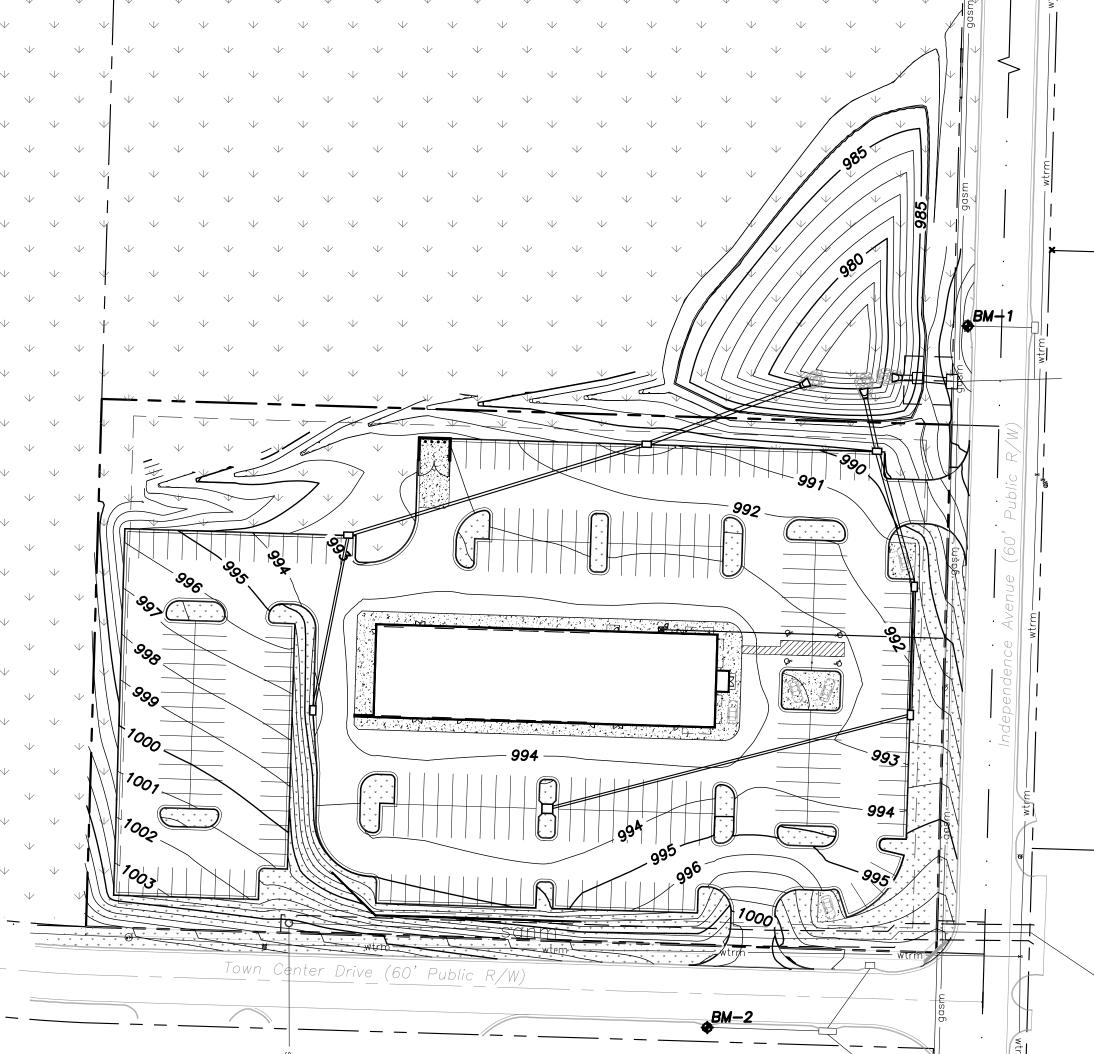
drawing type project number

19076

Mass Grading Plan for Detail Facility — Balderston 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, MO.

|Location Map

- Erosion Control shall be per the Erosion and Sediment Control Program Manual of the City of Lee's Summit, MO.
- 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
- The contractor shall be required to provide a stabilized construction entrance to prevent mud from being deposited onto
- The contractor shall be responsible for obtaining all required permits, paying all fees, and otherwise complying with all applicable regulations governing the project.
- 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
- 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 street right-of-way.

Sheet Index

C4.2 — Details

C1.0 - Cover Sheet C1.1 - Civil Notes C2.1 — Grading Plan C2.2 — Erosion Control Plan — Phase I C2.3 — Erosion Control Plan — Phase II C4.1 — Details

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 Information

Civil Engineer:

Lee's Summit Town Center, LLC Bob Balderston 3200 NW South Outer Road Lee's Summit, MO 64105 Phone: 816-229-4400 Email: bob@hifolksbob.com

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 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
- 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
- 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.

Project Information

Lee's Summit. Missouri governing municipality: CP-2~175,306 s.f. or ~4.02 acres site area: 124,303 s.f. 71% < 80% impervious area: 51,003 s.f. 29% > 20% green area: 15,993 s.f. total building area:

required parking: service establishment 5 parking spaces per 1,000 s.f. $5 \times 16,000 \text{ s.f.} = 80 \text{ parking spaces}$

232 parking spaces actual parking on site:

<u>Legal description:</u>

A part of the Northeast Quarter of the Northwest Quarter, Section 29, Township 48 North, Range 31 West, Lee's Summit, Jackson County, Missouri, described as follows:

Commencing at the Northeast corner of the Northwest Quarter of said Section 29; thence S 1°35'52"W along the East line of the Northeast Quarter of the Northwest Quarter for 991.63 feet for the Point of Beginning; thence S 1°35'52"W continuing along said East line for 330.00 feet to the Southeast corner of the Northeast Quarter of the Northwest Quarter; thence N 88°15'22"W along the South line of the Northeast Quarter of the Northwest Quarter for 561.55 feet to the Southeast corner of LEE'S SUMMIT TOWN CENTRE, LOT 1 & LOT 2, a subdivision of record; thence N 1°42′31″E along the East line of said subdivision for 330.00 feet; thence S 88°15'22"E for 560.91 feet to the Point of Beginning. Subject to the road right-of-way of Independence Avenue. Containing 4.25 acres more or less.

Per Missouri Department of Natural Resources, there are no open permits for Section 29, Township 48 North, Range 31 West, City of Lee's Summit, Jackson County, Missouri for any oil and gas wells under construction, active, inactive, plugged and/or abandoned.

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI

01/08/2021

→ Vicinity Map

Utility Contacts

Local Benchmarks: ___BM-#

<u>BM-1:</u> Storm Structure, Manhole Cover Elevation: 982.05 N: 1013823.1378

<u>BM-2:</u> Storm Structure, Manhole Cover Elevation: 982.06' N: 101382.1725

Floodplain Note:

E: 2827403.8100

E: 2827361.8656

The site lies entirely within '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.

Property Legend

 right of way
 property lines
 easements
 setbacks

Gradina Leaend

<u>Graaing L</u>	<u>_egena</u>	
		existing minor contour
		existing major contour
		proposed minor contour
		proposed major contour

<u> Utility Legend</u>

existing proposed

<u>Linetypes</u>

sanm sans	sanitary main sanitary service
========	storm sewer (existing)
	storm sewer (solid wall, proposed)
stm	storm sewer (solid wall, proposed)
=======================================	storm sewer (perforated, proposed)
wtrm	water main
wtrf	water service (fire)
wtrd	water service (domestic)
wtri	water service (irrigation)

- 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

circular structure fire hydrant

\otimes^{WV}	water	valve
M	water	meter

Sanitary - City of Lee's Summit - phone (816) 969-1900

Storm Sewer - City of Lee's Summit - phone (816) 969-1900

sanitary manhole

service cleanout

force main release valve

rectangular structure

Water - City of Lee's Summit - phone (816) 969-1900

Electric - Evergy - phone (888) 471-5275

Telephone - At&T - phone (800) 464-7928

Cable - Spectrum - phone (816) 358-8833

Gas - Spire - phone (816) 756-5252

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

guy wire end section

M

date 02.21.2020 drawn by SLM checked by

revisions 03.24.2020 09.10.2020 11.13.2020 12.14.2020 12.21.2020

sheet number

- 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, MO, 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.
- 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 geotechnical report and these drawings, any identified discrepancies shall be brought to the attention of the engineer immediately. If no geotech, report is provided for the project, the contractor shall use the minimum design standards as required by the city.
- The Contractor shall contact the City's Development Services Engineering Inspectors 48 hours prior to any land disturbance work at (816)-969-1200.
- 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, MO or the transportation department of 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 geotechnical report, which itself meets or exceeds City's requirements. Any discrepancies shall be brought to the attention of the engineer.
- 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. <u>Utility Notes:</u>
- 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, lighting, 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 installation of the silt fencing, the maintenance of the drainage swales, and the construction of the stabilized entrance shall be completed prior to any clearing and grading of any portions of the site. 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 Desian 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 Design 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 soil erosion and sedimentation control permit, and conform to the standards and specifications of the city of Lee's Summit, MO, prior to any land disturbance
- 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 drawinas 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, MO.
- ullet 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, MO 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 within 72 hours.
- Install silt fence, inlet filters, and other Erosion Control Devices as indicated in the drawings, per APWA and authority reaulations, 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>

operations.

for proper installation.

Verification Forms, SWPPP Etc.

Demolition Notes:

respective utility.

shown on the plans.

existina fill.

Retaining Wall Notes:

spot elevations.

hours prior to placement of structural fill.

demolition, should hazardous materials be encountered.

shall be undercut and replaced with structural fill.

specified by local, state and federal regulations.

any interactions with the proposed improvements.

are provided on the site grading plan.

Engineer shall be notified.

Americans with Disabilities Act (ADA) Notes:

or oats at 100lbs. per acre.

seeding. Apply the mixture at 2lbs. per 1000ft

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 $\frac{1}{2}$ ".

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

• Seedbed preparation—Install necessary mechanical erosion and sedimentation control practices before seedina. and

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

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

• 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

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

• The Contractor shall notify all utility companies for field verification and disconnection of utilities prior to any

• The Contractor is specifically cautioned that the locations and/or elevation of existing utilities as shown on these

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

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

• Remaining building structures and remaining utility services shall be protected from damage. Damage to any

• Areas disturbed during demolition shall be thoroughly evaluated by the geotechnical engineer responsible for site

• Excavations created by the removal of any existing utility lines that extend below design grades shall be cut

• The Contractor shall be responsible for obtaining all Federal, State, and local permits, obtaining all inspections,

• For tree & stump removal, the Contractor shall remove all root systems from the site not designated to be

• No construction waste shall be buried on site. All hazardous waste materials will be disposed of in the manner

• Site retaining wall improvements shall be designed by a licensed professional engineer retained by the contractor.

• 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

• Refer to Retaining Wall drawings for wall information. Civil plan set shall only be used for general location and

• The Contractor is responsible for coordinating all inspections, certifications, permits, fees and close out of the

• Any wall shown is a schematic representation of the proposed walls. The spot elevations denoting retaining walls

• 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

include in construction cost for all of the above items related to the installation of the retaining wall.

wall unless otherwise determined. Contractor shall notify wall design engineer for final inspection. Contractor shall

licensed in the state of Missouri. Design services shall be included in retaining wall pricing.

• If the wall is greater than 30" and is in an accessible area, guard rails are required per code.

The wall engineer and contractor shall satisfy themselves of the conditions of the surrounding site features and

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

• Contractor is responsible for legally disposing of all materials and associated cost of interim storage facilities.

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

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

and shall conform to all governing codes and regulations required to perform necessary abatement during

existing features to remain will be replaced at the Contractor's expense.

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

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^2 . The mulch should be anchored with disc type mulch anchoring tool or other means

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

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

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

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

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.

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



architecture&engineering

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

4301 Indian Creek Parkway Overland Park, KS 66207



phone: 913.451.9390 fex: 913,451,9391 www.davidsonae.com

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FDP

date 02.21.2020 drawn by SLM checked by PAM

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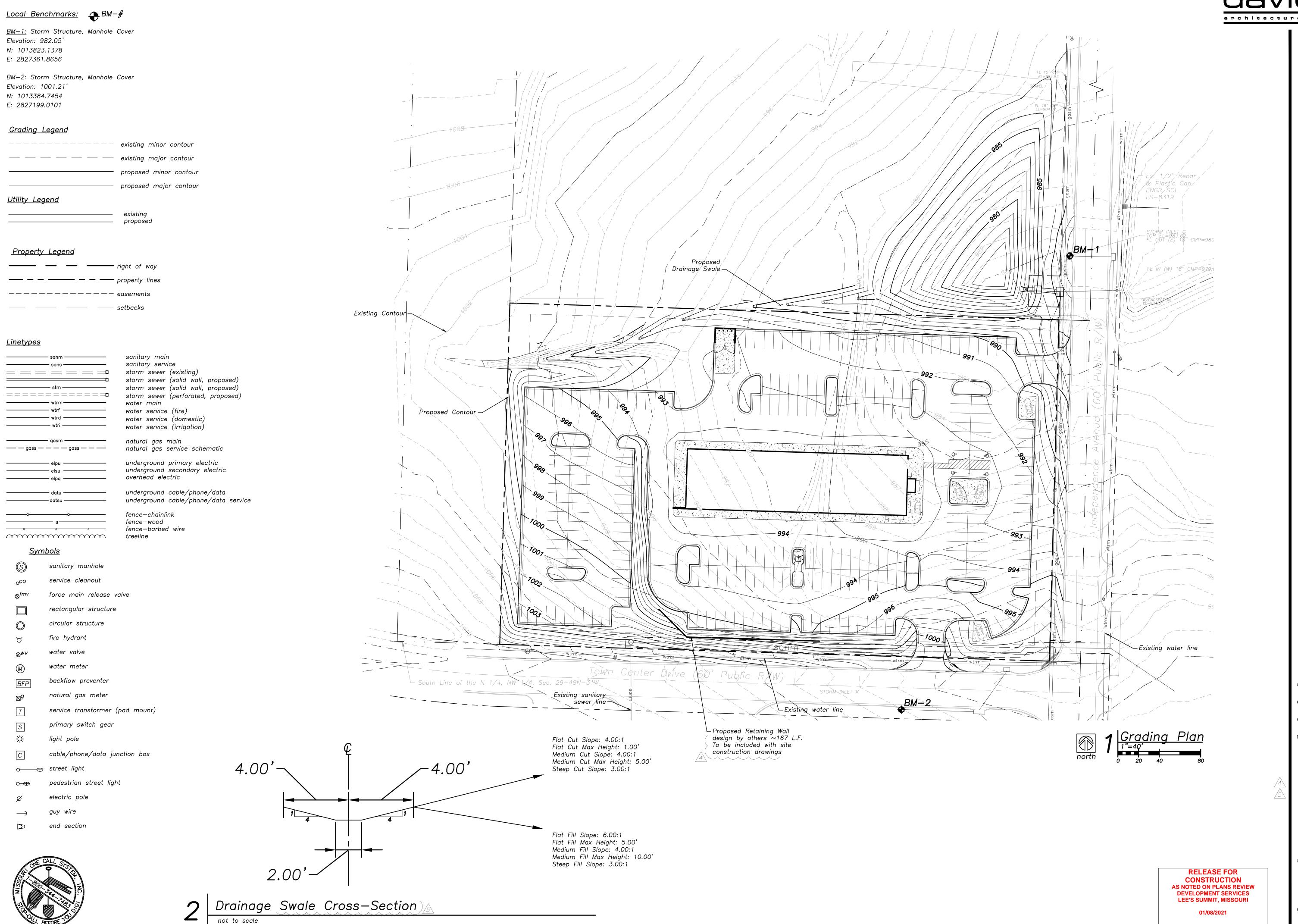
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RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW**

01/08/2021

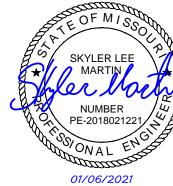
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

> drawing type fdp



architecture & engineering





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A New Facility for

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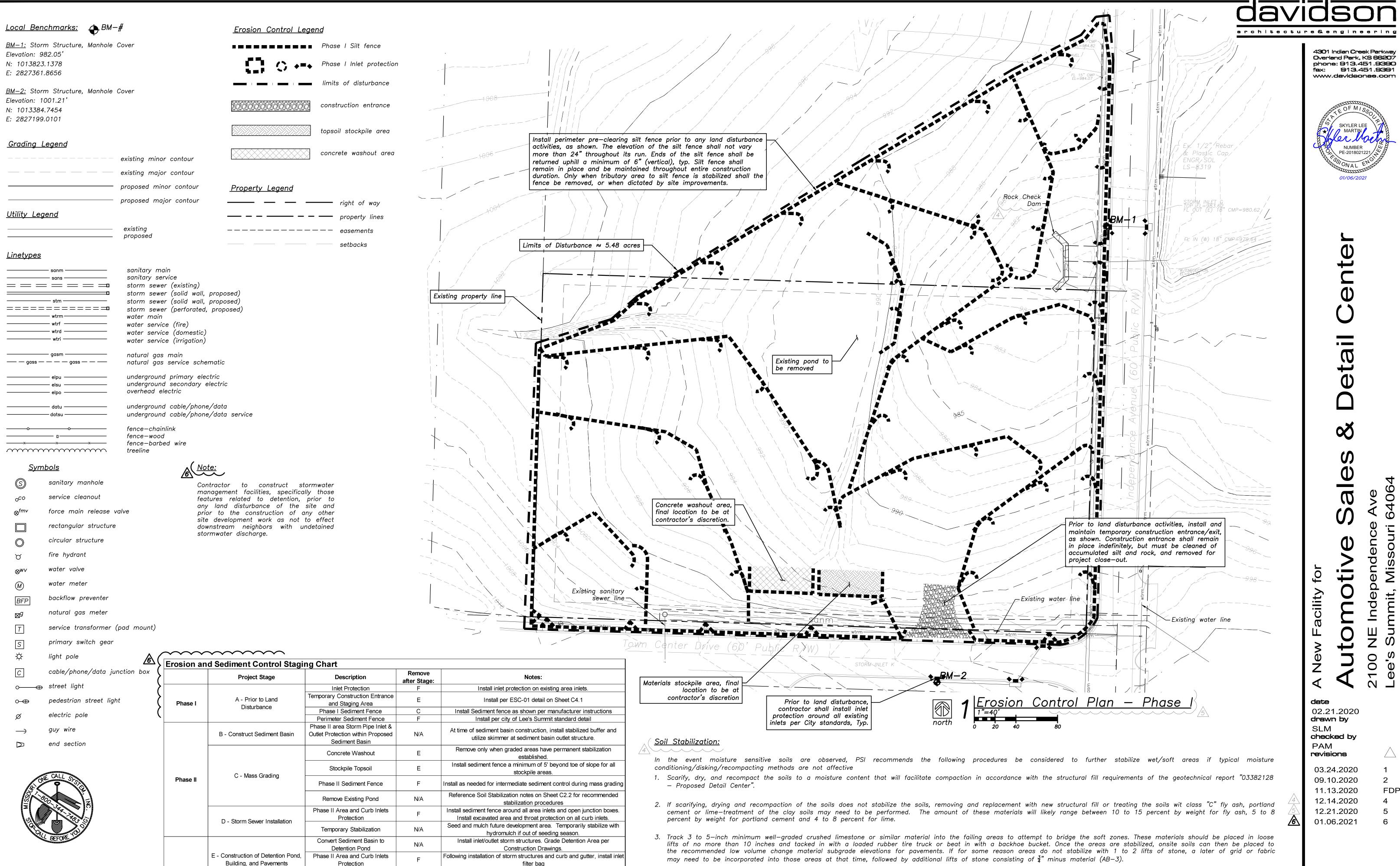
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19076



To be placed at back of curb and installed per manufacturer

instructions.

Redistribute topsoil and seed and mulch all disturbed areas. Sod right-

of-way. Stabilization complete when 100% of disturbed area is

established with perennial vegetation with a density of 70%. All plantings

shall be during approved planting season. Planting shall be per

approved landscape plan.

Sediment Log/Wattle

Establish Perennial Vegetation and

landscaping per landscape plan.

Install Native Vegetation in

designated areas using approved

seed mix.

Building Phase

F - Final Grading & Stabilization

date 02.21.2020 drawn by SLM checked by PAM

03.24.2020 09.10.2020 11.13.2020 12.14.2020 12.21.2020

01.06.2021

sheet number

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

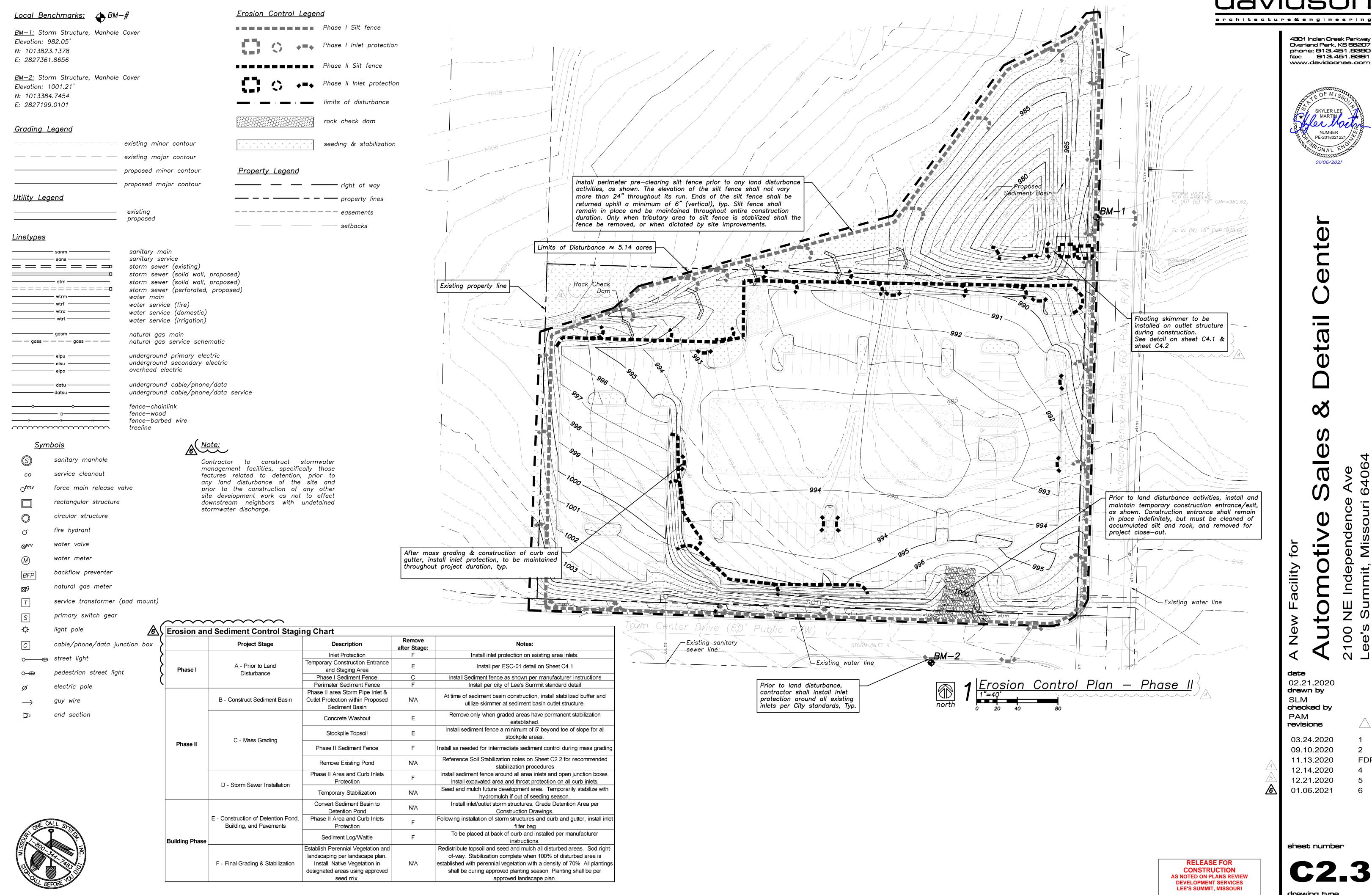
4. A fourth option would be to place a geo—grid similar to Tensar BX1100 and then place new granular fill similar to 🖁 minus material in compacted lifts. The grid should extend at

minus material an additional later of grid should then be placed and the process should be repeated until it is stabilized.

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

least 10 feet past the perimeter of the failing areas and should be overlapped according to the manufacturers requirements. If the area does not stabilize by the second lift of $\frac{3}{4}$ "

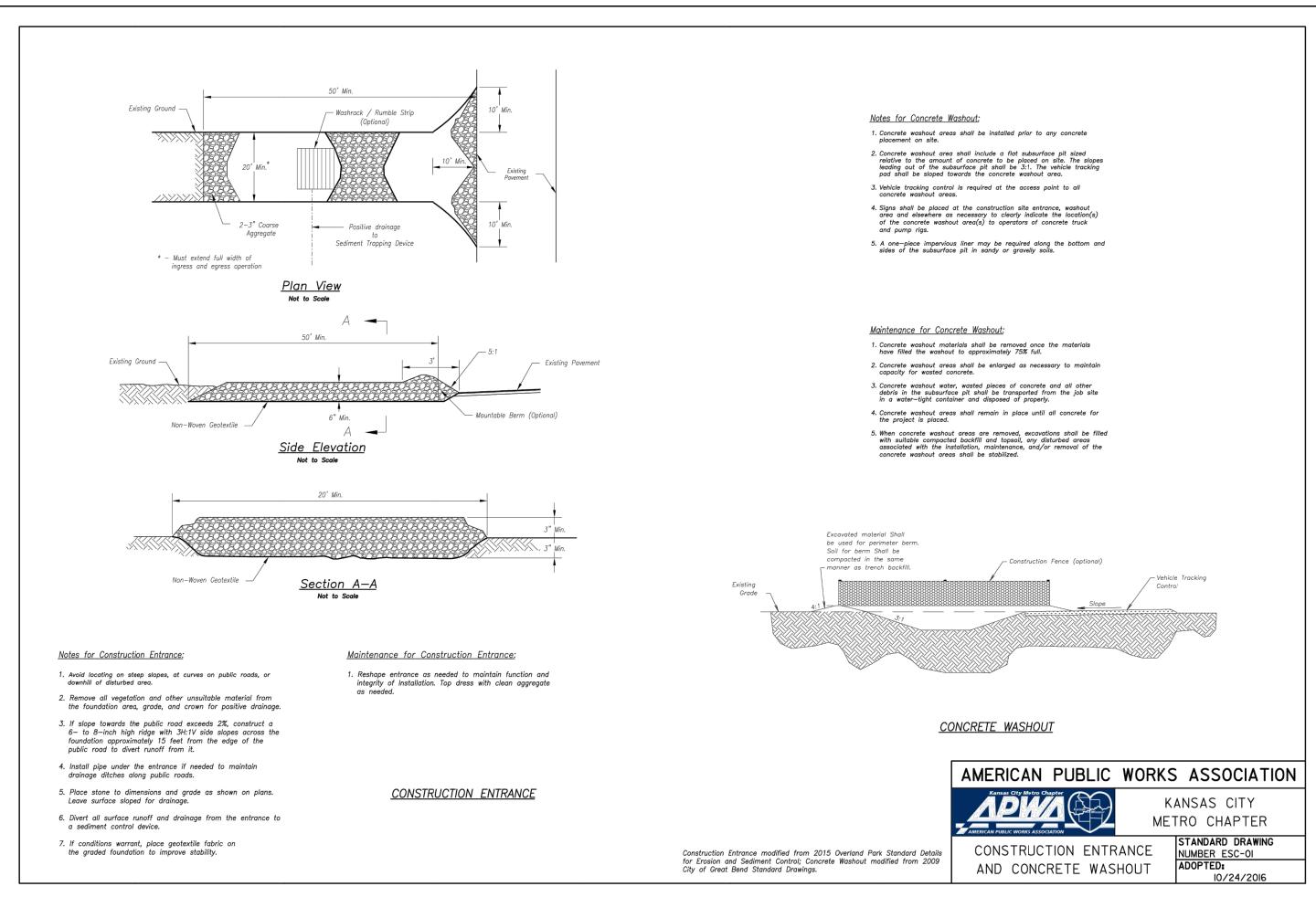
drawing type project number 19076

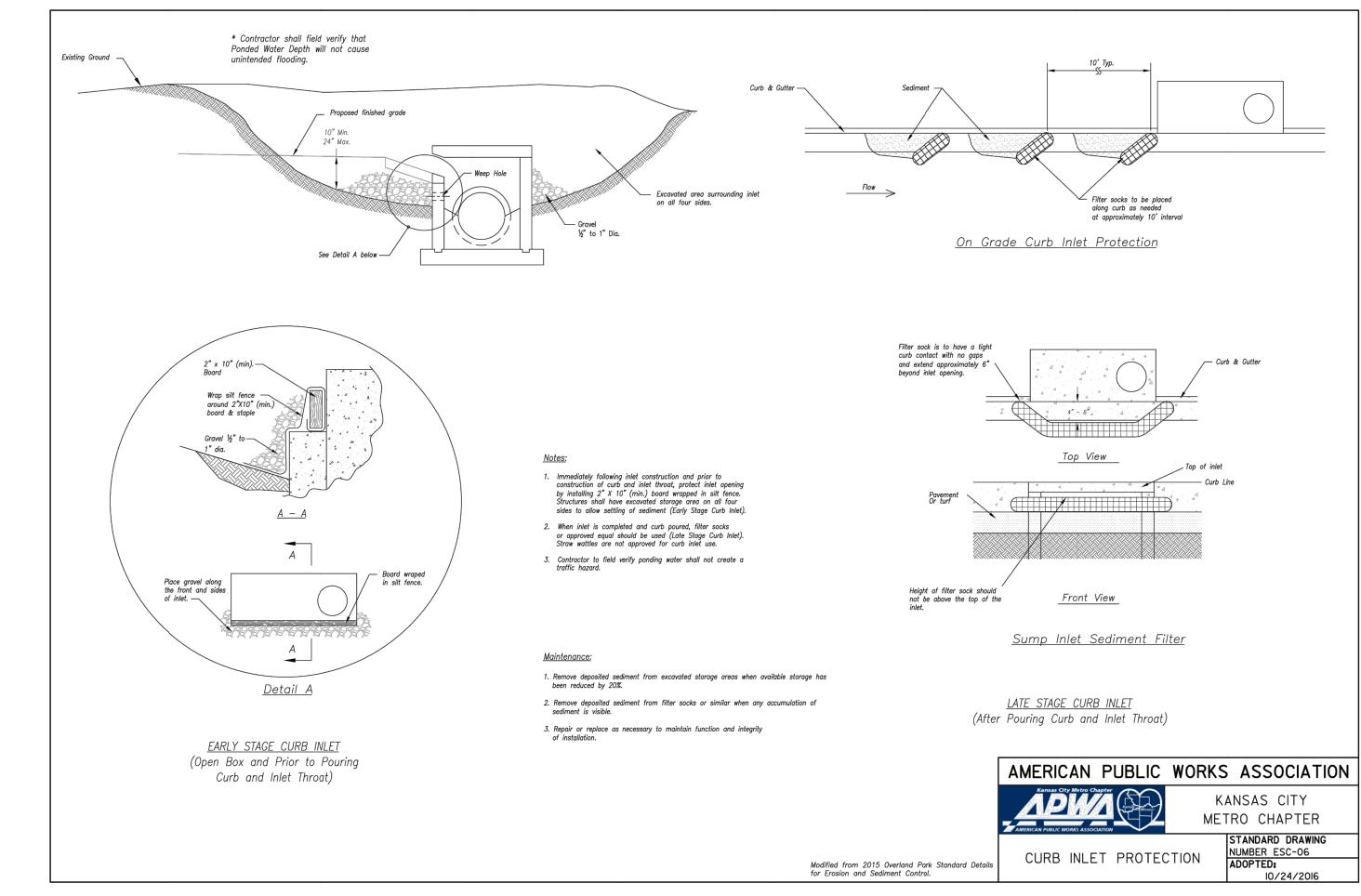


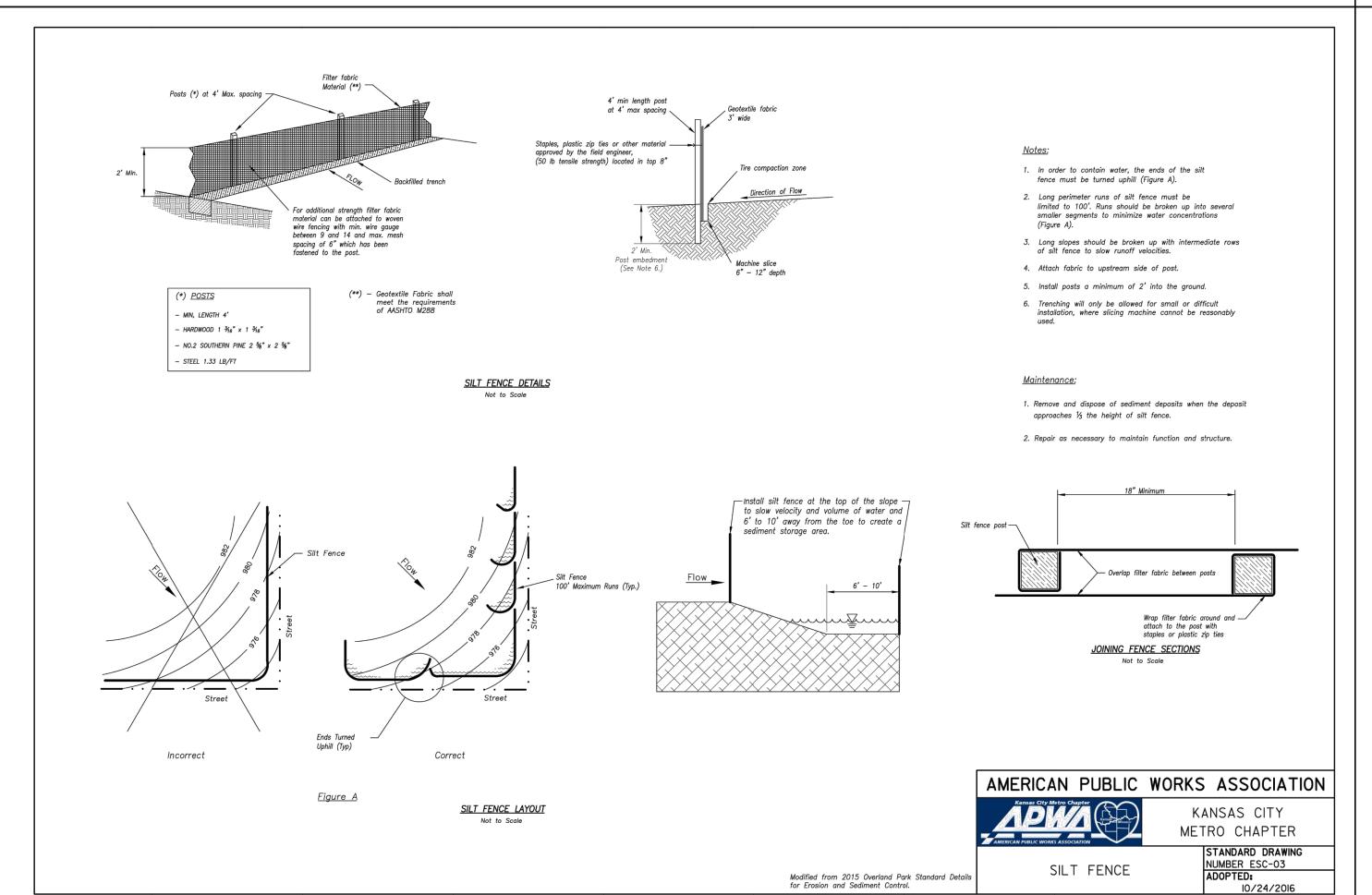
4301 Indian Creek Parkway Overland Park, KS 66207 phone: 913.451.9390 fax: 913.451.9391

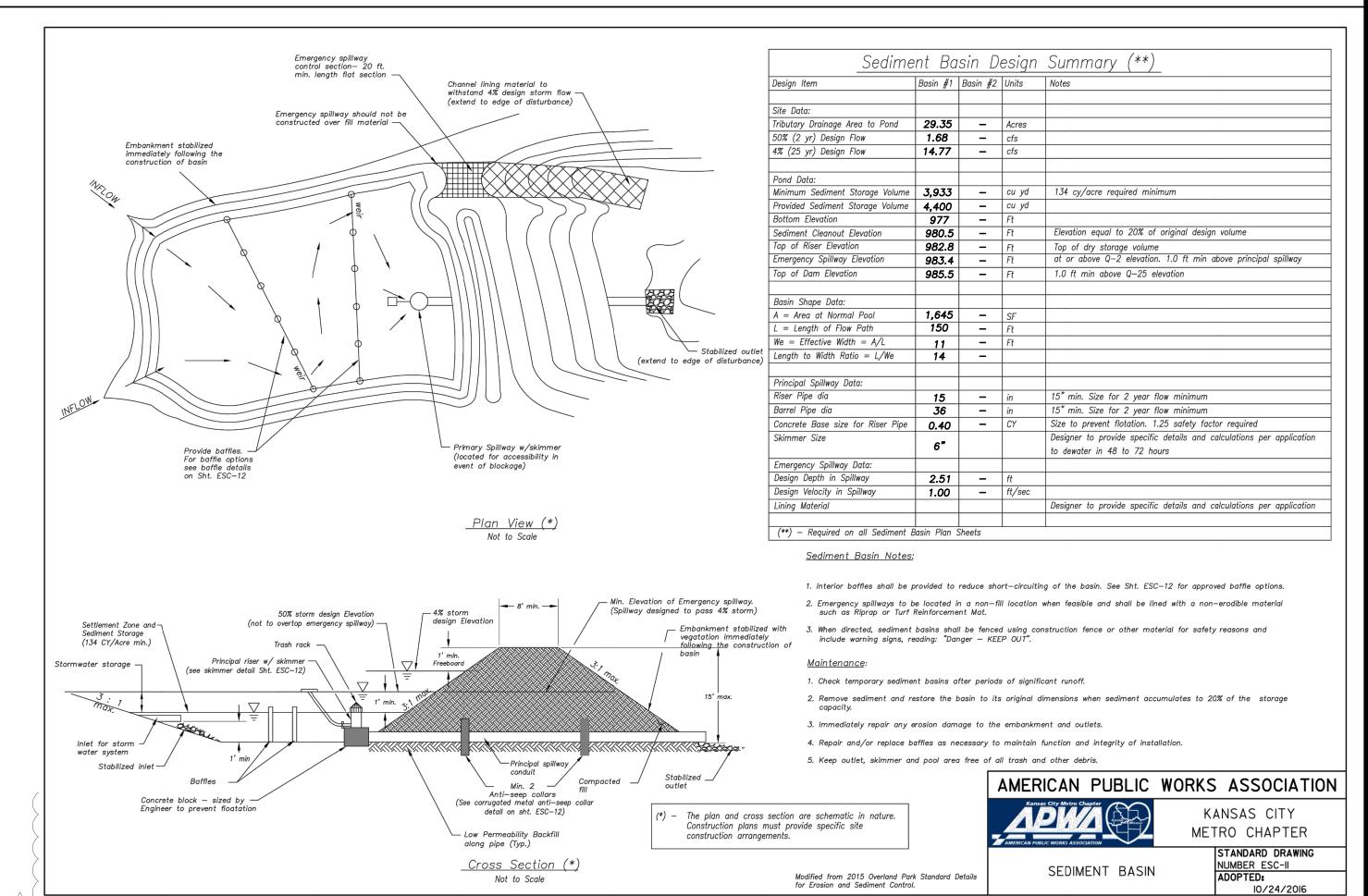


drawing type project number









RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/08/2021

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



Sales & Detail Center

New Facility for Automotive Sal

date
02.21.2020
drawn by
SLM
checked by
PAM
revisions

03.24.2020 09.10.2020 11.13.2020 12.14.2020 12.21.2020 01.06.2021

sheet number

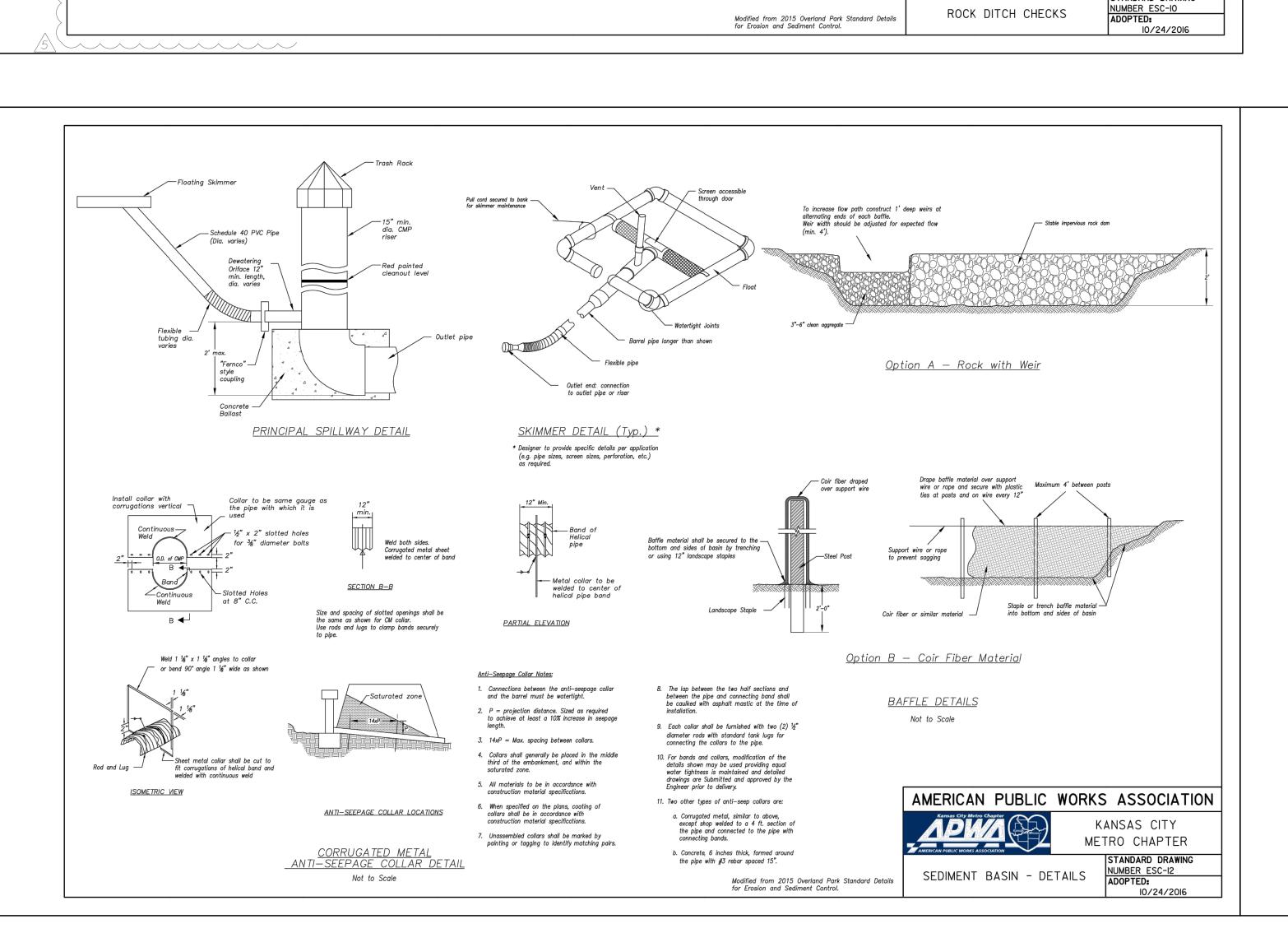
drewing type
fdp
project number
19076





RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

01/08/2021



Temporary Rock Ditch Check

Note: Use this spacing only for Rock Ditch Checks.

1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City

<u>Maintenance:</u>

Use rock checks only in situations where the ditch slope exceeds 6%.

1. Remove and dispose of sediment deposits when the deposit

2. Replace and reshape as necessary to maintain function

approaches ½ the height of the ditch check.

Spacing Interval

Elevation at end Points "A" must be minimum 6" higher than elevation of flow line at point "B"

<u>Front View</u>

Place downstream structure such that Point "B" is approximately level with the toe elevation of the upstream

Rock keyed in 6 inch trench

AMERICAN PUBLIC WORKS ASSOCIATION

ROCK DITCH CHECKS

KANSAS CITY

METRO CHAPTER

TANDARD DRAWING

Spacing Between Check Dams (all types) Not to Scale

3" to 6" aggregate

12" riprap downstream

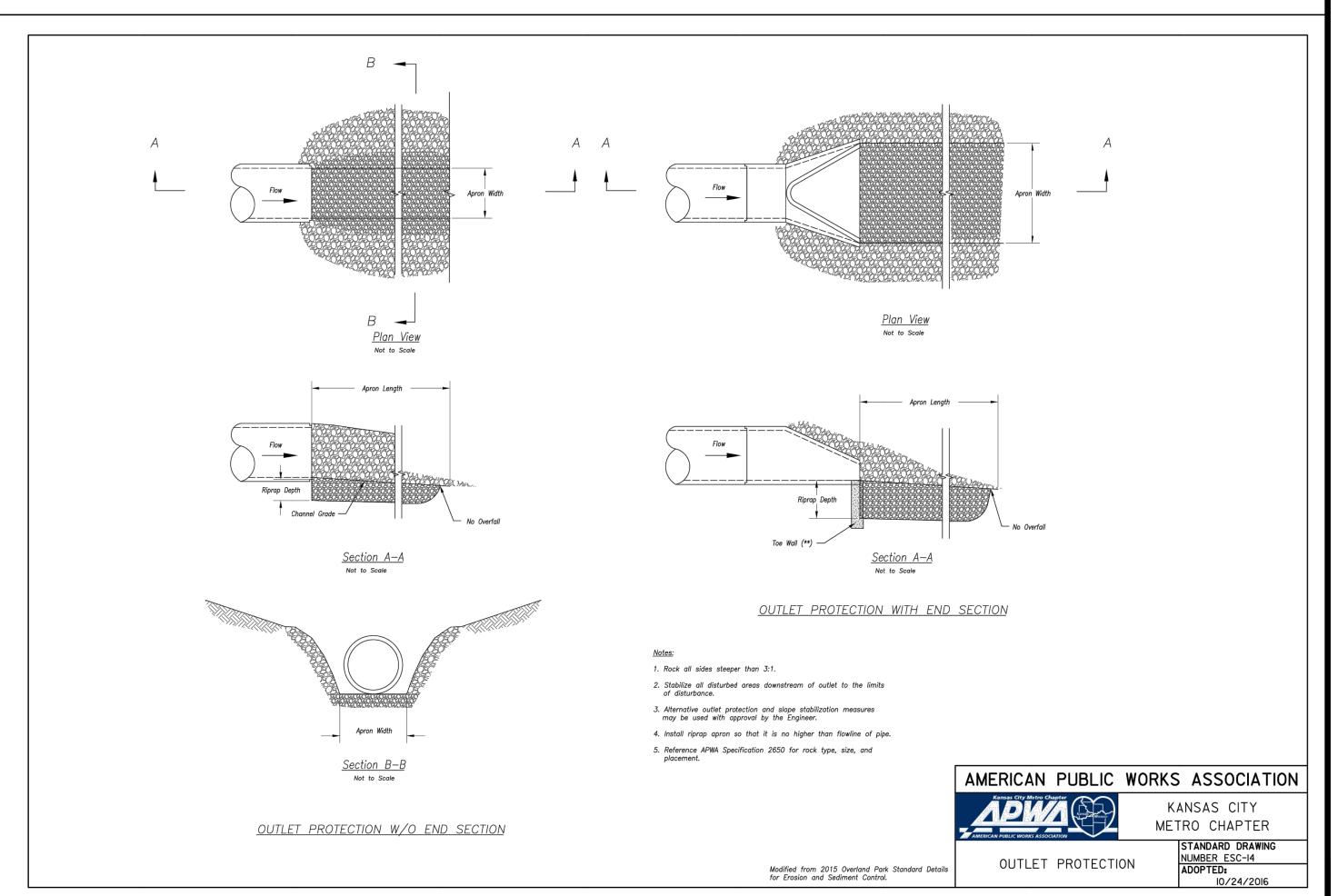
(2 Acres or less of Drainage Area) Not to Scale

(2-10 Acres of Drainage Area)

Not to Scale

__ 3" to 6" aggregate upstream

ROCK DITCH CHECK



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date 02.21.2020 drawn by SLM checked by

revisions 03.24.2020 09.10.2020 11.13.2020 12.14.2020 12.21.2020

01.06.2021

sheet number

drawing type project number