

2/15/2023 12:25:56 PM



HCA - Surgery Center of Lee's Summit

1950 SE Shenandoah Drive

Lee's Summit, MO 64063

*RENDERING FOR ILLUSTRATIVE PURPOSES ONLY

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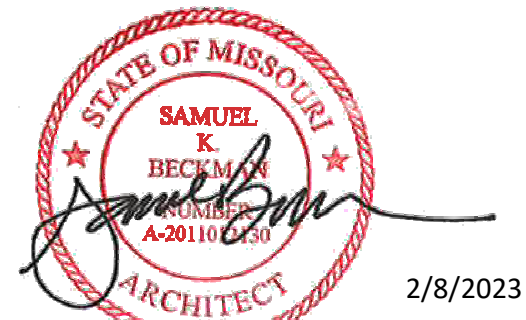
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Surgery Center of Lee's Summit
1950 SE Shenandoah Drive
Lee's Summit, MO 64063

Date 02/08/23
Job Number 3-22030
Drawn By RN
Checked By Checker

Revision
Number Date Description
1 2/14/23 Addendum #1

A0.1
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COVER SHEET

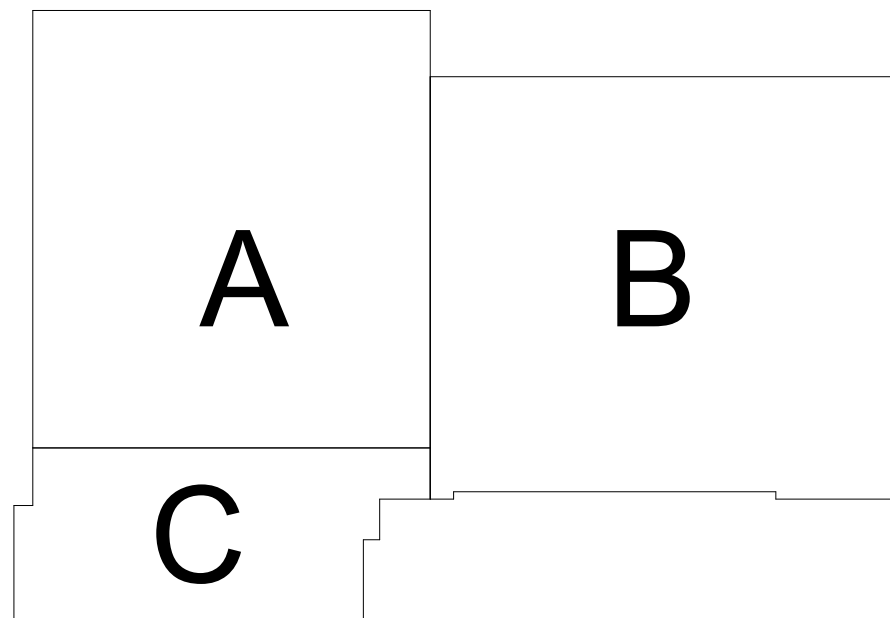
ABBREVIATIONS

AC.	ACOUSTIC/ACOUSTICAL	FLOR.	FLUORESCENT	PTD.	PAINTED
ADD.	ADDENDUM	FTG.	FOOTING	PG.	PAGE
ADDN.	ADDITION	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
AGG.	AGGREGATE BASE COURSE	FR.	FRAME	PR.	PAIR
AF	ABOVE FINISH FLOOR	F.H.C.	FIRE HOSE CAB.	PAL.	PANEL
AGG.	AGGREGATE	F.V.	FIELD VERIFY	PTN.	PARTITION
AL.	AIR CONDITIONING	GA.	GAUGE	P.	PENNY
AL.	ALUMINUM	GL.	GLASS / GLAZING	PL.	PLATE
ALT.	ALTERNATE	GD.	GRADE	PLBG.	PLUMBING
AND	ANCHOR BOLT	G.	GRAM	PLYWD.	PLYWOOD
ARCH.	ARCHITECT	GRL.	GRILLE	PT.	POINT
ASP.	ASPHALT	GRD.	GRID	P.S.I.	POUNDS PER SQ. IN.
@	AT	GRD.	GROUND	P.S.F.	POUNDS PER SQ. FT.
ACT	ACOUSTIC CEILING TILE/PANEL	G.S.	GALVANIZED STEEL	P.C.	PRECAST
Δ	ANGLE	GYP.	GYPSPUM	P.L.	PROPERTY LINE
		QWB/G.B.	GYPSPUM BOARD		
BLKG.	BLOCKING	H.R.	HAND RAIL	R.	RISER, RISERS
BSMT.	BASEMENT	HON.	HARDWARE	RAD.	RADIUS
BM.	BEAM	HDW.	HARDWARE	R.D.	ROOF DRAIN
B.M.	BENCHMARK	HDWD.	HARDWOOD	RB.	RESILIENT BASE
BD.	BOARD	HTR.	HEATER	RE	REFER TO
B.O.	BOTTOM OF BUILDING	HT.	HEIGHT	REG.	REGISTER
BLOG.	BLOCK	H.P.	HIGH POINT	REQD.	REQUIRED
CABT.	CABINET	H.M.	HOLLOW METAL	REV.	REVISION
C.I.P.	CAST IN PLACE	HORIZ.	HORIZONTAL	RFG.	ROOFING
C.B.	CATCH BASIN	H.B.	HOSE BIB	RGH.	ROUGH
CLG.	CEILING	H.W.	HOT WATER	RM.	ROOM
CEM.	CEMENT/CEMENTITIOUS			RND.	ROUND
CG.	CENTIGRAM	IN.	INCH / INCHES	R.O.	ROUGH OPENING
CM	CENTIMETER	IN.	INCH / INCHES	SCHED.	SCHEDULE
CL	CENTER LINE	INSUL.	INSULATION	S.C.	SEALED CONCRETE
CER.	CERAMIC	INT.	INTERIOR	SCR.	SCREW
C.T.	CERAMIC TILE	INV.	INVERT	SECT.	SECTION
CHAN.	CHANNEL	JAN.	JANITOR	SEL.	SELECT
C.	CLEAR	JT.	JOINT	SHG.	SHEATHING
C.O.	CLEAN OUT	JST.	JOIST	SHT.	SHEET
CLOS.	CLOSET			SIDG.	SIDING
COL.	COLUMN	K.P.	KICK PLATE	SIM.	SIMILAR
CONC.	CONCRETE	LAM.	LAMINATED	SLDG.	SLIDING
CONN.	CONNECTION	LB.	POUND	SM.	SMOOTH
CONST.	CONSTRUCTION	LGD.	LANDING	SPEC.	SPECIFICATION
C.J.	CONTROL JOINT	LTH.	LATH	SQ.	SQUARE
CONT.	CONTINUOUS	LTV.	LAVATORY	ST.	STAINED
CONTR.	CONTRACTOR	L.G.	LENGTH	STD.	STANDARD
CORG.	CORRUGATED	LOC.	LOCATION	S.S. /	STAINLESS STEEL
CTR.	COUNTER	L.O.	LOCATION	STRUC.	STRUCTURE
CTSK.	COUNTERSUNK	L.T.	LOCATION	SUSP.	SUSPENDED
C.M.U.	CONCRETE MASONRY UNIT	L.W.C.	LIGHT WEIGHT CONCRETE	SW.BD.	SWITCHBOARD
		LOC.	LOCATION	SYS.	SYSTEM
D.P.	DAMP PROOFING	M.O.	MASONRY OPENING	T.	TREAD
DB.	DECIBEL	MATL.	MATERIAL	T.C.	TOP OF CURB
DIAG.	DIAGONAL	MFR.	MANUFACTURER	T.O.	TEMPERED GLASS
DIAM.	DIAMETER	MB.	MARKER BOARD	T.O.	TOP OF
DIM.	DIMENSION	M&X.	MAXIMUM	T.S.D.	TOP OF STEEL DECK
DISP.	DISPENSER	MECH.	MECHANICAL	T.W.	TEACHERS WARDROBE
DWL.	DOWEL	MTL.	METAL	TYP.	TYPICAL
DN.	DOWN	M.L.	METAL LATH		
D.S.	DOWNSPOUT	M.	METER	U.N.O.	UNLESS NOTED OTHERWISE
DWG.	DRAWING	MIN.	MINIMUM	V.	VENT
		MDG.	MOLDING	VERT.	VERTICAL
EA.	EACH	MULL.	MULLION	V.G.	VERTICAL GRAIN
ELEC.	ELECTRIC			VEST.	VESTIBULE
E.W.C.	ELECTRIC WATER COOLER	N.G.	NATURAL GRADE	V.C.T.	VINYL COMPOSITION TILE
EL.	ELEVATION	NOM.	NOMINAL	VCP.	VITREOUS CLAY PIPE
ELEV.	ELEVATOR	N.I.C.	NOT IN CONTRACT		
EQ.	EQUAL	N.T.S.	NOT TO SCALE		
EQUIP.	EQUIPMENT	NO. / #	NUMBER	W.W.M.	WELDED WIRE MESH
EXH.	EXHAUST	OBS.	OBSOLETE	W.C.	WATER CLOSET
EXPN.	EXPANSION	O.C.	ON CENTER	W.H.	WATER HEATER
E.J.	EXPANSION JOINT	OPNG.	OPENING	W.F.	WIDE FLANGE
EXIST.	EXISTING	O.A.	OVERALL	W/O	WITHOUT
EXT.	EXTERIOR	O.D.	OUTSIDE DIAMETER	WD.	WOOD
		O.F.S.	OVERFLOW SCUPPER	WDW.	WINDOW
FT.	FEET / FOOT	O.H.D.	OVERHEAD DOOR	W.W.	WINDOW WALL
FIN.	FINISH				
FKT.	FIXTURE				
FL.	FLASHING				
FLR.	FLOOR				
F.D.	FLOOR DRAIN				

LOCATION PLAN



KEY PLAN

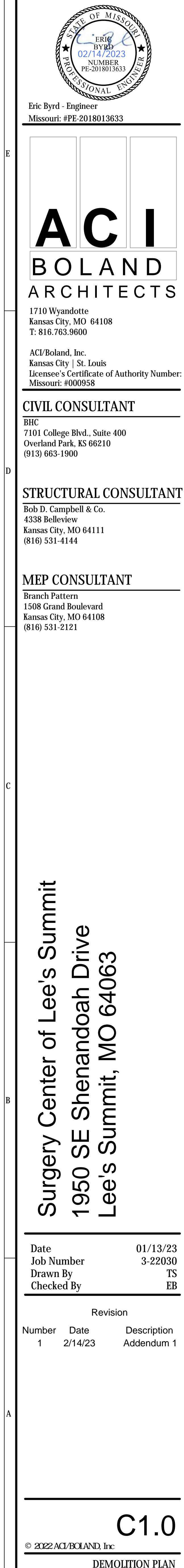


SHEET INDEX - CORE/SHELL

SHEET NUMBER	SHEET NAME
GENERAL	COVER SHEET
A0.1	CODE FOOTPRINT PLAN
A0.2	PARTITION TYPES AND DETAILS
A0.3	U.L. DESIGN ASSEMBLIES
A0.5	GENERAL NOTES, LEGENDS & SYMBOLS
CIVIL	DEMOLITION PLAN
C0.1	DEMOLITION PLAN
C1.0	SITE PLAN
C2.1	DIMENSION PLAN
C3.0	OVERALL GRADING PLAN
C3.1	TOP OF CURB PLAN
C3.2	ADA GRADING DETAIL PLAN
C4.0	PRE-CONSTRUCTION EROSION CONTROL PLAN
C4.1	MD-CONSTRUCTION EROSION CONTROL PLAN
C4.2	POST-CONSTRUCTION EROSION CONTROL PLAN
C5.0	UTILITY PLAN
C5.1	PHOTOMETRIC PLAN
C6.0	STORM DRAINAGE MAP & CALCULATIONS
C6.1	STORM PLAN & PROFILE
C6.2	STORM PLAN & PROFILE 2
C6.3	NORTH DETENTION BASIN PLAN
C6.4	SOUTH DETENTION BASIN PLAN
C7.0	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS 2
C7.2	CONSTRUCTION DETAILS 3
C7.3	CONSTRUCTION DETAILS 4
C7.4	CONSTRUCTION DETAILS 5
L1.0	LANDSCAPE PLAN
L2.0	PLANTING DETAILS
L2.1	IRRIGATION DETAILS 1
L2.2	IRRIGATION DETAILS 2
ARCHITECTURE	ARCHITECTURAL SITE PLAN & DETAILS
A1.0	FIRST FLOOR DIMENSION PLAN
A2.1	ROOF PLAN
A2.2	ROOF DETAILS
A2.3	PLAN DETAILS
A2.4	REFLECTED CEILING PLAN
A3.1	ROOM AND FRAME SCHEDULE LINE AND DETAILS
A4.1	EXTERIOR ELEVATIONS
A5.1	GLAZING ELEVATIONS
A5.2	GLAZING ELEVATIONS
A6.1	WALL SECTIONS
A6.2	WALL SECTIONS
A6.3	SECTION DETAILS
A6.4	SECTION DETAILS
A6.5	SECTION DETAILS
A6.6	SECTION DETAILS
STRUCTURAL	GENERAL NOTES
S0.1	FOUNDATION PLAN
S1.0	LOW ROOF & CANOPY FRAMING PLAN
S2.0	HIGH (MAN) ROOF FRAMING PLAN
S2.1	BRACING ELEVATIONS
S2.2	FOUNDATION SECTIONS
S3.0	ROOF FRAMING SECTIONS
S4.0	ROOF FRAMING SECTIONS
S4.1	ROOF FRAMING SECTIONS
S4.2	CANOPY FRAMING SECTIONS
S4.3	ROOF FRAMING SECTIONS
S4.4	ROOF FRAMING SECTIONS

SHEET INDEX - TI

SHEET NUMBER	SHEET NAME
ARCHITECTURE	TI - FIRST FLOOR PLAN
TI.A2.1	ENLARGED ANNOTATION PLAN - AREA A
TI.A2.2	ENLARGED ANNOTATION PLAN - AREA B
TI.A2.3	ENLARGED ANNOTATION PLAN - AREA C
TI.A2.4	FIRST FLOOR REFLECTED CEILING PLAN
TI.A3.1	ENLARGED RCP - AREA A
TI.A3.2	ENLARGED RCP - AREA B
TI.A3.3	ENLARGED RCP - AREA C
TI.A3.4	DOOR AND FRAME SCHEDULE AND DETAILS
TI.A4.1	ROOM FINISH SCHEDULE & FINISH LEGEND
TI.A4.2	FFE SCHEDULE
TI.A4.3	INTERIOR ELEVATIONS
TI.A4.4	INTERIOR ELEVATIONS
TI.A4.5	INTERIOR DETAILS
TI.A4.6	INTERIOR DETAILS
TI.A4.7	INTERIOR DETAILS
TI.A4.8	INTERIOR DETAILS
MECHANICAL	MECHANICAL LEGEND & NOTES
M0.1	FIRST FLOOR HVAC PLAN - OVERALL
M1.1	FIRST FLOOR HVAC PLAN - AREA A
M1.1A	FIRST FLOOR HVAC PLAN - AREA B
M1.1B	FIRST FLOOR HVAC PLAN - AREA C
M1.1C	FIRST FLOOR HVAC ROOM PRESSURIZATION PLAN - OVERALL
M2.1	FIRST FLOOR HYDRONIC PLAN - AREA A
M2.1A	FIRST FLOOR HYDRONIC PLAN - AREA B
M2.1B	FIRST FLOOR HYDRONIC PLAN - AREA C
M2.1C	FIRST FLOOR HYDRONIC PLAN - AREA C
M3.1	ROOF MECHANICAL PLAN
M4.1	MECHANICAL DETAILS
M4.2	MECHANICAL DETAILS
M5.1	MECHANICAL SCHEDULES
M5.2	MECHANICAL SCHEDULES
M5.3	MECHANICAL SCHEDULES
M6.1	MECHANICAL SCHEMATICS
M6.2	MECHANICAL SCHEMATICS
M6.3	ENLARGED MECHANICAL PLANS
M6.4	ENLARGED MECHANICAL PLANS
M7.1	MECHANICAL CONTROLS
M7.2	MECHANICAL CONTROLS
M7.3	MECHANICAL CONTROLS
PLUMBING	FIRE PROTECTION GENERAL NOTES
FP.1	FIRST FLOOR FIRE PROTECTION PLAN
FP.1.1	PLUMBING LEGEND & NOTES
P0.1	UNDERSLAB PLUMBING PLAN - OVERALL
P1.0	UNDERSLAB PLUMBING PLAN - AREA A
P1.0A	UNDERSLAB PLUMBING PLAN - AREA B
P1.0B	UNDERSLAB PLUMBING PLAN - AREA C
P1.0C	FIRST FLOOR PLUMBING PLAN - OVERALL
P1.1	FIRST FLOOR PLUMBING PLAN - AREA A
P1.1A	FIRST FLOOR PLUMBING PLAN - AREA B
P1.1B	FIRST FLOOR PLUMBING PLAN - AREA C
P1.1C	FIRST FLOOR PLUMBING PLAN - AREA C
P2.1	FIRST FLOOR WATER & GAS PLAN - AREA A
P2.1A	FIRST FLOOR WATER & GAS PLAN - AREA B
P2.1B	FIRST FLOOR WATER & GAS PLAN - AREA C
P2.1C	FIRST FLOOR WATER & GAS PLAN - AREA C
P3.1	FIRST FLOOR GAS & VACUUM PLAN - AREA A
P3.1A	FIRST FLOOR GAS & VACUUM PLAN - AREA B
P3.1B	FIRST FLOOR GAS & VACUUM PLAN - AREA C
P3.1C	FIRST FLOOR GAS & VACUUM PLAN - AREA C
P4.1	ROOF PLUMBING PLAN
P5.1	PLUMBING DETAILS
P5.2	PLUMBING DETAILS
P5.3	PLUMBING DETAILS
P6.1	PLUMBING SCHEDULES
P6.2	PLUMBING SCHEDULES
P7.1	PLUMBING WATER AND NATURAL GAS RISER
P7.2	PLUMBING DRAIN AND VENT RISER
P7.3	PLUMBING MED GAS RISER
ELECTRICAL	ELECTRICAL LEGEND & NOTES
E0.1	ELECTRICAL SITE PLAN
E1.1	FIRST FLOOR POWER PLAN - OVERALL
E1.2	ROOF ELECTRICAL PLAN
E2.1	FIRST FLOOR LIGHTING PLAN - OVERALL
E3.1	FIRST FLOOR SPECIAL SYSTEMS PLAN - OVERALL
E4.1	ENLARGED ELECTRICAL PLANS
E5.1	ELECTRICAL DETAILS
E6.1	ONE-LINE DIAGRAM
E7.1	ELECTRICAL SCHEDULES
E7.2	ELECTRICAL SCHEDULES
E7.3	ELECTRICAL SCHEDULES
E7.4	ELECTRICAL SCHEDULES
TECHNOLOGY	TECHNOLOGY LEGEND
T0.1	FIRST FLOOR TECHNOLOGY PLAN - OVERALL
T1.1	TECHNOLOGY DETAILS
T2.1	TECHNOLOGY DETAILS
T2.2	NURSE CALL DETAILS
T3.1	TECHNOLOGY SIGNAL FLOWS



A

C1.0

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DEMOLITION PLAN

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Date	01/13/23
Job Number	3-22030
Drawn By	TS
Checked By	EB

Revision		
Number	Date	Description
1	2/14/23	Addendum 1

022 ACI/BOLAND, Inc

<u>SITE</u>	
SITE AREA:	3.96 AC 172,695 SF
IMPERVIOUS AREA:	
EXISTING:	0 SF (00.0%)
PROPOSED:	95,000 SF (55.0%)
<u>BUILDING</u>	
BUILDING AREA (W/O FUTURE ADDITION):	19,750 SF (11.4% FAR)
<u>PARKING</u>	
PARKING PROVIDED:	95 STANDARD 5 HANDICAP (3 VAN)
PARKING REQUIRED:	
5 STALLS PER 1,000 BUILDING SF:	99
ADA STALLS: (BASED ON 100 PARKING STALLS)	4

CP-2 (PLANNED COMMUNITY COMMERCIAL)

Per visual inspection, no oil and gas wells were located on the site or within 185 feet. No records of wells were located on the Missouri Department of Natural Resources GIS.

HCA MIDWEST, LOT 1A

- 01 LEAD FREE, WATER-BORNE EMULSION BASED WHITE TRAFFIC PAINT
- 02 FOR PARKING LOT STRIPING.
- 03 WET CURB & GUTTER.
- 04 DRY CURB & GUTTER.
- 05 ZERO-HIGHT CURB.
- 06 TRANSITION CURB. REFER TO GRADING PLAN.
- 07 MONUMENT SIGN. REFER TO ARCHITECTURAL PLANS.
- 08 PROPOSED STAFF COURTYARD.
- 09 PROPOSED EXTENDED DRY DETENTION.
- 10 PROPOSED TRASH ENCLOSURE. REFER TO ARCHITECTURAL PLANS.
- 11 PROPOSED MECHANICAL ENCLOSURE. REFER TO ARCHITECTURAL PLANS.
- 12 SERVICE AREA.
- 13 SCREENING WALL. REFER TO ARCHITECTURAL PLANS.
- 14 EV CHARGING STATION. REFER TO ELECTRICAL PLANS.

14 INSTALL "DO NO ENTER" SIGN

SEE CONSTRUCTION DETAILS - SHEETS C7.0-7.1

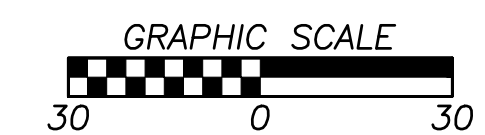
001 TYPE CG-1 CURB & GUTTER
002 CONCRETE DRIVEWAY ENTRANCE
003 LIGHT DUTY ASPHALT PAVEMENT
004 MEDIUM DUTY ASPHALT PAVEMENT
005 MEDIUM DUTY PCC PAVEMENT
006 CONCRETE DUMPSTER SECTION
007 CONCRETE SIDEWALK SECTION
008 SIDEWALK RAMP
009 (ADA) HANDICAP PARKING STRIPING
010 ADA SIGNAGE

011	ENERGY DISSIPATER (RIP RAP)
012	CONCRETE FLUME
013	LEVEL SPREADER

FIGURE 10 Standard Symbols for Street Elements

	PARKING STALL COUNT
	PROPOSED BUILDING
	LIGHT DUTY ASPHALT PAVEMENT
	MEDIUM DUTY ASPHALT PAVEMENT
	MEDIUM DUTY PCC PAVEMENT
	CONCRETE DUMPSTER SECTION
	CONCRETE SIDEWALK
	STANDARD CURB & GUTTER
	DRY CURB & GUTTER
	ZERO HEIGHT CURB
	TRANSITION CURB
	ACCESSIBLE ADA ROUTE

SCALE: 1" = 2000'
SECTION 10-T47N-R31W
JACKSON COUNTY, MISSOURI



Date 01/13/23
Job Number 3-22030
Drawn By TS
Checked By EB

Revision		
Number	Date	Description
1	2/14/23	Addendum 1

2022 ACL/BOLAND, Inc

OVERALL GRADING PLAN

1. Contractor shall obtain a copy of the Geotechnical Services Report for the project and be familiar with the existing conditions and recommendations contained in the report if such a report has been prepared.
2. Contractor is responsible for any over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.
3. Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.
4. Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Missouri. Contractor shall employ a qualified person to conduct regular inspections of the soil erosion control measures and document such inspections in the SWPPP document maintained by the Contractor.
5. All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
6. All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
7. All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
8. All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
9. Prior to placing any concrete or asphalt pavement the contractor shall perform a proof roll of the pavement sub-grade with a fully loaded tandem axle dump truck. The proof roll shall be conducted in the presence of the on-site geotechnical representative. Areas that display rutting or pumping that are unsatisfactory to the geotechnical representative shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or quicklime, as approved by the geotechnical engineer.
10. Finished grades shall not be steeper than 3:1.
11. All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.
12. A 2.0% maximum cross slope shall be maintained on all pedestrian sidewalks and paths.

— EXISTING STREAM

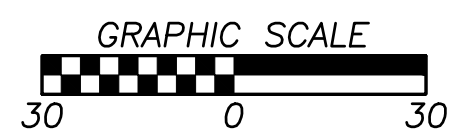
➤ No grading work or construction activity shall occur within the 60' stream buffer setback.

Map Number: 29095C0439G
Panel No: 439 of 625
Map Revised Date: January 20, 2017

NOTE: This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

GRADING LEGEND

	STANDARD CURB & GUTTER		980	FINISH GRADE MAJOR CONTOURS
	DRY CURB & GUTTER		982	FINISH GRADE MINOR CONTOURS
	ZERO HEIGHT CURB		980	EXISTING GRADE MAJOR CONTOURS
	TRANSITION CURB		982	EXISTING GRADE MINOR CONTOURS
			P	PROPERTY LINE





Eric Byrd - Engineer
Missouri: #FE-2018013633

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1950 SE Shenandoah Drive
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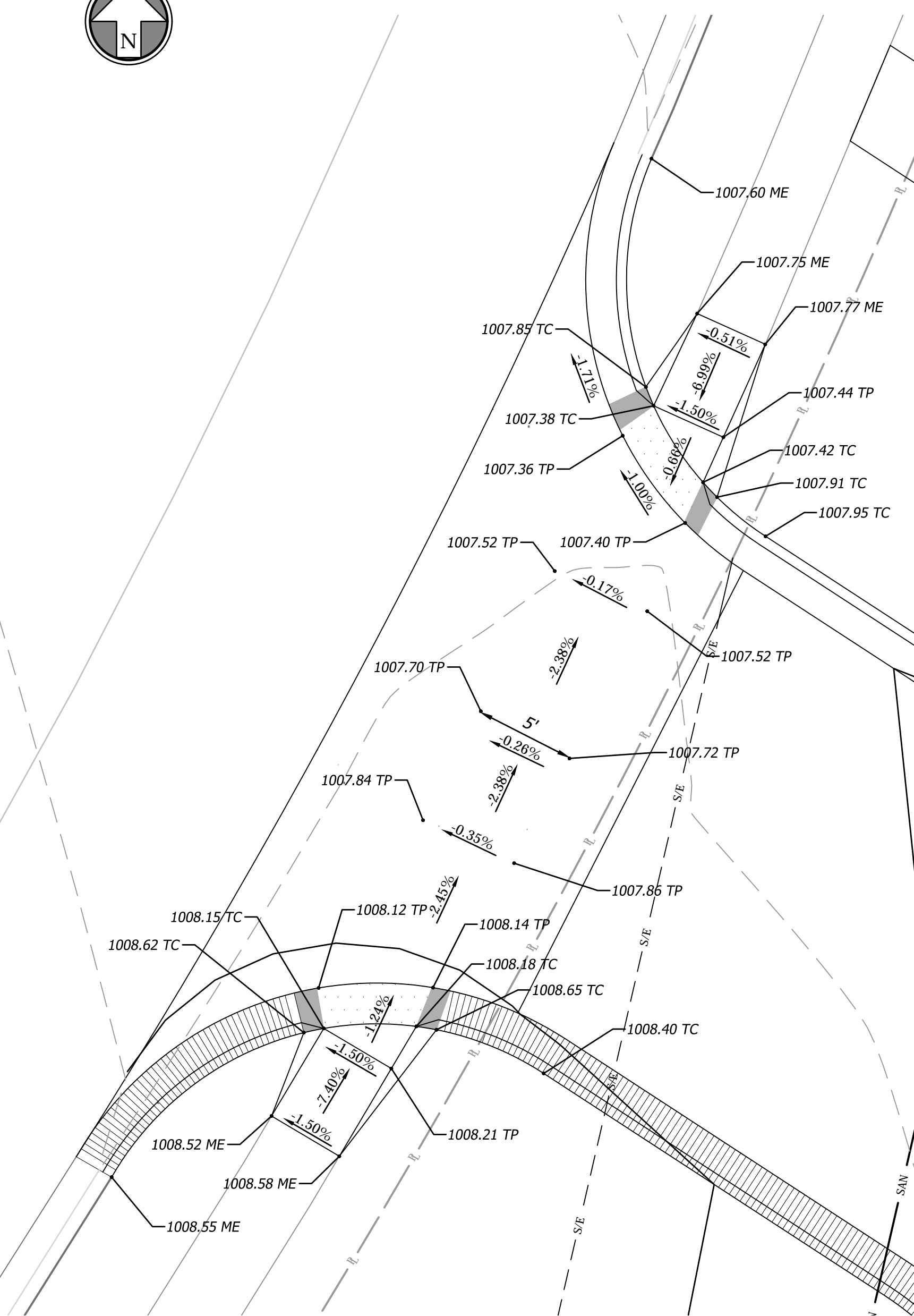
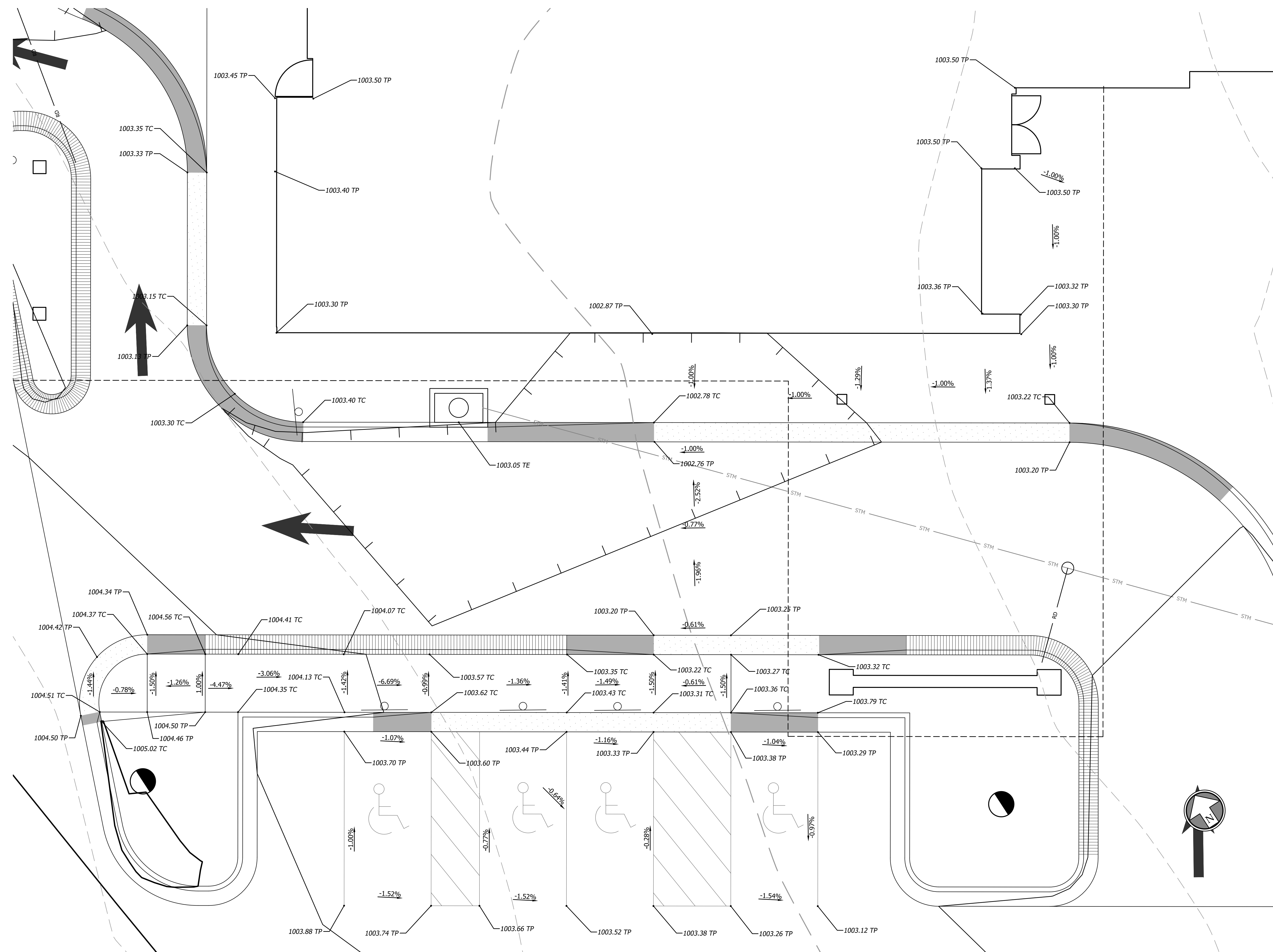
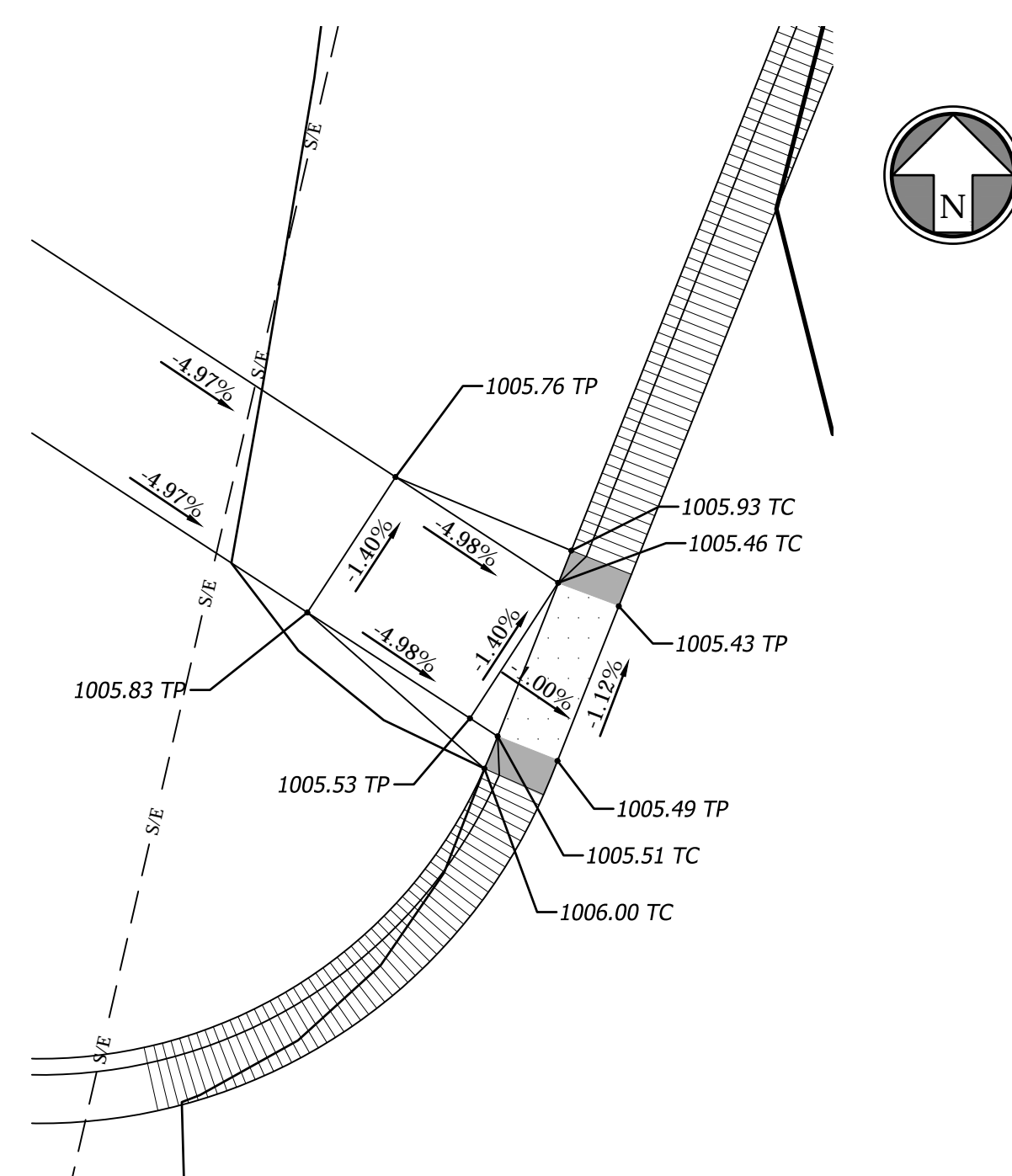
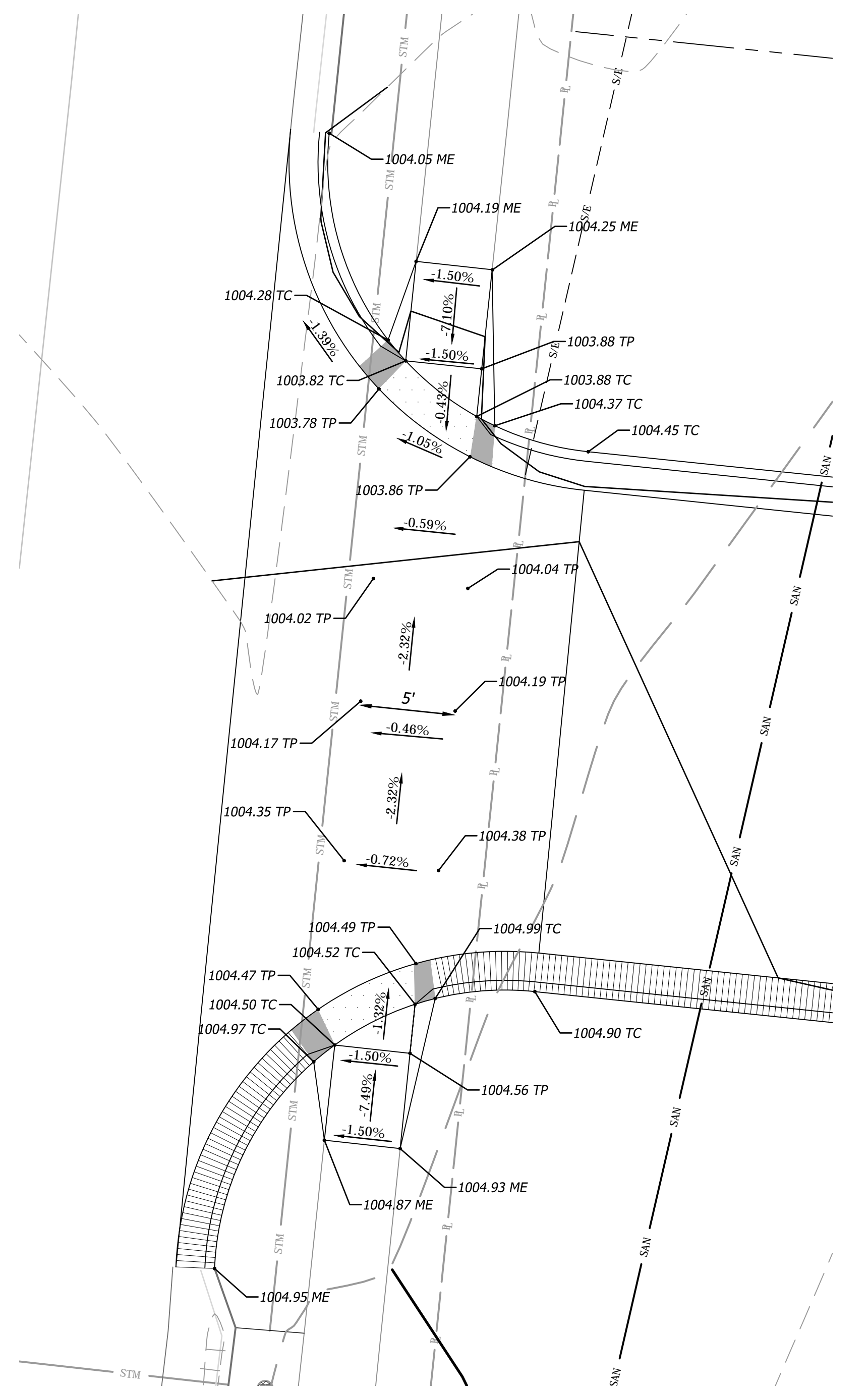
Revision		
Number	Date	Description
1	2/14/23	Addendum 1

C3.1
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TOP OF CURB PLAN

DETAILED GRADING LEGEND

0000.00 FG	FINISHED GRADE ELEVATION
0000.00 TC	TOP OF CURB ELEVATION
0000.00 TP	TOP OF PAVEMENT ELEVATION
0000.00 ME	MATCH EXISTING GRADE
0000.00 TE	TOP ELEVATION OF STRUCTURE
0000.00 XX	HIGH POINT AT SPECIFIC CALLOUT
0000.00 XX	LOW POINT AT SPECIFIC CALLOUT
1.00%	SLOPE INDICATOR





DETAILED GRADING LEGEND

0000.00 FG	FINISHED GRADE ELEVATION
0000.00 TC	TOP OF CURB ELEVATION
0000.00 TP	TOP OF PAVEMENT ELEVATION
0000.00 ME	MATCH EXISTING GRADE
0000.00 TE	TOP ELEVATION OF STRUCTURE
0000.00 XX HIGH POINT	HIGH POINT AT SPECIFIC CALLOUT
0000.00 XX LOW POINT	LOW POINT AT SPECIFIC CALLOUT
1.00%	SLOPE INDICATOR



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Missouri: #PE-2018013633

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Surgery Center of Lee's Summit
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ADA GRADING DETAIL PLAN



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PRE-CONSTRUCTION
EROSION CONTROL PLAN

EROSION AND SEDIMENT CONTROL GENERAL NOTES

- Prior to Land Disturbance activities, the contractor shall:
 - Delineate the outer limits of any natural stream corridor designated with construction fencing.
 - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
 - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City Inspector and in conformance with the erosion and sediment control plan.
- The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to:
 - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days.
 - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
 - During active construction phases - at least once per week
 - During periods of inactivity - at least once per 14 days
 - After each rainfall event of 1/2 inch or more - within 24 hours of the rain event
 - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
 - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.
- Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area.
- The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an onsite drainage channel.
- The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.
- Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.
- Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.
- Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.
- Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and landscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Lee's Summit with reports and documentation.

EROSION CONTROL LEGEND

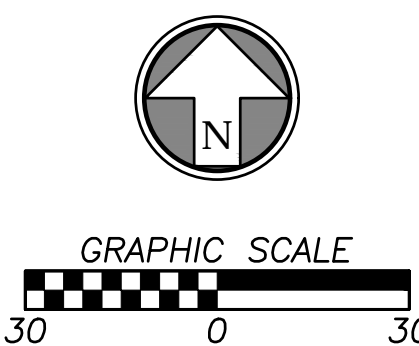
- DISTURBED AREA (3.94 AC)
- SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- CONCRETE CLEANOUT

DETAILS

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING
- 600 TEMPORARY CONSTRUCTION ENTRANCE
- 601 FILTER FABRIC SILT FENCE
- 603 STORM INLET PROTECTION
- 604 CONCRETE WASH-OUT

EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Construction Entrance	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B - Mass Grading	05	Detention Basin Installation	N/A	To be installed prior to disturbing entire site.
	C - After Utility Storm Sewer Construction	06	Storm Inlet Protection	E	Place as shown on plan
Phase III (POST-CON)	D - After Construction of Building and Parking Lot	07	Steep Slope Protection	N/A	Place as shown on plan
	E - Final Grading, Paving & Landscaping	08	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.





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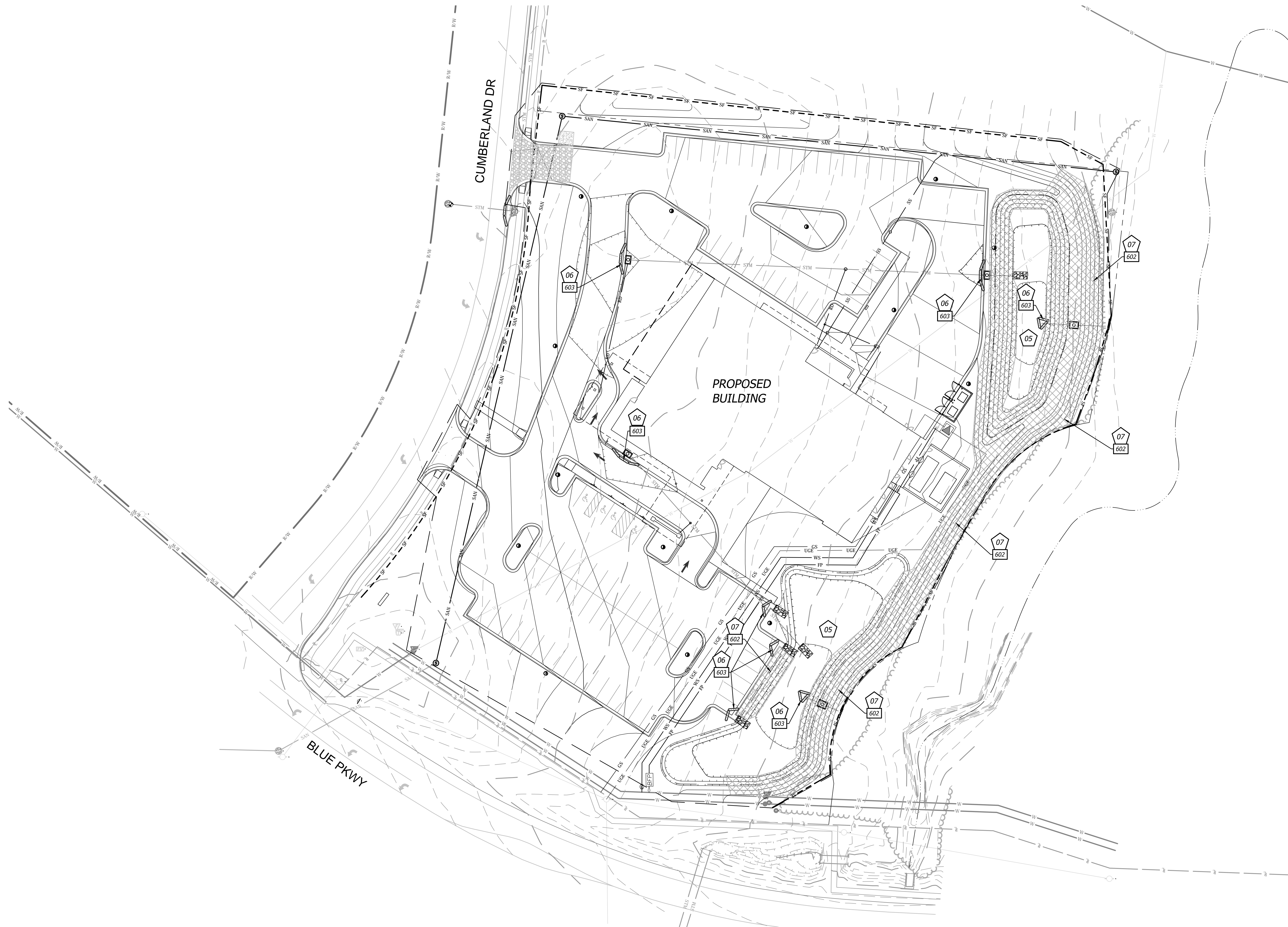
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1950 SE Shenandoah Drive
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Checked By EB

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MID-CONSTRUCTION
EROSION CONTROL PLAN



EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Construction Entrance	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B - Mass Grading	05	Detention Basin Installation	N/A	To be installed prior to disturbing entire site.
	C - After Utility Storm Sewer Construction	06	Storm Inlet Protection	E	Place as shown on plan
Phase III (POST-CON)	D - After Construction of Building and Parking Lot	07	Steep Slope Protection	N/A	Place as shown on plan
	E - Final Grading, Paving & Landscaping	08	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

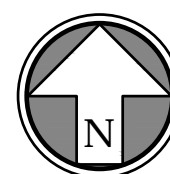
EROSION CONTROL LEGEND

- DISTURBED AREA (3.94 AC)
- SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STEEP SLOPE PROTECTION

DETAILS

SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

- 600 TEMPORARY CONSTRUCTION ENTRANCE
- 601 FILTER FABRIC SILT FENCE
- 602 SLOPE INSTALLATION EROSION BLANKETS/TURF MATS
- 603 STORM INLET PROTECTION
- 604 CONCRETE WASH-OUT



GRAPHIC SCALE
30 0 30



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POST-CONSTRUCTION
EROSION CONTROL PLAN

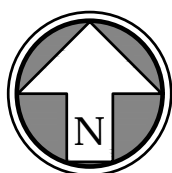


EROSION CONTROL LEGEND

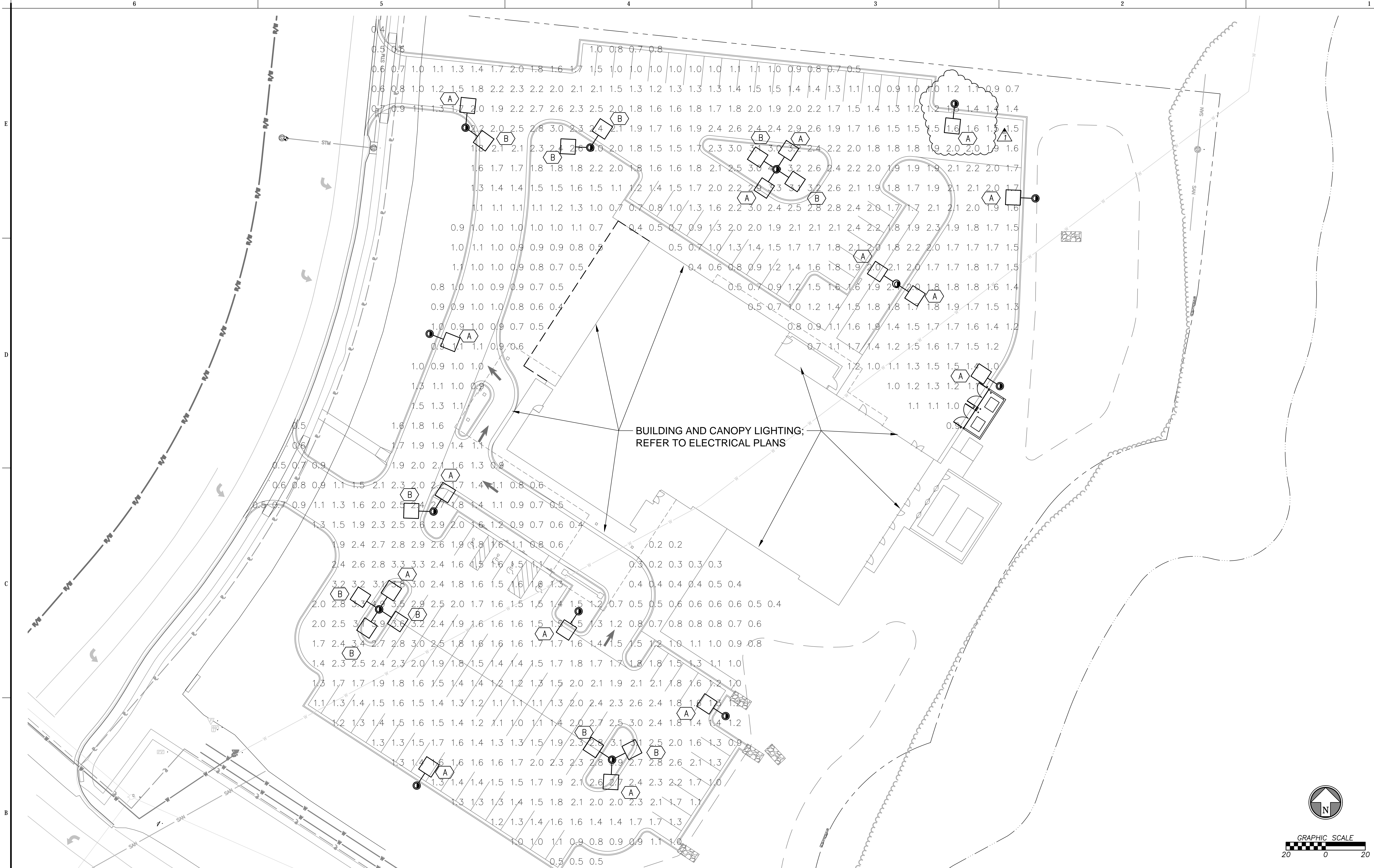
- DISTURBED AREA (3.94 AC)
- FINAL SEEDING (SOD &/OR LANDSCAPING)
- IMPERVIOUS AREA (2.10 AC)

EROSION & SEDIMENT CONTROL STAGING CHART

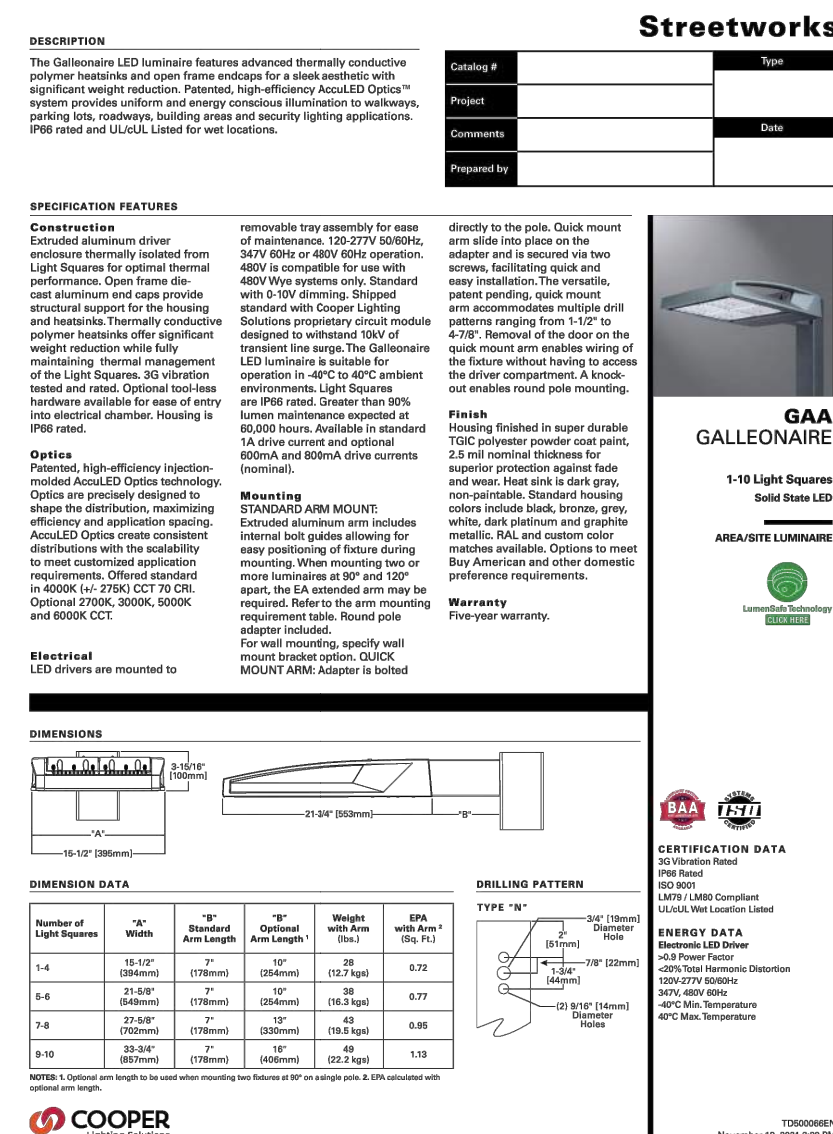
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Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
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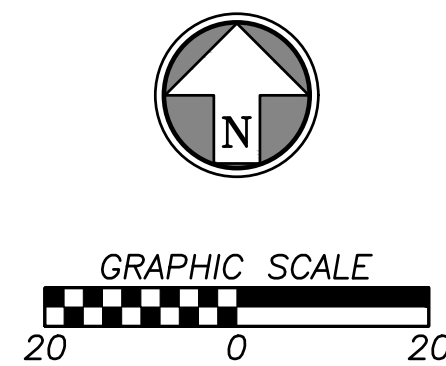
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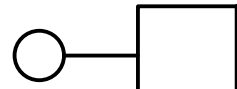


<i>GENERAL PHOTOMETRIC SCHEDULE</i>	
AVERAGE FOOT-CANDLES	1.58
MAXIMUM FOOT-CANDLES	4.9
MINIMUM FOOT-CANDLES	0.2
MINIMUM TO MAXIMUM FC RATIO	0.03
MAXIMUM TO MINIMUM FC RATIO	29.02
AVERAGE TO MINIMUM FC RATIO	9.38



- BUILDING AND CANOPY LIGHTING;
REFER TO ELECTRICAL PLANS



LUMINAIRE SCHEDULE						
CALLOUT	SYMBOL	QUANTITY	DESCRIPTION	MOUNTING	MODEL	VOLTS
A		15	GALLEONAIRE AREA AND ROADWAY LUMINAIRE(1) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS	POLE	COOPER LIGHTING SOLUTIONS – McGRAW-EDISON (FORMERLY EATON), GLNA-AF-01-LED-E1-T3	277V 1P 2W
B		11	GALLEONAIRE AREA AND ROADWAY LUMINAIRE(1) 70 CRI, 4000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS	POLE	COOPER LIGHTING SOLUTIONS – McGRAW-EDISON (FORMERLY EATON), GLNA-AF-01-LED-E1-T4FT	277V 1P 2W

POLE MOUNTING HEIGHT: 28'



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PHOTOMETRIC PLAN

Feb 14, 2023 - 8:42am Plotted By: Eric Byrd V:\034660-hca hca oss\101-1005\Eng\Sheet\034660-01\034660-01.dwg Layout: Proposed Drain Map



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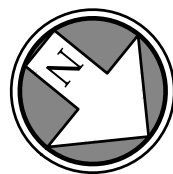
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STORM DRAINAGE MAP & CALCULATIONS

**STORM NOTE**

ALL NORTHINGS, EASTINGS, AND ALIGNMENT STATIONING
FOR STORM STRUCTURES ARE TO CENTER OF STRUCTURE
UNLESS STATED OTHERWISE.



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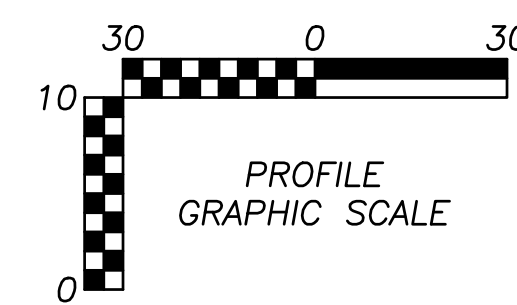
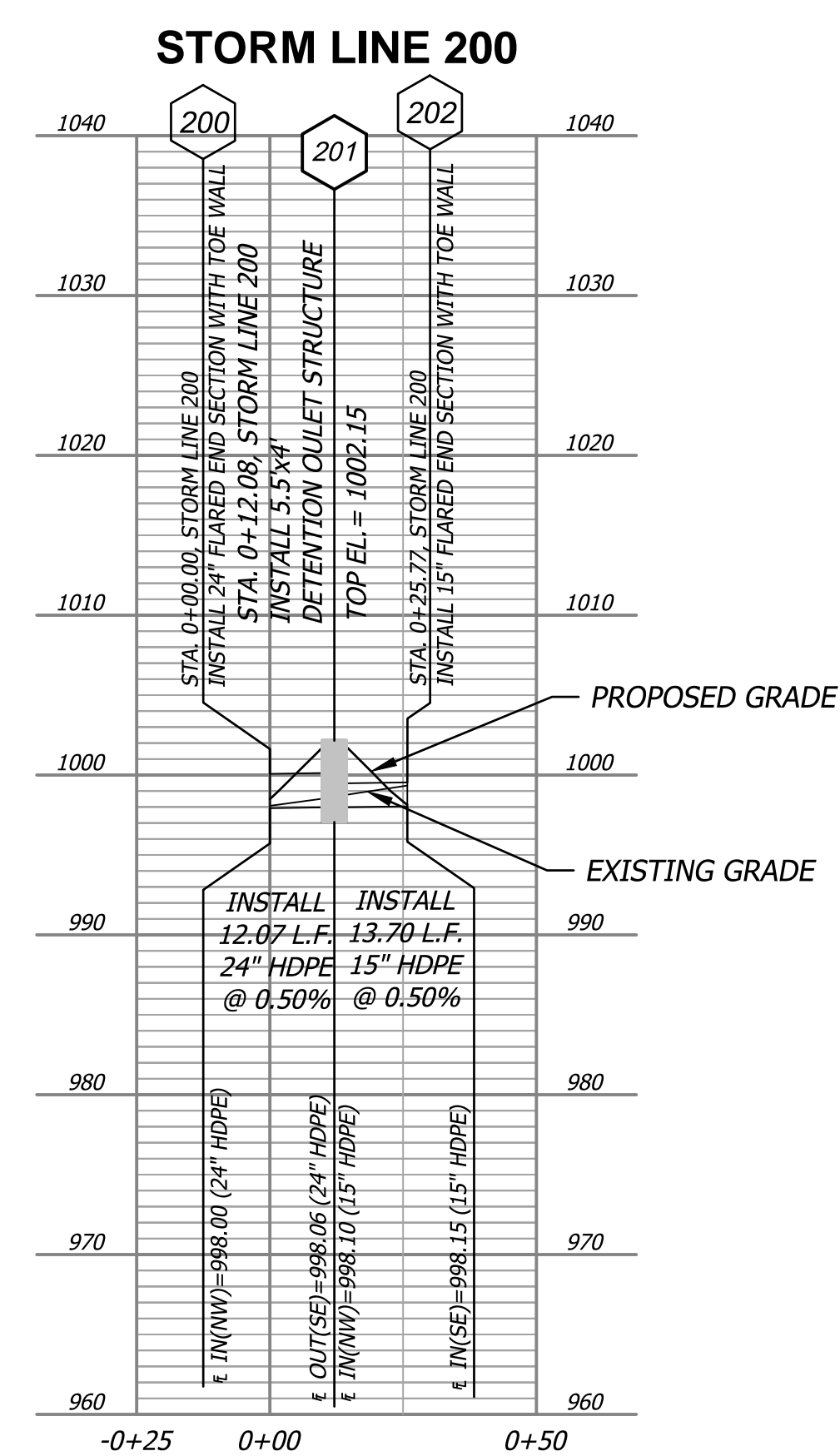
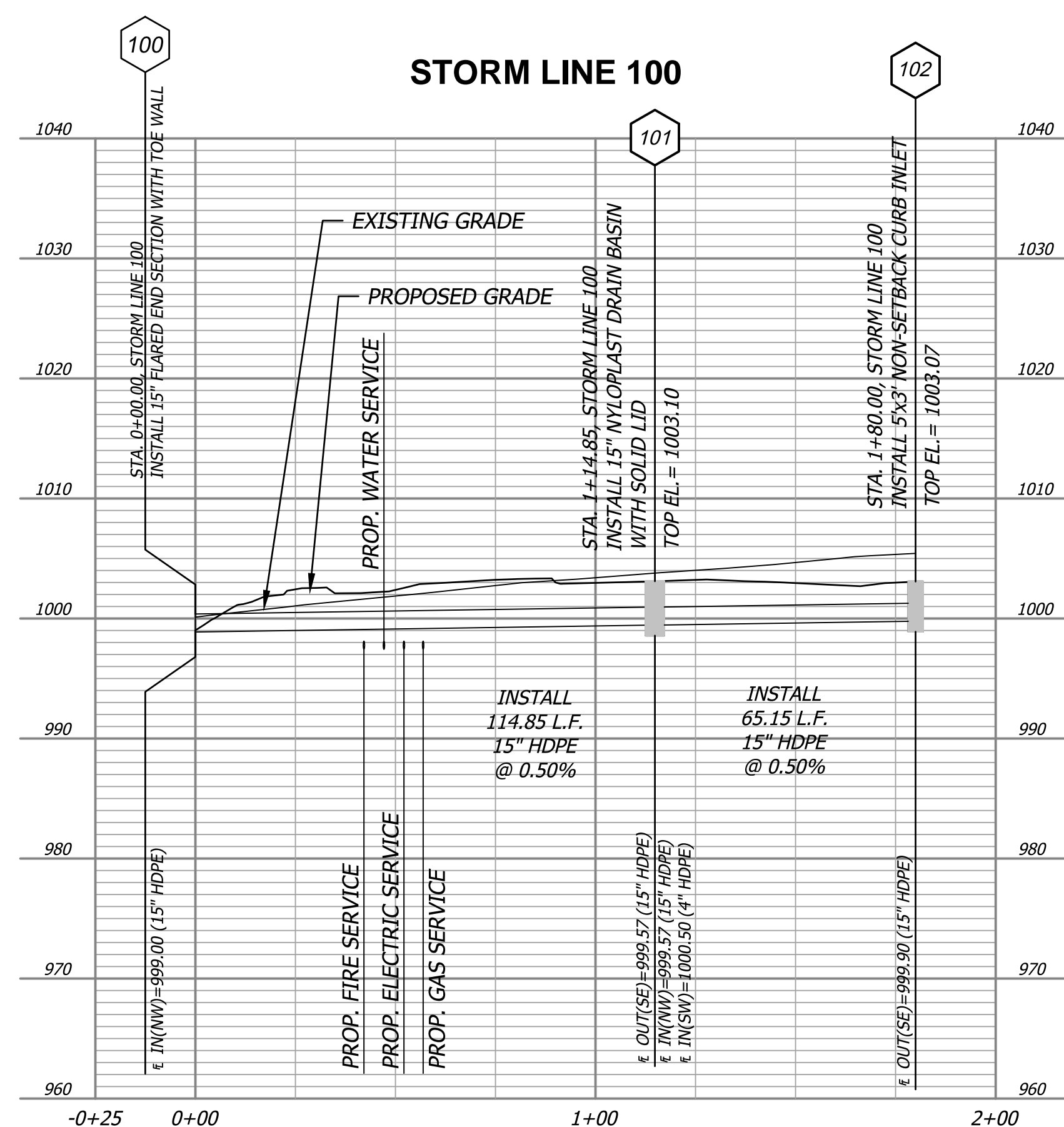
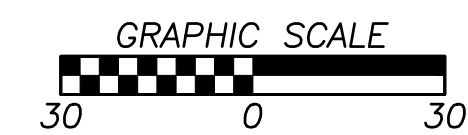
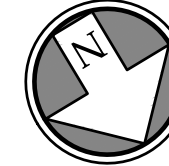
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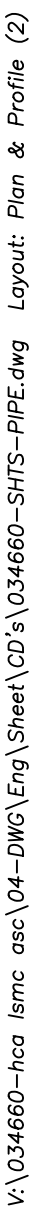
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STORM PLAN & PROFILE



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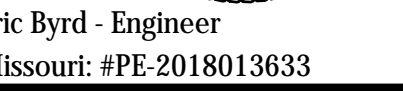
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STORM PLAN & PROFILE 2



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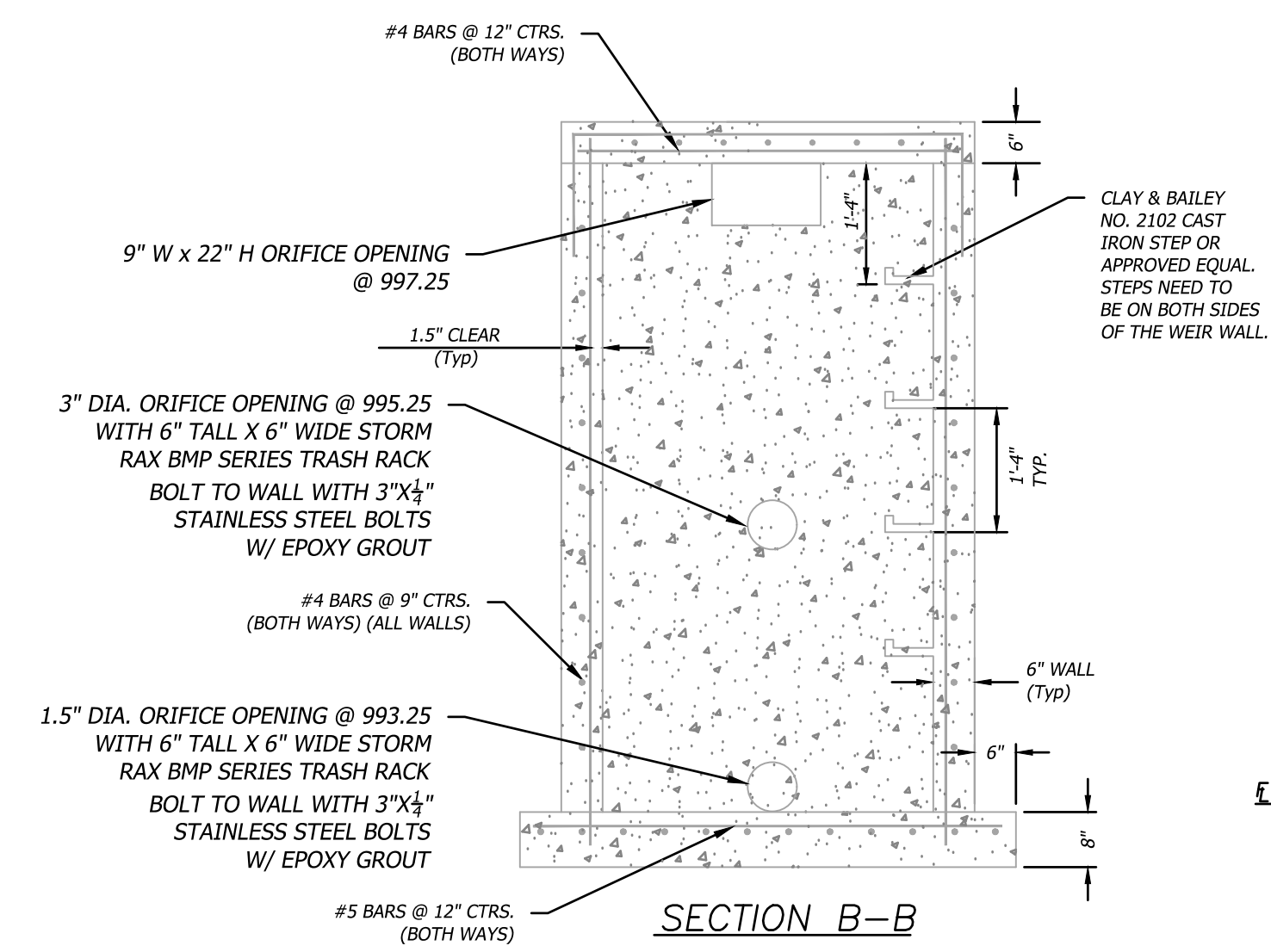
STRUCTURAL CONSULTANT

EP CONSULTANT

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C6.3
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NORTH DETENTION BASIN PLAN



1. ALL STORM SEWER STRUCTURES SHALL BE PRECAST.
2. PRECAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. RING & COVER TO BE EAST JORDAN IRON WORKS #00150230 (HEAVY DUTY) OR APPROVED EQUAL.
5. PIPE CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
6. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE CITY TECHNICAL SPECIFICATIONS.

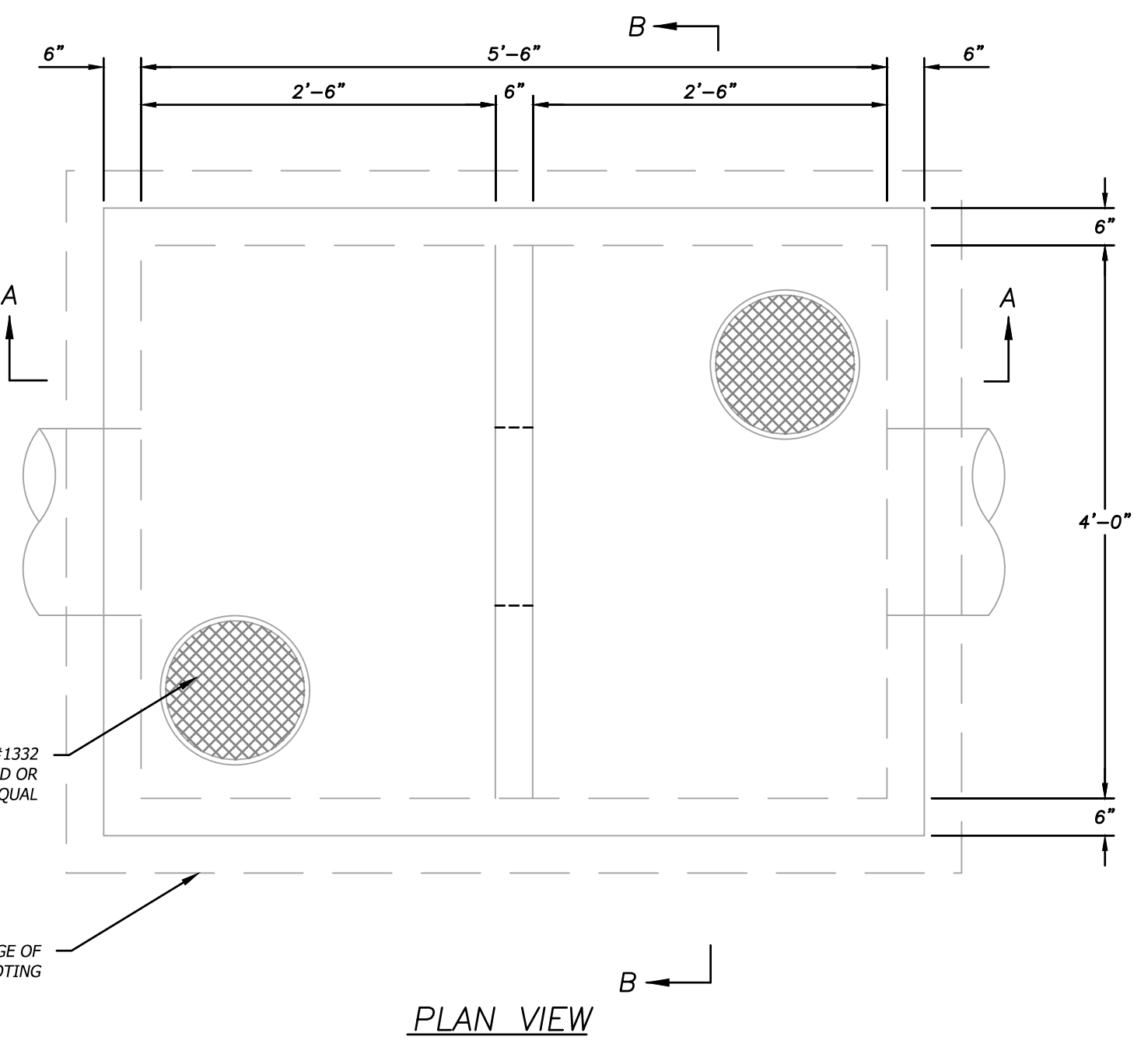
CONCRETE

1. CONCRETE USED IN THIS WORK SHALL BE KCMKMBK FOR ALL PRECAST STRUCTURAL COMPONENTS, AS APPROVED BY THE KANSAS CITY METROPOLITAN MATERIALS BOARD, AND SHALL MEET THE REQUIREMENTS OF THE CITY TECHNICAL SPECIFICATIONS.
 2. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
 3. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED KCMKMBK CONCRETE INVERT TO PROVIDE SMOOTH FLOW.
 4. BEVEL ALL EXPOSED EDGES WITH $\frac{3}{4}$ " TRIANGULAR MOLDING.
- REINFORCING STEEL
5. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
 6. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8$ " SHALL BE PERMITTED.
 7. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS AT 3'-0" MAXIMUM SPACING.
 9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

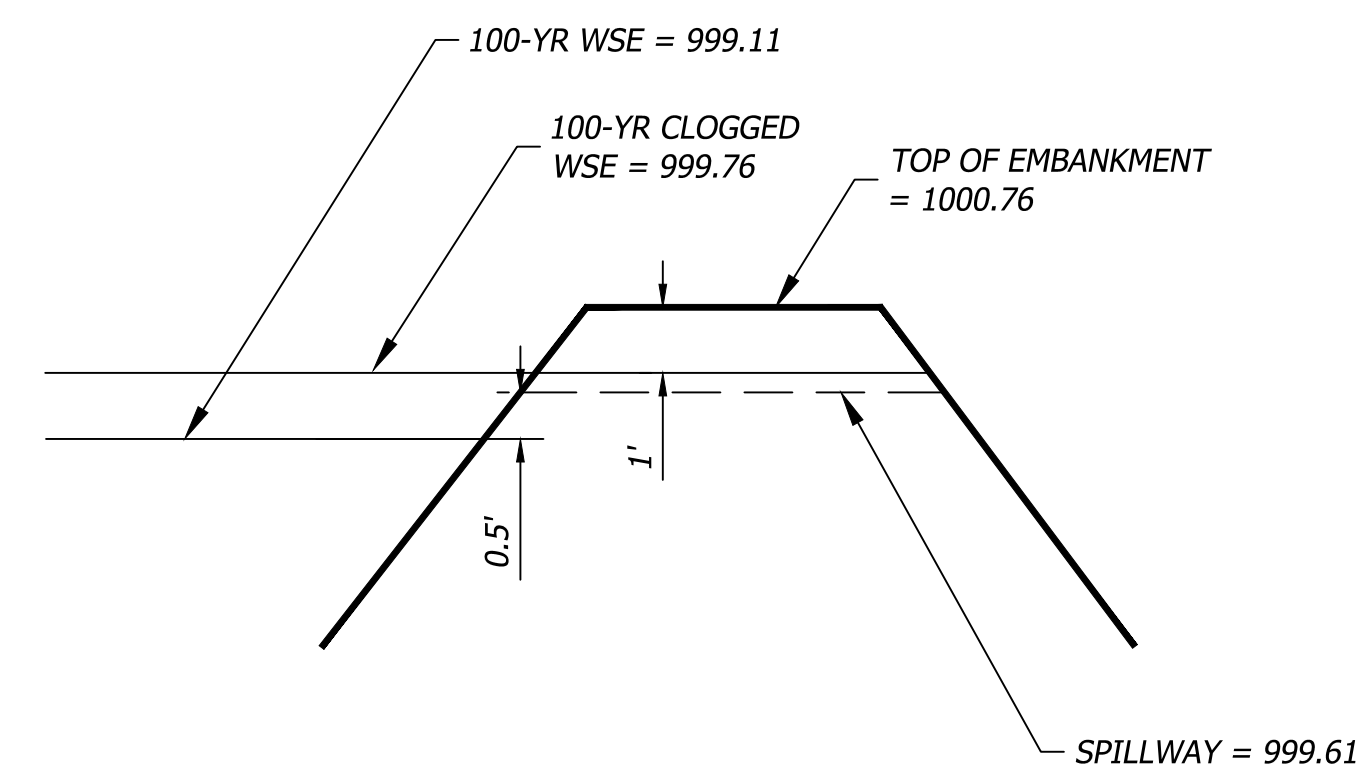
REINFORCING STEEL

5. REINFORCE

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7. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY CURED CONCRETE WILL NOT BE ACCEPTABLE.



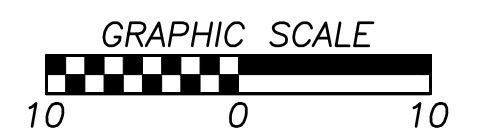
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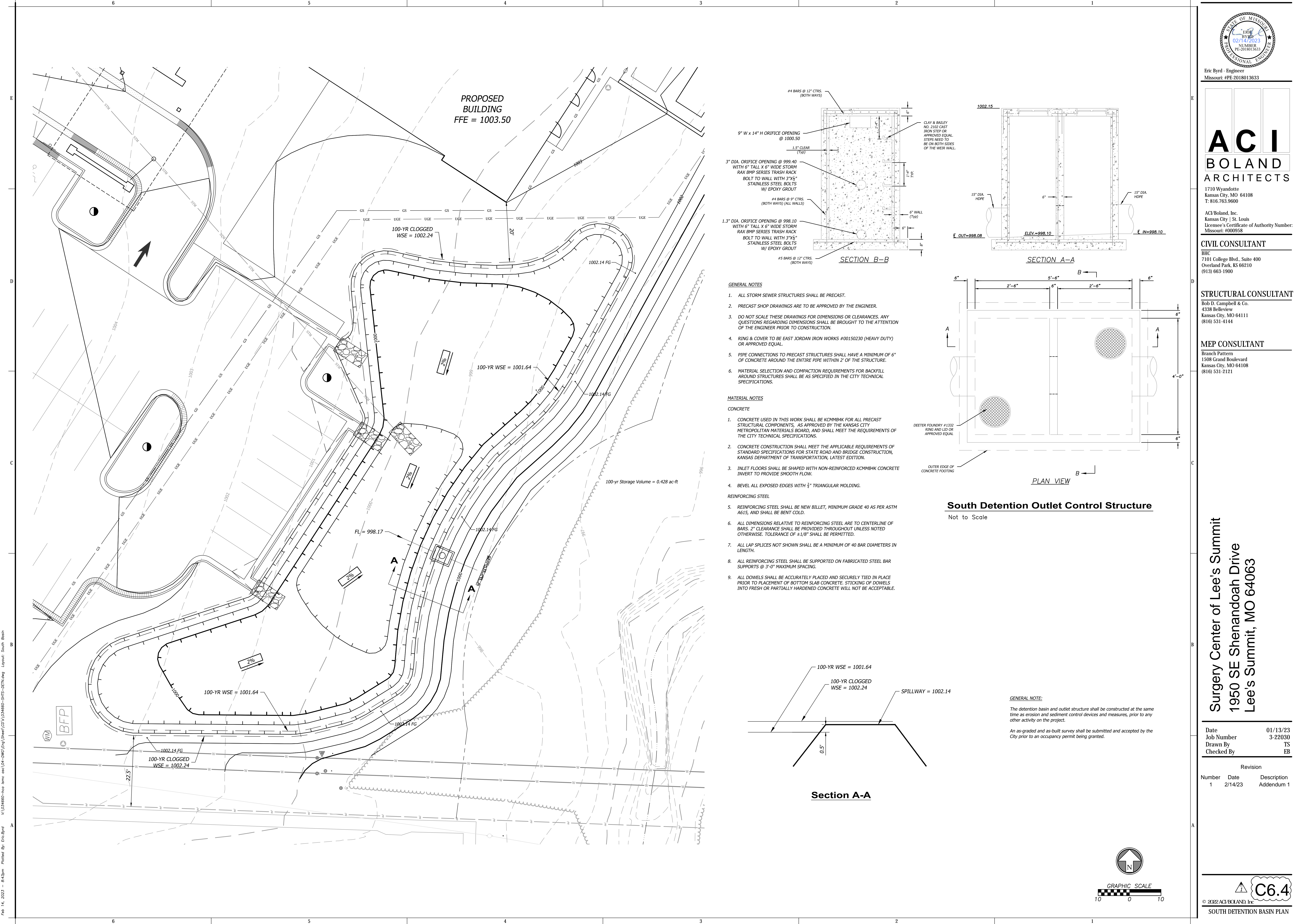
GENERAL NOTE:

The detention basin and outlet structure shall be constructed at the same time as erosion and sediment control devices and measures, prior to any other activity on the project.

An as-graded and as-built survey shall be submitted and accepted by the City prior to an occupancy permit being granted.



File 14, 2023 - 8:43pm Printed By: Eric Byrd V:\034660-hoa-hmc-ans\14a-dms\Eng\Sheet\03\034660-SHTS-DET\dwg Layout: South Basin



GENERAL NOTES

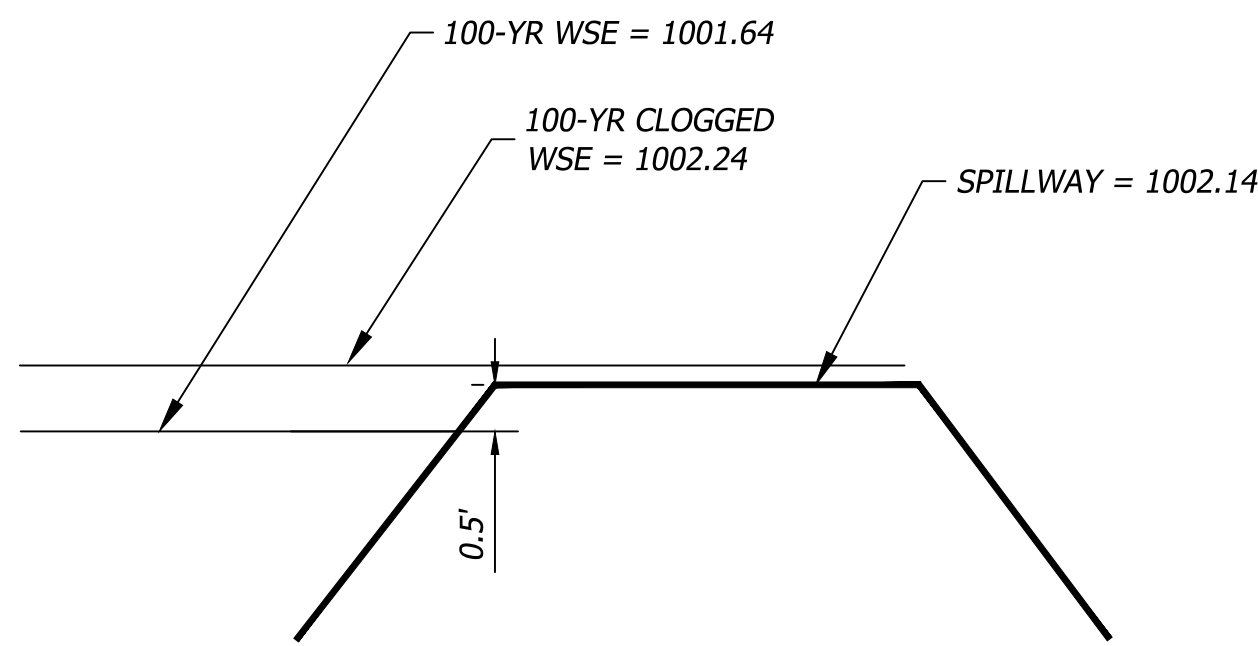
1. ALL STORM SEWER STRUCTURES SHALL BE PRECAST.
2. PRECAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. RING & COVER TO BE EAST JORDAN IRON WORKS #00150230 (HEAVY DUTY) OR APPROVED EQUAL.
5. PIPE CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
6. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE CITY TECHNICAL SPECIFICATIONS.

MATERIAL NOTES

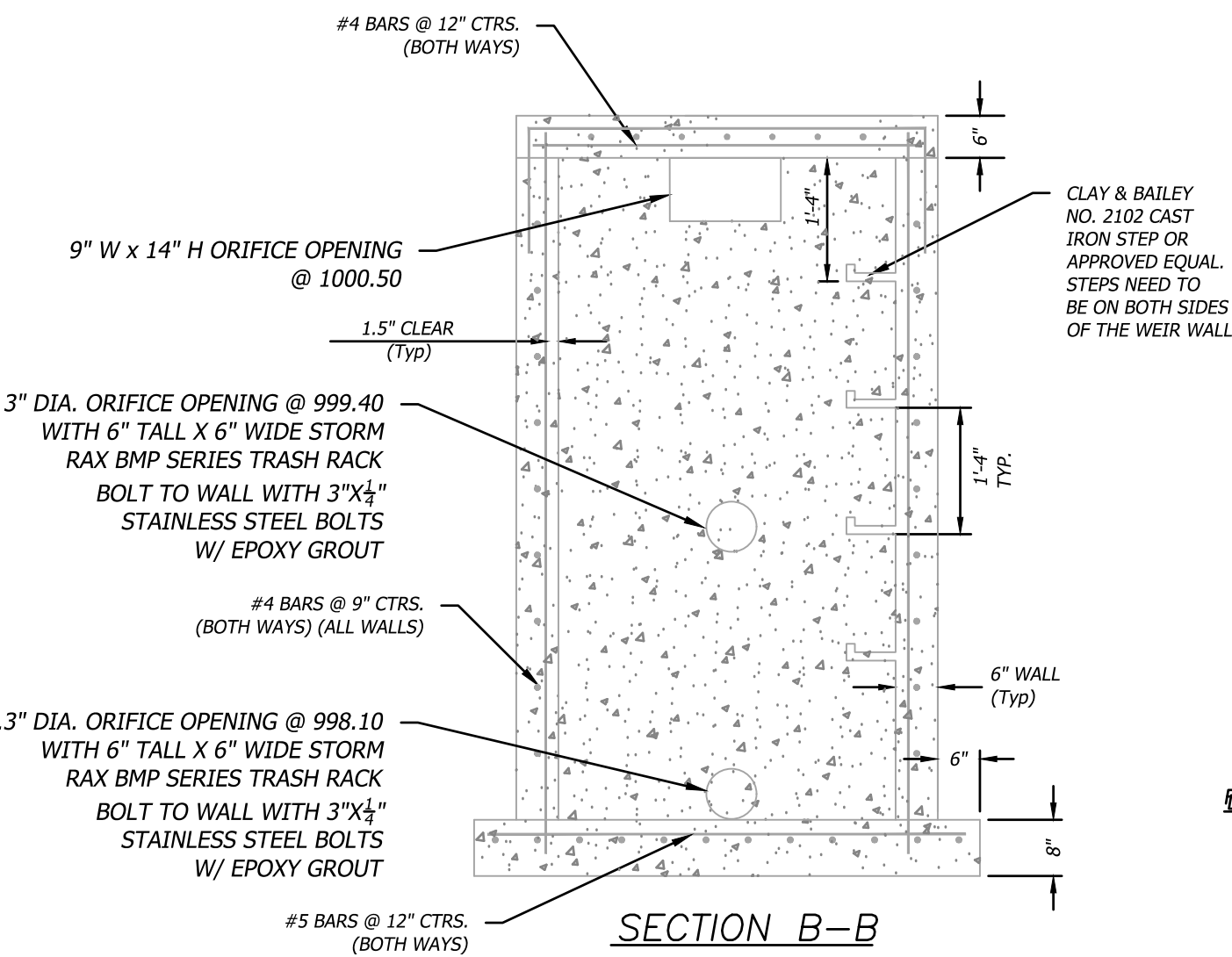
CONCRETE

1. CONCRETE USED IN THIS WORK SHALL BE KCMHB4K FOR ALL PRECAST STRUCTURAL COMPONENTS, AS APPROVED BY THE KANSAS CITY METROPOLITAN MATERIALS BOARD, AND SHALL MEET THE REQUIREMENTS OF THE CITY TECHNICAL SPECIFICATIONS.
2. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR STATE ROAD AND BRIDGE CONSTRUCTION, KANSAS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
3. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED KCMHB4K CONCRETE INVERT TO PROVIDE SMOOTH FLOW.
4. BEVEL ALL EXPOSED EDGES WITH $\frac{1}{4}$ " TRIANGULAR MOLDING.
5. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
6. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8$ " SHALL BE PERMITTED.
7. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

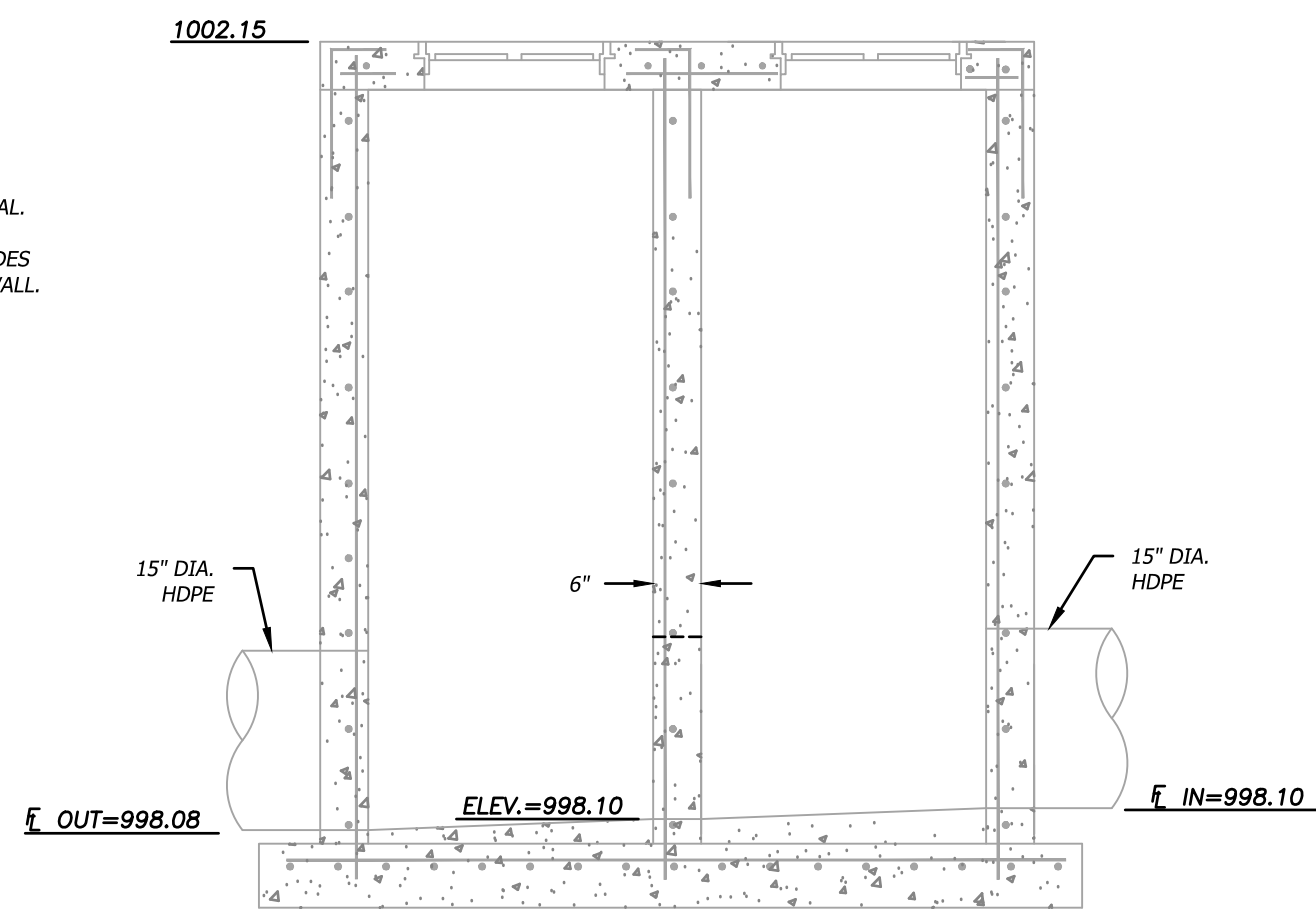
REINFORCING STEEL



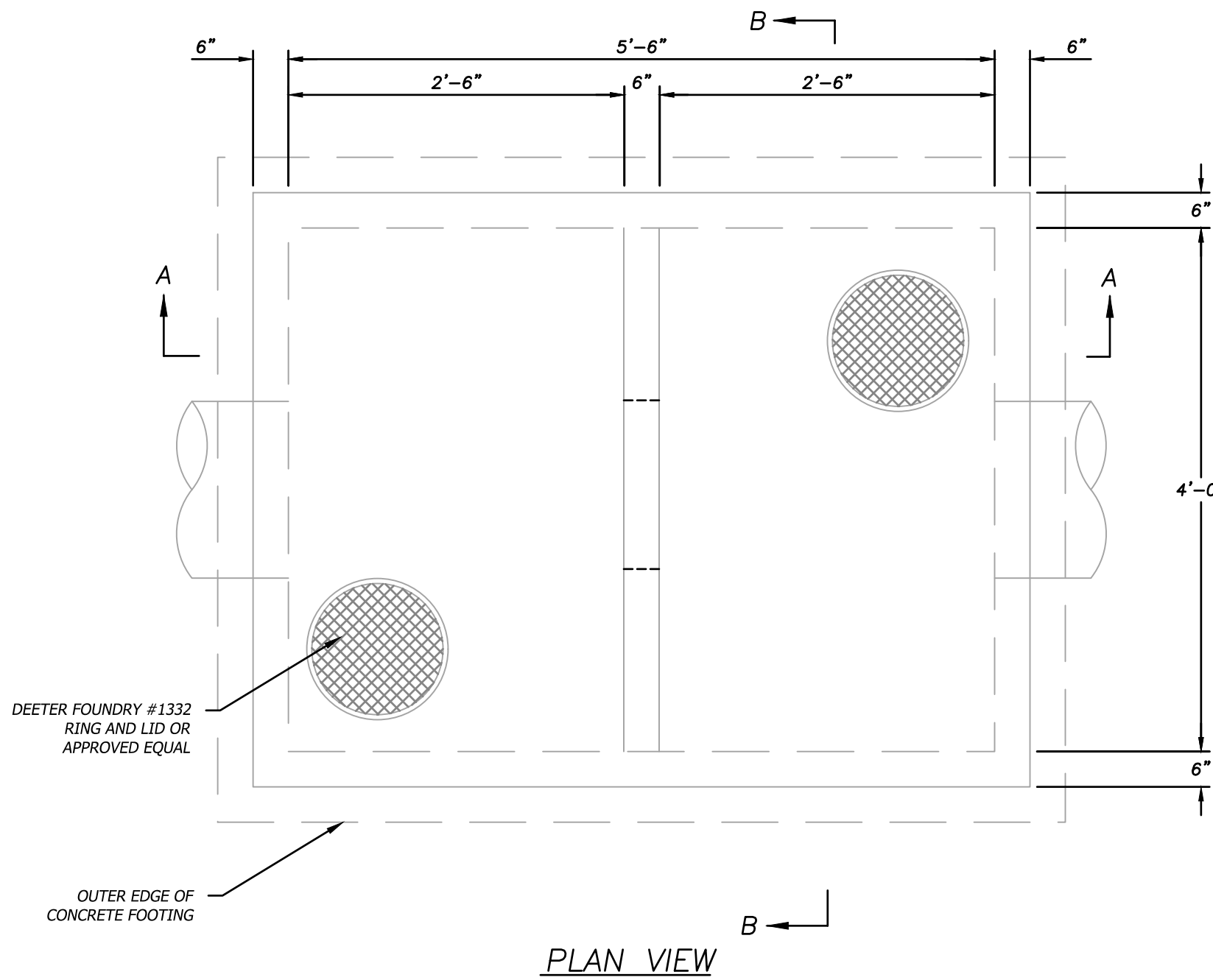
Section A-A



SECTION B-B



SECTION A-A



PLAN VIEW

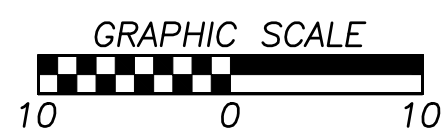
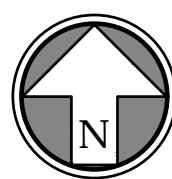
South Detention Outlet Control Structure

Not to Scale

GENERAL NOTE:

The detention basin and outlet structure shall be constructed at the same time as erosion and sediment control devices and measures, prior to any other activity on the project.

An as-graded and as-built survey shall be submitted and accepted by the City prior to an occupancy permit being granted.



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Missouri: #FE-2018013633

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Missouri: #000958

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Surgery Center of Lee's Summit
1950 SE Shenandoah Drive
Lee's Summit, MO 64063

Date	01/13/23
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SOUTH DETENTION BASIN PLAN



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Missouri: #PE 2018013633

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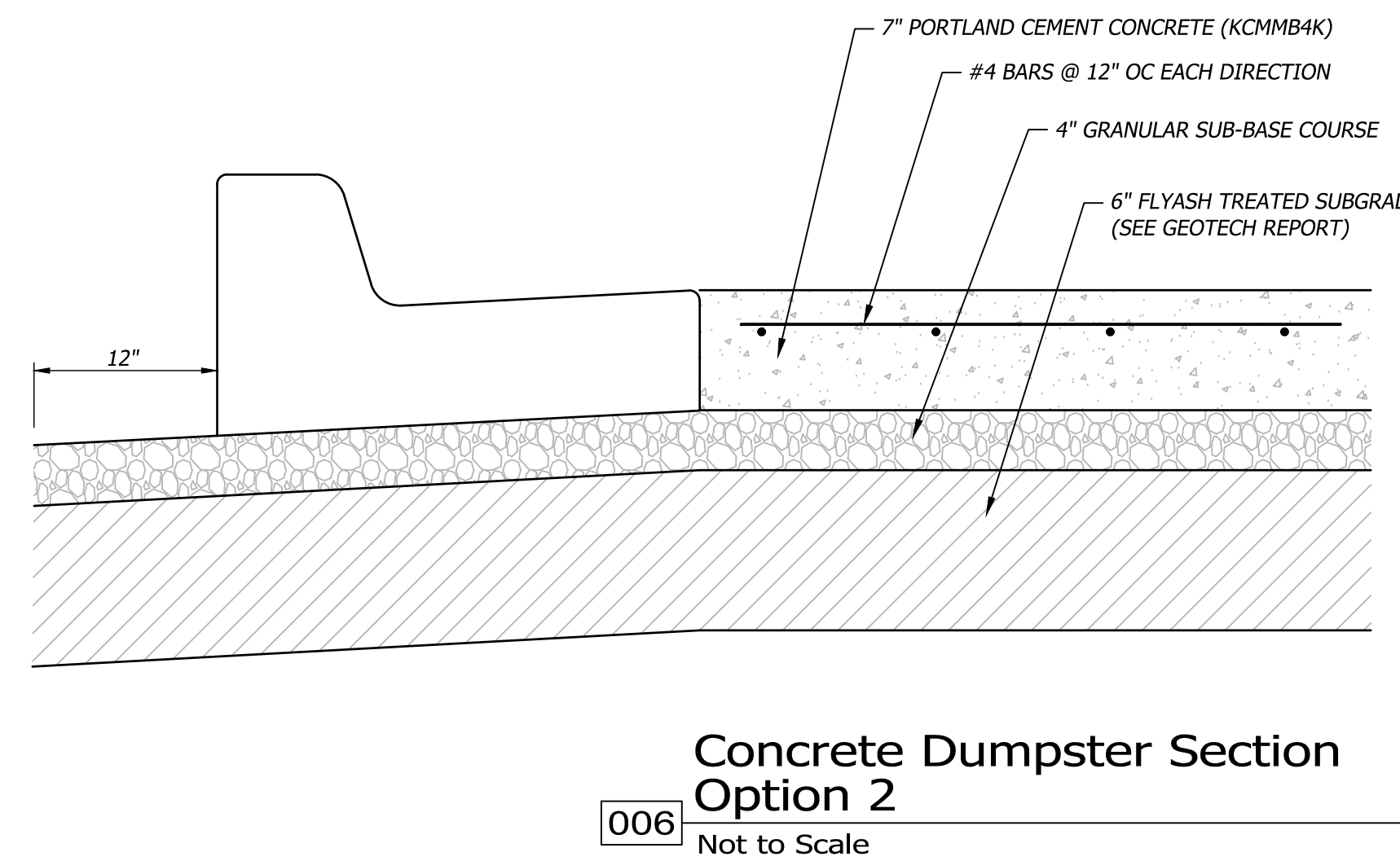
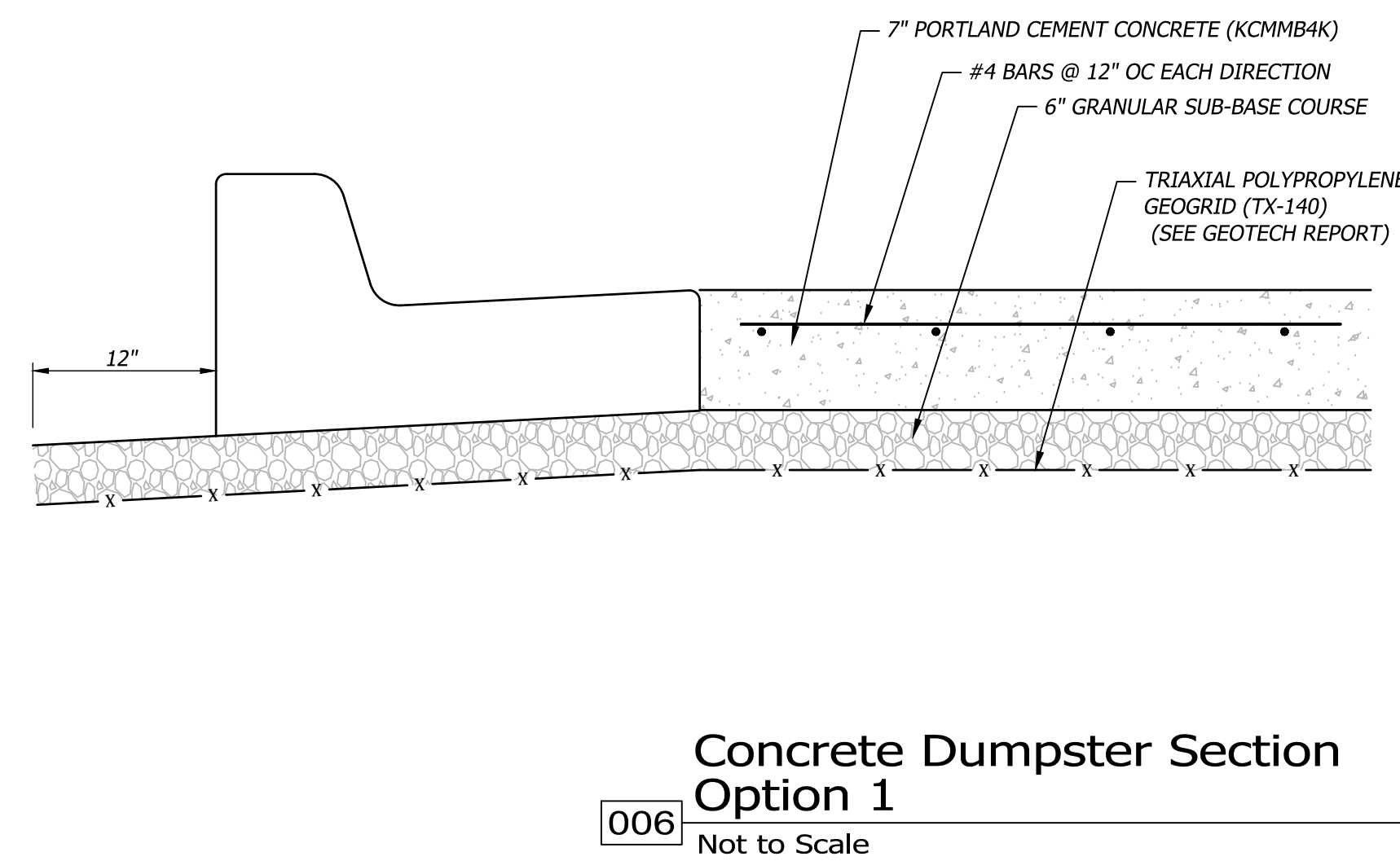
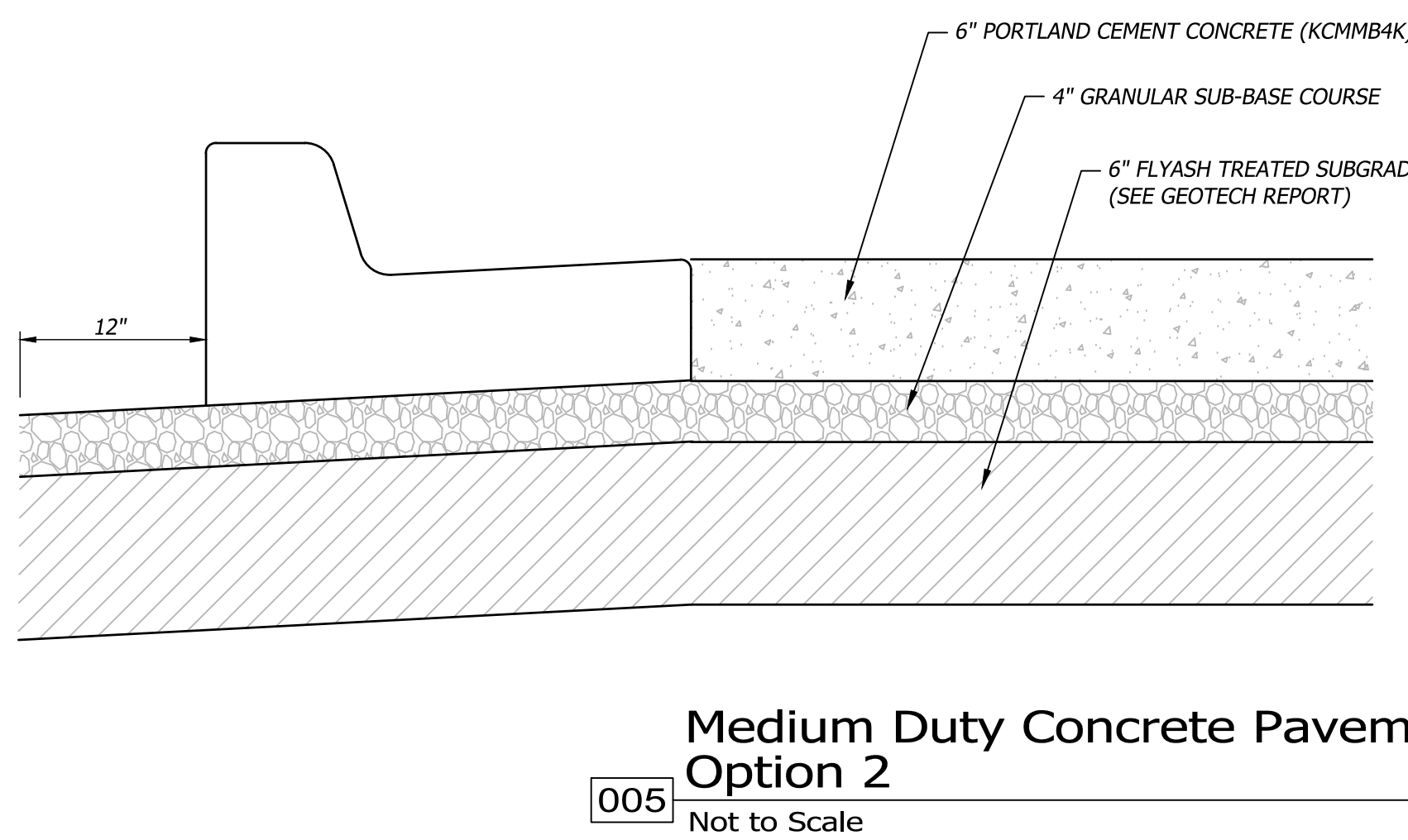
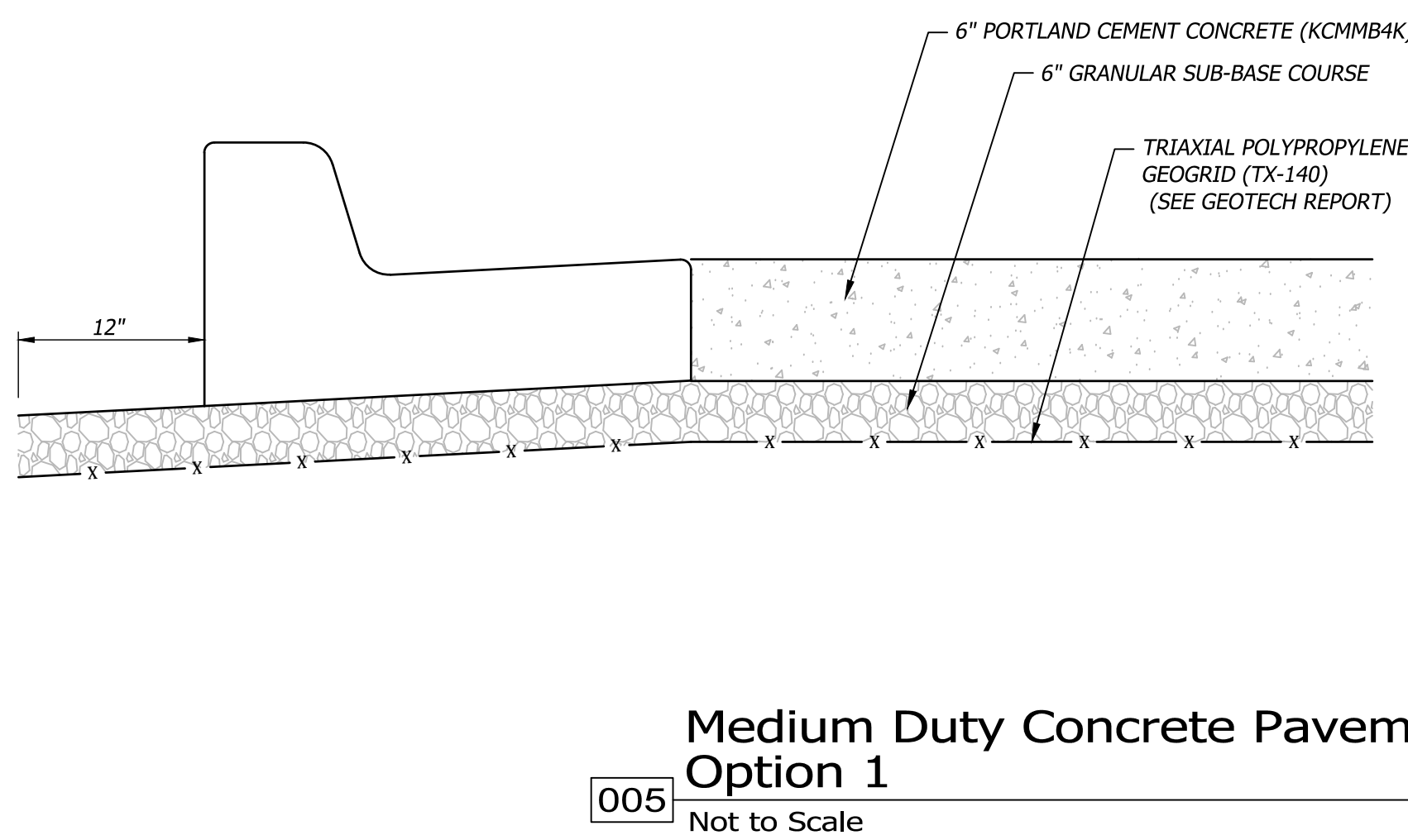
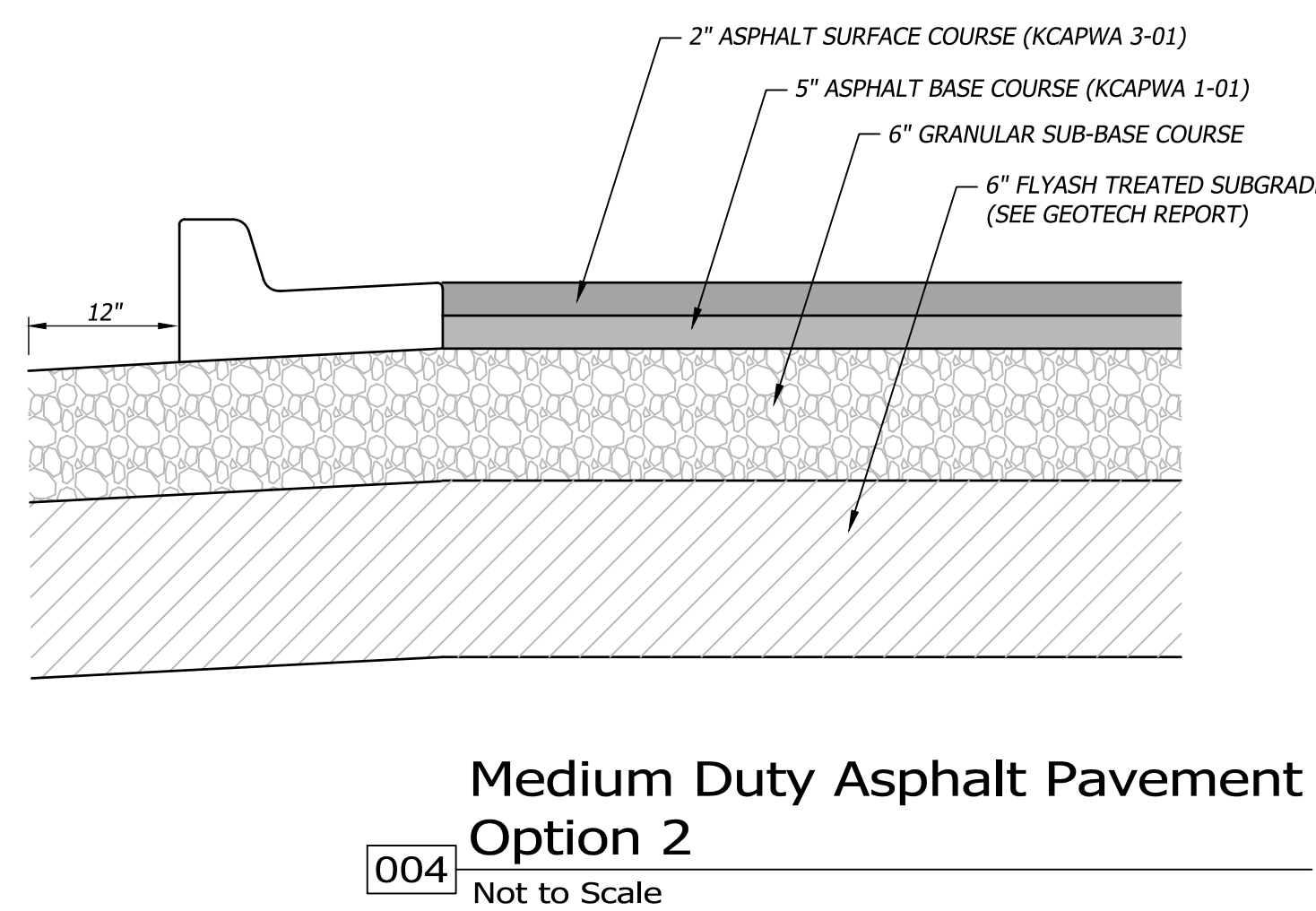
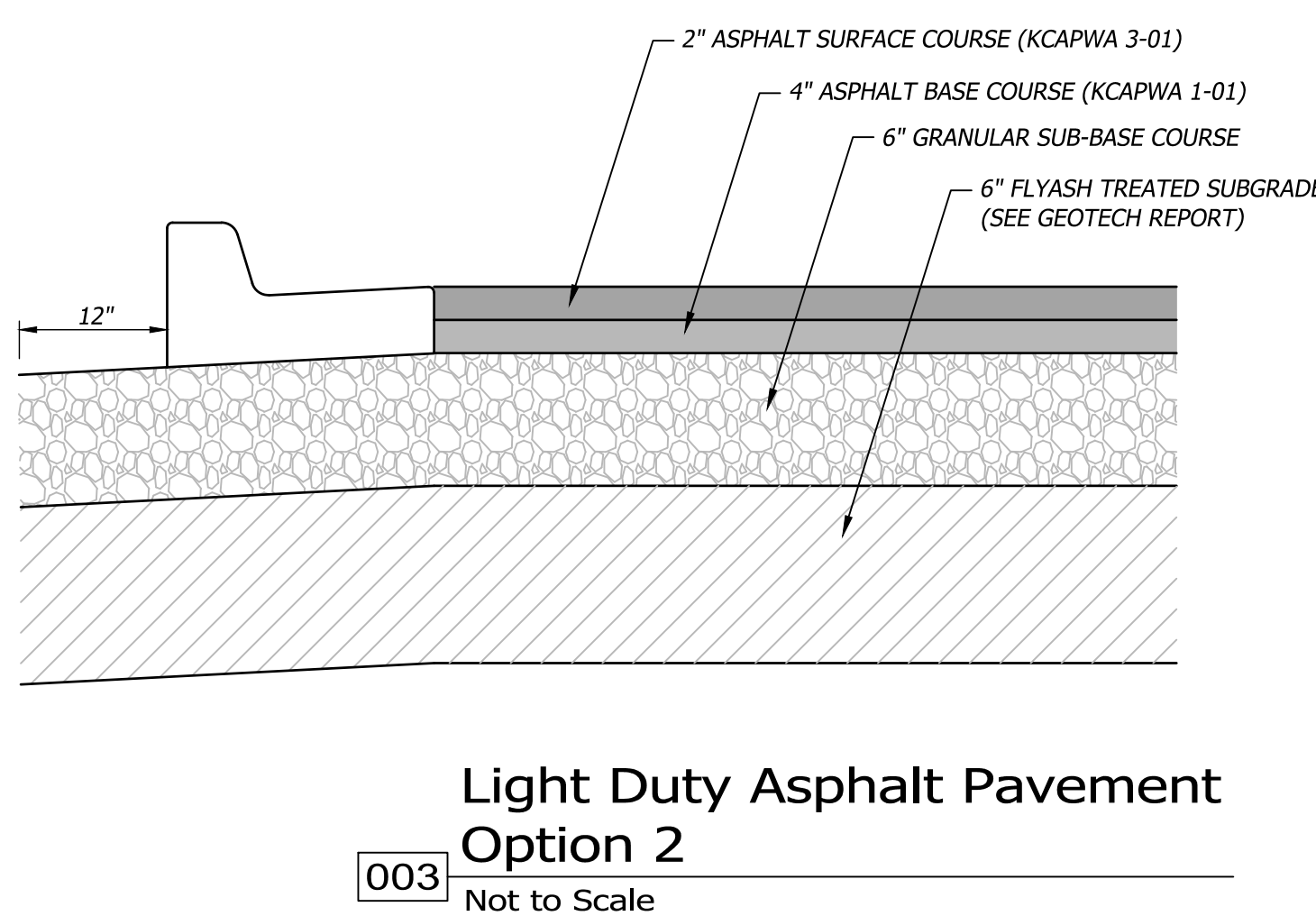
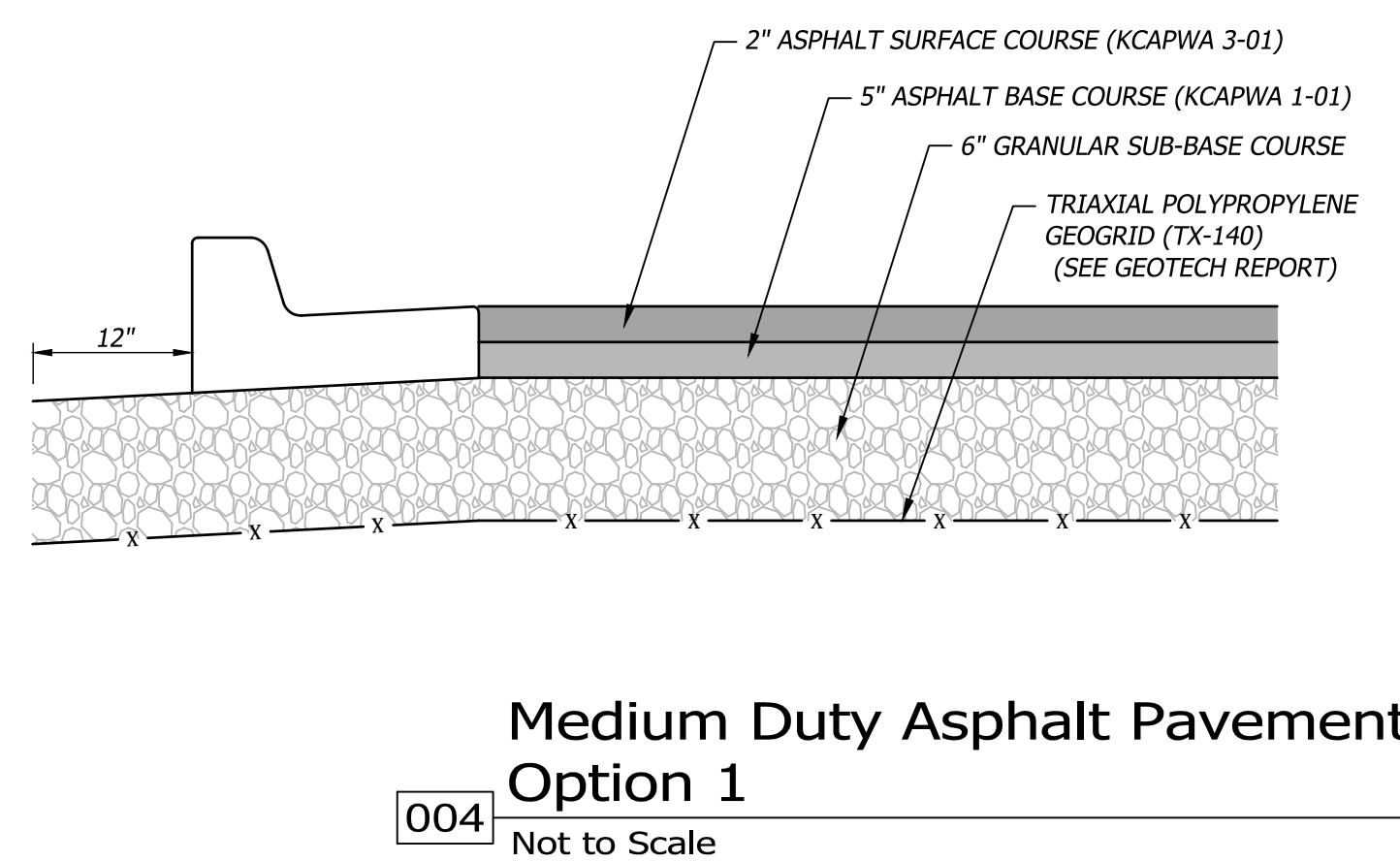
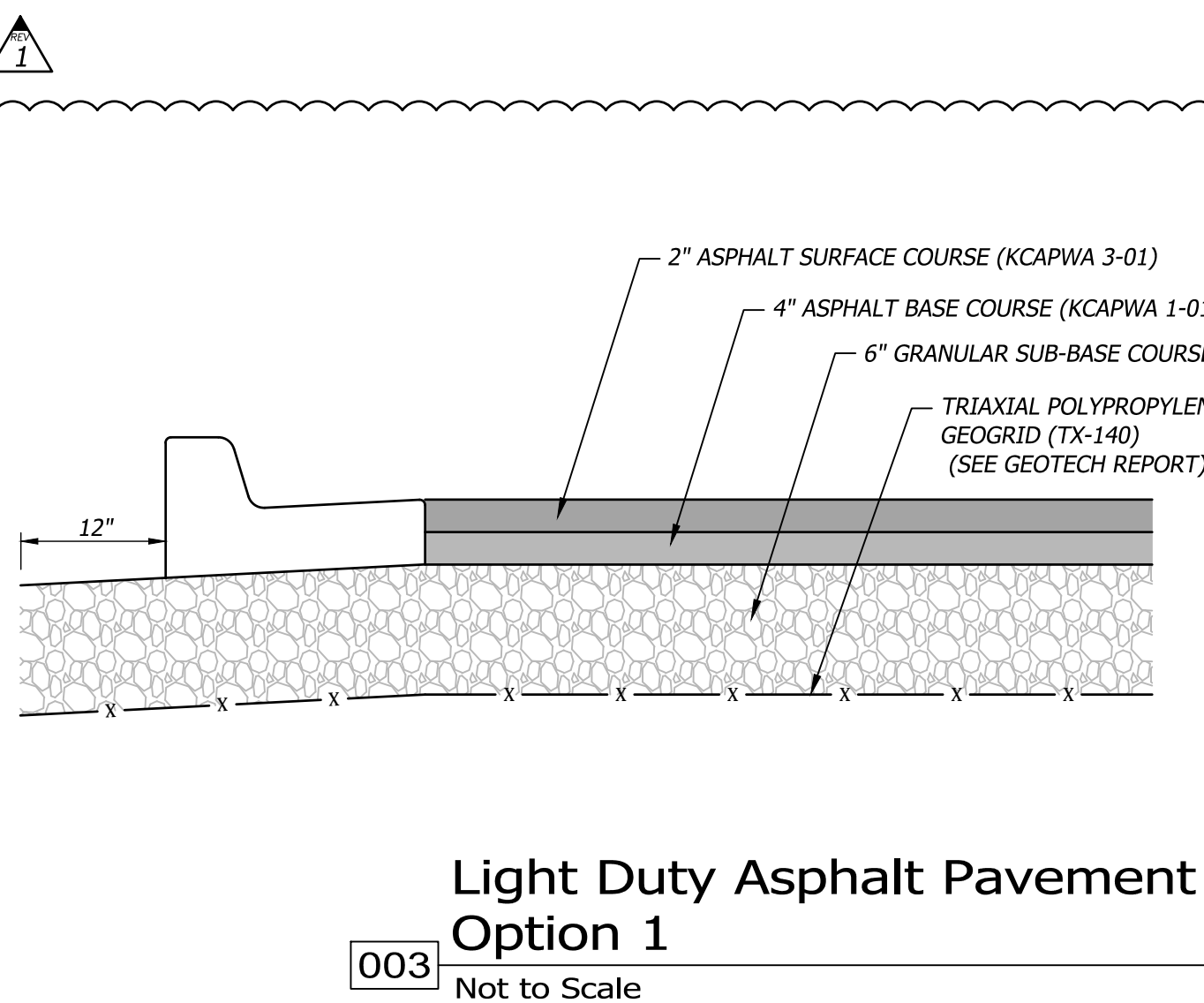
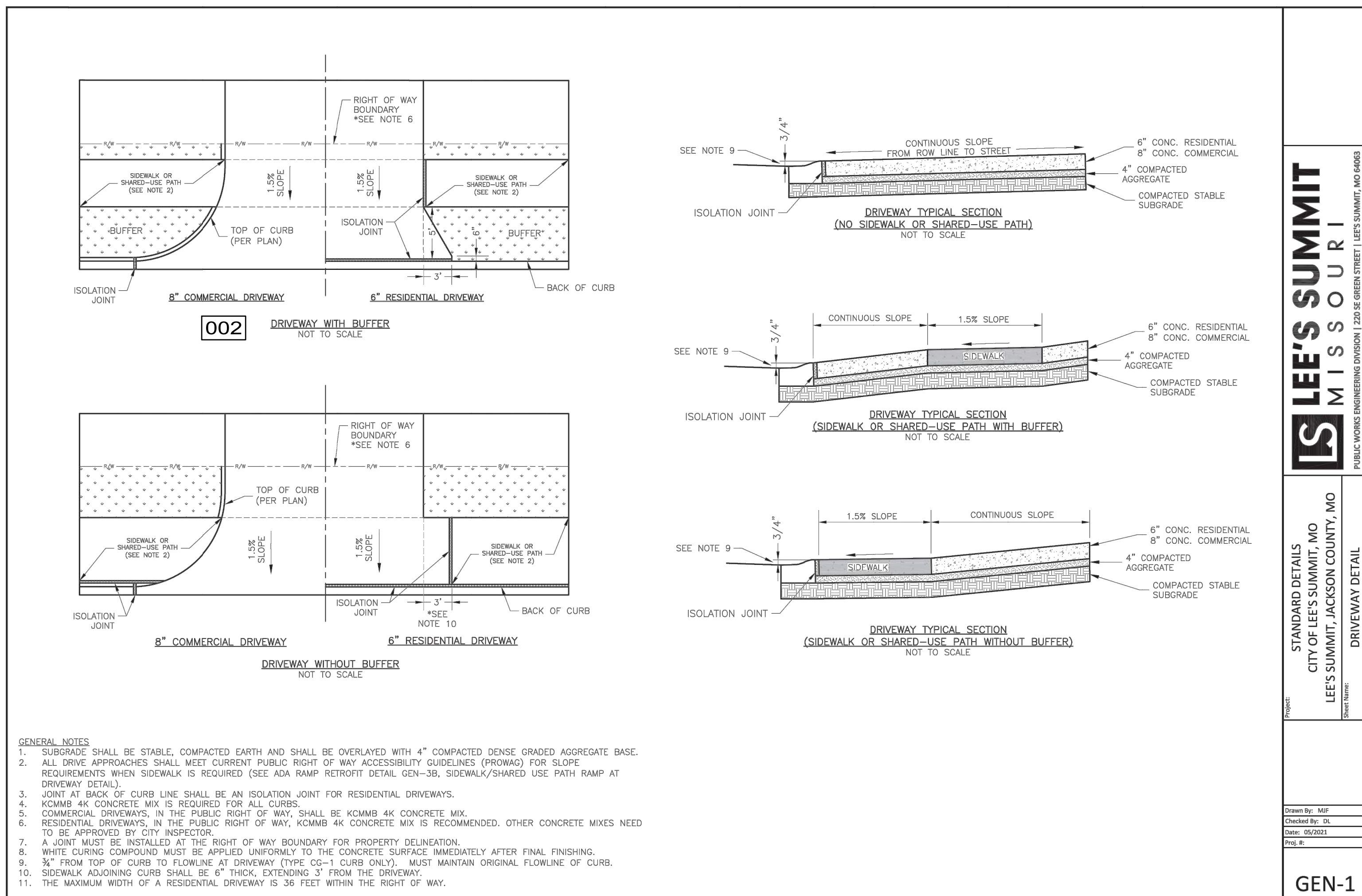
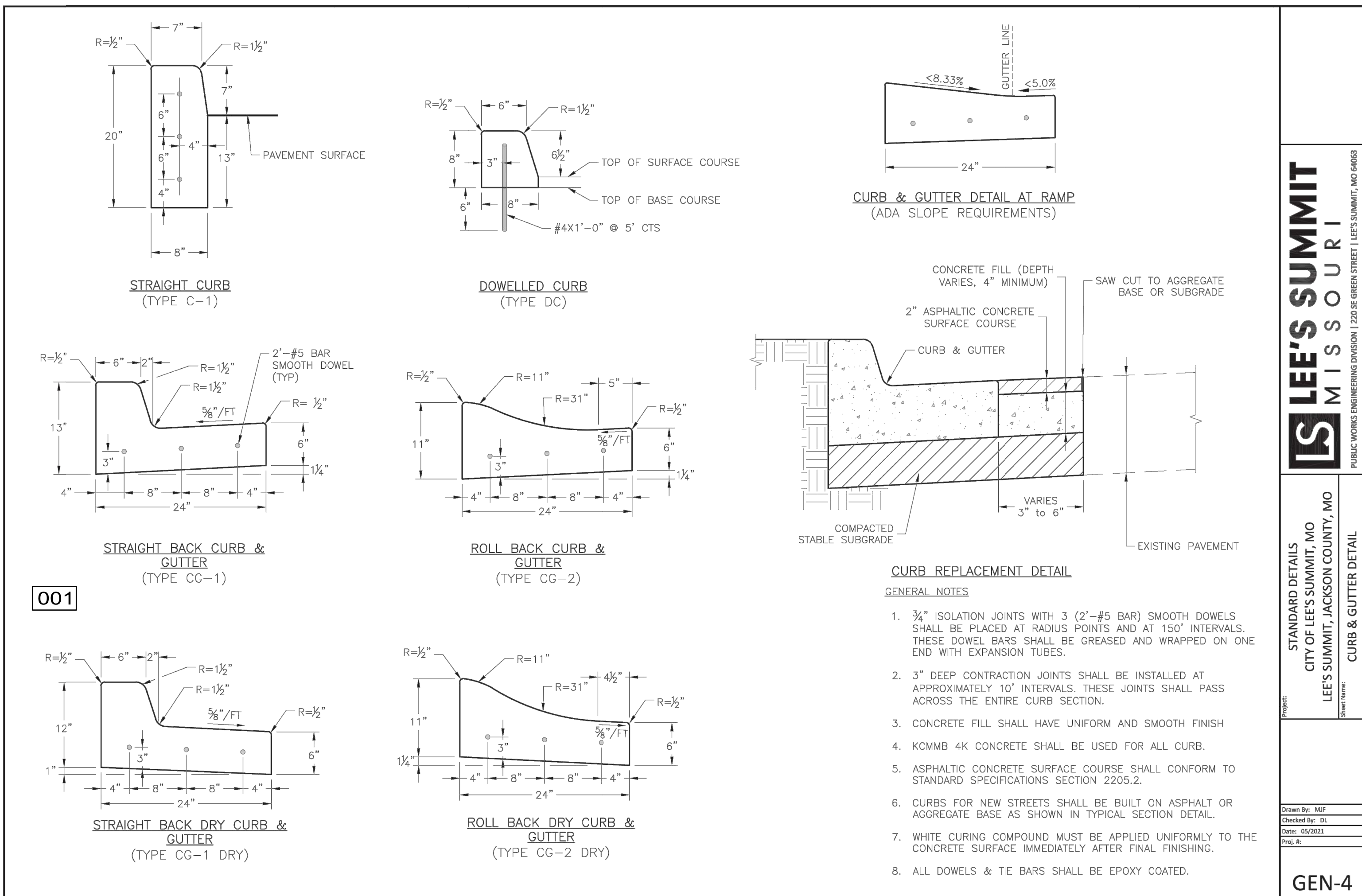
Surgery Center of Lee's Summit
1950 SE Shenandoah Drive
Lee's Summit, MO 64063

Date 01/13/23
Job Number 3-22030
Drawn By TS
Checked By EB

Revision
Number Date Description
1 2/14/23 Addendum 1

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CONSTRUCTION DETAILS



File 14_2023 - 8/4/24m Plotted By: Eric Byrd V:\04460-hoa-hoa-ans\14a-DWG\Eng\Sheet\073\04460-SHTS-DT15.dwg Layout: Details7



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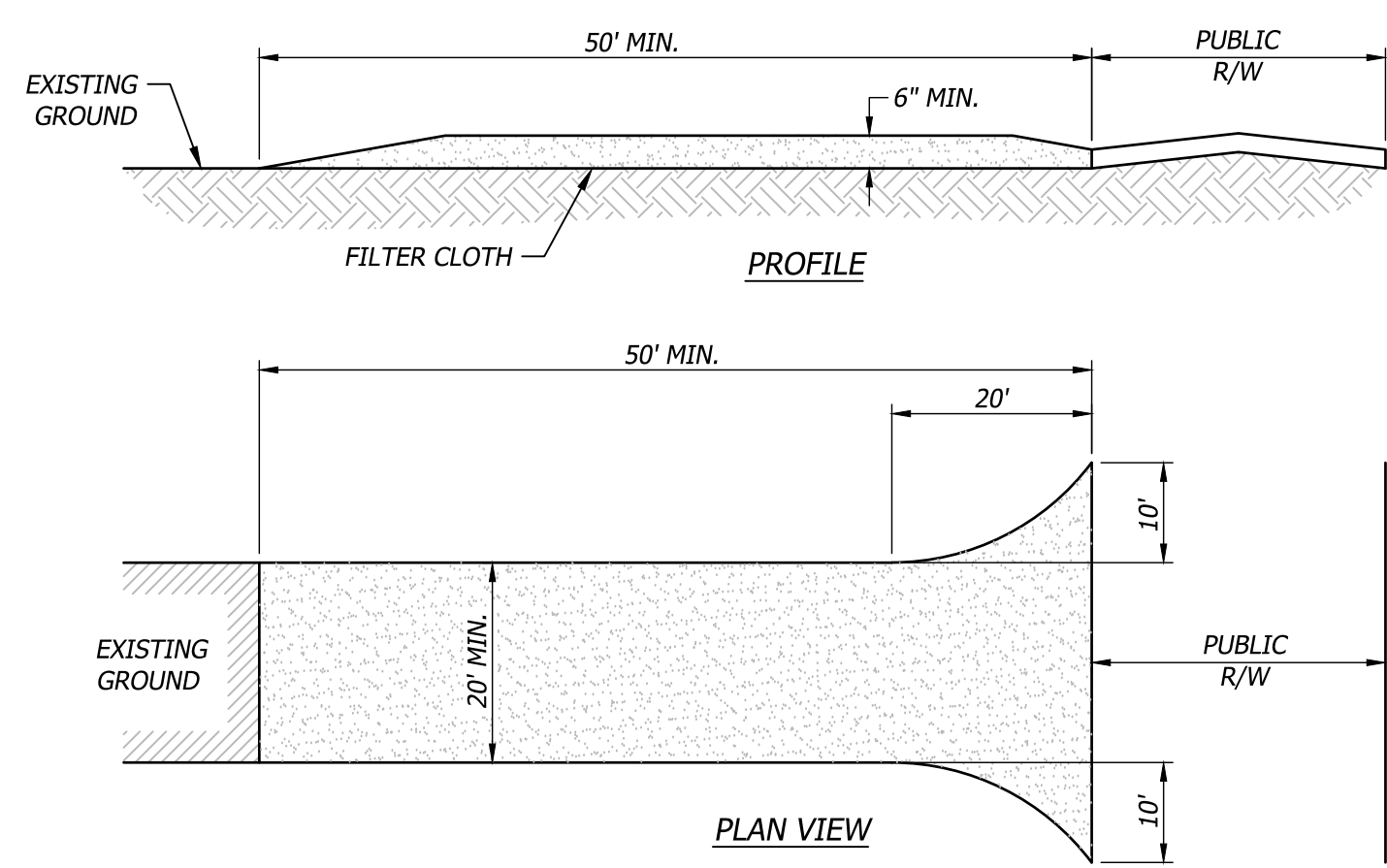
Surgery Center of Lee's Summit
1950 SE Shenandoah Drive
Lee's Summit, MO 64063

Date 01/13/23
Job Number 3-22030
Drawn By TS
Checked By EB

Revision
Number Date Description
1 2/14/23 Addendum 1

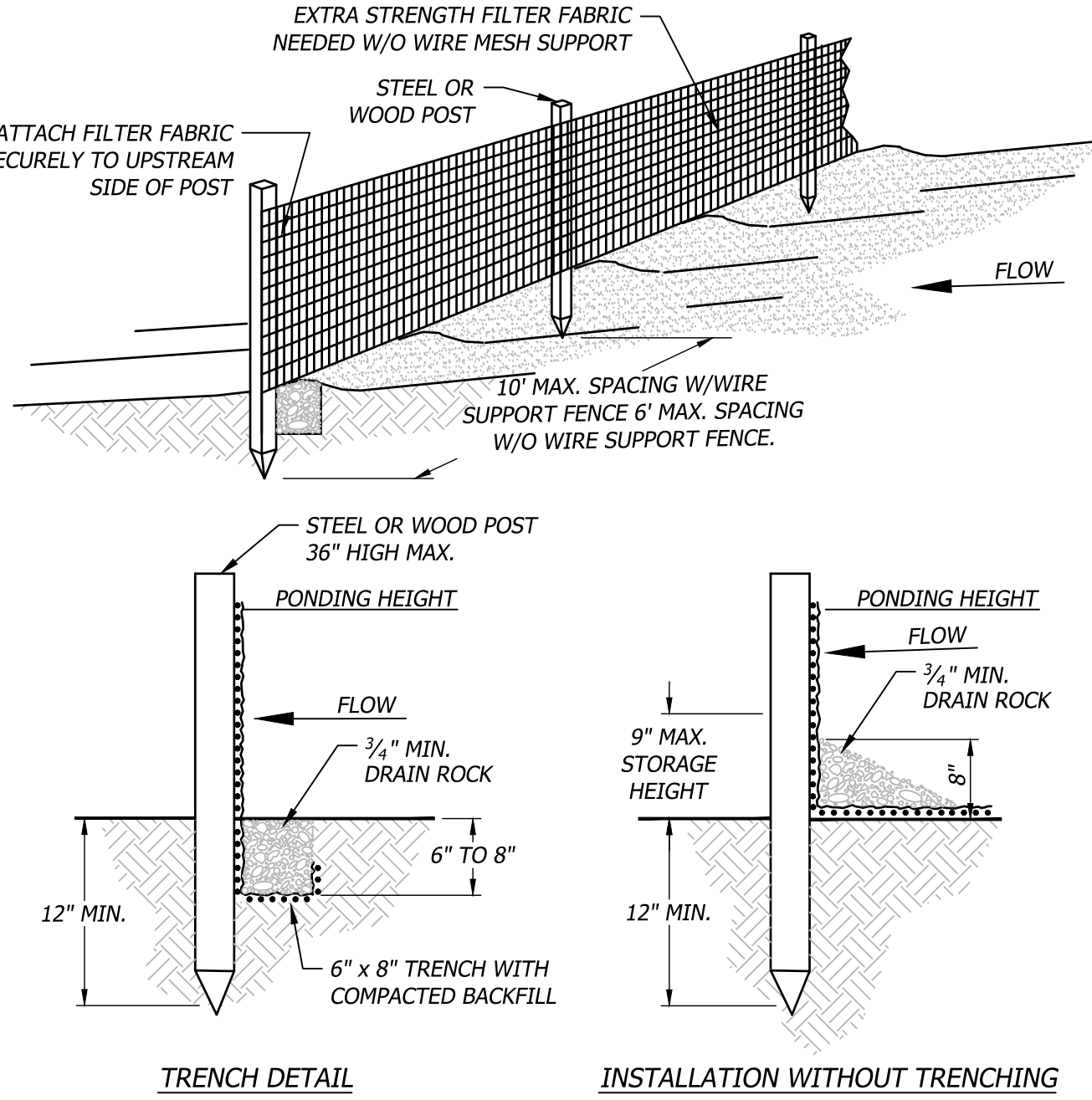
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CONSTRUCTION DETAILS 3



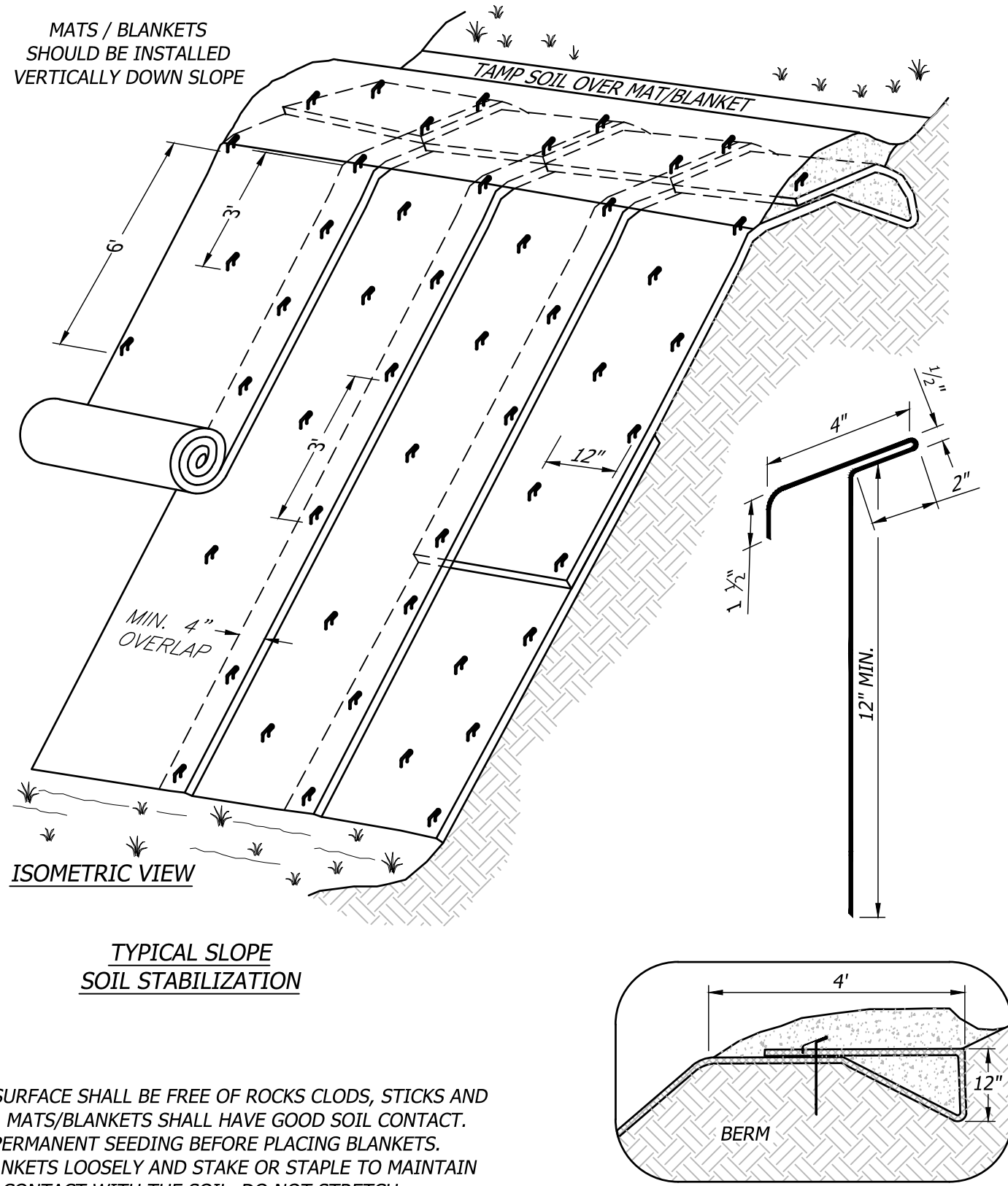
- CONSTRUCTION SPECIFICATIONS:**
1. STONE SIZE - USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.
 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN (30) FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

600 Temporary Construction Entrance
Not to Scale



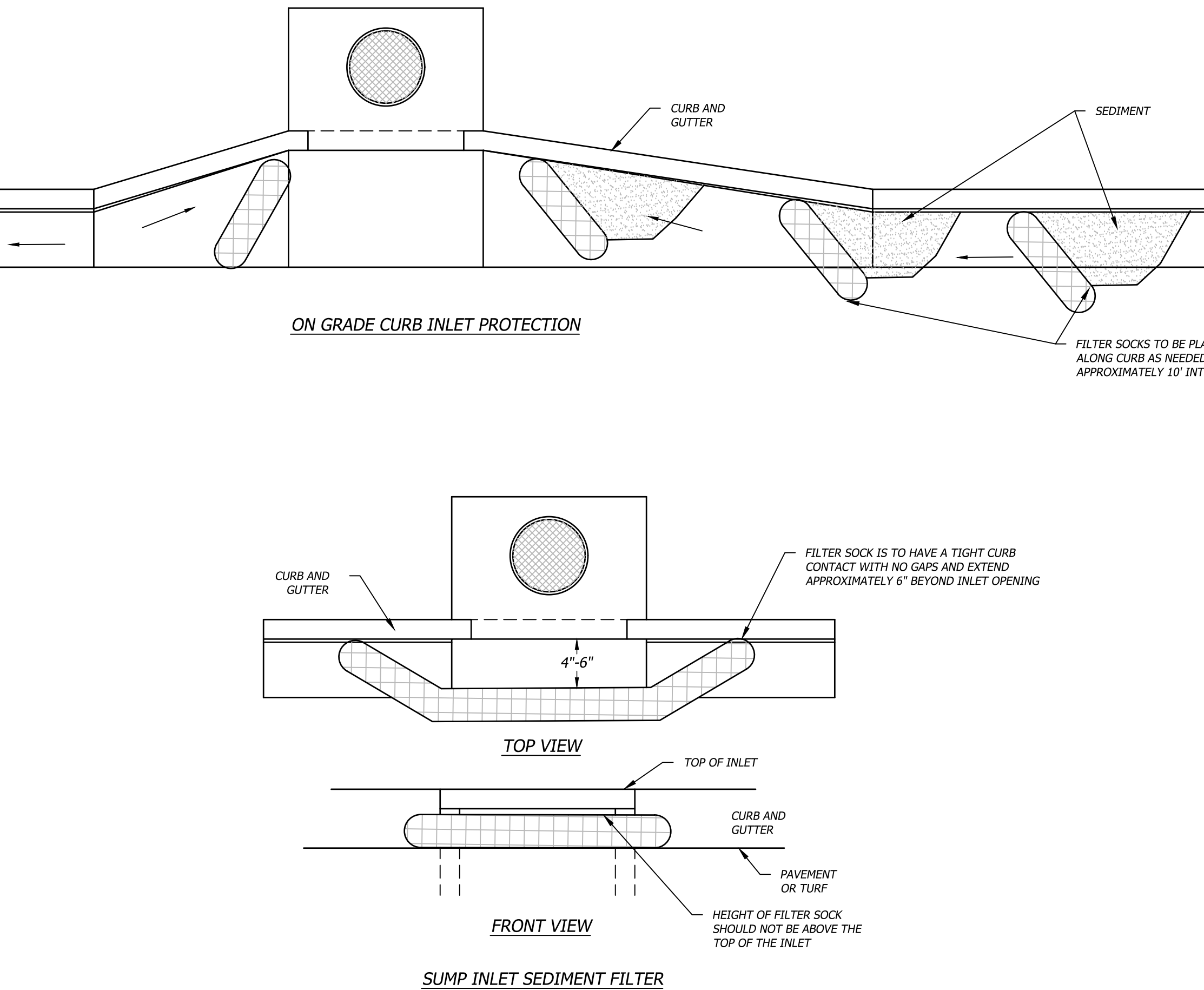
- NOTES:**
1. MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
 2. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
 3. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
 4. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

601 Filter Fabric Silt Fence
Not to Scale

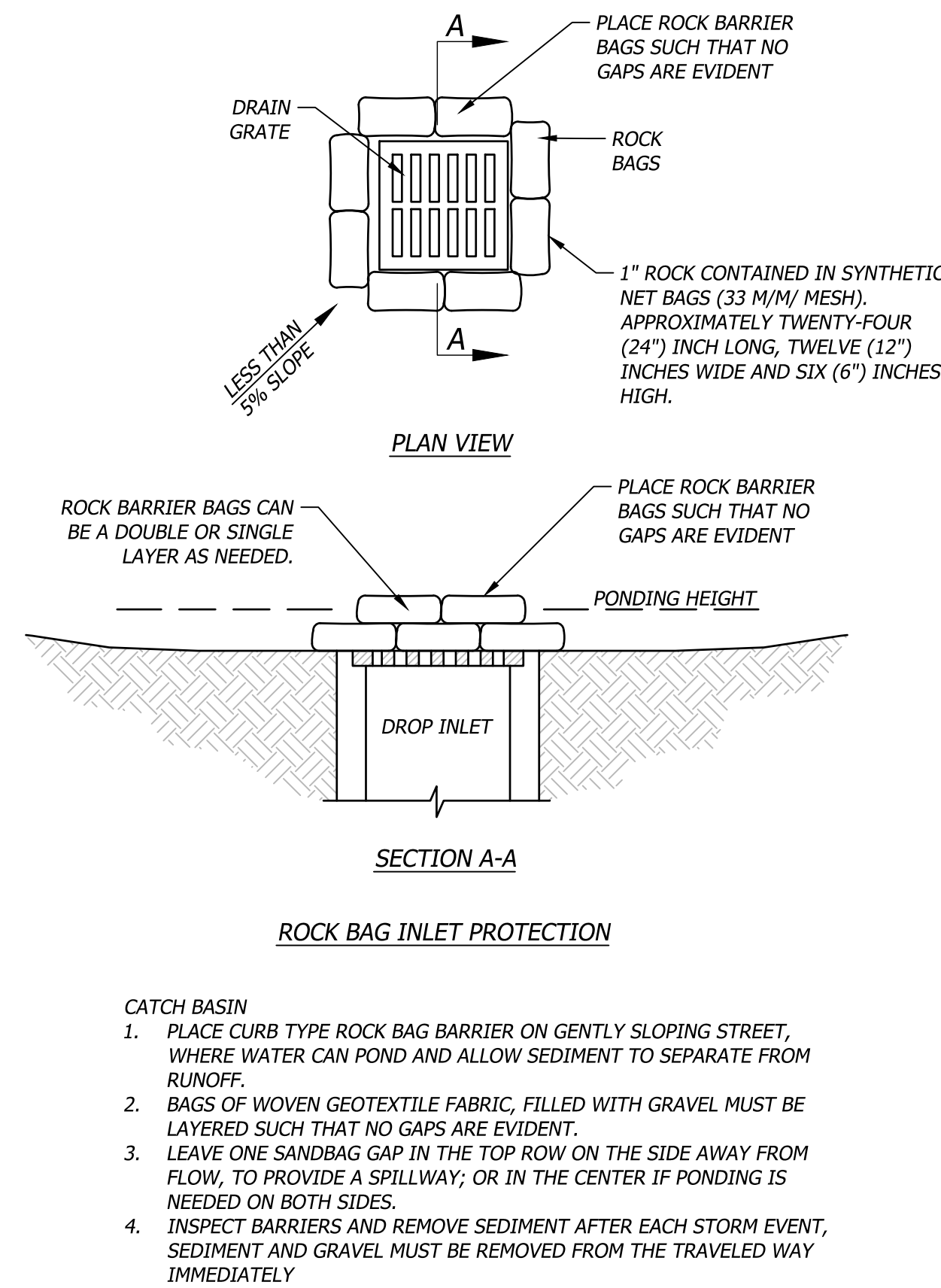


- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

Slope Installation
Erosion Blanket/Turf Mats
602 Not to Scale

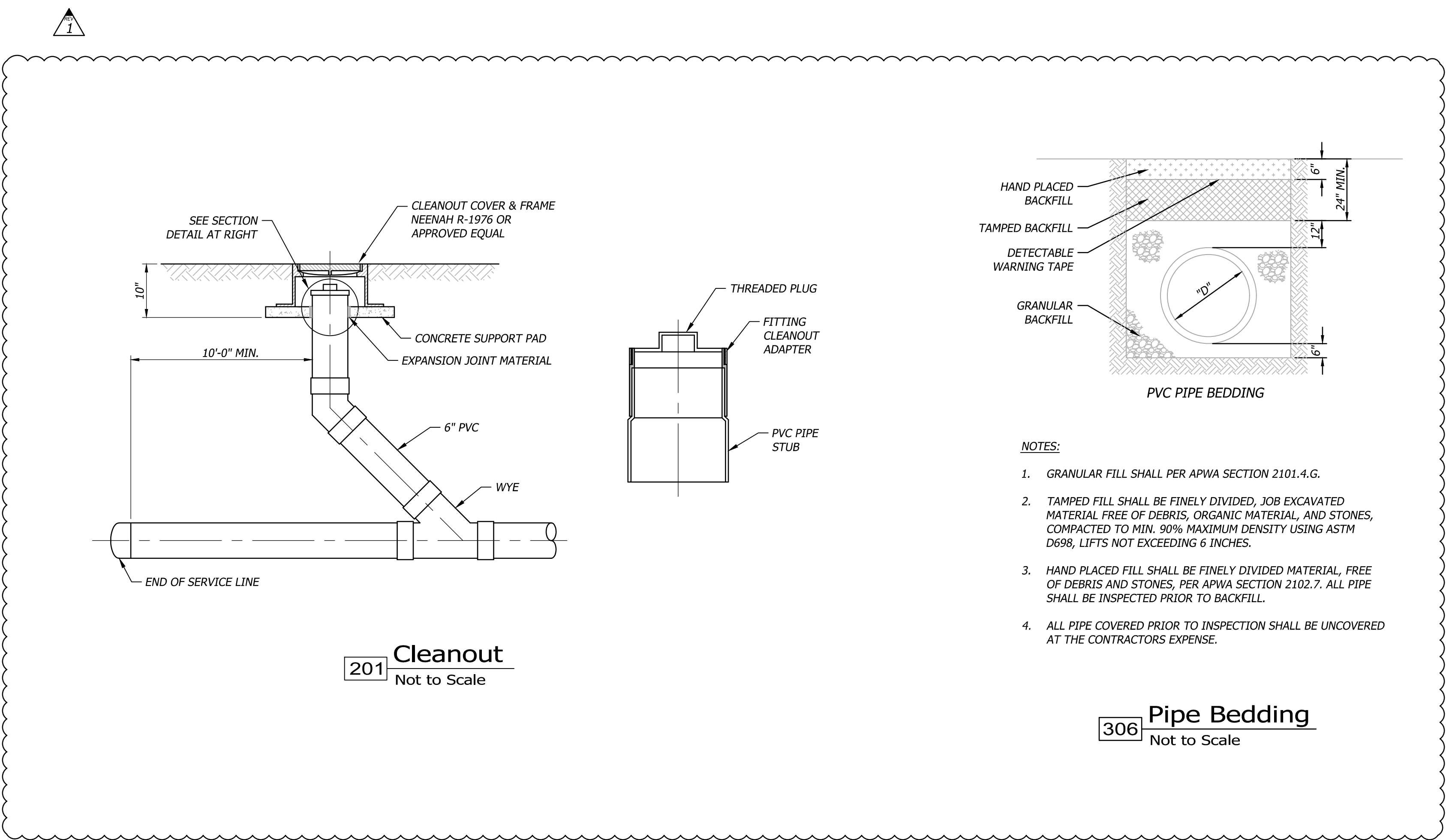
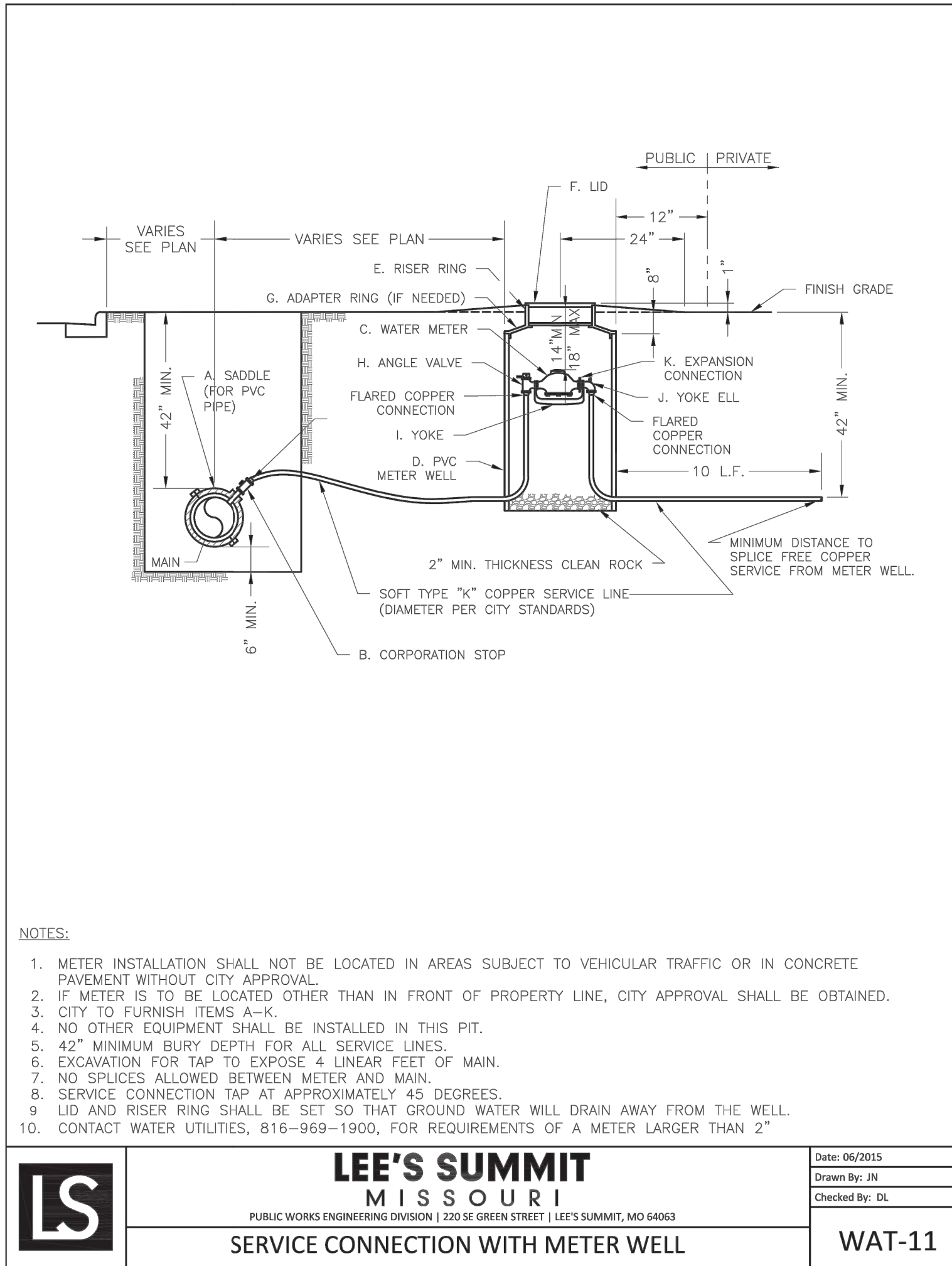
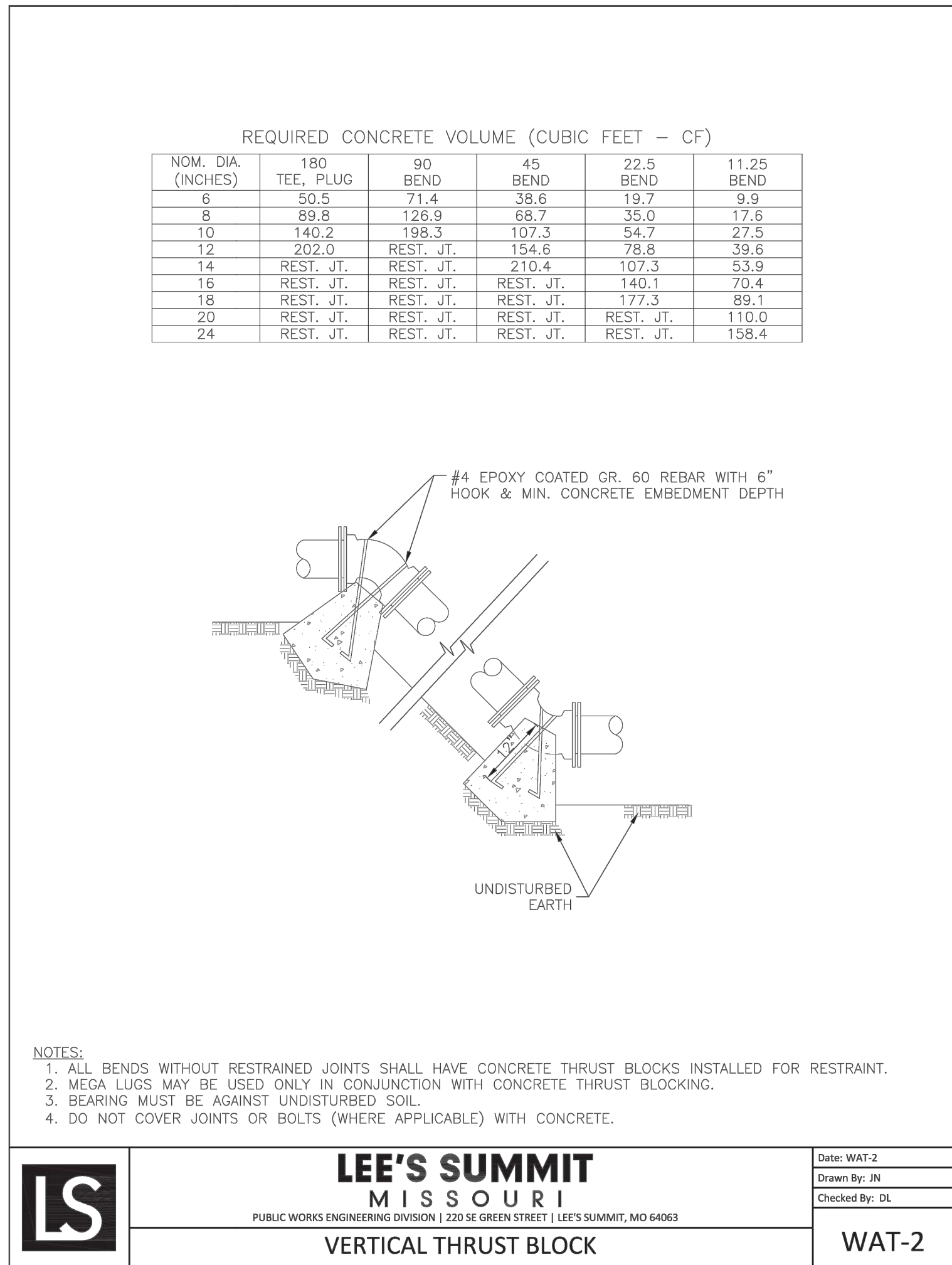
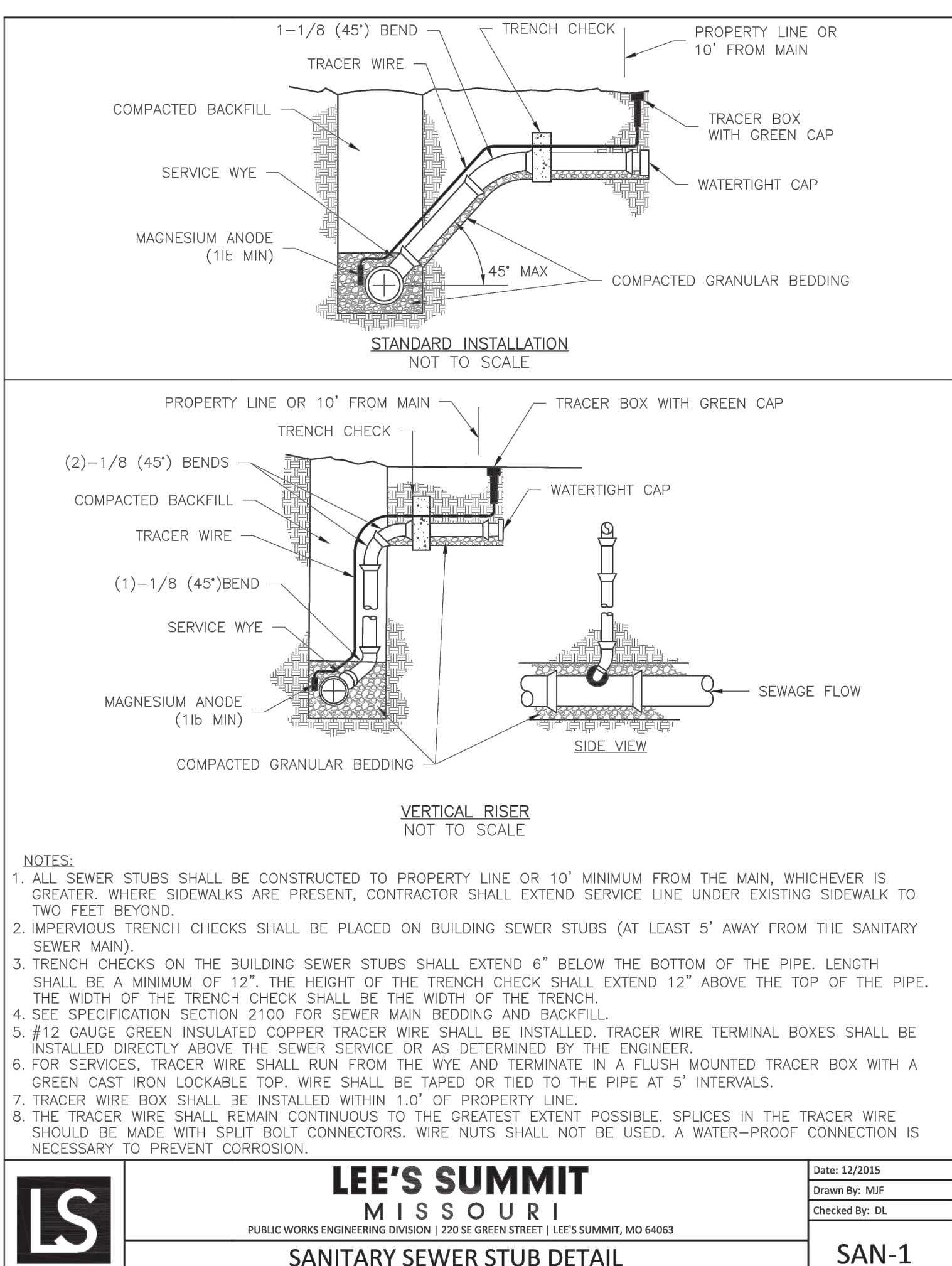
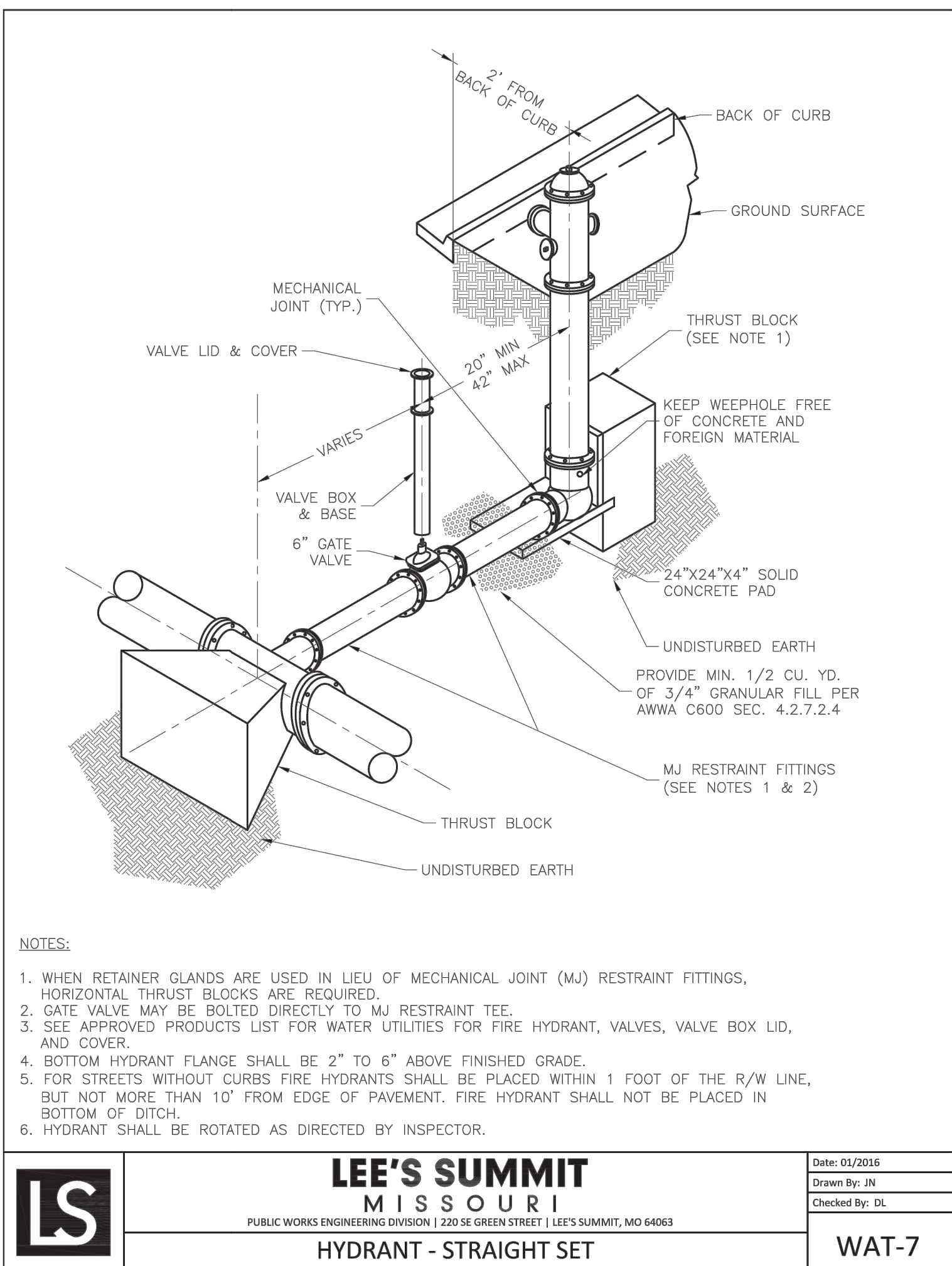
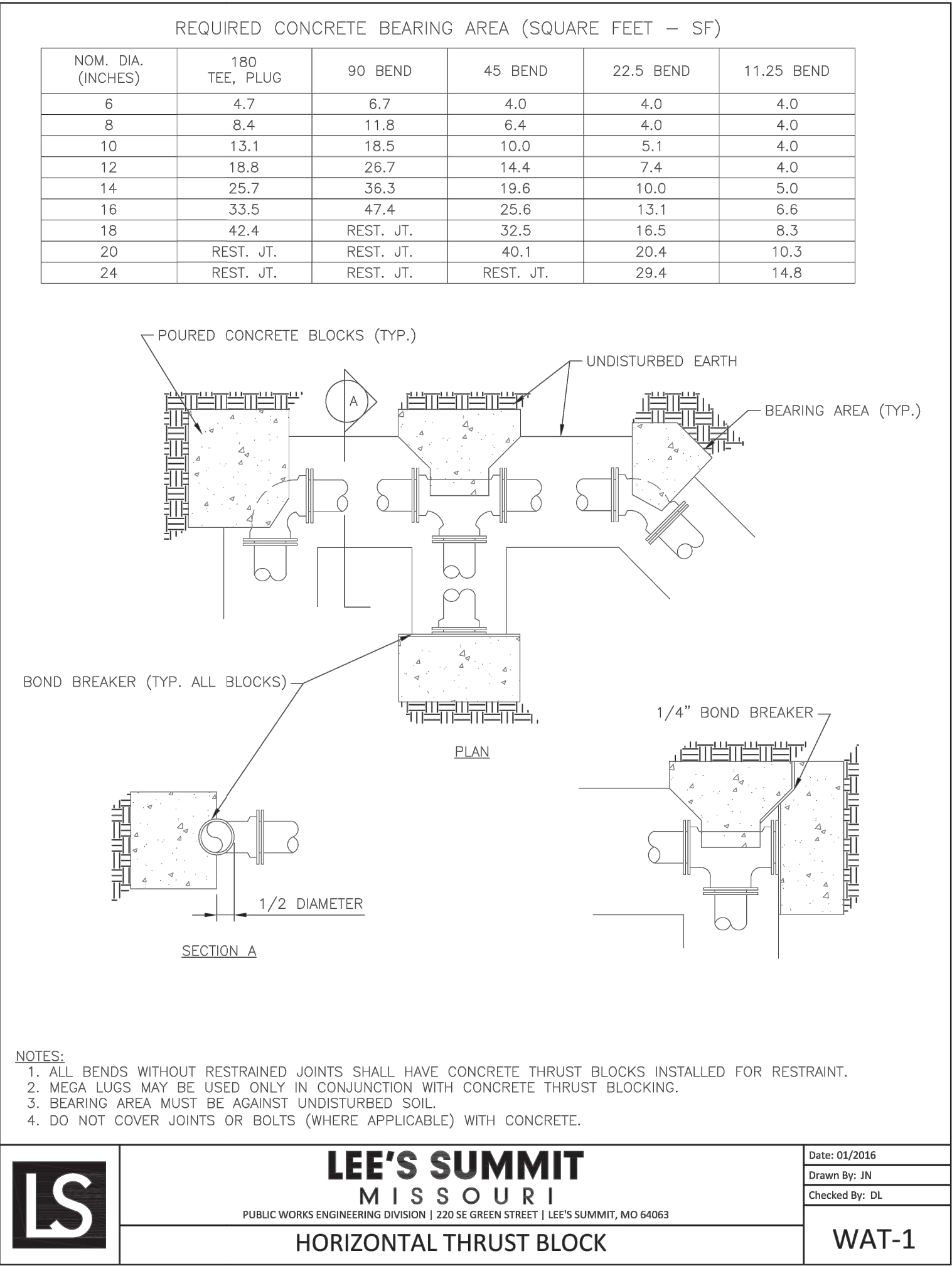
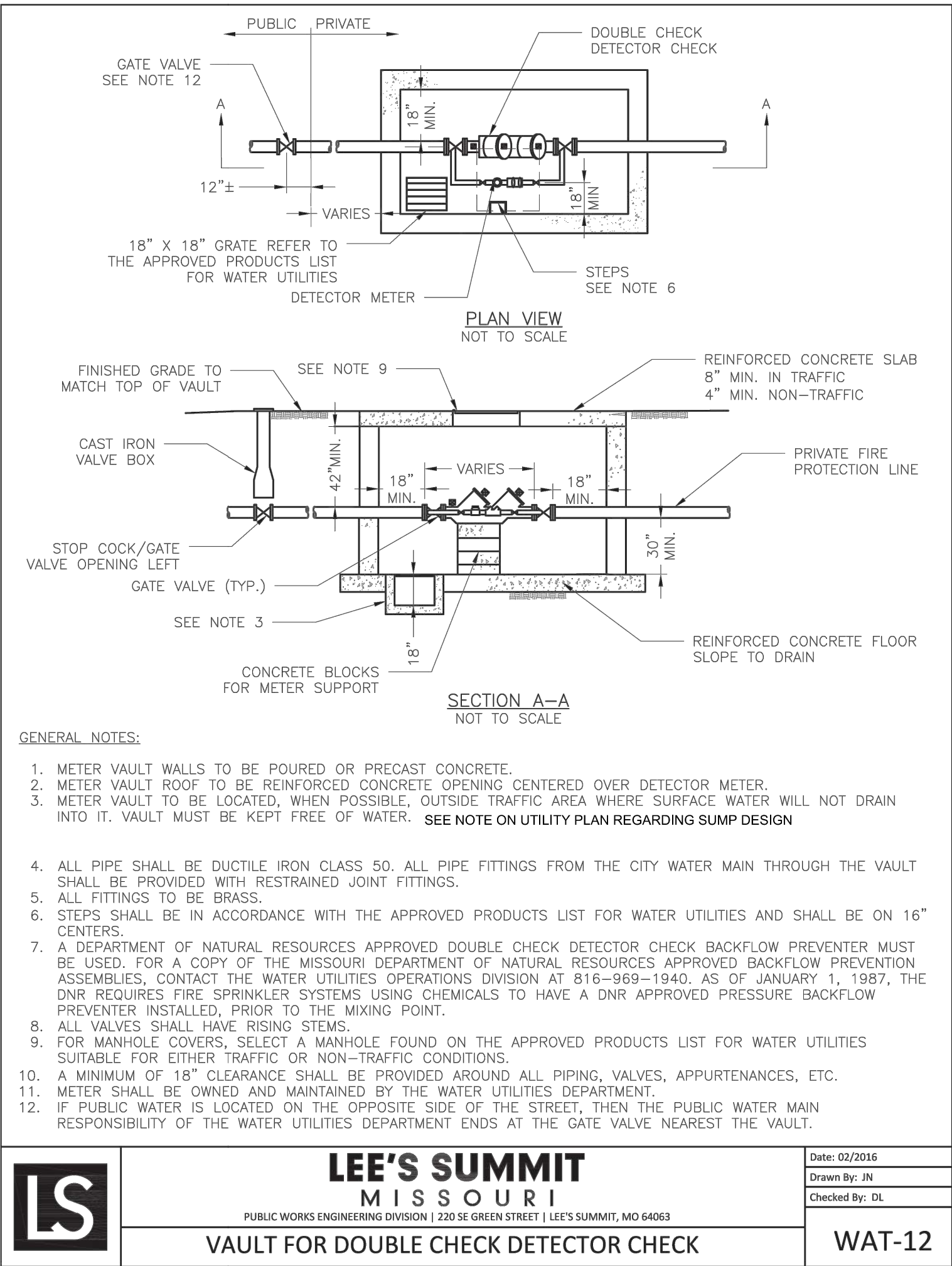


603 Storm Inlet Protection
Not to Scale



604 Concrete Washout
Not to Scale

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Eric Byrd - Engineer
Missouri: #PE-2018013633

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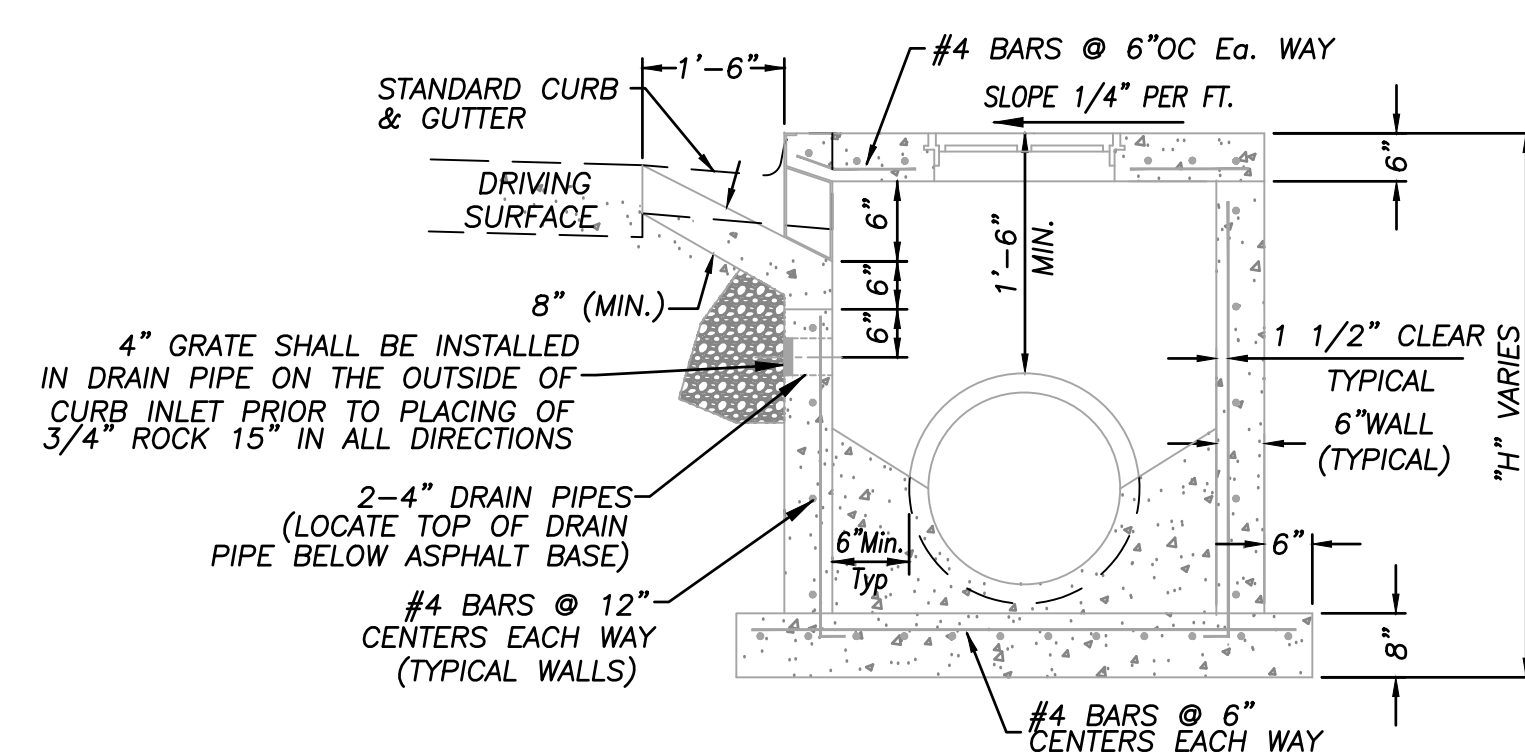
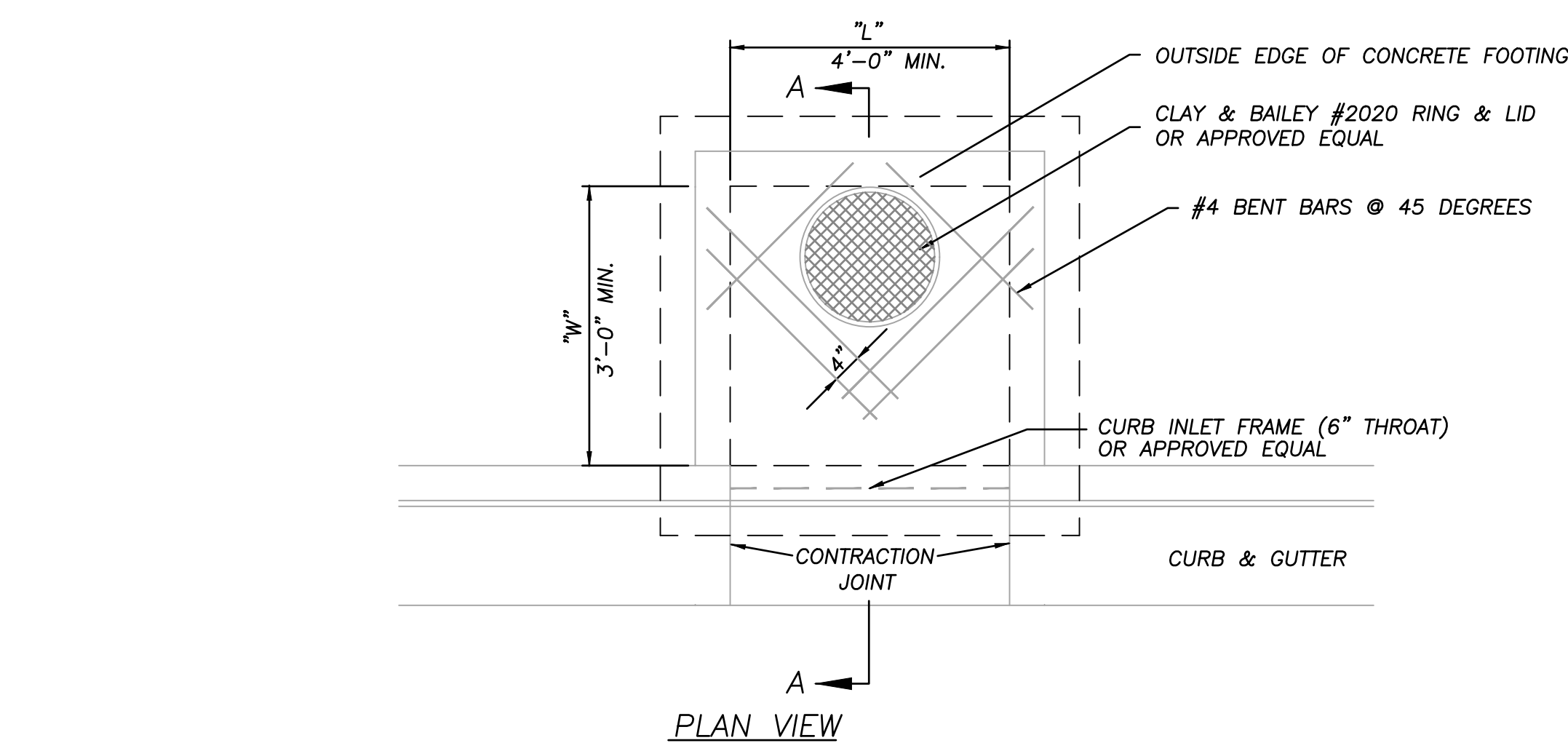
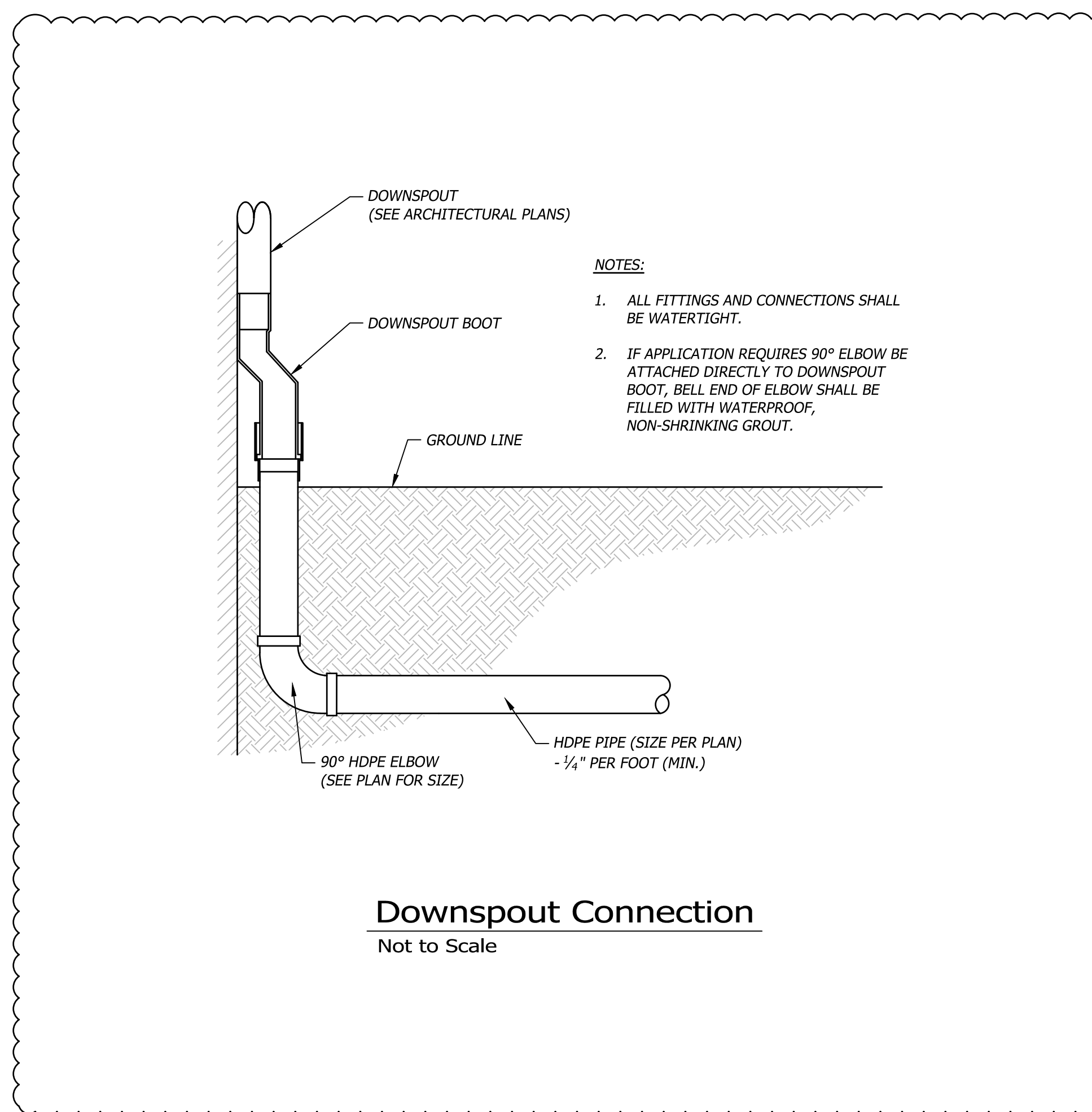
Branch Pattern
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1950 SE Shenandoah Drive
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1	2/14/23	Addendum 1

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CONSTRUCTION DETAILS 4



Non-Setback Curb Inlet

Not to Scale

- NOTES

1. ALL CONCRETE SHALL BE KCMMB-4K.
2. INLET CONSTRUCTION NOTES SHALL LIST THE "L" DIMENSION FIRST, THE "W" DIMENSION SECOND, AND THE "H" DIMENSION THIRD.
3. FLOOR OF INLET SHALL HAVE A SHAPED CONCRETE INVERT TO PROVIDE FOR SMOOTH FLOW.
4. THE MINIMUM DIMENSION BETWEEN TOP OF PIPE AND TOP OF BOX SHALL BE 1'-6" (TYPICAL ALL WALLS).
5. ALL INGRADE INLETS SHALL CONFORM TO STREET GRADE. ALL INLETS IN SUMP SHALL BE LEVEL. BEVEL ALL EXPOSED EDGES WITH 3/4" TRIANGULAR MOLDING.
6. THE THROAT AND TRANSITION ARE SUBSIDIARY TO THE STRUCTURE.

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CONSTRUCTION DETAILS 5

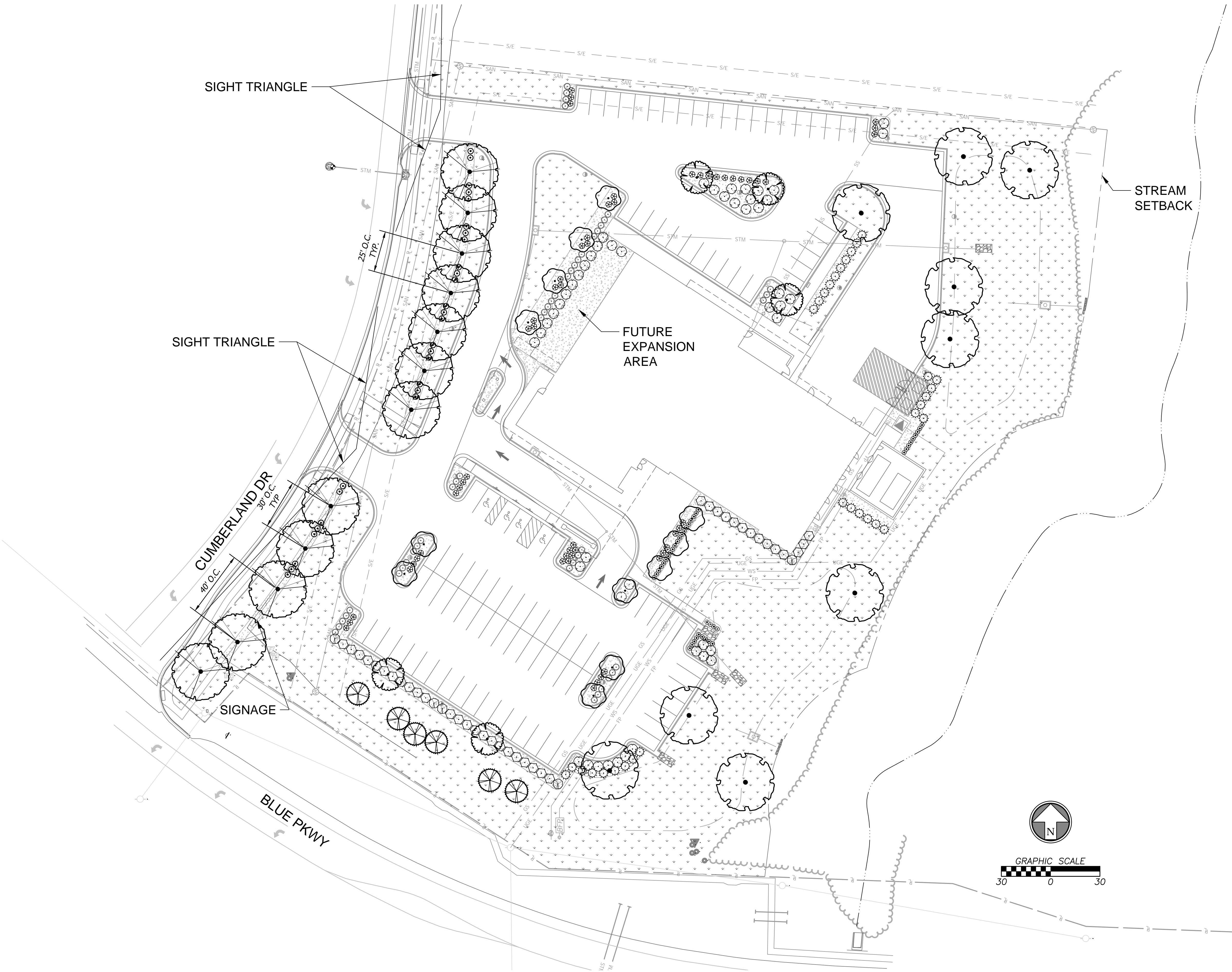
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GENERAL LANDSCAPE NOTES





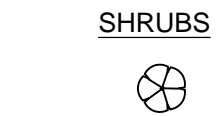
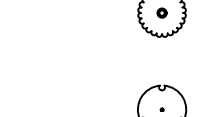

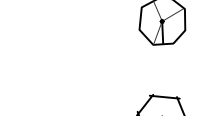


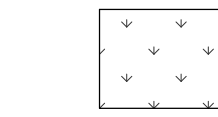

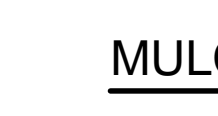

- The Contractor shall verify and coordinate all final grades with the Landscape Architect and or design team prior to completion.
- Location and placement of all plant material shall be coordinated with the Landscape Architect prior to installation.
- Location of all utilities are approximate, the Contractor shall field verify locations prior to commencement of construction operations.
- Refer to Civil Drawings for all grading and berming, erosion control, storm drainage, utilities and site layout.
- The Contractor shall arrange and conduct a pre-construction meeting onsite with Landscape Architect prior to work.
- Plant quantities are for information only, drawing shall prevail if conflict occurs. Contractor is responsible for calculating own quantities and bid accordingly.
- Tree locations in areas adjacent to drives, walks, walls and light fixtures may be field adjusted as approved by Landscape Architect.
- The Contractor shall report subsurface soil or drainage problems to the Landscape Architect.
- The plan is subject to changes based on plant size and material availability. All changes or substitutions must be approved by the City of Lee's Summit and the Landscape Architect.
- Aluminum landscape edging to be used on all landscape beds adjoining turf areas as noted on landscape plans.
- Landscape Contractor shall be responsible for watering all plant material until the time that a permanent water source is ready.
- The Contractor shall show proof of procurement, sources, quantities, and varieties for all shrubs, perennials, ornamental grasses, and annuals within 21 days following the award of the contract.
- Contractor shall provide full maintenance for newly landscaped areas for a period of 30 days after the date of final acceptance. At the end of the maintenance period, a healthy, well-rooted, even-colored, viable turf and landscaped area must be established. The landscaped areas shall be free of weeds, open joints, bare areas, and surface irregularities.
- Landscape Contractor shall provide rock mulch sample to owner for approval.

GENERAL IRRIGATION NOTES

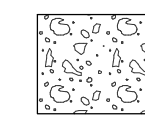
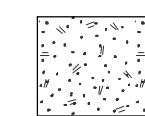
- Irrigation plan to be provided during permitting phase of development
- Irrigation plan to not interfere with any proposed improvements shown.
 - Irrigation system design to be based on available psi. Minimum operating pressure for spray heads shall be 30 psi and minimum operating pressure for drip zones shall be 40 psi.
 - The contractor shall be responsible for providing uninterrupted, 110 v electrical service to the controller and for all hook-ups. All exposed low voltage wire shall be enclosed in a conduit.
 - Place valve boxes 12" minimum from and parallel to curbs and walks, grouped valves to be equally spaced.
 - Install all mainlines to 1% minimum slope to drain valves located at low points of main system.
 - Irrigation controller and rain sensor shall be located in owner approved locations.




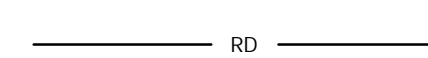

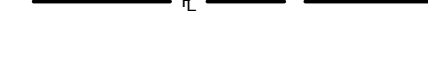
PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT
	12	Platanus x acerifolia 'Morton Circle' / Exclamation™ London Plane Tree FOR PLANTING SPECIFICATIONS SEE DETAIL 801 & 802, SHEET L2.0	B & B	3" cal	
	9	Quercus imbricaria / Shingle Oak FOR PLANTING SPECIFICATIONS SEE DETAIL 801 & 802, SHEET L2.0	B & B	3" cal	
	5	Tilia americana 'Lincoln' / Lincoln American Linden FOR PLANTING SPECIFICATIONS SEE DETAIL 801 & 802, SHEET L2.0	B & B	3" cal	
EVERGREEN TREE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT
	6	Picea pungens glauca 'Bakeri' / Bakeri Blue Spruce FOR PLANTING SPECIFICATIONS SEE DETAIL 801 & 802, SHEET L2.0	B & B		8' H
ORNAMENTAL TREE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT
	12	Malus x 'JFS-KW5' / Royal Raindrops® Crabapple FOR PLANTING SPECIFICATIONS SEE DETAIL 801 & 802, SHEET L2.0	B & B	3" cal	
SHRUBS	QTY	BOTANICAL / COMMON NAME	SPEC	HEIGHT	
	56	Cornus sericea 'Farrow'™ / Arctic Fire Red Twig Dogwood FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	18"- 24" H	
	28	Itea virginica 'Merlot' / Merlot Sweetpire FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	24"-36" H	
	49	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	12"-18" H	
EVERGREEN SHRUB	QTY	BOTANICAL / COMMON NAME	SPEC	HEIGHT	
	46	Chamaecyparis pisifera 'Golden Mop' / Golden Mop Threadleaf Sawara Cypress FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	24"- 30" H	
	5	Ilex x meserveae 'China Boy' / China Boy® Holly FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	24"-36" H	
	38	Ilex x meserveae 'China Girl' / China Girl® Holly FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	18"- 24" H	
	32	Taxus x media 'Fairview' / Fairview Yew FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	5 gal	24"- 30" H	
PERENNIALS	QTY	BOTANICAL / COMMON NAME	SPEC	HEIGHT	
	42	Panicum virgatum 'Northwind' / Northwind Switch Grass FOR PLANTING SPECIFICATIONS SEE DETAIL 803 & 804, SHEET L2.0	1 gal	12"-18" H	
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SPEC		
	67,953 sf	Festuca arundinacea 'Watersaver Blend' / Watersaving Blend of Tall Fescue Sod: 90% 3-species Turf-Type Fescue Blend (Covenant II, Avenger, Garrison), 10% Bluegrass. PLACE ALUMINUM LANDSCAPE EDGING, OR APPROVED EQUAL, WHERE PLANTING BEDS ADJOIN TURF AREAS. SEE DETAIL 805, SHEET L2.0	sod		

MULCH SCHEDULE

	ROCK MULCH SAMPLE OF ROCK MULCH TO BE PROVIDED TO OWNER AND ARCHITECT FOR APPROVAL. Buffalo River Rock or Regional Equal. Size: 1"-3" Rock. Depth: 3" Depth	1,680 sf
	WOOD MULCH Double Ground Hardwood Mulch 3" Depth.	11,164 sf

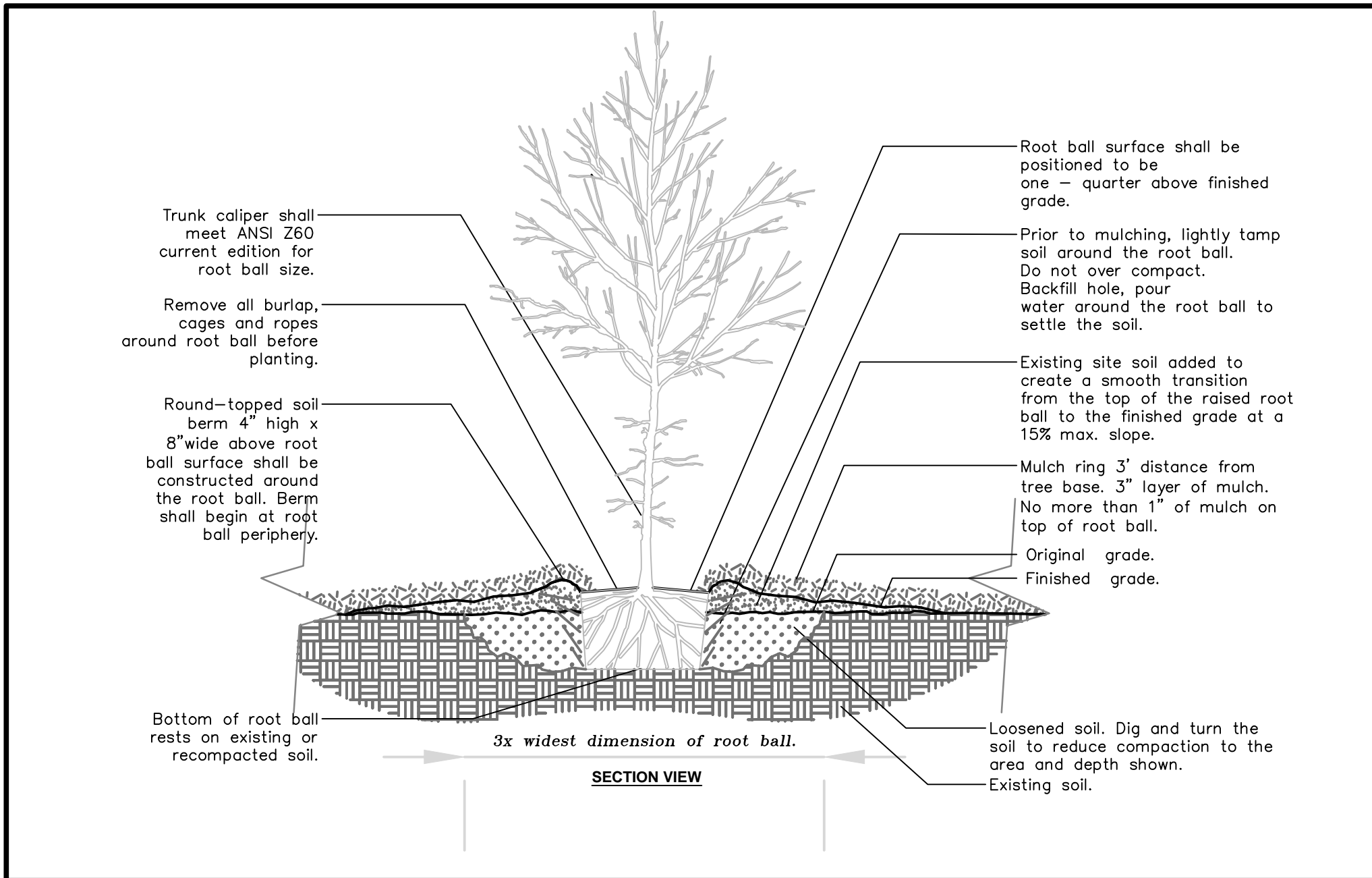
LEGEND

	PROPOSED STORM SEWER LINE
	PROPOSED ROOF LINE DRAIN
	PROPERTY LINE
	RIGHT-OF-WAY LINE

SITE DATA

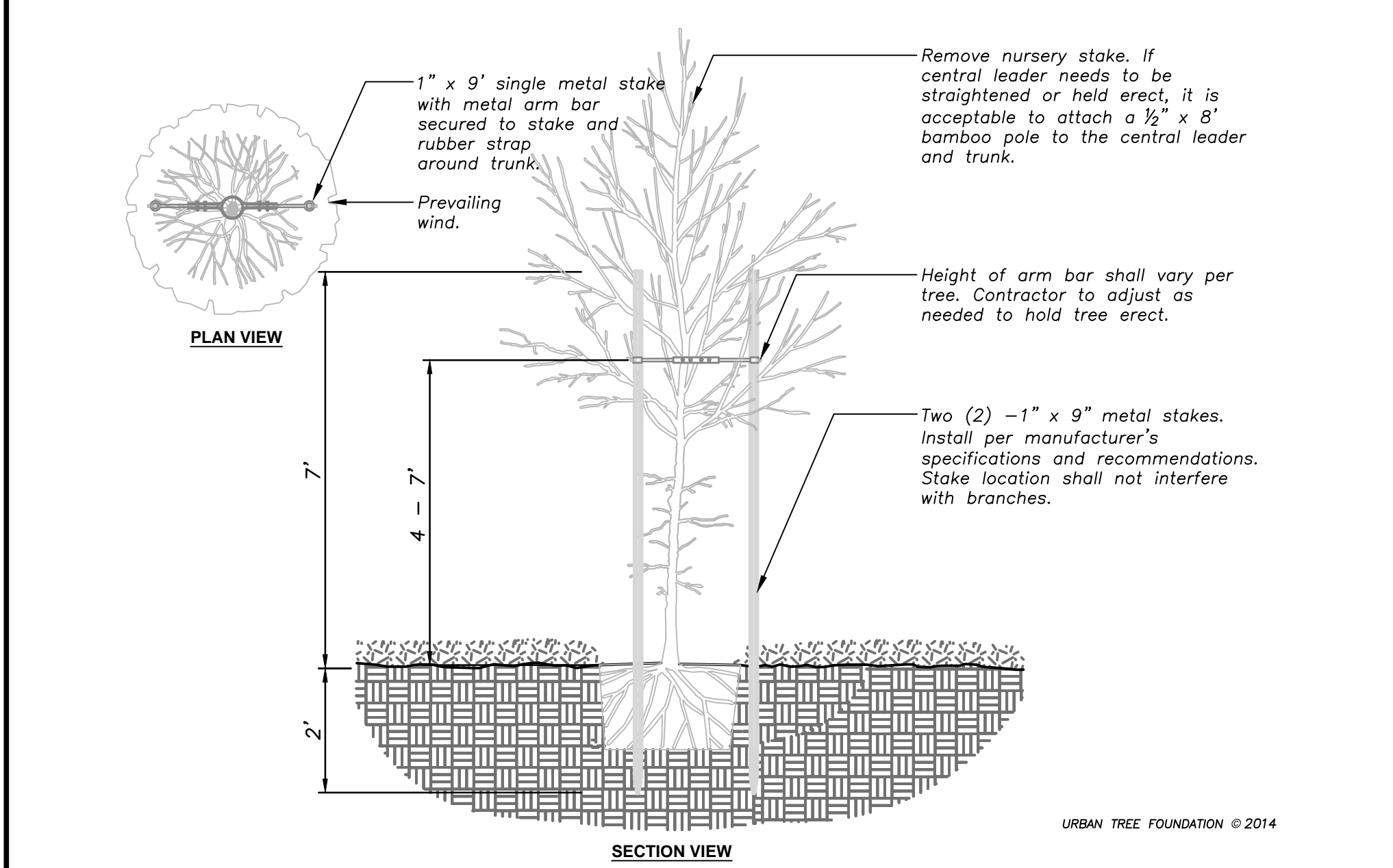
	Quantity	Required	Provided
Street Frontage			
SE Cumberland Dr	351.2		
1 tree / 30 LF of street		11.71	12
1 shrub / 20 LF of street		17.56	28
Open Yard			
site area (without bldg footprint)	152,945		
1 tree / 5,000 SF of lot		30.59	32
2 shrubs / 5,000 SF of lot		61.18	268
Perimeter Parking Landscape			
continuous 2.5' ht screen: min 12 shrubs / 40 LF		Y	Y
Island/Interior Landscape			
parking area (SF)	79,841.00		
landscape min 5% of parking area		3,992.1	7,190.8
trees/landscape in islands		Y	Y
groundcover on all interior areas		Y	Y
Utility Screening			
above ground cabinets should be screened w/landscaping		Y	Y

V:\04660-NCA_L5MC_A5C\04-LAND_A5C\Sheet\Drawings\04660-SITE-DTLS.dwg Layout: PLANTING DETAILS
Jan 10, 2023 - 9:01am Plotted By: angela.mayer



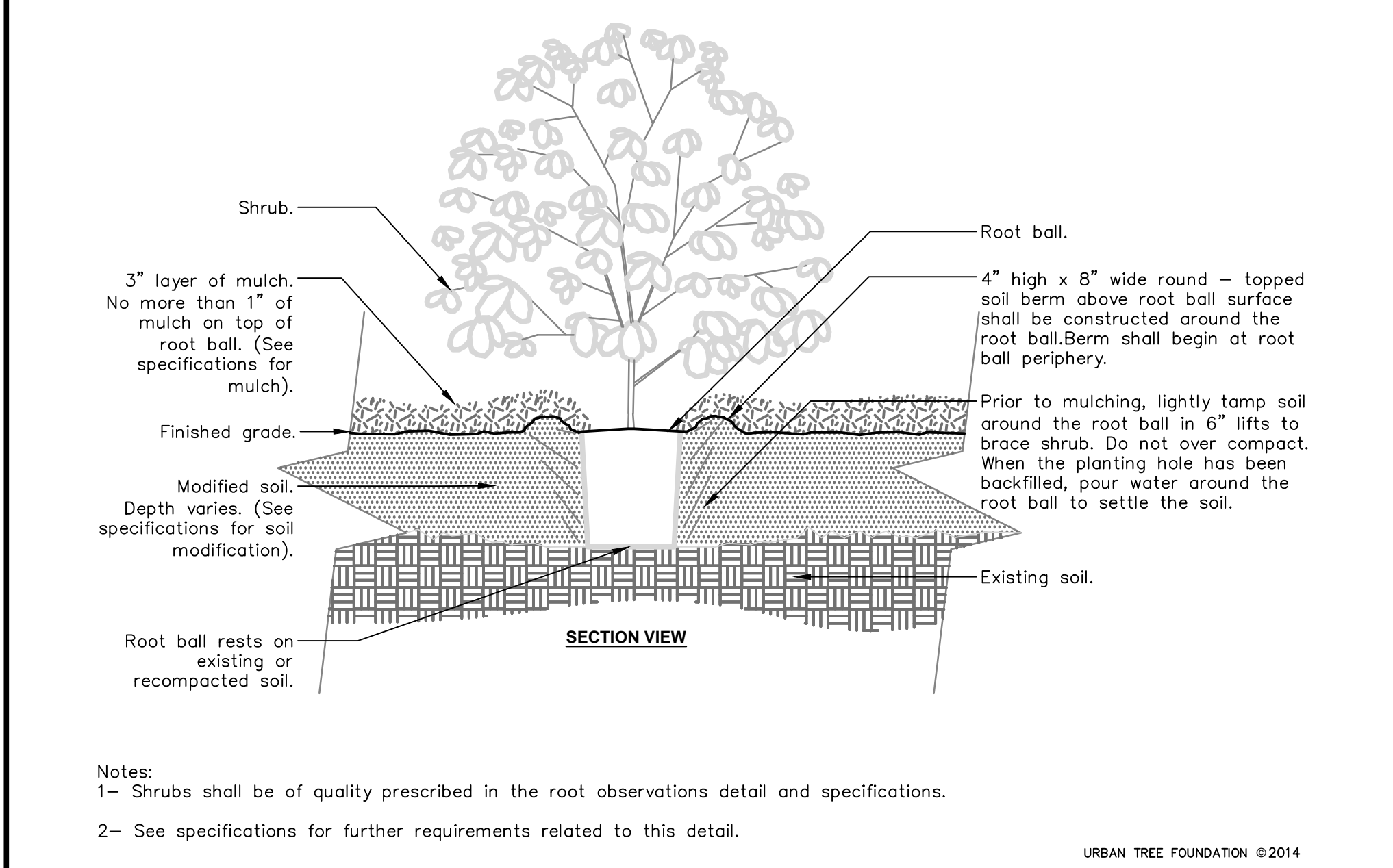
801 TREE PLANTING DETAIL

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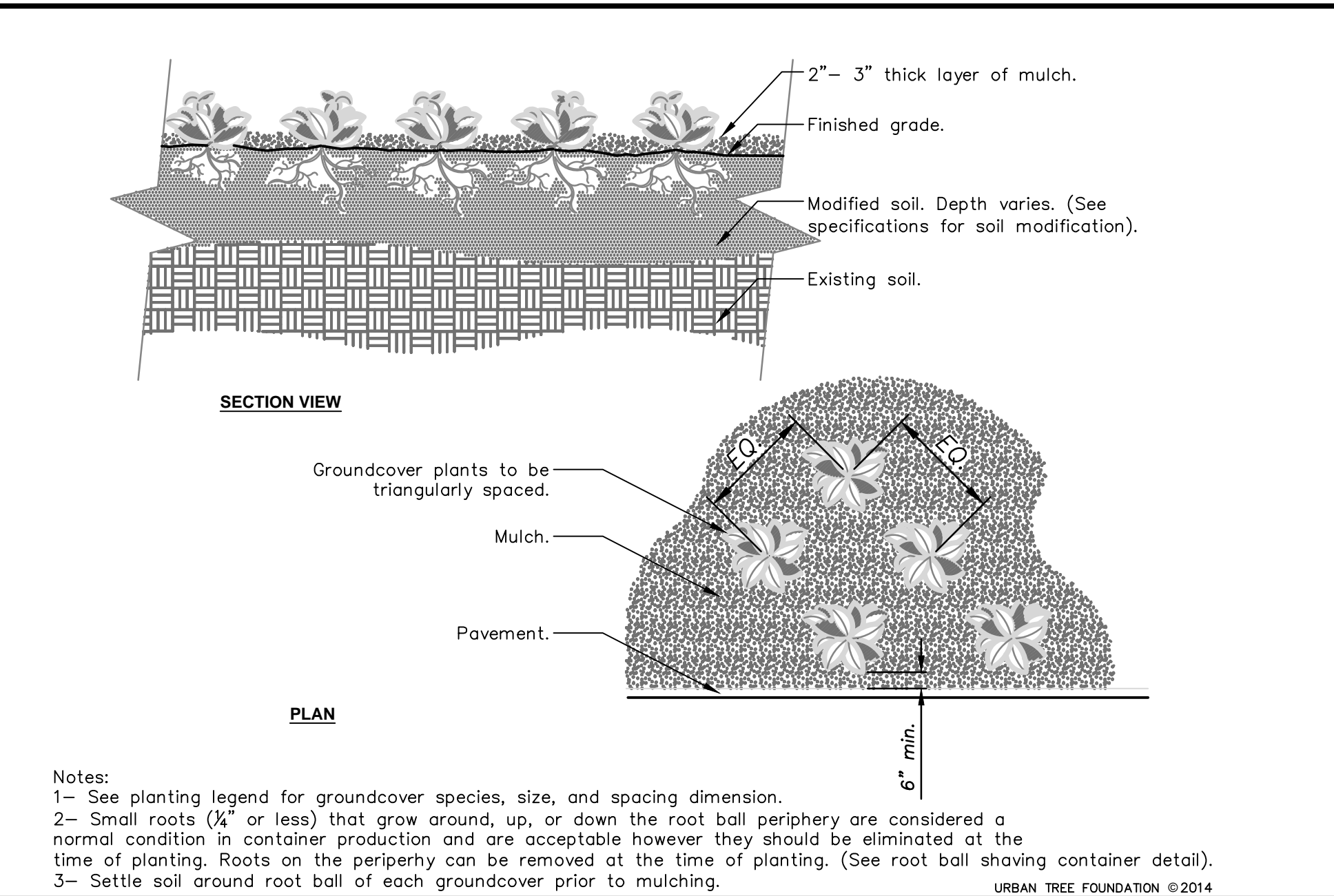
802 TREE STAKING DETAIL

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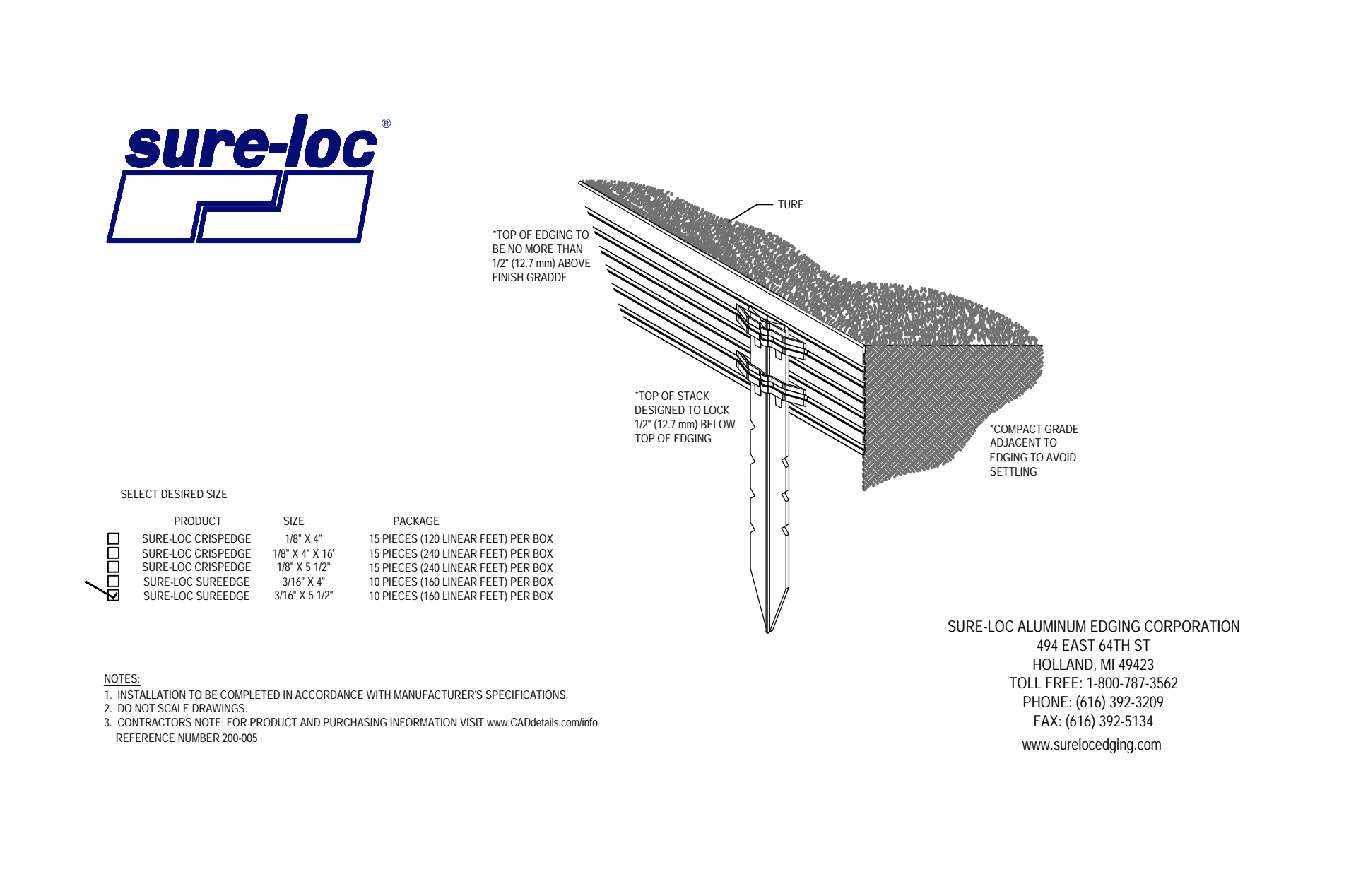
803 SHRUB PLANTING DETAIL

Not to Scale



804 GROUNDCOVER SPACING DETAIL

Not to Scale



805 ALUMINUM LANDSCAPE EDGING DETAIL

Not to Scale



806 WEED BARRIER DETAIL

Not to Scale

PLANTING NOTES

- Location of all existing utilities needs to be done before commencing work.
- The planting plan graphically illustrates overall plant massings. Each plant species massing shall be placed in the field to utilize the greatest coverage of ground plane. The following applies for individual plantings:
 - Creeping groundcover shall be a minimum of 6' from paving edge.
 - All trees shall be a minimum of 3 ft. from paving edge.
 - All plants of the same species shall be equally spaced apart and placed for best aesthetic viewing.
 - All shrubs shall be a minimum of 2 ft. from paved edge.
- Mulch all planting bed areas to a minimum depth of 3". Mulch individual trees to a minimum depth of 2".
- Note: If plants are not labeled - they are existing and shall remain.
- All landscaped areas in right of way shall be sodded and irrigated unless otherwise specified.

MATERIALS:

- Plant material shall be healthy, vigorous, and free of disease and insects as per AAN standards.
- Kind, size and quality of plant material shall conform to American Standard for nursery stock, ANSI-260-2004, or most recent edition.
- Shredded bark mulch installed at trees shall be finely chipped and shredded hardwood chips, consisting of pure wood products and free of all other foreign substances. Pine bark compost mulch installed at planting bed areas shall be free of all other foreign substances.

INSTALLATION:

- All compacted soil within the area to be landscaped shall be removed to a depth of not less than two (2) feet and shall be backfilled with topsoil.
- Prepare planting beds by incorporating an approved composed organic soil into existing soil for all shrub, perennial, and annual planting beds at a minimum depth of 6". Thoroughly mix organic material into the existing soil by roto-tilling or other approved method to a minimum depth of 12".
- Planting of trees, shrubs, and seeded groundcover shall be commenced during either the spring (March 15 - June15) or fall (September 1 - October 15) planting season and with water available for hand irrigation purposes.
- Apply liquid, root stimulator, to all shrubs and groundcovers at rates recommended by manufacturer during first planting watering following installation.
- All planting beds will be prepared with polypropylene landscape fabric, that meets or exceeds the DeWitt Pro5 specification, before plant material is installed. Any product substitution to be submitted by contractor to project manager for approval prior to installation. Rock mulch to be placed over polypropylene landscape fabric at a depth of 2" - 4".
- Landscape fabric should be installed flat with all folds either pinned down with 4" landscape pins, overlap adjoining sheets a minimum of 2 - 4" steel landscape staples to be used to pin down the corners before mulch is installed.
- After plants have been installed, all planting beds shall be treated with dacthal pre-emergent herbicide prior to mulch application.
- Plant pit backfill for trees and shrubs shall be 20% peat or well composted manure and 80% topsoil.
- Trees planted in landscaped planting areas shall be situated a minimum of three (3) feet from any curb.
- Plant material shall be maintained and guaranteed for a period of one year after owner's acceptance of finished job. All dead or damaged plant material shall be replaced at landscape contractor's expense.
- Landscape contractor shall maintain all plant material until final acceptance, at which point the one year guarantee begins.
- All landscape beds shall be level with surrounding hardscape.

SOD NOTES

- All disturbed areas shall be sodded with turf-type tall fescue sod with a minimum of three cultivars.
- All landscaped areas shall receive a minimum 6-inch depth of topsoil compacted to 85% density at optimum moisture content.
- The entire surface to be landscaped should be reasonable smooth and free from stones, roots or other debris.
- Sod shall be machine stripped at a uniform soil thickness of approximately one inch (plus or minus 1/4-inch). The measurement for thickness shall exclude top growth and thatch, and shall be determined at the time of cutting in the field. Precautions shall be taken to prevent drying and heating sod damaged by heat and dry conditions, and sod cut more than 18 hours before being incorporated into the work shall not be used.
- Handling of sod shall be done in a manner that will prevent tearing, breaking, drying and other damage. Protect exposed roots from dehydration. Do not deliver more sod than can be laid within 24 hours.
- Moisten prepared surface immediately prior to laying sod. water thoroughly and allow surface to dry before installing sod, fertilize, harrow or rake fertilizer in the top 1-1/2-inches of topsoil, at a uniform rate.
- Fertilizer shall be 20-10-5 commercial fertilizer of the grade, type, and form specified and shall comply with the rules of the state dept. of agriculture. fertilizer shall be identified according to the percent N.P.K in that order.
- Saturate sod with fine water spray within two hours of planting. During the first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of four inches.

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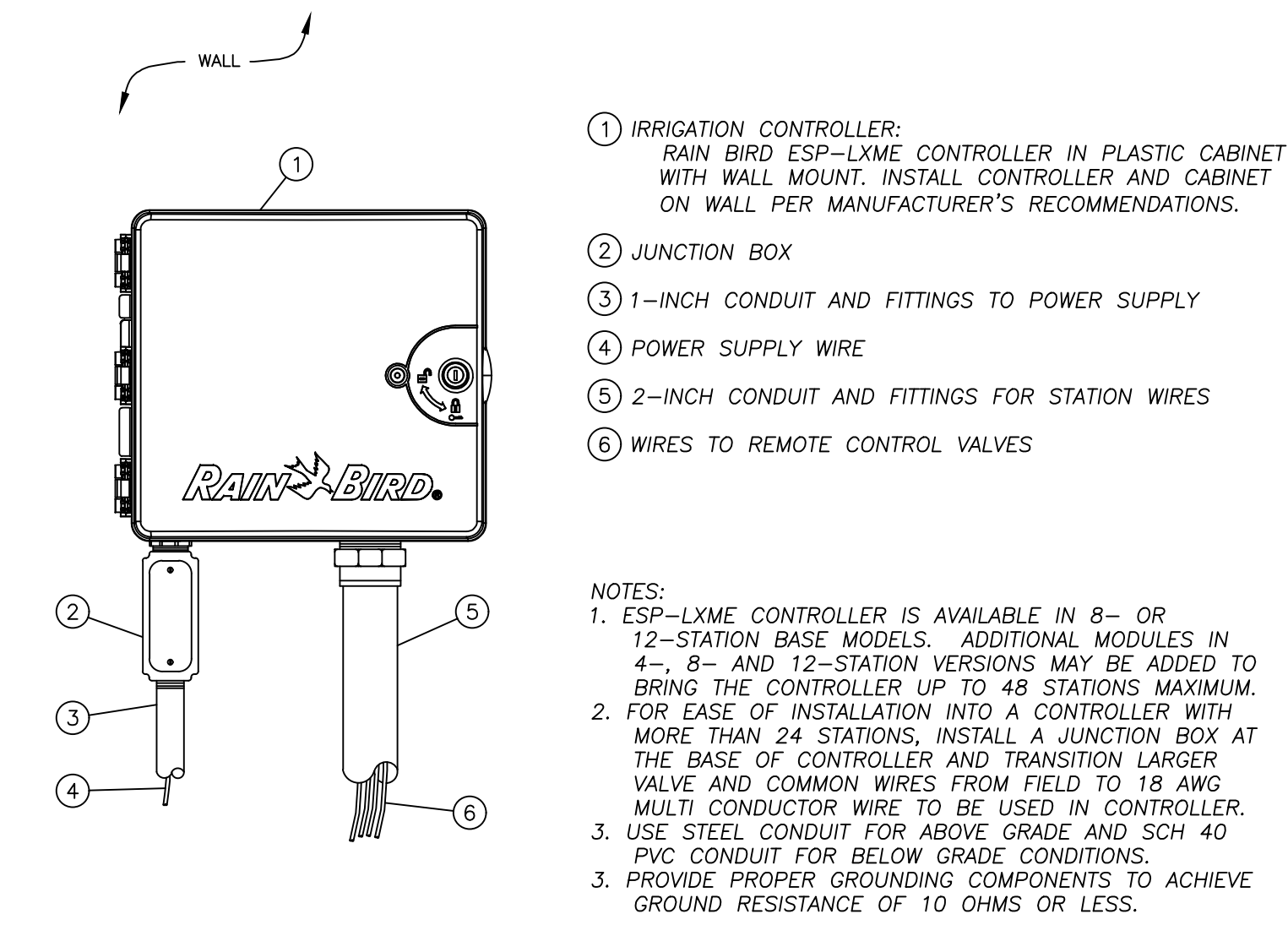
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1950 SE Shenandoah Drive
Lee's Summit, MO 64063

Date 01/13/23
Job Number 3-22030
Drawn By AM
Checked By CW

Revision
Number Date Description

V:\04660-NCA_L5MC_A5C\04-L5MC_L5MC\04-L5MC_L5MC\Sheet\PDF\04660-SNPS-SNPS-DTLS.dwg Layout: IRRIGATION DETAILS 1
Jan 10, 2023 - 9:02am Plotted By: cangelino.meyer



- 1 IRRIGATION CONTROLLER:
RAIN BIRD ESP-LXME CONTROLLER IN PLASTIC CABINET
WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET
ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- 4 POWER SUPPLY WIRE
- 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- 6 WIRES TO REMOTE CONTROL VALVES

NOTES:

1. ESP-LXME CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.

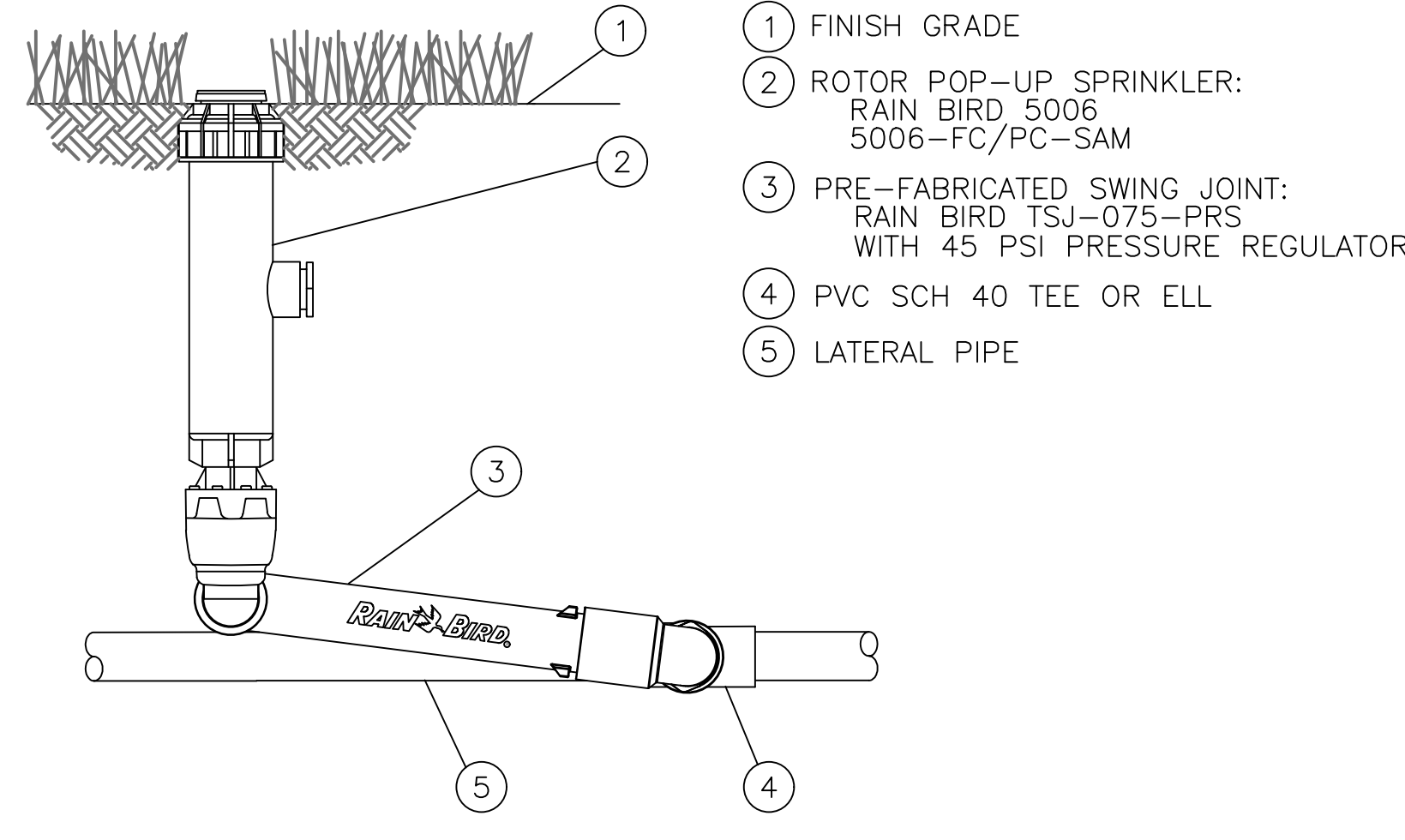
2. FOR CASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.

3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.

3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

901 RAINBIRD ESP-LXME CONTRILLER DETAIL

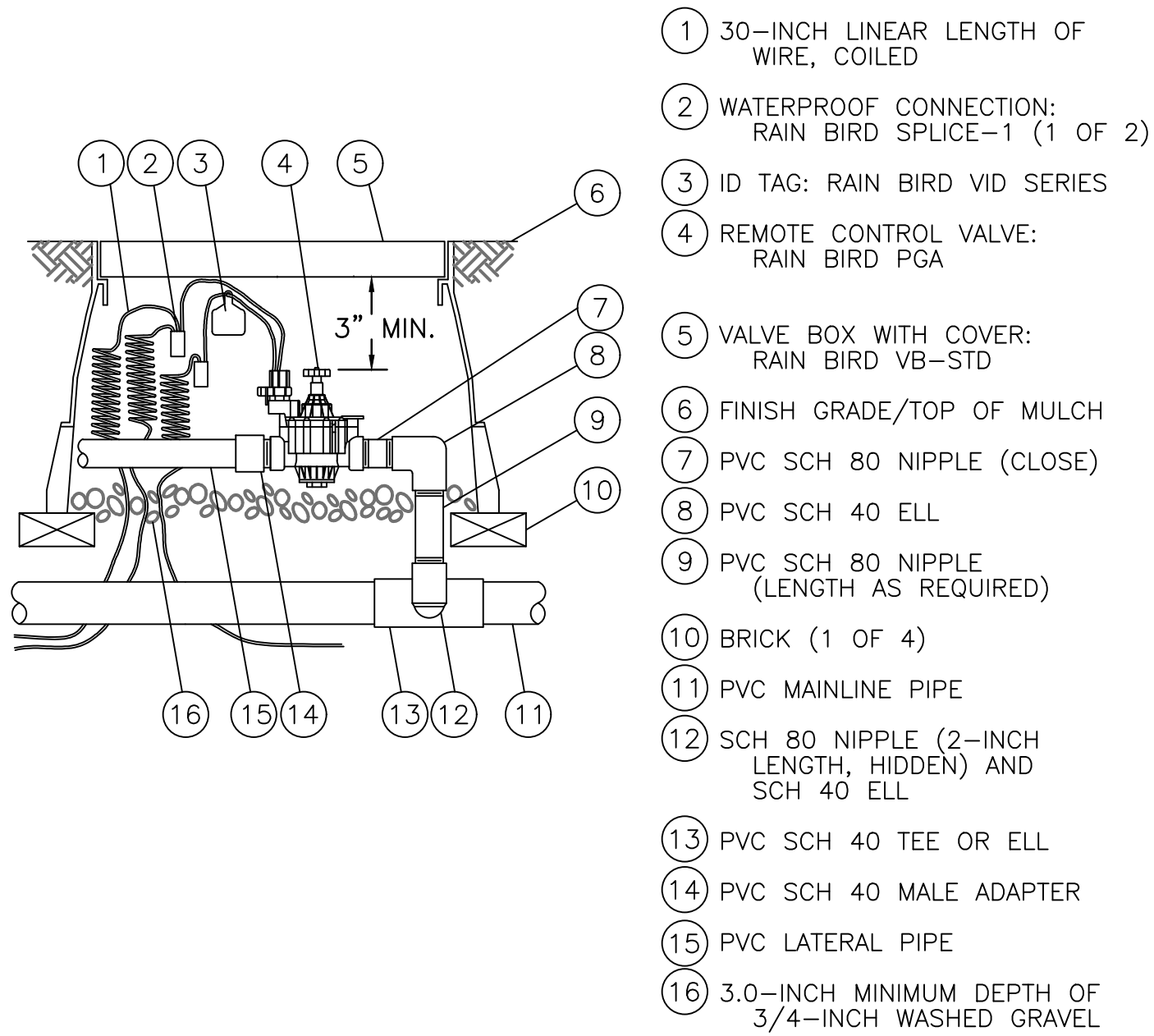
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- 1 FINISH GRADE
- 2 ROTOR POP-UP SPRINKLER:
RAIN BIRD 5006
5006-FC/PC-SAM
- 3 PRE-FABRICATED SWING JOINT:
RAIN BIRD TSJ-075-PRS
WITH 45 PSI PRESSURE REGULATOR
- 4 PVC SCH 40 TEE OR ELL
- 5 LATERAL PIPE

904 RAINBIRD ROTOR POP-UP SPRINKLER DETAIL

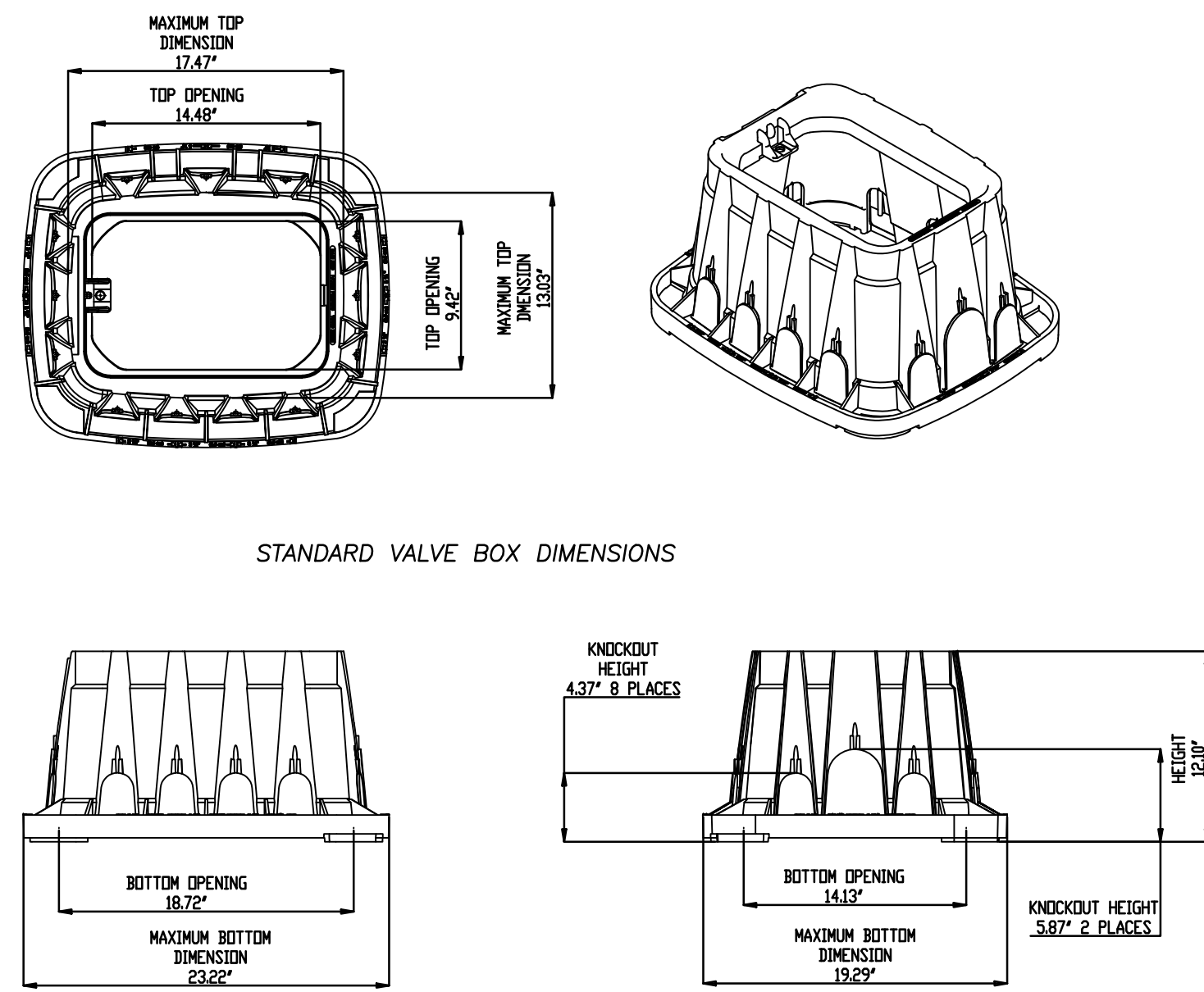
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- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION:
RAIN BIRD SPLICE-1 (1 OF 2)
- 3 ID TAG: RAIN BIRD VID SERIES
- 4 REMOTE CONTROL VALVE:
RAIN BIRD PGA
- 5 VALVE BOX WITH COVER:
RAIN BIRD VB-STD
- 6 FINISH GRADE/TOP OF MULCH
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

902 RAINBIRD REMOTE CONTROL VALVE DETAIL

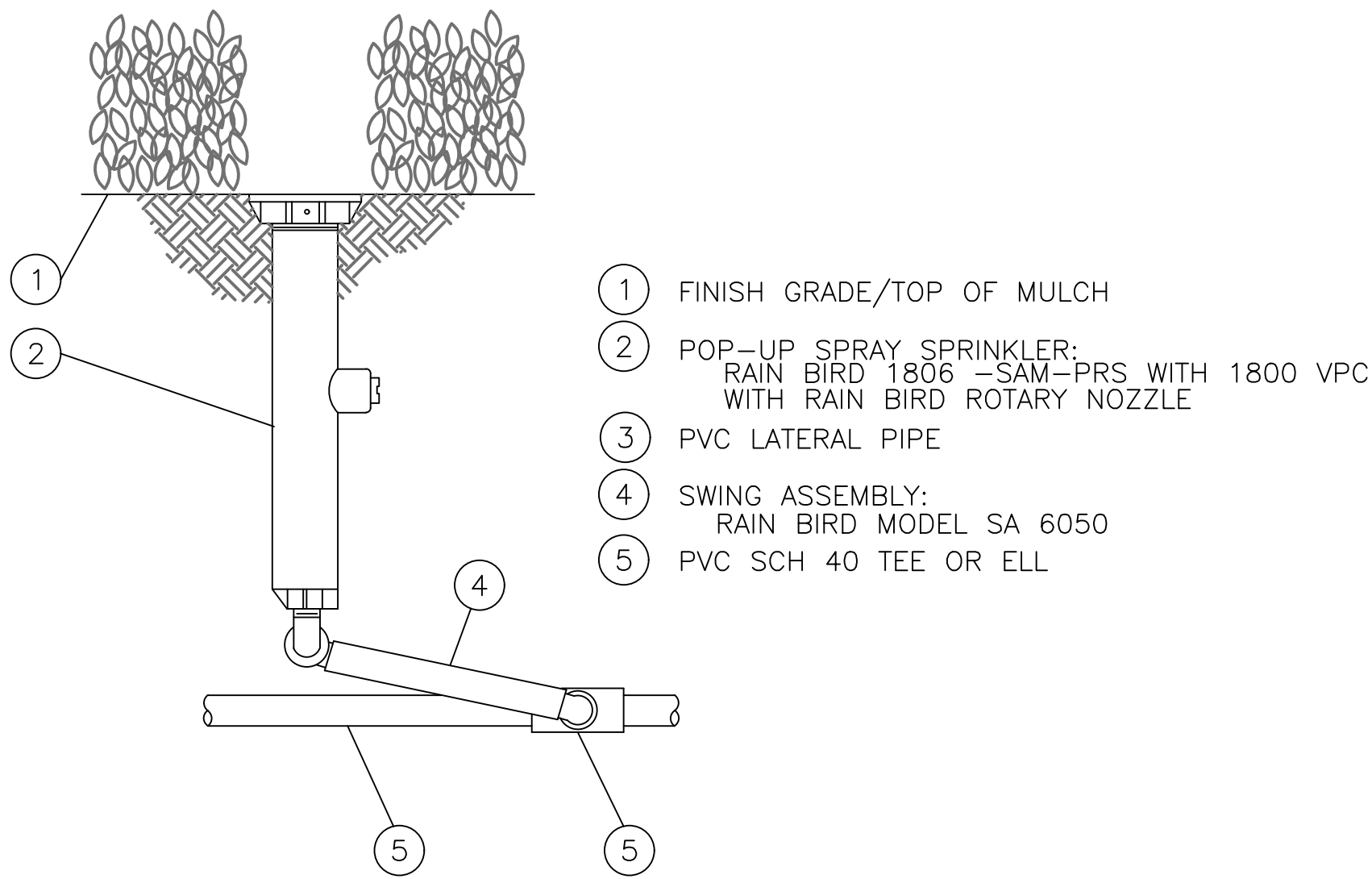
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STANDARD VALVE BOX DIMENSIONS

905 STANDARD VALVE BOX DETAIL

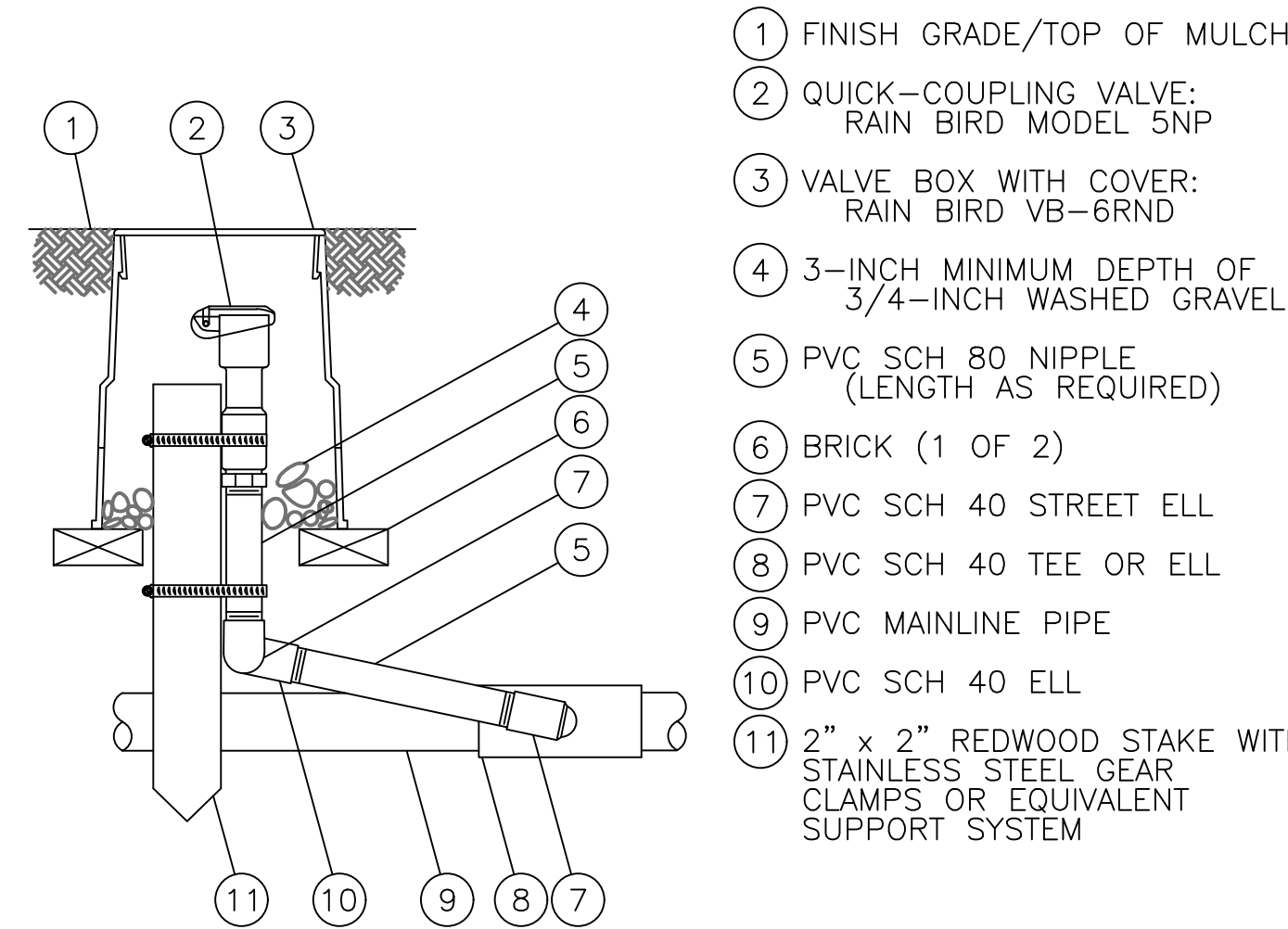
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- 1 FINISH GRADE/TOP OF MULCH
- 2 POP-UP SPRAY SPRINKLER:
RAIN BIRD 1806 -SAM-PRS WITH 1800 VPC
WITH RAIN BIRD ROTARY NOZZLE
- 3 PVC LATERAL PIPE
- 4 SWING ASSEMBLY:
RAIN BIRD MODEL SA 6050
- 5 PVC SCH 40 TEE OR ELL

903 POP-UP SPRINKLER W/SWING PIPE DETAIL

Not to Scale



- 1 FINISH GRADE/TOP OF MULCH
- 2 QUICK-COUPLING VALVE:
RAIN BIRD MODEL 5NP
- 3 VALVE BOX WITH COVER:
RAIN BIRD VB-6RND
- 4 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 5 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 6 BRICK (1 OF 2)
- 7 PVC SCH 40 STREET ELL
- 8 PVC SCH 40 TEE OR ELL
- 9 PVC MAINLINE PIPE
- 10 PVC SCH 40 ELL
- 11 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:

FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLER VALVE INLET SIZE.

906 RAIN BIRD QUICK COUPLER VALVE DETAIL

Not to Scale

IRRIGATION NOTES

- The system design assumes a minimum available static pressure for the irrigation system of 75 psi at the 1 inch meter. Contractor to verify pressure and flow on site prior to construction and report and discrepancies between these assumptions and actual field conditions in writing to the owner's representative.
- Read thoroughly and become familiar with the specifications and installation details for this and related work prior to construction.
- Coordinate location and marking of underground utilities prior to construction. Notify the owner's representative of any conflict with any underground utility.
- Do not proceed with the installation of the irrigation system when it is obvious in the field that obstructions or grade differences existing that might not have been considered in the engineering, or if discrepancies in construction details, legend, notes, or specifications are discovered. Bring all such obstructions or discrepancies to the attention of the owner's representative in writing prior to construction.
- These drawings are diagrammatic. therefore, the following should be noted:
 - A. Avoid conflicts between the irrigation system, planting materials and architectural features. Install irrigation pipe and wiring in landscaped areas whenever possible.
 - B. Use only standard tees and elbow fittings. use of cross type fittings is not permitted.
 - C. Irrigation pipe and valves may be shown outside of the planting area, in the hardscape, or outside of property lines for graphic clarity only. Install all irrigation components within landscapes areas or through sleeving and within the property boundary.
- Provide the following components to the owner's representative prior to the completion of the project.
 - A. Two operating keys for each type of manually operated valves.
 - B. Two of each servicing wrench or tool needed for complete access, adjustment, and repair of all sprinklers and emitters.
- Select nozzles for spray and rotary sprinklers with arcs that provide complete and uniform coverage with minimum overspray for the site conditions. To minimize overspray, install pressure compensating nozzles or pressure compensating screens if uniform lateral pressure cannot be attained with pressure adjustment at the remote control valve. Carefully adjust the radius of the throw and arc of coverage of each spray and rotary sprinkler to provide the best performance.
- The irrigation contractor is responsible for coordinating with the general contractor for the installation of irrigation sleeving. All sleeving will be schedule 40 PVC. All pipe and wire will be installed in separate sleeves at all paved surfaces, sidewalks, driveways, walls, footings, and hardscape areas. All sleeves may not be shown and/or sized in the plans. The general contractor is responsible for coordinating with the irrigation contractor for the installation of all required sleeving, proper sizing, and coordinating installation of sleeving with other trades. Any pipe or wire which passes beneath existing hardscape where sleeving was not installed, requires horizontal boring by the irrigation contractor. Sleeve and conduit sizes shall be a minimum of twice the aggregate diameter of all pipe and wire contained within sleeve or conduit pipe. Minimum sleeve size is 2-inch. Indicate all sleeve locations on "as-built" record drawings.
- Coordinate and install all electrical power to the irrigation control system in accordance with the national electric code and all applicable local electric utility codes.
- Gate valves shall be ported to provide for full flow. Labeled and nominal size of valve opening shall be the same.
- All materials and workmanship shall be true to type, form, finish and of the highest standards of the trade. Damaged or inferior materials shall be removed from the site without delay.
- Install pressure regulating module for all drip valve assemblies, set discharge pressure to 35 psi.
- Install irrigation pipe and components a minimum of 8 feet from tree root balls. Pipe routings shown on drawings are diagrammatic.
- Provide #12-1 AWG bare copper tracing wire along the entire mainline routing. Provide 24 inch coil of tracing wire in each valve box along mainline routing.
- Contractor shall furnish and install material and equipment pertaining to the irrigation system herein specified or shown on the drawings. This shall include all items necessary to complete installation.
- Irrigation contractor to cap all flush ends hand tight prior to backfill.
- Irrigation contractor shall coordinate work with planting plans to avoid conflicting locations between piping and plant pits.
- All materials shall be installed as detailed in the plans. If the contract drawings and/or specifications do not thoroughly describe the method or techniques to be used, then the contractor shall install as per manufacturers specifications. If a contradiction occurs, notify the landscape architect immediately.
- Irrigation contractor to use Teflon tape on all threaded joints.
- No pipes shall be installed parallel and directly over another line.
- Brand each valve box with 1" lettering showing zone number and controller letter. This stamp is to match the zone and controller associates with the valve's operation.
- Contractor shall perform the following:
 - A. Visit site and verify existing grades, construction and conditions.
 - B. Notify landscape architect of discrepancies between plan and field conditions.
 - C. Restore contractor damaged existing work to the satisfaction of the engineer or landscape architect without cost to the owner.
 - D. Be satisfied that the plan can be constructed, functional and complete.
- All equipment shall be maintained while under construction. Maintenance includes: water scheduling, replacement of defective or damaged equipment, adjustment and re-adjustment of heads and other equipment.
- Contractor to ensure the following:
 - A. Lines and valves are to be placed within planting beds and project limits. These plans are schematic. contractor shall size all pipe.
 - B. 100% coverage of irrigation system to all plants regardless of size or type and shall confirm all non-irrigated areas prior to submitting a bid.
- Install two (2) spare #14-1 AWG control wires for each unused station and one spare #12-1 AWG common wire from the respective controller to this location for use as a spare wires in each remote control valve box along the entire wire routing for this controller. Seal wire ends water tight and contain within valve box at this location.
- Should field adjustments be made to the site plan, irrigation contractor shall make all necessary adjustments to the irrigation system to ensure proper functionality. Landscape architect is to be notified of any and all changes made to the irrigation system, prior to installation of said changes.

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EX-20130007005
2-10-23

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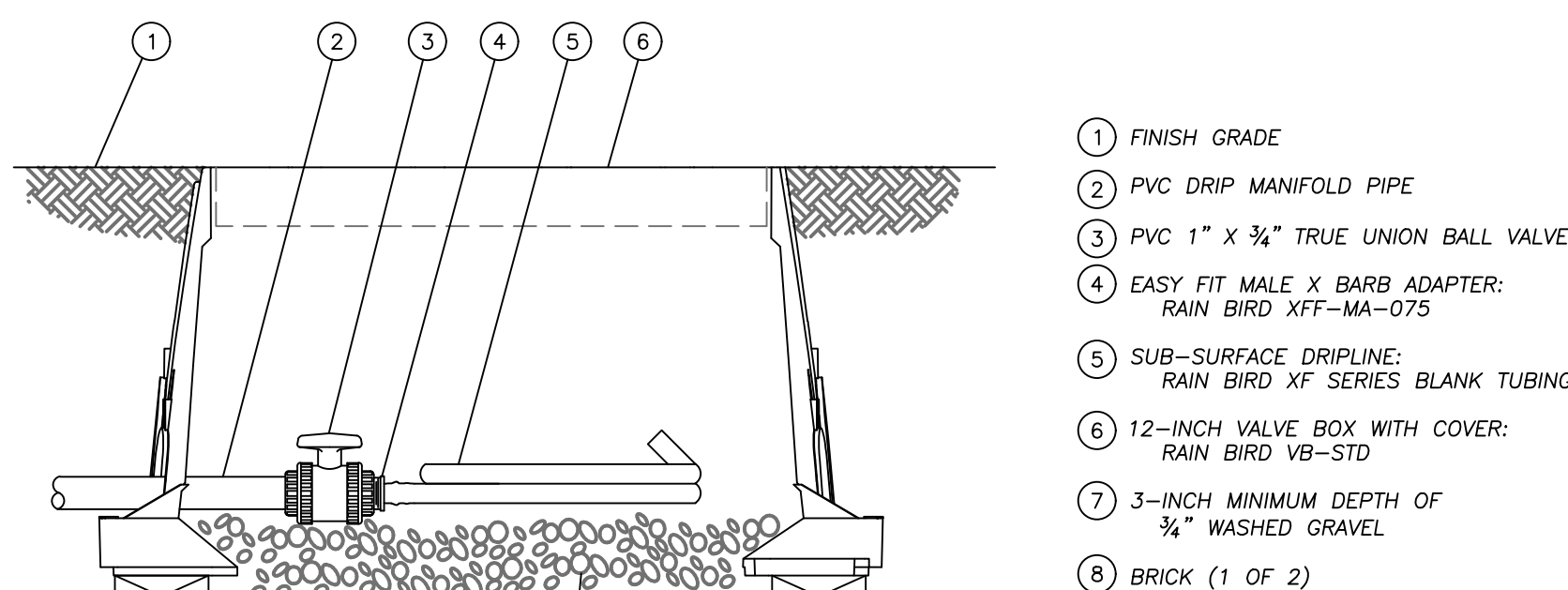
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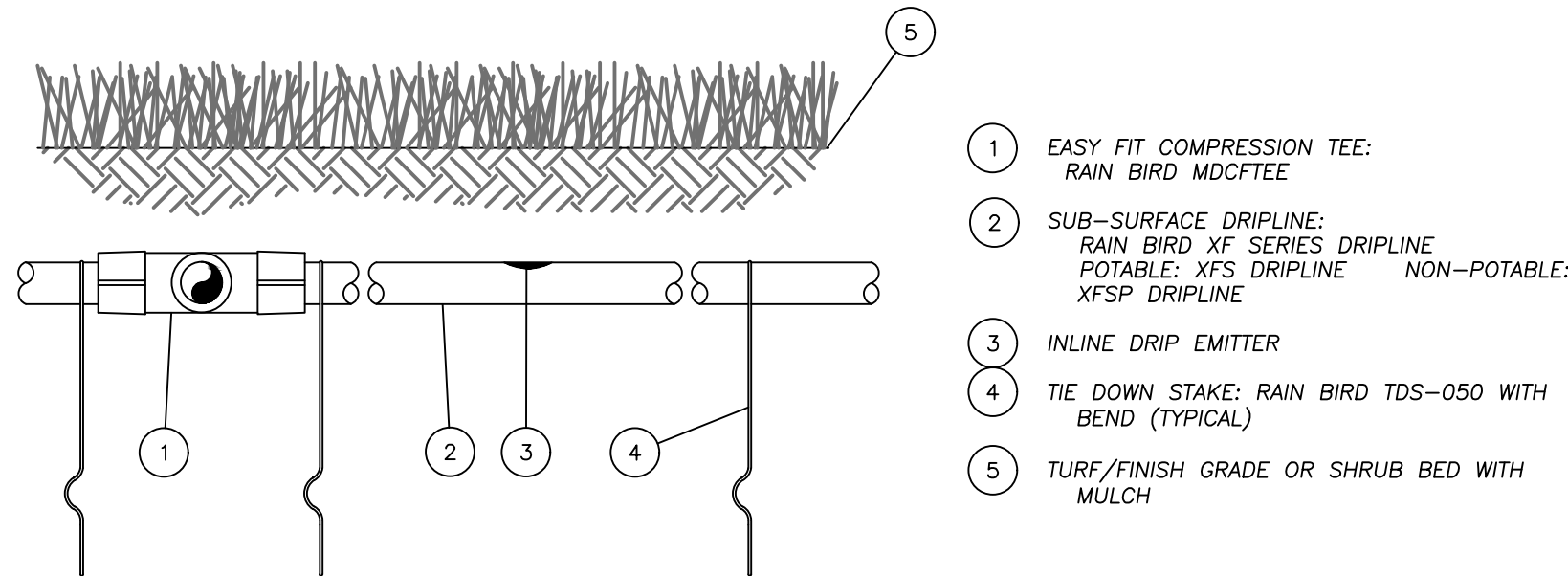
Revision
NumberDateDescription

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IRRIGATION
DETAILS 1



DRIPLINE FLUSH POINT W/BALL VALVE DETAIL



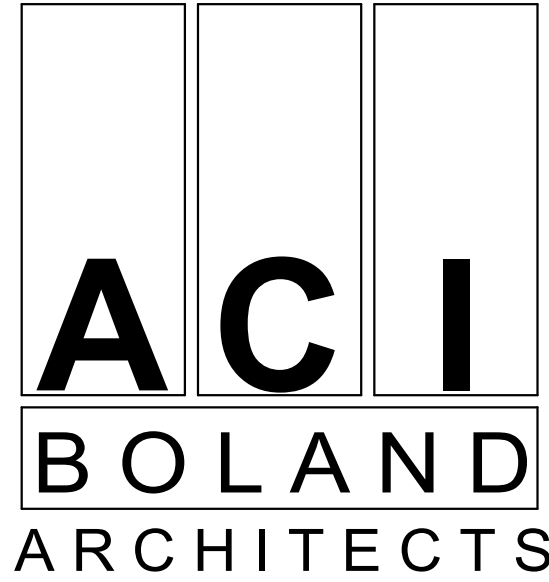
909 XFS SUB-SURFACE DRIPLINE BURIAL DETAIL

EXTERIOR FINISH LEGEND

MARK	MATERIAL	MANUFACTURER	COLOR/PATTERN	DIMENSION
ES-1	EIFS SYSTEM	AS SPECIFIED	TBD	2" & 3"
FB-1	TAN BRICK	GLEN GERY	PEARL RIVER IRONSPOT	2 1/4" x 7 5/8" x 3 5/8"
FB-2	DARK BRICK	ENDICOTT	MANGANESE IRONSPOT, SMOOTH	2 1/4" x 7 5/8" x 3 5/8"
MP-1	METAL PANEL	FIRESTONE	CITYSCAPE	VARIES
MP-2	METAL PANEL	KNOTWOOD	WALNUT	VARIES
MP-3	METAL PANEL	BERRIDGE	HR-16, GRAY ZINC	VARIES



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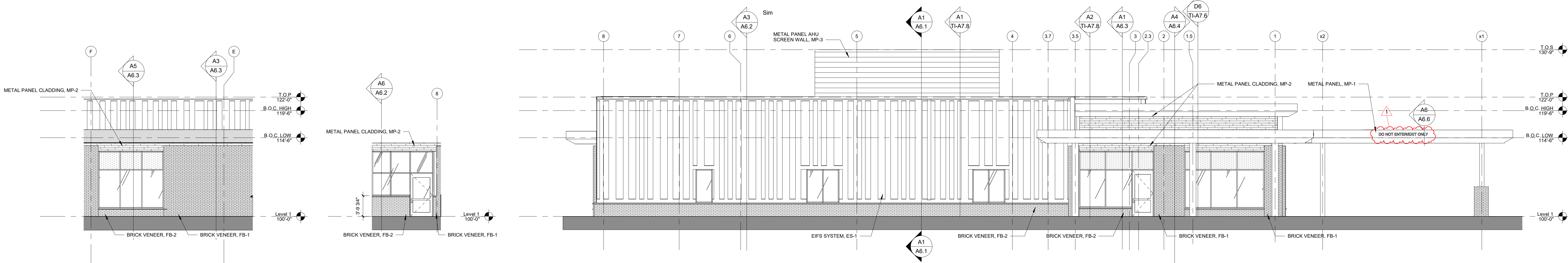
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Date 02/08/23
Job Number 3-22030
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Revision	Date	Description
1	2/14/23	Addendum #1

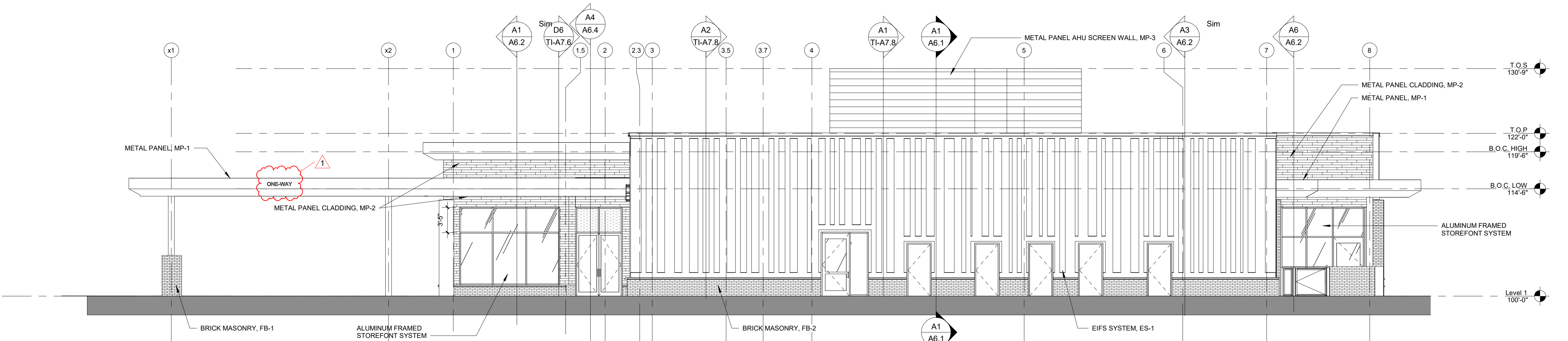
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EXTERIOR ELEVATIONS

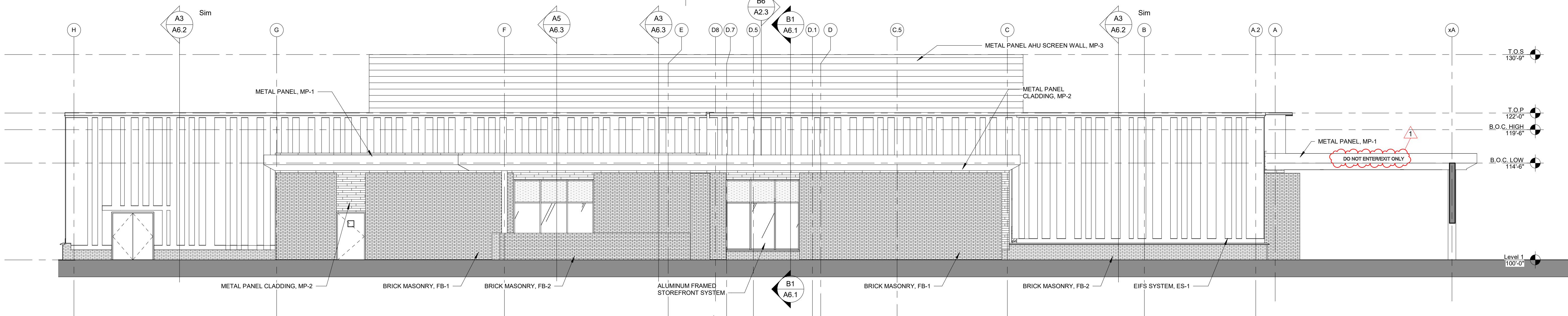


D4 STAFF COURTYARD - WEST
1/8" = 1'-0"

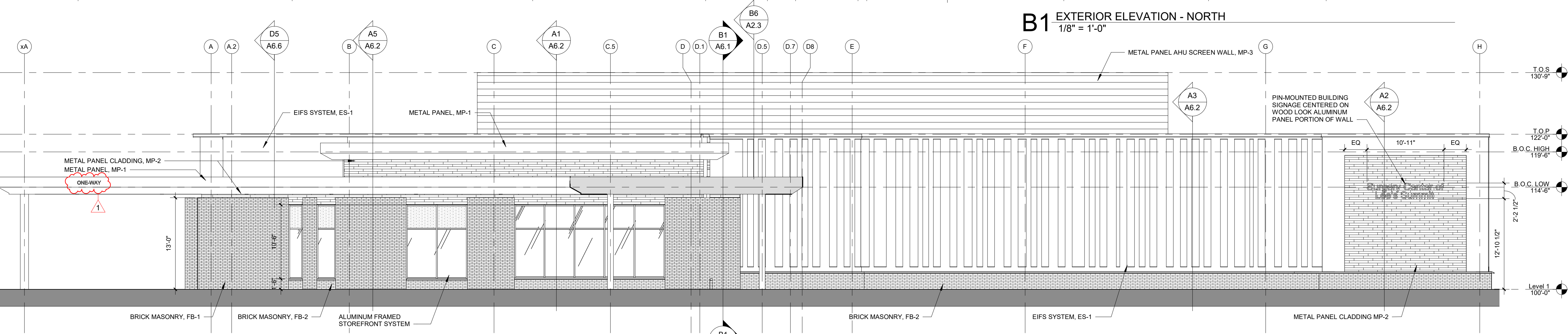
D1 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



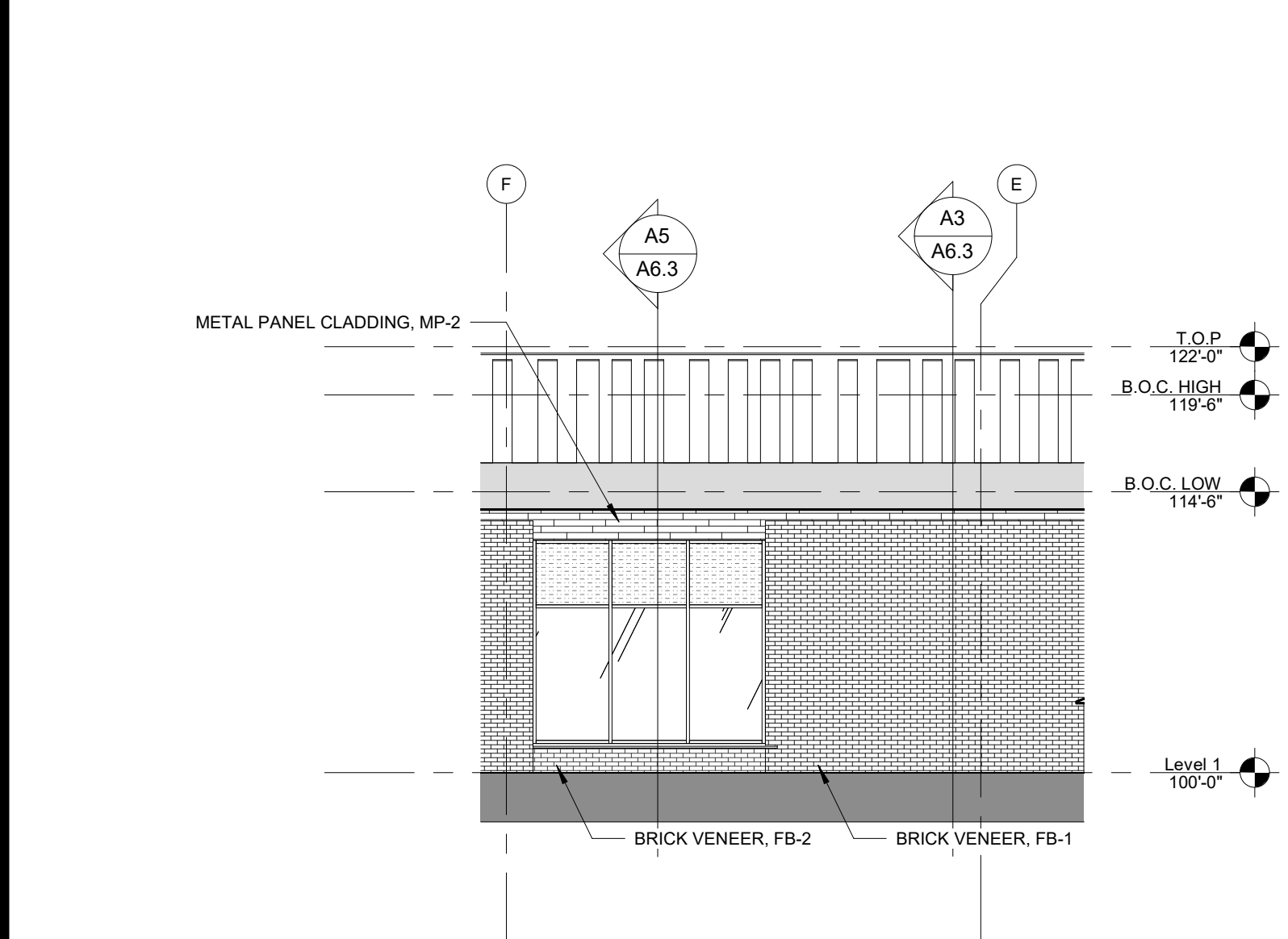
C1 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



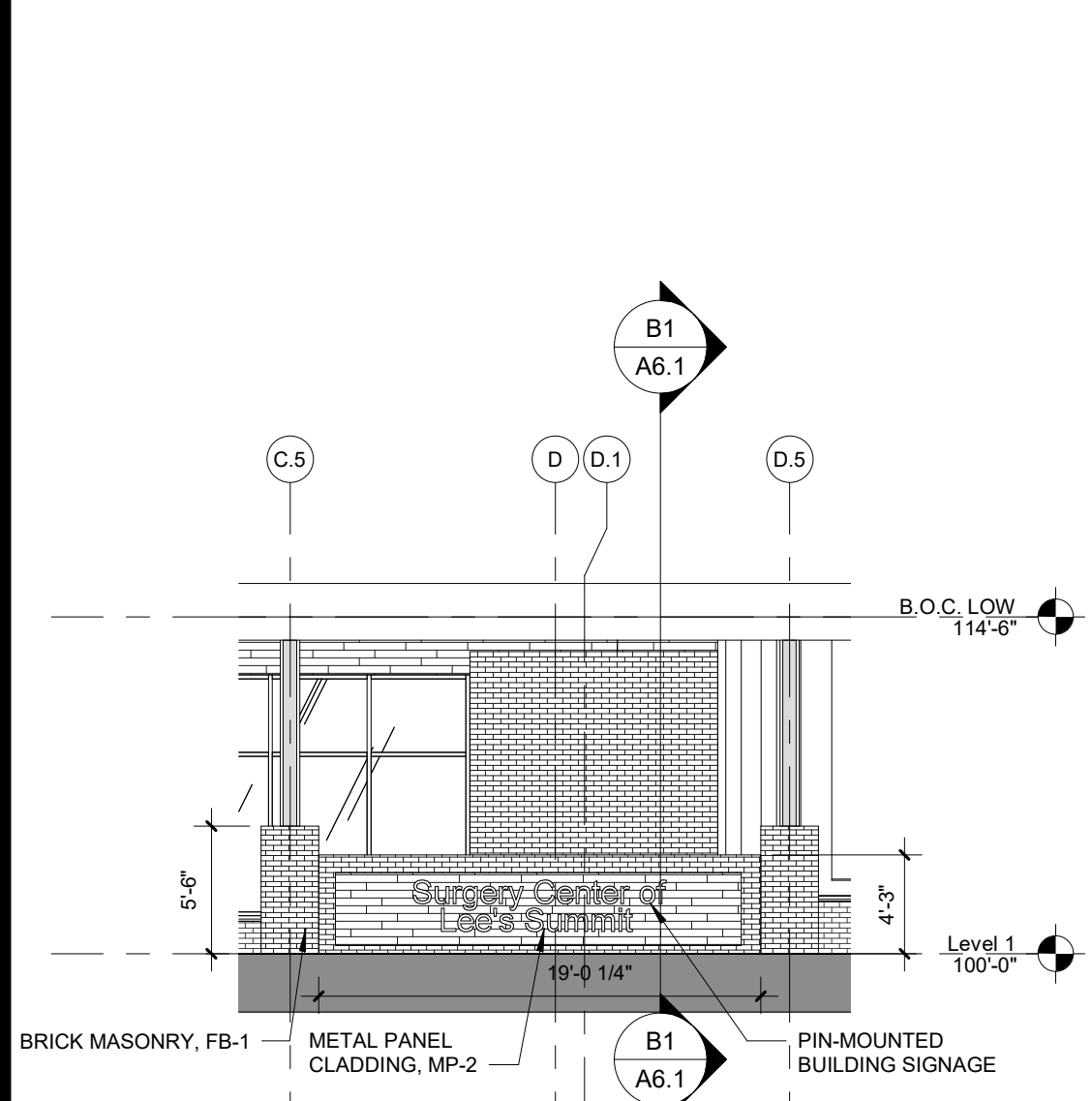
B1 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



A1 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



D5 STAFF COURTYARD SOUTH
1/8" = 1'-0"



A6 CANOPY SIGN ELEVATION
1/8" = 1'-0"