

SECTION 35-48-32 Scale 1" = 2000'

DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING
OPUS PROJECTS ON PROJECT CONTROL

BENCHMARKS:

BM #1: CHISELED "SQUARE " ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE. ELEV= 985.05

BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET. 25' +/- EAST OF CURB LINE AND ON - LINE WITH SOUTH CURBS OF NW LOWENSTEIN DRIVE AT 90' BEND IN ROAD.

ELEV= 971.06

<u>UTILITIES</u>

WATER & SANITARY SEWER
City of Lee's Summit Water Utilities
220 SE Green St
Lee's Summit, MO

ELECTRICITY
Kansas City Power and Light
Phone: 816.471.5275

Phone:816.969.1900

GAS
Missouri Gas Energy
PO Box 219255
Kansas City, Missouri 64141

TELEPHONE

A1&1 Phone: 800.288.2020

Time Warner Cable Phone: 816.222.5952

CABLE TV Comcast Phone: 816.795.1100

Time Warner Cable

Phone: 816.358.8833

Kansas City, Missouri 64141 Phone: 816.756.5252

Oil / Gas Well Note:

There is no visible evidence, this date, of abandoned oil or gas wells located within the property boundary, as identified in "Environmental Impact Study of Abandoned Oil and Gas Wells in Lee's Summit, Missouri.

Flood Plain Note

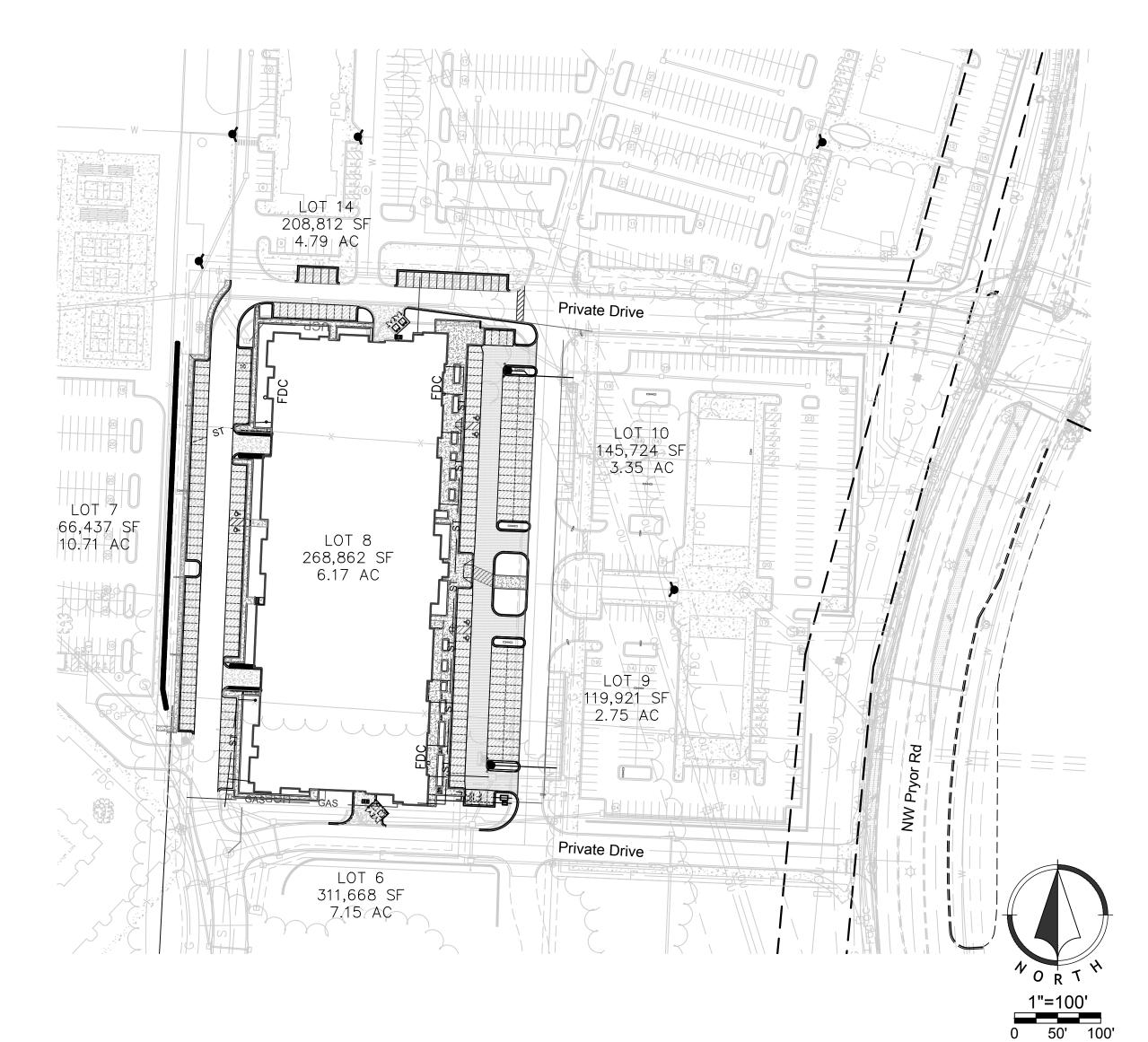
We have reviewed the F.E.M.A. Flood Insurance Rate Map Number 29095C0417G, revised January 20, 2017, this tract graphically lies in OTHER AREAS, ZONE X, defined as areas determined to be outside the 0.2% annual chance floodplain.



Final Development Plans For Summit At West Pryor

940 NW Pryor Road

Lee's Summit, Jackson County, Missouri



LEGEND

Future Curb and Gutter

	Existing Section Line		Proposed Right-of-Way
	Existing Right-of-Way Line		Proposed Property Line
	Existing Lot Line		Proposed Lot Line
	Existing Easement Line	— U/E —	Proposed Easement
	Existing Curb & Gutter		Proposed Curb & Gutter
	Existing Sidewalk		Proposed Sidewalk
	Existing Storm Sewer		Proposed Storm Sewer
	Existing Storm Structure	_	Proposed Storm Structure
- w/L w/L	Existing Waterline	A	Proposed Fire Hydrant
— GAS —— GAS ——	Existing Gas Main	W/L	Proposed Waterline
SAN	Existing Sanitary Sewer	ss	Proposed Sanitary Sewer
S	Existing Sanitary Manhole	S	Proposed Sanitary Manhole
	Existing Contour Major		Proposed Contour Major
	Existing Contour Minor		Proposed Contour Minor

	Index Of Sheets				
	Sheet Number	Sheet Title			
OWNER/DEVELOPER	C01	Title Sheet			
OWNER/DEVELOPER	C02	Existing Condition			
Pearl Real Estate	C03	General Layout			
919 N. East Street	C04	Site Dimension Plan			
Indianapolis, IN. 46202	C05	Site Dimension Plan			
CONSULTANT/APPLICANT	C06	Overall Grading Plan			
	C07	Spot Elevation Plan			
Renaissance Infrastructure Consulting 1815 McGee Street, # 200	C08	Spot Elevation Plan			
Kansas City, Missouri 64108	C09	Grading Details			
	C10	Grading Details			
	C11	Utility Plan			
	C12	Utility Plan			
	C13	Drainage Area Map			
	C14	Storm P&P			
	C15	Sanitary P&P			
	C16	Sanitary P&P			
	C17	Erosion Control I			
	C18	Erosion Control II			
	C19	Erosion Control III			
	C20	Typical Details-Gener			
	C21	Typical Details-Gener			
	C22	Typical Details-Storm			
	C23	Typical Details-Sanita			
	004	Turinal Dataila Watan			

Typical Details-Water

L01- L05 Landscape Plans

GENERAL NOTES

All construction shall be in accordance with the current City of Lee's Summit "Design and Construction Manual" as adopted by Ordinance 5813. Where discrepancies exist between the Final Development Plan and the Design and Construction Manual, the Design and Construction Manual shall govern.

- 1. The Contractor shall be responsible for obtaining insurance and securing all bonds, as required by the Contract Documents, the City of Lee's Summit, Mo., and all other governing agencies (including local, county, state, and federal authorities) having jurisdiction over the work proposed by these Construction Documents. The cost for all bonds, and insurance shall be the contractor's responsibility and shall be included in the bid for the work.
- 2. All existing utilities indicated on the drawings are according to the best information available to the engineer; however, all utilities actually existing may not be shown. The contractor shall be responsible for contacting all utility companies for an exact field location of each utility prior to any construction. All utilities, shown and not shown, damaged through the negligence of the contractor shall be repaired or replaced by the contractor at his/her expense.
- 3. The contractor shall be responsible for all damages to existing utilities, pavement, fences, structures, and other features caused by construction activities not designated for removal. The contractor shall repair all damages at his/her expense.
- 4. The demolition of existing pavement, curbs, structures, and all other features necessary to construct the proposed improvements, shall be performed by the contractor. All waste material removed during construction shall be disposed off the project site. The contractor shall be responsible for all permits for hauling and disposing of waste material. The disposal of waste material shall be in accordance with all local, state, and federal regulations
- 5. By use of these construction documents the contractor hereby agrees that he shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses, or damages related to the project.
- 6. The contractor shall be responsible for providing all signage, barricades, lighting, etc., as required for temporary traffic control during the construction of this project. Maintenance of the temporary traffic control devices will be the contractor's responsibility. All traffic control in conduction with construction in the right-of-way shall be in conformance with the City Traffic Control Requirements.
- 7. Contractor shall furnish evidence that his/her insurance meets the requirements of the City of Lee's Summit, Missouri Municipal Code.
- 8. Prior to installing, constructing, or performing any work on the public storm sewer line (including connecting private drainage systems to the storm sewer), contact the City of Lee's Summit Development Engineering Inspections.
- 9. Connections to the public storm sewers between structures shall not be permitted.
- 10. Contractor shall verify and accept existing topography shown herein. Contractor shall notify Engineer of any discrepancies found prior to any earthwork activities.
 11. Planning and Codes Administration require retaining wall design by a registered engineer in
- 12. Geogrid, footings, or other elements of the retaining wall(s) shall not encroach into the right of way or public easements.
- 13. A Knox Box shall be provided for Each Building.
- 14. All building and life safety issues shall comply with the 2012 International Fire Code and local amendments as adopted by the City of Lee's Summit.

Final Developement Plans

Title Sheet

Summit At West Pryor

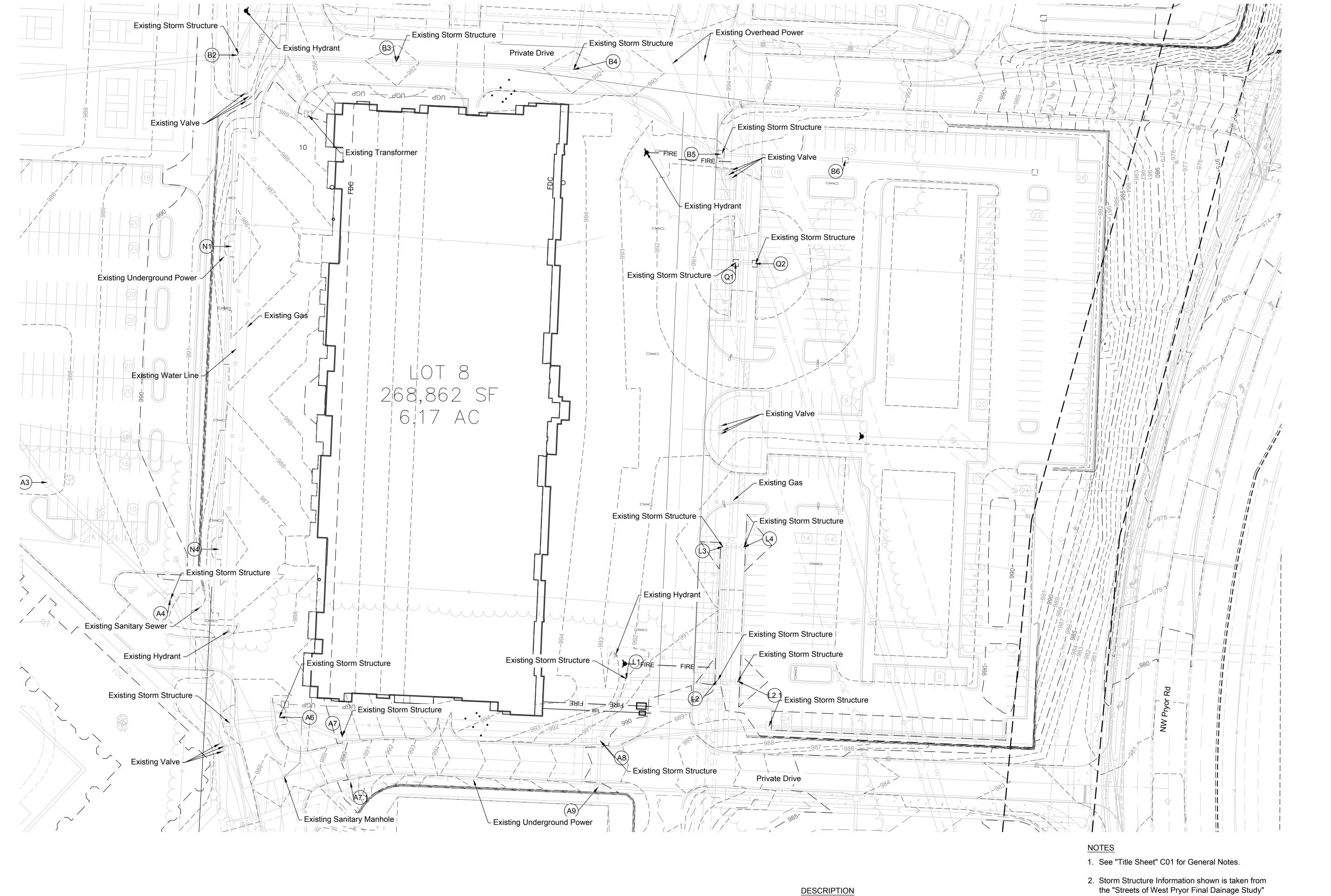
Lee's Summit, Jackson, MO

Sheet

C01

IBIS MCGEE STREET, SUITE. 200
KANSAS CITY, MISSOURI 64108





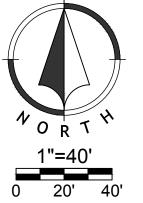
2. Storm Structure Information shown is taken from the "Streets of West Pryor Final Dainage Study" Prepared by Kaw Valley Engineering, Inc., 2319 N. Jackson, Junction City, Kansas, 66441, (785)762-5040. Renaissance Infrastucture Consulting is not responsible for the accuracy of the information shown hereon and the accompaning tables shown on sheet C09.

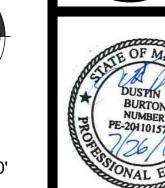
LOT 8, PLAT OF STREETS OF WEST PRYOR, LOTS 1 THRU 14, TRACTS "A", "B", "C", & "D",

IN THE CITY OF LEE'S SUMMIT, JACKSON

COUNTY, MISSOURI

 The Contractor shall verify existing structures locations, sizes and descriptive type information prior to beginning construction activities.





s Summit, Jacks

Sheet

kisting Condition

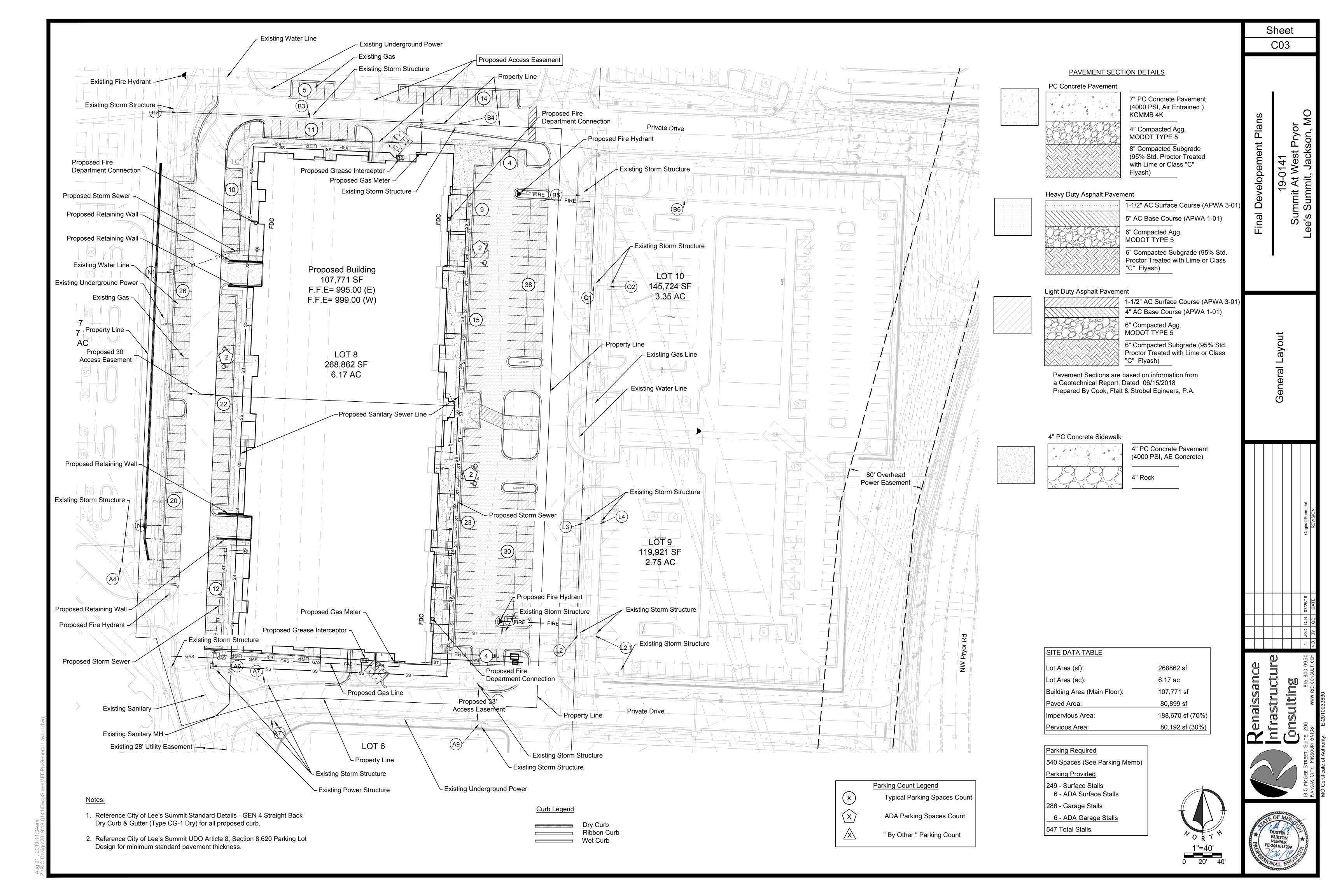
950 1. JGD DJB 07/26/19 Original Submittal
COM NO. BY QD DATE REVISION

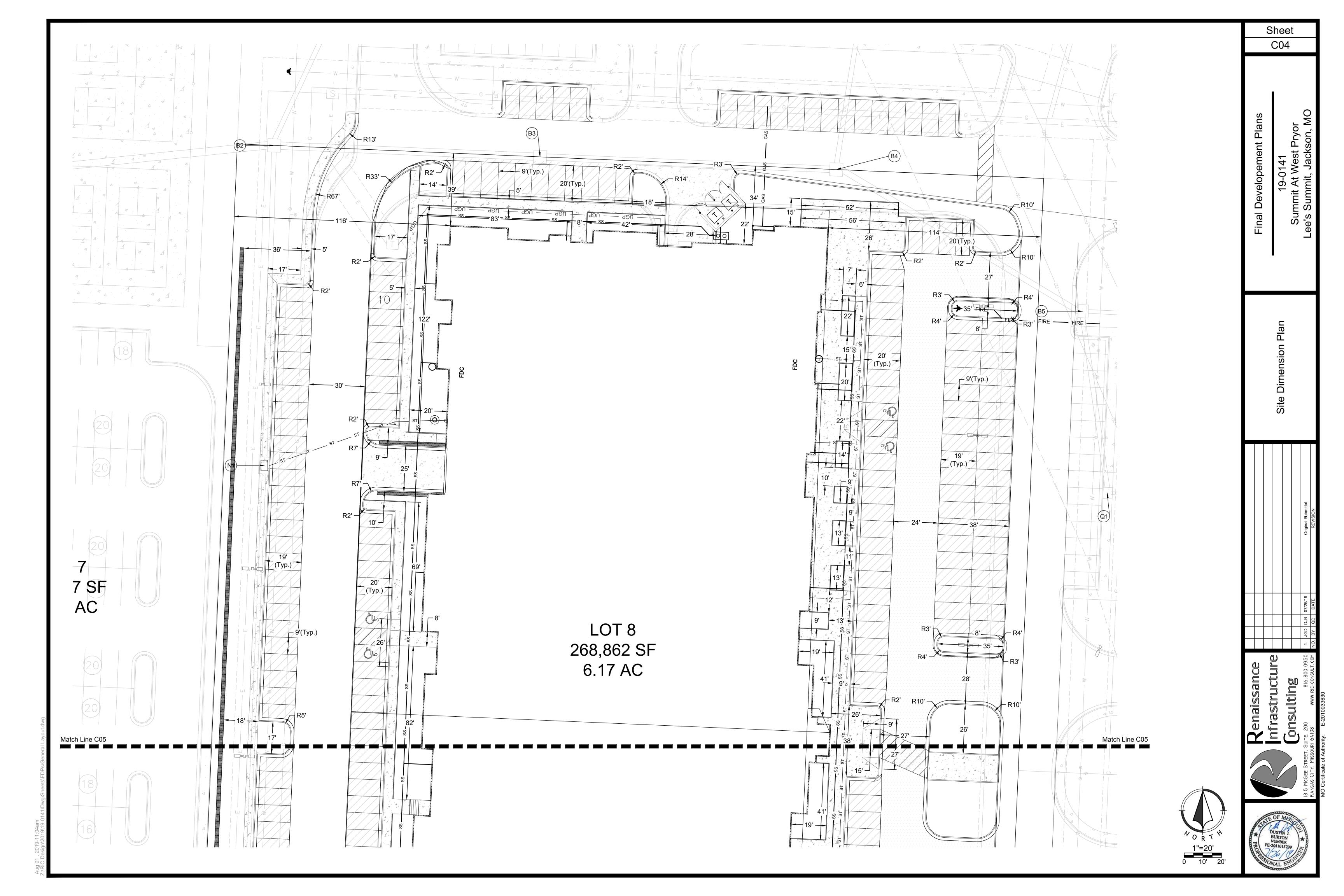
Onsulting

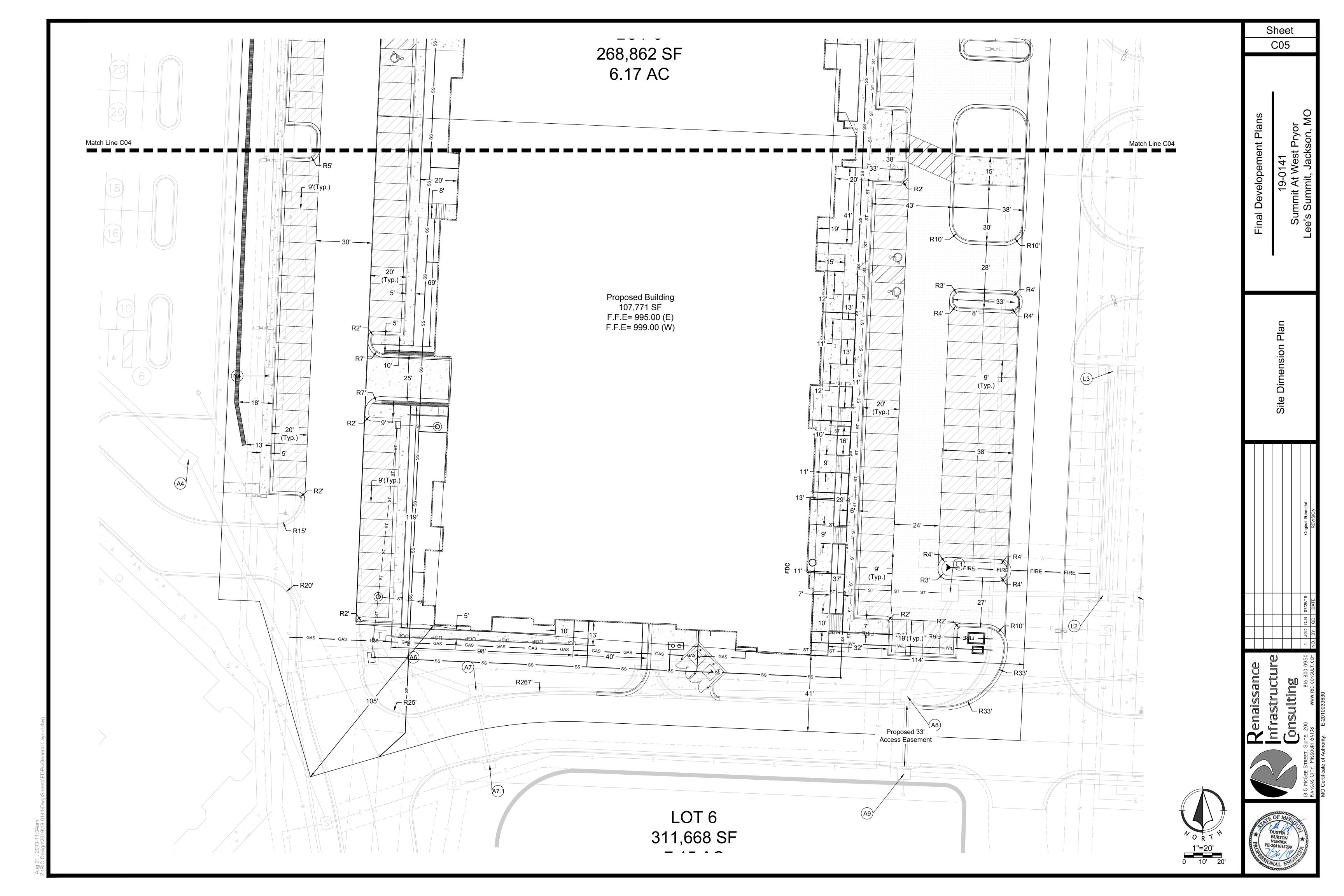
UITE. 200 816.800.09

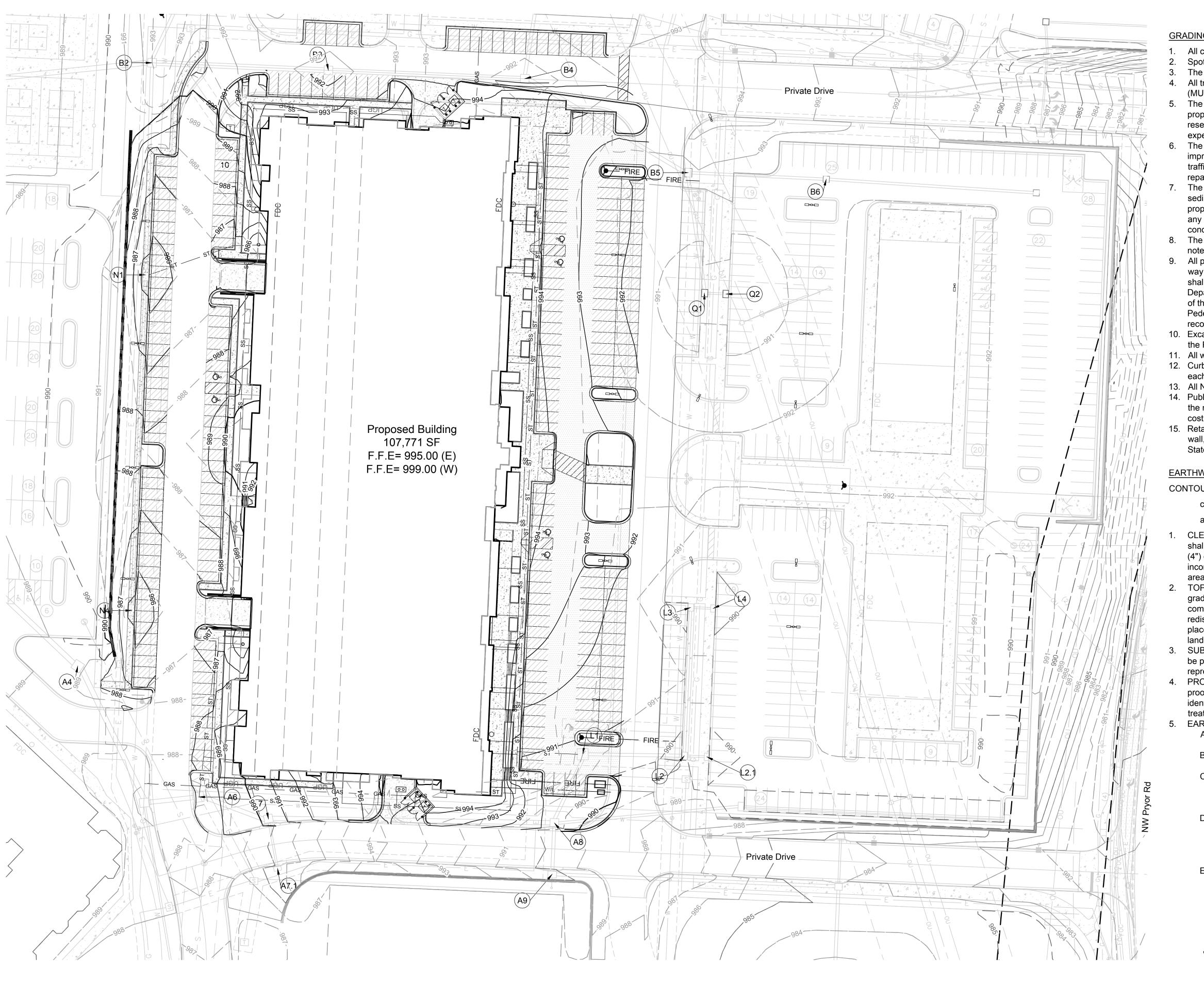
11 64108 www.ric-consult.

I815 MCGEE STREET, SUITE. 200
KANSAS CITY, MISSOURI 64108
MO Certificate of Authority: E-









GRADING NOTES

- All construction shall conform to the City's minimum design standards.
- Spot Grades shown herein shall govern over finished grades.
- The contractor shall provide evidence that his insurance meets the requirements of the Project. All traffic control shall be in conformance with the Manual of Uniform Traffic Control Devices
- The contractor is responsible for the protection of all property corners and section corners. Any
- property corners and/or section corners disturbed or damaged by construction activities shall be reset by a Registered Land Surveyor licensed in the State of Missouri, at the contractor's
- The contractor shall be responsible for the restoration of the right-of-way and for damaged improvements such as curbs, driveways, sidewalks, street light and traffic signal junction boxes, traffic signal loop lead ins, signal poles, irrigation systems, etc. Damaged improvements shall be repaired in conformance with the latest City standards and to the City's satisfaction.
- The contractor is responsible for providing erosion and sediment control BMPs to prevent sediment from reaching paved areas, storm sewer systems, drainage courses and adjacent properties. In the event the prevention measures are not effective, the contractor shall remove any debris, silt, or mud and restore the right-of-way, or adjacent properties to original or better
- The contractor shall sod all disturbed areas within the public street right-of-way unless otherwise noted on the plans or if specific written approval is granted by the City.
- All public street sidewalk ramps, driveway aprons, and sidewalk constructed within City right of way will be required to comply with Public Right of Way Accessibility Guidelines (Prowag) and shall have less than 2% cross slope. Contractor shall contact the City of Lees Summit Department of Public Works at 816-969-1800 for a Public Works Inspector to approve the forming of the pedestrian improvements and driveway within City right of way prior to pouring concrete. Pedestrian improvements that do not meet Prowag will be required to be removed and
- 10. Excavation for utility work in public street right-of-way requires a Right-of-Way Work Permit from the Public Works Department, in addition to all other permits.
- 11. All work shall be confined within easements and/or construction limits as shown on the plans.
- 12. Curb stakes and hubs shall be provided at all high points, low points, ADA ramp openings, and on each side of all curb inlets when setting string line.
- 13. All National Pollution Discharge Elimination System(NPDES) standards shall be met.
- 14. Public and Private utility facilities shall be moved or adjusted as necessary by the owners to fit the new construction unless otherwise noted on the plans. The Contractor is responsible for the cost of utility relocations unless otherwise indicated on the plans.
- 15. Retaining wall elevation shown for reference only. Contractor is responsible for final design of wall, including engineering calculations by a professional structural engineer registered in the State of Missouri.

EARTHWORK NOTES:

CONTOURS AND ELEVATIONS: Existing and proposed contours are shown on plans at one feet (1')

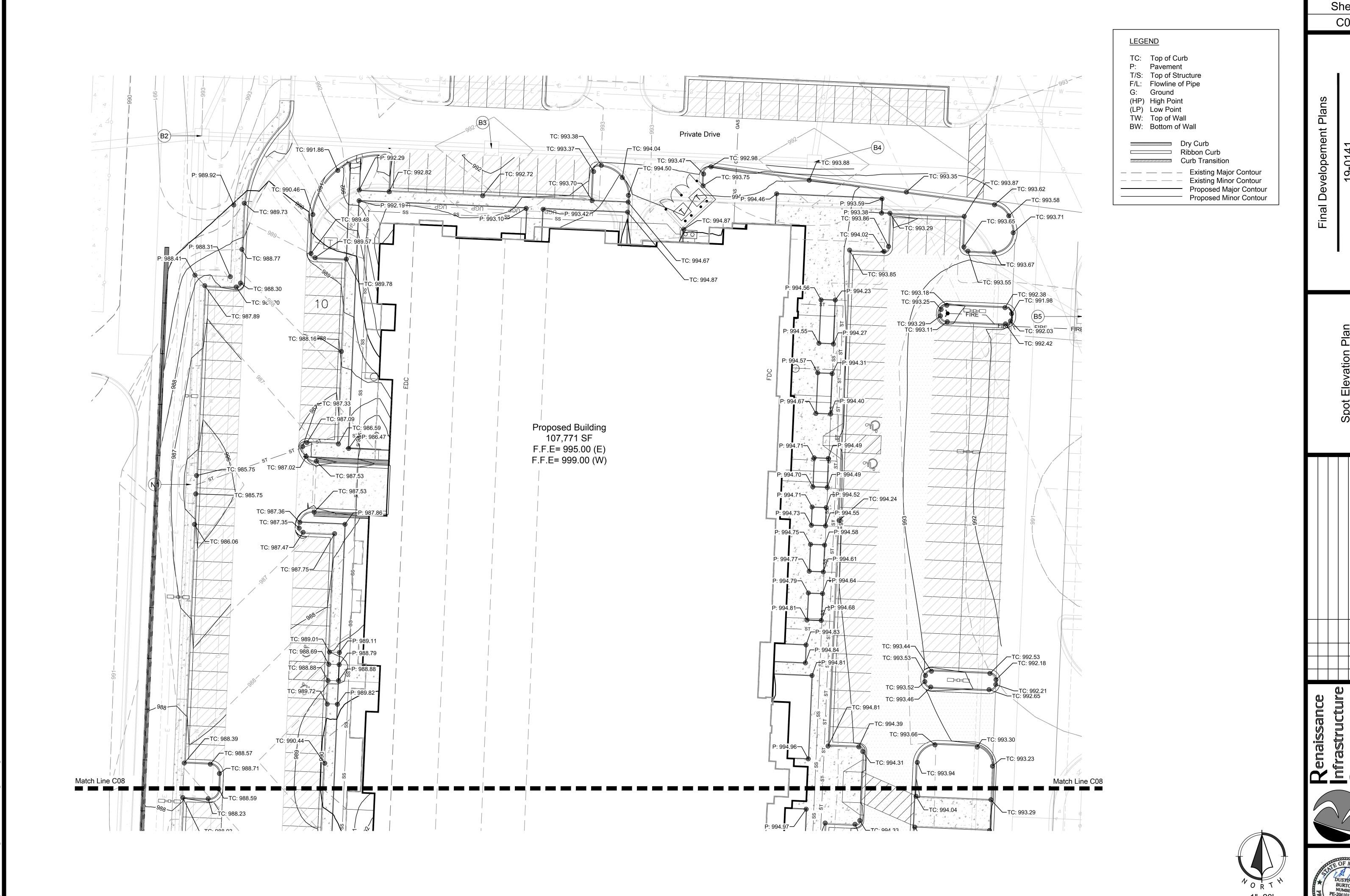
contour intervals, unless otherwise noted. Proposed contours and elevations shown represent approximate finish grade.

- CLEARING AND GRUBBING: Prior to the start of grading and earthwork, the areas to be graded shall be stripped of all vegetation, organic matter, and topsoil, to a minimum depth of four inches (4") or as otherwise directed by the Geotechnical Engineer. Stripping materials shall not be incorporated into structural fills. Topsoil materials shall not be used in building and pavement
- 2. TOPSOIL: Prior to the start of grading, the contractor shall strip all topsoil from areas to be graded and stockpile at a location on or adjacent to the site as directed by the owner. At completion of grading operations and related construction, the contractor will be responsible for redistribution of topsoil over all areas disturbed by the construction activities. Topsoil shall be placed to a minimum depth of six inches (6") and in accordance with specifications for
- SUBGRADE PREPARATION: Prior to placement of new fill material, the existing subgrade shall be proofrolled and approved under the direction of the Geotechnical Engineer or his
- PROOFROLLING: Prior to the placement of new fill material, the existing subgrade shall be proofrolled and approved under the direction of the Geotechnical Engineer. Unsuitable areas identified by the proofrolling areas shall be undercut and replaced with controlled structural fill or treated with flyash per the Geotechnical report.
- EARTHWORK:
 - A. GEOTECHNICAL: All earthwork shall conform to the recommendations of the Geotechnical report.
 - B. SURFACE WATER: Surface water shall be intercepted and diverted during the placement of fill.
 - C. FILLS: All fills shall be considered controlled or structural fill and shall be free of vegetation, organic matter, topsoil, and debris. All fill required for project shall be provided by the Contractor. Material Shall be pre-approved by the Geotechnical Engineer prior to
- D. EXISTING SLOPES: Where fill material is to be placed on existing slopes greater than 5:1 (horizontal to vertical), existing slope shall be benched providing a minimum vertical face of twelve inches (12"). Fill material shall be placed and compacted in horizontal lifts not exceeding nine inched (9") (loose fit measurement), unless otherwise approved by the Geotechnical Engineer.
- E. COMPACTION REQUIREMENTS: Earth fill material shall be placed and compacted to a minimum density of ninety five percent (95%) of the material's maximum dry density as determined by ASTM D698 (standard proctor compaction). The moisture content at the time of placement and compaction shall be within a range of -2% to 3% off the optimum moisture content as defined by the standard proctor compaction procedure. The moisture contents shall be maintained within this range until completion of the work. Where compaction of earth fill by a large roller is impractical or undesirable, the earth fill shall be hand compacted with small vibrating rollers or mechanical tampers.
- "The Geotechnical recommendations shall supersede any information in the above note."



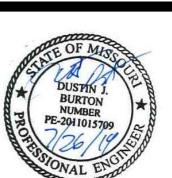


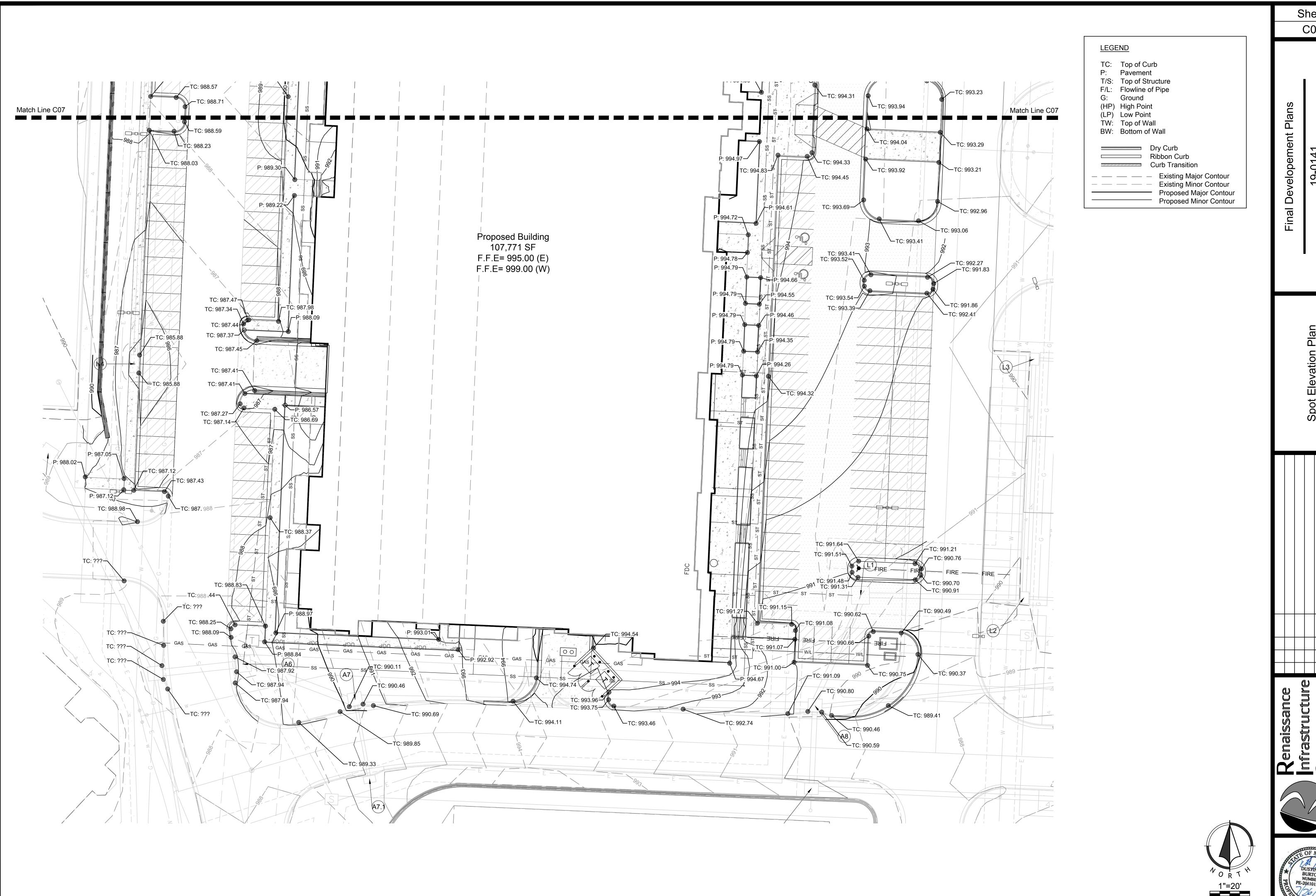
Sheet



Sheet C07



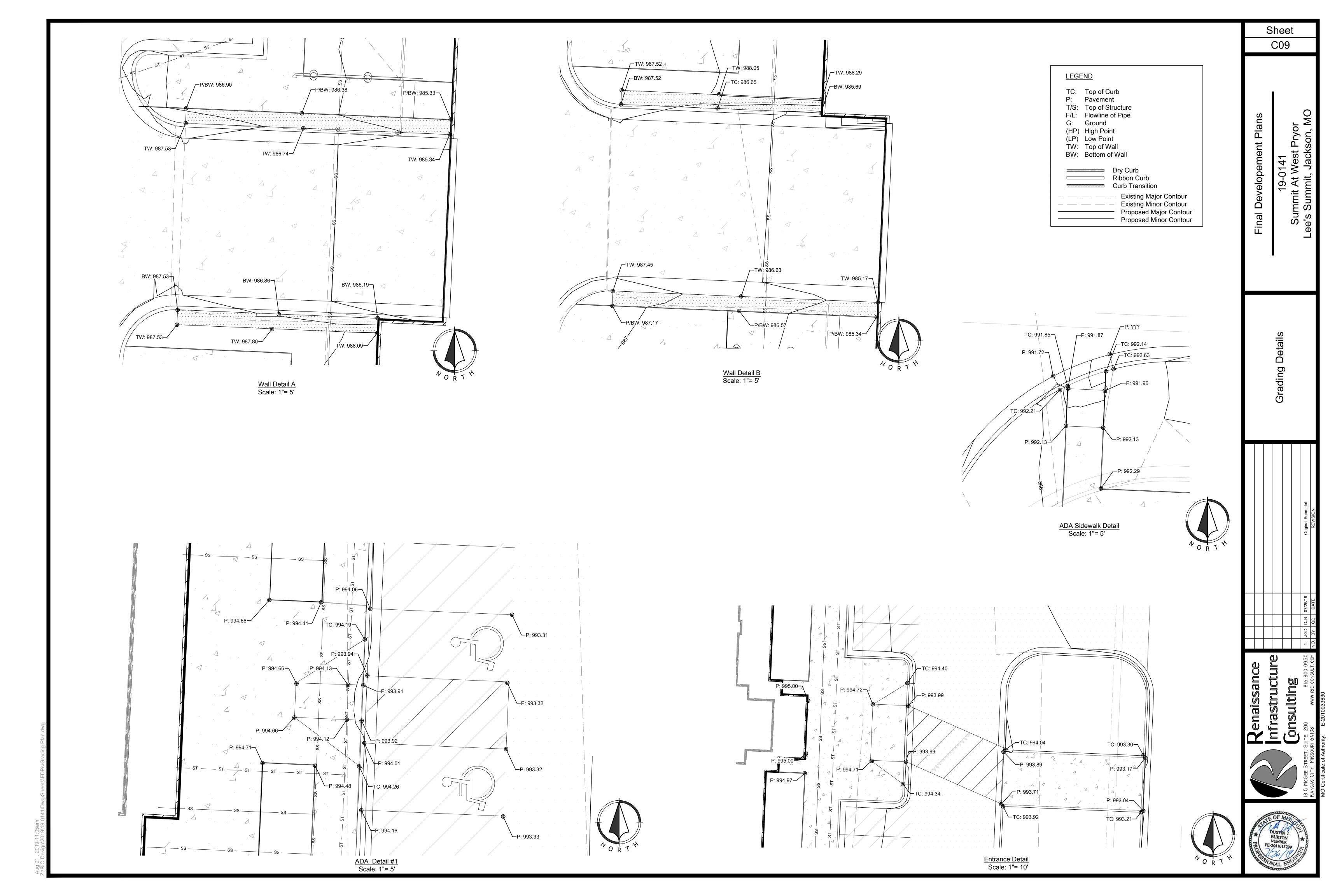


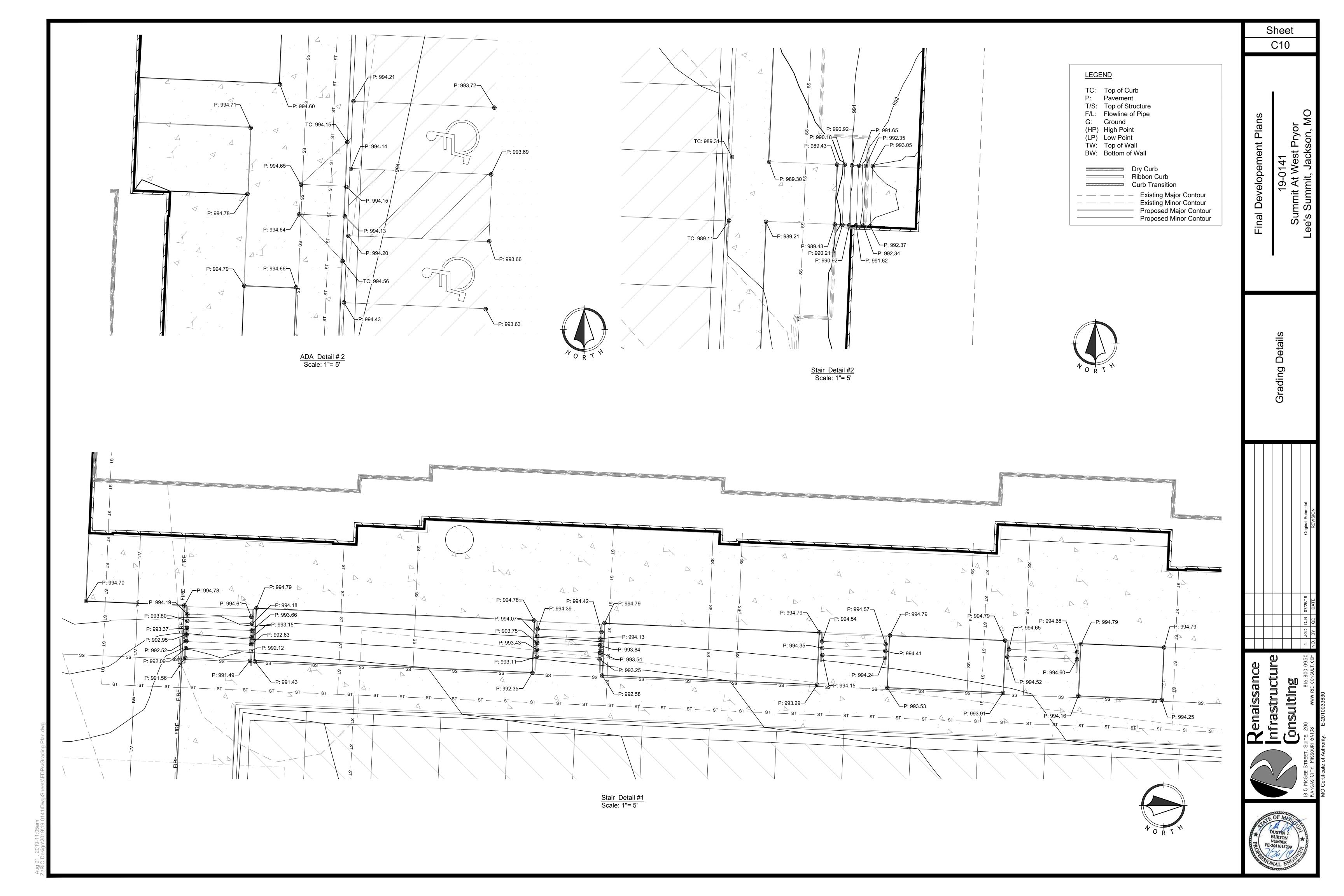


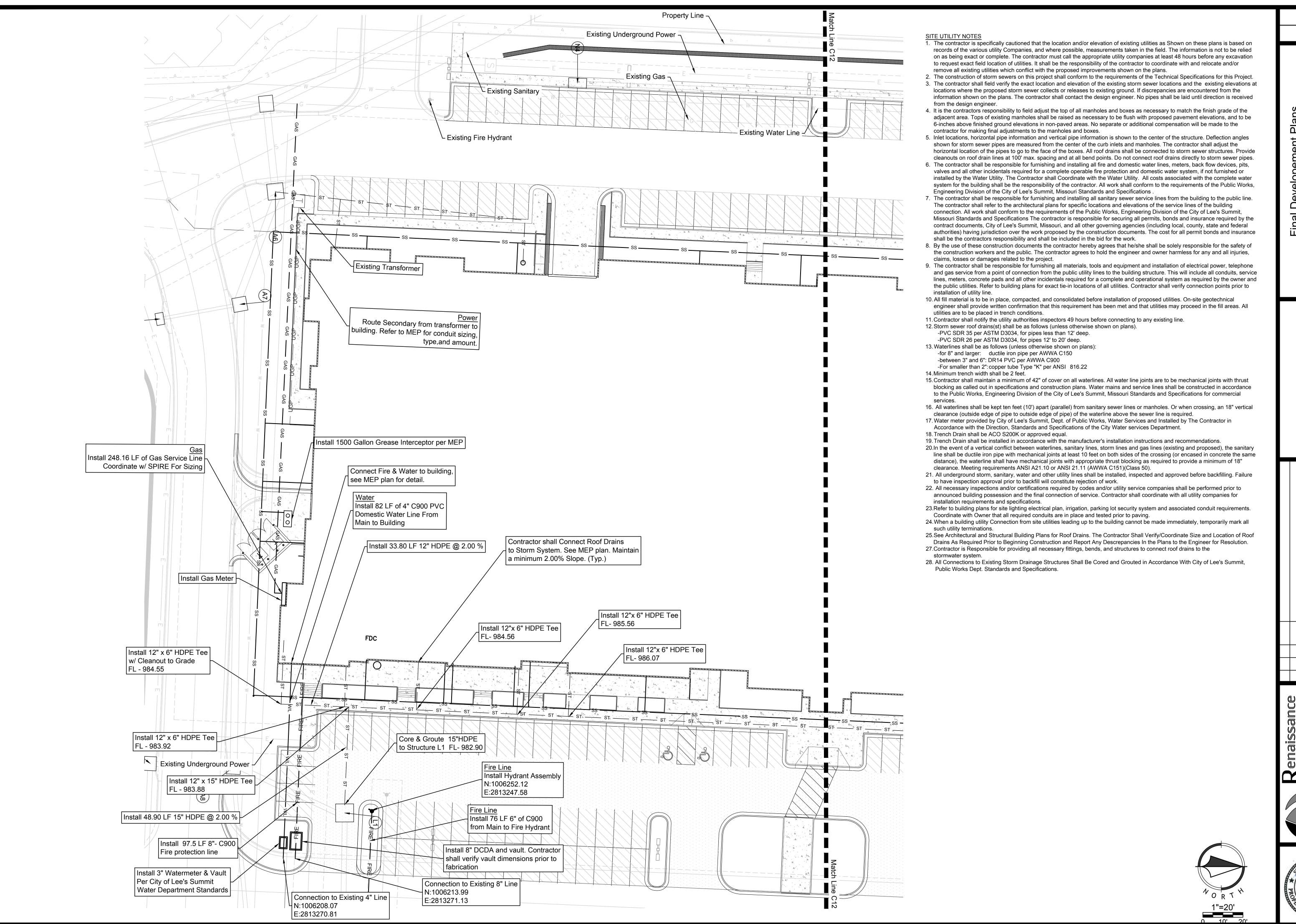
Sheet C08





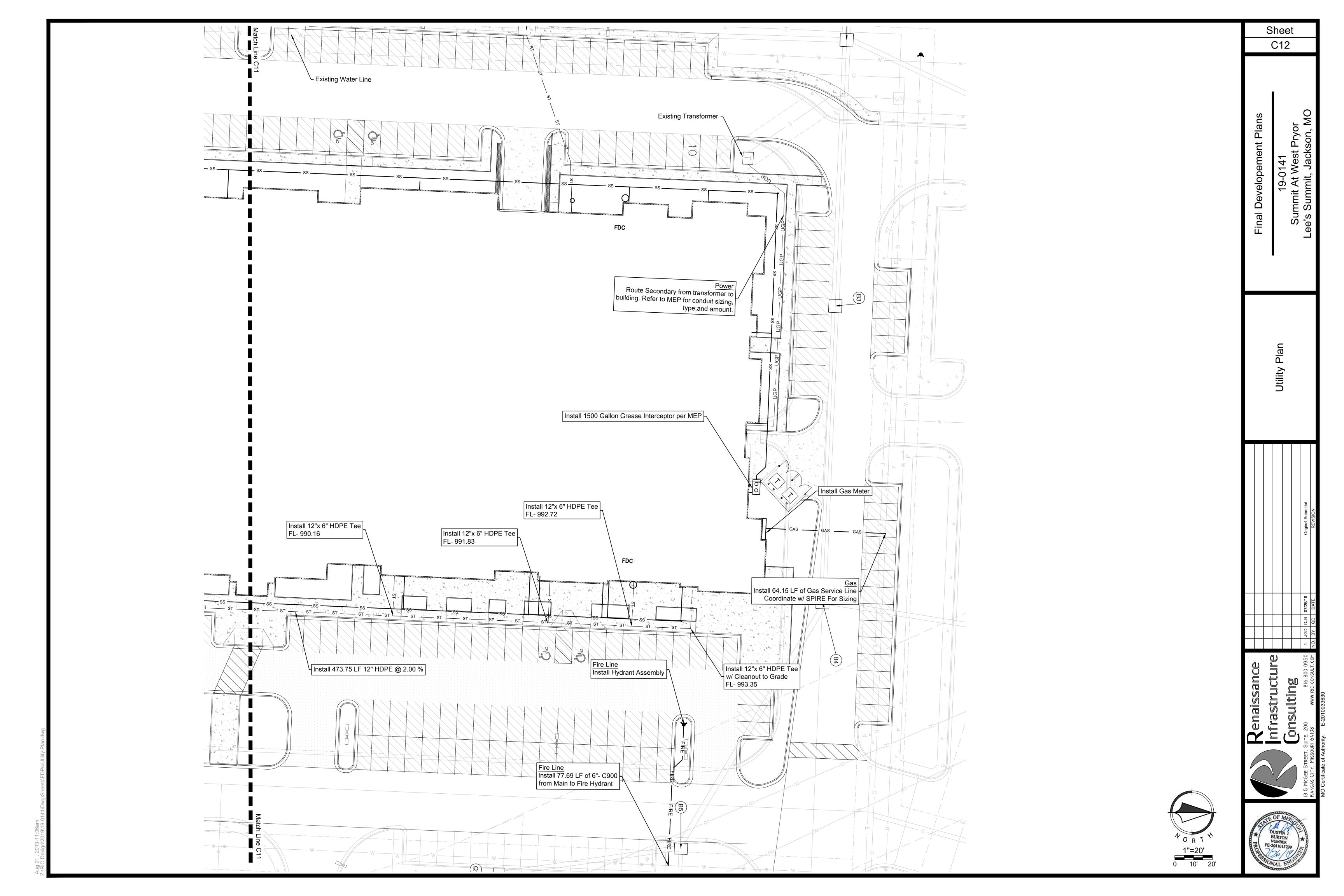


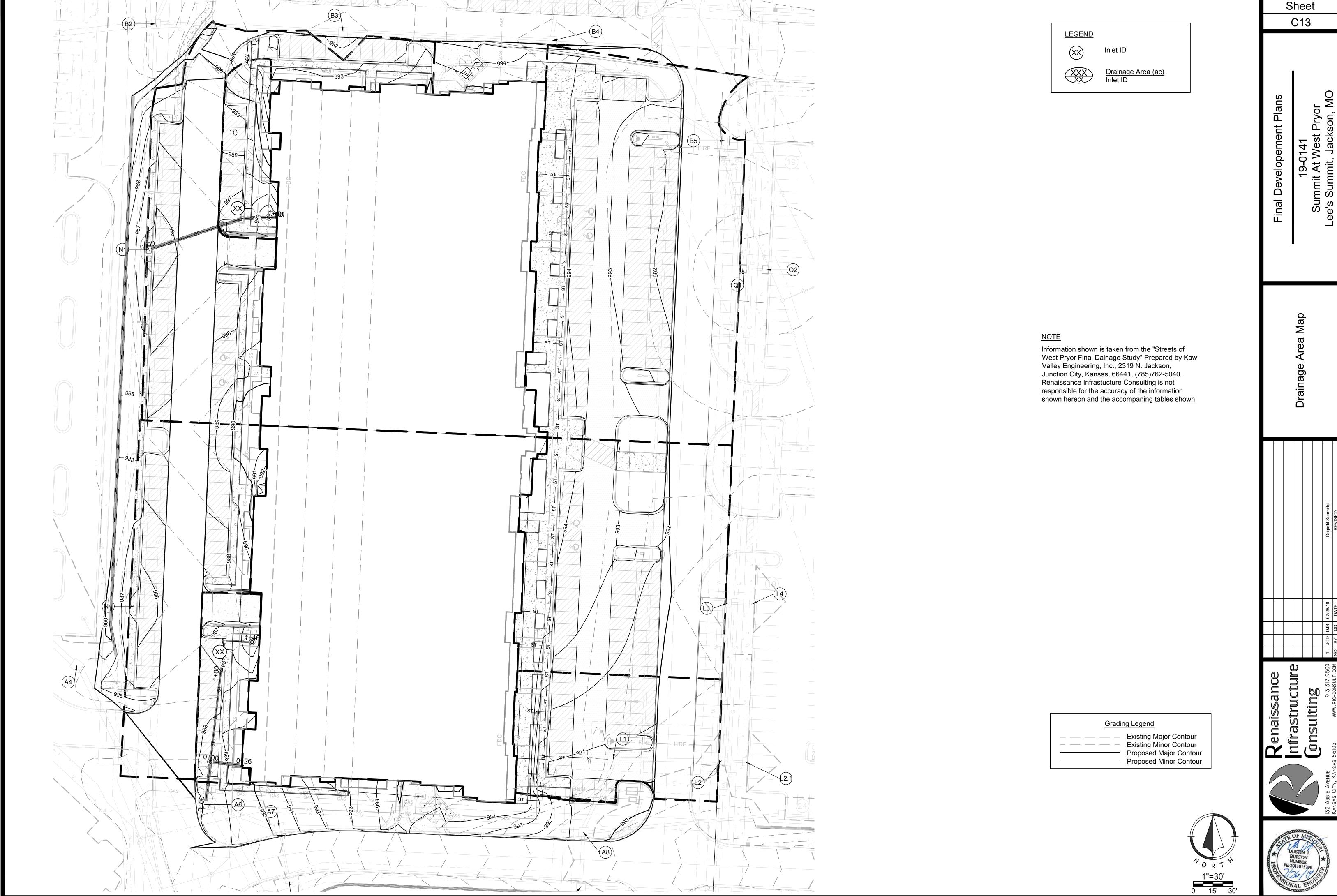




Sheet

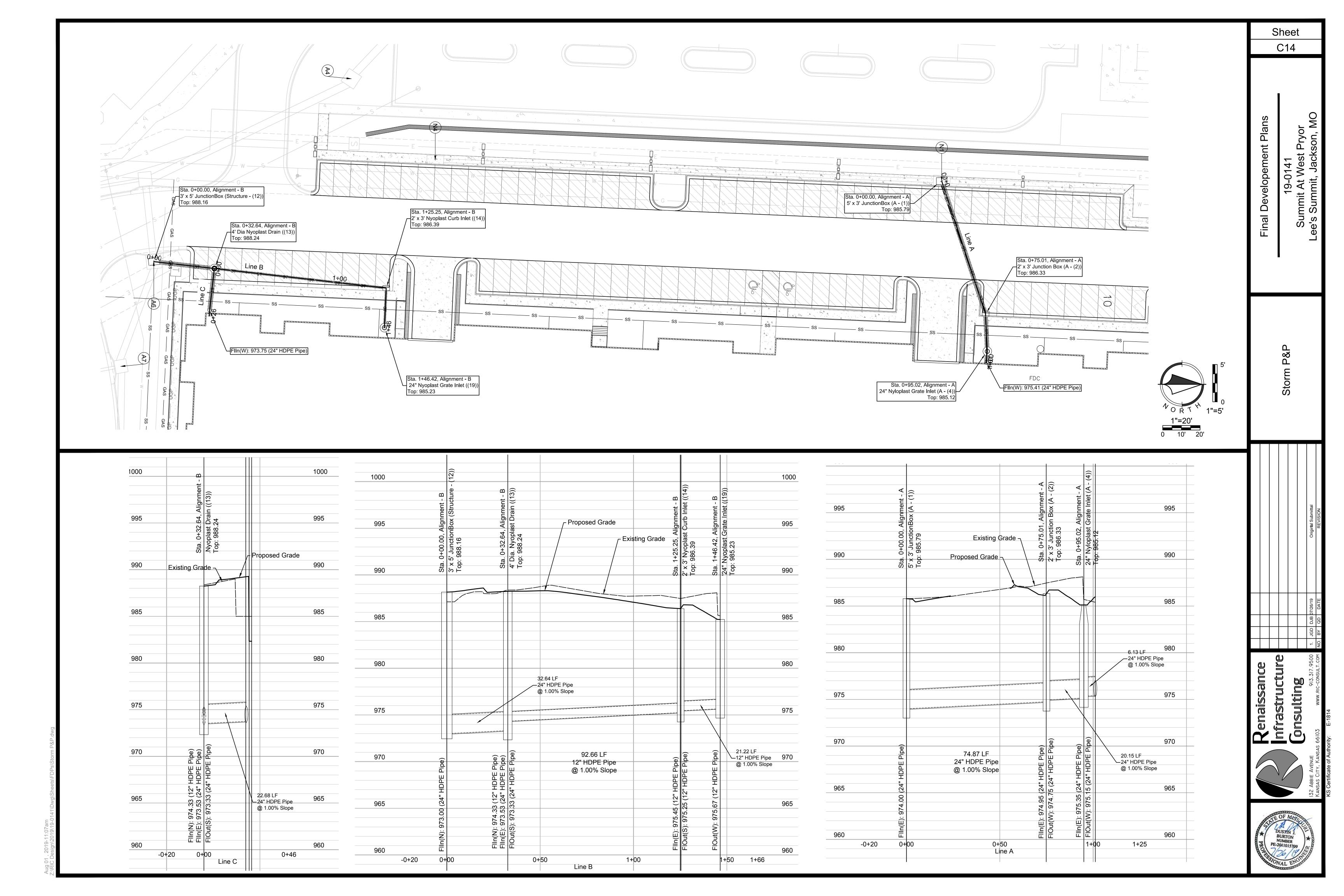


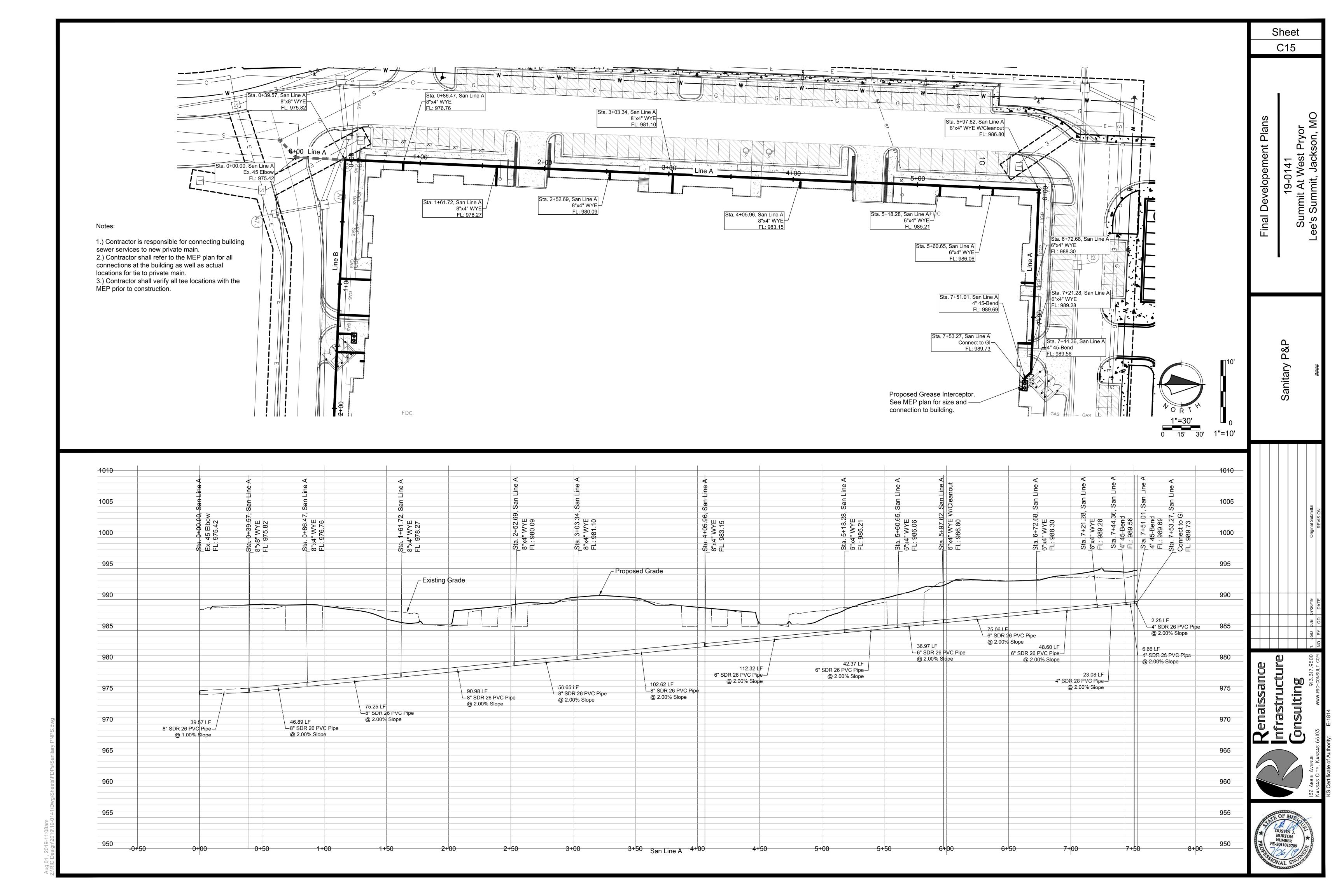


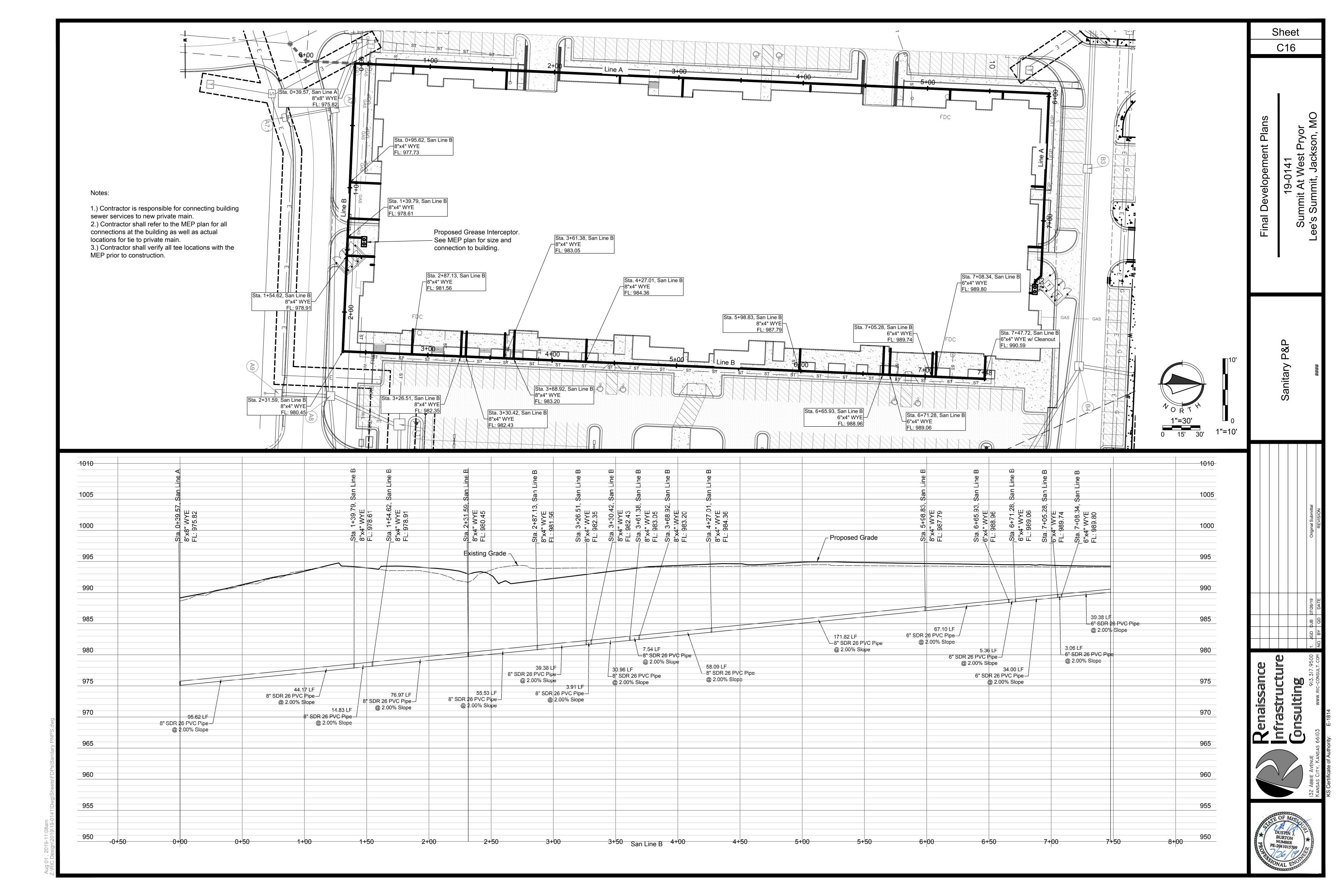


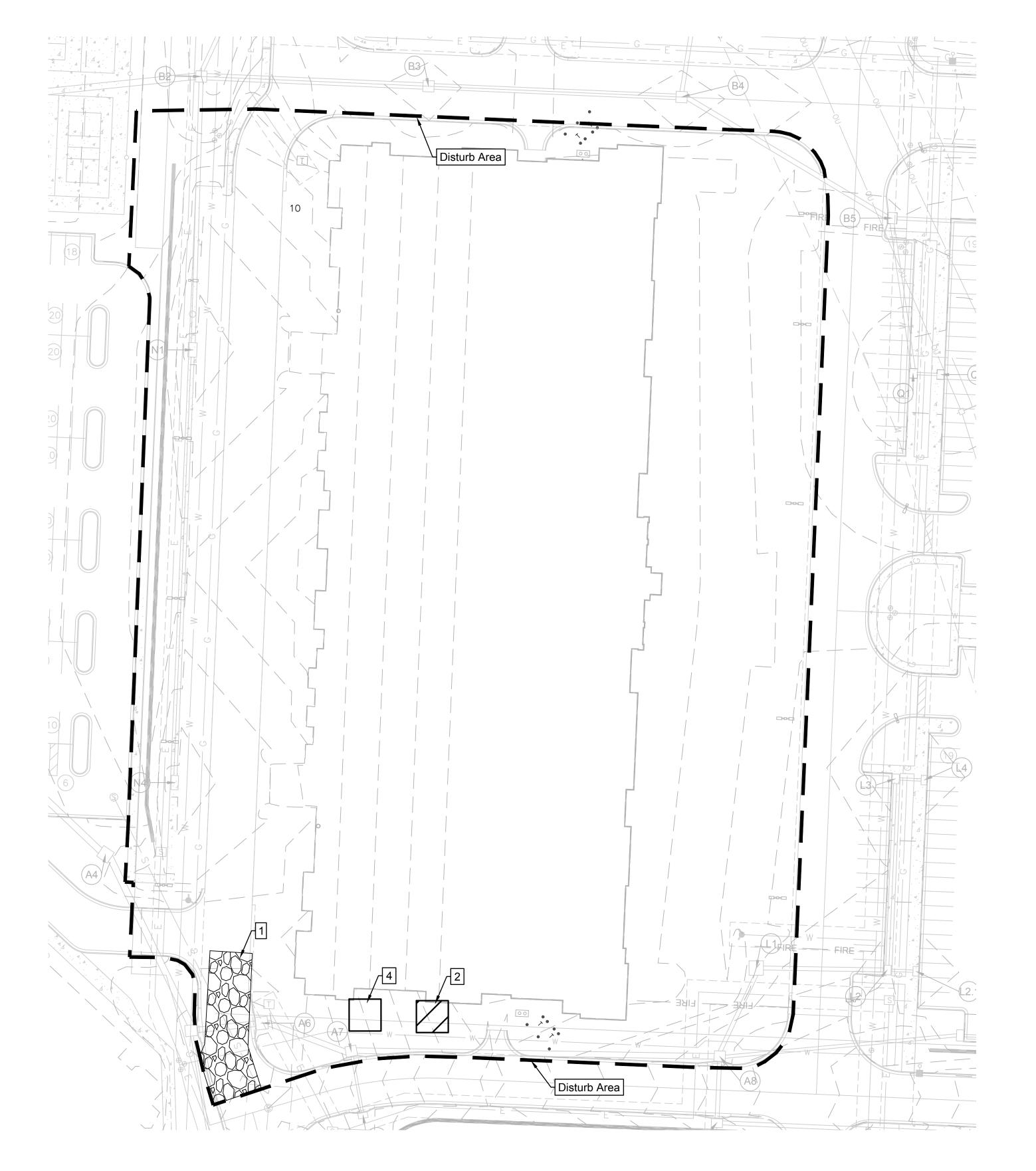
Sheet





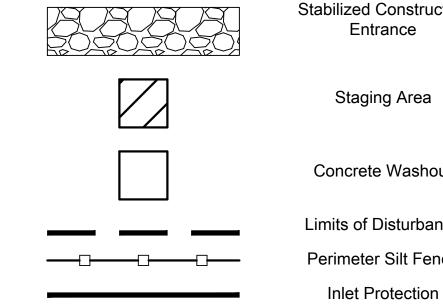






	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	move	NOTES
Phase I	A-Prior to Construction	1	Construction Entrance	В	Install Construction Entrance in accordance with APWA Standard Detail ESC-01
		2	Staging Area	В	Install Staging Area
		3	Perimeter Silt Fence	С	Install Silt Fence in accordance with APWA Standard Detail ESC-03
		4	Concrete Washout	В	Install Concrete Washout as Shown on Plans Prior to Pouring Any Concrete in accordance with APWA Standard Detail ESC-01
Phase II	B-During Land Disturbance and Storm Infrastructure Installation	5	Sediment Trap	С	Install Sediment Trap as Shown in Details and in accordance with Standard Detail ESC-08
		6	Inlet Protection	С	Install Filter Bags Prior to Construction
Phase III	C-Final Stabilization	7	Establish Perennial Vegetation	N/A	Redistribute Topsoil and Seed and Mulch all Disturbed Area. Stabilization Complete when 100% of Disturbed Area is Established with Perennial Vegetation with a Density of 70%

Disturbed Area for Site Improvements: *** Acres



EROSION CONTROL NOTES

- 1. All work in public easements and right-of-way and all erosion control work must comply with the latest specifications set forth by the City of Grandview, MO, the Kansas City Chapter of American Public Works Association (APWA), and MoDOT plans and specifications. If any of the specification and/or general notes conflict with the requirements provided by the City of Grandview, the City of Grandview's standards shall override.
- 2. The contractor shall provide all materials, tools, equipment, and labor as necessary to install and maintain adequate erosion control, keep the streets clean of mud and debris, and prevent soil from leaving the project site. The contractor's erosion control measures shall conform to the City of Grandview, MO, the Kansas City Chapter of American Public Works Association (APWA), and MoDOT plans and specifications.
- Erosion control plan modifications shall be required if the plan fails to substantially control erosion and offsite sedimentation.
- 4. The contractor shall be responsible for maintaining erosion control devices and removing sediment until a minimum of 70% of permanent vegetation has become stabilized and established. Erosion control devices shall remain in place until the 70% established vegetation is met, or the duration of the project, whichever is the later date.
- 5. The contractor shall temporarily seed and mulch all disturbed areas if there is to be no construction activity on them for a period of fourteen (14) calendar days.
- 6. Install "J' Hooks on silt fence every 100 LF
- 7. Contractor to install all Phase I erosion control devices prior to construction.
- Contractor shall replace disturbed area with seed or sod, as indicated on the plans, and shall be installed within 14 days after paving completion and final topsoil grading.
- 9. Topsoil replacement shall be 6" thick.
- 10. Silt fence to be installed in accordance with the City of Grandview,
- 11. Contractor shall remove mud and debris from City Streets and Outer Roadway within 4 hours of notification by City staff that it is a

WRITTEN SEQUENCING

- Implement Pre-Construction Plan:
 - All temporary structural BMP's shown on the BMP plan must be in place before any site disturbance. Clearing necessary to place temporary structural BMP's is the minimum required for installation. Coordinate clearing necessary to place temporary structural BMP's with local weather forecast so that clearing and placement may be completed within a forecast dry period. Stabilize all erosion control measures after installation. Temporary Barrier Fence shall be in Place, around areas not to be disturbed, prior to any construction activities. This area includes Stream Corridor.
- 2. Clear and Stabilize Work Areas:
- Grade contractor areas and place all-weather surface on contractor areas. 3. Clearing and Grubbing:
- After Phase I BMP's are installed, contractor may clear, grub, and demo required areas as necessary.

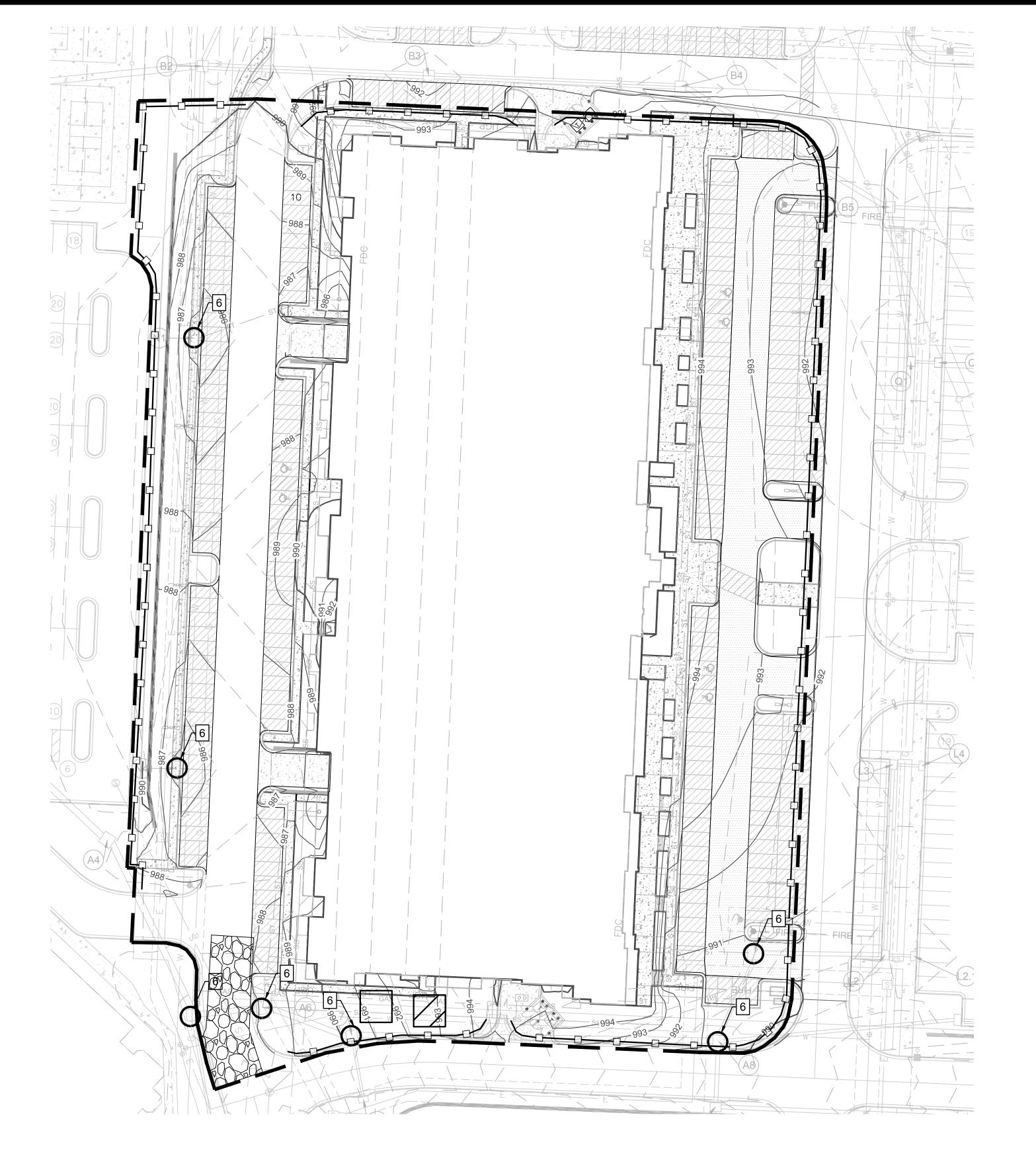




EROSION CONTROL LEGEND

Stabilized Construction Concrete Washout Limits of Disturbance Perimeter Silt Fence Inlet Protection

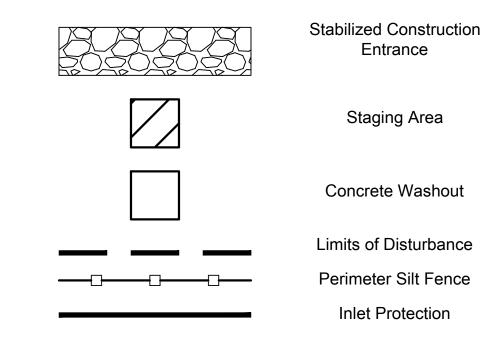
Sheet



	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES
Phase I	A-Prior to Construction	1	Construction Entrance	В	Install Construction Entrance in accordance with APWA Standard Detail ESC-01
		2	Staging Area	В	Install Staging Area
		3	Perimeter Silt Fence	С	Install Silt Fence in accordance with APWA Standard Detail ESC-03
		4	Concrete Washout	В	Install Concrete Washout as Shown on Plans Prior to Pouring Any Concrete in accordance with APWA Standard Detail ESC-01
	B-During Land Disturbance and Storm Infrastructure	5	Sediment Trap	С	Install Sediment Trap as Shown in Details and in accordance with Standard Detail ESC-08
	Installation	6	Inlet Protection	С	Install Filter Bags Prior to Construction
Phase III	C-Final Stabilization	7	Establish Perennial Vegetation	N/A	Redistribute Topsoil and Seed and Mulch all Disturbed Area. Stabilization Complete when 100% of Disturbed Area is Established with Perennial Vegetation with a Density of 70%

Disturbed Area for Site Improvements: ***** Acres

EROSION CONTROL LEGEND



EROSION CONTROL NOTES

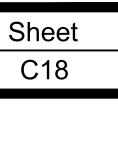
- 1. All work in public easements and right-of-way and all erosion control work must comply with the latest specifications set forth by the City of Grandview, MO, the Kansas City Chapter of American Public Works Association (APWA), and MoDOT plans and specifications. If any of the specification and/or general notes conflict with the requirements provided by the City of Grandview, the City of Grandview's standards shall override.
- 2. The contractor shall provide all materials, tools, equipment, and labor as necessary to install and maintain adequate erosion control, keep the streets clean of mud and debris, and prevent soil from leaving the project site. The contractor's erosion control measures shall conform to the City of Grandview, MO, the Kansas City Chapter of American Public Works Association (APWA), and MoDOT plans and specifications.
- 3. Erosion control plan modifications shall be required if the plan fails to substantially control erosion and offsite sedimentation.
- 4. The contractor shall be responsible for maintaining erosion control devices and removing sediment until a minimum of 70% of permanent vegetation has become stabilized and established. Erosion control devices shall remain in place until the 70% established vegetation is met, or the duration of the project, whichever is the later date.
- 5. The contractor shall temporarily seed and mulch all disturbed areas if there is to be no construction activity on them for a period of fourteen (14) calendar days.
- 6. Install "J' Hooks on silt fence every 100 LF
- 7. Contractor to install all Phase I erosion control devices prior to construction.
- 8. Contractor shall replace disturbed area with seed or sod, as indicated on the plans, and shall be installed within 14 days after paving completion and final topsoil grading.
- 9. Topsoil replacement shall be 6" thick.10. Silt fence to be installed in accordance with the City of Grandview,
- Contractor shall remove mud and debris from City Streets and Outer Roadway within 4 hours of notification by City staff that it is a nuisance.

WRITTEN SEQUENCING

- 1. Implement Pre-Construction Plan:
 All temporary structural BMP's shown on the BMP plan must be in place before any site disturbance. Clearing necessary to place temporary structural BMP's is the minimum required for installation. Coordinate clearing necessary to place temporary structural BMP's with local weather forecast so that clearing and placement may be completed within a forecast dry period. Stabilize all erosion control measures after installation. Temporary Barrier Fence shall be in Place, around areas not to be disturbed, prior to any construction activities. This area
- includes Stream Corridor.2. Clear and Stabilize Work Areas:
- Grade contractor areas and place all-weather surface on contractor areas.

 3. Clearing and Grubbing:
- After Phase I BMP's are installed, contractor may clear, grub, and demo required areas as necessary.





19-0141 At West Pryor

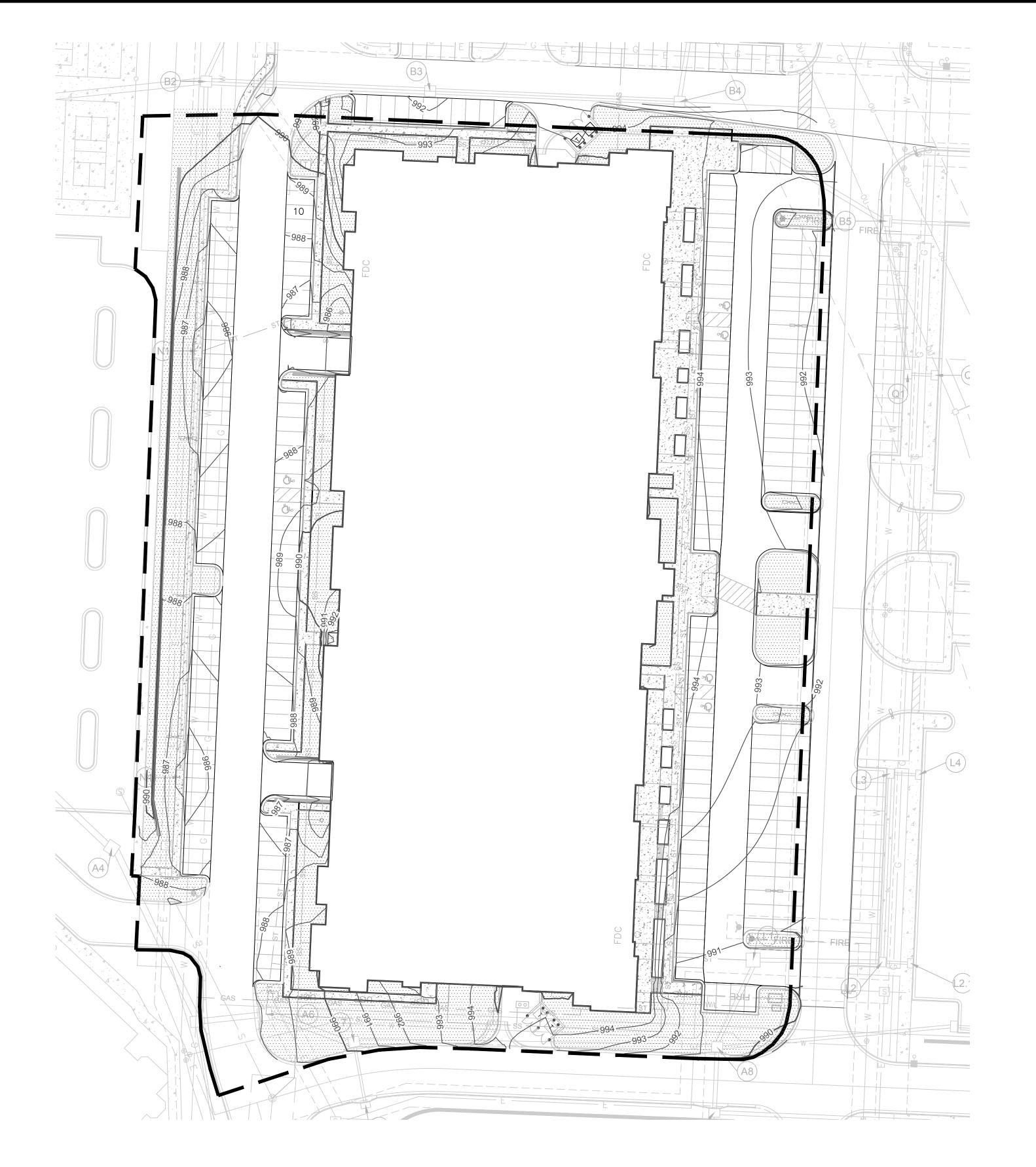
19-0141 Summit At West

Erosion Control II

UIFC | CO.0950 | 1. JGD | DJB | DATE | DATE | COriginal Submittal

Renaissance Infrastructure Onsulting

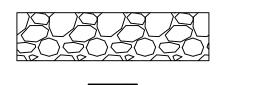




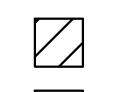
	PROJECT STAGE	PLAN REFERENCE NUMBER	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES
Phase I	A-Prior to Construction	1	Construction Entrance	В	Install Construction Entrance in accordance with APWA Standard Detail ESC-01
		2	Staging Area	В	Install Staging Area
		3	Perimeter Silt Fence	С	Install Silt Fence in accordance with APWA Standard Detail ESC-03
		4	Concrete Washout	В	Install Concrete Washout as Shown on Plans Prior to Pouring Any Concrete in accordance with APWA Standard Detail ESC-01
Phase II	B-During Land Disturbance and Storm Infrastructure	5	Sediment Trap	С	Install Sediment Trap as Shown in Details and in accordance with Standard Detail ESC-08
	Installation	6	Inlet Protection	С	Install Filter Bags Prior to Construction
Phase III	C-Final Stabilization	7	Establish Perennial Vegetation	N/A	Redistribute Topsoil and Seed and Mulch all Disturbed Area. Stabilization Complete when 100% of Disturbed Area is Established with Perennial Vegetation with a Density of 70%

Disturbed Area for Site Improvements: **** Acres

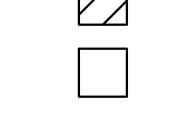
EROSION CONTROL LEGEND



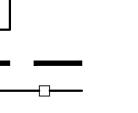
Stabilized Construction Entrance



Staging Area



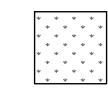
Concrete Washout



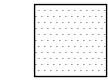
Limits of Disturbance Perimeter Silt Fence

Inlet Protection

<u>LEGEND</u>



Native Plantings See Landscape Plan



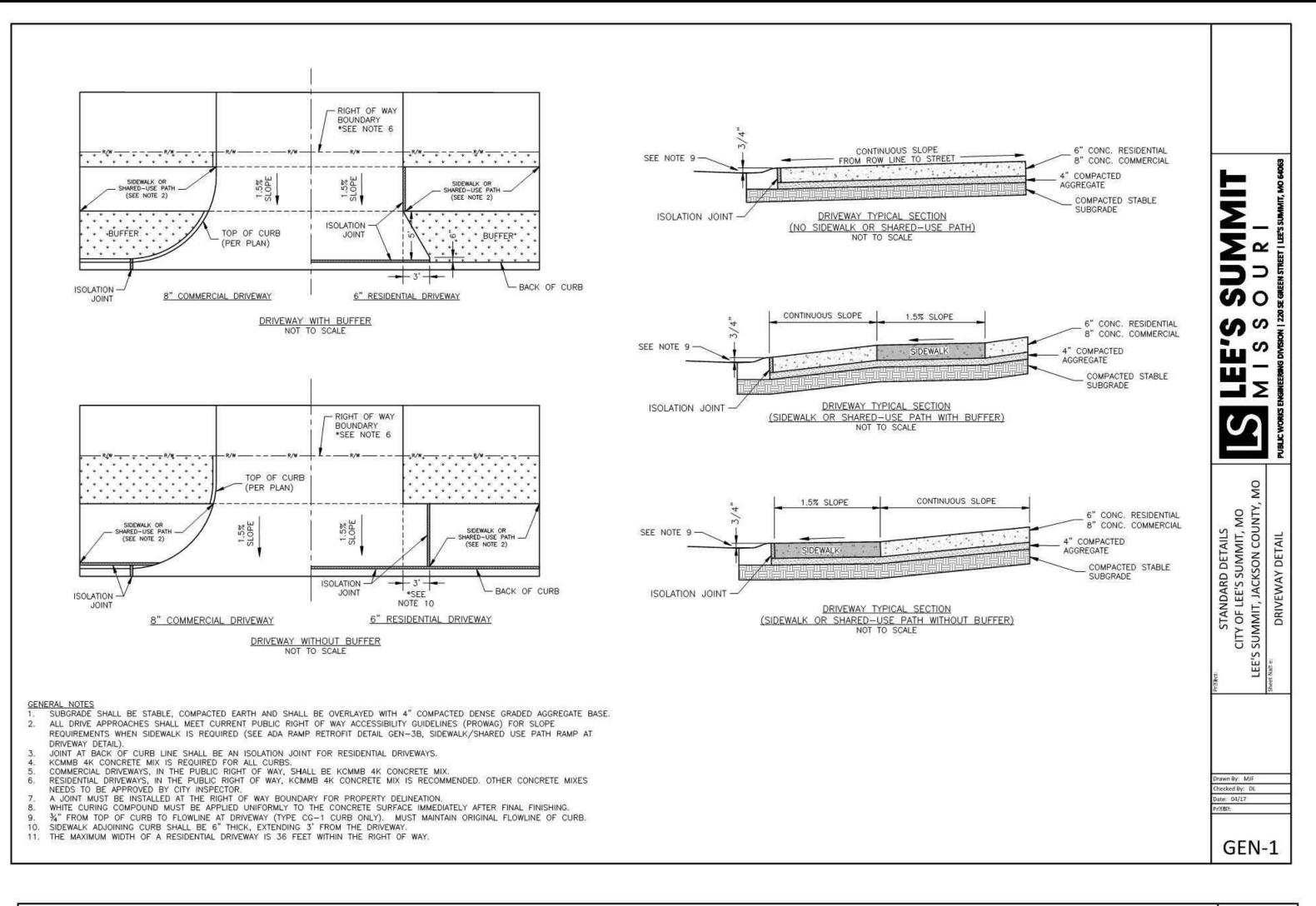
Sod Areas

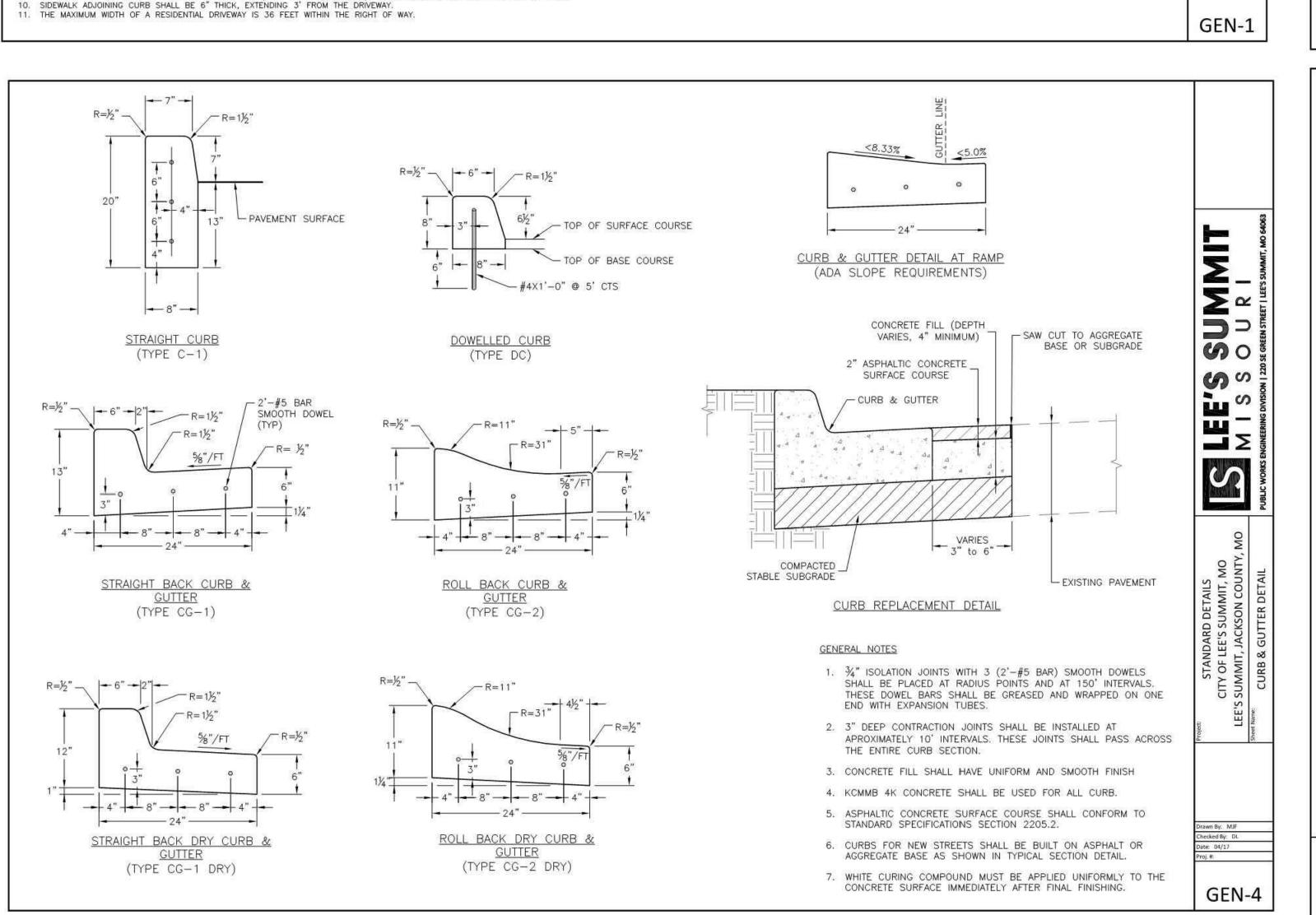


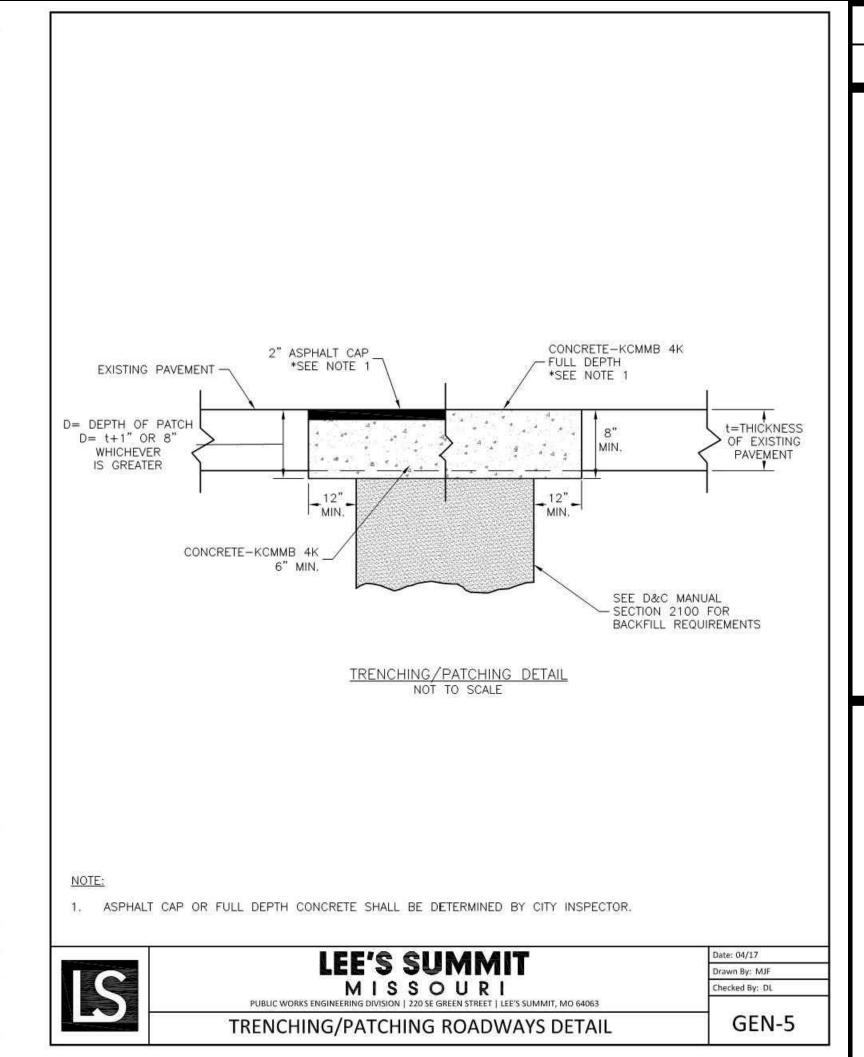
Sheet







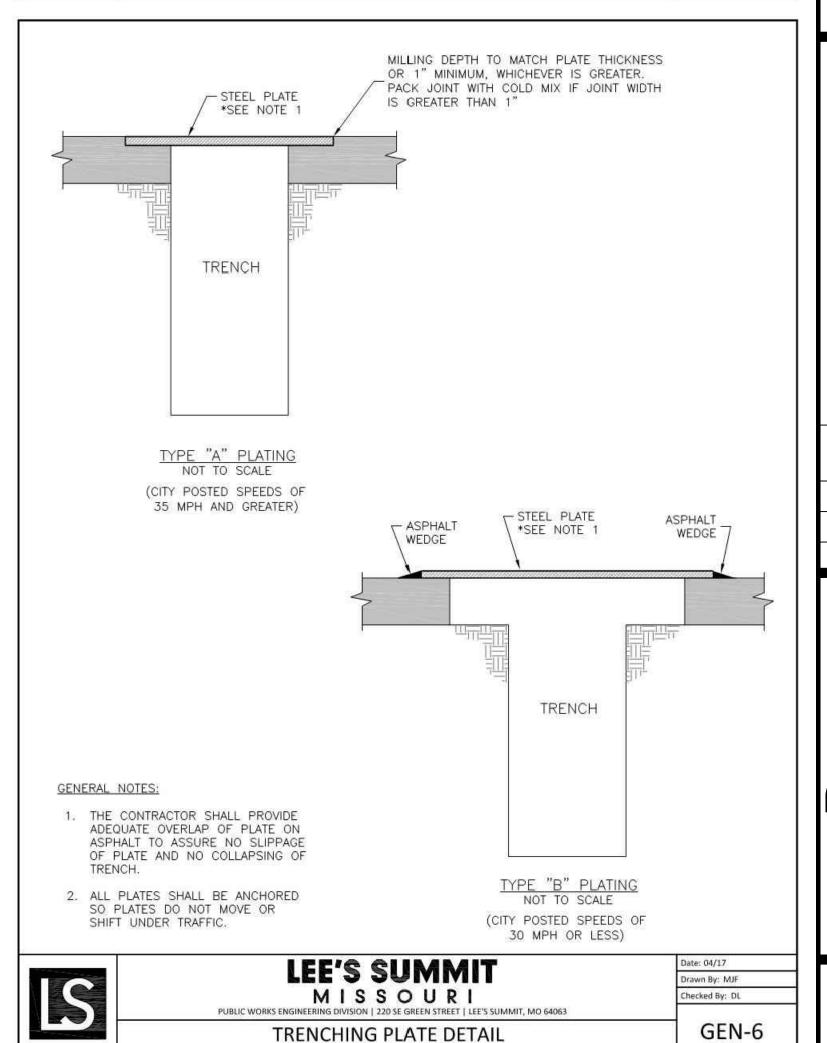




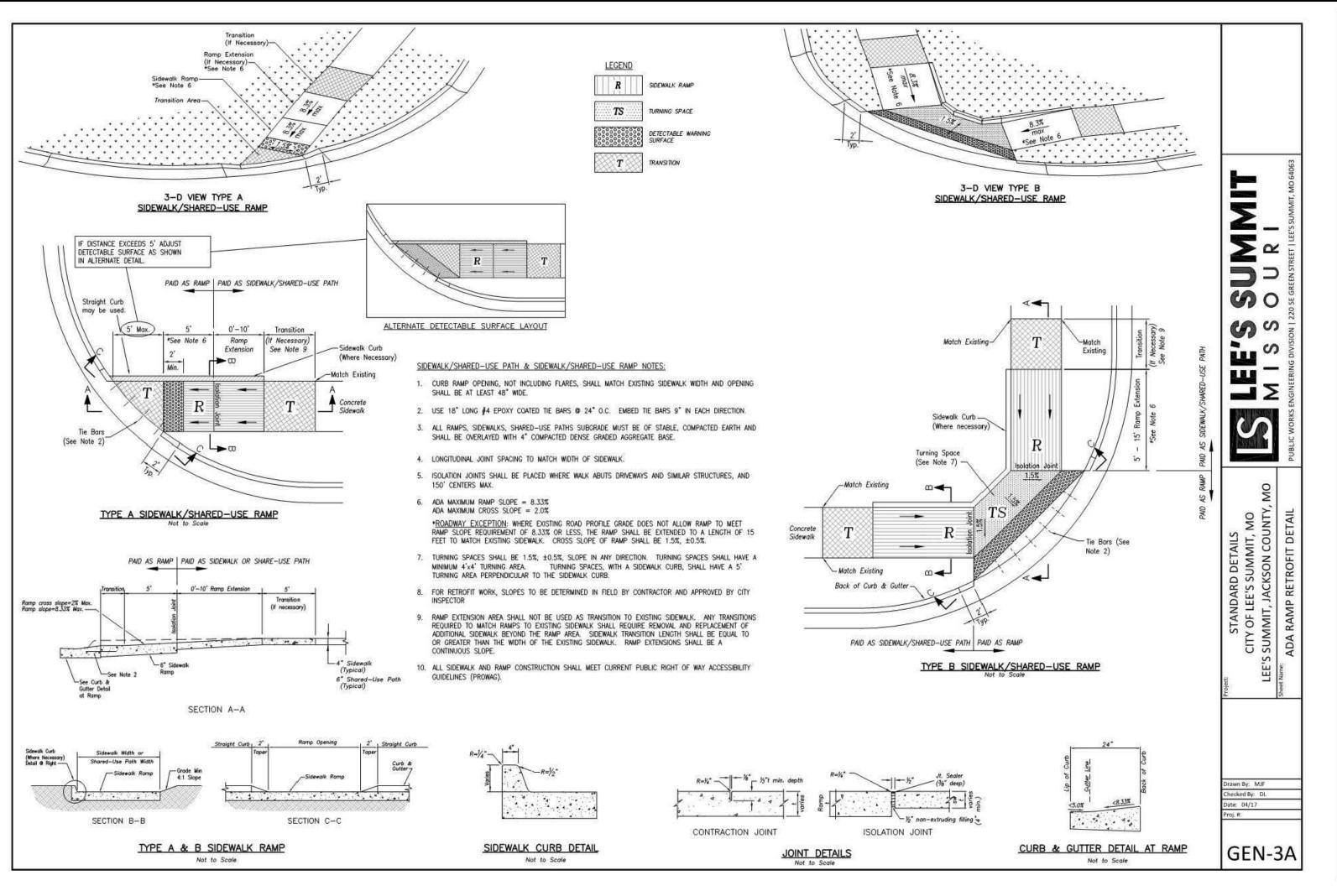
Sheet

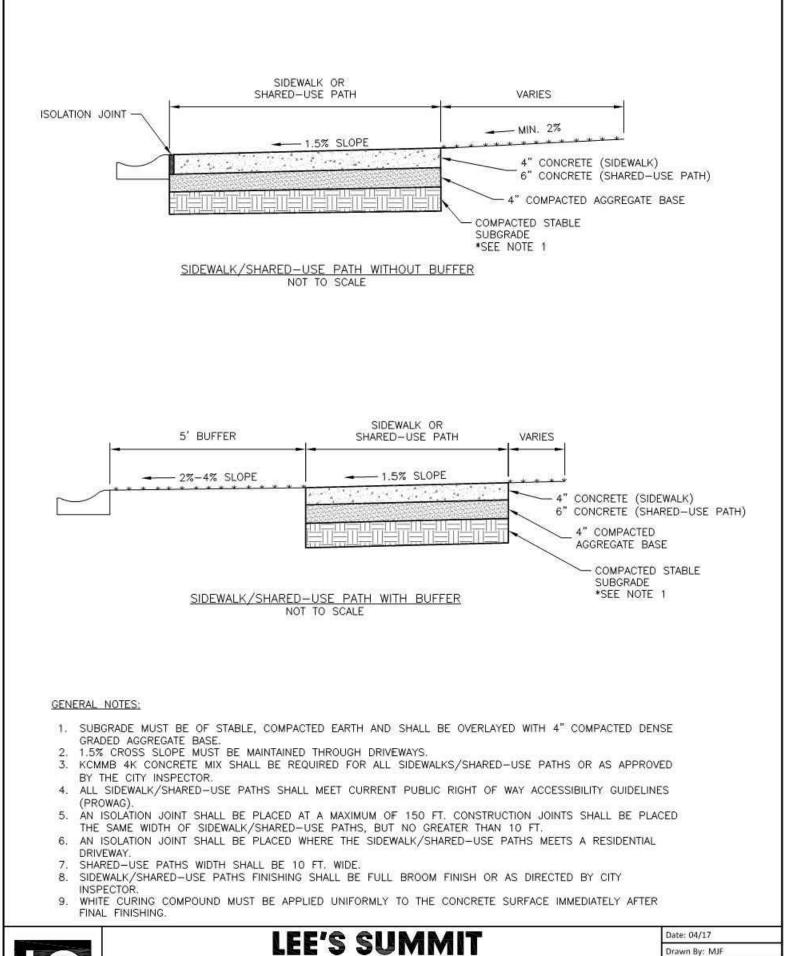
19-(At mit

Typical Details-Gene



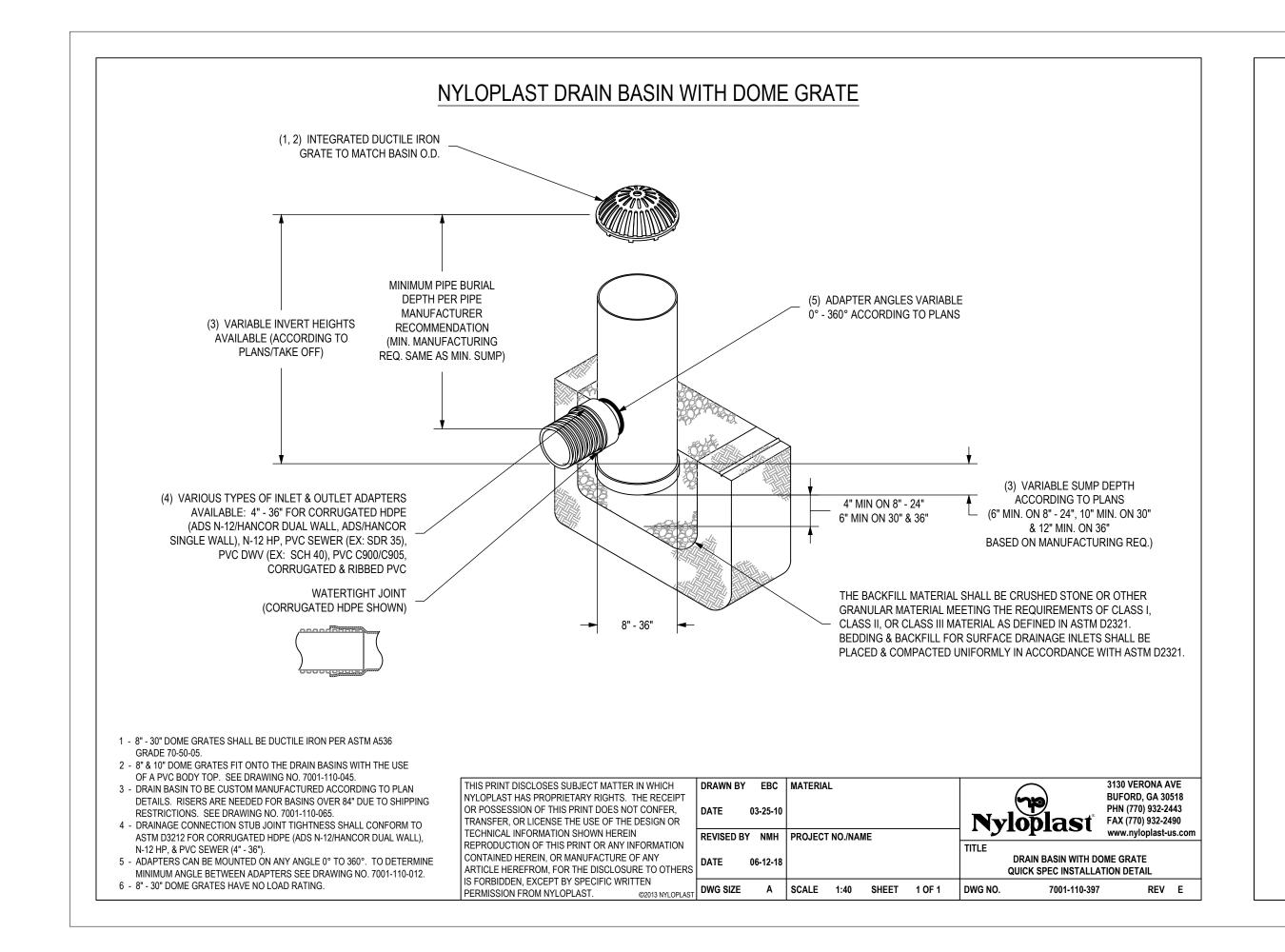
TRENCHING PLATE DETAIL





MISSOURI

SIDEWALK/SHARED-USE PATH DETAIL



Section 2721

Engineered Surface Drainage Products

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH	DRAWN BY	CJA	MATERIA	۱L				$\overline{}$	3130 VERONA	AVE
NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT							(വ ജ)	BUFORD, GA 30	0518
OR POSSESSION OF THIS PRINT DOES NOT CONFER,	DATE	3-10-00					· \	4-2/	PHN (770) 932-2	2443
TRANSFER, OR LICENSE THE USE OF THE DESIGN OR							NV	oplas ť	FAX (770) 932-2	2490
TECHNICAL INFORMATION SHOWN HEREIN	REVISED B	Y NMH	PROJEC	T NO./NAI	ΛE		יבעיי	prast	www.nyloplast-	us.com
REPRODUCTION OF THIS PRINT OR ANY INFORMATION							TITLE			
CONTAINED HEREIN, OR MANUFACTURE OF ANY	DATE	02-21-18					0.00	C IN DOAIN DACIN C	DECIFICATIONS	
ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS	5,2	02 21 10					8 IN - 3	36 IN DRAIN BASIN S	PECIFICATIONS	
IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN	DWO CIZE	Α	COALE	4.4	CUEET	4.05.4	DWO NO	7004 440 044	DEV	
PERMISSION FROM NYLOPLAST. ©2013 NYLOPLAST	DWG SIZE	Α	SCALE	1:1	SHEET	1 OF 1	DWG NO.	7001-110-011	REV	J

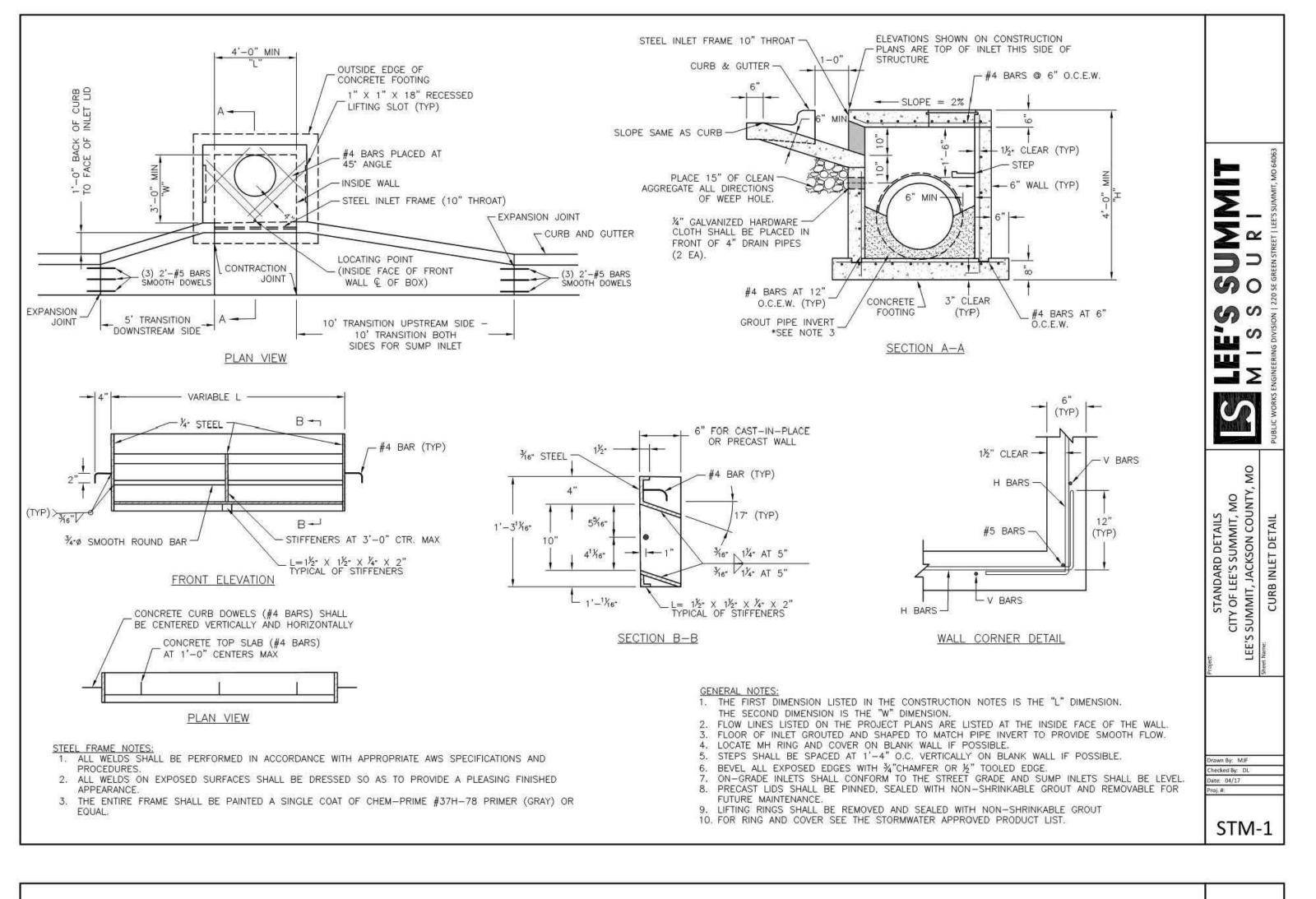
Sheet

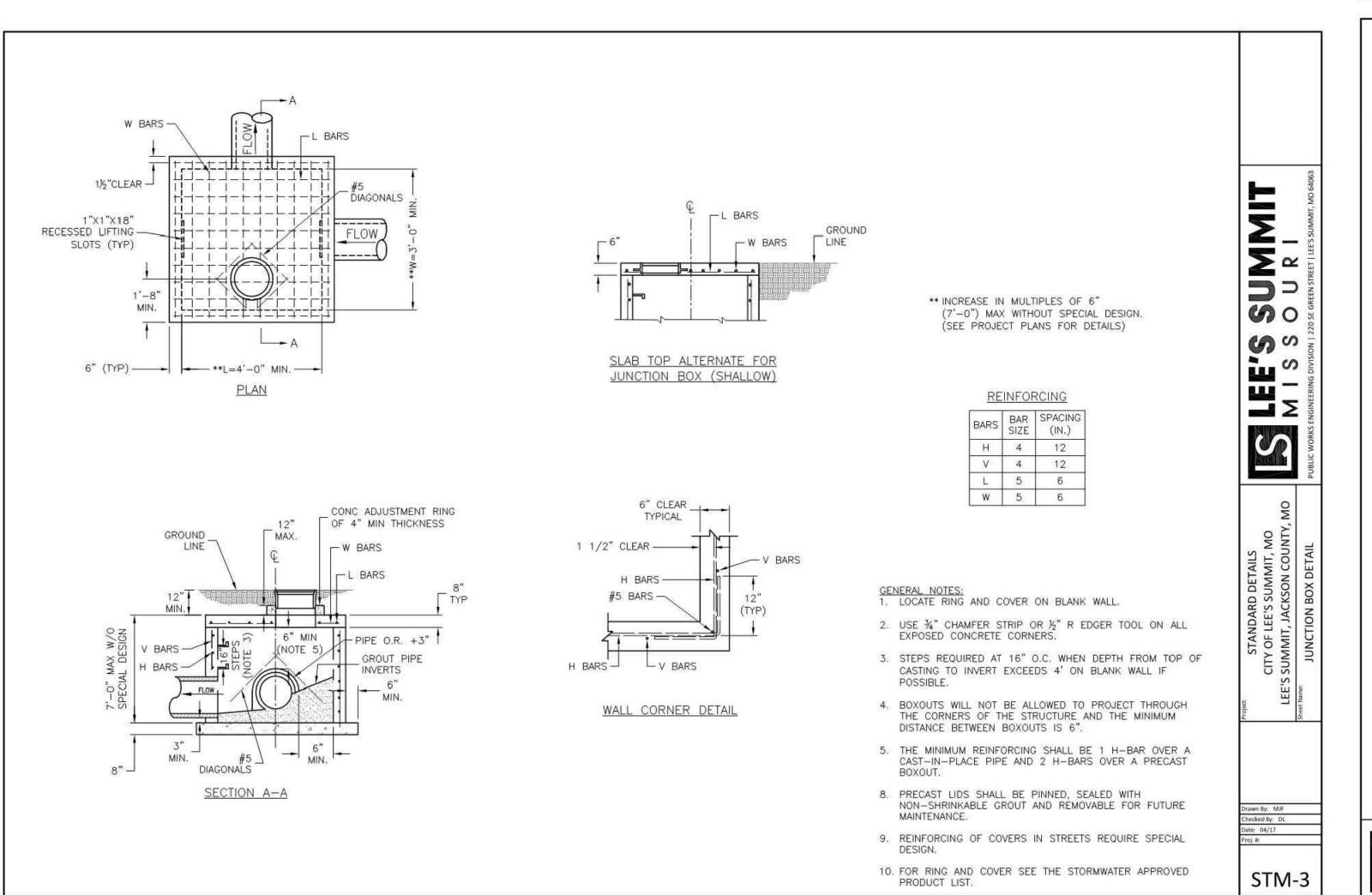
Gen

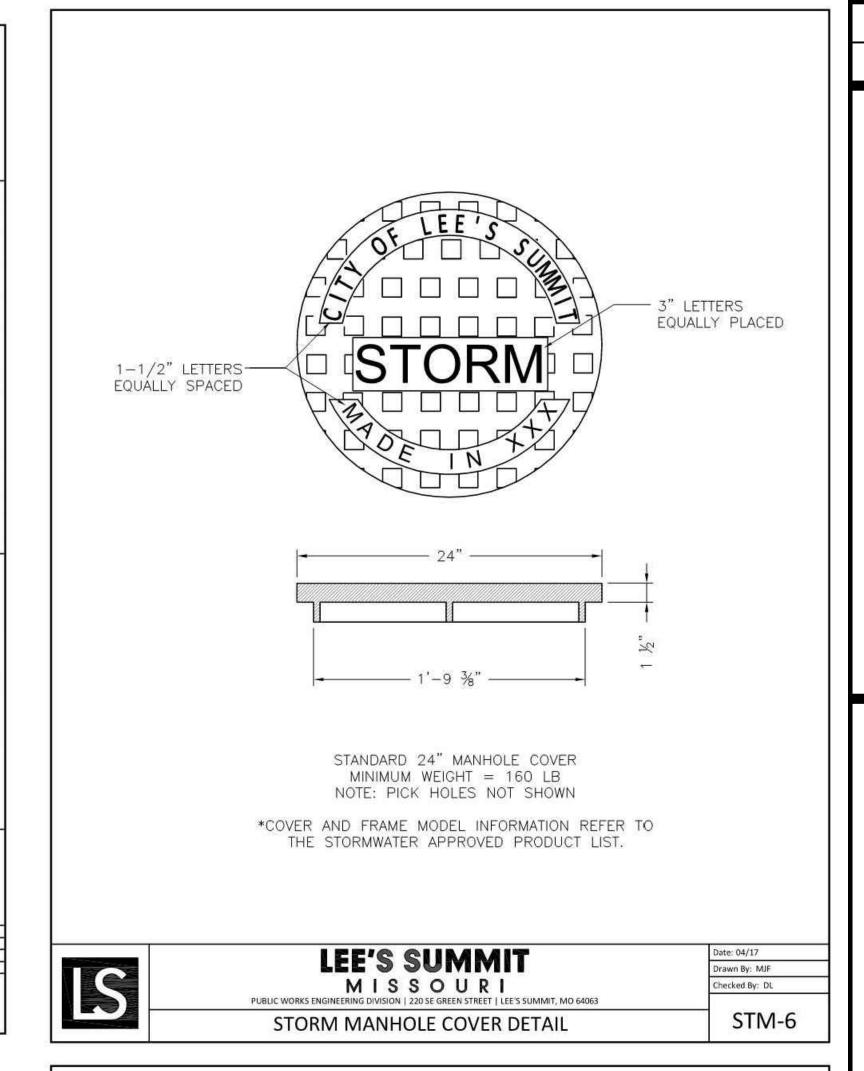
rawn By: MJF

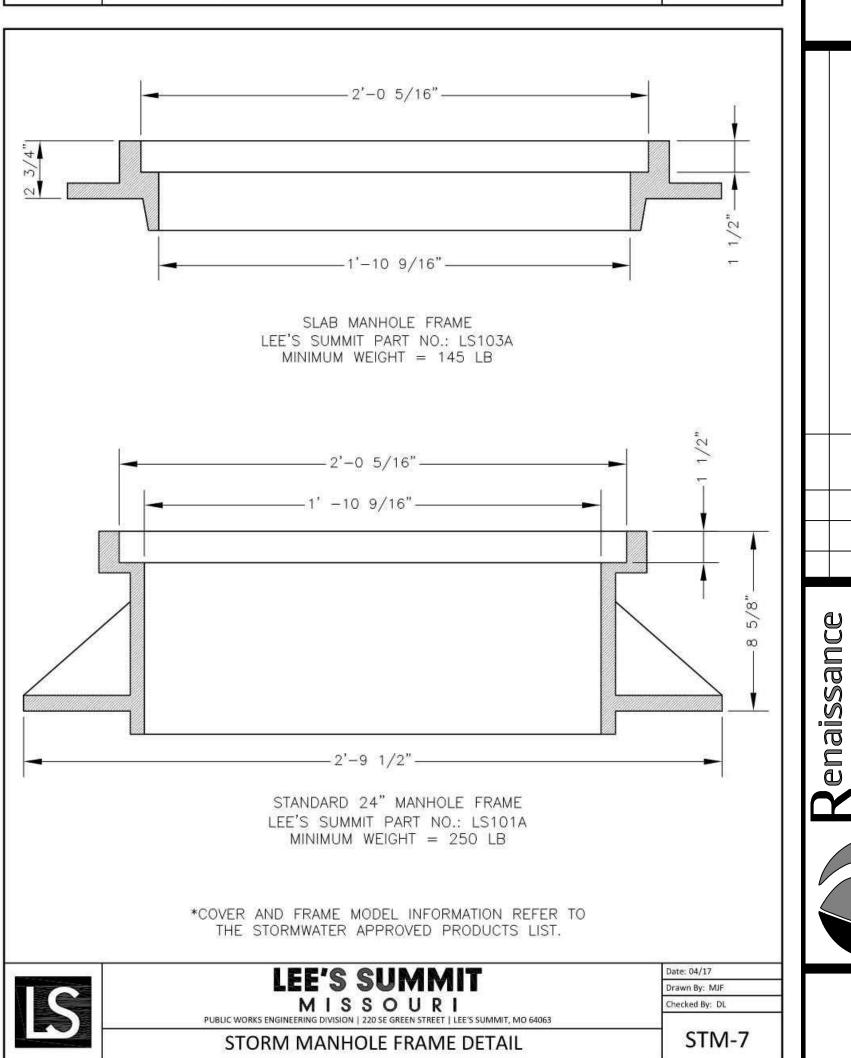
ecked By: DL

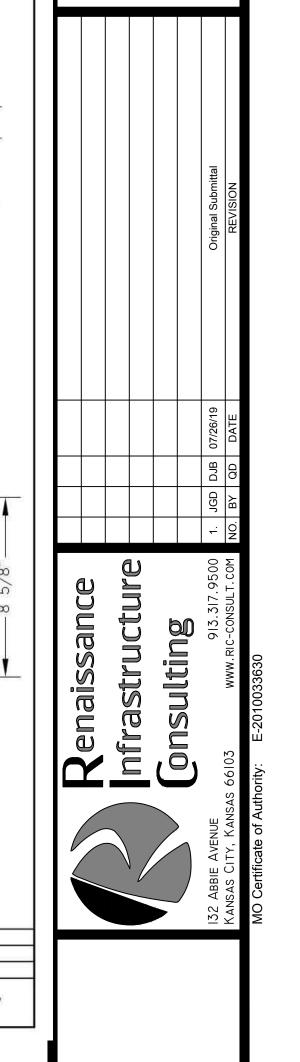
GEN-2





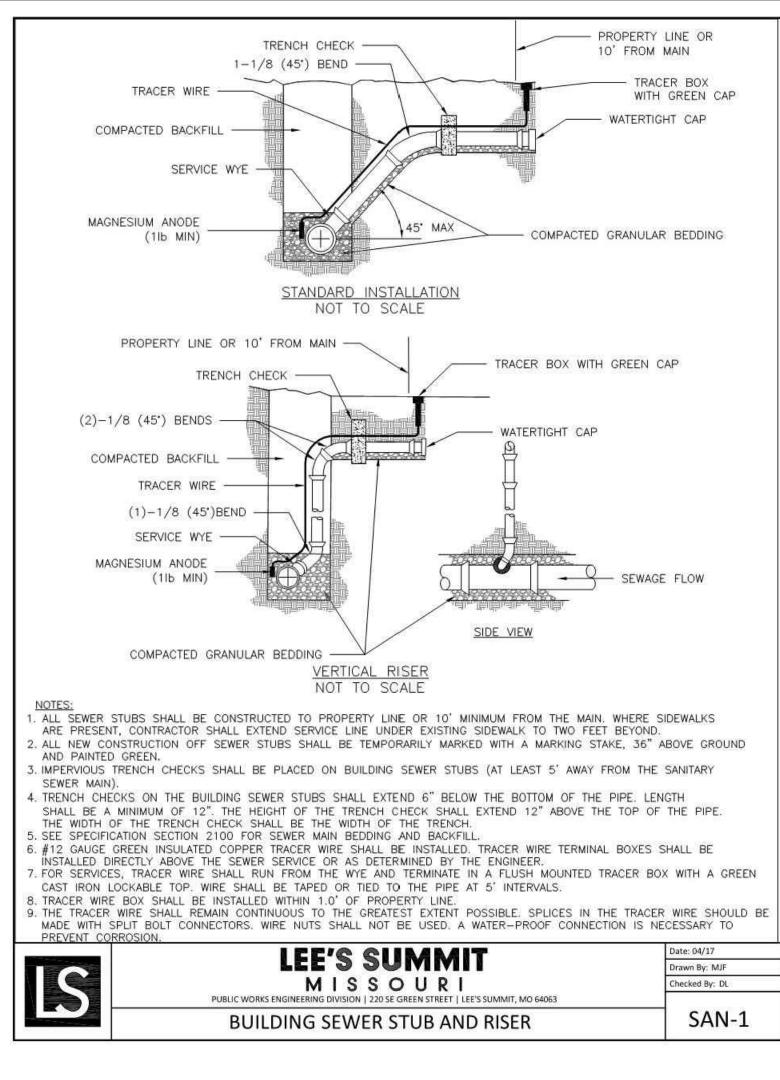


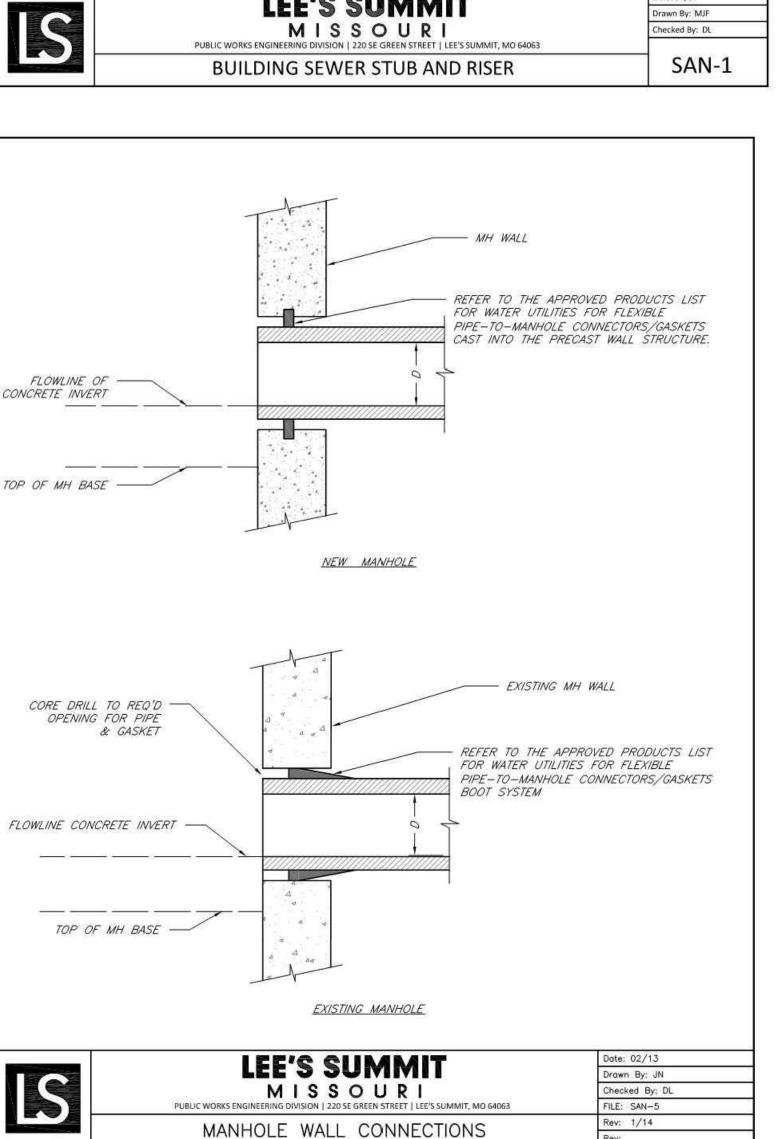


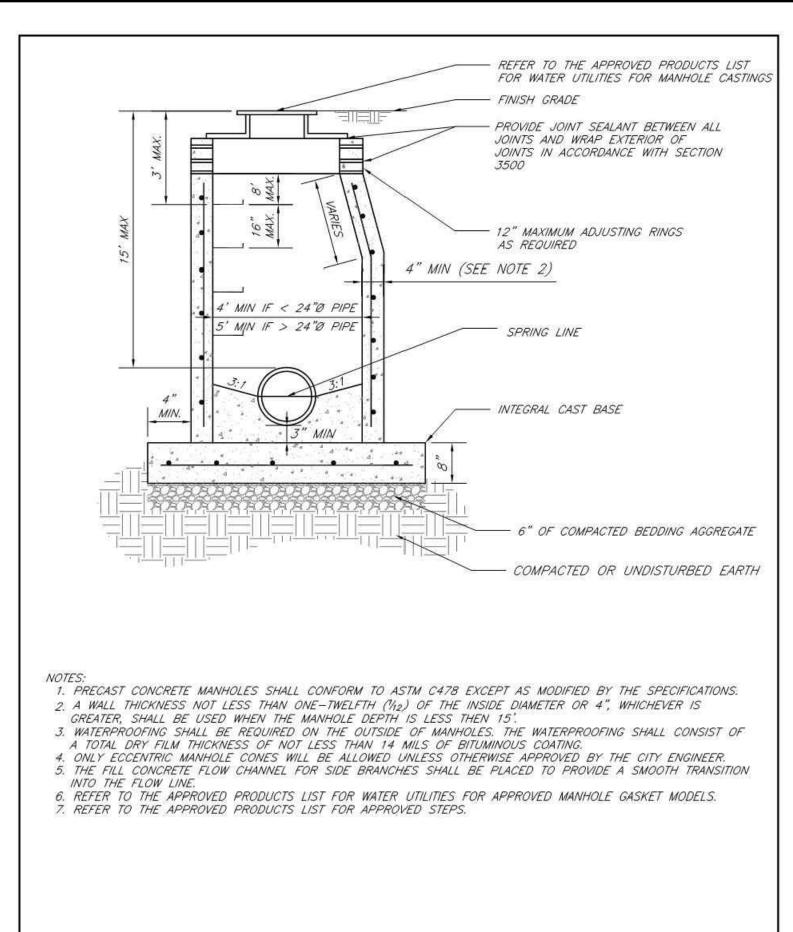


Typical etails-Stor

Sheet







LEE'S SUMMIT

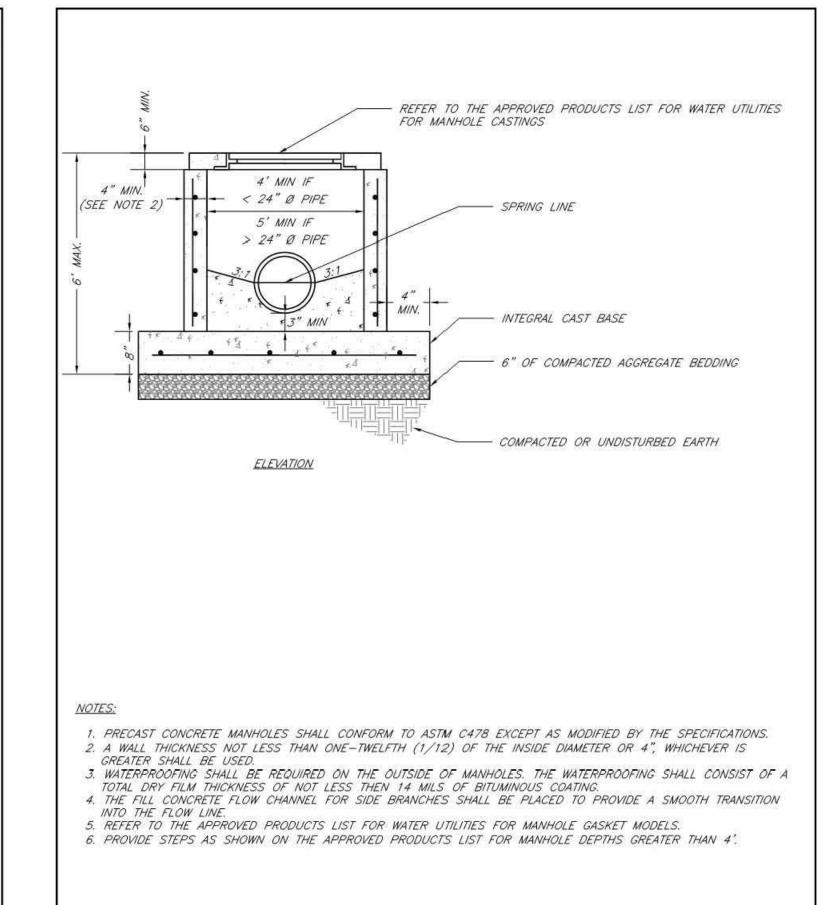
MISSOURI

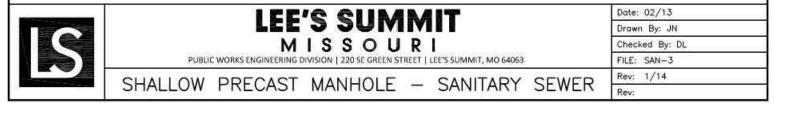
STANDARD PRECAST MANHOLE - SANITARY SEWER

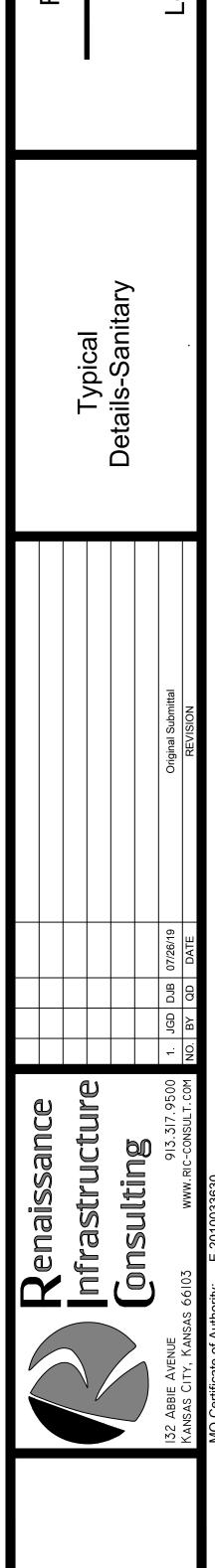
Drawn By: JN

Checked By: DL

Rev: 1/14

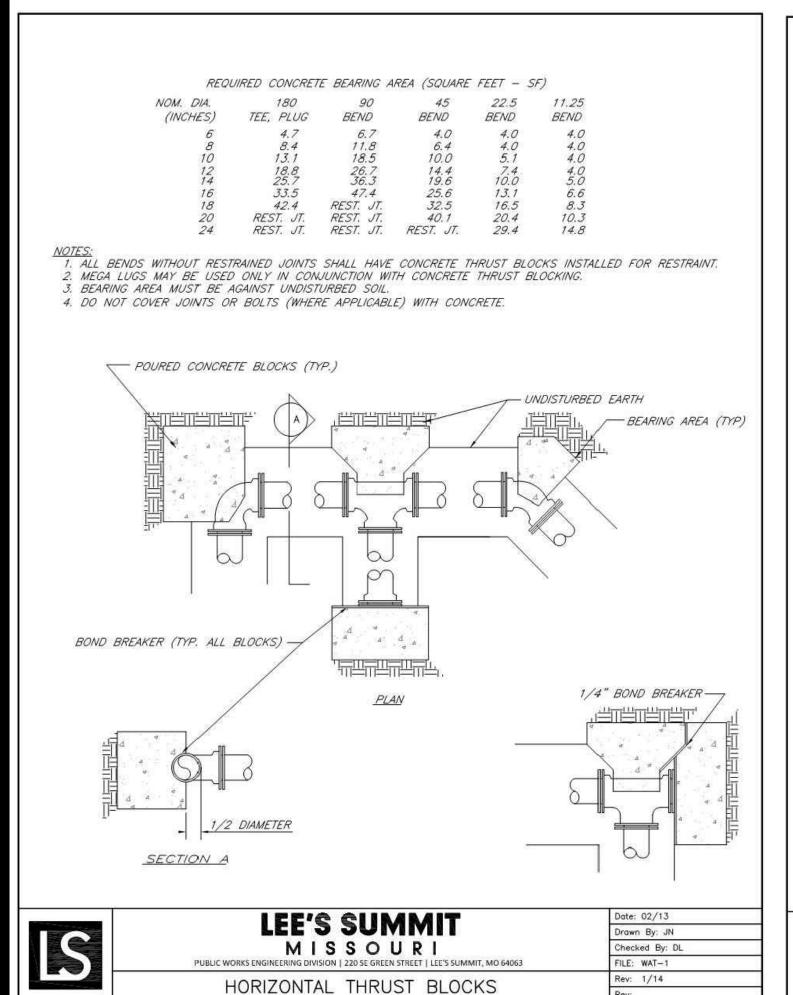


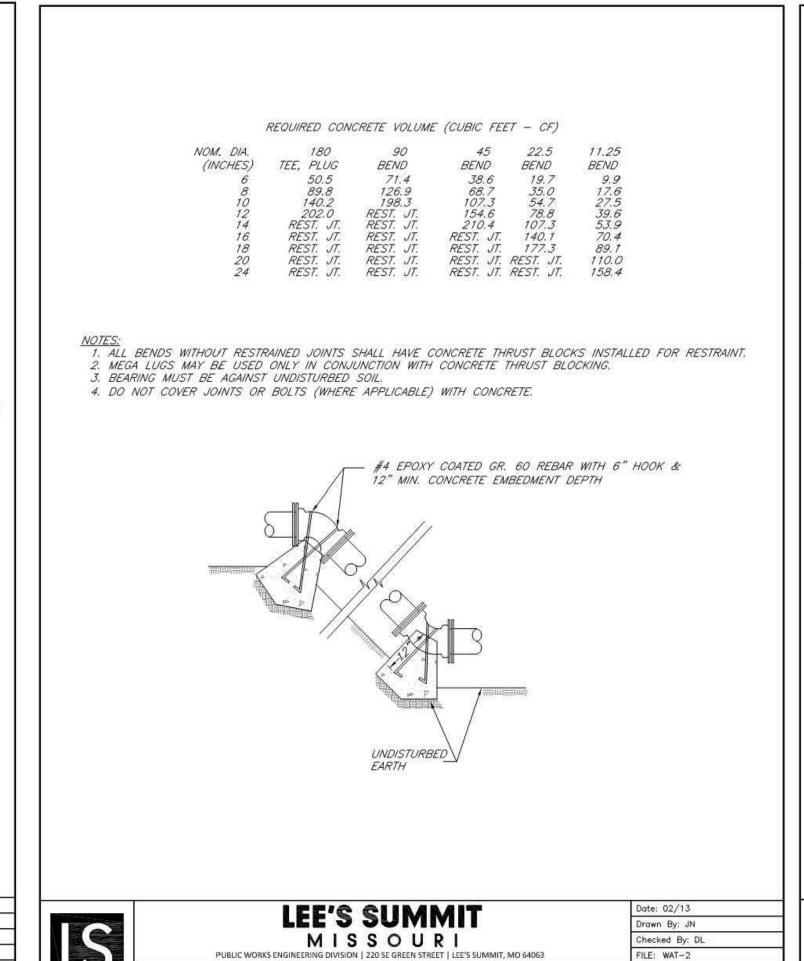




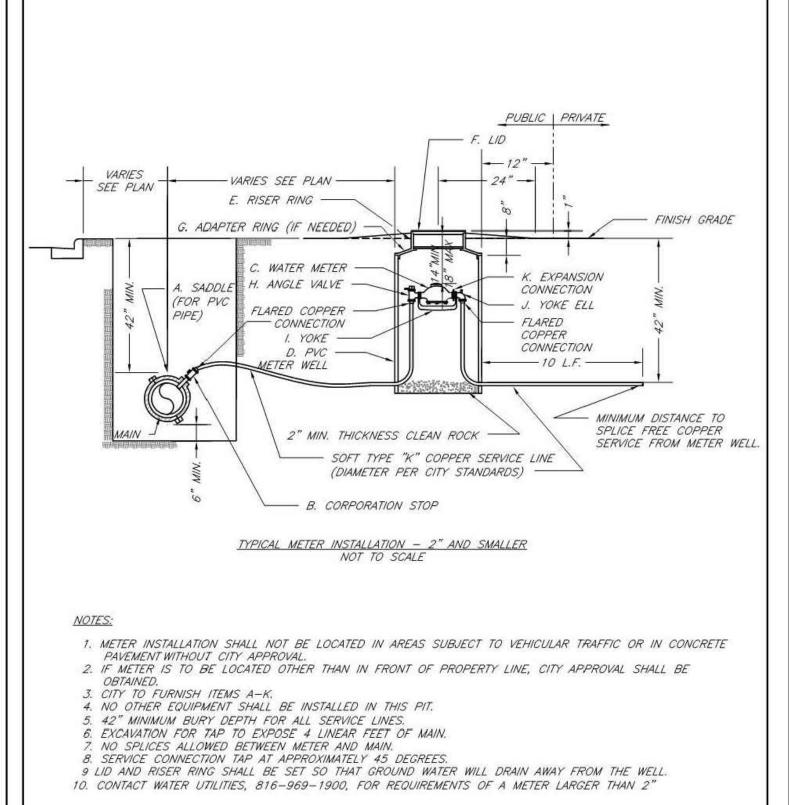
Sheet

9-(At mit





VERTICAL THRUST BLOCKS



LEE'S SUMMIT

MISSOURI

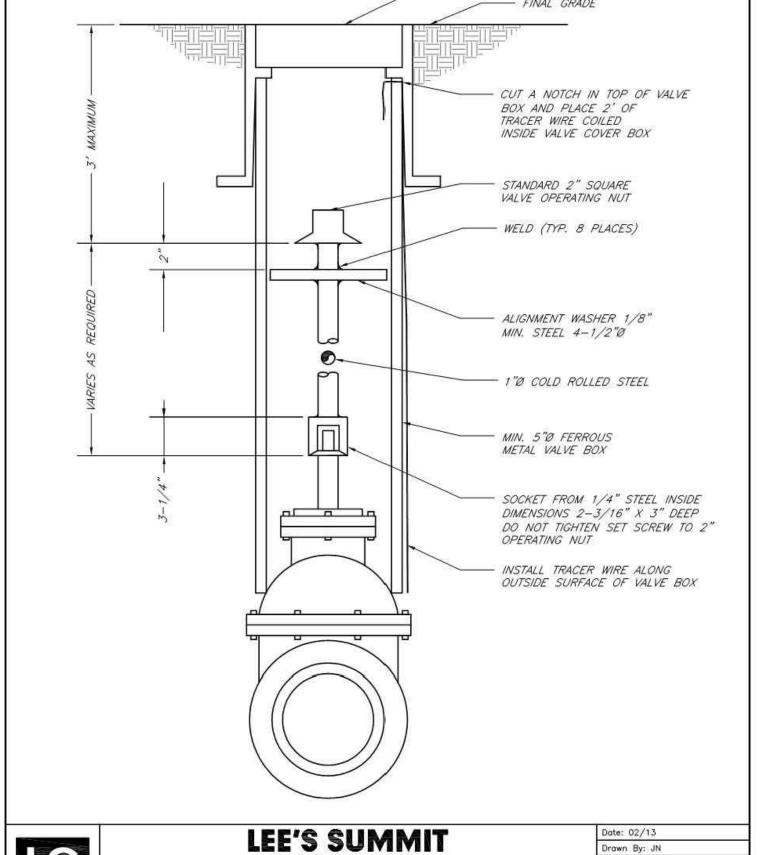
SERVICE CONNECTION/METER WELL

Drawn By: JN

FILE: WAT-11

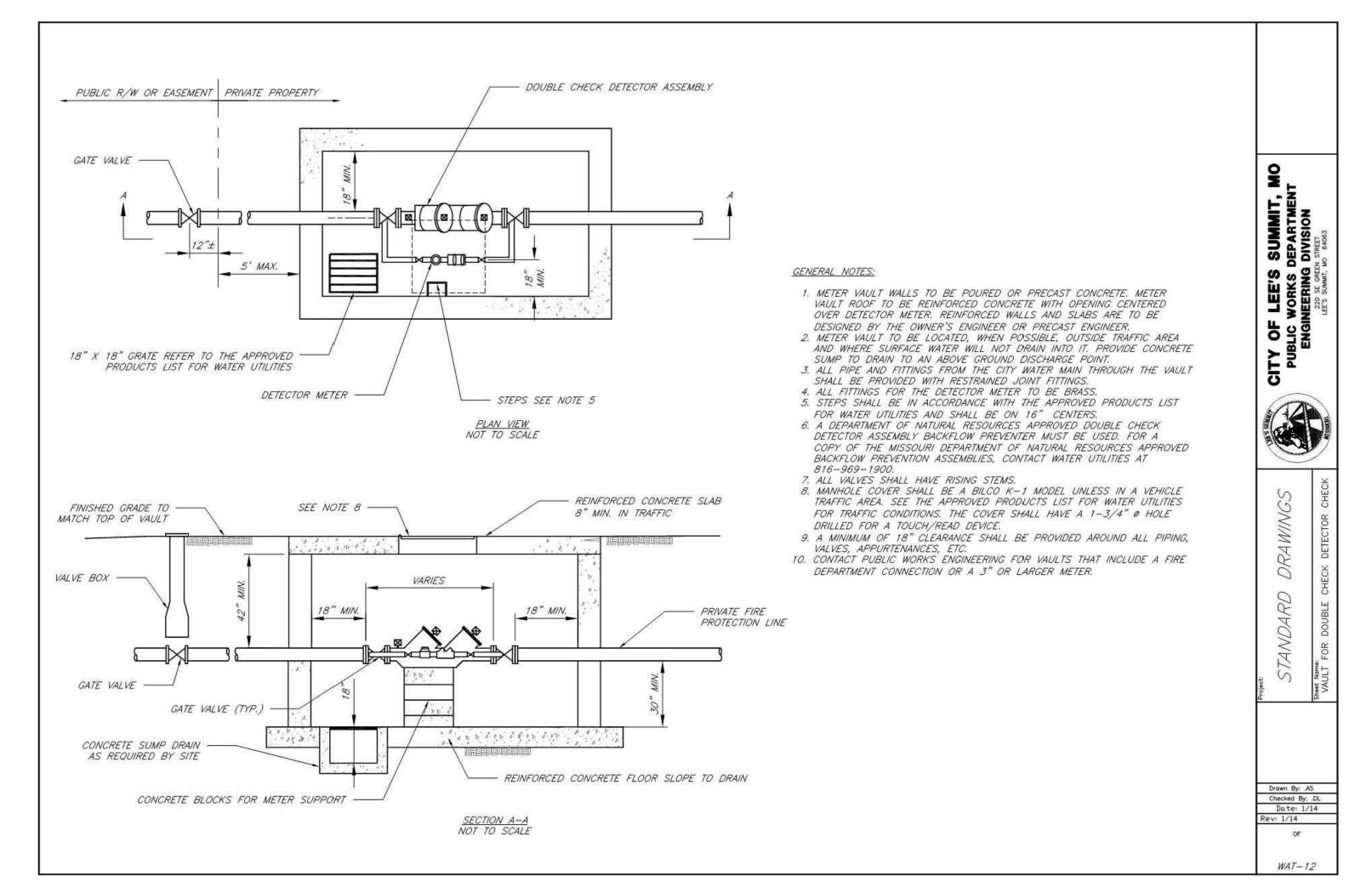
Rev: 1/14

Checked By: DL

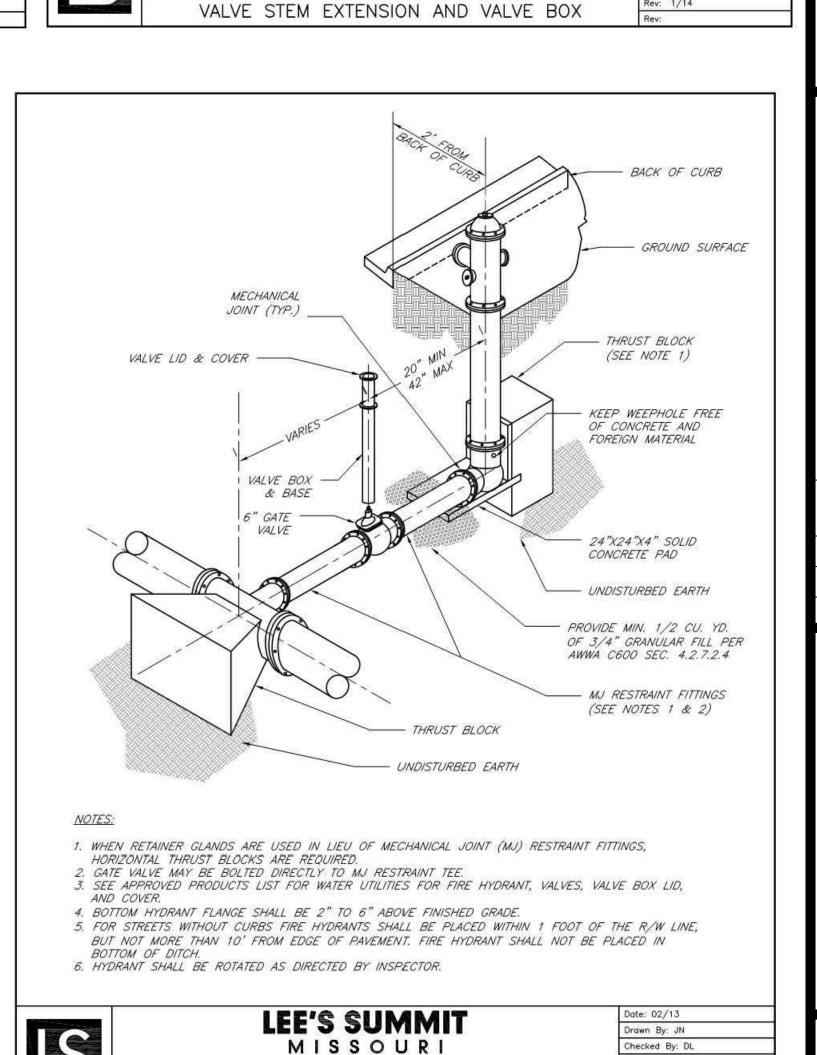


MISSOURI

- VALVE COVER



Rev: 1/14





Checked By: DL FILE: WAT-7 Rev: 1/14 HYDRANT INSTALLATION - STRAIGHT SET

Checked By: DL