2020 - 1: 42pm Plotted By: Juss C: | Users | Juss | Deaktop | xref | 19co10001-Cov Leg Det Woterdwg

SUMMIT ORCHARD LOT 4 INFRASTRUCTURE IMPROVEMENTS

WATER MAIN PLANS

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI SEC.31 TWP. 48N, RNG. 31W SEC.36 TWP. 48N, RNG. 32W

GENERAL NOTES

UTILITIES: Locations of existing utilities are shown for information only and are not guaranteed to be either occurate or complete. It is the Contractor's responsibility to contact all utilities and obtain utility staking prior to construction. No utilities on private property are shown. Contact Missouri One Call at 1–800–016—RTL, =800–346—RT-483.

2. SOIL BORINGS: No soil boring information is included in the specifications. If the Contractor deems soils investigation necessary for use in preparing his bid, he shall do so at his own expense, and he shall be responsible for any and all permits, rights of entry, and restoration in accordance with the specifications.

- 3. DEVIATIONS FROM PLANS OR SPECIFICATIONS: Any deviations in the location or number of facilities noted for installation on these plans, or extension or rerouting the utilities constituted under these plans, requires the written authorization of the Owner's Representative before proceeding. Items installed in conflict with the plans and specifications and without such approved with not be approved for payment.
- 4. SITE ACCESS: The Controctor shall provide access to the work at any time for the owner, engineer, and state or local officials. The Contractor shall maintain access to existing parking lots and shall adhere to MUTCD requirements in Part 6 Temporary Traffic Control for maintaining traffic control during construction.
- 5. SAFETY: Safety on the job is the sole responsibility of the Contractor. The Contractor is responsible to replace and maintain proper barricades and/or fences to prevent injury to his and other personnel and the public. The Contractor shall leave such barricades and/or fences in place at any time he is absent from the job site.
- 6. All pavements, sidewalks, abandoned sewers, pipelines, excess earthwork, or other obstructions to construction that are removed, shall become the property of the Contractor unless specifically noted, and shall be disposed of by the Contractor in accordance with state regulations.
- 7. Removals of portions of pavement, curb gutters, sidewalk, and other similar improvements shall be removed to an existing joint if one is within 18". If there is no existing joint, a joint shall be sawed to minimum depth of 2" with true line and vertical face prior to removal.
- 8. All power poles, telephone poles, guy wires, and other utilities shall be relocated by owner of the facility unless noted otherwise.
- The Contractor shall be responsible for the replacement of any property manuments (irons) removed or destroyed by his construction. Manuments being reset shall be placed by a Professional Land Surveyor, licensed to practice in the State of Missouri.
- 10. All disturbed areas shall be fertilized, seeded, and mulched in accordance with the specifications. The Contractor shall control all sediment run-off from leaving the project by using control features such as sill fences, or other means as directed by the City of Lee's Summit Design and Construction Manual, Ordinance No. 5813, Section 5100.
- LAYOUT and DIGITAL DRAWINGS (civil) will be available to the successful contractor after award of the contract upon their request. Digital info will be in ACAD 2013 format.





800-464-7928

UTILITY CONTACTS

LOCATES: MISSOURI ONE CALL SYSTEM	811/800-DIG-RITE
WATER & SEWER: CITY OF LEE'S SUMMIT	816-969-1940
ELECTRIC: KANSAS CITY POWER & LIGHT	816-471-5275
GAS: SPIRE	816-969-2298
CABLE TV: COMCAST CABLEVISION TIME WARNER	816-795-1100 816-358-8833



SITE LOCATION MAP

APPROVED RECORD
DRAWING
These plans have been reviewed for accuracy by the Development
Services Staff

SHEET INDEX:

C001 COVER C002 OVERALL PLAN/NOTES C301-C303 WATER MAIN PLAN/PROFILE C501 DETAILS

DEVELOPER

Townsend Summit, LLC 11311 McCormick Road, Suite 470 Hunt Valley, Maryland 21031 PH (816) 251-4100 CONTACT: Steve Rich

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL, ORDINANCE NO. 5813. PORTIONS OF THE KANSAS CITY ARMS SPECIFICATIONS HAVE BEEN INCORPORATED INTO THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL STATE FIRM AUTHORITY.

PREPARED & SUBMITTED BY:



Summary of Quantities					
Item No	Description	Description Units			
1	8" PVC C900 Water Main	LF	1348		
2	Fire Hydrant Assembly	EA	2		
3	8" Gate Valve & Box	EA	2		
4	Directional Drill 8" Water Main	LF	100		
5	Connect to Existing Main	EA	2		

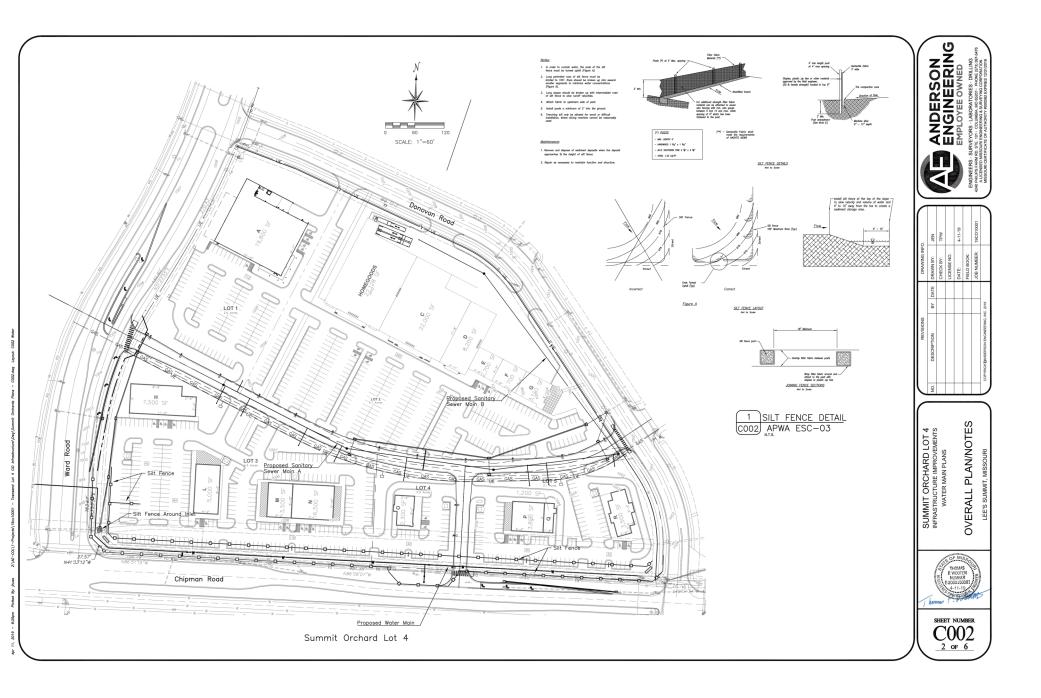


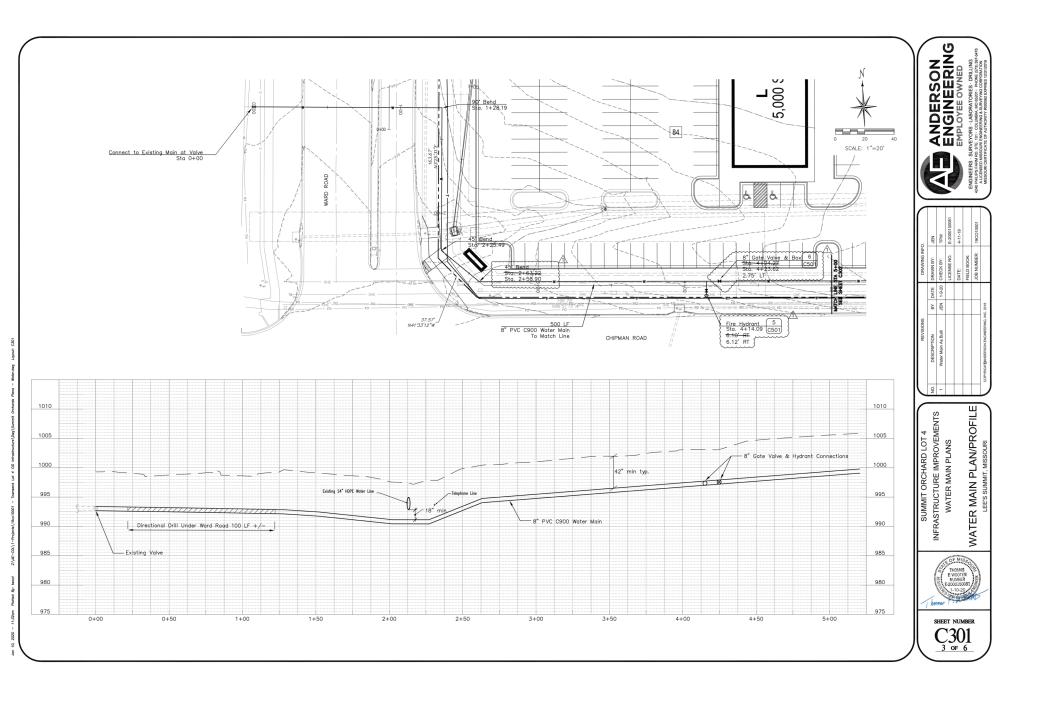
	JEN	TPW	E-2000150081	4-11-2019		19CO10001	
DRAWING INFO.	DRAWN BY:	JEN 1-9-20 CHECK BY:	LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER:	
	DATE	1-9-20					
l	ВУ	JEN					C. 2018
REVISIONS	DESCRIPTION	Water Main As Built					COPYRIGHTDANDERSON ENGINEERING, INC. 2018
Ĺ	9	-					

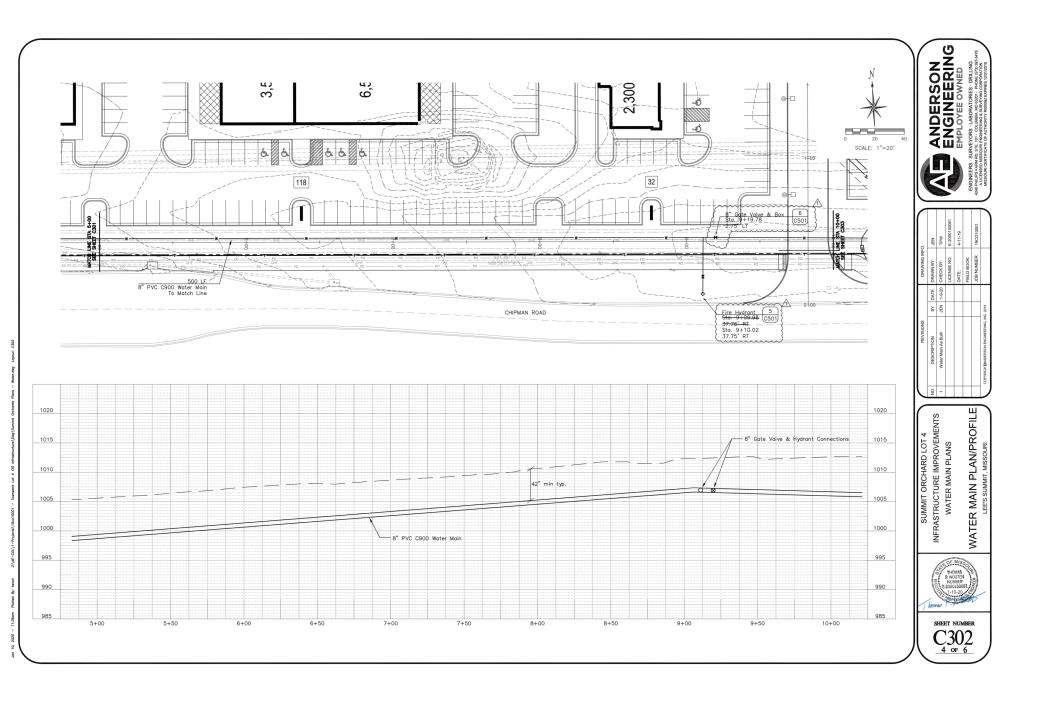
SUMMIT ORCHARD LOT 4
INFRASTRUCTURE IMPROVEMENTS
WATER MAIN PLANS
COVER

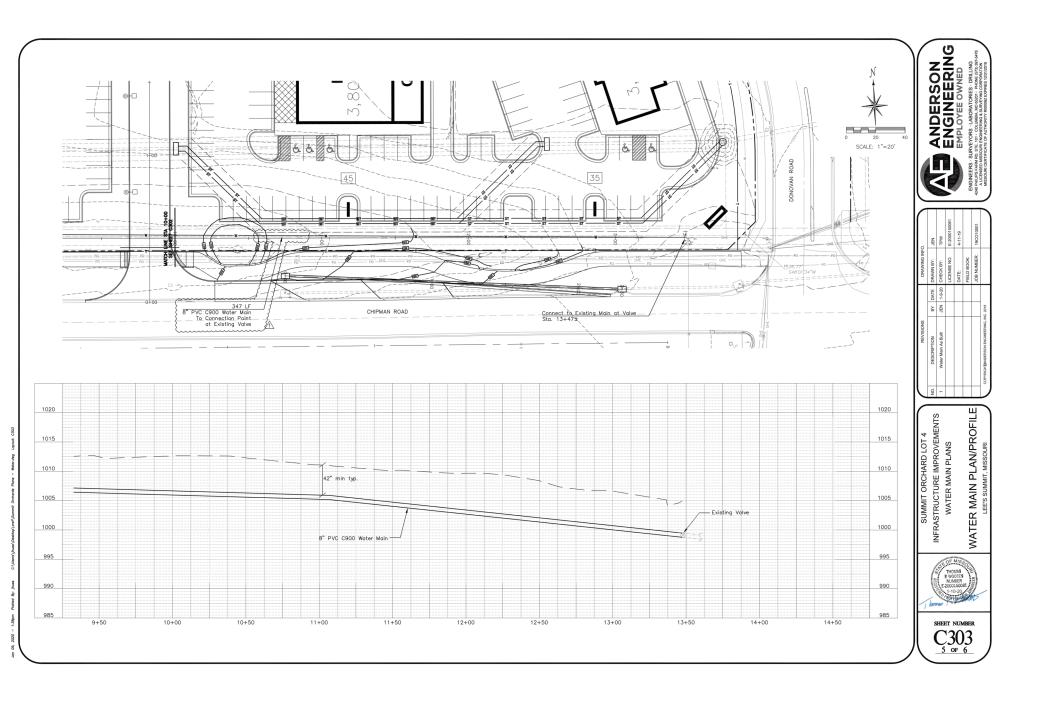
SHEET NUMBER
COO1
1 OF 6

TELEPHONE: SBC/AT&T

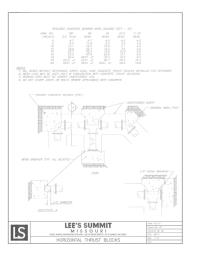






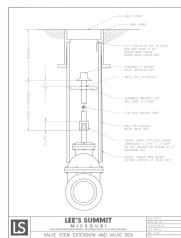




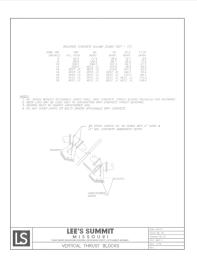




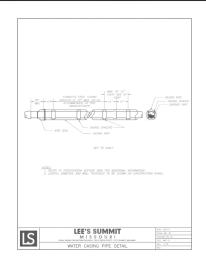
LEE'S SUMMIT



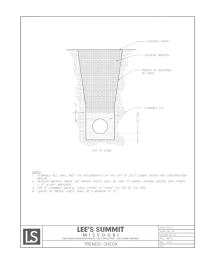




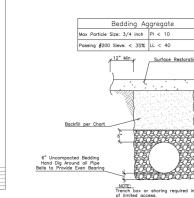
2 VERTICAL THRUST BLOCKS (C501) N.T.S.



3	WATER	CASING	PIPE	DETAIL	
C501	N.T.S.				







Paved areas within street or alley right of way	Trenches 24" on less in width: Type A flowable fill Trenches 24"-48" wide: Type A flowable fill or dense, well-graded aggregate base material. Aggregate base material shall	95% Standard Proctor
	registed base indeed a sind meet the requirements for MoDOT Types 1 or 5, or APMA 2202.2 Trenches greater than 48" wide: Suitable material as specified for earth embankment in APWA Standard Specifications, Section 2102.2.C.	
Lawn	Suitable material as specified for earth embankment in APWA Standard Specifications, Section 2102.2.C Suitable backfill material may also be other trench backfill material (flowable fill) or aggregate base) depending on site conditions, trench widths, or at the direction of the City's on-site Inspector.	90% Standard Proctor

Compaction

Requirement



Trench Location



I		ı	l		l
	REVISIONS	l	Г	DRAWING INFO.	۰
õ	DESCRIPTION	ВУ	DATE	DRAWN BY:	ΛEΝ
				CHECK BY:	TPW
				LICENSE NO.	E-20001
				DATE:	4-11-201
				FIELD BOOK:	
				JOB NUMBER:	19CO10
L	COPYRIGHTMANDERSON ENGINEERING, INC. 2018	C. 2018			

SUMMIT ORCHARD LOT 4
INFRASTRUCTURE IMPROVEMENTS
WATER MAIN PLANS
DETAILS



1020 – 1:45cm Plotted By: Auss C. | Users | Auss | Deaktop | xref | 19co10001–Cov Leg Det Sanitary dwg Lo

SUMMIT ORCHARD LOT 4 INFRASTRUCTURE IMPROVEMENTS

SANITARY SEWER PLANS

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI SEC.31 TWP. 48N, RNG. 31W SEC.36 TWP. 48N, RNG. 32W

GENERAL NOTES

UTILITIES: Locations of existing utilities are shown for information only and are not guaranteed to be either occurate or complete. It is the Contractor's responsibility to contact all utilities and obtain utility staking prior to construction. No utilities on private property are shown. Contact Missouri One Call at 1–800–016—RTL, =800–346—RT-483.

 SOIL BORINGS: No soil boring information is included in the specifications. If the Contractor deems soils investigation necessary for use in preparing his bid, he shall do so at his own expense, and he shall be responsible for any and all permits, rights of entry, and restoration in accordance with the specifications.

- 3. DEMAINOR FROM PLANS OR SPECIFICATIONS: Any deviations in the location or number of facilities noted for installation on these plans, or extension or reroruting the utilities constructed under these plans, requires the written outhorization of the Owner's Representative before proceeding. Items installed in conflict with the plans and specifications and without such approval will not be approved for proyment.
- 4. SITE ACCESS: The Contractor shall provide access to the work at any time for the owner, engineer, and state or local officials. The Contractor shall maintain access to existing parking lots and shall adhere to MUTCD requirements in Part 6 Temporary Traffic Control for maintaining traffic control during construction.
- 5. SAFEIY: Safety on the job is the sole responsibility of the Contractor. The Contractor is responsible to replace and maintain proper barricades and/or fences to prevent injury to his and other personnel and the public. The Contractor shall leave such barricades and/or fences in place at any time he is absent from the job site.
- 6. All povements, sidewalks, abandoned sewers, pipelines, excess earthwork, or other obstructions to construction that are removed, shall become the property of the Contractor unless specifically noted, and shall be disposed of by the Contractor in accordance with state regulations.
- 7. Removals of portions of povernent, curb gutters, sidewalk, and other similar improvements shall be removed to an existing joint if one is within 18". If there is no existing joint, a joint shall be sawed to minimum depth of 2" with true line and vertical face prior to removal.
- 8. All power poles, telephone poles, guy wires, and other utilities shall be relocated by owner of the facility unless noted otherwise.
- The Contractor shall be responsible for the replacement of any property manuments (irons) removed or destroyed by his construction. Manuments being reset shall be placed by a Professional Land Surveyor, licensed to practice in the State of Missouri.
- 10. All disturbed areas shall be fertilized, seeded, and mulched in accordance with the specifications. The Contractor shall control all sediment run-off from leaving the project by using control features such as silt fences, or other means as directed by the City of Lee's Summit Design and Construction Manual, Ordinance No. 5813, Section 5100.
- LAYOUT and DIGITAL DRAWINGS (civil) will be available to the successful contractor after award of the contract upon their request. Digital info will be in ACAD 2013 format.



TELEPHONE: SBC/AT&T



800-464-7928

UTILITY CONTACTS

LOCATES: MISSOURI ONE CALL SYSTEM	811/800-DIG-RITE
WATER & SEWER: CITY OF LEE'S SUMMIT	816-969-1940
ELECTRIC: KANSAS CITY POWER & LIGHT	816-471-5275
GAS: SPIRE	816-969-2298
CABLE TV: COMCAST CABLEVISION TIME WARNER	816-795-1100 816-358-8833



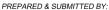
SHEET INDEX:

C001 COVER C002 OVERALL PLAN/NOTES C201-C202 LINE A PLAN/PROFILE C203-C204 LINE B PLAN/PROFILE C501 DETAILS

DEVELOPER

Townsend Summit, LLC 11311 McCormick Road, Suite 470 Hunt Valley, Maryland 21031 PH (816) 251-4100 CONTACT: Steve Rich

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL, ORDINANCE NO. 5813. PORTIONS OF THE KANASS CITY APMA SPECIFICATIONS HAVE BEEN INCORPORATED INTO THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.



ANDERSON ENGINEERING, INC.
COLUMBIA, MISSOURI

TROMS
ROOMS
R

SITE LOCATION MAP

APPROVED RECORD DRAWING

These plans have been reviewed for accuracy by the Development Services Staff

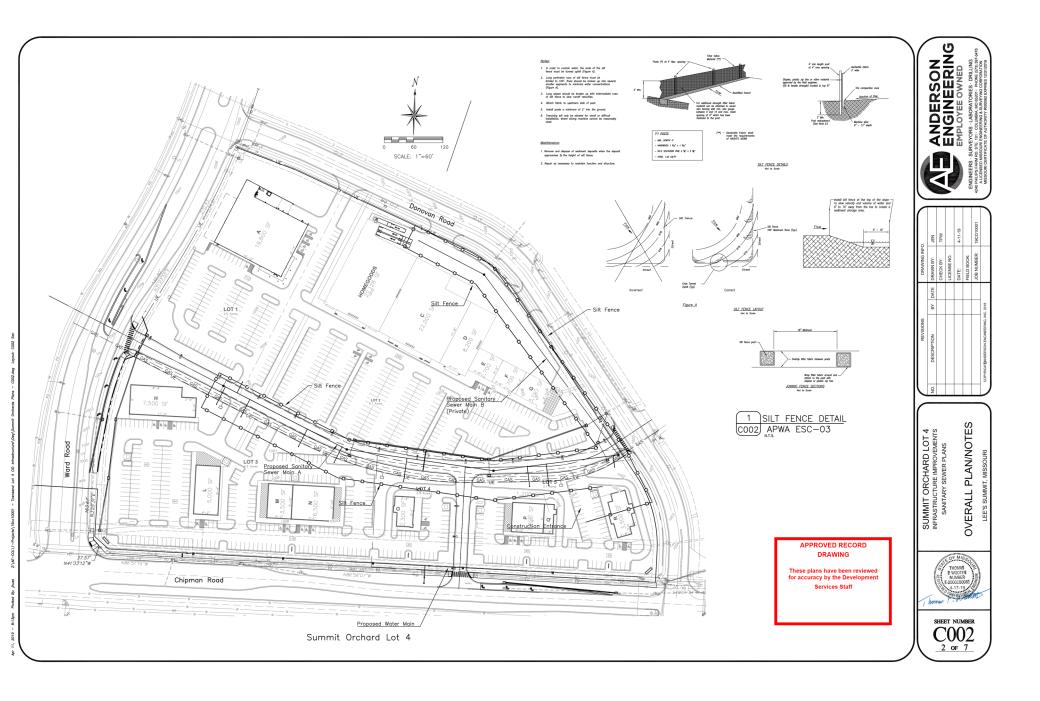
	Summary of Quantities	3	
Item No.	Description	Units	Quantity
1	8" PVC Sewer	LF	834~\1
2	6" PVC Sewer	LF	560 612
3	6" DIP Sewer	LF	40 0
4	Sanitary Manhole	EA	*~~
5	Sanitary Service Connection - Line A	EA	9
6	Sanitary Service Connection - Line B	EA	(\$ 4)
7	Sanitary Cleanout	EA	1
8	Connection to Existing Manhole	EA	2

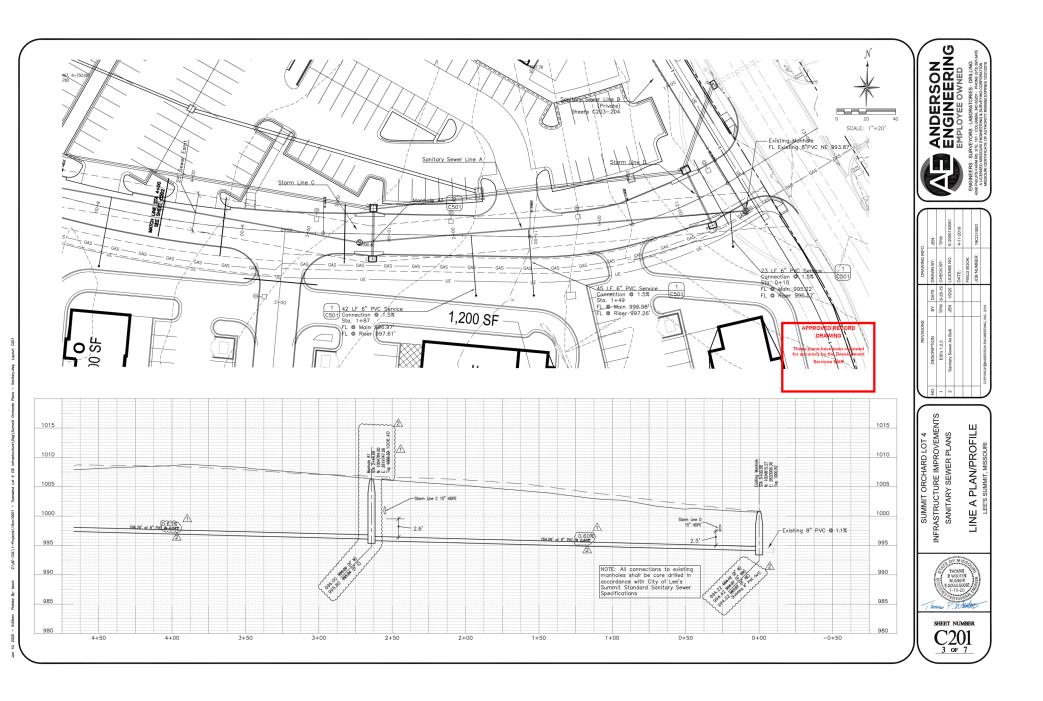


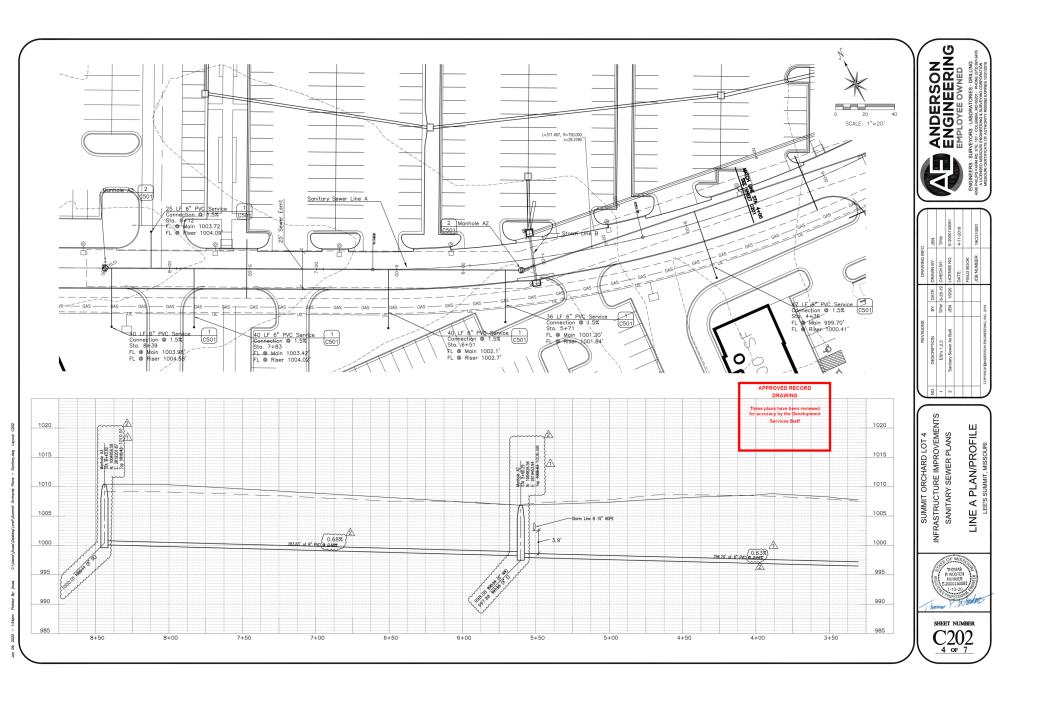
	ı	ſ		1
REVISIONS			DRAWING INFO.	ć
DESCRIPTION	ВУ	DATE	BY DATE DRAWN BY:	JEN
ESI's 1,2,3	TPW	6-28-19	TPW 6-28-19 CHECK BY:	TPW
Sanitary Sewer As Built	JEN	1-9-20	JEN 1-9-20 LICENSE NO.	E-2000150081
			DATE:	4-11-2019
			FIELD BOOK:	
			JOB NUMBER:	19CO10001
COPYRIGHT BANDERSON ENGINEERING, INC. 2018	C. 2018)
	ı	ı		

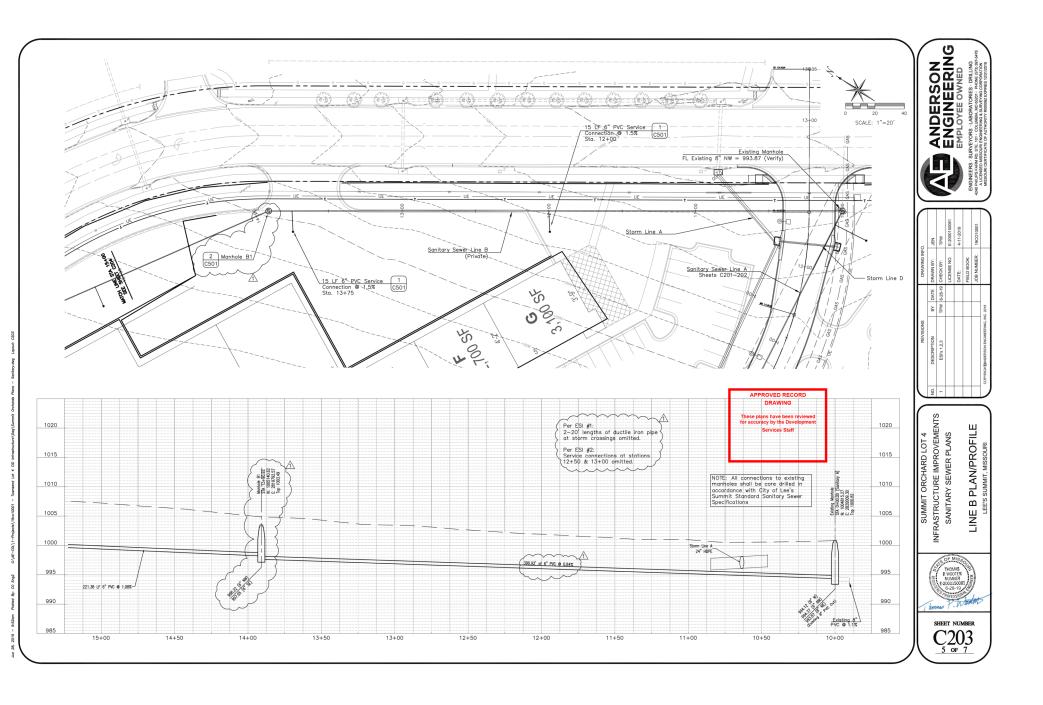
SUMMIT ORCHARD LOT 4
INFRASTRUCTURE IMPROVEMENTS
SANITARY SEWER PLANS
COVER

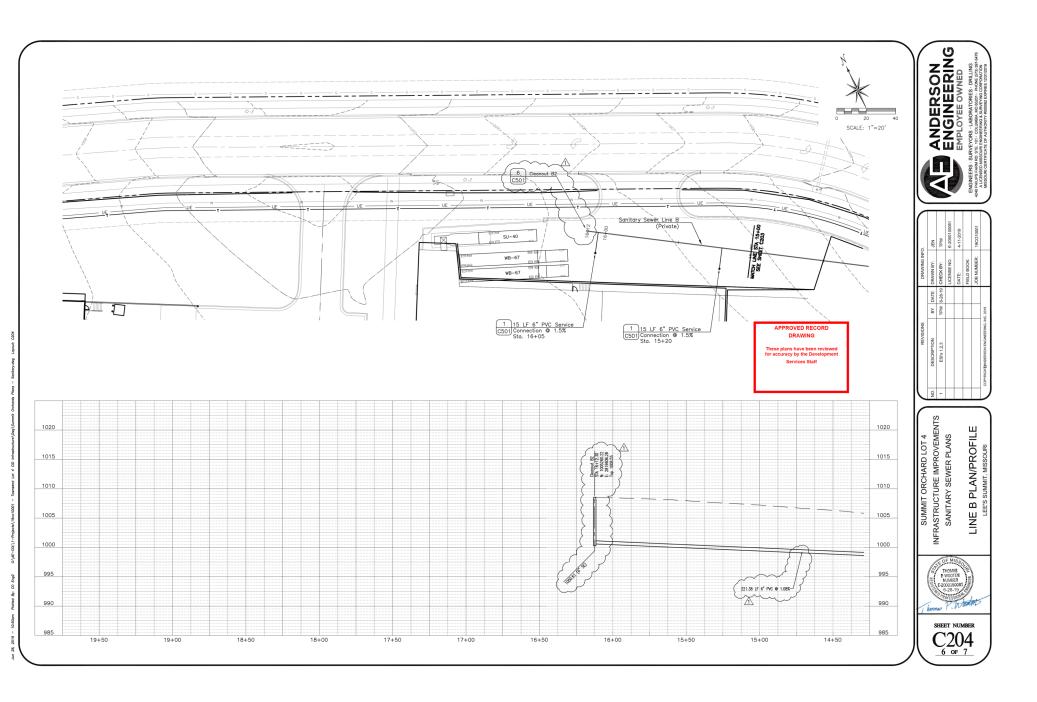
SHEET NUMBER
COO1

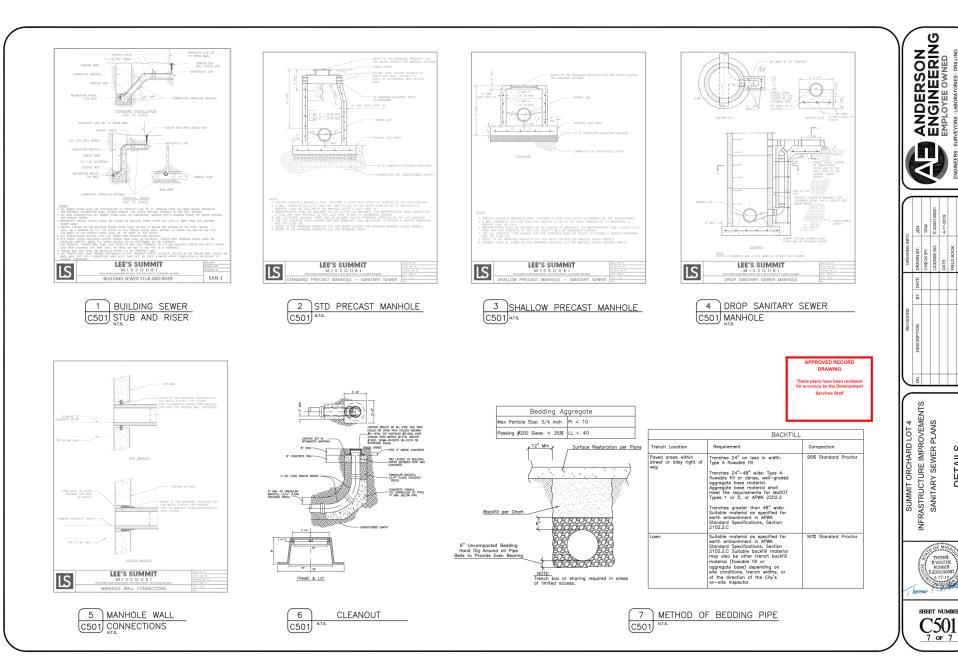




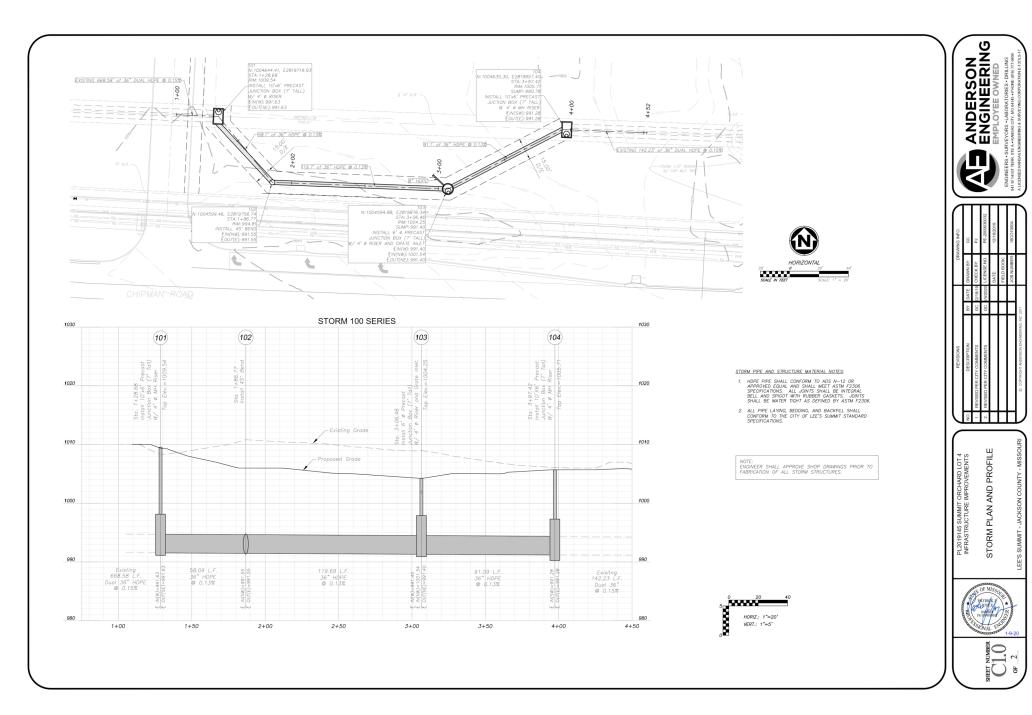






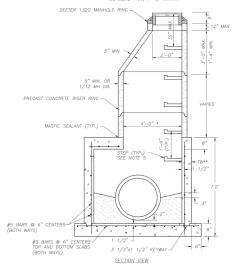


DETAILS

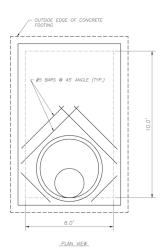


NOTES:

- 1. ALL CONCRETE SHALL BE 4000 psi.
- 2. JUNCTION BOX CONSTRUCTION NOTES SHALL LIST THE "L" DIMENSION FIRST, THE "W" DIMENSION SECOND, AND THE "H" DIMENSION THIRD.
- 4. THE MINIMUM DIMENSION BETWEEN TOP OF PIPE AND TOP OF BOX SHALL BE 1'-6" (TYPICAL ALL
- 5. STEPS SHALL COMPLY WITH THE CITY OF LEE'S SUMMIT PUBLIC WORKS APPROVED PRODUCT UST. THE TOP STEP SHALL BE NO MORE THAN 30" BELOW THE RIM ELEVATION AS SHOWN ON THE PLANS. THE REMAINING STEPS SHALL BE SPACED NO MORE THAN 1"—9" APART.



**NOTE: WALL THICKNESS (TW) SHALL BE 6" FOR STRUCTURES 0'-8' DEEP, AND 8" FOR STRUCTURES OVER 8' DEEP.



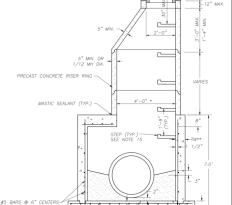
Junction Box

Not to Scale

NOTES

- 1. ALL CONCRETE SHALL BE 4000 PSI.
- 2. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.

- STEEL INLET FRAME SPACERS SHALL BE PLACED AT EQUAL SPACINGS NOT TO EXCEED 4'-0".
- 6. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
- 7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS, 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8"$ SHALL BE PERMITTED.
- 8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- 12. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFER SIDEWALLS ARE POUNED BEFORE REMOVAL, AND AFER REMOVAL SHALL BE MACEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- 13. RCP CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2" OF THE STRUCTURE.
- 14. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH "("-"-"+") AND ("W"+"-") LESS THAN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED.
- 15. STEPS SHALL COMPLY WITH THE CITY OF LEE'S SUMMIT PUBLIC WORKS APPROVED PRODUCTS LIST. THE TOP STEP SHALL BE NO MORE THAN 30° BELOW THE RIM ELEVATION AS SHOWN ON THE PLANS. THE REMAINING STEPS SHALL BE SPACED NO MORE THAN ""-"9" APPLAY



CIRCULAR GRATE -

PLAN VIEW

**NOTE: WALL THICKNESS (TW) SHALL BE 6" FOR STRUCTURES 0'-8' DEEP, AND 8" FOR STRUCTURES OVER 8' DEEP.

3 1/2"x1 1/2" KEYWAY SECTION VIEW

Grate Inlet Not to Scale

#5 BARS @ 6" CENTERS-TOP AND BOTTOM SLABS (BOTH WAYS)

ON IRING RS(문론 ⊒፴◊ A TO TO

U	•	_	_		I N	941 W
DRAWING INFO.	GC GC	PJ	PE-2009030032	12/18/2019		18CO10004
DR	DRAWN BY:	CHECK BY:	LICENSE NO.	DATE:	FIELD BOOK:	JOB NUMBER:
	DATE	2/18/19	0202/6/			
	ВУ	GC	GC		Ц	

