

### **Utility Contacts**

Cable - Spectrum

Sanitary - City of Lee's Summit Water - City of Lee's Summit Storm Sewer - City of Lee's Summit Electric - Evergy Gas — Spire

(816) 969-1900 (816) 969-1800 (888) 471-5275 (816) 756-5252 (800) 464-7928 (816) 358-8833

(816) 969-1900

### Local Benchmarks: 👍

<u>BM-1:</u> (Sanitary Sewer Manhole, Center of Lid) Elevation: 1006.88'

N: 1013449.78 E: 2826933.88

<u>BM-2:</u> (Storm Sewer Curb Inlet, Center of Lid) Elevation: 994.34'

N: 1013518.71

E: 2826136.03

### <u>Floodplain Note:</u>

The site lies entirely with "Zone X", areas determined to be outside the 0.2% annual chance floodplain as depicted on the FEMA Flood Insurance Rate Map (FIRM) no. 29095C0430G, Revision Date: January 20, 2017.

### <u>Property Legend</u>

	—— right of way
	property lines
	—— easements
	setbacks
<u>Grading Legend</u>	
	—— existing minor contour
	— existing major contour
	—— proposed minor contour
	proposed major contour
<u> Utility Legend</u>	
	—— existing

<u>Linetypes</u>	
sanm sans	sanitary main sanitary service storm sewer (existing)
stm	storm sewer (solid wall, proposed) storm sewer (solid wall, proposed) storm sewer (perforated, proposed) water main water service (fire) water service (domestic)
wtri	water service (irrigation)  natural gas main  natural gas service schematic  underground primary electric
elsu —	underground secondary electric

underground cable/phone/data underground cable/phone/data service

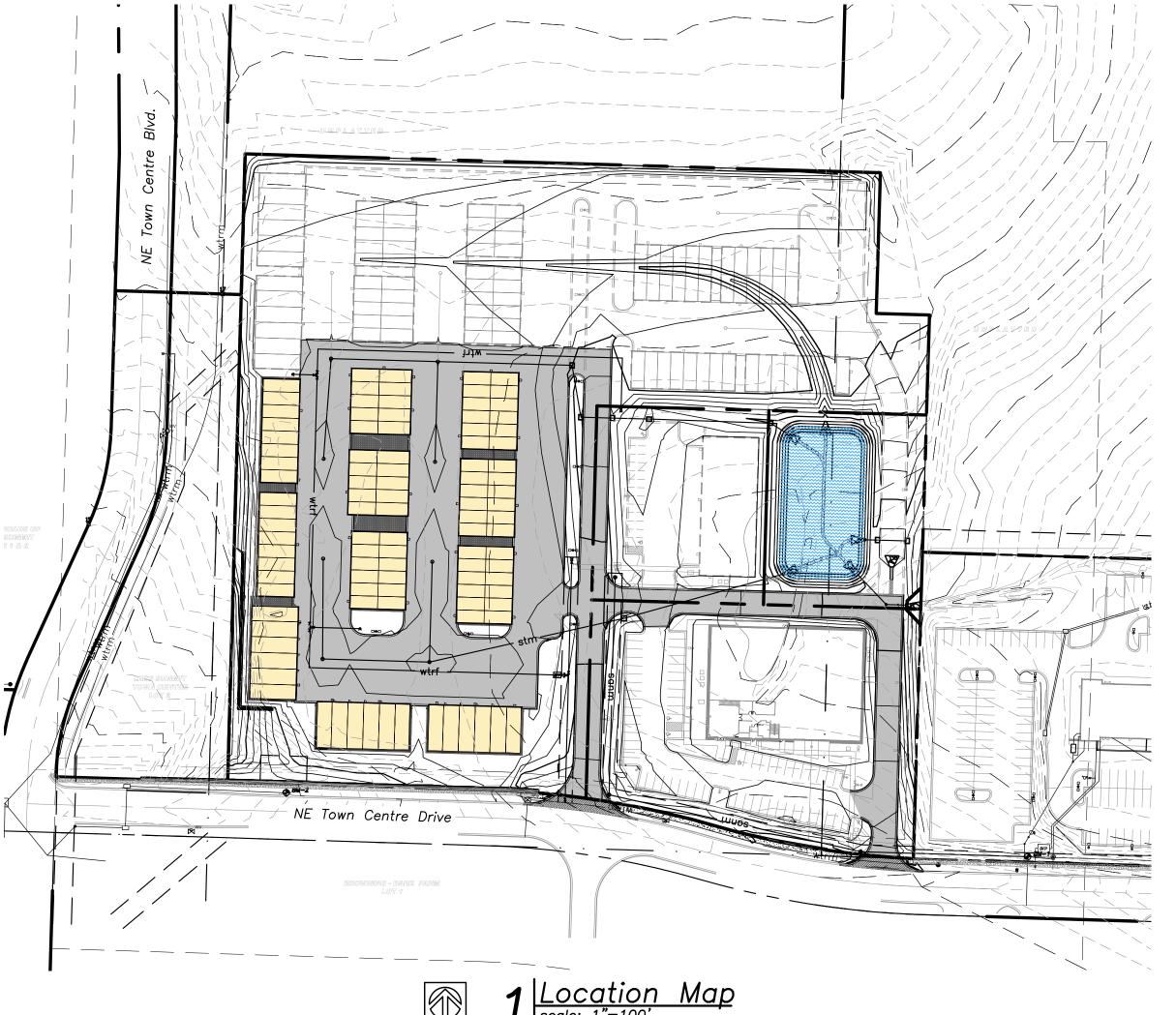
fence-chainlink fence-wood fence-barbed wire treeline

$\bigcirc$	sanitary manhole
oco	service cleanout
$\otimes^{fmv}$	force main release valve
	rectangular structure
	circular structure
Ø	fire hydrant
⊗w∨	water valve
M	water meter
BFP	backflow preventer
$\boxtimes^{\mathcal{G}}$	natural gas meter
T	service transformer (pag
S	primary switch gear

	rectangular structure
	circular structure
<b>S</b>	fire hydrant
wv	water valve
D	water meter
BFP	backflow preventer
 g	natural gas meter
F	service transformer (pad m
3	primary switch gear
<b>\</b>	light pole
	cable/phone/data junction
——	street light
<b>⊕</b>	pedestrian street light
<b>s</b>	electric pole
$\rightarrow$	guy wire
$\supset$	end section

# Final Development Plan for Mega Storage

Section 29, Township 48 North, Range 31 West City of Lee's Summit, Jackson County, MIssouri



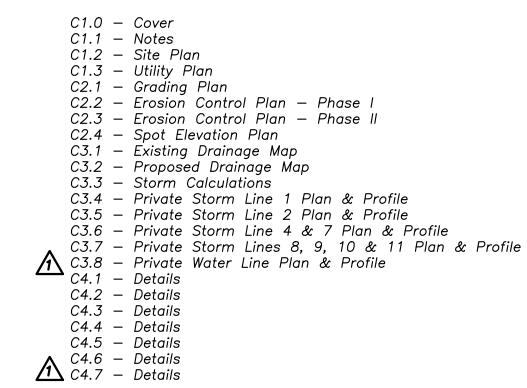
### <u>General Notes</u>

- All work within the road right—of—way shall conform to the technical specifications and design criteria for public improvement projects of the city of Lee's Summit, MIssouri.
- Erosion Control shall be per the Erosion and Sediment Control Program Manual of the City of Lee's Summit, MIssouri.
- All work and materials shall be subject to inspection and approval by the owner or the owner's representative. Any change or deviation from these plans must be authorized by the owner or the owner's representative.
- All traffic control in connection with construction in the right-of-way shall be in conformance with the Manual of Uniform Traffic Control
- The contractor shall be required to provide a stabilized construction entrance to prevent mud from being deposited onto adjacent roads.
- The contractor shall be responsible for obtaining all required permits, paying all fees, and otherwise complying with all applicable regulations
- The contractor shall protect from damage or injury all property including survey monuments, property markers, benchmarks, etc. Items damaged shall be reset by a professional land surveyor licensed in the state of Missouri, at the contractor's expense.
- The contractor shall be responsible for the restoration of the right-of-way and for damaged improvements such as curbs, sidewalks, street light and traffic signal junction boxes, traffic signal loop lead—ins, signal poles, etc. Damaged improvements shall be repaired in conformance with the latest city standards and to the city's satisfaction.
- The contractor shall sod all disturbed areas within the public street right-of-way.
- Paving shall conform to the soils report, and these drawings, any identified discrepancies shall be brought to the attention of the engineer.
- Contractor shall provide 48-hour notification to the city engineering division to schedule all required inspections.
- All concrete for public improvements shall comply with the Standards and Specifications of the Kansas City Metropolitan Materials Board (KCMMB). Structural concrete shall be 5,000 psi and nonstructural concrete shall be 4,000 psi.
- A right-of-way work permit and/or street excavations permit shall be obtained by the contractor to complete all utility work within the public
- According to the MDNR Record Database and Field Survey, there is no evidence suggesting presence of any active, inactive or capped oil and/or gas wells on the property.

## PRCOM20220956



### Sheet Index



### <u>Civil Engineer:</u>

Davidson Architecture & Engineering, LLC Mr. Paul A. Miller, P.E. 4301 Indian Creek Pkwy. Overland Park, KS 66207 Phone: (913) 451-9390 Email: Paul@davidsonae.com

### Owner <u>Information</u>

WHD Management, LLC Josh Wilson PO Box 1059 Lee's Summit, MO 6406 Phone: (816) 935-5019 Email: jjwilson801213@gmail.com

- Boundary information, existing utilities and topographic features shown are based on information supplied by owner, surveyor, and others.
- The existing utility locations shown on these plans are approximate and may not include all utility lines present. The contractor shall be responsible to make One Call and coordinate field location of all existing underground utilities prior to beginning excavation/construction activities.
- The contractor shall be responsible for any damage to any utilities or their structures during excavation/construction activities.
- The contractor shall coordinate and be responsible for connection fees, system development fees, taxes, etc. for all main connections and/or extensions with and from the city and/or respective utility unless otherwise coordinated with the Owner. All utility services for this project shall be coordinated with respective utility company by contractor.
- The contractor shall be responsible for adjusting all at-grade utilities such as manhole covers, valve box covers, etc. to finish grade, whether specifically indicated in these plans or not.
- Utilities shown on the plan with specific elevations and/or structure locations are SUE quality level "B", ie: storm sewer, sanitary sewer, water hydrants & valves, utility poles, etc. All other existing utility information shown is SUE quality level "D", primarily retracement of one—call and city records.

### Americans with Disabilities Act (ADA) Notes:

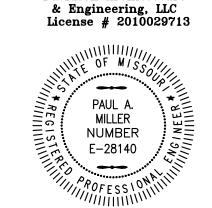
- The running and cross slopes for all sidewalks, accessible paths, ramps, designated parking stalls, etc., shall be in compliance with latest Federal ADA guidelines, in addition to any accessibility standards adopted by the governing municipality. Prior to installation/construction, if any discrepancies are found within the plans, the Engineer
- All ADA parking areas shall have NO slopes greater than 2% in any direction.

### Legal description:

Lot 1, Lee's Summit Town Centre, Lot 1 & Lot 2, A Subdivision In Lee's Summit, Jackson County, Missouri. Containing 505,722.67 sq. ft. or 11.61 acres more or less.

4301 Indian Creek Parkway Overland Park, KS 66207 phone: 913.451.9390 fax: 913.451.9391 www.devidsonee.com

Davidson Architecture



Paul A. Miller License # E-28140

elopme

date 02.18.2022 drawn by JMP checked by PAM

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revisions 03.18.2022

**RELEASED FOR** CONSTRUCTION As Noted on Plans Review

Lee's Summit, Missouri 04/27/2022

sheet number

### **General Notes:**

- The Contractor shall be responsible for obtaining all required permits, paying all fees, and otherwise complying with all applicable regulations governing the project.
- All materials, workmanship, and construction shall meet or exceed the city standards. Where there is conflict between these plans and standards, the higher quality standard as determined by the engineer shall apply. All work shall be inspected and approved by contractor.
- All work and materials shall be subject to inspection and approval by the owner or the owner's representative. Any change or deviation from these plans must be authorized in writing by the owner or the owner's representative prior to work being completed.
- The work associated with and based on these plans, shall be subject to the requirements of, and conform to, the Municipal Code of Lee's Summit. Missouri, and the standards and specifications in current use. The standards, specifications, details, and procedures sub-referenced therein are hereby incorporated by reference.
- Lineal foot measurements shown on the plans are horizontal measurements, not slope measurements. All payments shall be made on horizontal measurements.
- No geological information is shown in these plans.

the geotechnical report shall be used.

- Prior to commencement of work, the contractor shall notify all utility companies which have facilities in the near vicinity of the construction to be performed.
- All waste material resulting from the project shall be disposed of off—site in an approved landfill. All excavation shall be unclassified. No separate payment will be made for rock excavation. Contractor is responsible for all haul off
- The Contractor shall be required to provide a stabilized construction entrance to prevent mud from being deposited onto adjacent roads.
- All mud, dirt, and debris tracked onto the parking lot or any roadway shall be removed immediately by the contractor.
- The Contractor shall be responsible for keeping the public streets in the vicinity of the job site clean and free of rocks, soil and debris. Streets and/or parking areas will be scraped and swept on a daily basis by the general contractor.
- The Contractor shall protect from damage all survey monuments, property markers, benchmarks, etc. Items damaged shall be reset by a professional land surveyor licensed in the state of Missouri, at the contractor's expense.
- Paving shall conform to the minimum design standards as required by the city and these drawings. If a geotechnical report is provided for the project, the greater pavement requirement between the city's minimum design standards and
- A pre-construction meeting shall be scheduled between the Contractor and Development Services Inspections with a minimum of 48 hours notice. Please contact (816) 969—1200 to schedule this pre—construction meetina.
- All concrete for public improvements shall comply with the city standards and specifications. If no city standards and specifications are provided, then the contractor shall comply with the standards and specifications of the Kansas City Metropolitan Materials Board (KCMMB) unless otherwise noted. Structural concrete shall be 5,000 psi and nonstructural concrete shall be 4,000 psi.
- The contractor shall be responsible for the restoration of the right—of—way and for damaged improvements such as curbs, sidewalks, street light and traffic signal junction boxes, traffic signal loop lead—ins, signal poles, etc (offsite and onsite). Damaged improvements shall be repaired in conformance with the latest city standards and to the city's satisfaction.
- All work within the road right-of-way shall conform to the technical specifications and design criteria for public improvement projects of the city of Lee's Summit, MIssouri A right—of—way work permit and/or street excavations permit shall be obtained by the contractor if required to complete all work within the public right-of-way.
- All traffic control in connection with construction in the right—of—way shall be in conformance with the Manual of Uniform Traffic Control Devices and/or the jurisdictional authority. It is the contractor's responsibility to obtain a traffic control permit if required.
- All waste materials, trash and construction debris shall be collected and stored in dumpsters. No construction waste shall be buried on site. All hazardous waste materials will be disposed of in the manner specified by local, state and federal regulations. Site personnel shall be instructed in these practices, and the construction manager shall be responsible for seeing that these practices are followed.
- Recommendations made by the geotechnical engineer, to be retained by the owner, and contained in the geotechnical report shall govern project conditions unless noted otherwise. Paving shall conform to the the greater pavement requirement between the city's minimum design standards and the recommendations made in the geotechnical report.
- The Contractor shall grade areas to provide positive drainage.
- The contractor shall be responsible for the coordination of work between suppliers and subcontractors involved in the project, including staging of construction details.
- All disturbed areas shall be maintained for dust control. Sprinkling tank trucks shall be available at all times & used on on—site disturbed areas, and other areas where dust becomes a problem as a result of construction activity.
- Nothing indicated on these drawings shall relieve the contractor from complying with appropriate safety regulations. **Utility Notes:**
- Boundary information, existing utilities and topographic features shown are based on information supplied by owner, surveyor, and others.
- The existing utility locations shown on these plans are approximate and may not include all utility lines present. The contractor shall be responsible to contract "One Call" and coordinate field location of all existing underground utilities prior to beginning excavation/construction activities.
- The contractor shall be responsible for any damage to any utilities or their structures during excavation/construction activities. Utilities include but are not limited to a service such as electricity, communication, water, public transportation (including traffic signals), storm systems, and items provided by a public utility.
- The contractor shall coordinate and be responsible for connection fees, system development fees, taxes, etc. for all main connections and/or extensions with and from the city and/or respective utility unless otherwise coordinated with the Owner. All utility services for this project shall be coordinated with respective utility company by contractor.
- The contractor shall be responsible for adjusting all at-grade utilities such as manhole covers, valve box covers, etc. to finish grade, whether specifically indicated in these plans or not.
- Utilities shown on the plan with specific elevations and/or structure locations are SUE quality level "B", ie: storm sewer, sanitary sewer, water hydrants & valves, utility poles, etc. All other existing utility information shown is SUE quality level "D", primarily retracement of one—call and city records.
- Refer to mechanical, electrical, and plumbing (MEP) plans for utility service sizes and exact locations. Refer to site electric plans for electric construction details.
- Provide temporary support for existing utility lines that are encountered during construction until backfilling is complete.
- Backfill all utility trenches according to the most recent edition of the jurisdictional standards.
- All utilities shall be brought within 5' of the building to connect to plumbing contractors work unless otherwise specified.
- The Contractor shall adjust all utility fixtures, manholes and inlets to finished grade as required.
- The Contractor shall maintain 18" minimum vertical clearance between storm sewer and sanitary sewer pipes and 18" minimum vertical clearance between sanitary sewer and water main unless otherwise specified.
- Contractor shall prevent entry of mud, dirt, debris, and other material into new and existing storm sewer systems. Should any contamination occur during construction, the contractor shall clean at contractor's expense. Upon completition of all storm sewer improvements, all new and existing pipe and structures shall be cleaned out.
- Electrical, liahtina, and data conduit layout shown is for graphical purposes only. See MEP plans for more detail.
- The Contractor shall provide all temporary power, process, and utility service bypasses and connections as required.

### Erosion Control Notes:

- The construction of the sediment basin, installation of the silt fencing, the maintenance of the drainage swales, and the construction of the stabilized entrance shall be completed first, prior to any clearing and grading of any portions of the site. The Disturbed portions of the site where construction activities have permanently ceased shall be stabilized with permanent seeding no later than 14 days after the last construction activity, refer to SWPPP. Roadway swales shall be stabilized with Erosion Control Devices. Once construction activity ceases permanently in an area, that area shall be stabilized with permanent seed and mulch. Only after the entire site has been stabilized, the silt fencing shall be removed.
- The general contractor, or designated Erosion Control Contractor, shall be responsible for construction and maintenance of erosion control devices and practices. The contractor shall be responsible for implementation of, and ensuring compliance of, the project Storm Water Pollution Prevention Plan (SWPPP), a copy of which shall be obtained from the Design Engineer. The SWPPP shall be maintained on site per NPDES requirements and shall be available for review at any time, by any authorized Federal. State, or local review official, as well as the Desian Enaineer. The general contractor, or designated Erosion Control Contractor, shall also be responsible for ensuring compliance with, and paying any fees associated with, the State of Missouri General Permit for Stormwater Runoff associated with construction activities, a copy of which shall be maintained in the aforementioned SWPPP.
- This project shall be constructed in compliance with the land disturbance permit, and conform to the standards and specifications of the city of Lee's Summit, MIssouri, prior to any land disturbance changes.
- Erosion and any sedimentation from work on this site shall be contained on the site and not allowed to collect on any offsite areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes and ponds. Refer to erosion control plans for more information.
- The contractor shall be responsible to control downstream erosion and siltation during all phases of construction. Erosion Control work and procedures shall be in place prior to beginning excavation/construction activities. To ensure progressive stabilization of disturbed earth. Erosion control devices shall be staged, installed and maintained throughout land disturbance activities as directed in the drawings, project manual and in accordance with all federal, state and local standards until the site is stabilized.
- The contractor shall implement and maintain Erosion Control Devices as shown in the drawings and project manual before, and at all times during the construction of this project. Any modifications to the devices due to construction or changed conditions shall be complied with as required or as directed by the city of Lee's Summit, MIssouri.
- The contractor shall be responsible for installation and maintenance of all Erosion Control Devices. This includes providing berms, silt fence, or other means to prevent erosion from reaching the right of way and offsite boundaries. In the event the prevention measures are not effective, the contractor shall remove any debris and erosion, restoring the right of way to original or better condition.
- Contractor is to provide erosion protection for all storm sewer inlets.
- If any of the Erosion Control Devices on the site are deemed inadequate or ineffective, the city of Lee's Summit, MIssouri has the right to require additional Erosion Control measures at the expense of the general contractor.
- If any pump-driven dewatering is needed, it shall be discharged though a filter bag over a well-vegetated area. The pump must discharge at a non-erosive velocity. If necessary, an approved energy dissipater may be used.
- Permanent BMP's for any disturbed land area shall be completed by the general contractor within 5 calendar days after final grading or the final earth change has been completed. When it is not possible to permanently stabilize a disturbed area after land disturbance activity ceases, temporary Erosion control devices shall be implemented immediately. All temporary Erosion Control Devices shall be maintained until permanent BMP devices are implemented. All permanent BMP's will be implemented and established before a certificate of compliance is
- Strip topsoil only from those areas that will be disturbed by excavation, filling, road building, or compaction by equipment. Refer to the geotechnical report for depths of stripping. Put sediment basins, diversions, and other controls into place before stripping.
- When topsoiling, maintain needed erosion control practices such as diversions, grade stabilization structures, berm, dikes, level spreaders, waterways and sediment basins.
- Grades on the areas to be topsoiled which have been previously established shall be maintained.
- Bonding Immediately prior to dumping and spreading of topsoil, loosen the subgrade by discing or scarifying to a depth of at least 4", to permit bonding of the topsoil and subsoil.
- The general contractor shall inspect the Erosion Control Devices once every 14 days under any circumstances. within 24 hours of rainfall, and daily during a prolonged rain event unless otherwise noted in the SWPPP or by the jurisdictional authority. A log of inspection report shall be maintained and accessible in accordance with National Pollution Discharge Elimination System (NPDES) requirements. Any required maintenance shall be provided
- Install silt fence, inlet filters, and other Erosion Control Devices as indicated in the drawings, per APWA and authority regulations, and at additional affected areas as necessary. Build—up of sediment shall be removed promptly per authorities regulations. If silt fence decomposes or becomes ineffective prior to the end of expected usable life and the barrier is still required, the silt fence shall be replaced promptly. Sediment shall be removed from sediment traps or basins when design capacity has been reduced to 50%. Contractor shall flare the ends of the silt fence uphill in order to temporarily impound runoff.
- Earthen berms shall be regularly inspected, and inspected after each rainfall event. Repairs to earthen berms shall be made immediately. If the earthen berm shows signs of erosion, and it is determined that material must be added to fix the berm, the material shall be properly placed, compacted and reseeded. The berm shall be reseeded and stabilized, as needed, to maintain its soundness whether or not there has been any rainfall.
- Drainage swales shall be inspected regularly and after every rainfall event. Repairs to drainage swales shall be made immediately. If the flow channel and/or outlets show signs of deficiency, the damaged area(s) shall be restabilized and reseeded, as needed, to prevent further damage. If additional measures are needed to eliminate issues, contractor shall notify the engineer for possible modifications.
- Refer to the jurisdictional authority for temporary gravel construction entrance details. If not specified, refer to APWA standards. The entrance and exit areas of the project shall be cleared of all vegetation, roots, and other objectionable material. The gravel shall be placed to the proper dimensions and graded to a smooth and even slope. Construction entrance drainage shall be provided to carry water to a sediment trap or other suitable outlet.

### Stockpiling Notes:

- Select stockpile location to avoid slopes and natural drainageways, avoiding traffic routes. On large sites, re-spreading is easier and more economical where topsoil is stockpiled in small piles located near areas where they will be used.
- Sediment Barriers Use sediment fences or other barriers where necessary to retain sediment.
- Temporary Seeding Protect topsoil stockpiles by temporarily seeding as soon as possible, not to exceed 14 days. weather permitting, after the formation of the stockpile.
- Permanent Vegetation If stockpiles will not be used within 12 months, they must be stabilized with permanent vegetation to control erosion and weed growth.
- All stockpiled soils shall be maintained in such a way as to prevent erosion from leaving the site. Silt fence must be installed around the perimeter of the stockpile.

### <u>Seeding Notes:</u>

or oats at 100lbs. per acre.

seeding. Apply the mixture at 2lbs. per 1000ft<sup>2</sup>

re—seedings within the same season, if possible.

Seeding shall be as follows unless otherwise stated in the landscape plans.

more than 1" deep, and grasses and legumes no more than  $\frac{1}{2}$ ".



• Annual rye grass, wheat, or oats should be used for temporary seeding. Apply rye grass at 120lbs. per acre, wheat

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---PAUL A. MILLER NUMBER E-28140 *٠٠٠.* --- . PROFESSIONA

> Paul A. Miller License # E-28140

Demolition Notes:

for proper installation.

operations.

• At the site, the Contractor shall maintain the required documents for immediate review, included but not limited to: Site Safety Plan, Demolition Permits, Street Closure Permits, Contract Documents, Demolition Plans, Salvage Verification Forms, SWPPP Etc.

• A mixture of 65% kentucky bluegrass and 35% chewing fescue or creeping red fescue should be used for permanent

complete grading according to the approved plan. Lime and fertilizer needs should be determined by soil test. Apply

seasons when satisfactory growing conditions exist. The planting operations shall not be performed during times of

• Seed should be labeled in accordance with U.S. Department of Agriculture rules and regulations under the federal seed

act and comply with the requirements of the Missouri seed law. Labels contain important information on seed purity,

• Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydroseeder. Small grains should be planted no

• Generally, a permanent stand of vegetation cannot be determined to be fully established until soil cover has been

The Contractor shall seed all disturbed areas unless otherwise noted by landscape plans. Immediately after seeding,

• The Contractor shall sod all disturbed areas within the public street right-of-way. Refer to city and state standards

mulch all seeded areas with unweathered small grain straw, spread uniformly at the rate of 1-2 tons per acre or

100lbs (2-3) bales) per 1000ft<sup>2</sup>. The mulch should be anchored with disc type mulch anchoring tool or other means

maintained for one full year from planting. Inspect seeded areas for failure and make necessary repairs and

approved by owner's representative. The contractor assumes full and complete responsibility for all such plantings and

extreme drought, when ground is frozen or during times of other unfavorable climatic conditions unless otherwise

• Seedbed preparation—Install necessary mechanical erosion and sedimentation control practices before seeding, and

the lime and fertilizer evenly and incorporate into the top 4"-6" of soil by discing or other suitable means.

germination, and presence of weeds. Weed seed should not exceed 1.0% by weight of the mixture.

as approved by the jurisdictional authority. Mulch matting may be used in lieu of loose mulch.

All seeding shall be performed during favorable weather conditions and only during normal and accepted planting

- The Contractor shall notify all utility companies for field verification and disconnection of utilities prior to any work. Coordination is required for both temporary and permanent utility services that serve the site including, but not limited to: water lines, power, telephone, cable, storm sewer, sanitary sewer with the city and/or respective utility.
- The Contractor is specifically cautioned that the locations and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. Contractor shall contact One Call utility information service for utility locates. The Contractor must call the appropriate utility companies at least 72 hours before any excavation to request exact field location of utilities. The Contractor shall also coordinate and allow access for utility companies to perform any disconnection or relocation activities. It shall be the responsibility of the Contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.
- Remaining building structures and remaining utility services shall be protected from damage. Damage to any existing features to remain will be replaced at the Contractor's expense.
- Areas disturbed during demolition shall be thoroughly evaluated by the geotechnical engineer responsible for site preparation prior to placement of structural fill. All disturbed soils shall be undercut prior to placement of structural fill, per the geotechnical recommendations. Contractor shall notify the geotechnical engineer at least 72 hours prior to placement of structural fill.
- Excavations created by the removal of any existing utility lines that extend below design grades shall be cut thoroughly evaluated by the geotechnical engineer prior to placement of fill. If existing utilities are to be left in-place, existing trench backfill shall be evaluated in accordance with the recommendations of evaluation of existing fill.
- The Contractor shall be responsible for obtaining all Federal, State, and local permits, obtaining all inspections, and shall conform to all governing codes and regulations required to perform necessary abatement during demolition, should hazardous materials be encountered.
- Contractor is responsible for legally disposing of all materials and associated cost of interim storage facilities.
- For tree & stump removal, the Contractor shall remove all root systems from the site not designated to be saved. Materials disturbed during removal of stumps shall be undercut and replaced with structural fill. A zone of desiccated soils may exist in the vicinity of the trees. The desiccated soils have a higher swell potential and shall be undercut and replaced with structural fill.
- No construction waste shall be buried on site. All hazardous waste materials will be disposed of in the manner specified by local, state and federal regulations.

### Retaining Wall Notes:

- Site retaining wall improvements shall be designed by a licensed professional engineer retained by the contractor. The wall engineer and contractor shall satisfy themselves of the conditions of the surrounding site features and any interactions with the proposed improvements.
- Retaining wall design drawings and specifications shall be provided to the owner and owner's representative for review and approval. All retaining wall designs shall be signed and sealed by a registered Professional Engineer licensed in the state of Missouri. Design services shall be included in retaining wall pricing.
- Refer to Retaining Wall drawings for wall information. Civil plan set shall only be used for general location and spot elevations.
- The Contractor is responsible for coordinating all inspections, certifications, permits, fees and close out of the wall unless otherwise determined. Contractor shall notify wall design engineer for final inspection. Contractor shall include in construction cost for all of the above items related to the installation of the retaining wall.
- Any wall shown is a schematic representation of the proposed walls. The spot elevations denoting retaining walls are provided on the site grading plan.
- If the wall is greater than 30" and is in an accessible area, guard rails are required per code.

& Engineering, LLC License # 2010029713

sheet number

**RELEASED FOR** 

CONSTRUCTION As Noted on Plans Review

Lee's Summit, Missouri

04/27/2022

development for

ek

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date

JMP

PAM

02.18.2022

checked by

drawn by

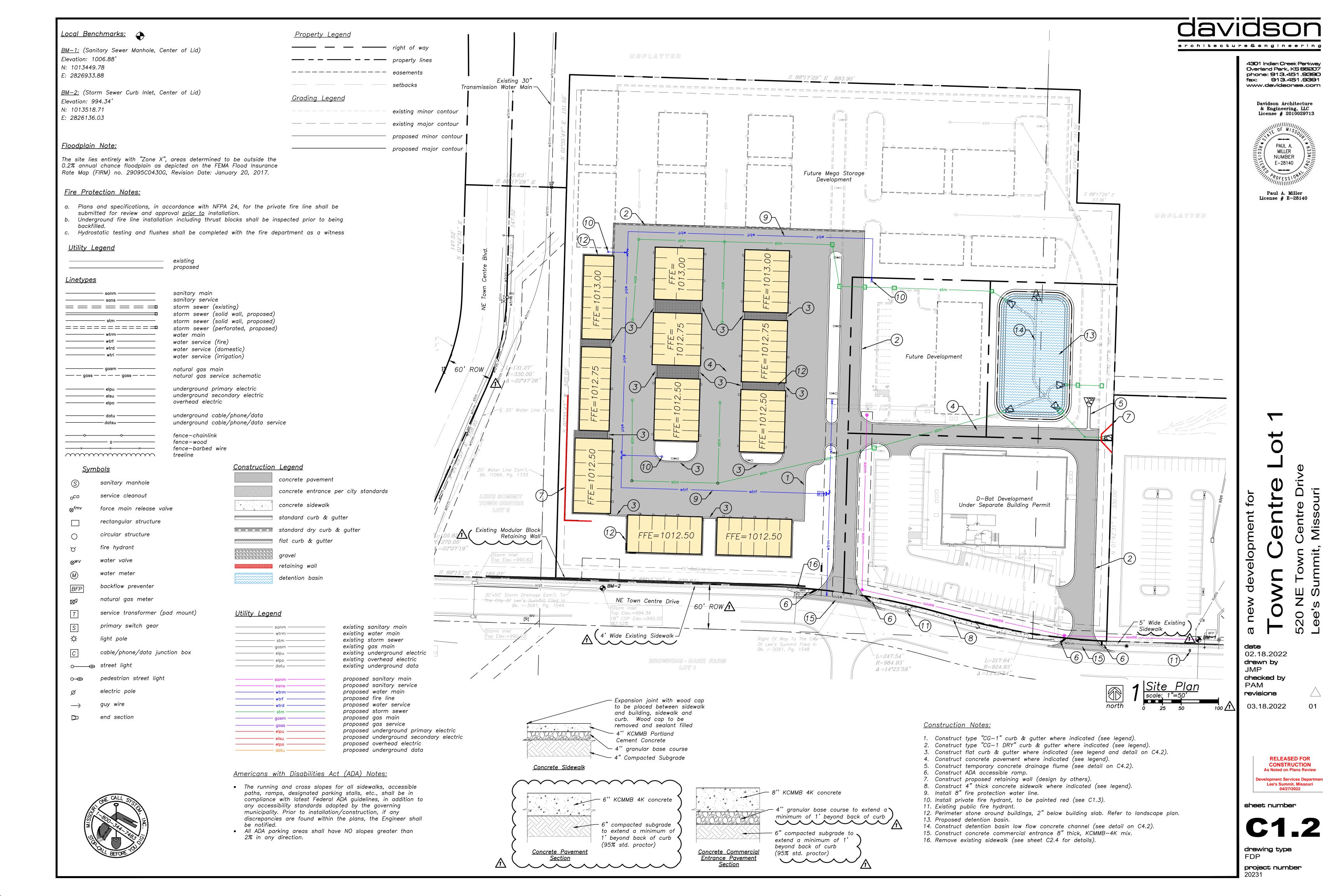
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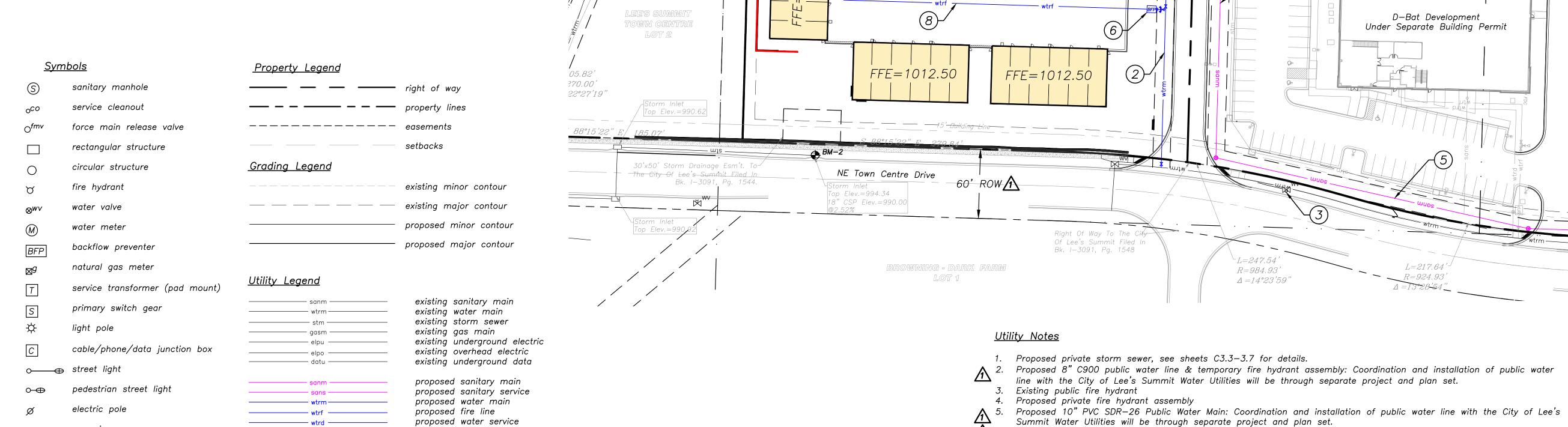
FDP project number

drawing type





 $\longrightarrow$ 



proposed water service

proposed storm sewer

proposed gas service

proposed overhead electric proposed underground data

proposed underground primary electric

proposed underground secondary electric

proposed gas main

\_\_\_\_\_ datu \_\_\_\_\_

S 88°17'29" E 683.90' Existing 30" Transmission Water Main — 4301 Indian Creek Parkway Overland Park, KS 66207 phone: 913.451.9390 fax: 913.451.9391 www.davidsonae.com Storm Lines to be Storm Lines to be Davidson Architecture Installed with Future Mega Installed with Future Mega & Engineering, LLC License # 2010029713 Storage Development Storage Development -\_\_\_\_ Future Mega Storage PAUL A. Development MILLER NUMBER E-28140 S 88°17'29" F Paul A. Miller License # E-28140 FF. Future Development 60' /ROW 0  $O^{-}$ 50 20' Water Line Esm't. Bk. 11066, Pg. 1733 - 0 -Under Separate Building Permit velopme 0  $\Phi$  $\boldsymbol{\sigma}$ date 02.18.2022 drawn by JMP checked by PAM

Summit Water Utilities will be through separate project and plan set.

Precast detention basin outlet structure (See sheet C4.5 for details).

Install backflow preventer device in vault with concrete bottom sloped for drainage (See detail WAT—12 on sheet C4.4)

 $\Lambda$  8. Proposed private fire protection line. Install  $\pm 1,265$  LF of 8" C900 PVC fire protection line with four (4x) private fire

hydrant assemblies, as shown. Fire lines shall have a minimum cover of 42" and no more than 60" unless

obstructions require deeper excavation for clearances. See sheet C3.8 for plan & profile.

revisions

architecture & engineering

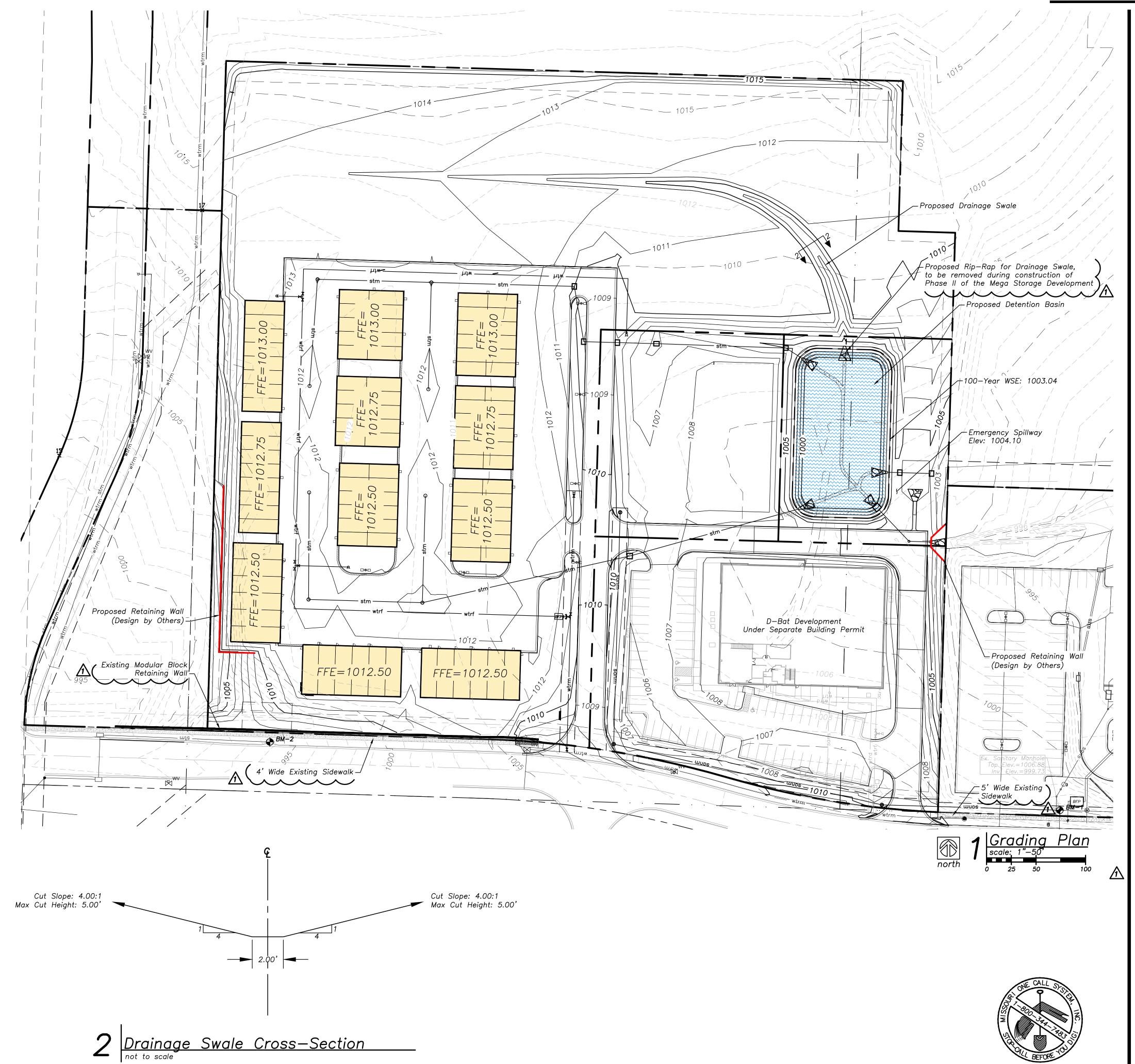
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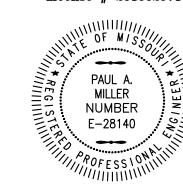
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Local Benchmarks: 👍 <u>BM-1:</u> (Sanitary Sewer Manhole, Center of Lid) Elevation: 1006.88 N: 1013449.78 E: 2826933.88 <u>BM-2:</u> (Storm Sewer Curb Inlet, Center of Lid) Elevation: 994.34' N: 1013518.71 E: 2826136.03 **Grading Legend** existing minor contour existing major contour proposed minor contour proposed major contour <u>Utility Legend</u> existing proposed <u>Linetypes</u> sanitary main sanitary service storm sewer (existing) storm sewer (solid wall, proposed) storm sewer (solid wall, proposed) storm sewer (perforated, proposed) water service (fire) water service (domestic) water service (irrigation) natural gas main natural gas service schematic underground primary electric underground secondary electric overhead electric underground cable/phone/data underground cable/phone/data service fence-chainlink fence-wood fence-barbed wire Property Legend easements setbacks <u>Symbols</u> sanitary manhole service cleanout force main release valve rectangular structure circular structure fire hydrant water valve water meter backflow preventer natural gas meter service transformer (pad mount) primary switch gear ✡ light pole cable/phone/data junction box street light pedestrian street light electric pole



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elopment for Centre Lot

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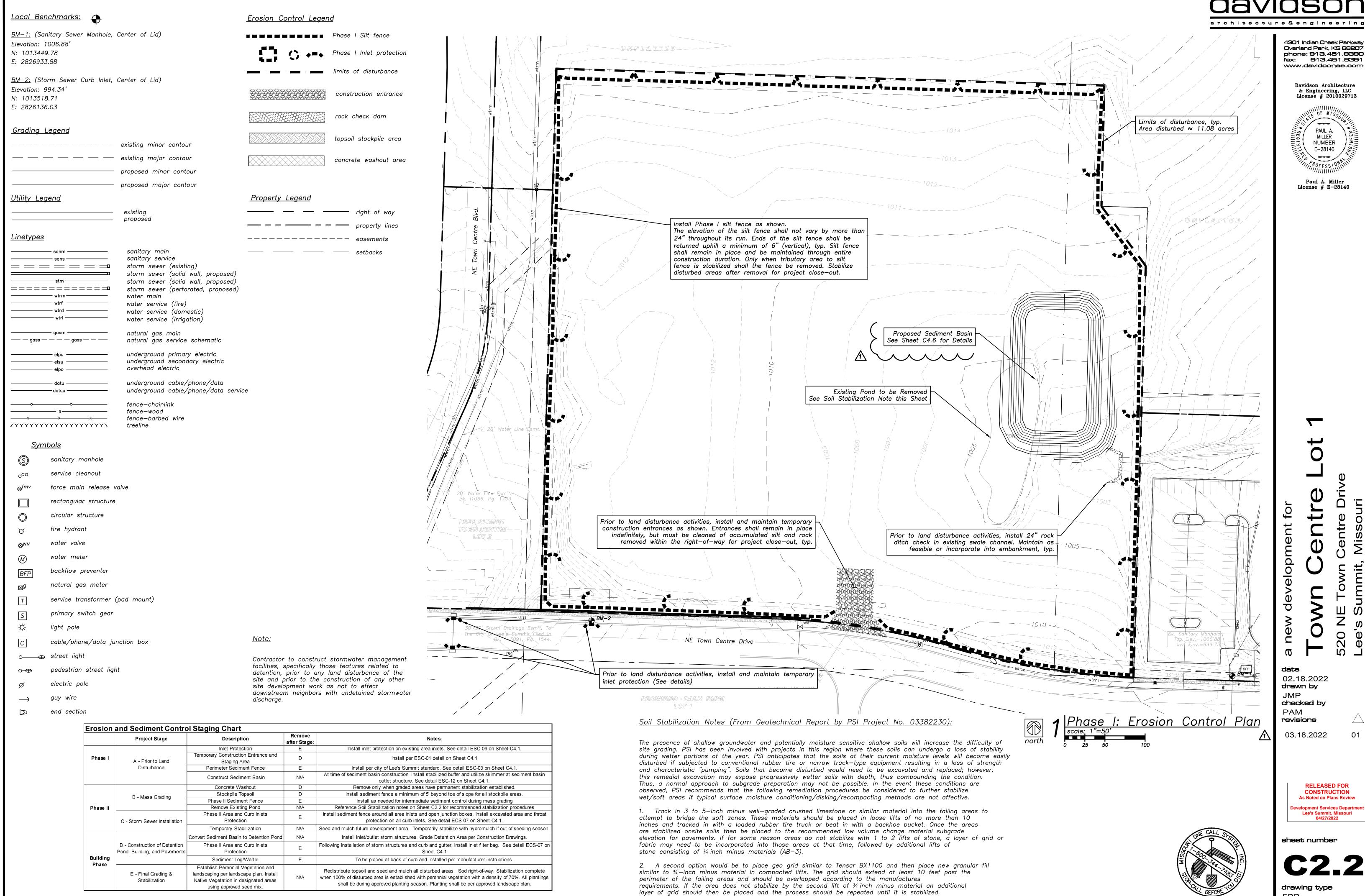
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**C2.1** 



PSI recommends a test section be performed to verify the selected remediation method.

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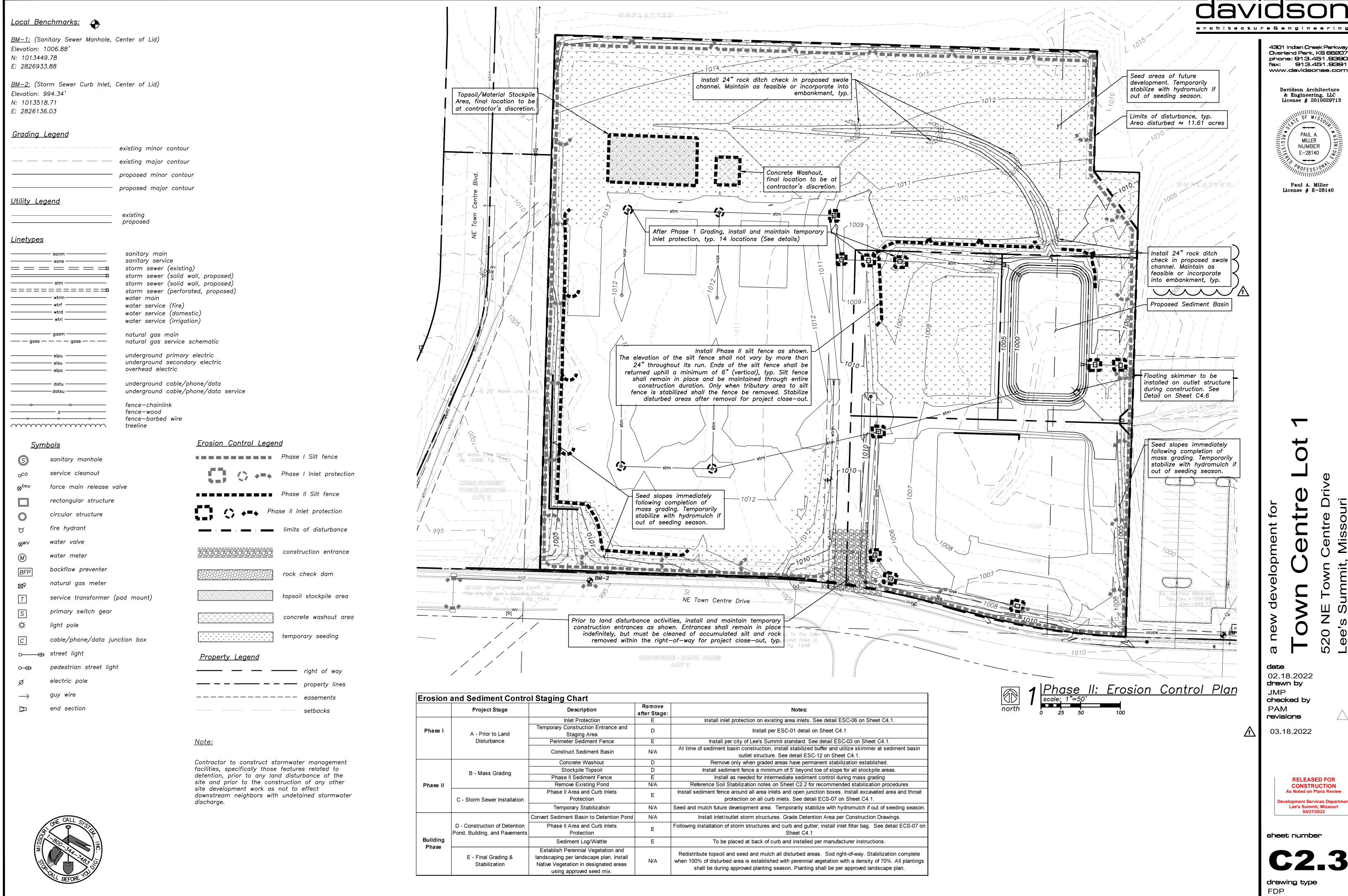
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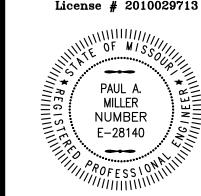
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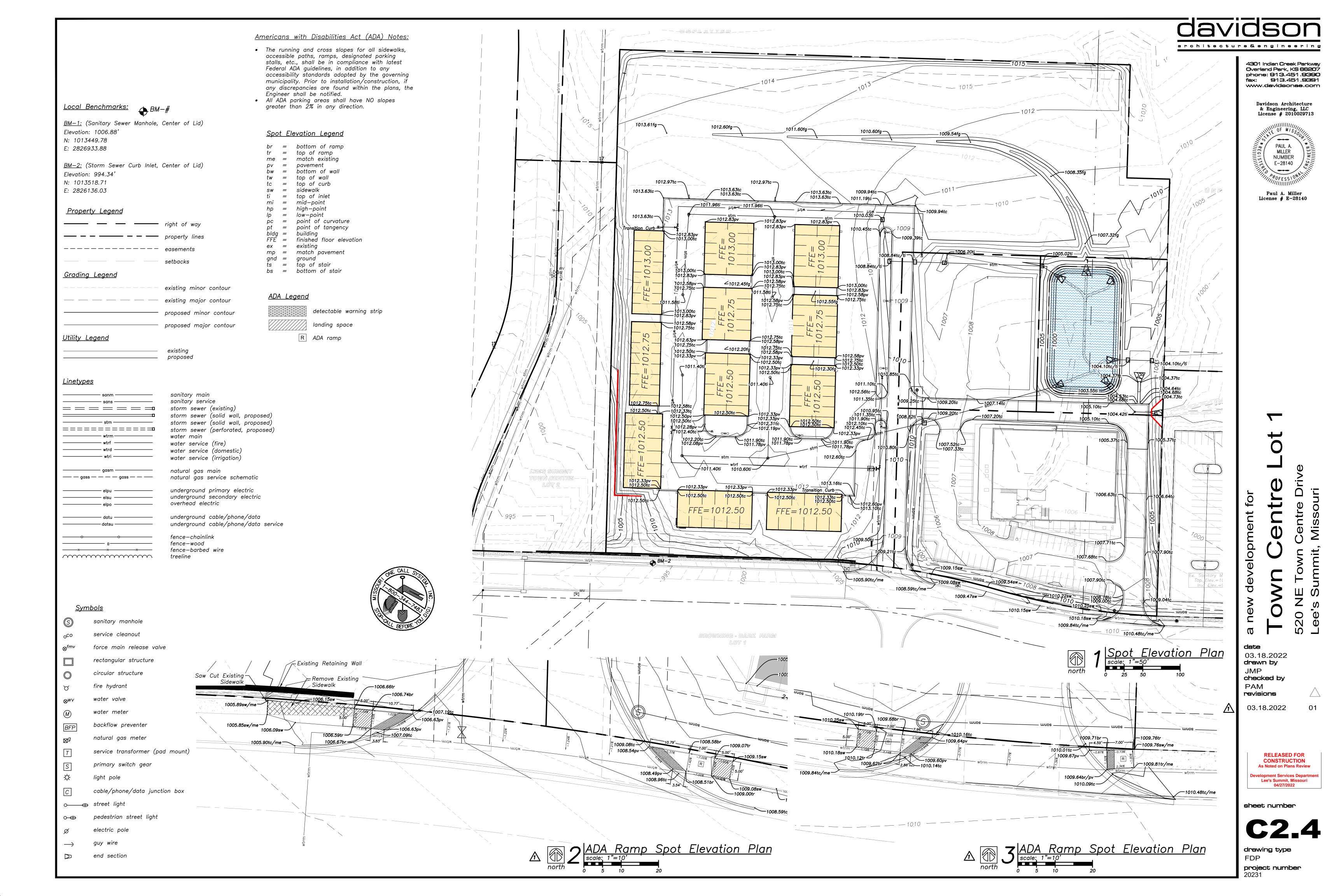
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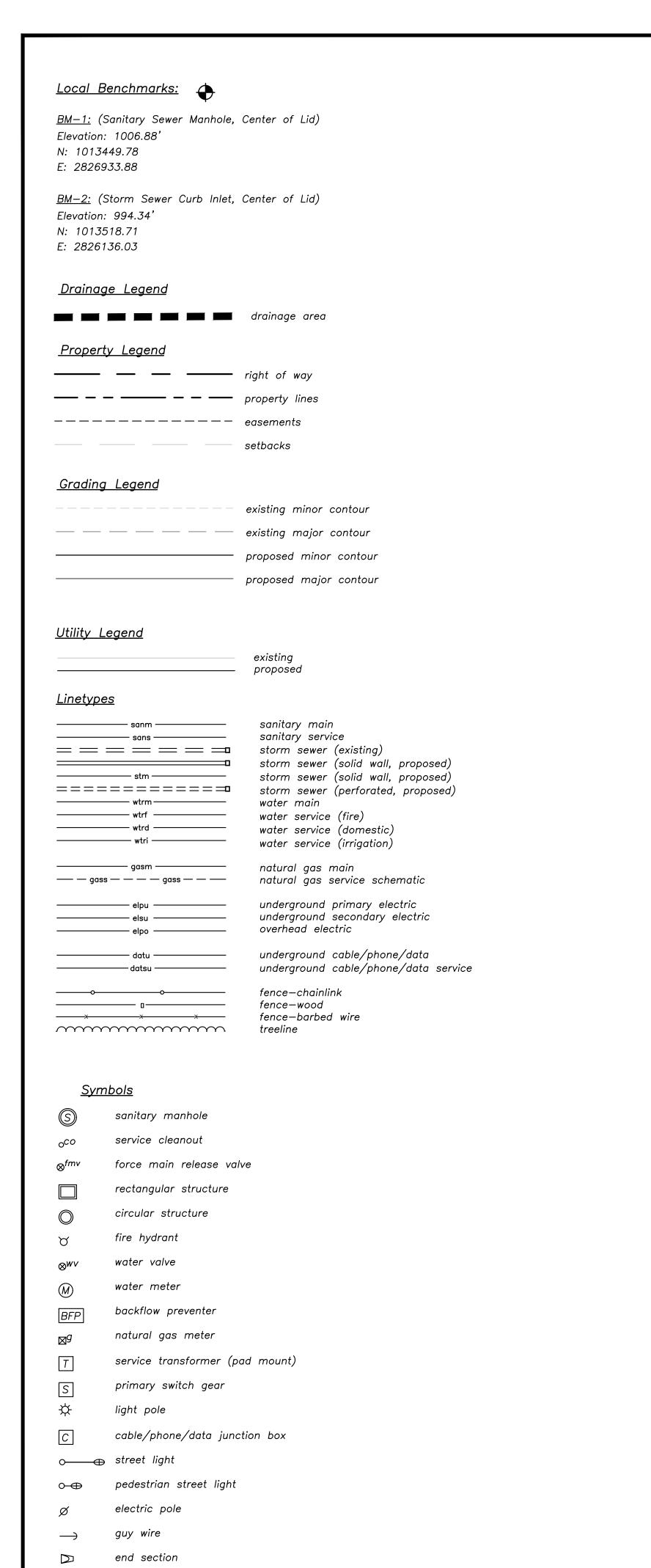
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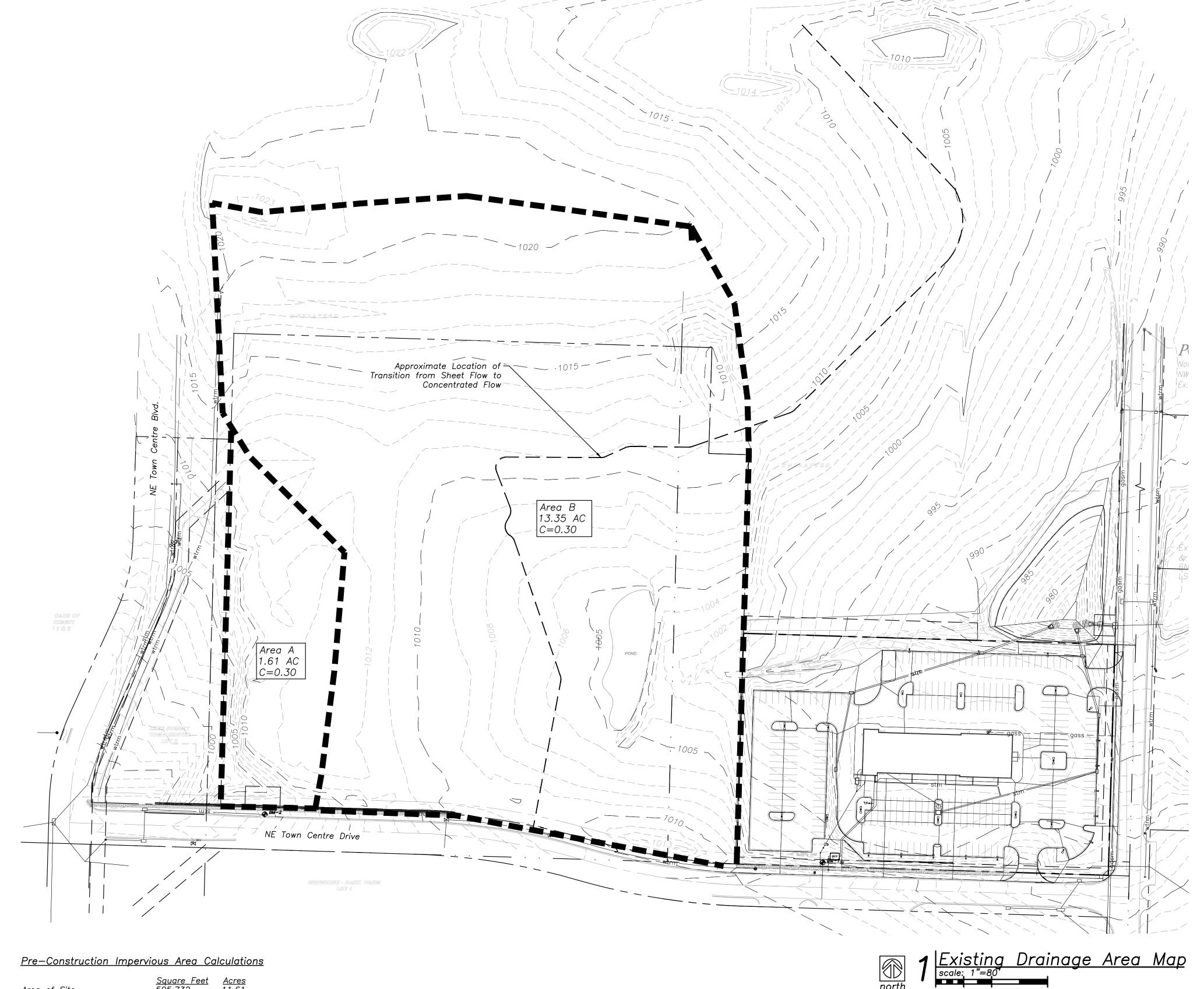
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<u>Pre-Construction Impervious Area Calculations</u>

Imp	a of Site ervious Area vious Area	986566666	<u>Square Feet</u> 505,732 0 505,732	<u>Acres</u> 11.61 0 11.61
Q:	10 year 100 year	23.26 ci 35.04 ci	· <del>-</del>	

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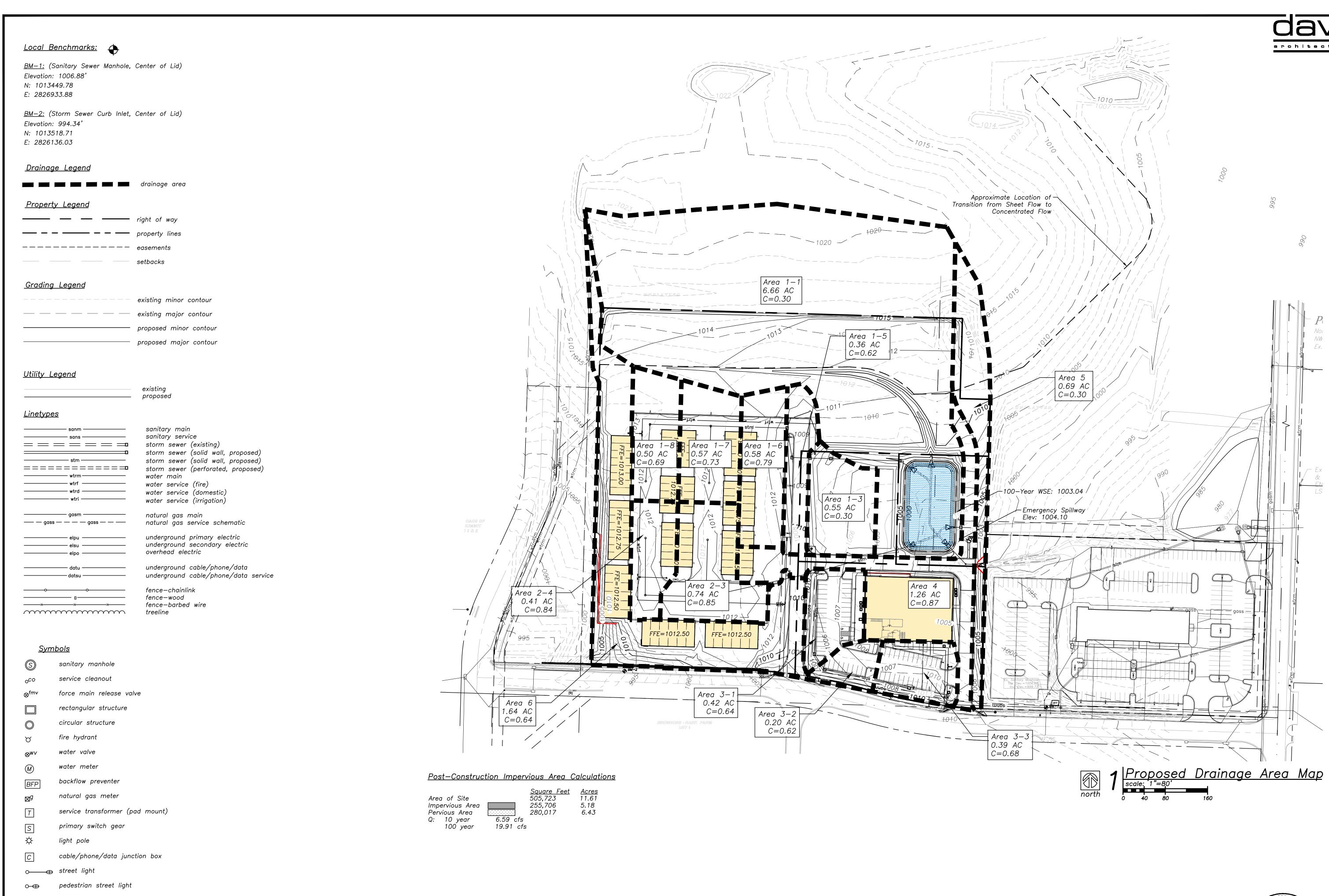
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**C3.1** 



guy wire

end section



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**C3.2** 



	LineNo.	InletID	LineID	DrainageArea	RunoffCoeff	TotalRunoff	CapacityFull	DepthDn	DepthUp	CriticalDepth	EGLDn	EGLUp	HGLDn	HGLUp	InvertDn	InvertUp	LineLength	LineSlope	TotalArea	TotalCxA	VelAve	FlowRate
				(ac)	(C)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(%)	(ac)		(ft/s)	(cfs)
	1	1-2	1-2 to 1-1	0	0	7.26	17.24	1.14	0.96**	0.96	1002.52	1002.45	1002.15	1002.08	1001.01	1001.12	22.228	0.49	2.56	1.61	4.41	7.26
	2	1-3	1-3 to 1-2	0.55	0.3	7.41	17.4	0.91	0.97**	0.97	1002.61	1003.32	1002.23	1002.95	1001.32	1001.98	130.857	0.5	2.56	1.61	5.12	7.41
$\Lambda$	3	1-4	1-4 to 1-5	0	0	6.7	22.06	0.77	0.92**	0.92	1003.3	1003.77	1002.95	1003.42	1002.18	1002.5	39.492	0.81	2.01	1.44	5.41	6.7
$\Delta$	4	1-5	1-5 to 1-4	0.36	0.62	6.74	22.23	0.76	0.92**	0.92	1003.8	1004.24	1003.45	1003.89	1002.69	1002.97	34.004	0.82	2.01	1.44	5.49	6.74
$\Delta$	5	1-6	1-6 to 1-5	0.58	0.79	5.76	22.57	0.69	0.85**	0.85	1004.47	1005.11	1004.15	1004.79	1003.46	1003.94	56.578	0.85	1.65	1.22	5.28	5.76
	6	1-7	1-7 to 1-6	0	0	3.7	11.16	0.59	0.73**	0.73	1005.31	1006.84	1005.03	1006.55	1004.43	1005.82	144.508	0.96	1.07	0.76	4.98	3.7
	7	1-8	1-8 to 1-7	0	0	1.76	10.06	0.53	0.50**	0.5	1006.74	1007.6	1006.55	1007.42 j	1006.02	1006.92	114.98	0.78	0.5	0.35	3.27	1.76
	8	8-1	8-1 to 1-8	0.5	0.69	1.8	2.7	0.6	0.6	0.57	1008.23	1008.76	1008.02	1008.55	1007.42	1007.95	108.116	0.49	0.5	0.35	3.68	1.8
	9	9-1	9-1 to 1-7	0.57	0.73	2.17	3.68	0.55	0.63**	0.63	1007.34	1008.4	1007.07	1008.13	1006.52	1007.5	107.912	0.91	0.57	0.42	4.52	2.17
	10	2-2	2-2 to 2-1	0	0	7.86	7.19	1.28	1.38	1.09	1002.65	1003.43	1002.28	1003.1	1001	1001.72	180.275	0.4	2.16	1.63	4.76	7.86
	11	2-3	2-3 to 2-2	0	0	4.8	7.89	1.25	0.89**	0.89	1003.65	1006	1003.42	1005.59 j	1001.97	1004.7	214.634	1.27	1.15	0.97	4.53	4.8
	12	2-4	2-4 to 2-3	0	0	1.76	8.25	0.64	0.53**	0.53	1005.79	1007.28	1005.59	1007.08 j	1004.95	1006.55	114.996	1.39	0.41	0.34	3.19	1.76
	13	10-1	10-1 to 2-4	0.41	0.84	1.79	2.73	0.59	0.59	0.57	1007.61	1008.15	1007.39	1007.93	1006.8	1007.34	108.098	0.5	0.41	0.34	3.71	1.79
	14	11-1	11-1 to 2-3	0.74	0.85	3.28	5.45	0.56	0.77**	0.77	1006.15	1008.53	1005.76	1008.13	1005.2	1007.36	108.051	2	0.74	0.63	6.14	3.28
	15	3-1	3-1 to 2-2	0.42	0.64	3.27	4.92	1.25	0.99	0.73	1003.53	1003.88	1003.42	1003.73	1001.97	1002.74	155.694	0.49	1.01	0.66	2.91	3.27
	16	3-2	3-2 to 3-1	0.2	0.62	1.95	2.68	0.83	0.73	0.59	1003.94	1004.05	1003.82	1003.89	1002.99	1003.16	35.163	0.48	0.59	0.39	2.98	1.95
	17	3-3	3-3 to 3-2	0.39	0.68	1.38	2.73	0.64	0.50**	0.5	1004.11	1004.87	1004	1004.68 j	1003.36	1004.18	163.499	0.5	0.39	0.27	3.06	1.38
	18	4-2	4-2 to 4-1	0	0	5.69	4.7	0.97	1.1	0.97	1001.83	1001.94	1001.35	1001.55	1000.38	1000.45	15.493	0.45	1.26	1.1	5.28	5.69
	19	4-3	4-3 to 4-2	1.26	0.87	5.71	4.95	1.25	1.25	0.97	1002.24	1002.45	1001.9	1002.11	1000.65	1000.81	32.013	0.5	1.26	1.1	4.65	5.71
	20	7-3	45 to 7-1	0	0	0	15.13	2	2	0.16				1002.85		999.82	20.988	0.38	0	0	0.07	0.21
$\triangle$	21	7-2	7-2 to 45	0	0	0	15.46	2	2	0.16	1002.85	1002.85	1002.85	1002.85	999.82	1000	45.234	0.4	0	0	0.07	0.21

10—Year Storm Calculations

L	ineNo.	InletID	LineID	DrainageArea	RunoffCoeff	TotalRunoff	apacityFu	DepthDn	DepthUp	CriticalDepth	EGLDn	EGLUp	HGLDn	HGLUp	InvertDn	InvertUp	LineLength	LineSlope	TotalArea	TotalCxA	VelAve	
				(ac)	(C)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(%)	(ac)		(ft/s)	(cfs)
	1	1-2	1-2 to 1-1	0	0	10.66	17.24	1.14	1.17**	1.17	1002.64	1002.78	1002.15	1002.29	1001.01	1001.12	22.228	0.49	2.56	1.61	5.68	10.66
	2	1-3	1-3 to 1-2	0.55	0.3	10.81	17.4	1.14	1.18**	1.18	1002.95	1003.65	1002.46	1003.16	1001.32	1001.98	130.857	0.5	2.56	1.61	5.73	10.81
<u> </u>	3	1-4	1-4 to 1-5	0	0	9.75	22.06	0.98	1.12**	1.12	1003.61	1004.07	1003.16	1003.62	1002.18	1002.5	39.492	0.81	2.01	1.44	5.9	9.75
<u> </u>	4	1-5	1-5 to 1-4	0.36	0.62	9.79	22.23	0.93	1.12**	1.12	1004.08	1004.55	1003.62	1004.09	1002.69	1002.97	34.004	0.82	2.01	1.44	6.13	9.79
<u>^                                    </u>	5	1-6	1-6 to 1-5	0.58	0.79	8.34	22.57	0.84	1.03**	1.03	1004.71	1005.38	1004.3	1004.97	1003.46	1003.94	56.578	0.85	1.65	1.22	5.88	8.34
	6	1-7	1-7 to 1-6	0	0	5.3	11.16	0.73	0.89**	0.89	1005.53	1007.08	1005.16	1006.71	1004.43	1005.82	144.508	0.96	1.07	0.76	5.56	5.3
	7	1-8	1-8 to 1-7	0	0	2.48	10.06	0.69	0.60**	0.6	1006.93	1007.74	1006.71	1007.52 j	1006.02	1006.92	114.98	0.78	0.5	0.35	3.47	2.48
	8	8-1	8-1 to 1-8	0.5	0.69	2.52	2.7	0.77	0.76	0.68	1008.42	1008.95	1008.19	1008.71	1007.42	1007.95	108.116	0.49	0.5	0.35	3.91	2.52
	9	9-1	9-1 to 1-7	0.57	0.73	3.04	3.68	0.69	0.75**	0.75	1007.58	1008.61	1007.21	1008.25	1006.52	1007.5	107.912	0.91	0.57	0.42	5.03	3.04
	10	2-2	2-2 to 2-1	0	0	11.31	7.19	1.28	1.5	1.28	1003.05	1004.77	1002.28	1004.14	1001	1001.72	180.275	0.4	2.16	1.63	6.71	11.31
	11	2-3	2-3 to 2-2	0	0	6.85	7.89	1.25	1.25	1.05	1005.23	1007.29	1004.75	1006.8	1001.97	1004.7	214.634	1.27	1.15	0.97	5.58	6.85
	12	2-4	2-4 to 2-3	0	0	2.48	8.25	1.25	0.86	0.63	1007.35	1007.53	1007.29	1007.41	1004.95	1006.55	114.996	1.39	0.41	0.34	2.38	2.48
	13	10-1	10-1 to 2-4	0.41	0.84	2.51	2.73	0.76	0.76	0.68	1007.8	1008.34	1007.56	1008.1	1006.8	1007.34	108.098	0.5	0.41	0.34	3.94	2.51
	14	11-1	11-1 to 2-3	0.74	0.85	4.59	5.45	1	1	0.89	1007.82	1009.35	1007.29	1008.82	1005.2	1007.36	108.051	2	0.74	0.63	5.85	4.59
	15	3-1	3-1 to 2-2	0.42	0.64	4.66	4.92	1.25	1.25	0.87	1004.97	1005.66	1004.75	1005.44	1001.97	1002.74	155.694	0.49	1.01	0.66	3.8	4.66
	16	3-2	3-2 to 3-1	0.2	0.62	2.77	2.68	1	1	0.71	1005.77			1005.76	<b>†</b>	1003.16	35.163	0.48	0.59	0.39	3.52	2.77
	17	3-3	3-3 to 3-2	0.39	0.68	1.94	2.73	1	1	0.59	1006	1006.41	1005.9	1006.31	1003.36	1004.18	163.499	0.5	0.39	0.27	2.47	1.94
	18	4-2	4-2 to 4-1		0	7.99	4.7	1.11	1.25	1.11					1000.38		15.493	0.45	1.26	1.1	6.71	7.99
	19	4-3	4-3 to 4-2	1.26	0.87	8	4.95	1.25	1.25	1.11	<b>+</b>				1000.65		32.013	0.5	1.26	1.1	6.52	8
,  _	20	7-3	45 to 7-1	0	0	0	15.13	2	2	0.28					999.74	999.82	20.988	0.38	0	0	0.21	0.66
<u> </u>	21	7-2	7-2 to 45	0	0	0	15.46	2	2	0.28	1002.85	1002.85	1002.85	1002.85	999.82	1000	45.234	0.4	0	0	0.21	0.66

100-Year Storm Calculations



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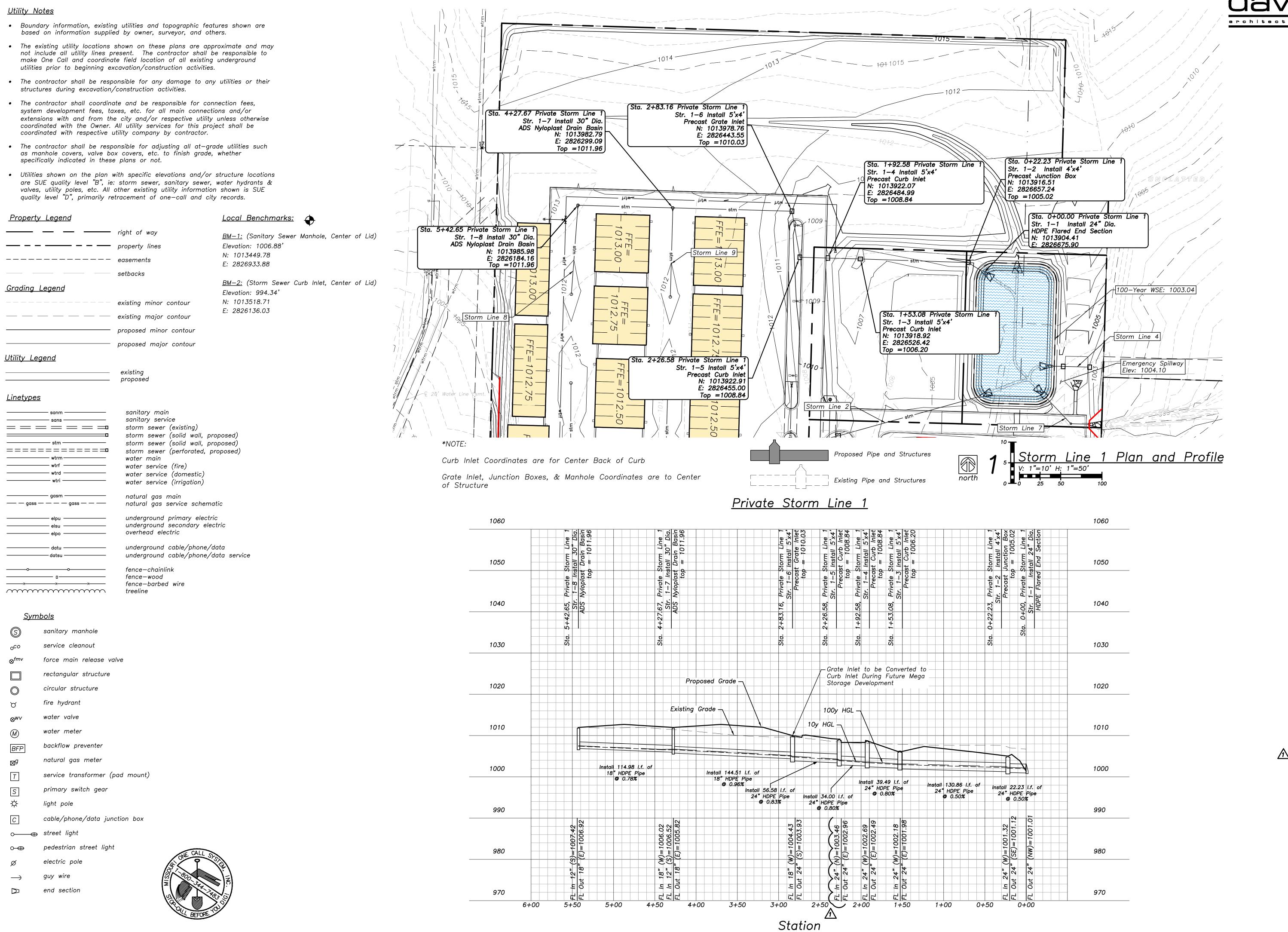
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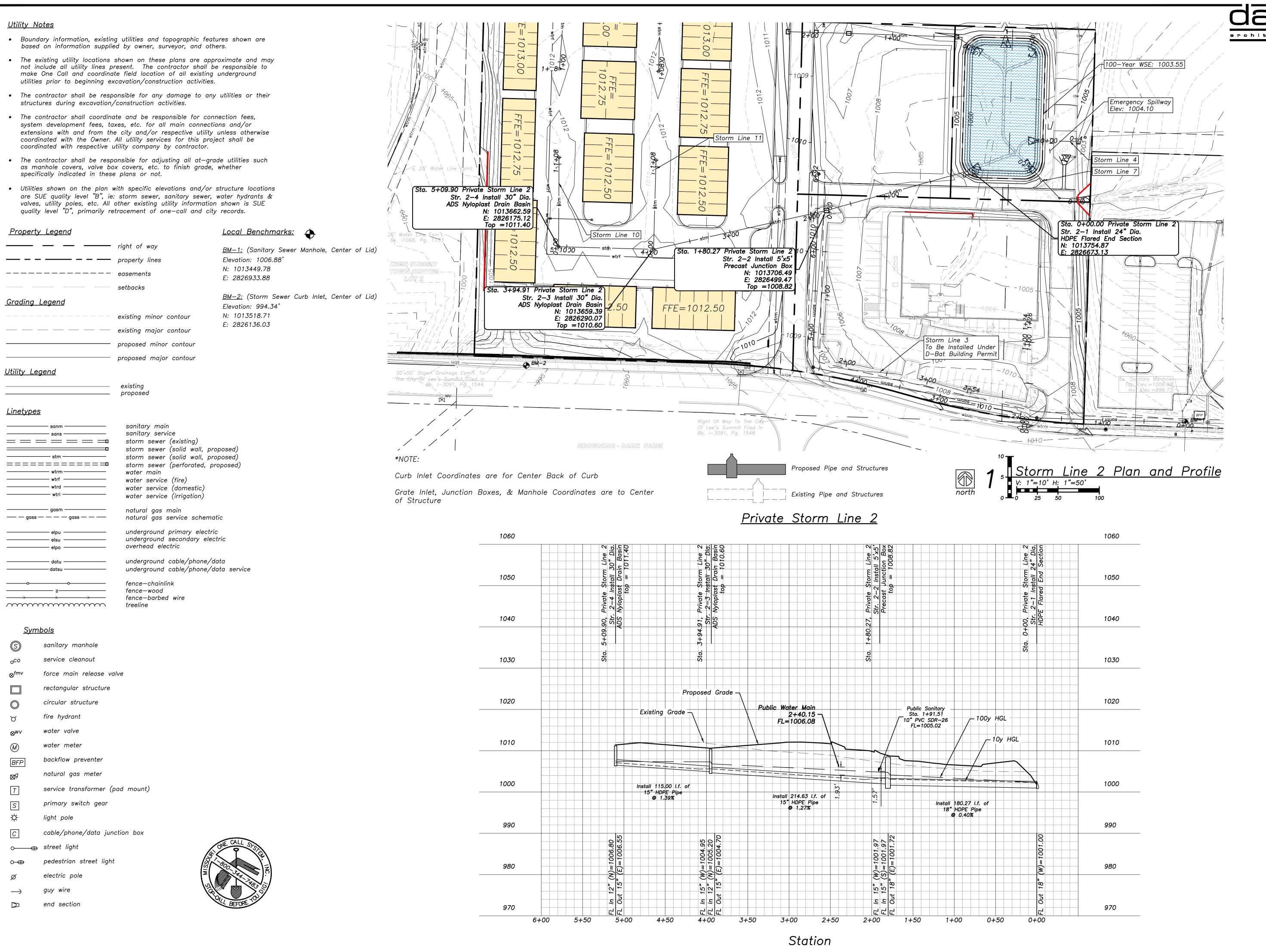
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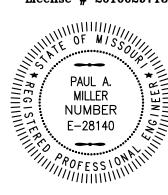
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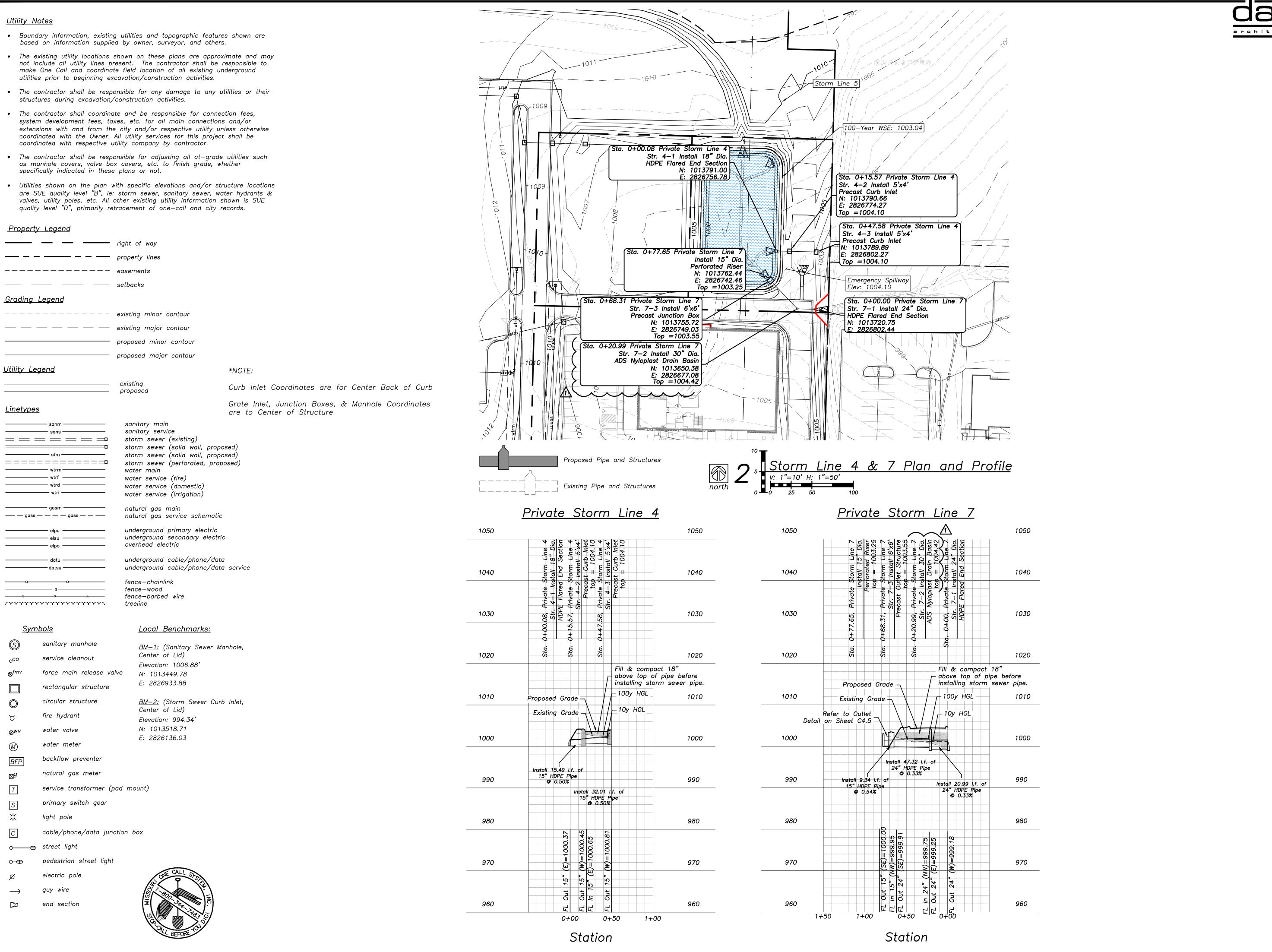
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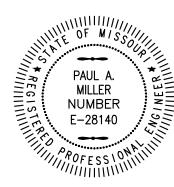
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### <u>Utility Notes</u>

Property Legend

<u>Grading Legend</u>

**Utility Legend** 

<u>Symbols</u>

S

 $\Rightarrow$ 

sanitary manhole

service cleanout

circular structure

backflow preventer

natural gas meter

primary switch gear

electric pole

service transformer (pad mount)

cable/phone/data junction box

fire hydrant

force main release valve

rectangular structure

---- easements

— — — — existing major contour

- Boundary information, existing utilities and topographic features shown are based on information supplied by owner, surveyor, and others.
- The existing utility locations shown on these plans are approximate and may not include all utility lines present. The contractor shall be responsible to make One Call and coordinate field location of all existing underground utilities prior to beginning excavation/construction activities.
- The contractor shall be responsible for any damage to any utilities or their structures during excavation/construction activities.
- The contractor shall coordinate and be responsible for connection fees, system development fees, taxes, etc. for all main connections and/or extensions with and from the city and/or respective utility unless otherwise coordinated with the Owner. All utility services for this project shall be coordinated with respective utility company by contractor.
- The contractor shall be responsible for adjusting all at-grade utilities such as manhole covers, valve box covers, etc. to finish grade, whether specifically indicated in these plans or not.
- Utilities shown on the plan with specific elevations and/or structure locations are SUE quality level "B", ie: storm sewer, sanitary sewer, water hydrants & valves, utility poles, etc. All other existing utility information shown is SUE quality level "D", primarily retracement of one—call and city records.

setbacks

existina

proposed

existing minor contour

proposed minor contour

proposed major contour

### Local Benchmarks: 🕀

<u>BM-1:</u> (Sanitary Sewer Manhole, Center of Lid) Elevation: 1006.88'

N: 1013449.78

E: 2826933.88

BM-2: (Storm Sewer Curb Inlet, Center of Lid) Elevation: 994.34'

N: 1013518.71 E: 2826136.03

# <u>Linetypes</u>

 $\sim$ 

sanitary main sanitary service storm sewer (existing) storm sewer (solid wall, proposed) storm sewer (solid wall, proposed)

storm sewer (perforated, proposed) water main water service (fire) water service (domestic) water service (irrigation)

natural gas main natural gas service schematic

underground primary electric underground secondary electric overhead electric

underground cable/phone/data underground cable/phone/data service fence-chainlink

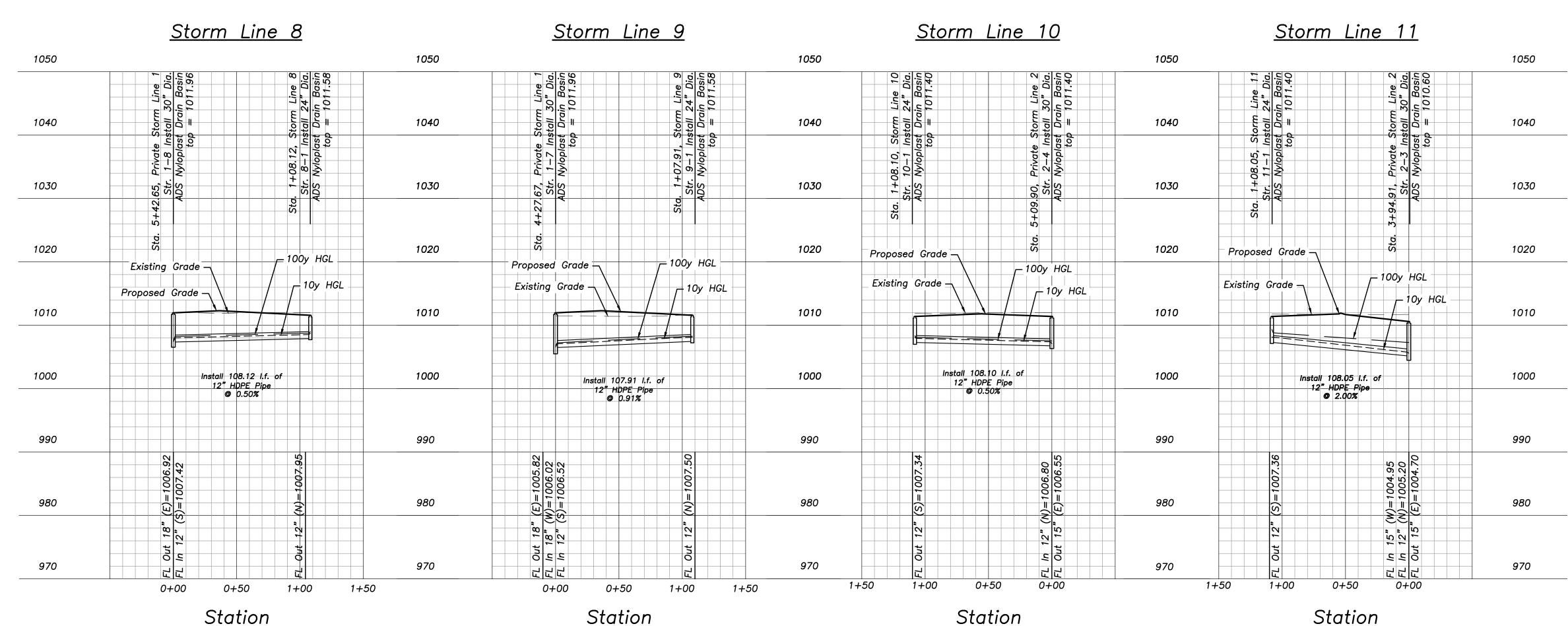
fence-wood fence—barbed wire

\*NOTE:

Curb Inlet Coordinates are for Center Back of Curb

Grate Inlet, Junction Boxes, & Manhole Coordinates are to Center of Structure

### Sta. 1+07.91 Storm Line 9 Sta. 1+08.05 Storm Line 11 Str. 9-1 Install 24" Dia. Str. 11-1 Install 24" Dia. ADS Nyloplast Drain Basin N: 1013874.90 ADS Nyloplast Drain Basin N: 1013767.40 E: 2826296.08 E: 2826293.08 Top = 1011.58Top = 1011.40Sta. 4+27.67 Private Storm Line Str. 1-7 Install 30" Dia. Sta. 3+94.91 Private Storm Line 2 ADS Nyloplast Drain Basin Str. 2-3 Install 30" Dia. N: 1013982.79 ADS Nyloplast Drain Basin E: 2826299.09 N: 1013659.39 Top = 1011.96E: 2826290.07 Storm Line 11 Storm Line 9 Top = 1010.60FFE= |Storm Line 1| FFE=1012.50 1012.75 Storm Line Sta. 5+42.65 Private Storm Line 1 Storm Line 8 Storm Line 10 Str. 1-8 Install 30" Dia. Sta. 5+09.90 Private Storm Line 2 Str. 2-4 Install 30" Dia. ADS Nyloplast Drain Basin N: 1013985.98 - ADS Nyloplast Drain Basin N: 1013662.59 E: 2826184.16 E: 2826175.12 Top = 1011.96170p = 1011.40FFE=1012.75 FFE = 10 | Sta. 1+08.10 Storm Line 10 Sta. 1+08.12 Storm Line 8 Str. 8—1 Install 24" Dia. Str. 10-1 Install 24" Dia. ADS Nyloplast Drain Basin ADS Nyloplast Drain Basin 🗏 N: 1013878.17 N: 1013770.67 E: 2826175.67 E: 2826176.14 Top = 1011.58Top = 1011.40Proposed Pipe and Structures Storm Line 8, 9, 10 & 11 Plan and Profile V: 1"=10' H: 1"=50'



Existing Pipe and Structures



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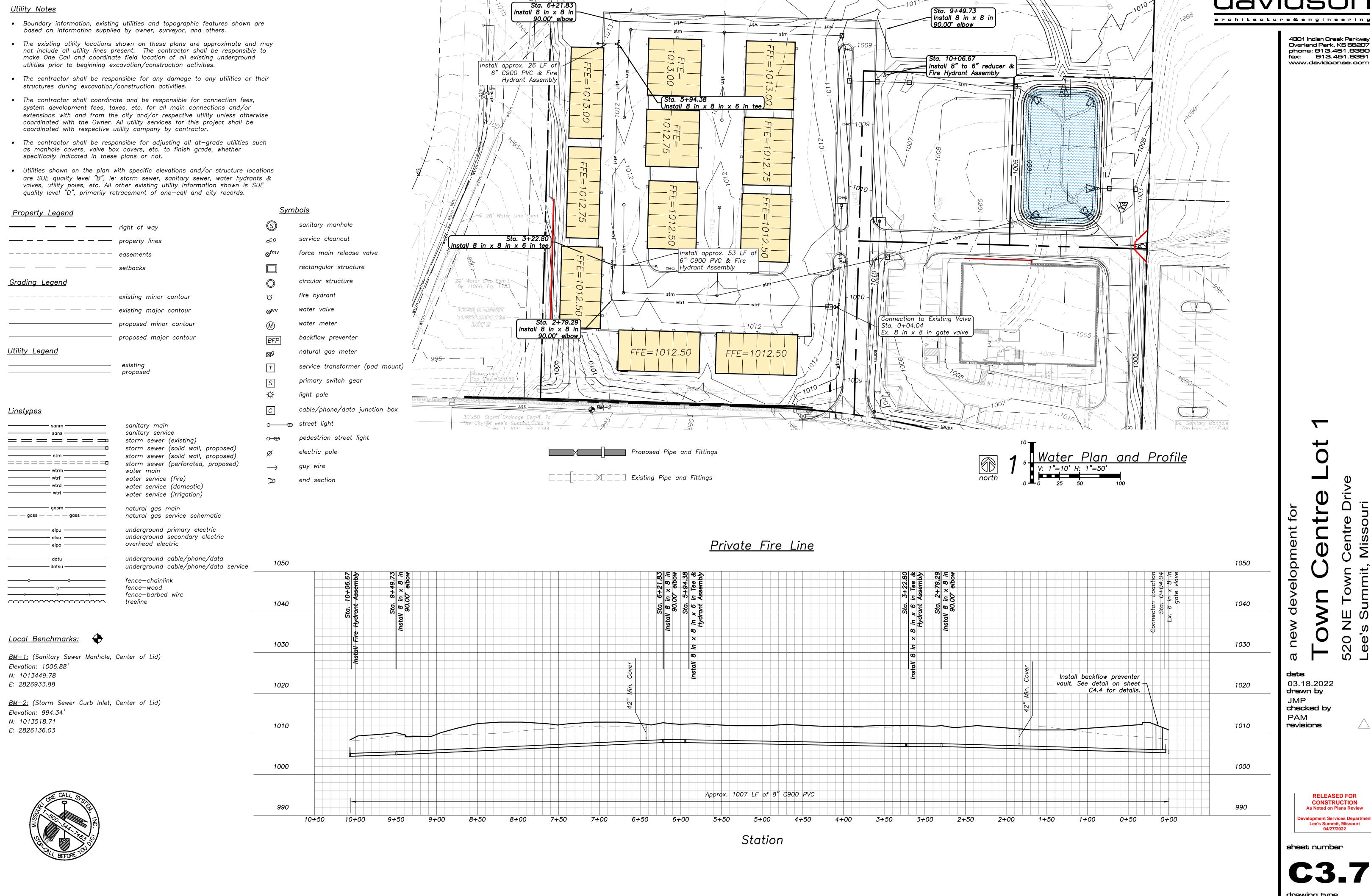
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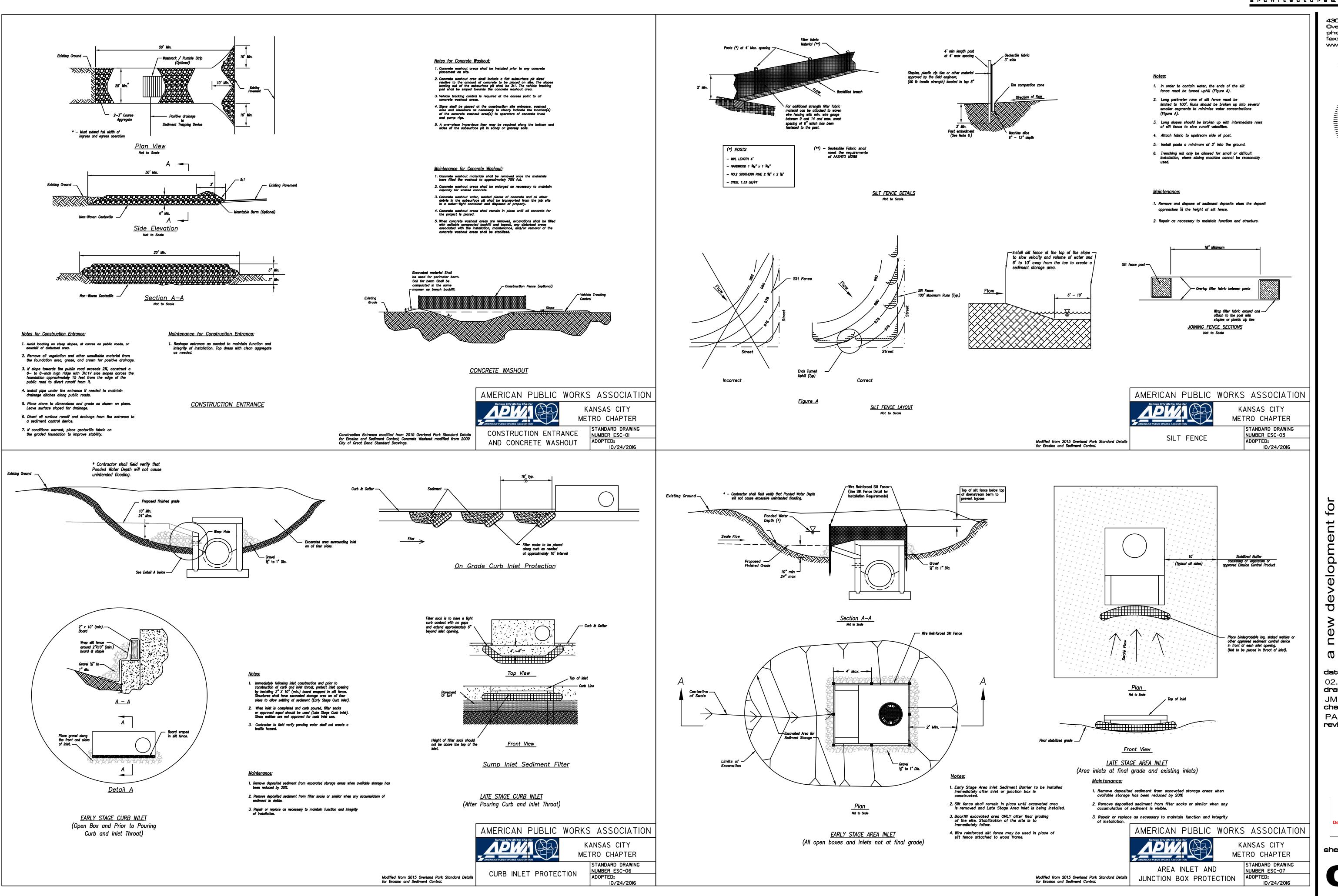


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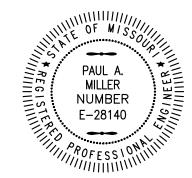
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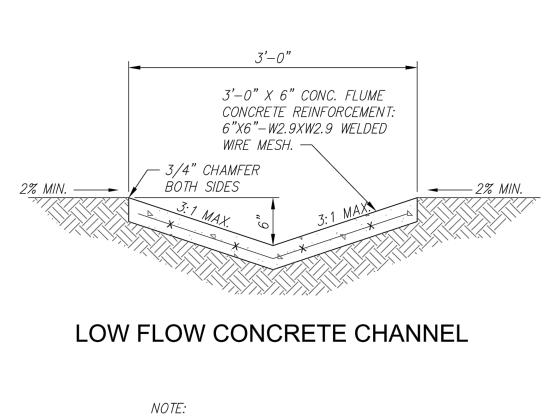
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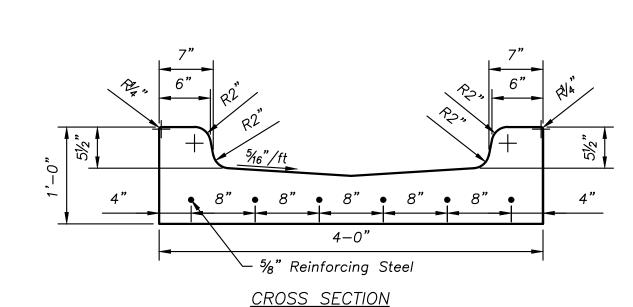
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drawing type project number

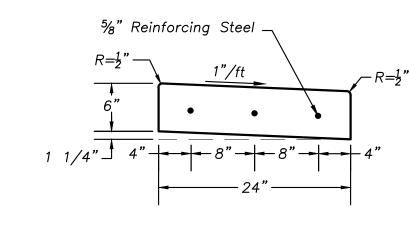


CONCRETE SHALL BE KCMMB4K (MIN)

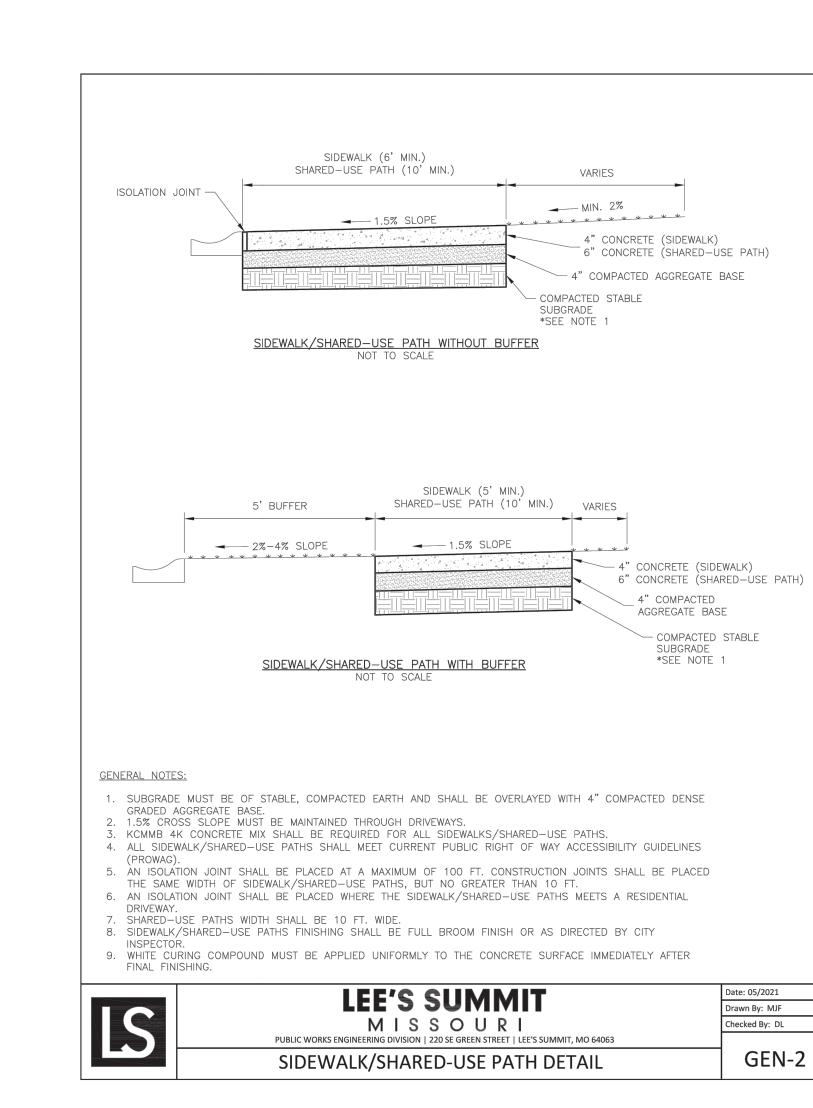
### Concrete Low Flow Channel Detail not to scale

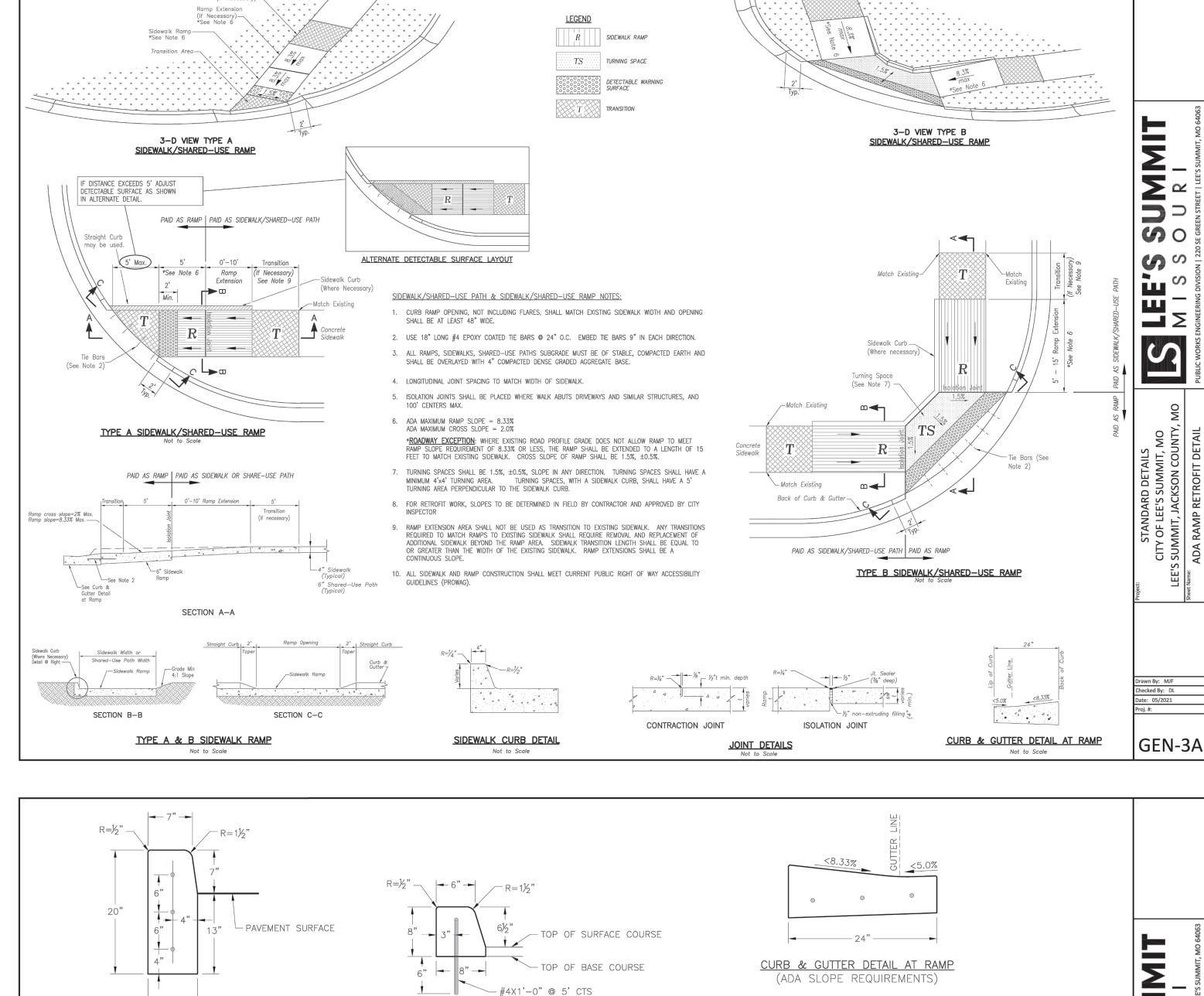


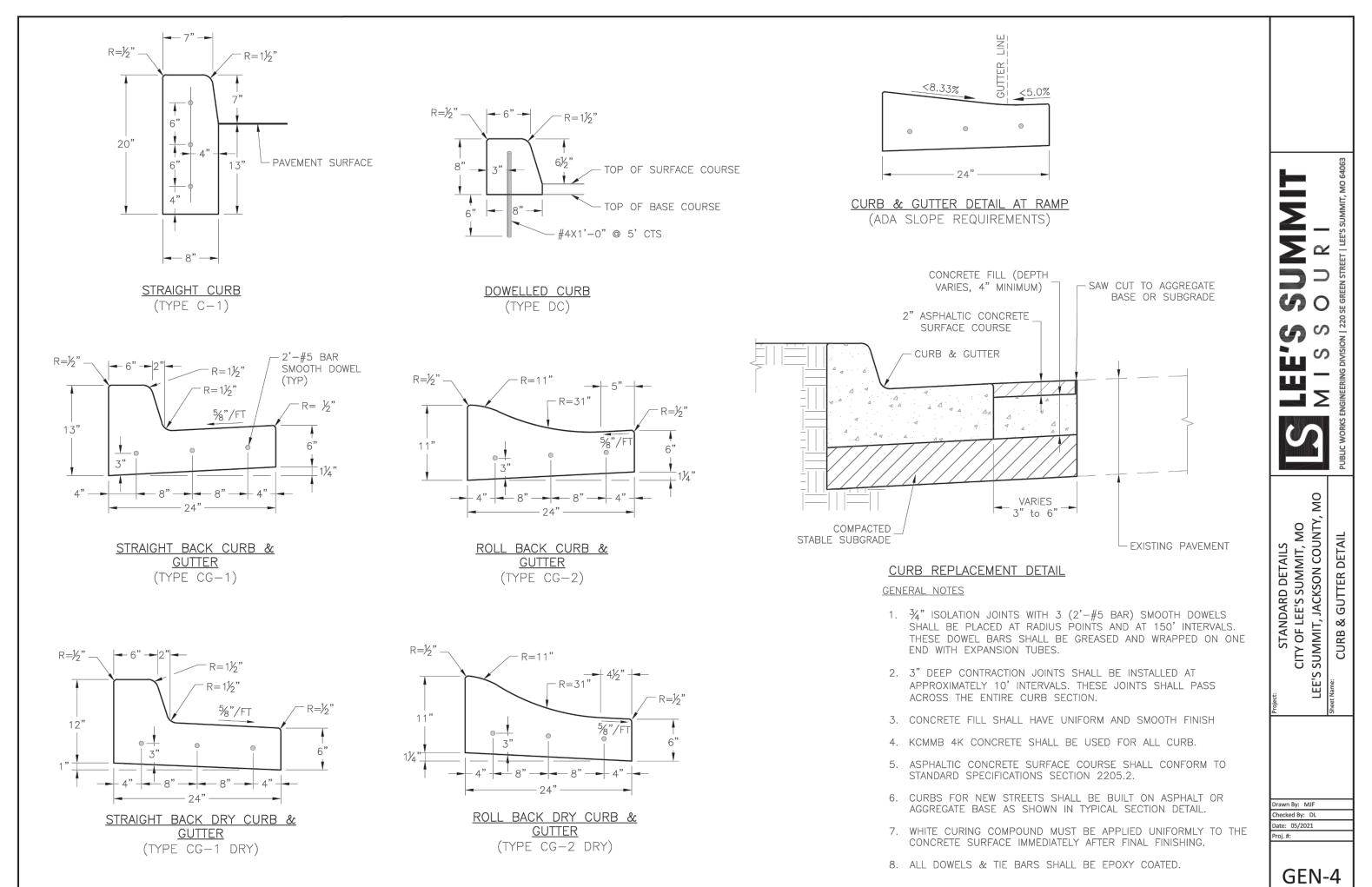
### Concrete Drainage Flume Detail not to scale

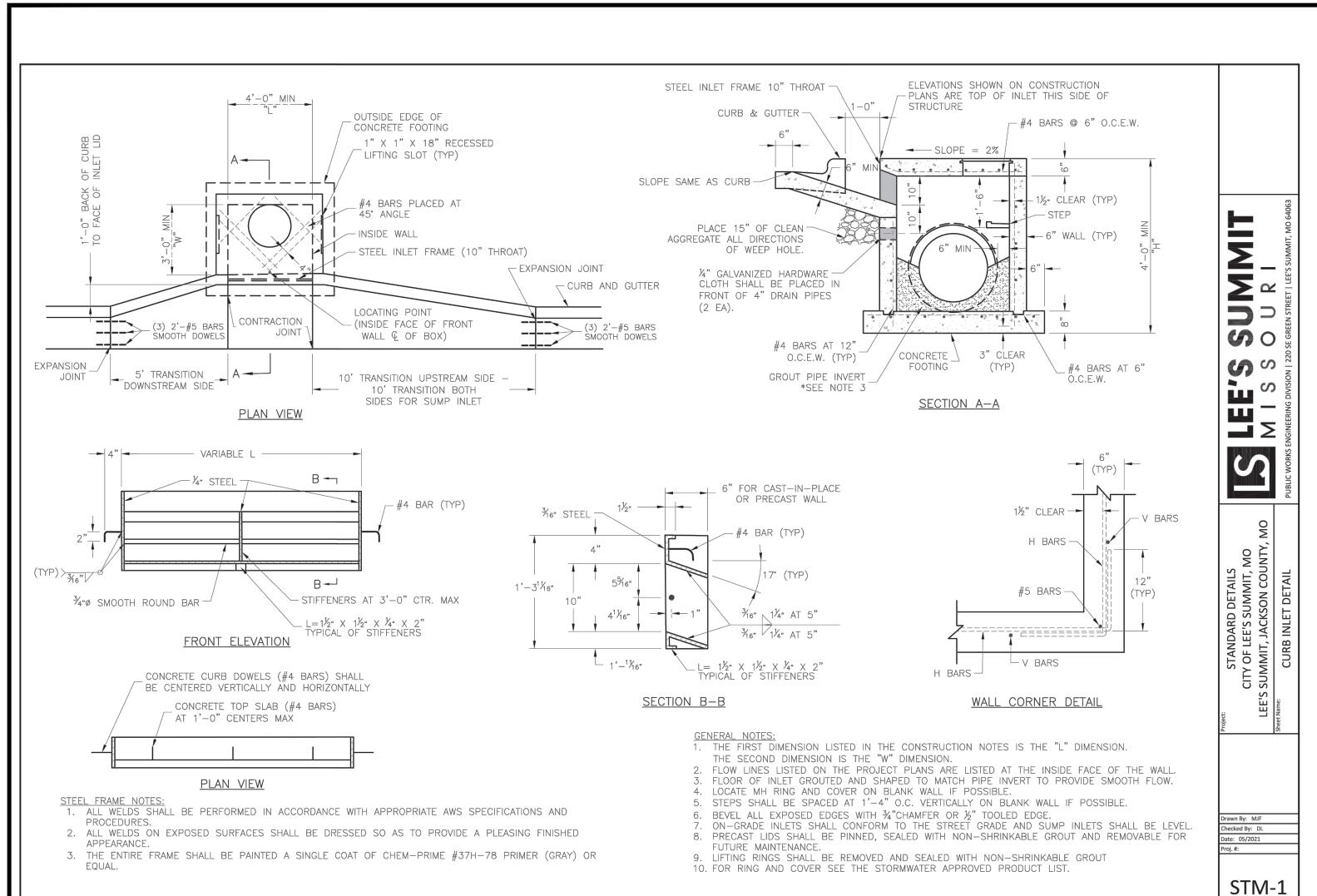


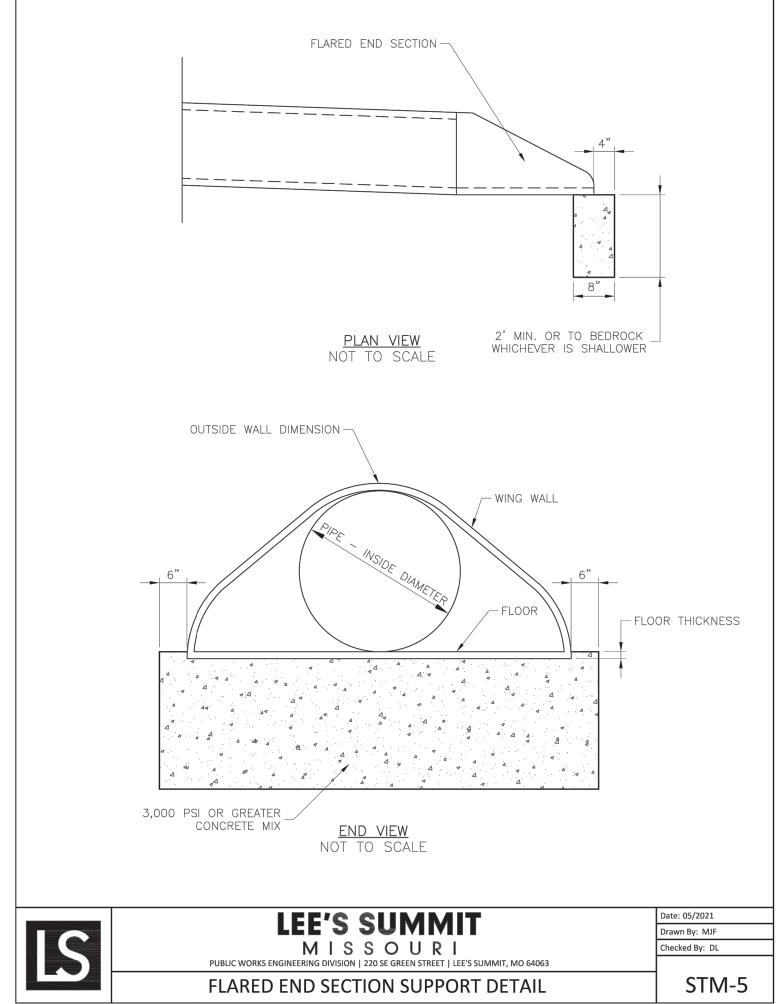
Flat Curb Detail not to scale

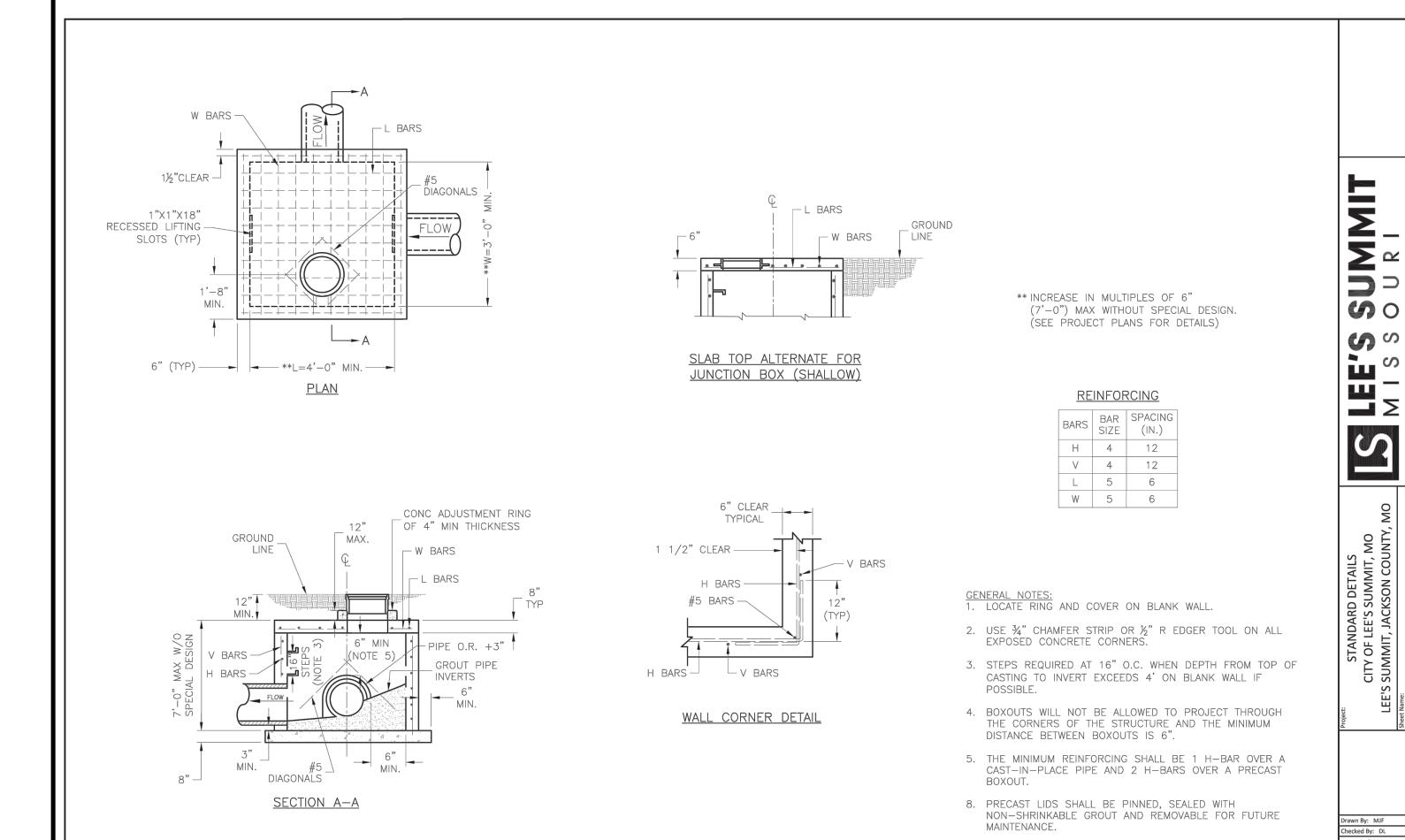










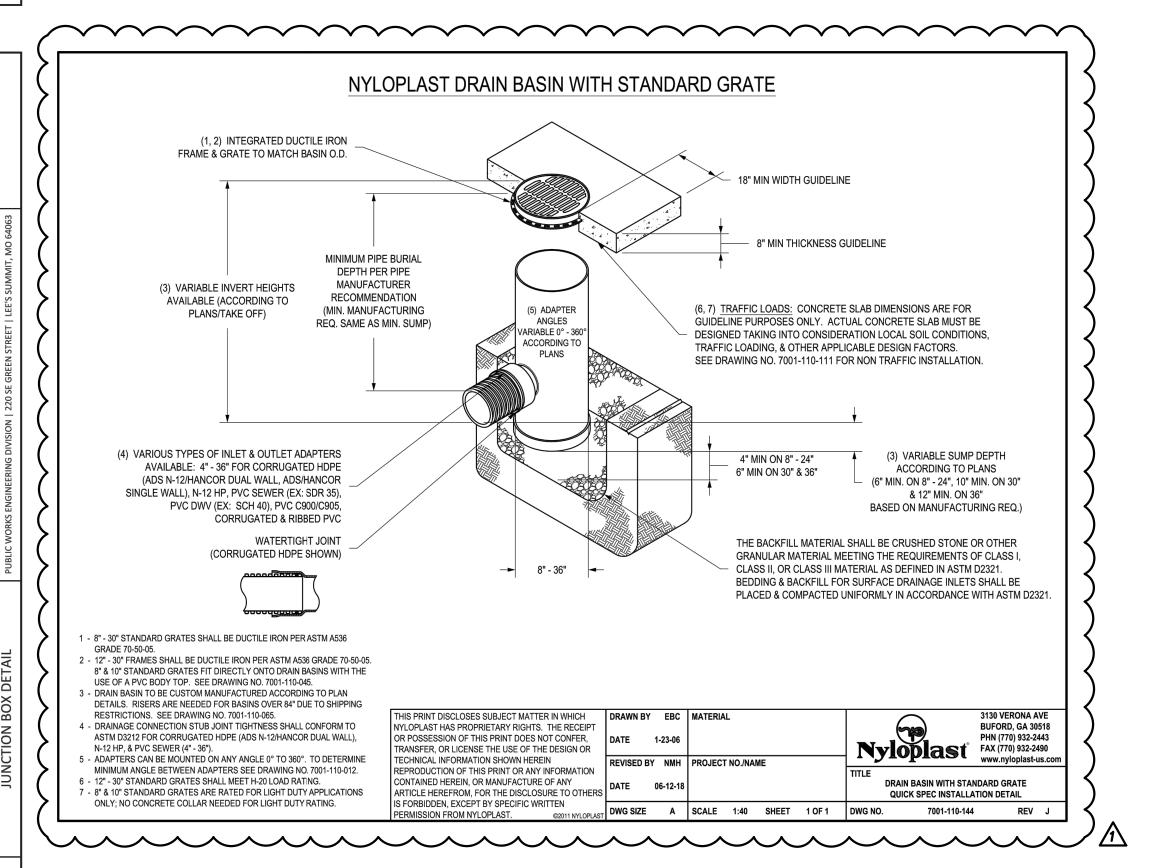


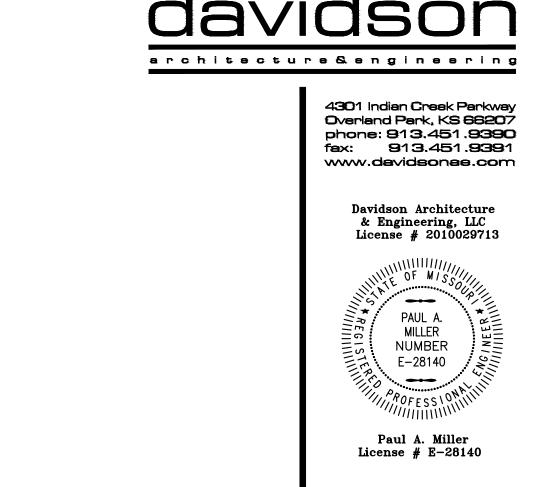
9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL

10. FOR RING AND COVER SEE THE STORMWATER APPROVED

PRODUCT LIST.

STM-3





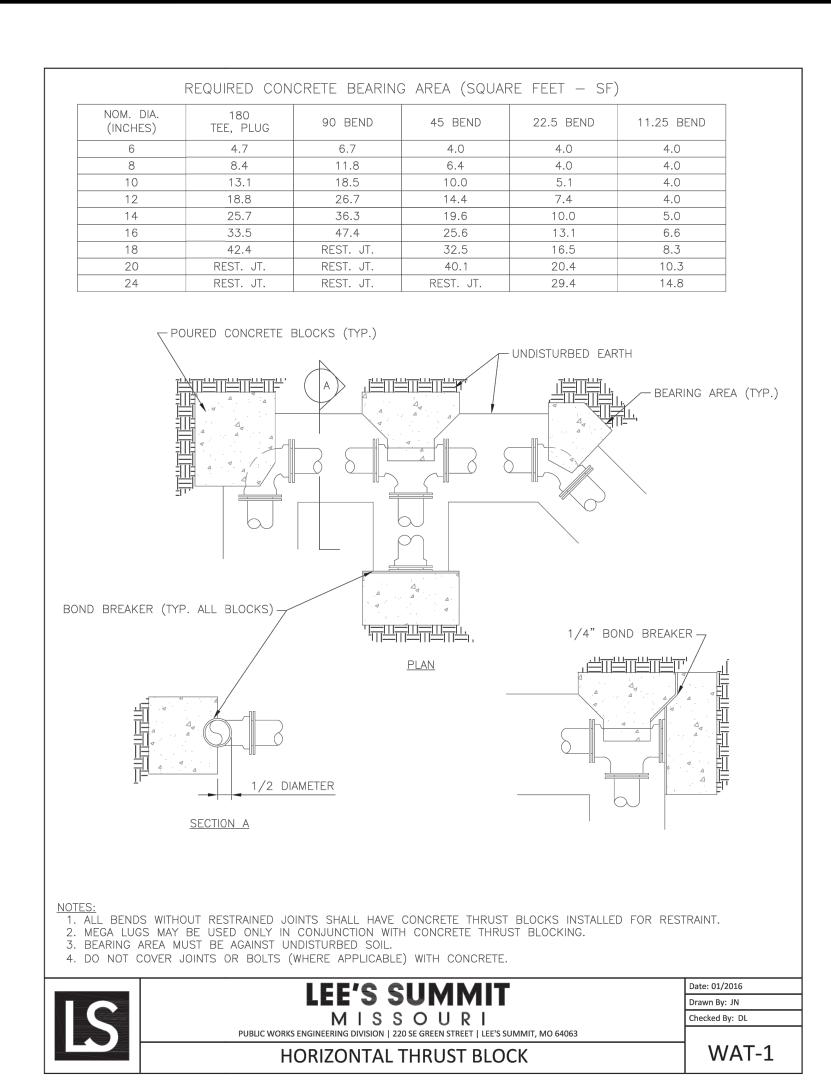


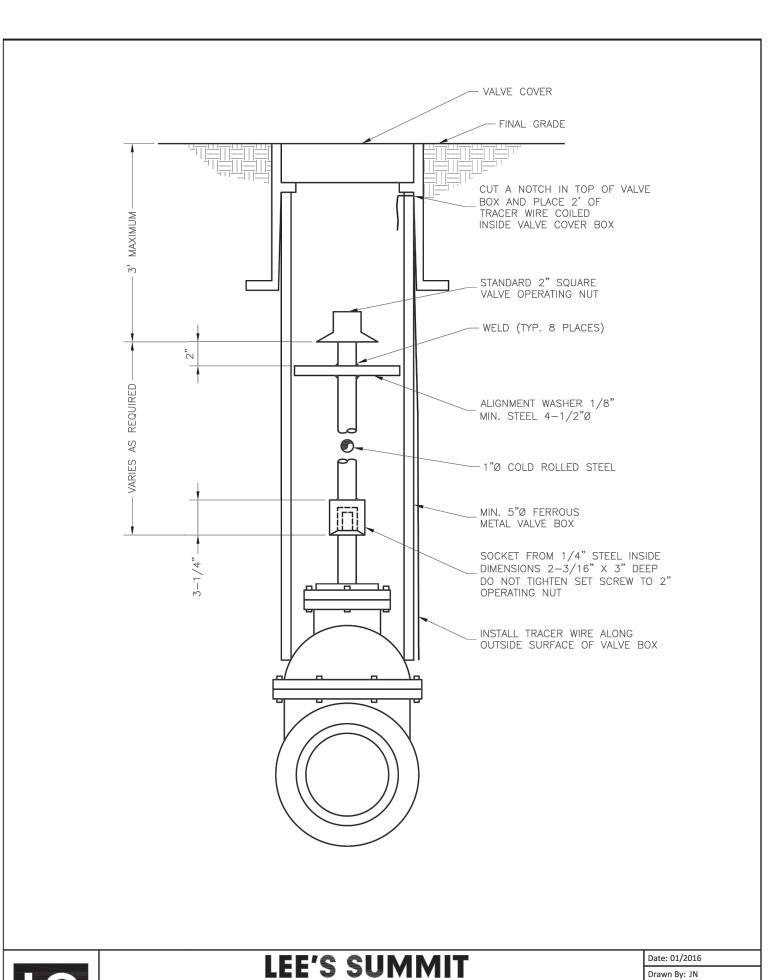
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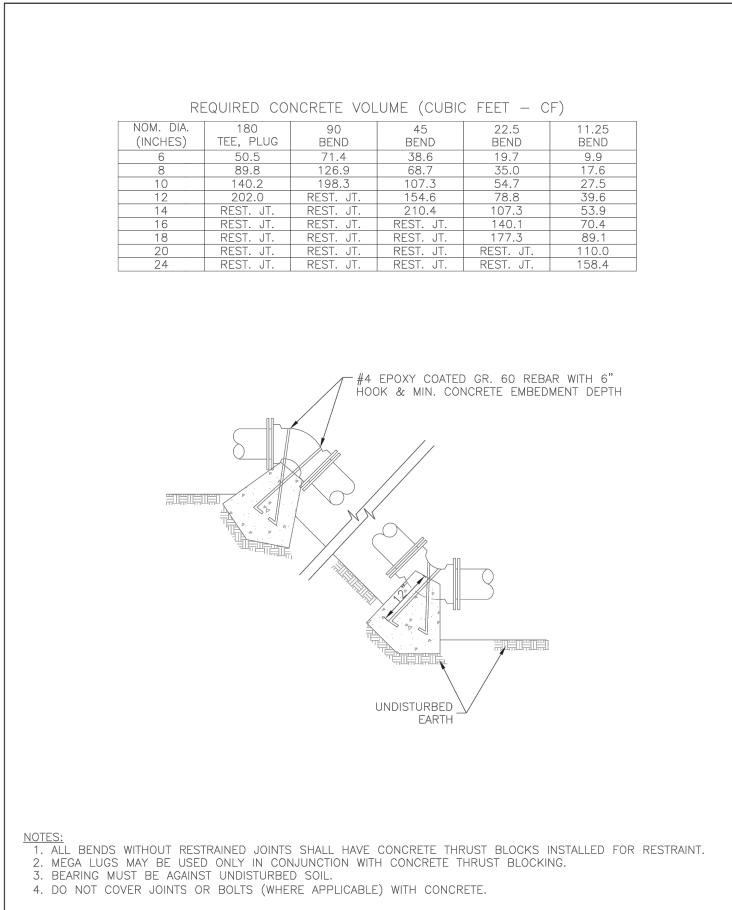


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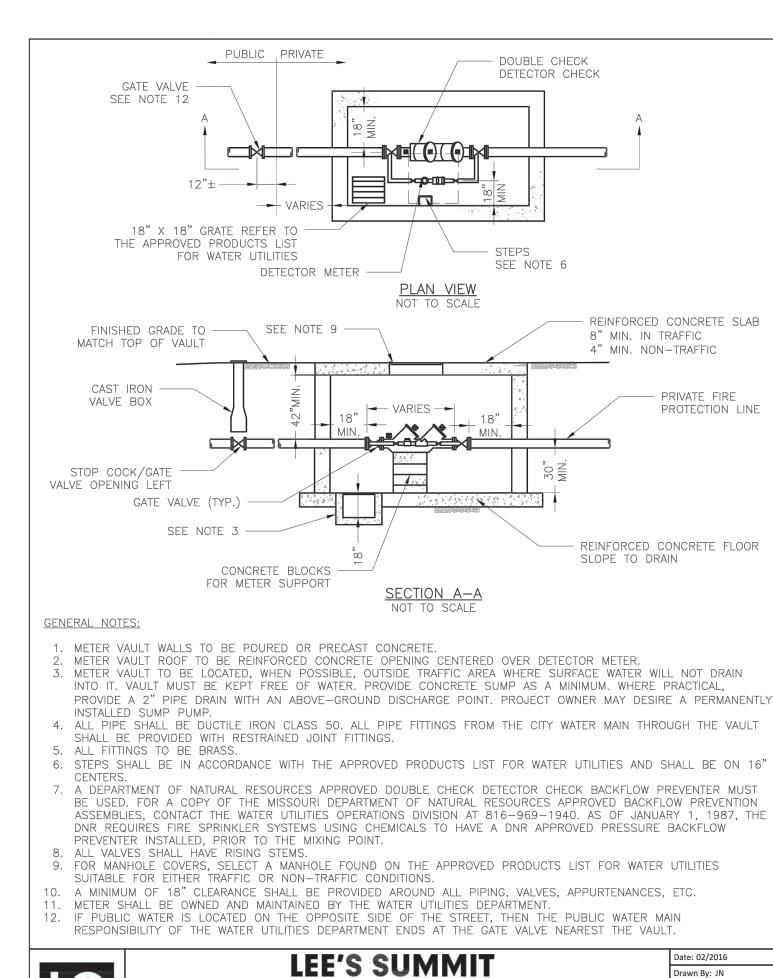
VALVE STEM EXTENSION AND VALVE BOX

hecked By: DL

WAT-9







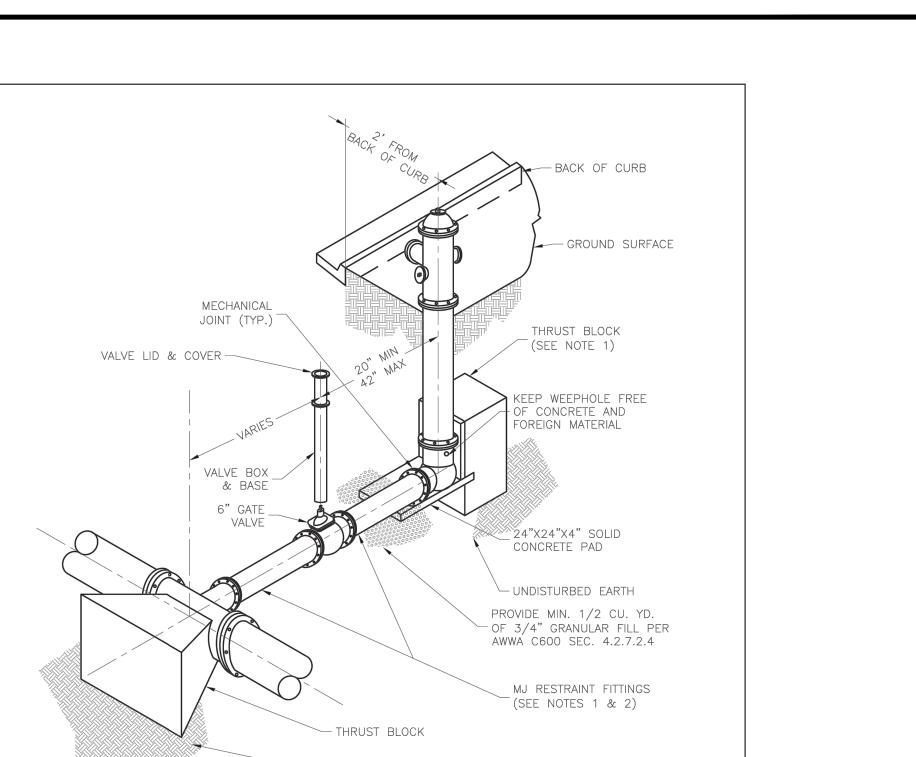
MISSOURI

VAULT FOR DOUBLE CHECK DETECTOR CHECK

awn By: JN

necked By: DL

WAT-12



- 1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
- 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE. 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID,
- 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
- 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.

6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

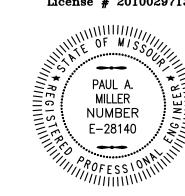


— UNDISTURBED EARTH

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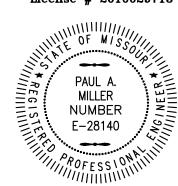
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project number

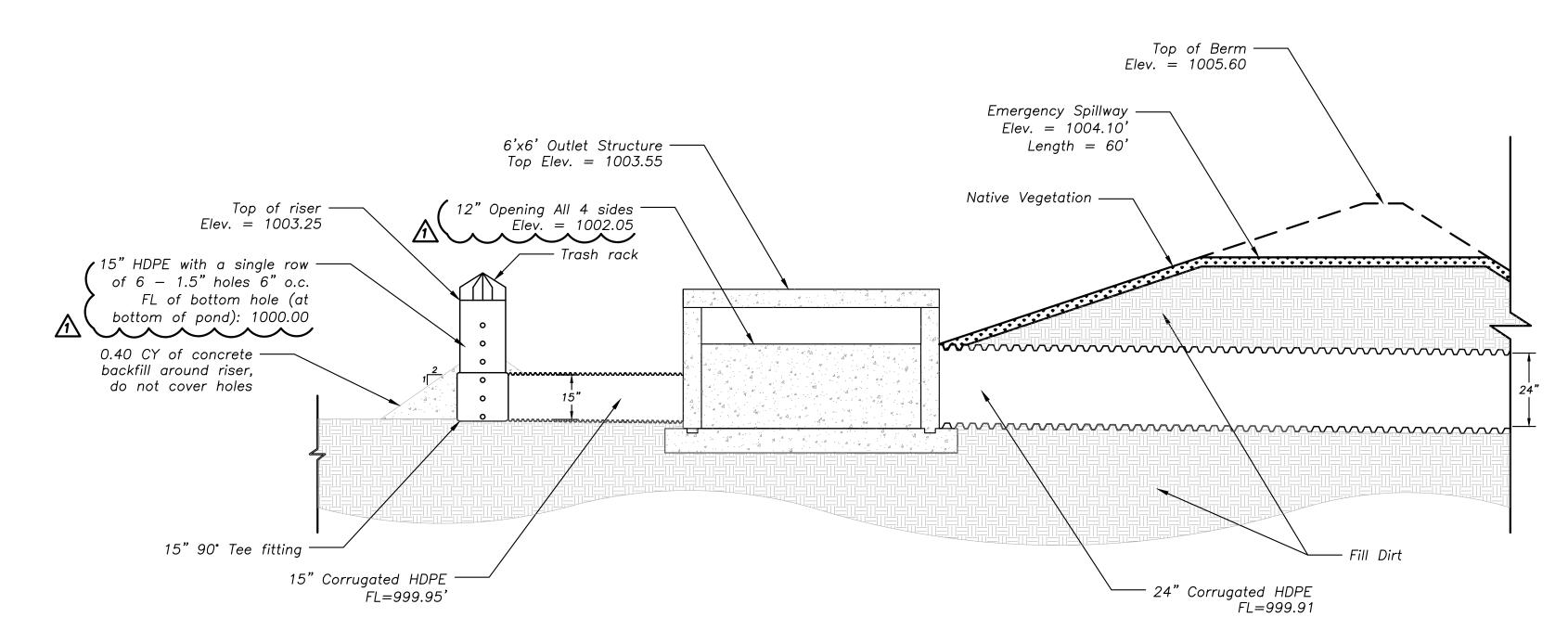
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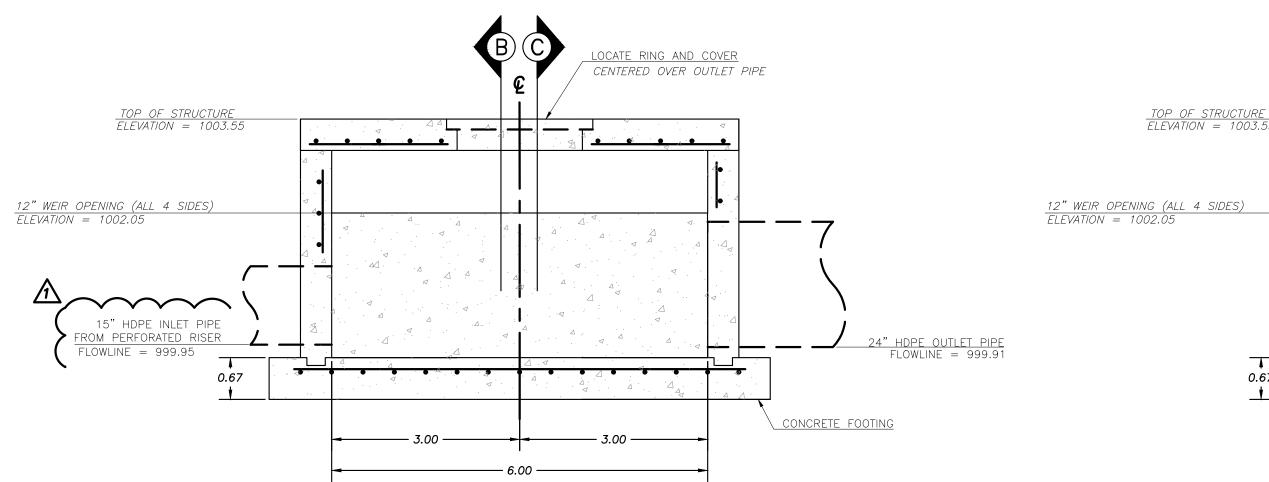
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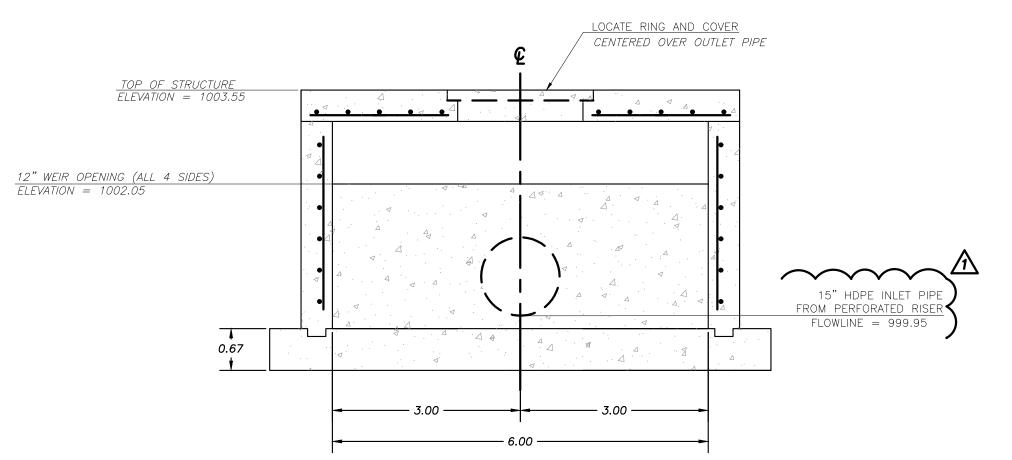


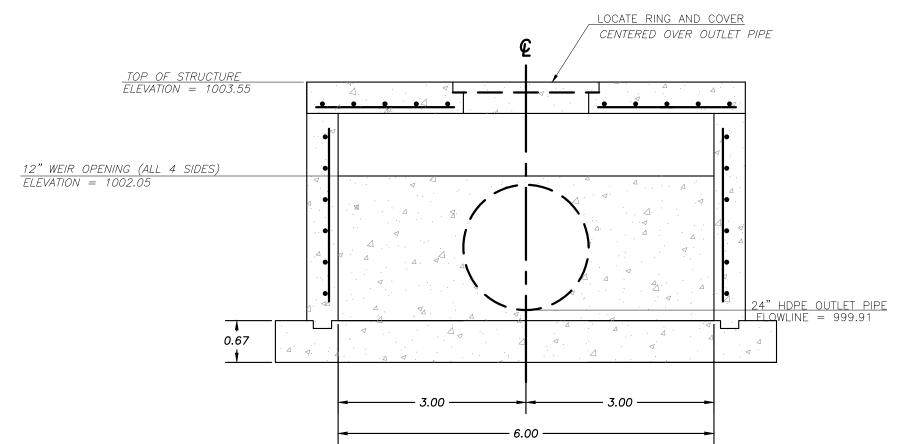
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1 Detention Basin Outlet Detail







SECTION OF STORM STRUCTURE w/WEIR

 $2^{\frac{Detention\ Basin\ Outlet\ Structure\ (Structure\ 7-2)}{\frac{1}{not\ to\ scale}}$ 

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a new development for

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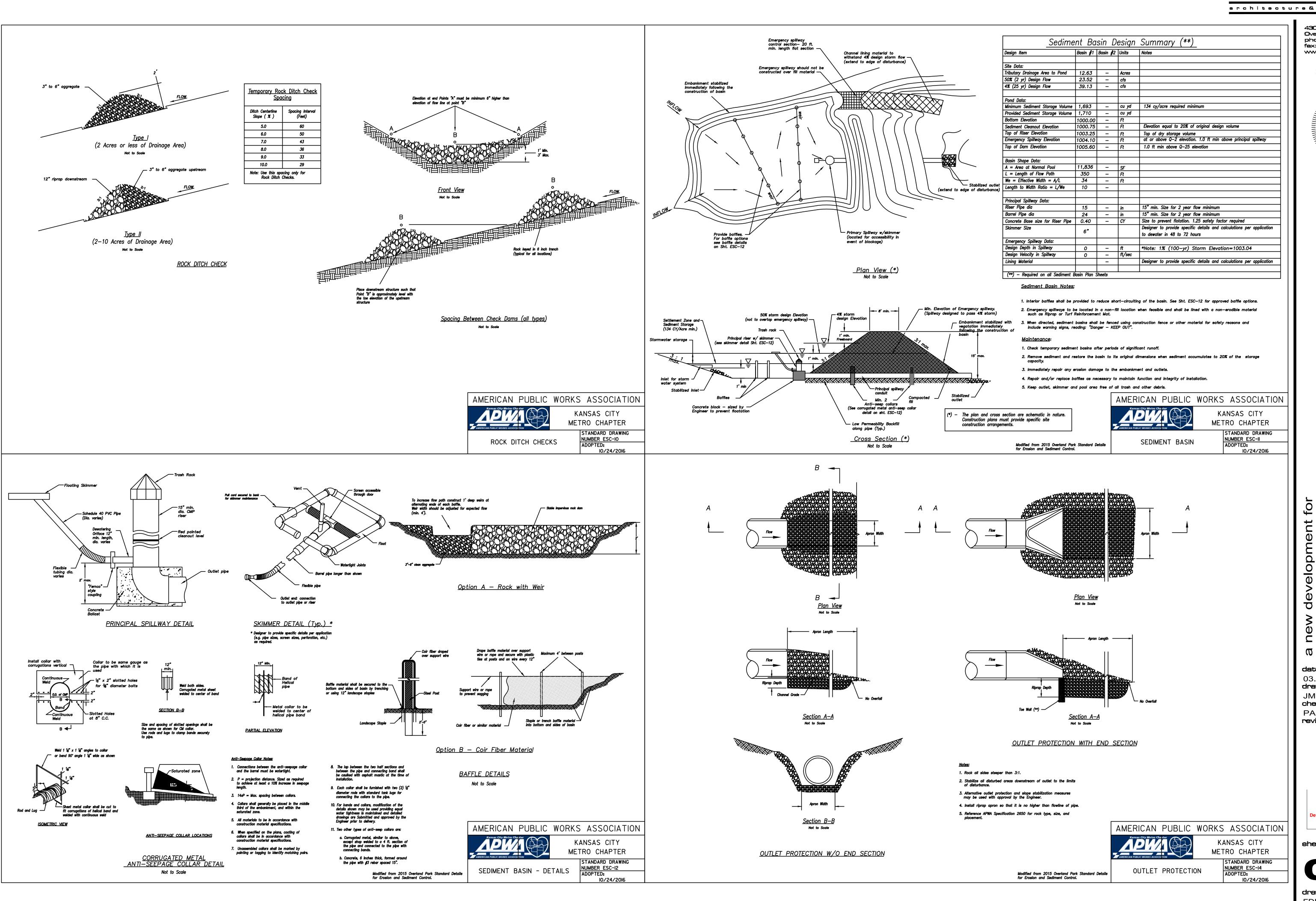


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C4.5 **drawing type** FDP project number 20231

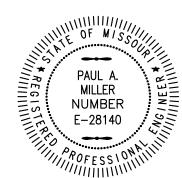
TYPICAL SECTION OF STORM STRUCTURE w/WEIR TYPICAL SECTION OF STORM STRUCTURE w/WEIR





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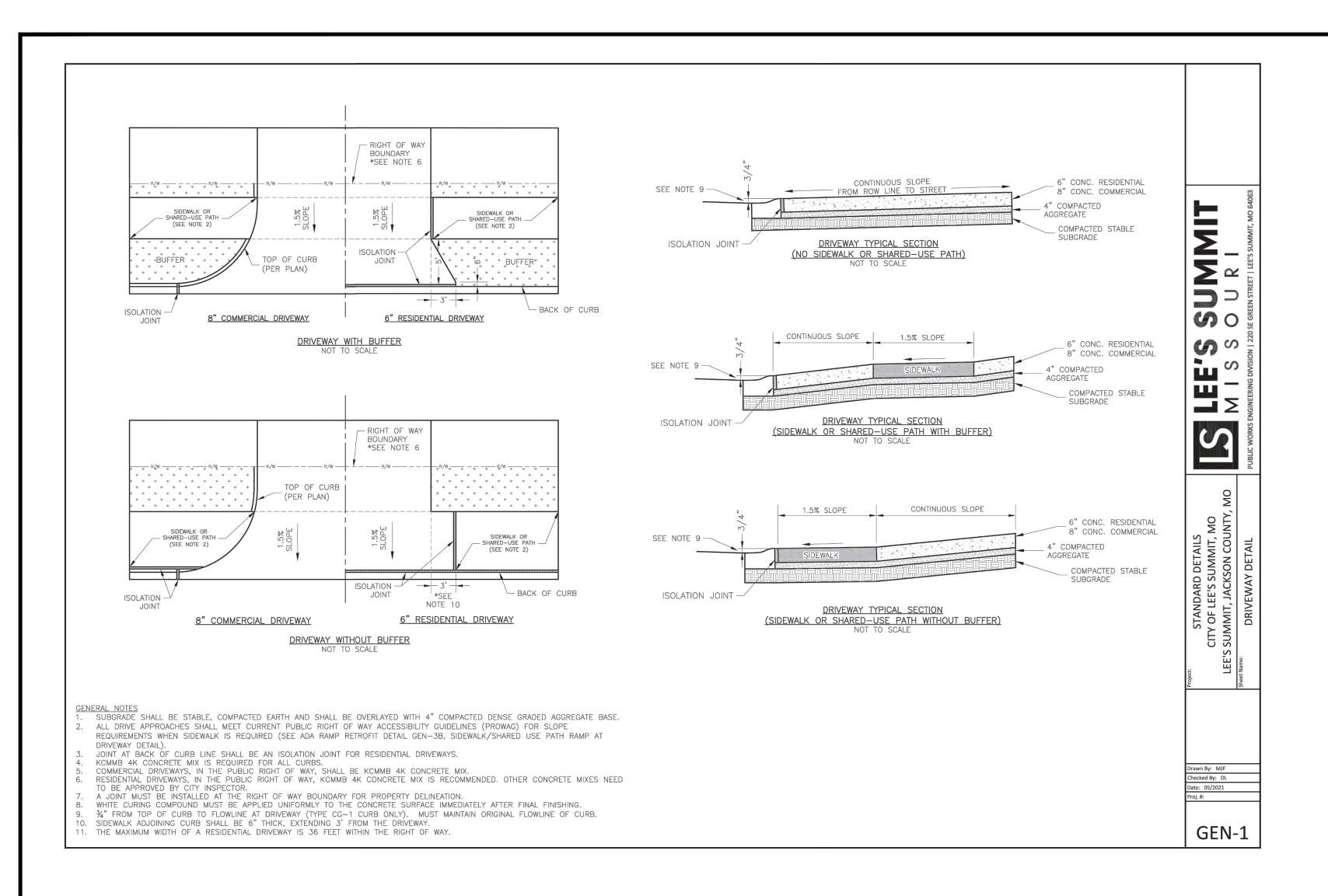
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