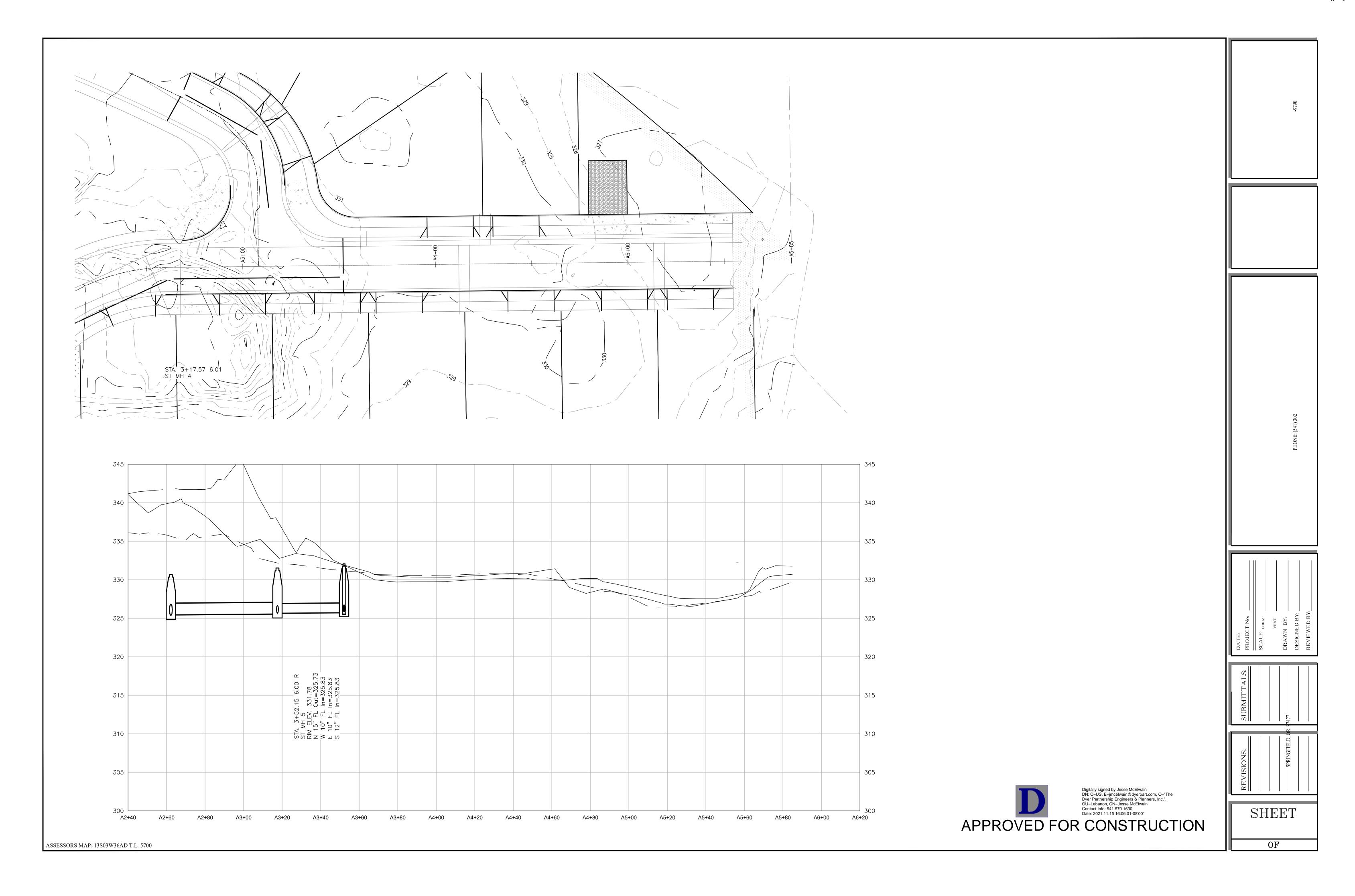


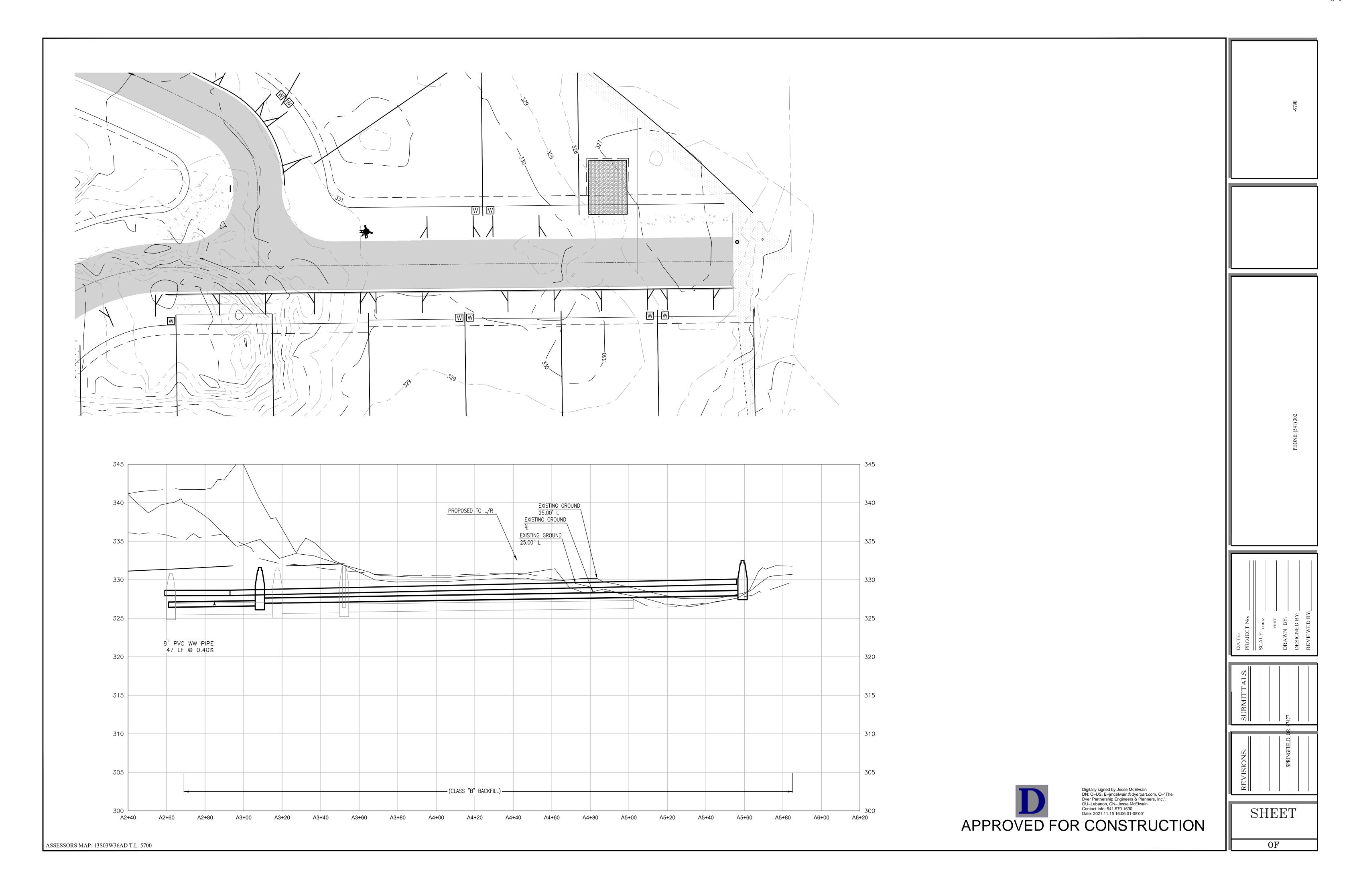


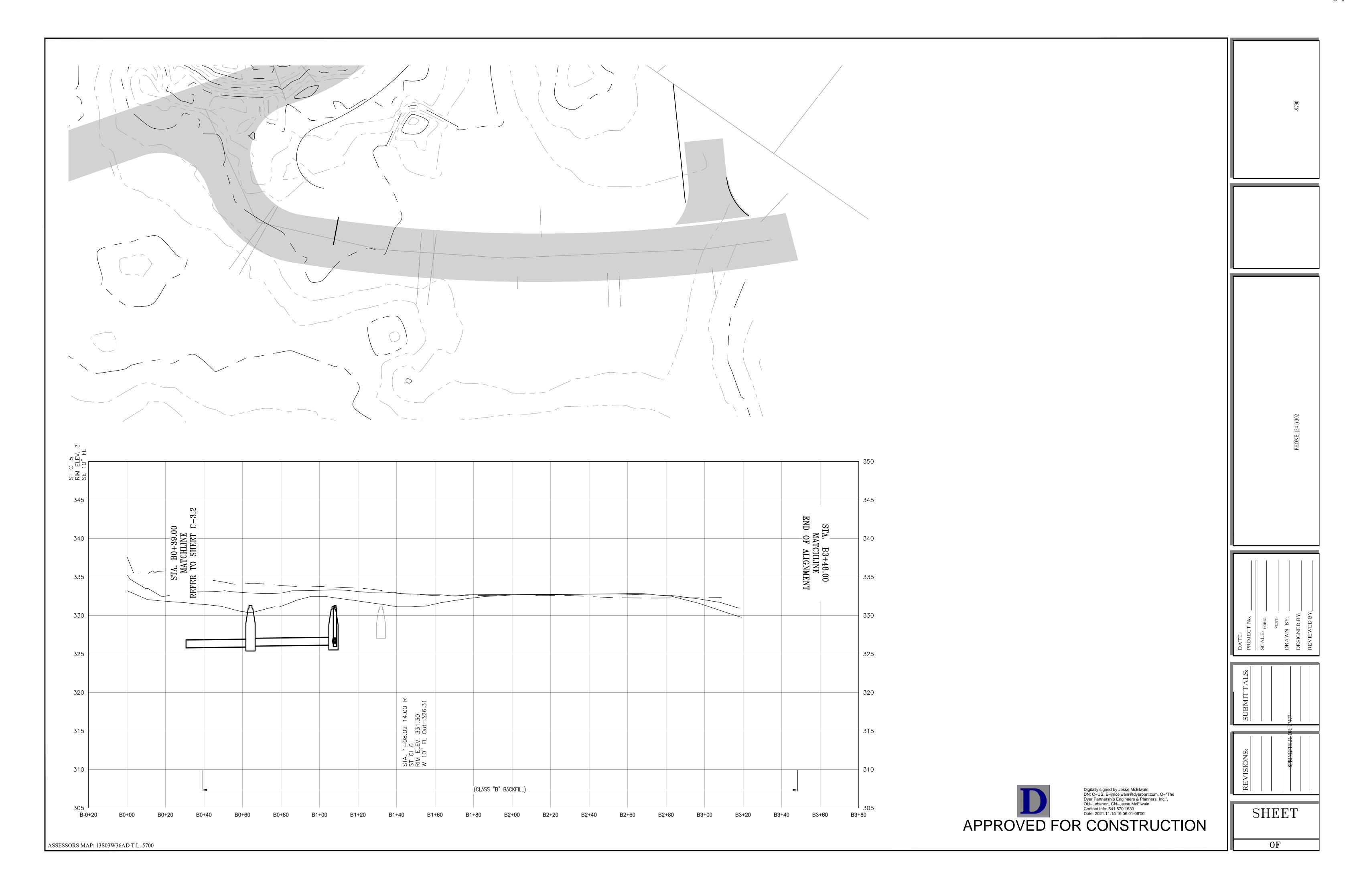


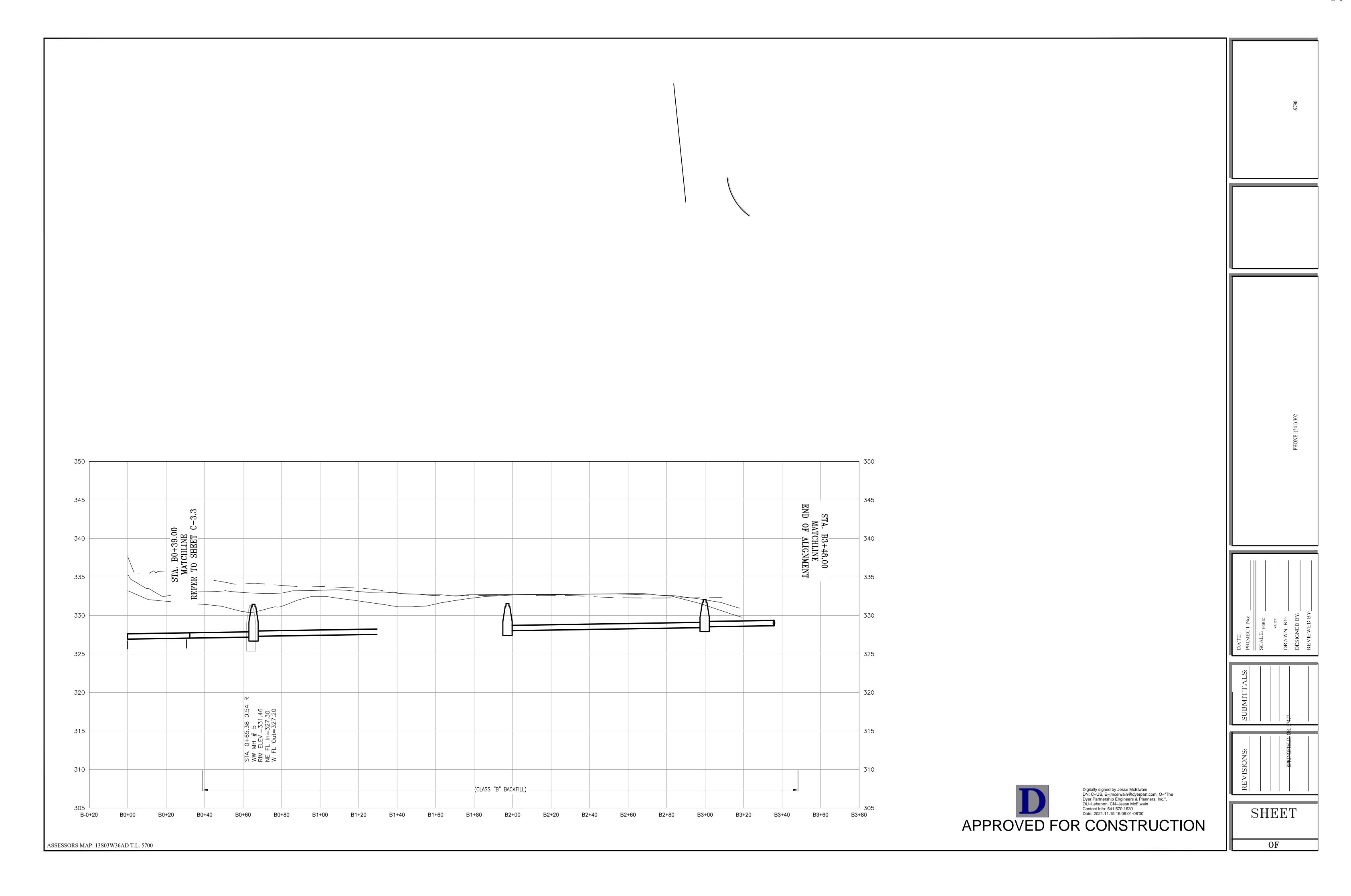


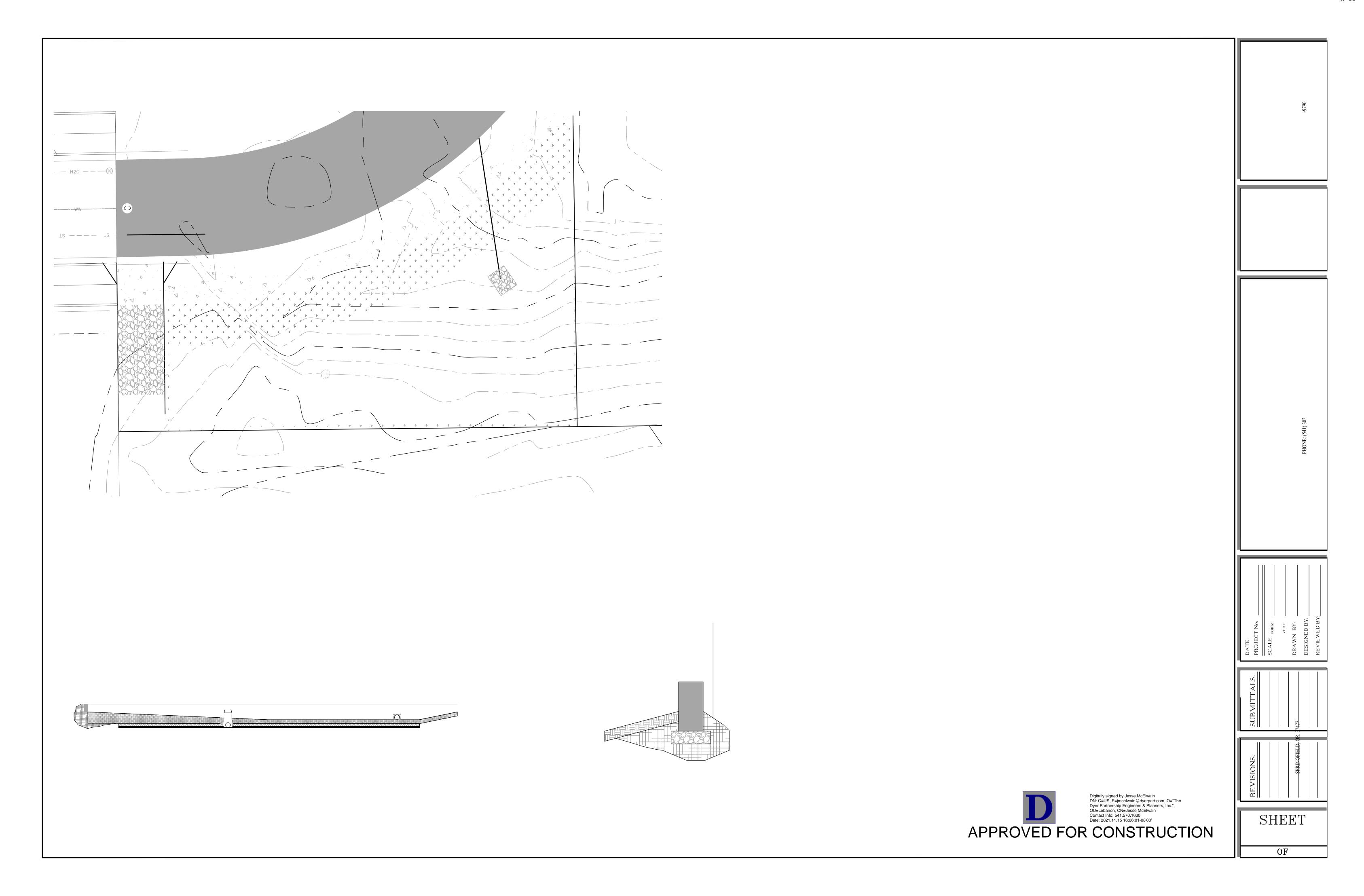


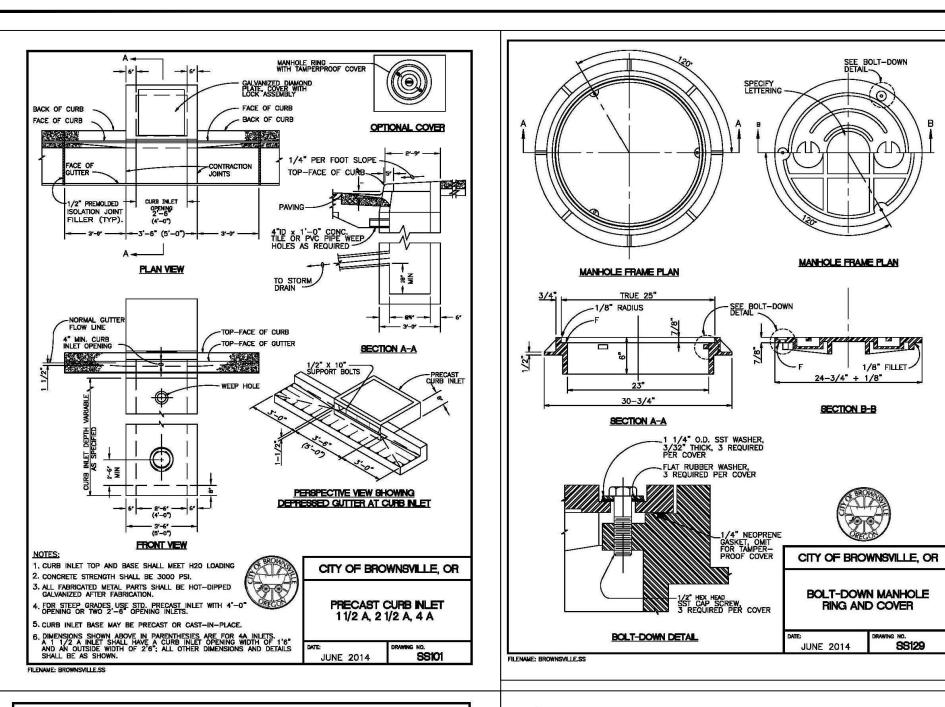


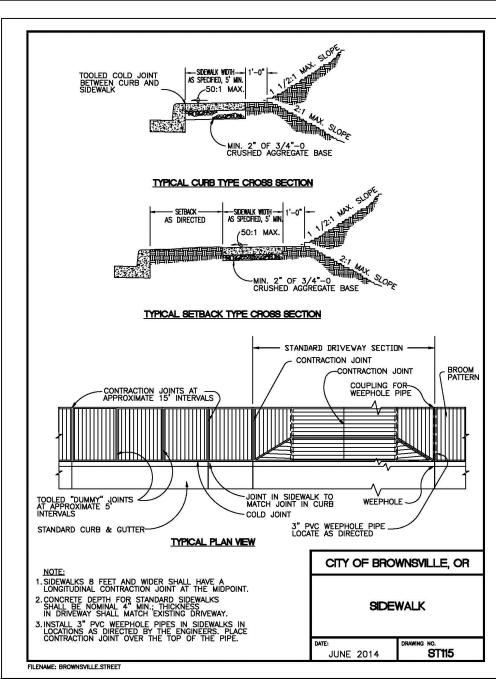


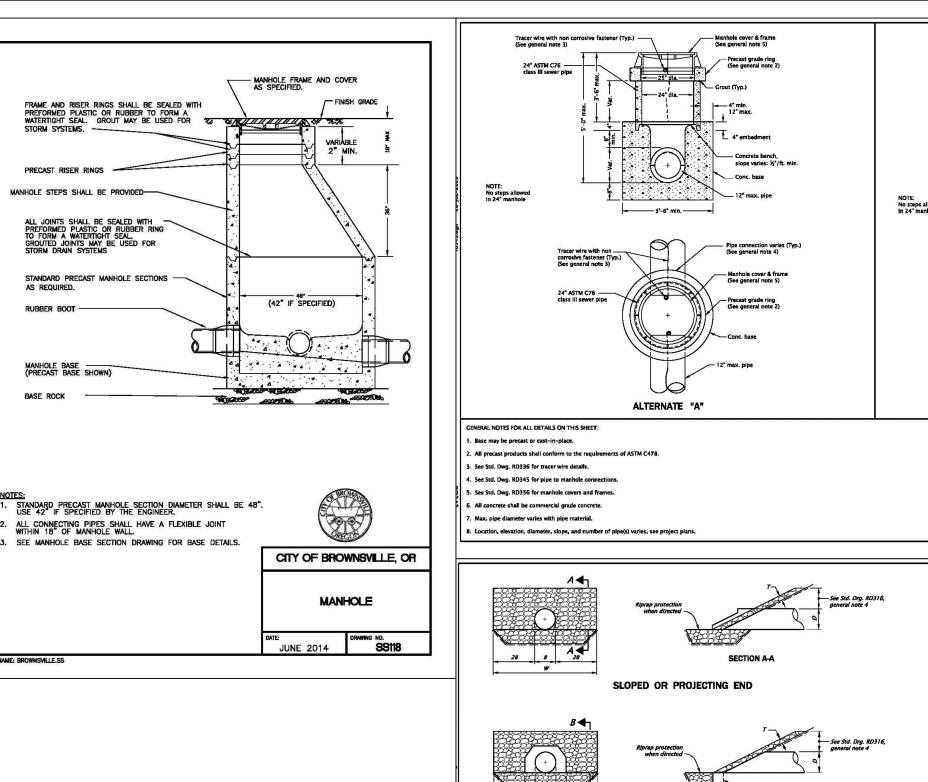


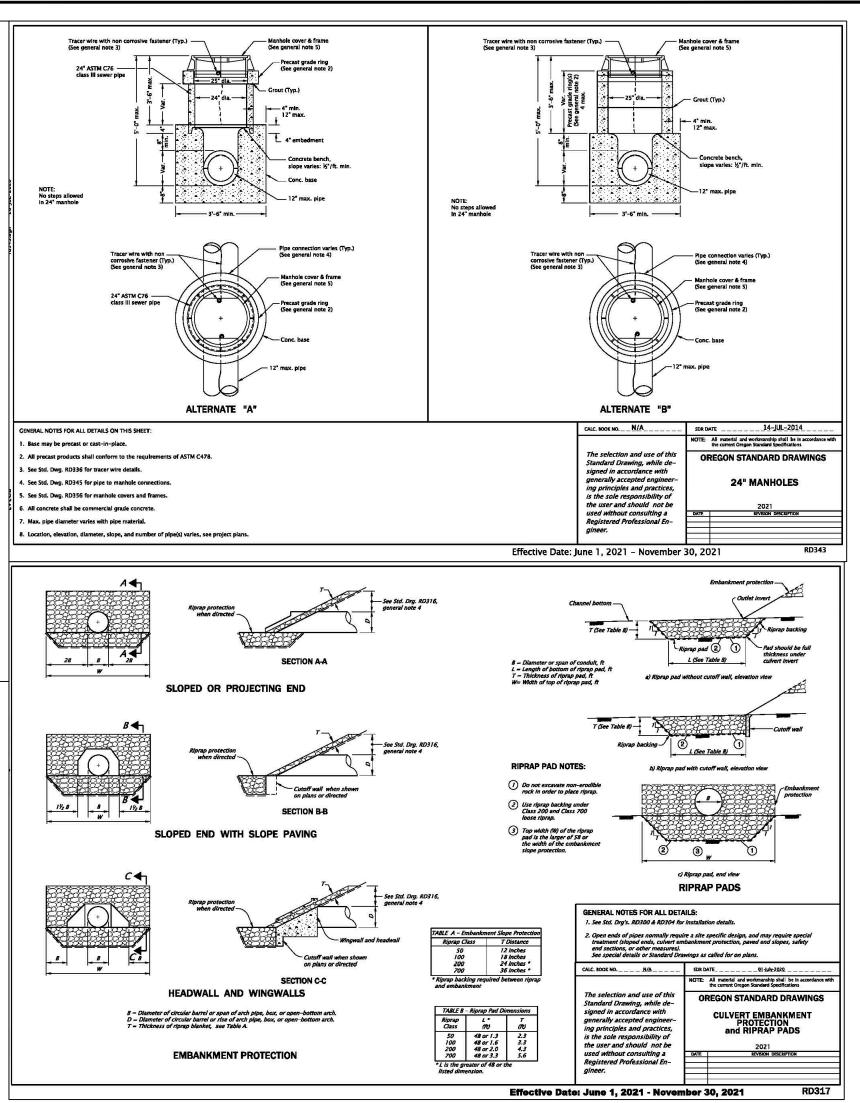


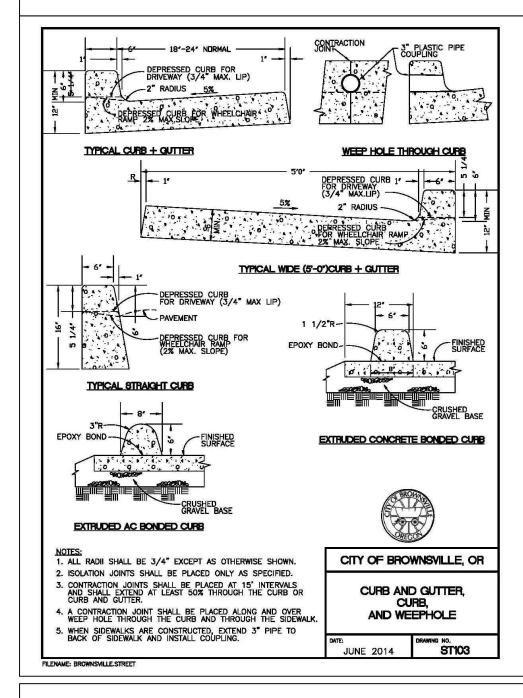


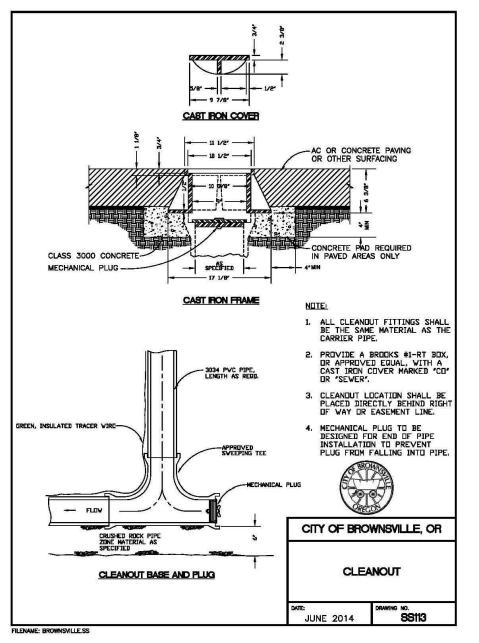


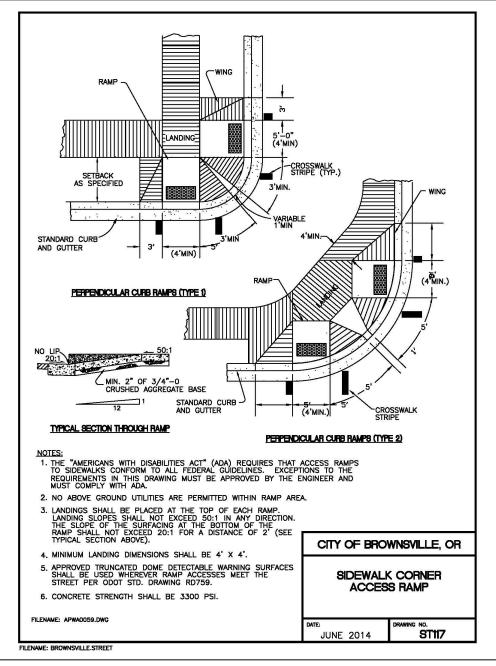


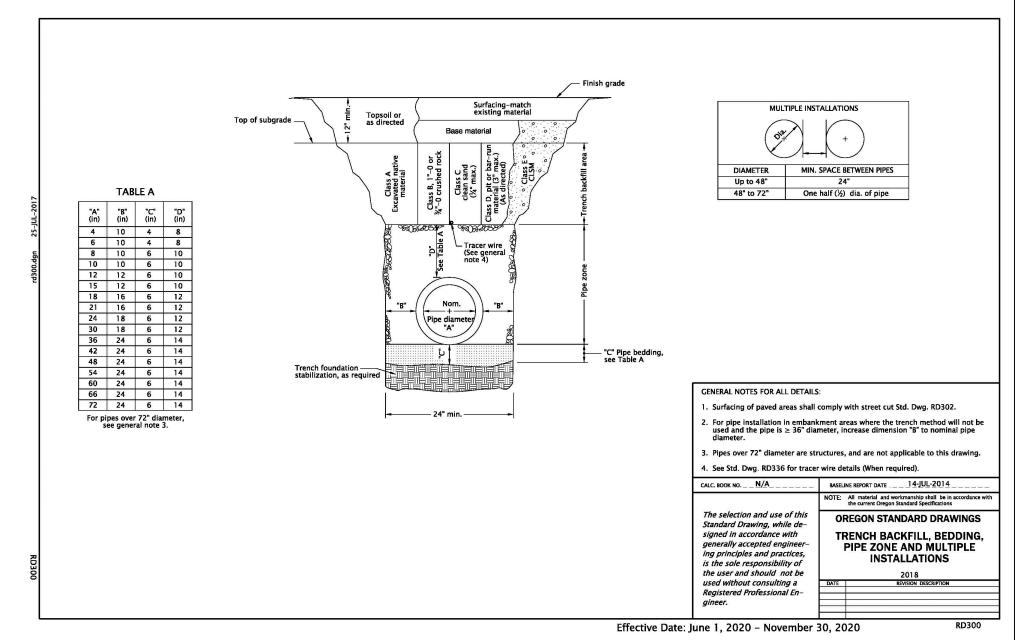


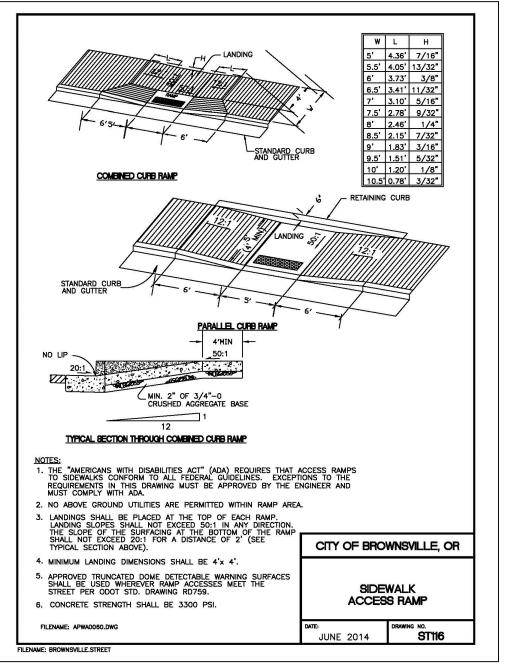




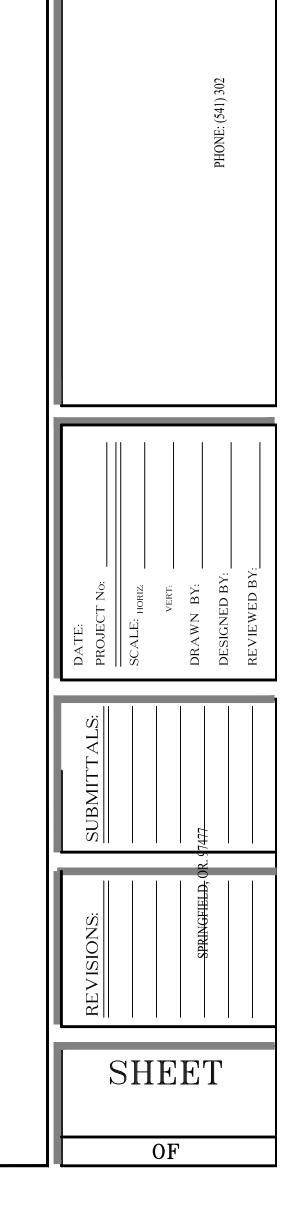


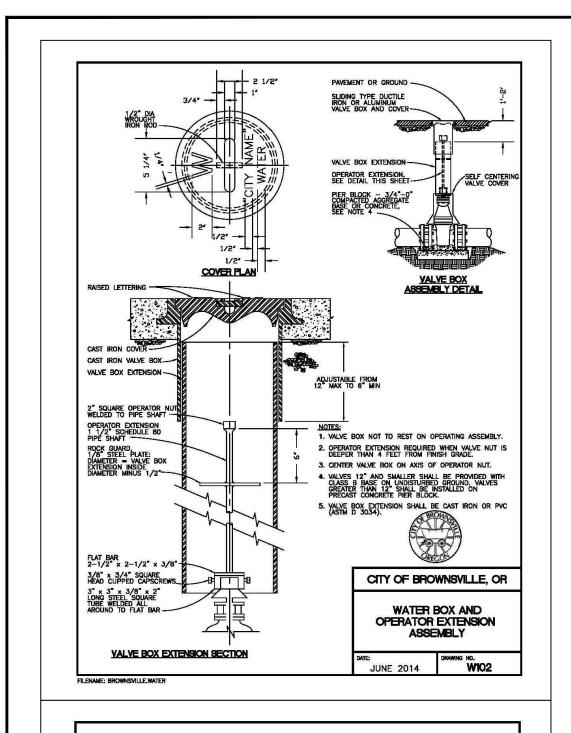


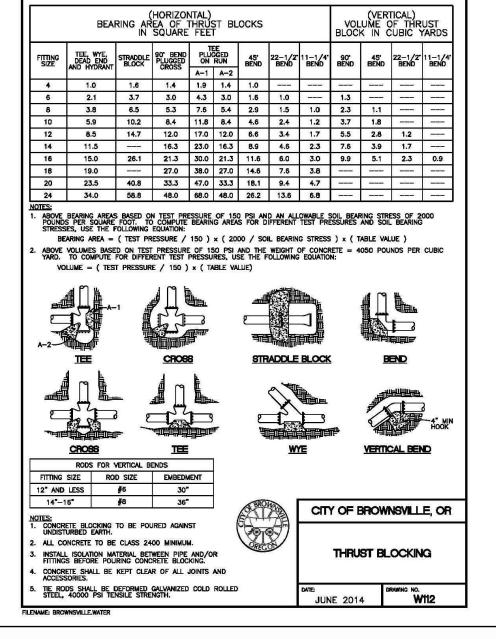


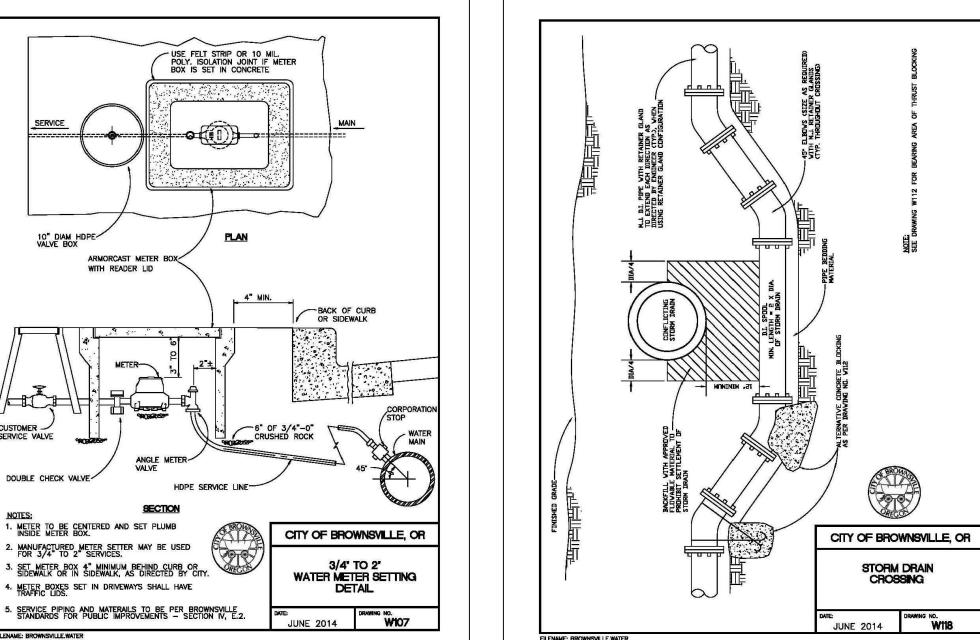


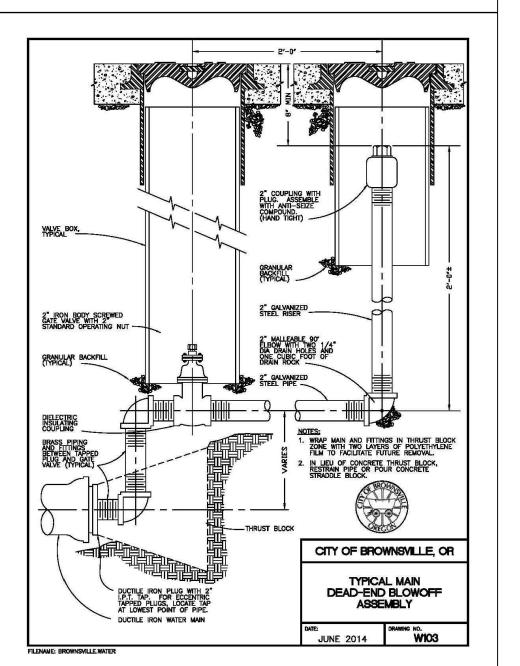


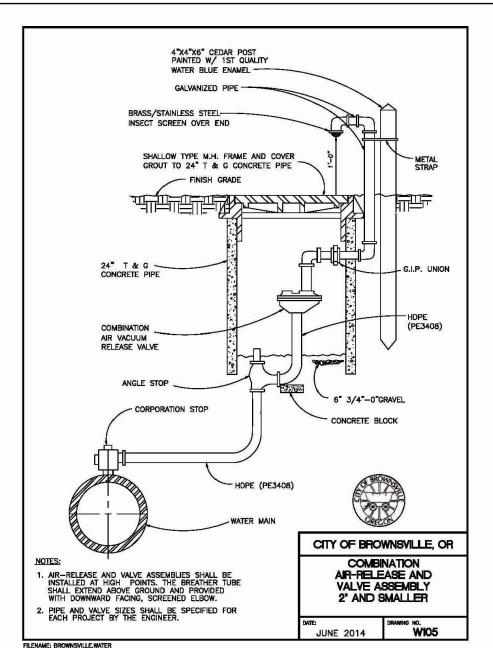


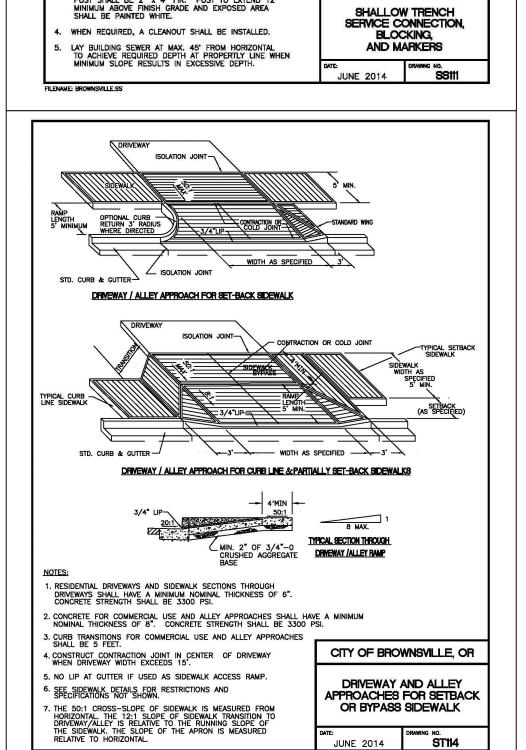


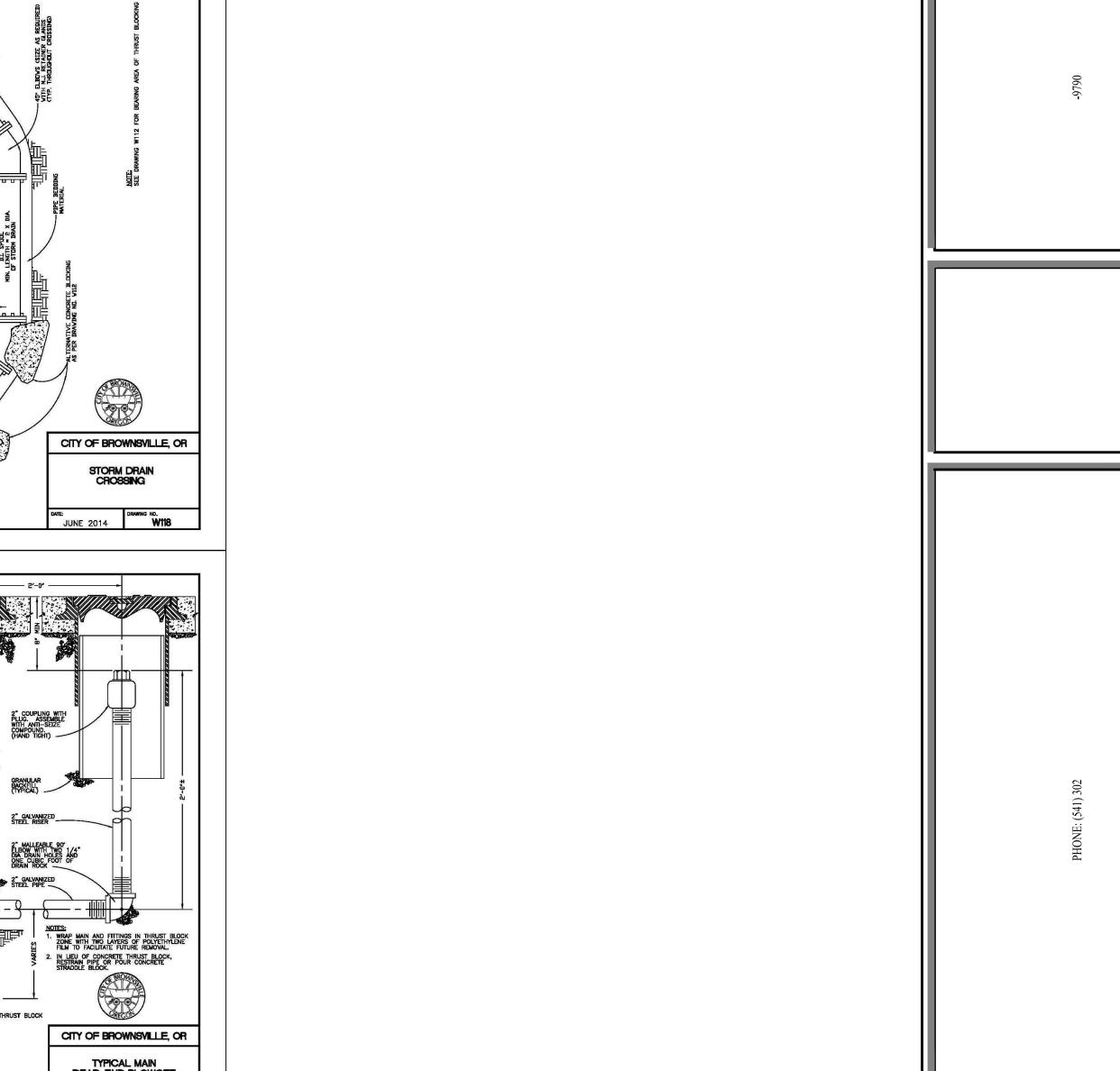














7. Every valve hydrostatically factory tested

An Air/Vacuum Valve has a large venting orifice and is used to exhaust large quantities of air from column when the pump is started. Once the line is filled, the Air/Vacuum Valve closes and remains

closed until the liquid is drained and pressure returns

Air/Vacuum Valves do not open to exhaust the small

pockets of air which collect in the line while it is operating under pressure. We highly recommend Automatic Air Release Valves (AARV) be used in

conjunction with Air/Vacuum Valves for maximum pipeline flow and pump efficiency. The AARV will eliminate constricting air pockets from forming at the

The minimal cost for the Automatic Air Release

loss through the pipeline. The result: energy cost

Series 140H available for high pressure service

specify operating pressure if below 20 psi (138 kpa). *See bulletin 586 - Air Valves for Vertical Turbine Pumps

immediately open to allow air to re-enter the line

and prevent a vacuum from developing.

Why and Where to Use Air/Vacuum Valves

high points of the pipeline.

Manufactured to AWWA C-512

ISO flange connections available

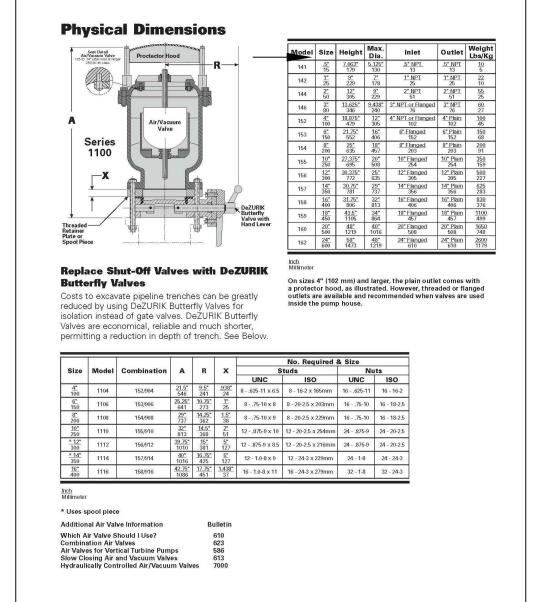
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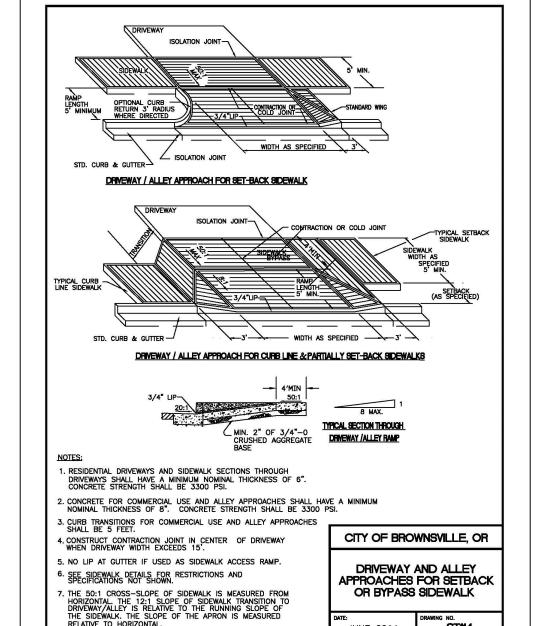


4" (100 mm) through 30" (750 mm) standard outlets

Optional threaded or flanged outlets available.

are plain with a steel protector hood.





WITH READER LID

- BUILDING SEWER PIPE SIZE AS SPECIFIED

MAGNETIC TAPE
GREEN W/ RED LETTERS (WASTEWATER)

MINIMUM DEPTH AT RIGHT OF WAY OR EASEMENT LINE SHALL BE 4 FEET.

MARKER POSTS AND BLOCKING SHALL BE TREATED WOOD. POST SHALL BE 2" x 4" FIR. POST TO EXTEND 12" MINIMUM ABOVE FINISH GRADE AND EXPOSED AREA SHALL BE PAINTED WHITE.

WHEN REQUIRED, A CLEANOUT SHALL BE INSTALLED.

BACKFILL 2X4
AGAINST PLUG TO
PREVENT PLUG
BLOWOFF & SECURE
2X4 IN PLACE WITH
TRENCH BACKFILL

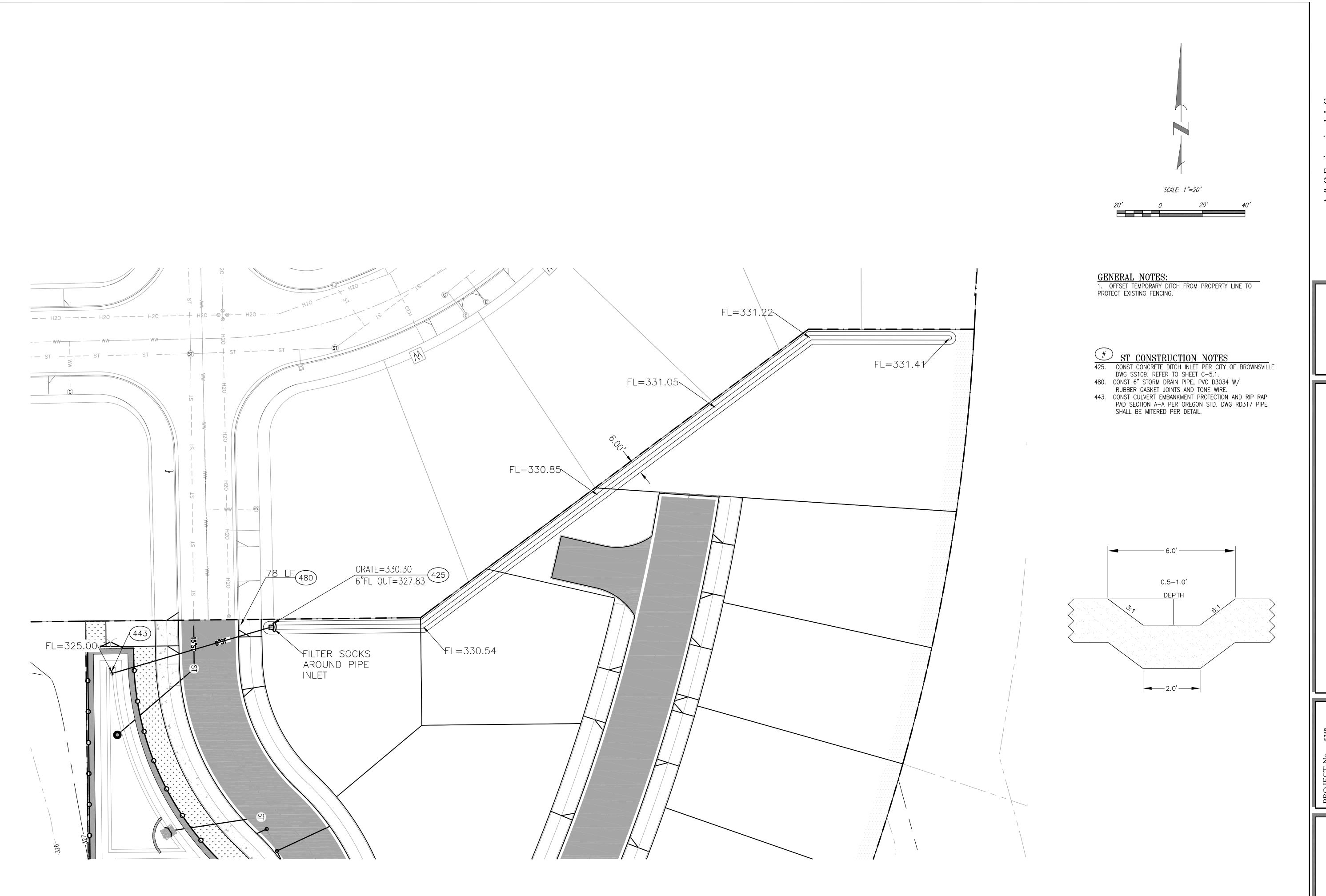
CITY OF BROWNSVILLE, OR

DOUBLE CHECK VALVE

SHEET

of

APPROVED FOR CONSTRUCTION



A & O Engineering L.L.C.

CIVIL ENGINEERING & SITE
DEVELOPMENT CONSULTING
380 Q ST. SUITE 200
SPRINGFIELD, OR. 9747
PHONE: (541) 302-9790
scott@aoengineering.biz

OREGON STATES 12/31/22

for for Rivers Edge Phase 3

DRAWN BY: KRC
REVIEWED BY: SDM
PROJECT DATES:

SHEET C-1.0