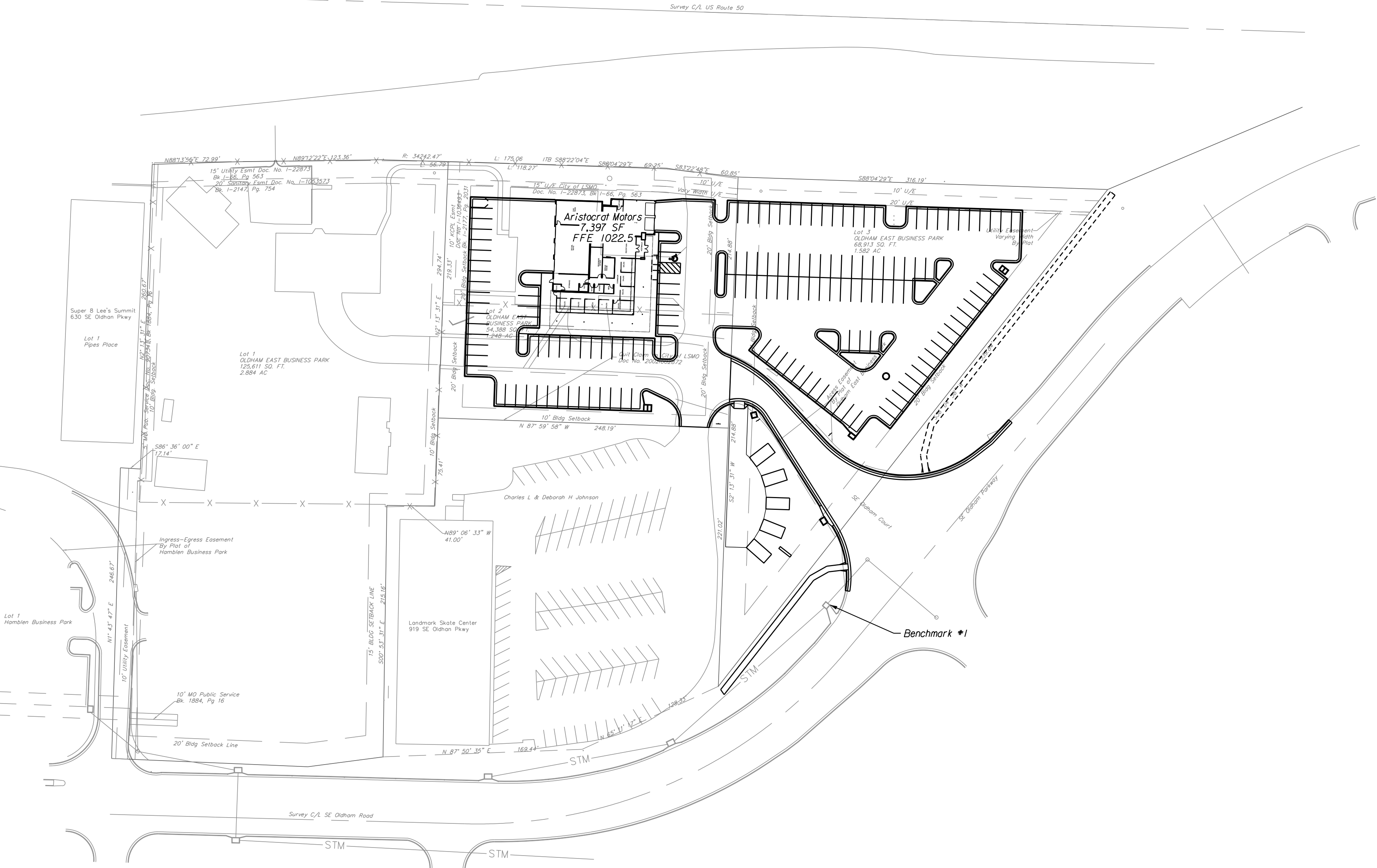
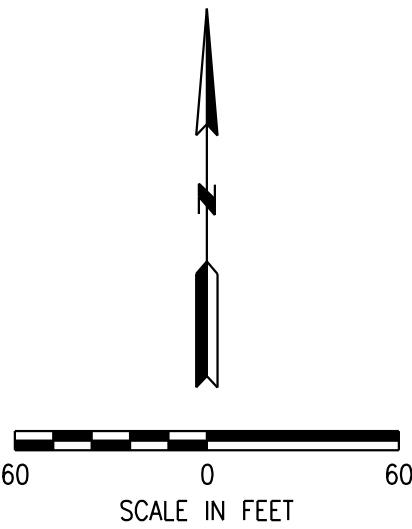


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- 1 COVER SHEET
- 2 DEMOLITION PLAN
- 3 DIMENSION PLAN
- 4 GRADING PLAN
- 5 ADA RAMP DETAIL
- 6 STORM SEWER PLAN
- 7 DRAINAGE AREA MAP
- 8 UTILITY PLAN
- 9 EROSION CONTROL PLAN
- 10-14 DETAIL SHEETS

APPENDIX:
ARCHITECTURAL FLOORPLANS AND ELEVATIONS
LANDSCAPING PLANS
LIGHTING PLANS AND SPECS
ADS STORM TECH DETENTION PLANS

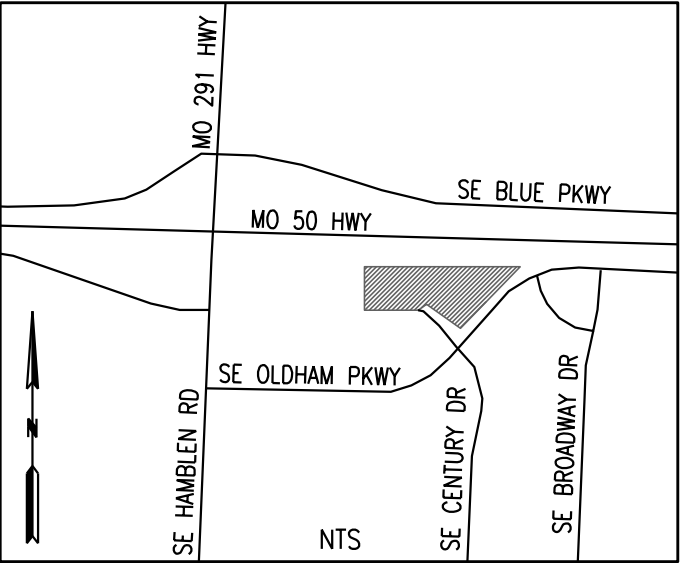
ARISTOCRAT MOTORS
LOTS 2 AND 3
OLDHAM EAST BUSINESS PARK
LEE'S SUMMIT - JACKSON COUNTY MO
FINAL DEVELOPMENT PLAN



UTILITIES

- City of Lee's Summit
Department of Public Works
220 SE Green
Lee's Summit, Mo.
816-969-1800
- KCPL
130 SE Hamblen Road
Lee's Summit, Mo.
816-347-4320
- Missouri Gas Energy
3025 SE Clover Road
Lee's Summit, Mo.
816-537-4681
- AT&T
215 N. Spring
Independence, Mo.
816-325-5610
- Time Warner
6550 Winchester Avenue
Kansas City, Mo.
913-643-1901
- Missouri One Call
1-800-344-7483

VICINITY MAP



PREPARED FOR
ARISTOCRAT MOTORS
6102 West 65th Street
Merriam, KS 66203
Attn: Kevin Killilea

PROJECT BENCHMARK

#1 SE Corner of Existing Field Inlet
N: 995728.08
E: 2828733.64
Elev: 1013.12

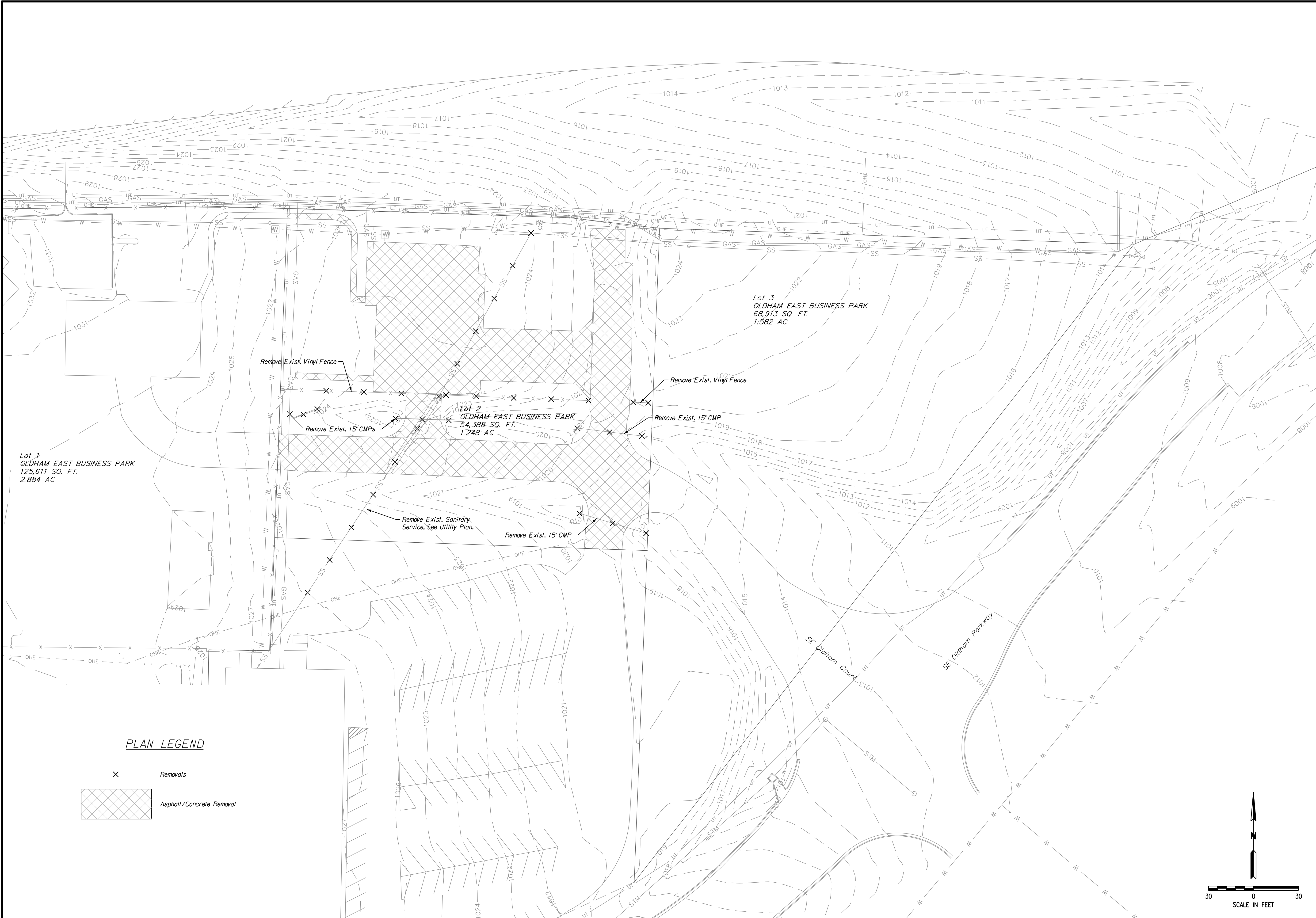
DATE	REVISION	NO.	BY	CHK/APP
9/30/19	Addressed City Comment Letter dated 9/23/19	4	RAM	RKS
9/3/19	Addressed bid questions in regards to ME-201	3	RAM	RKS
7/16/19	Addressed City Comment Letter dated 6/28/19	2	RAM	RKS
6/14/19	PDP Submittal	1	RAM	RKS



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COVER SHEET	ARISTOCRAT MOTORS
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	
X-REF NO. XXX	
DRAWING NO. XXX	
DATE September 2019	
JOB NO. 19.006.01	
1	14

9/27/2019
FDP-DemoPlan.dgn



DEMOLITION PLAN	
ARISTOCRAT MOTORS	
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	
X-REF NO. XXX	
DRAWING NO. XXX	
DATE September 2019	
JOB NO. 19.006.01	
2	SHEET OF 14

9/30/19

11010 Haskell St, Ste 210 Kansas City, KS 66109 816-759-2285 CORPORATE LICENSE NO. E2010005873

DATE	REVISION	NO.	BY	CHK/APP
9/30/19	Addressed City Comment Letter dated 9/23/19	4	RAM	RNS
9/3/19	Addressed bid questions in regards to ME-201	3	RAM	RNS
7/16/19	Addressed City Comment Letter dated 6/28/19	2	RAM	RNS
6/14/19	PDP Submittal	1	RAM	RNS

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REV.

GENERAL NOTES:

- The recorded plat, Oldham East Business Park was used in preparation of this Final Development Plan.
- Cross Access easements for common driveways and adjoining parking lots will be provided on the Final Plat.
- There is no visible evidence of abandoned oil or gas wells located within the plot boundary, as identified in "Environmental Impact Study of Abandoned Oil and Gas Wells in Lee's Summit, Missouri", Edward Alton May, Jr., P.E., 1995.
- Mechanical units shall be totally screened from view in accordance with Article 8 of the UDO.
- All materials, colors, and architecture of buildings to meet the requirements of Article 8 of the current UDO.
- Contractor to locate and relocate any existing utilities that may conflict with construction as necessary.
- The development shall meet the requirements of the Unified Development Ordinance, Design and Construction Manual, Access Management Code and other ordinance for development including, but not limited to, parking setbacks and spaces, ADA requirements, site lighting, landscaping and screening, utilities, and zoning requirements.
- Every ADA accessible parking space shall be identified by a sign, mounted on a pole or other structure, located 60 inches above grade, measured from the bottom of the sign, and the head of the parking space.
- All identifying signs shall be 12 inches wide by 18 inches in height and meet the requirement set forth in the Manual on Uniform Traffic Control Devices, as referenced in the Lee's Summit General Code of Ordinances.
- All landscaping to meet Article 8 of the UDO.
- There shall be two way traffic movement.
- See architectural submittal for all building dimensions, monument signs and lighting details.
- Parking lot screening to meet UDO.
- See Lighting Plans and Specs for all information related to parking lot lighting.
- All curb to be CG-I curb, unless otherwise noted.
- Easements are provided for ingress/egress as shown and per the recorded plat.
- Parking Spaces shall be 9' x 19' (perimeter w/ curb), 9' x 19' (interior center), and 9' x 20' (interior w/ no curb).
- Watershed: East Fork-Little Blue River (to Prairie Lee Lake)
- A minor plat will be prepared to combine the two lots into 1 lot. A private easement for the sanitary sewer service for the Landmark Skate Center building will be dedicated on the plat.
- All dimensions are to back of curb unless otherwise noted.
- All curb radii within parking lot are 5' unless otherwise noted.

STREETS:

- Improvements to the main entrance off of SE Oldham Parkway shall consist of curb & gutter addition and sidewalk construction to the West side of entrance. In regards to sidewalk to the East side of entrance, payment shall be made to the City of Lee's Summit for construction cost in lieu of actual construction of sidewalk.

BUILDING LINES:

- Minimum required building line is 20 feet from all property lines.

PARKING SETBACK LINES:

- Minimum required parking setback line is 20 feet on 50 Hwy & SE Oldham Pkwy frontages, 6 feet is required from all other property lines.

SIDEWALKS:

- Interior sidewalks are 5' as shown. Sidewalks to be 5' PCC on 4' of compacted gravel.

PROJECT DATA:

The site is Zoned CS
Project Area - 2.83 acres
Number of Lots - 2

PHASING:

- The project infrastructure as shown shall be completed in 1 phase.

PARKING:

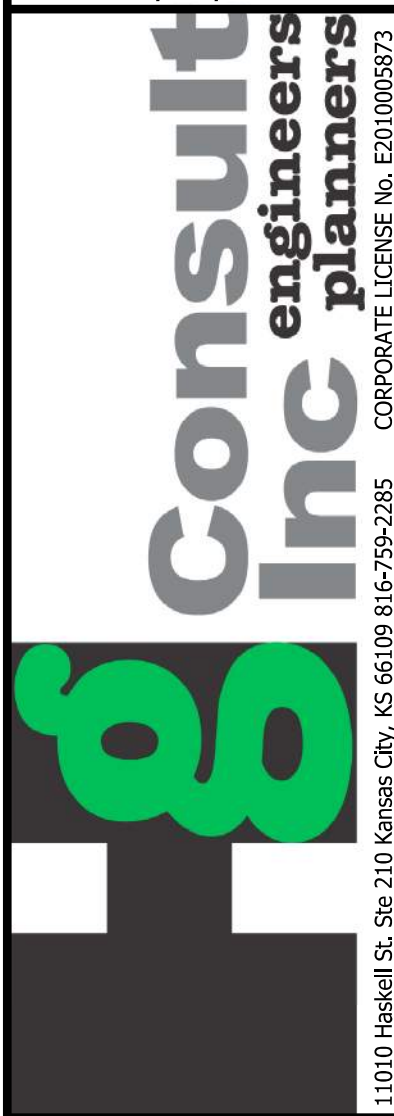
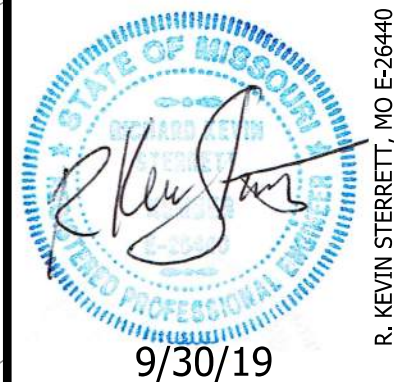
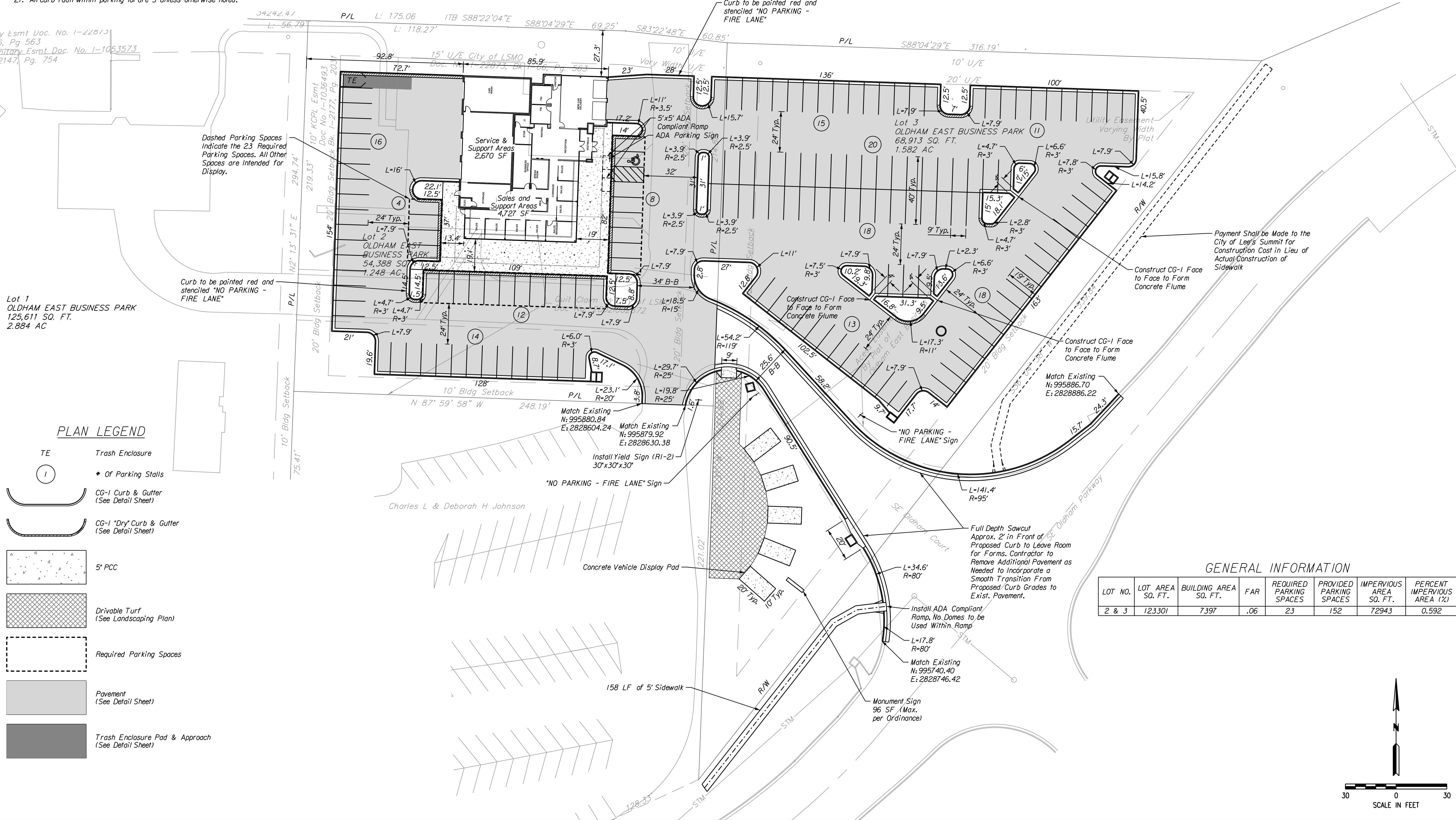
- Parking Spaces Required/Provided - 23/23 (149 Total)
Garage - 3/bay x 4 bays = 12
Sales Area - 2/1000sf - 4.7 x 2 = 9.4 (10)
Outside Display Area - 1/2500sf, 5 display pads at 200sf each - 1000sf = 0.4 (1)
ADA Spaces Required/Provided - 1/1

SITE ADDRESS:

704 SE Oldham Court, Lee's Summit, MO 64081

City Esmt Doc. No. 1-22813
-66, Pg. 563
Sanitary Esmt Doc. No. 1-1053573
1-2147, Pg. 754

US 50 HWY



DIMENSION PLAN		ARISTOCRAT MOTORS		LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	
X-REF NO.		XXX		DATE	
DRAWING NO.		XXX		September 2019	
JOB NO.		19.006.01		SHEET OF	
3		14		REV.	

GENERAL NOTES:

1. See detail sheet for pavement section and details.
2. All slopes to be 3:1 max.
3. See ADA Ramp Detail sheet for elevations.

3' Wide, 3:1 Side Slopes,
Height Varies (18" Min.)

SECTION A-A

4' Wide, 3:1 Side
Slopes, Height
Varies (18" Min.)

SECTION B-B

Grade 630' Berm/Swale
to Divert Off-Site Water
South to Oldham
Parkway, 4' Wide, 1%
Slope, 3:1 Side Slopes

Begin Berm
Full Height (2.5')
N: 996084.25
E: 2828664.45

Grade 417' Berm for
Parking Lot Screening, See
Sections A-A and B-B

Construction Limits,
(Typ.)

End Berm
Full Height (2.0')
N: 995922.15
E: 2828828.33

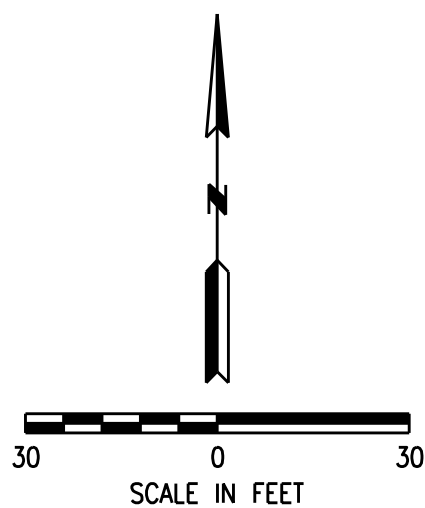
Full Depth Sawcut
Approx. 2' in Front of Proposed Curb to
Leave Room for Forms. Contractor to
Remove Additional Pavement as Needed to
Incorporate a Smooth Transition From
Proposed Curb Grades to Exist. Pavement.

2' Wide, 2.5' Tall, 3:1
Side Slopes

1.5' Wide, 2.0' Tall, 3:1
Side Slopes

PLAN LEGEND

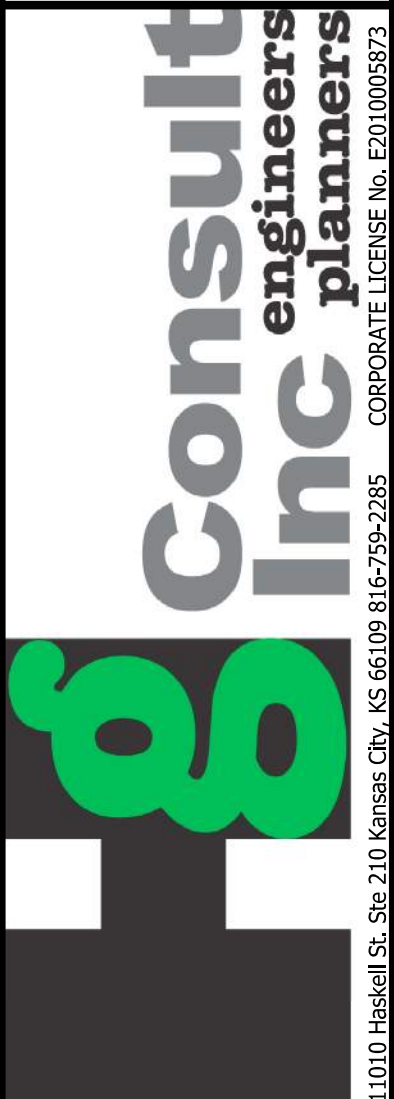
TC	Spot Elevations	Proposed Contour	1020
PV	Top Of Pavement	Existing Minor Contour	
EG	Existing Grade	Existing Major Contour	
PG	Proposed Grade	Construction Limits	
SW	Sidewalk		
HP	High Point		
LP	Low Point		



DATE	REVISION	NO.	BY	CA/APP
9/30/19		4	RAM	RNS
9/3/19		3	RAM	RNS
7/16/19		2	RAM	RNS
6/14/19		1	RAM	RNS



9/30/19



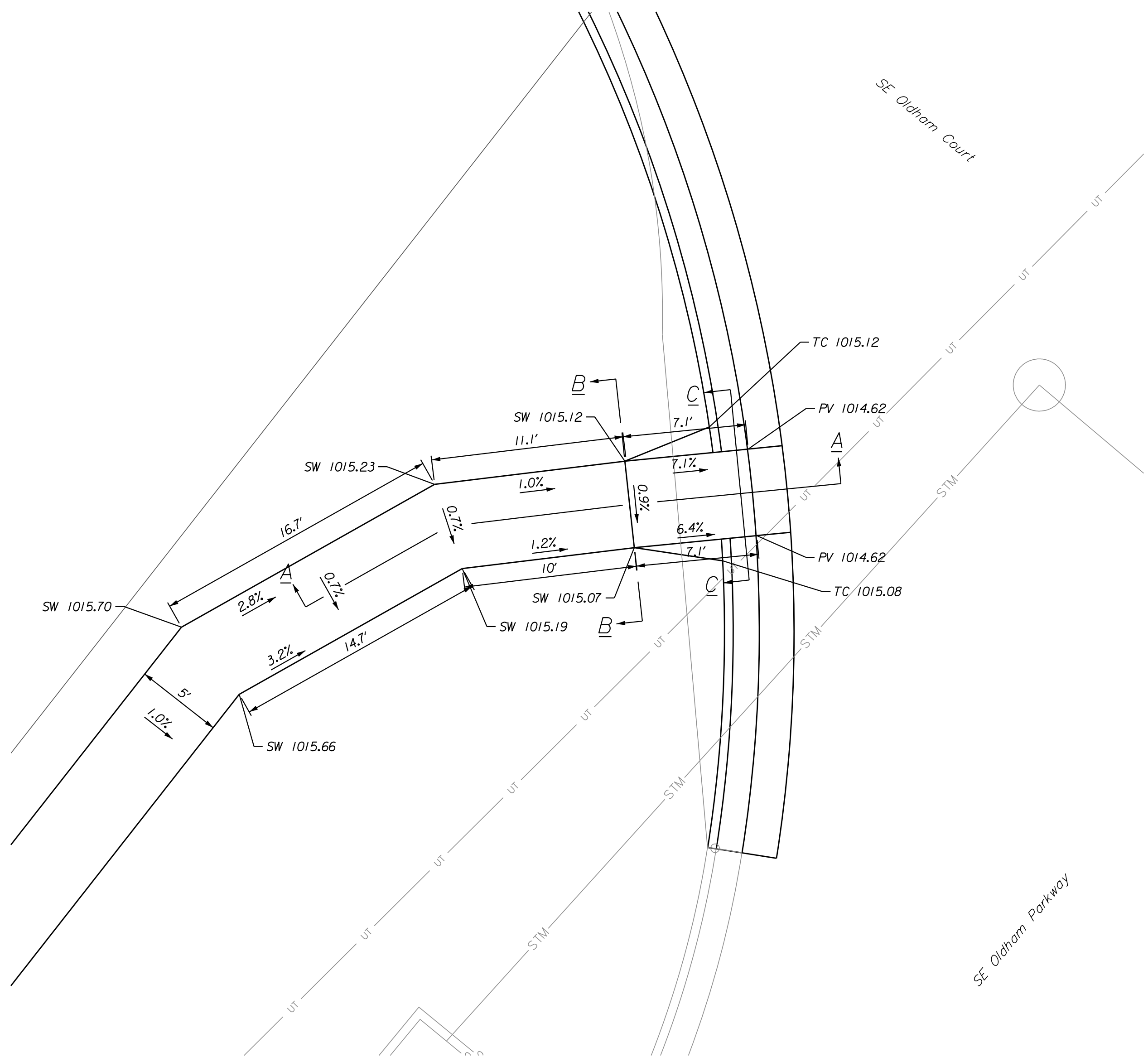
GRADING PLAN

ARISTOCRAT MOTORS

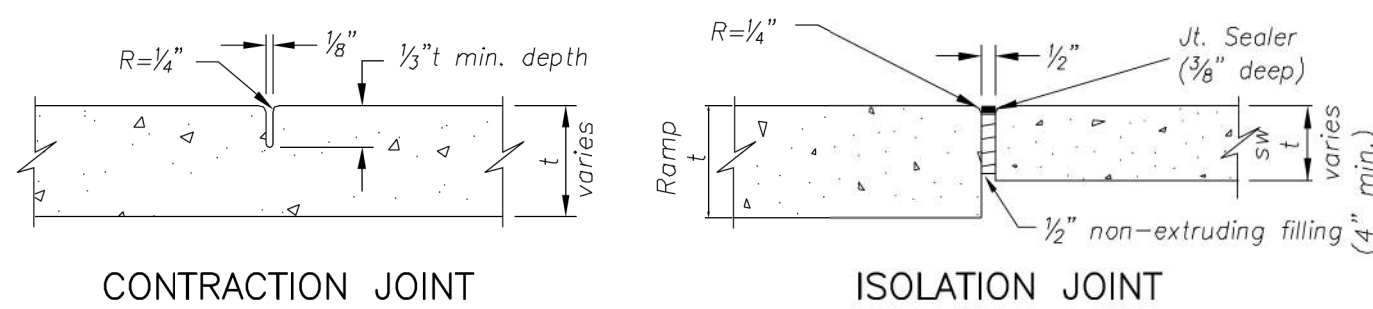
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.	XXX
DRAWING NO.	XXX
DATE	September 2019
JOB NO.	19.006.01
SHEET OF	14

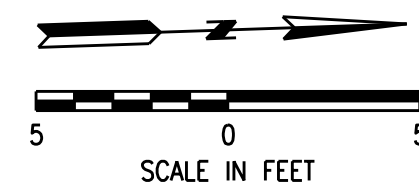
REV.



1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
ADA MAXIMUM CROSS SLOPE = 2.0%
*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, $\pm 0.5\%$.
7. TURNING SPACES SHALL BE 1.5%, $\pm 0.5\%$ SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



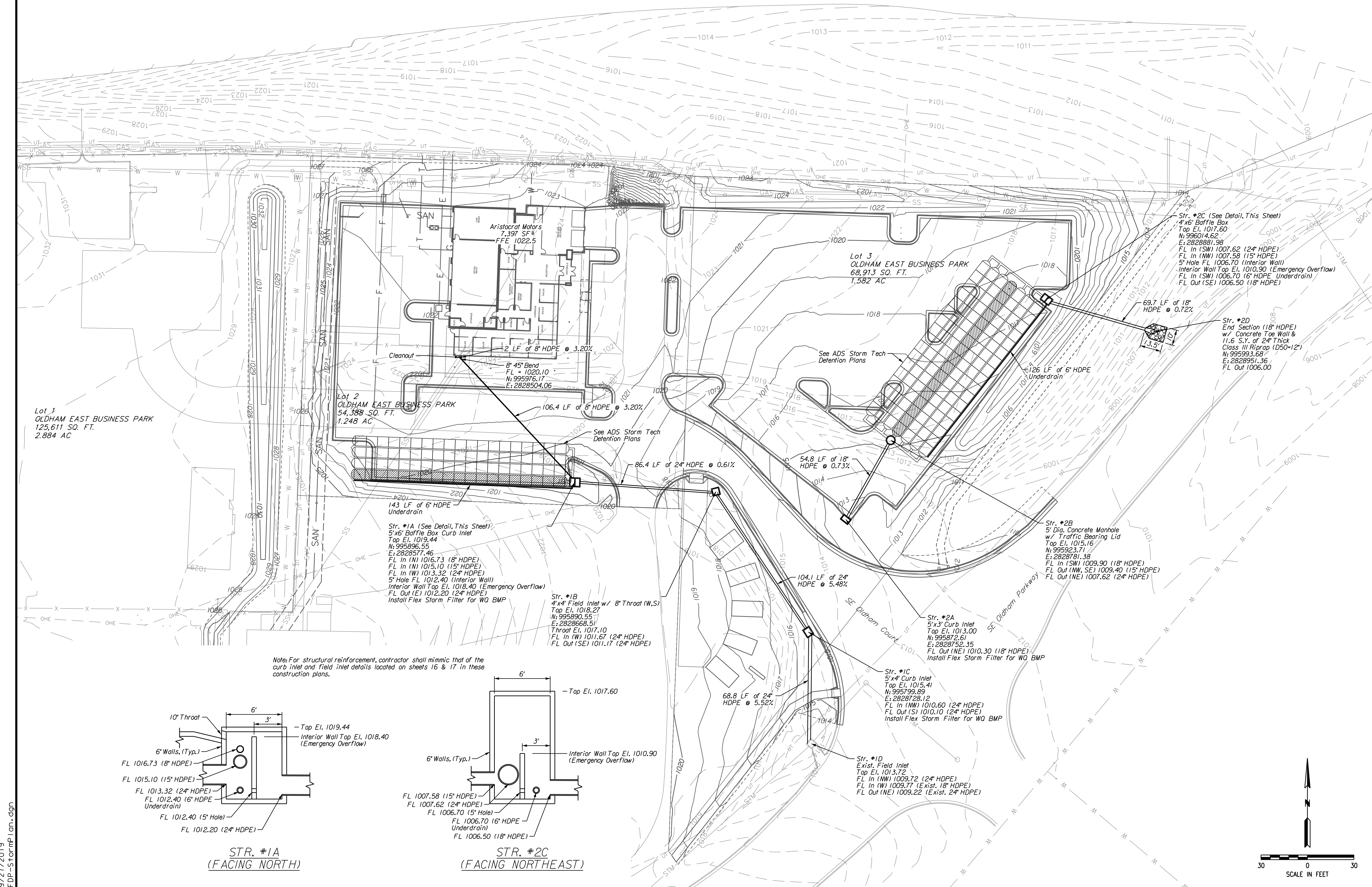
<u>Spot Elevations</u>	
TC	Top Of Curb
PV	Top Of Pavement
EG	Existing Grade
PG	Proposed Grade
SW	Sidewalk
HP	High Point
LP	Low Point



5	SHEET OF	14	JOB NO. 19.006.01	DATE September 2019	DRAWING NO. XXX	X-REF NO. XXX	ADA RAMP DETAIL	ARISTOCRAT MOTORS	LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	11010 Haskell St., Ste. 210 Kansas City, KS 66109 816-759-2985 CORPORATE LICENSE No. E2010005973			9/30/19			DATE	REVISION	NO.	BY	CA/APP
9/30/19 Addressed City Comment Letter dated 9/23/19 4 RAM1 RKS														R. KEVIN STERRETT, NO E-26440						
9/3/19 Addressed bid questions in regards to ME-201 3 RAM1 RKS																				
7/16/19 Addressed City Comment Letter dated 6/28/19 2 RAM1 RKS																				
6/14/19 PDP Submittal 1 RAM1 RKS																				
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9/27/2019
FDP-SidewalkRampDetail.dgn

1. All storm sewer pipe to be HDPE w/ smooth interior.



DATE	REVISION	NO.	BY	CA/APP
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7/16/19	Addressed bid comments in regards to ME-201	2	RAM	RNS
6/14/19	PDF Submittal	1	RAM	RNS

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11010 Haskell St., Ste. 210 Kansas City, KS 66109 816-759-2285
CORPORATE LICENSE NO. E2010003573

R. KEVIN STERRETT, MO E-26440

PROFESSIONAL
CORPORATE LICENSE No. E2010005873

11010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285

STORM SEWER PLAN

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.

DRAWING N

DATE _____

JOB NO.

6

SHEET 14
OF

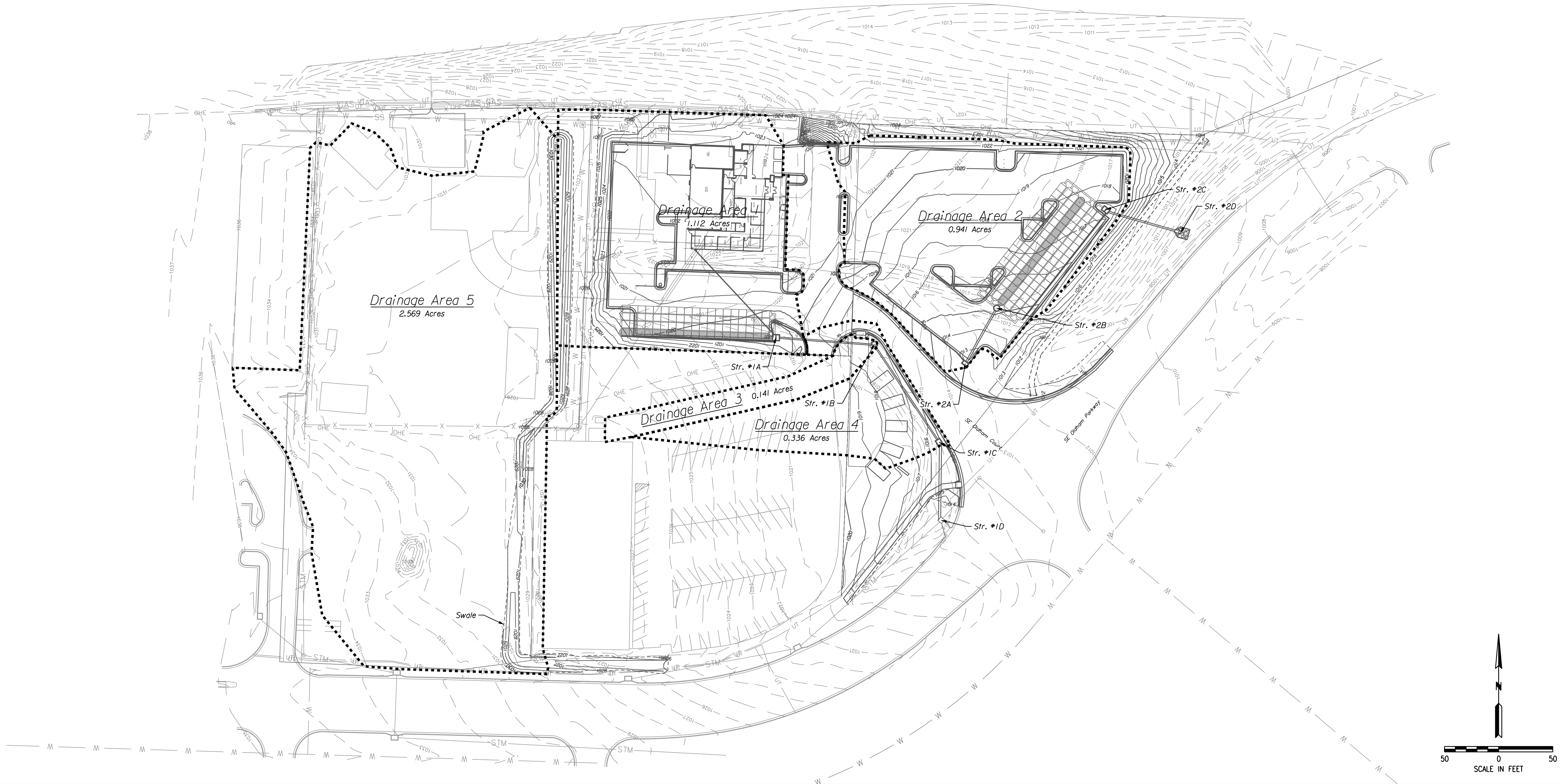
REV.

After analyzing the upstream drainage area (Area 1, 1.112 acres, Area 2, 0.941 acres), with an AASHTO soil rating (C rating) and the slope of the finish grade (3.7%), it is determined that the outlet structures detailed in the plan sheets, the post developed rate of discharge for both areas (4.29 cfs) is less than the pre-developed drainage flow (14.99 cfs). The detention ponds would be capable of detaining 0.466 acre-feet with a bottom elevation of 1014.4 in Area 1 detention and a bottom elevation of 1006.7 in Area 2 detention. The detention areas would have a maximum 100 year storm event elevation of 1018.9 in Area 1 detention and 1011.4 in Area 2 detention. This elevation would occur at maximum volume. For more information, see Storm Water Drainage Analysis that was submitted along with these construction plans.

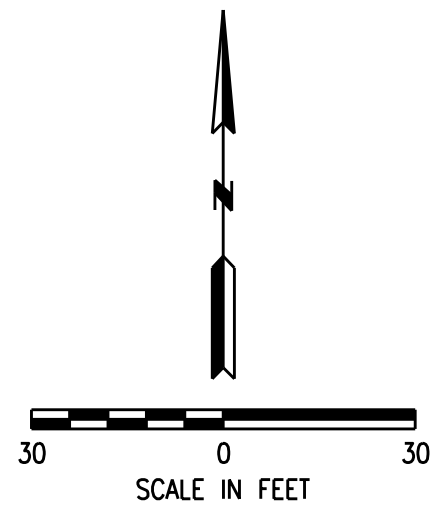
Grade berm/swale to divert off-site water South to Oldham Parkway. After analyzing the upstream drainage area (Area 5 - 2.569 Acres) it is determined that by providing a 4' wide swale with 3:1 side slopes at a maximum flow depth of 0.8', the swale can carry the 100 year flow of 11.6 cfs.

[illegible]

SWALE CALCULATIONS							
Swale Width	100-Year Flow (cfs)	Avg. Slope	Depth (ft)	Velocity (fps)	Area (S.F.)	Hyd. Radius (ft)	Shear Stress (psf)
4	11.6	1.0%	0.8	3.5	3.4	0.6	0.5

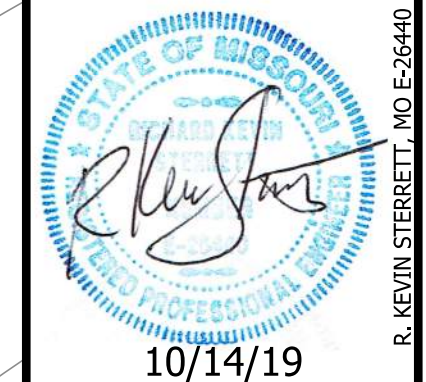


1. All utility installation to be in accordance to Lee's Summit "DESIGN AND CONSTRUCTION MANUAL" per Ordinance 5813. See manual for specifications and standard details.
2. Reuse existing sanitary as shown, Abandon existing gas and water services as shown and replace w/ new services connections.
3. Sanitary sewer service to be 4" Schedule 40 or SDR-26 PVC at 2% minimum slope.
4. Trench checks are to be provided on all service laterals "Y" within 5 feet of the sanitary sewer line.
5. Contractor to contact the Water Utilities Department, Operations Division, at (816) 969-7606 to schedule water main taps and cut-ins, 48 hours in advance.
6. Gas service line to be sized per MEP plans.
7. Contractor to coordinate electrical service with KCP&L.



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9/30/19	Addressed City Comment Letter dated 9/23/19	4	RAM	RKS
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6/14/19	POP Submitted	1	RAM	RKS

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UTILITY PLAN
ARISTOCRAT MOTORS LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

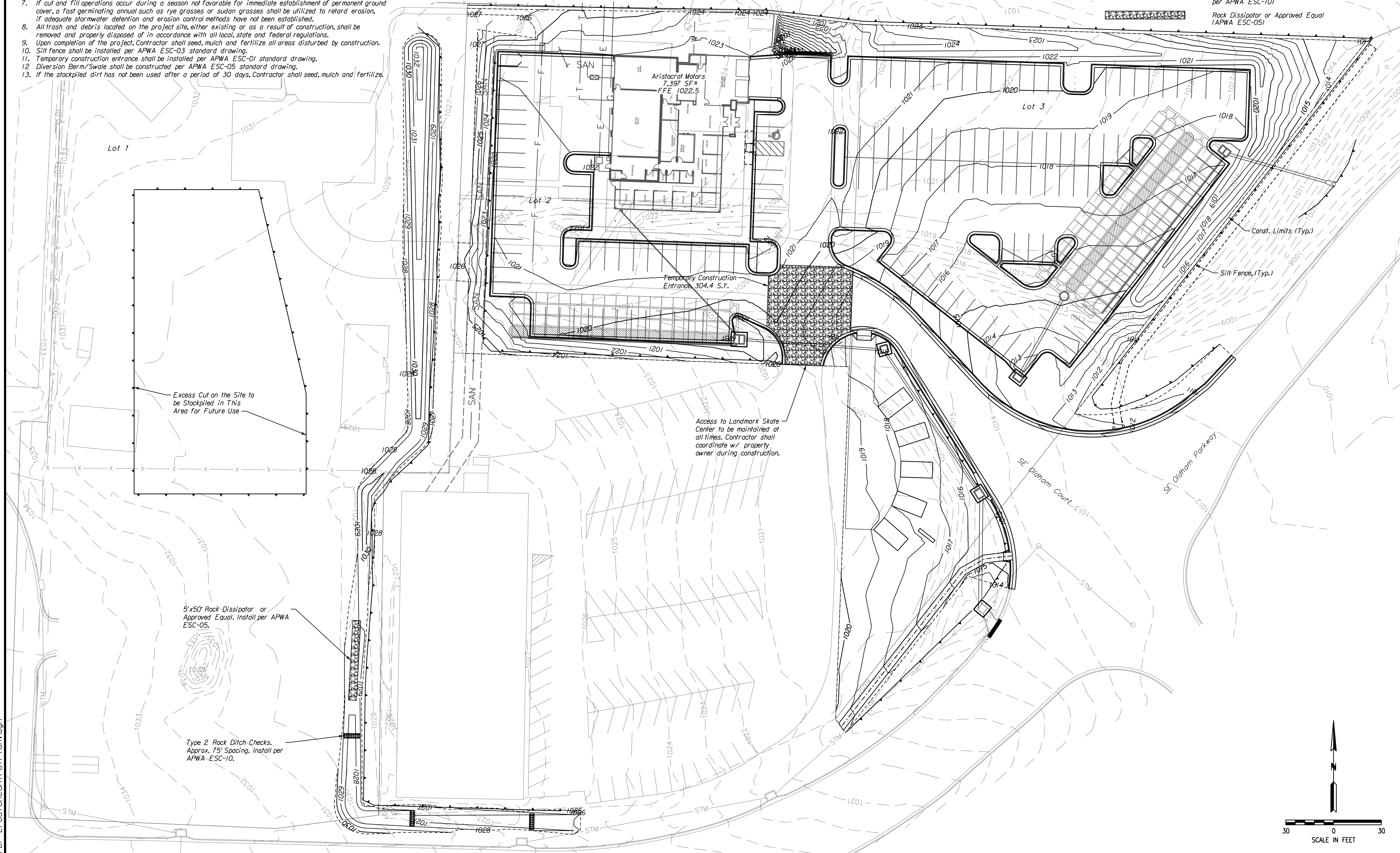
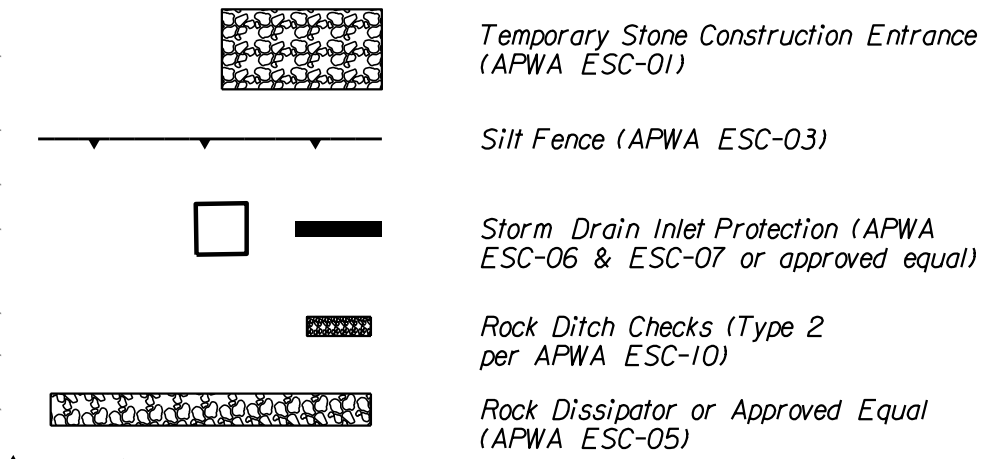
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DRAWING NO. XXX	
DATE October 2019	
JOB NO. 19.006.01	
8	SHEET OF 14

REV.

EROSION CONTROL NOTES:

1. The Developer shall be responsible for erosion control within the boundaries of this development. Erosion control shall be the responsibility of said Developer until all development work on site is complete, and all appropriate permits have been released and/or terminated. The Developer is responsible for seeing that all Development Contractors comply with the requirements of any and all land disturbance permits, grading permits and storm water discharge permits.
2. Erosion Control and Siltation Control methods shall be in place prior to commencement of any grading and/or excavation of the site. All erosion control measures shall remain in place until final grade and sod is completed by the Builder, and shall be maintained throughout the project until the acceptance of the work by the City.
3. No grading shall be steeper than 3H:1V. All areas graded should have the soil surface lightly roughened and loosened to a depth of 2 to 4 inches prior to seeding. Areas that have been graded and will not be stabilized immediately shall be roughened to reduce runoff velocity until seeding takes place.
4. Sediment Fences shall be inspected periodically and after every rain event for damage and for the amount of sediment which has accumulated. Removal of sediment will be required when it reaches one-third (1/3) the height of the sediment fence. Sediment fences shall be repaired or replaced as necessary.
5. Seeding on non-forested areas shall be carried out in order to eliminate the condition whereby mud and debris from construction and employee vehicles is tracked onto existing pavement. The Contractor shall keep the existing roadways free of mud, rock and debris at all times. The site shall have a temporary construction access installed to prevent mud and debris from being tracked onto the public street.
6. Permanently stabilize all graded areas immediately after final grading is complete on each area in the Grading Plan. If clearing and/or grading operations are suspended for a period of thirty (30) days or longer, temporary stabilization measures are required. These measures may include seeding, periodic wetting, mulching or other suitable measures.
7. If cut and fill operations occur during a season not favorable for immediate establishment of permanent ground cover, a fast germinating annual such as rye grasses or sudan grasses shall be utilized to retard erosion, if adequate stormwater detention and erosion control methods have not been established.
8. All trash and debris located on the project site, either existing or as a result of construction, shall be removed and properly disposed of in accordance with all local, state and federal regulations.
9. Upon completion of the project, Contractor shall seed, mulch and fertilize all areas disturbed by construction.
10. Silt fence shall be installed per APWA ESC-03 standard drawing.
11. Temporary construction entrance shall be installed per APWA ESC-01 standard drawing.
12. Division Berm/Swale shall be constructed per APWA ESC-05 standard drawing.
13. If the stockpiled dirt has not been used after a period of 30 days, Contractor shall seed, mulch and fertilize.

PLAN LEGEND



DATE	REVISION	NO.	BY	CK/APP
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6/14/19	PPP Submittal	1	RAM	RKS

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9/30/19



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CORPORATE LICENSE No. E201005873

1010 Haskell St., Ste. 210 Kansas City, KS 66109 816-759-2285

2. KEVIN STERRETT. MO E-26440

pratt
1010 Haskell St. Ste 210 Kansas City, KS 66109 816-759-2285
CORPORATE LICENSE No. E2010005873

EROSION CONTROL PLAN

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
XXX

DRAWING NO.
XXX

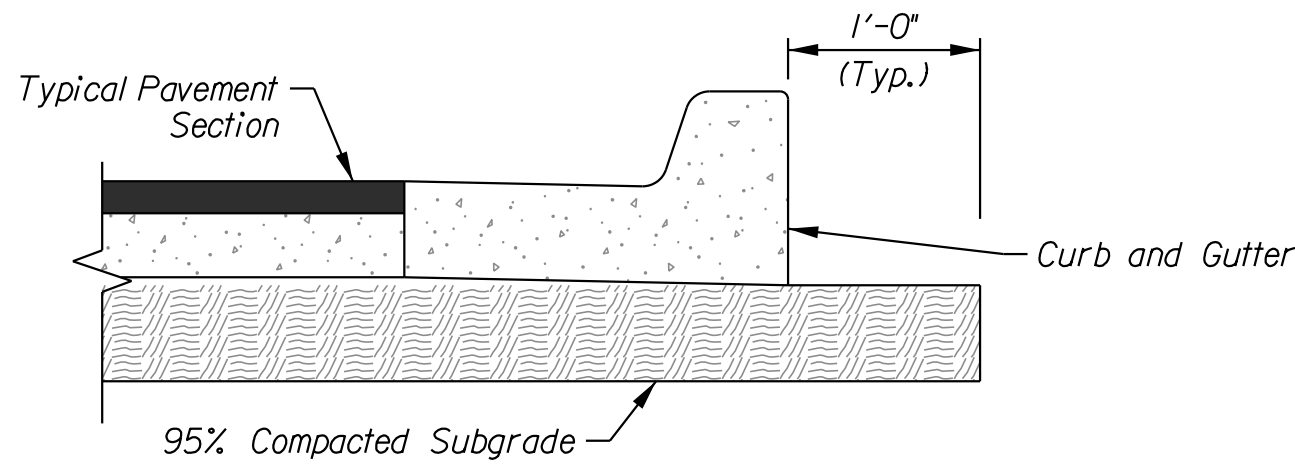
September 201

September 2019

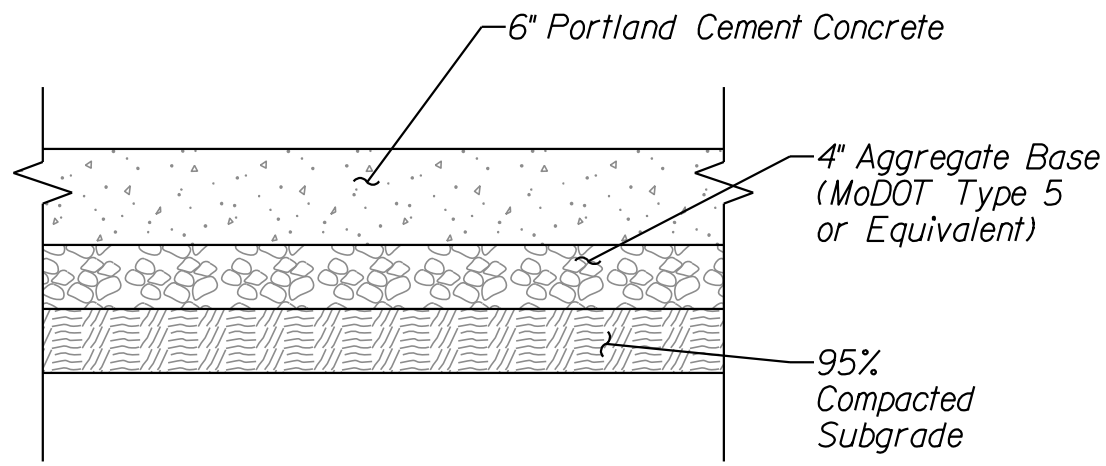
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19.006.01

9 SHEET OF 14

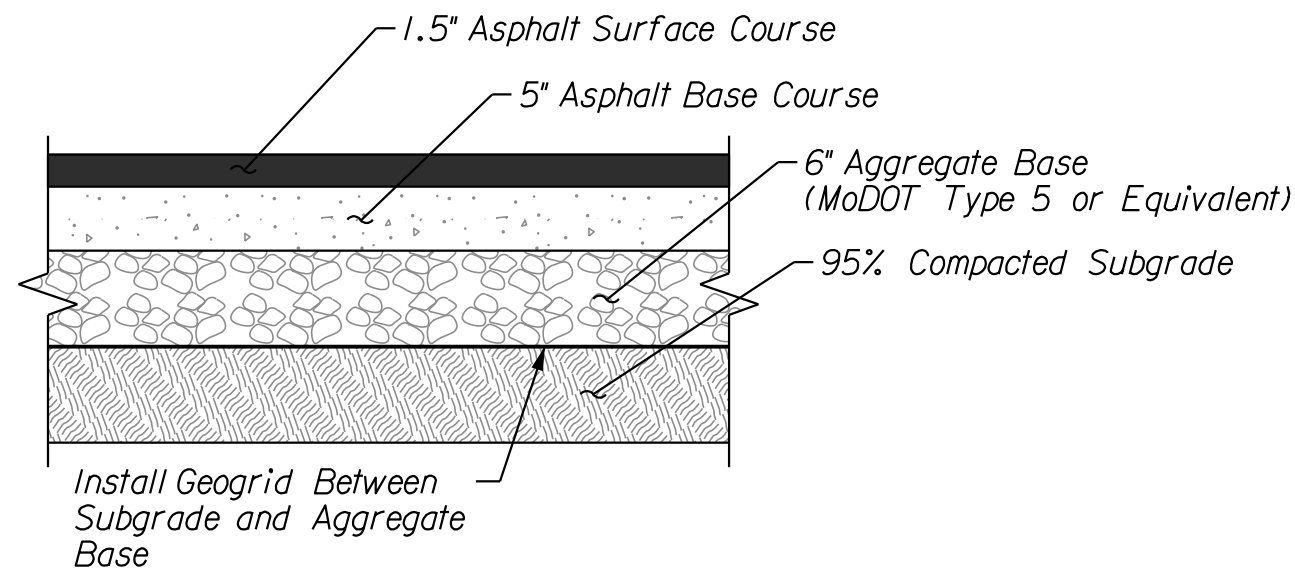
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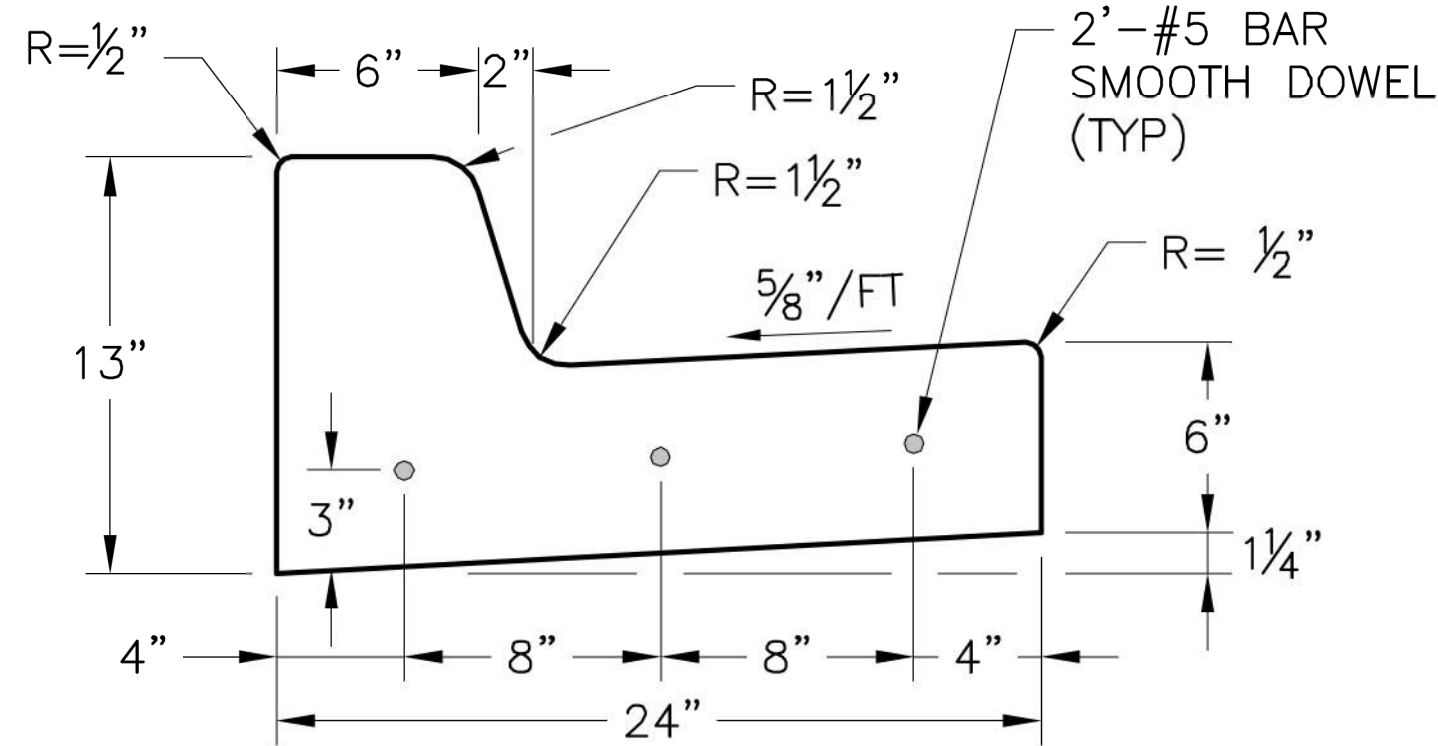
PAVING DETAIL
N.T.S.



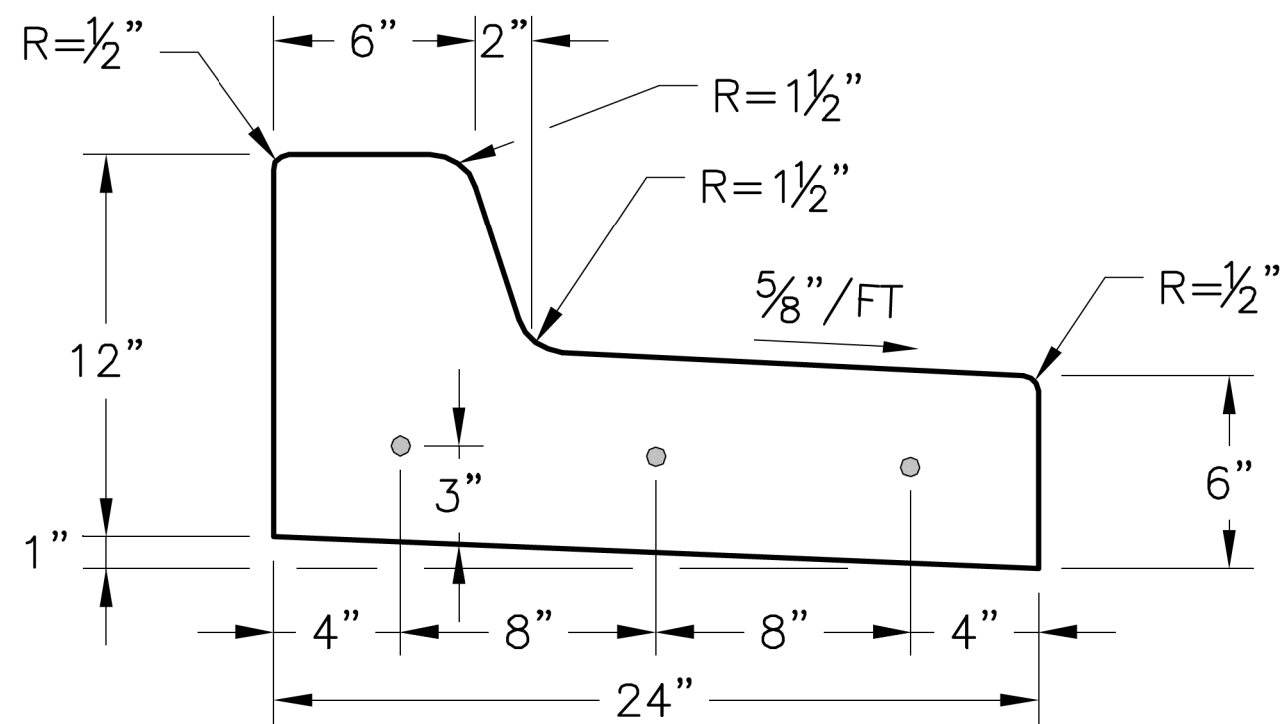
TRASH ENCLOSURE PAD
& APPROACH SECTION
N.T.S.



PAVEMENT SECTION
N.T.S.



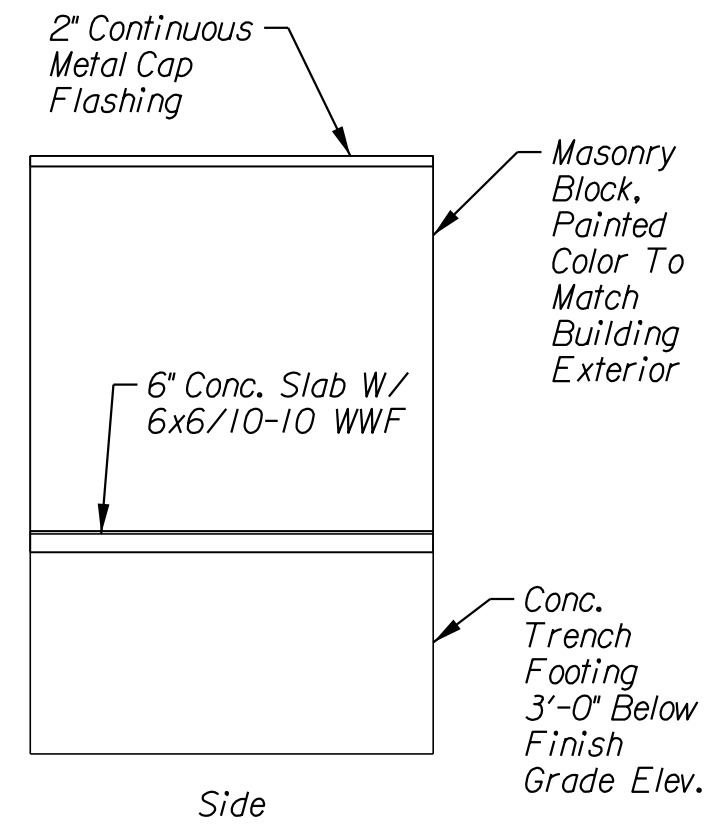
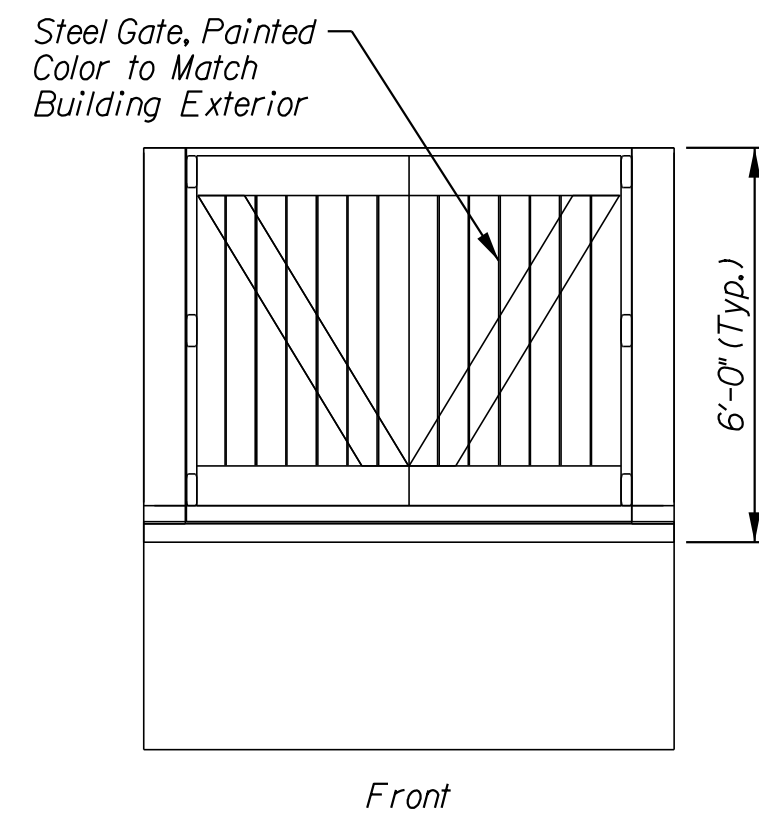
STRAIGHT BACK CURB &
GUTTER
(TYPE CG-1)



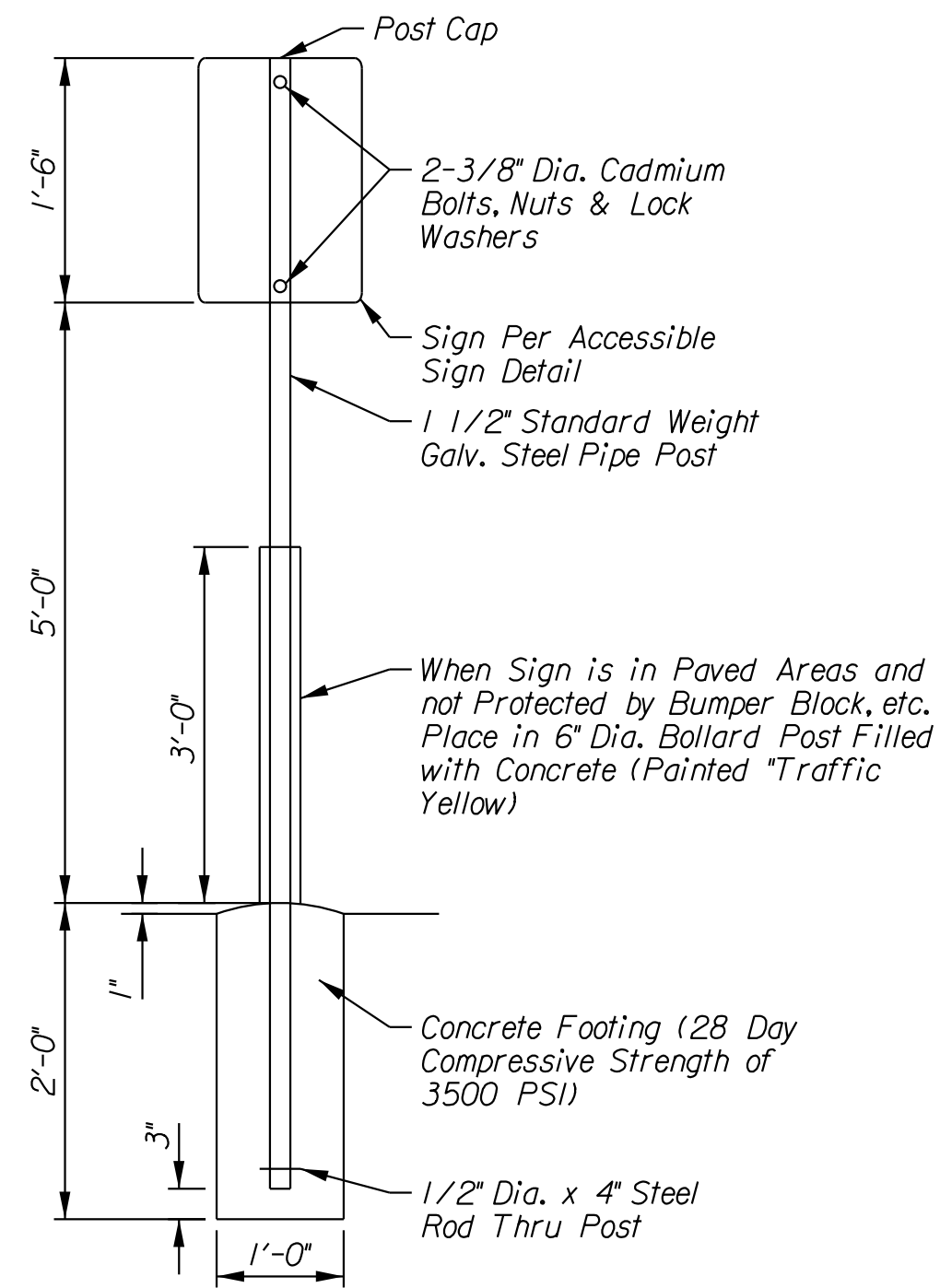
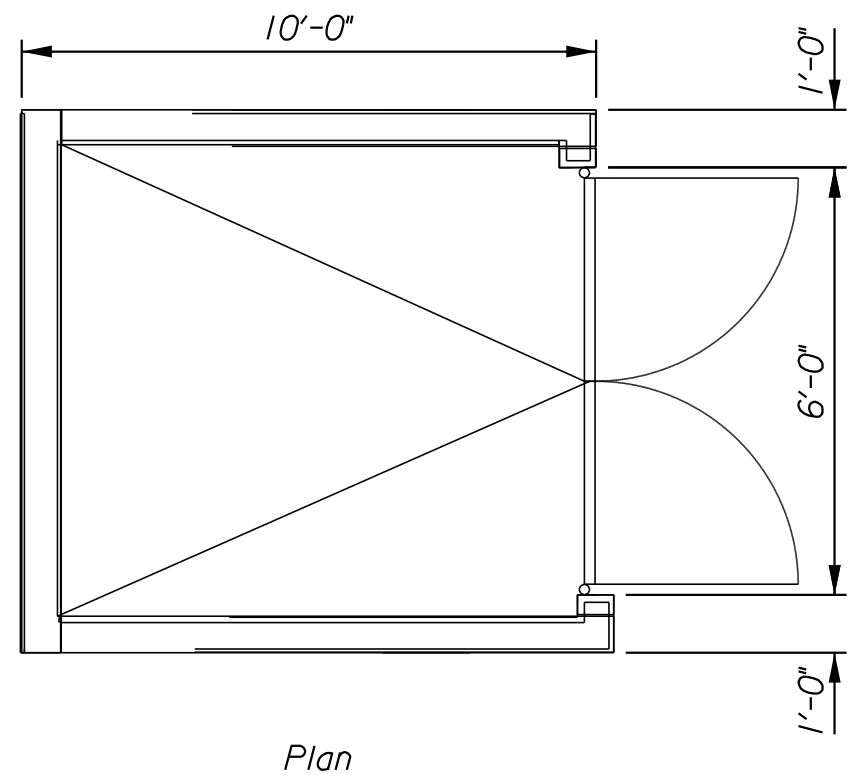
STRAIGHT BACK DRY CURB &
GUTTER
(TYPE CG-1 DRY)

GENERAL NOTES

- 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- ASPALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
- CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



MASONRY TRASH ENCLOSURE
N.T.S.



SIGN BASE
N.T.S.

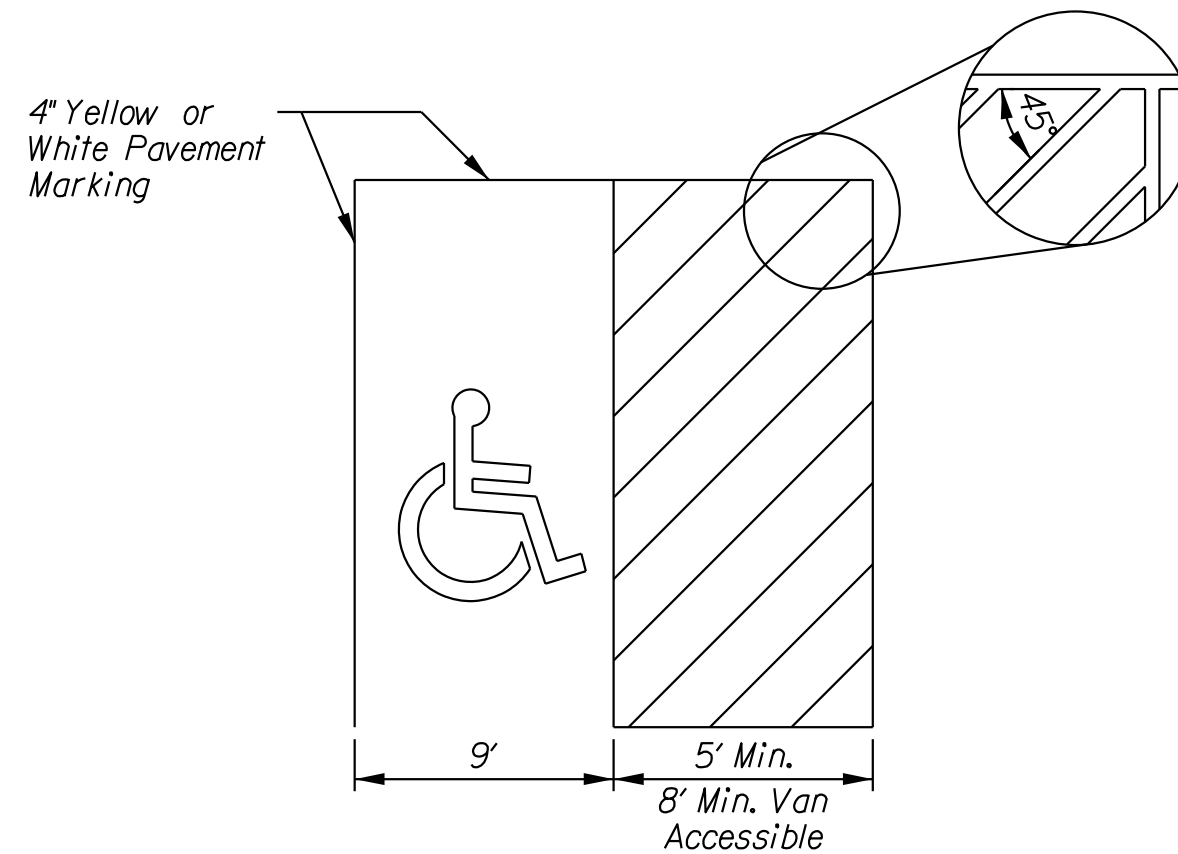


Colors
Legend and Border - Green
White Symbol on Blue Background
Background - White
(R7-8)

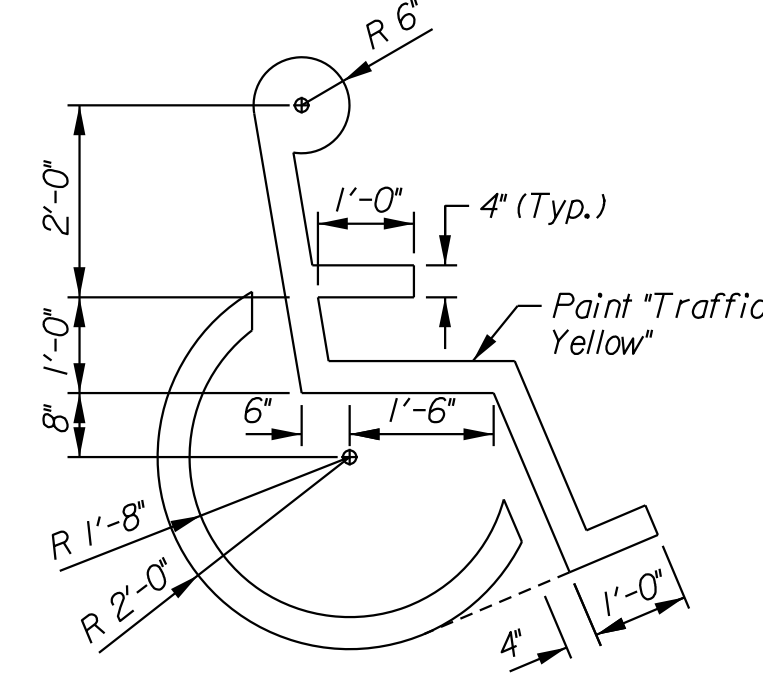


6'x12"
ACCESSIBLE SIGN DETAIL
N.T.S.

- All signs should comply with U.S. Department of Transportation Federal Highway Administration's "Uniform Traffic Control Devices", and local codes as specified. Mount signs in accordance with manufacturer's instructions.



ACCESSIBLE STRIPING DETAIL
N.T.S.

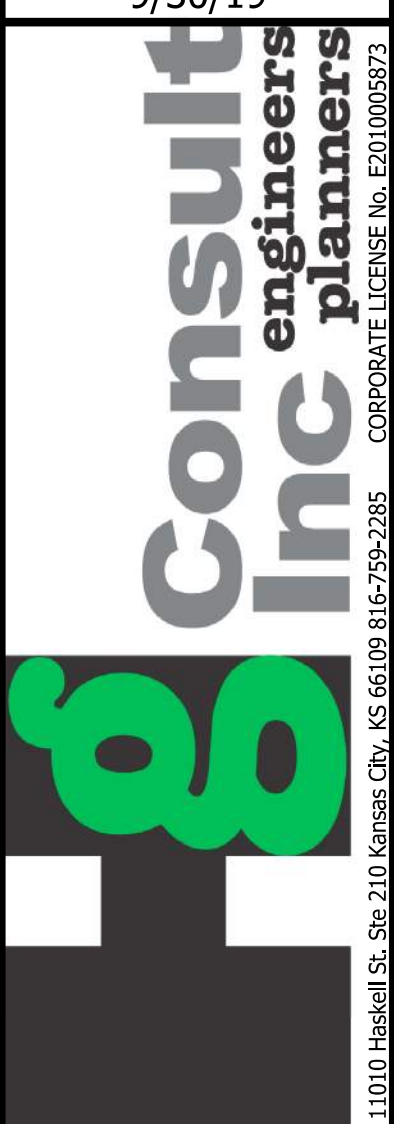
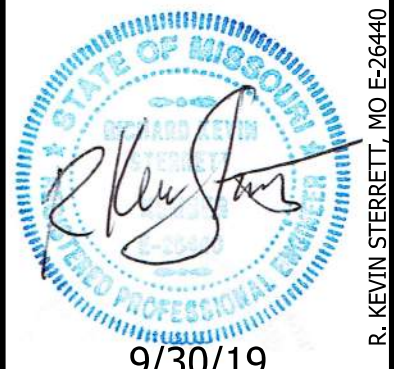


ACCESSIBLE PARKING SYMBOL
N.T.S.

NOTE: Symbol to be centered in parking space and oriented as illustrated on plans.

DATE	REVISION	NO.	BY	CHK/APP
9/30/19		4	RAM	RKS
9/3/19		3	RAM	RKS
7/16/19		2	RAM	RKS
6/14/19		1	RAM	RKS

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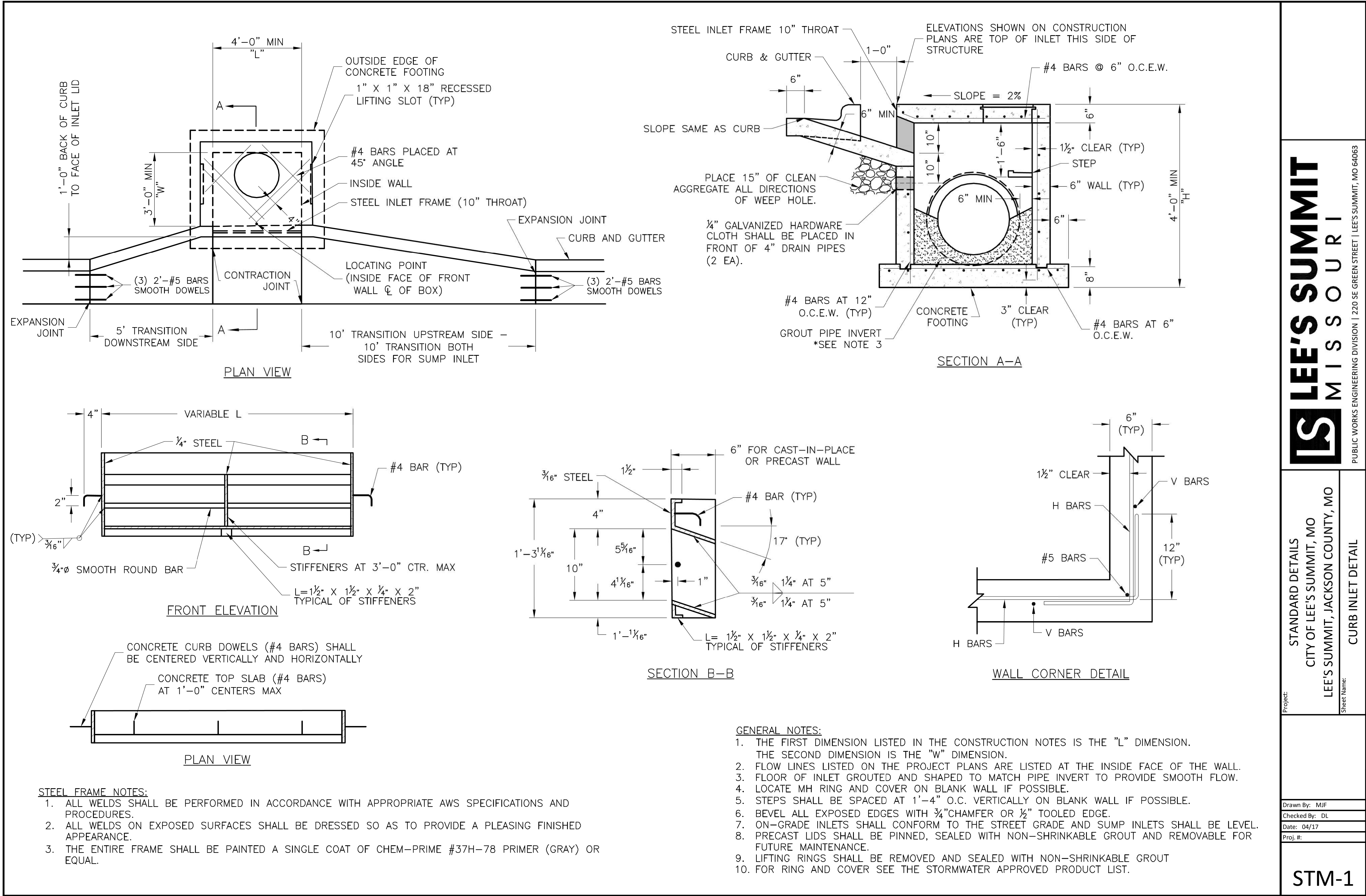
DETAIL SHEET

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
xxx
DRAWING NO.
xxx
DATE
September 2019
JOB NO.
19.006.01

10 SHEET OF 14



LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-1

DETAIL SHEET

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

9/30/19

consult inc
engineers planners

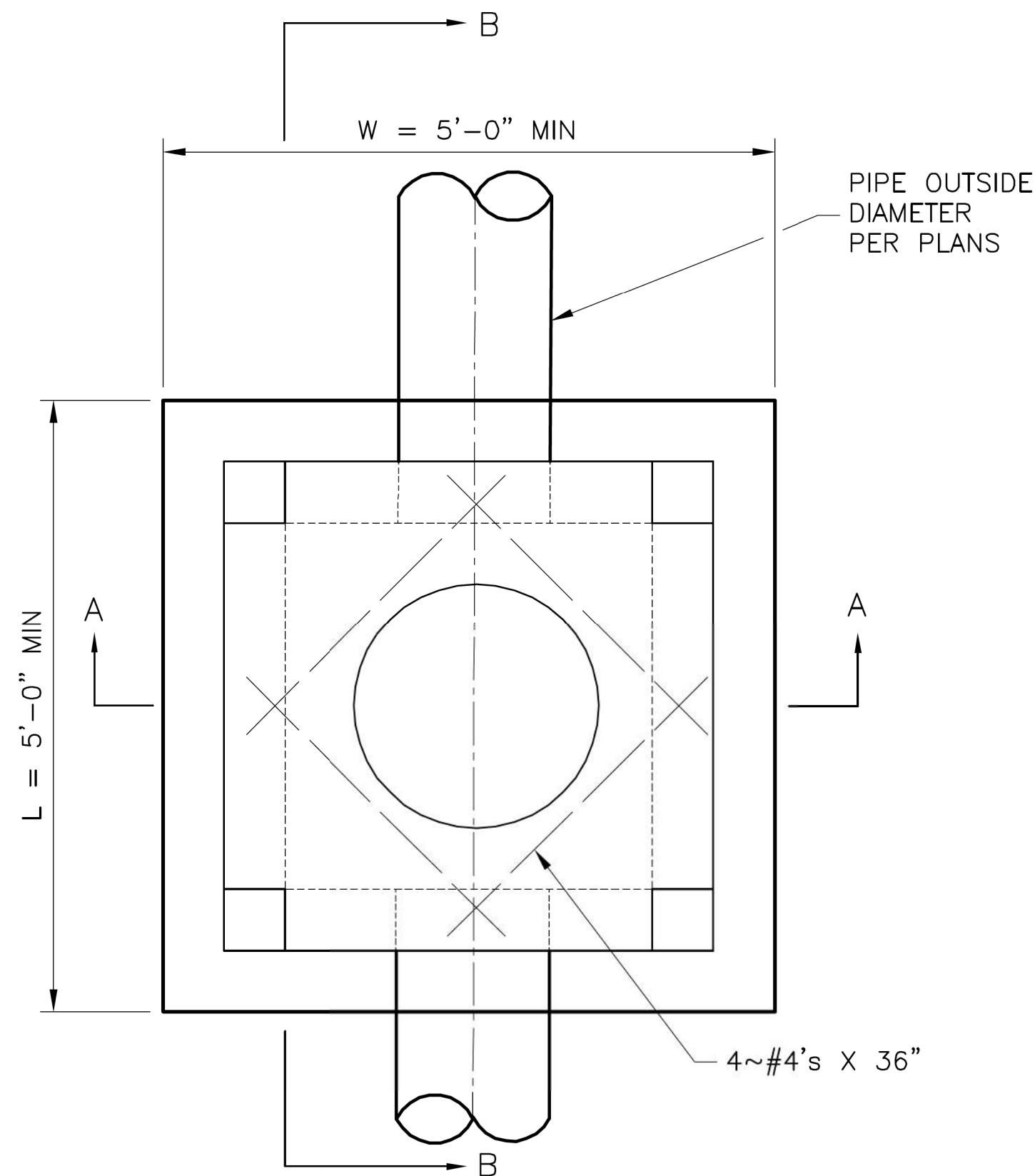
NO.	BY	DATE	REVISION
1	RAM	9/30/19	Addressed City Comment Letter dated 9/23/19
2	RAM	9/30/19	Addressed bid questions in regards to ME-201
3	RAM	9/30/19	Addressed City Comment Letter dated 6/28/19
4	RAM	9/30/19	PDP Submittal

9/30/19

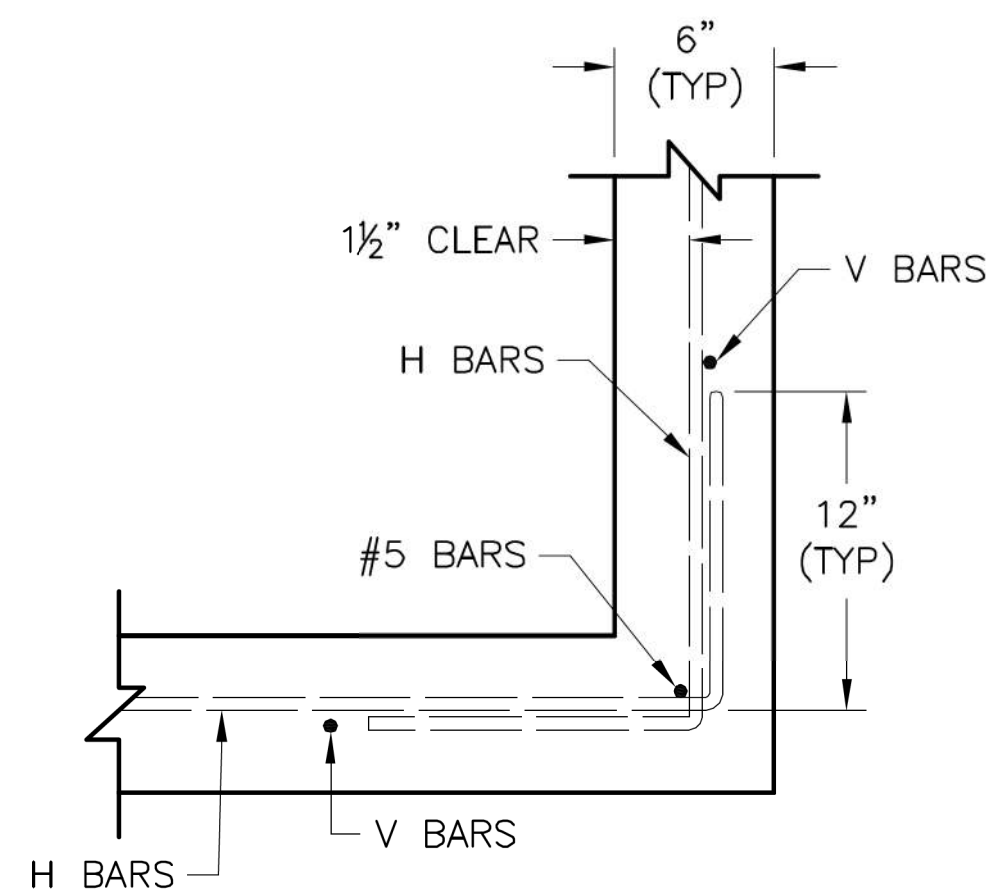
1,010 Haskell St, Ste 210 Kansas City, KS 66109 816-759-2285
CORPORATE LICENSE NO. E2010005873

11 SHEET OF 14

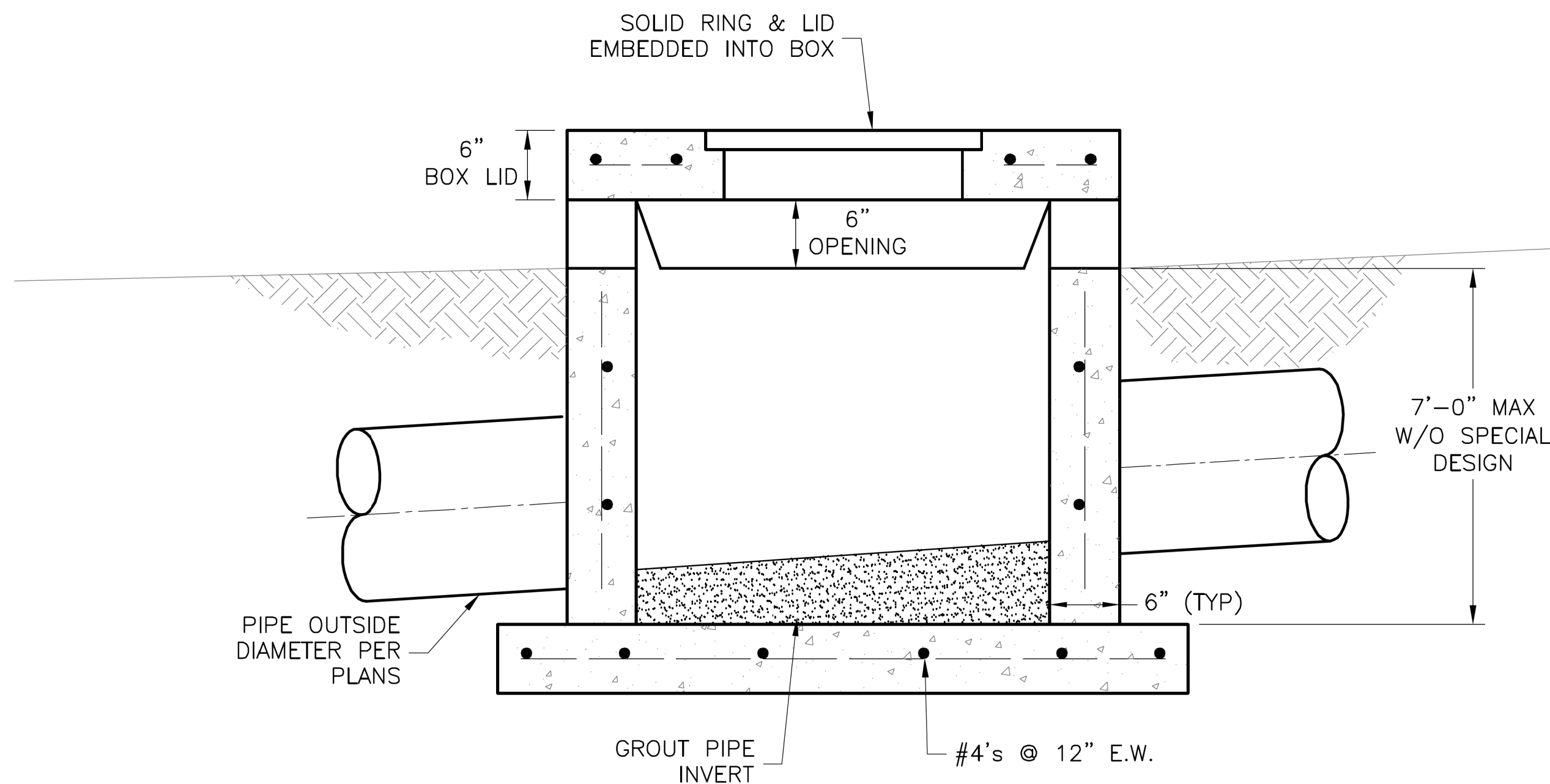
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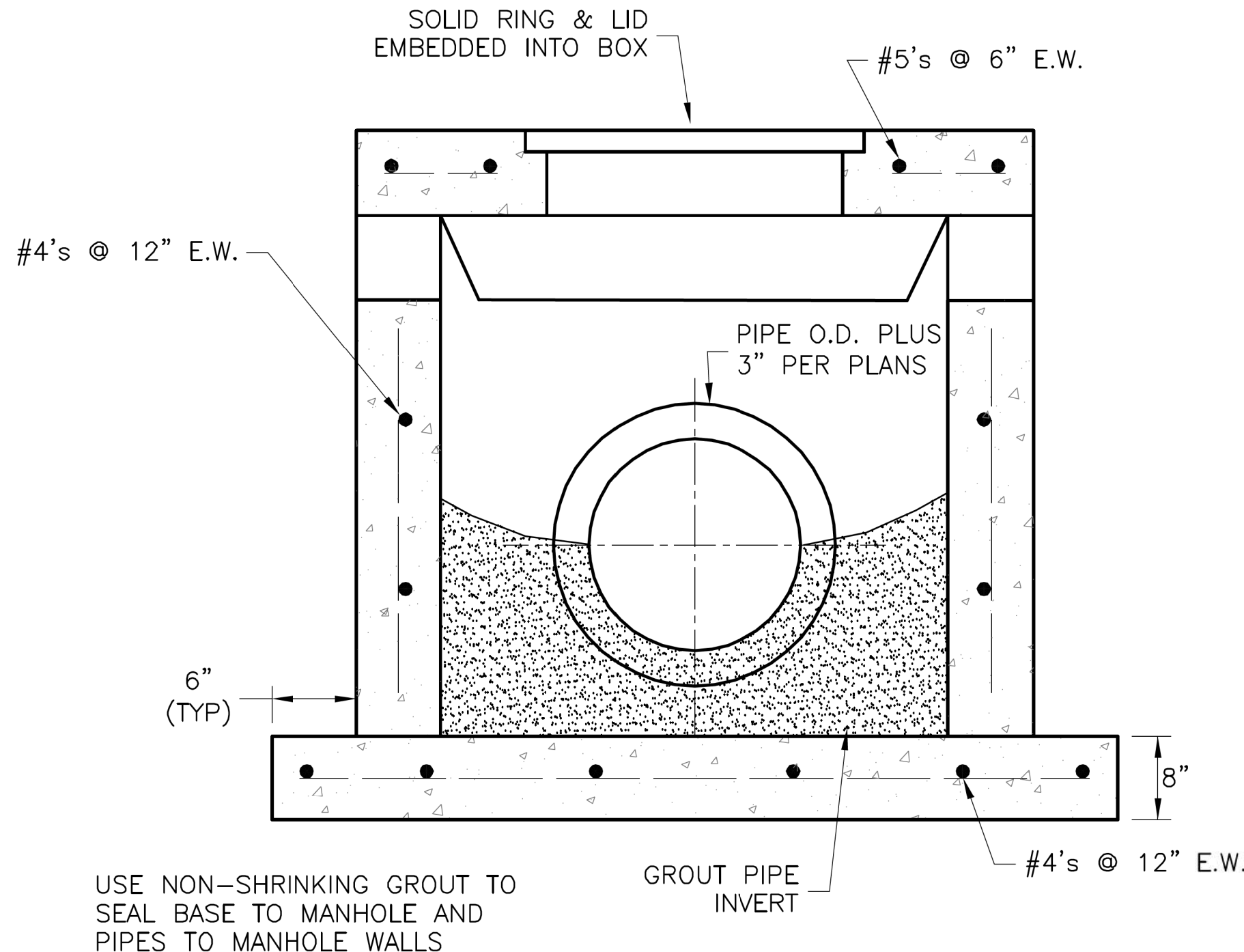
PLAN VIEW



WALL CORNER DETAIL



SECTION B-B



SECTION A-A

GENERAL NOTES:

1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE $\frac{3}{4}$ " CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

FIELD INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-2



9/30/19



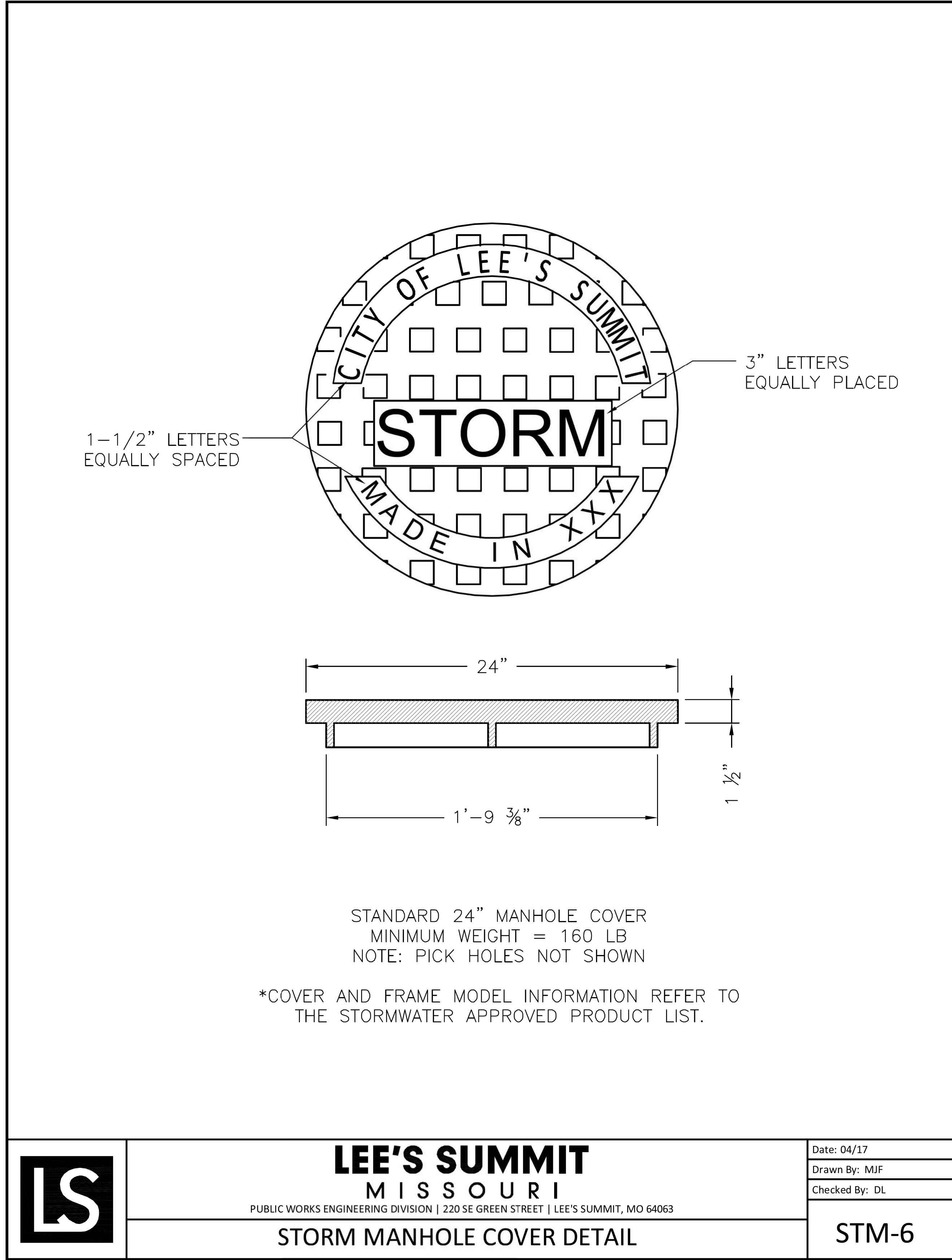
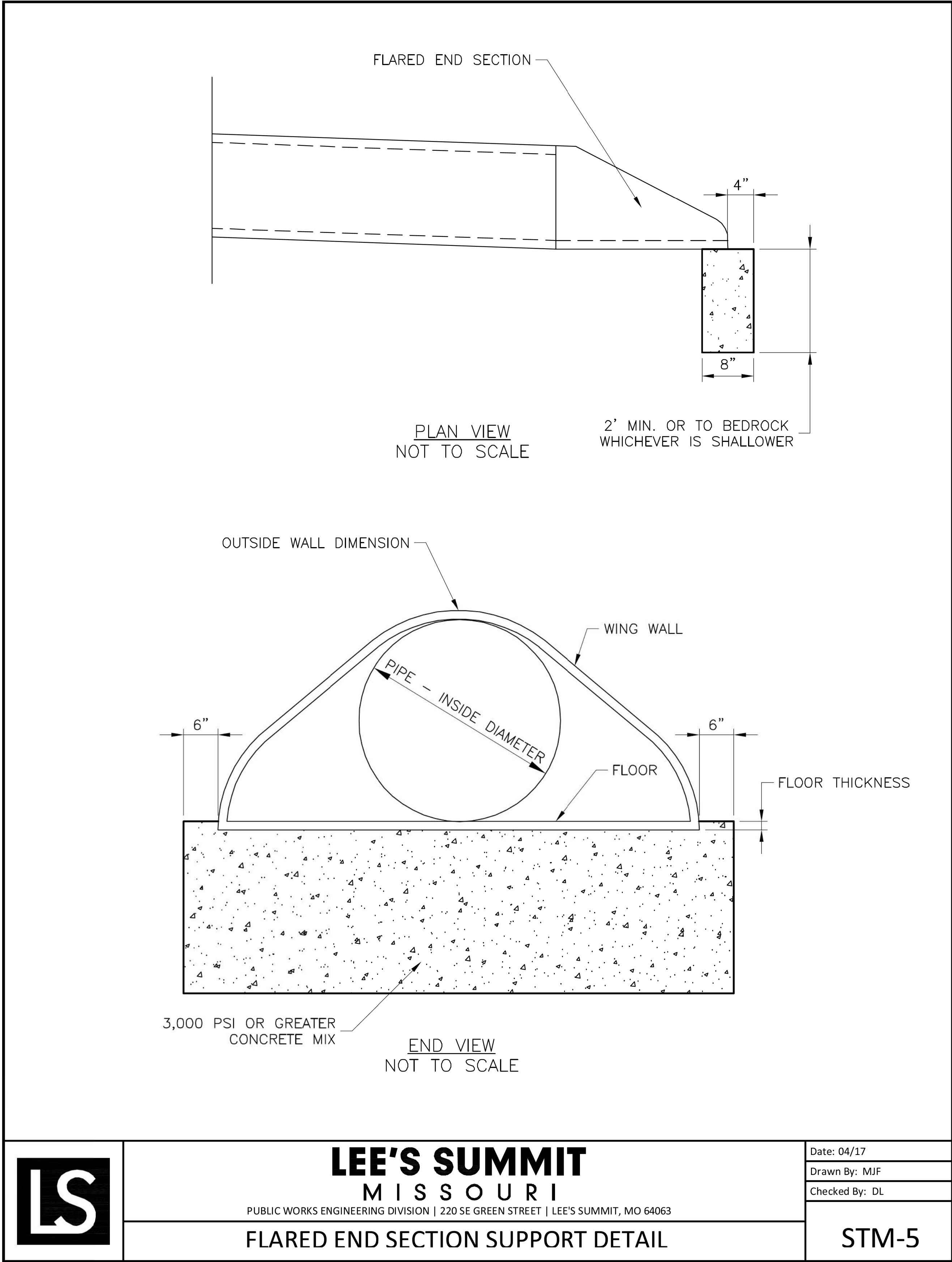
DETAIL SHEET
ARISTOCRAT MOTORS
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
xxx
DRAWING NO.
xxx
DATE
September 2019
JOB NO.
19.006.01

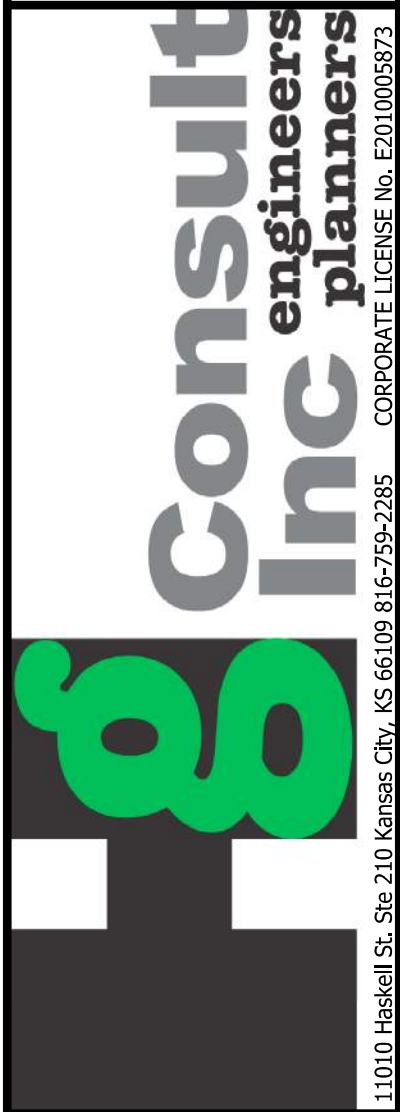
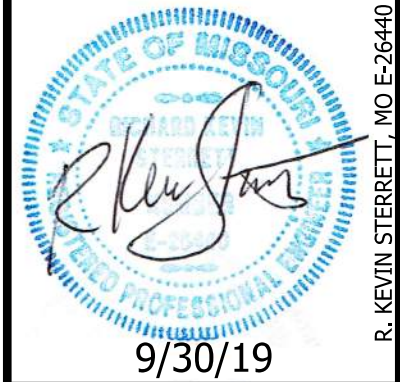
12 SHEET OF 14

REV.

9/27/2019
FDP-DetailSheet-06.dgn



DATE	REVISION	NO.	BY	CHK/APP
9/30/19	Addressed City Comment Letter dated 9/23/19	4	RAM	RKS
9/3/19	Addressed bid questions in regards to ME-201	3	RAM	RKS
7/16/19	Addressed City Comment Letter dated 6/28/19	2	RAM	RKS
6/14/19	PDP Submittal	1	RAM	RKS

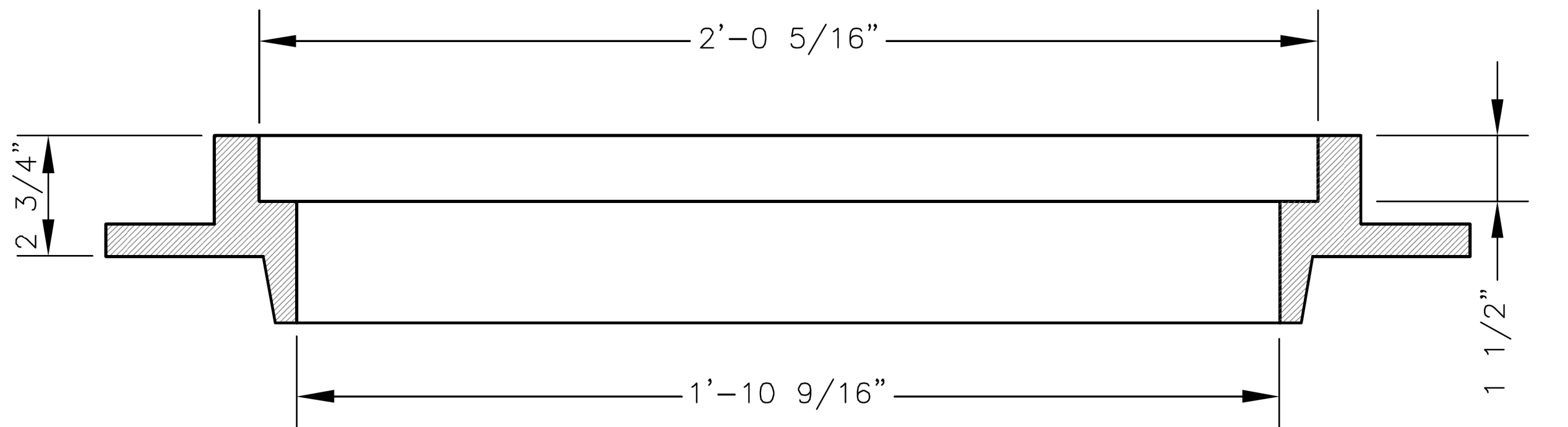


DETAIL SHEET	ARISTOCRAT MOTORS
LEE'S SUMMIT - JACKSON COUNTY - MISSOURI	

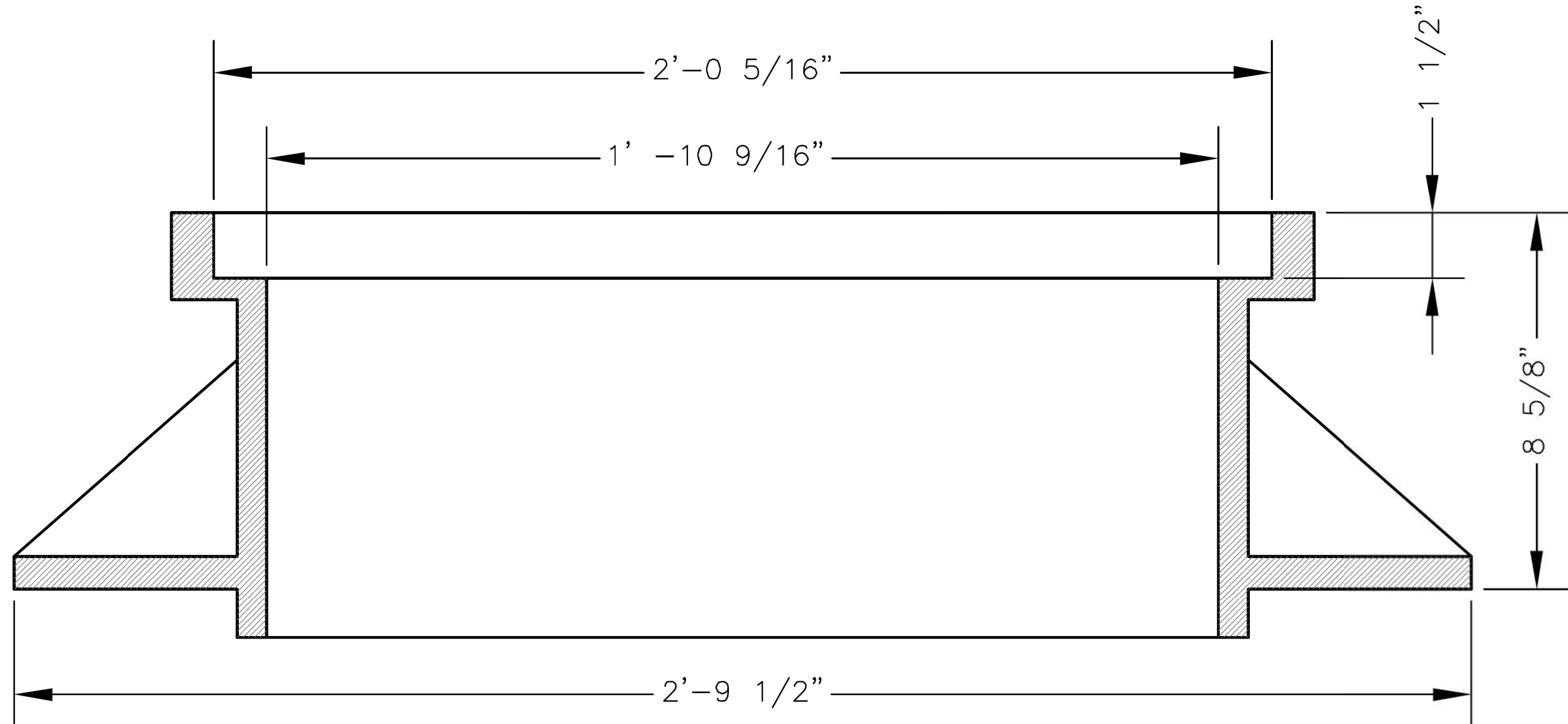
X-REF NO. XXX
DRAWING NO. XXX
DATE September 2019
JOB NO. 19.006.01
13 SHEET OF 14

REV.

9/27/2019
FDP-DetailSheet-07.dgn

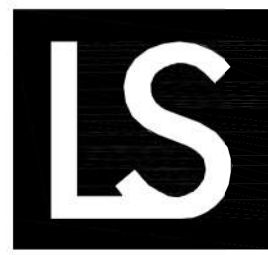


SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB



STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO
THE STORMWATER APPROVED PRODUCTS LIST.

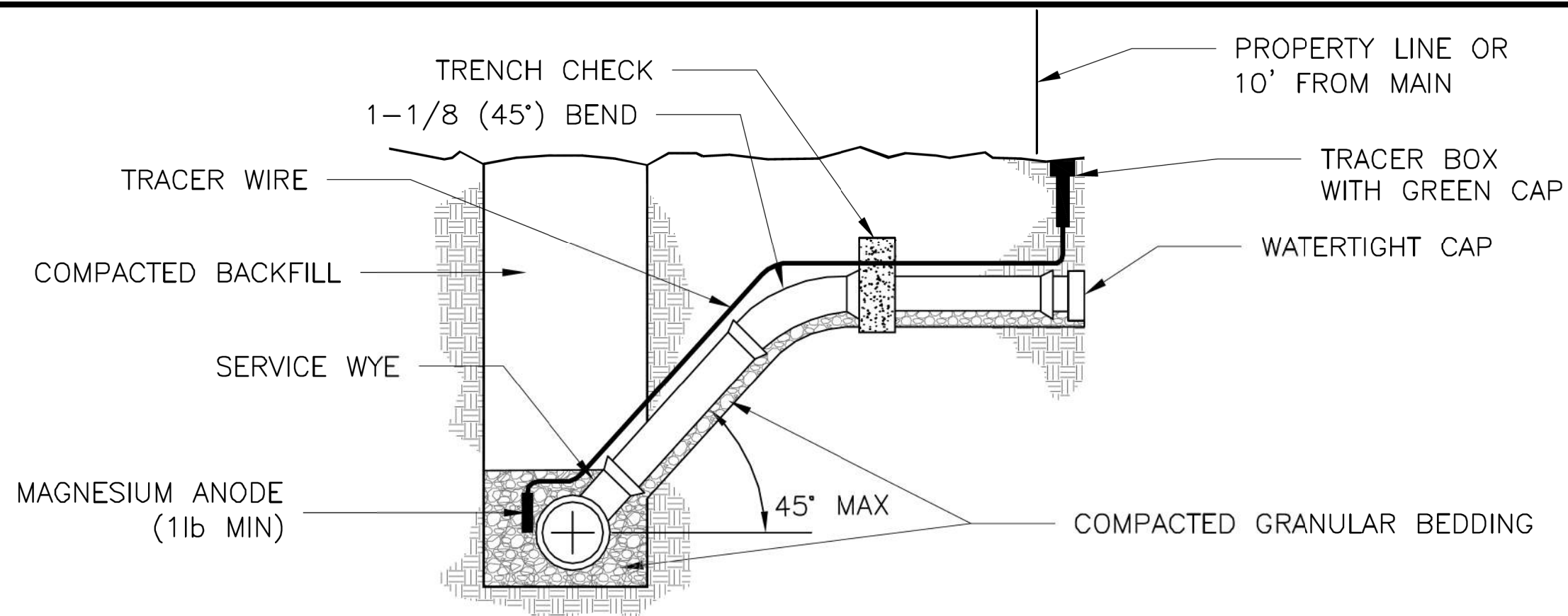


LEE'S SUMMIT
MISSOURI
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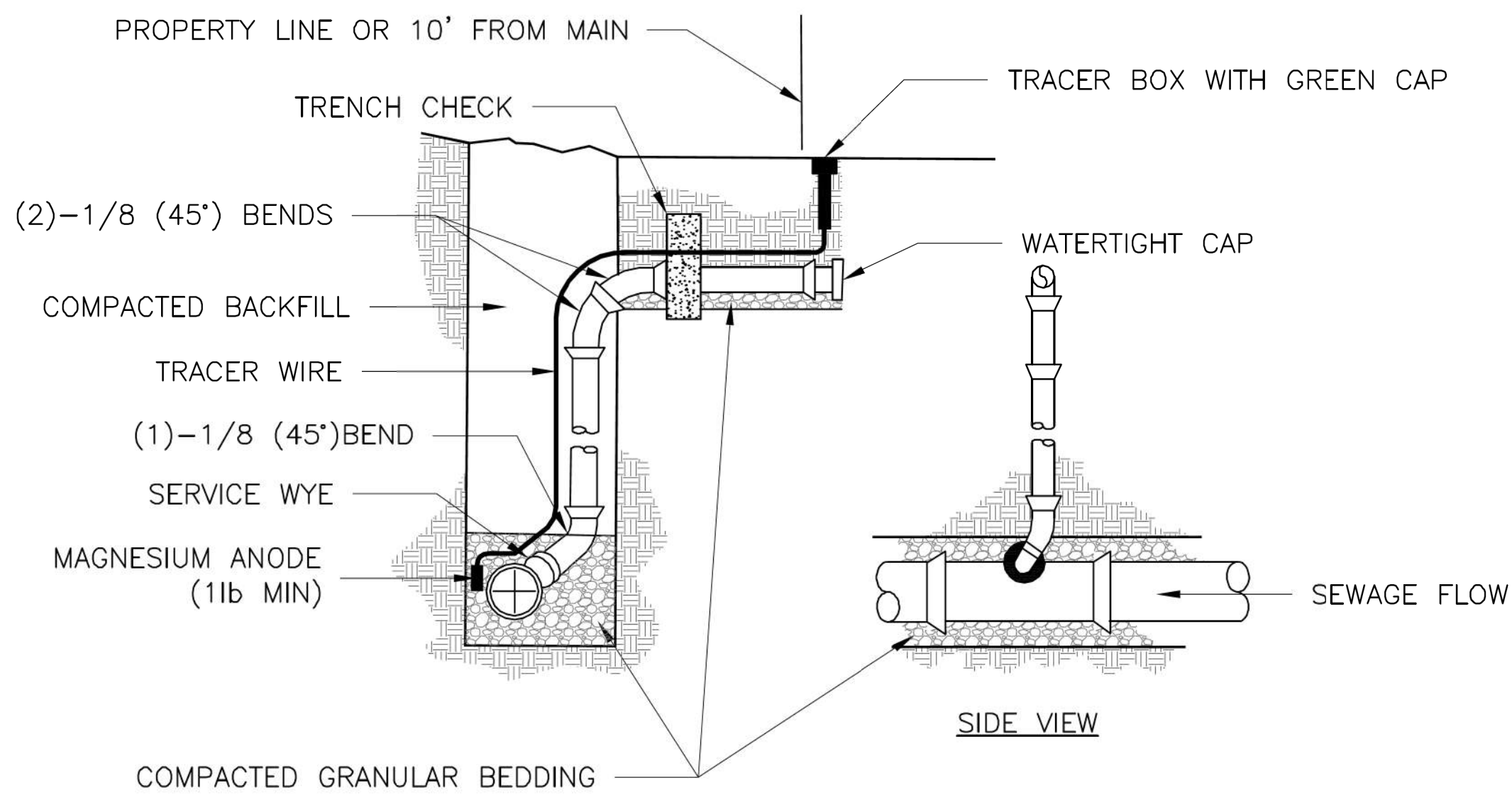
STORM MANHOLE FRAME DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-7



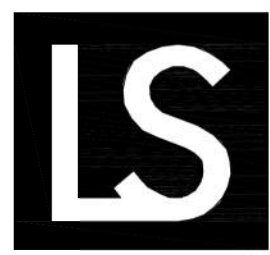
STANDARD INSTALLATION
NOT TO SCALE



VERTICAL RISER
NOT TO SCALE

NOTES:

1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.



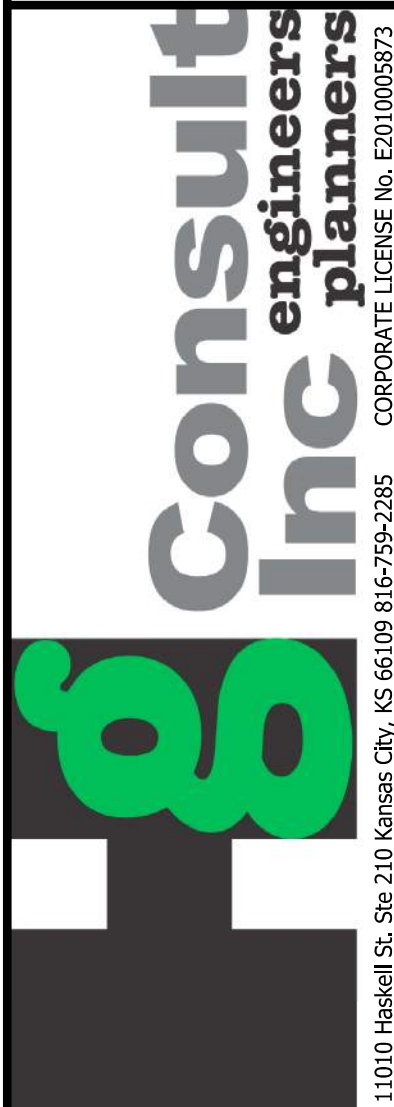
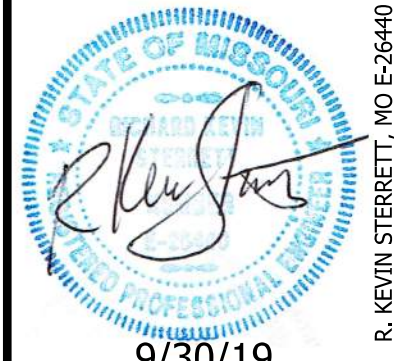
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

BUILDING SEWER STUB AND RISER

Date: 04/17
Drawn By: MJF
Checked By: DL

SAN-1

DATE	REVISION	NO.	BY	CHK/APP
9/30/19	Addressed City Comment Letter dated 9/23/19	4	RAM	RKS
9/3/19	Addressed bid questions in regards to ME-201	3	RAM	RKS
7/16/19	Addressed City Comment Letter dated 6/28/19	2	RAM	RKS
6/14/19	PDP Submittal	1	RAM	RKS



DETAIL SHEET

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.	XXX
DRAWING NO.	XXX
DATE	September 2019
JOB NO.	19.006.01

14 SHEET OF 14

REV.

New Construction
Soave Automotive Group
Lee's Summit, MO

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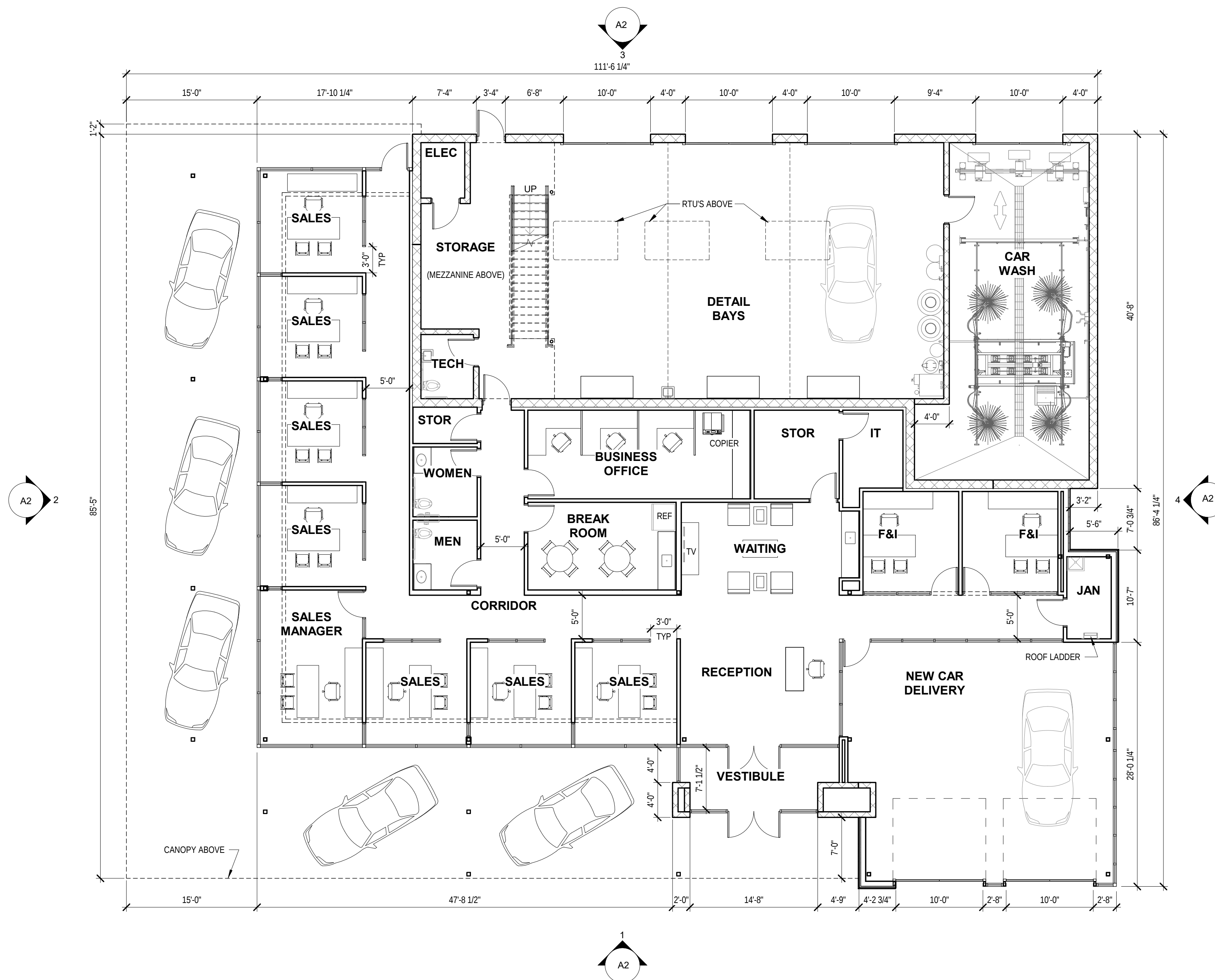
Project #: 180508

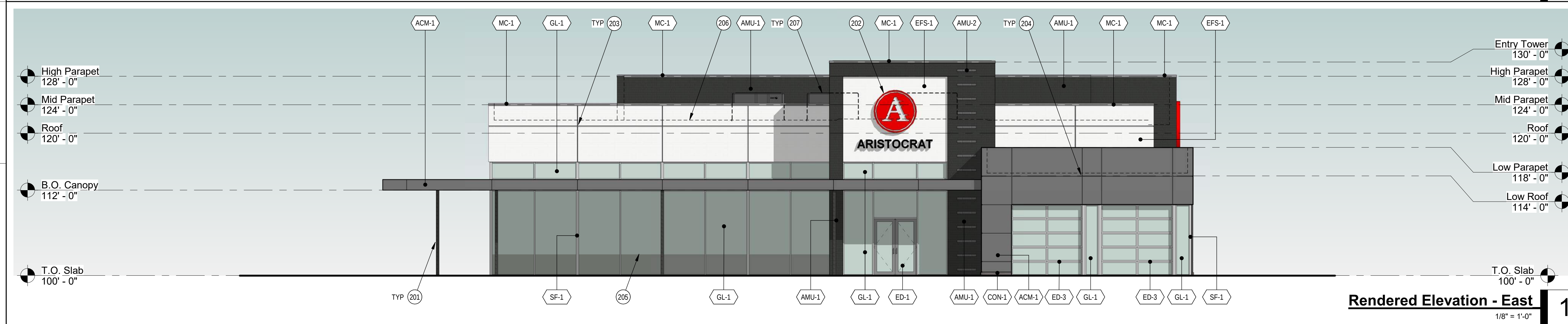
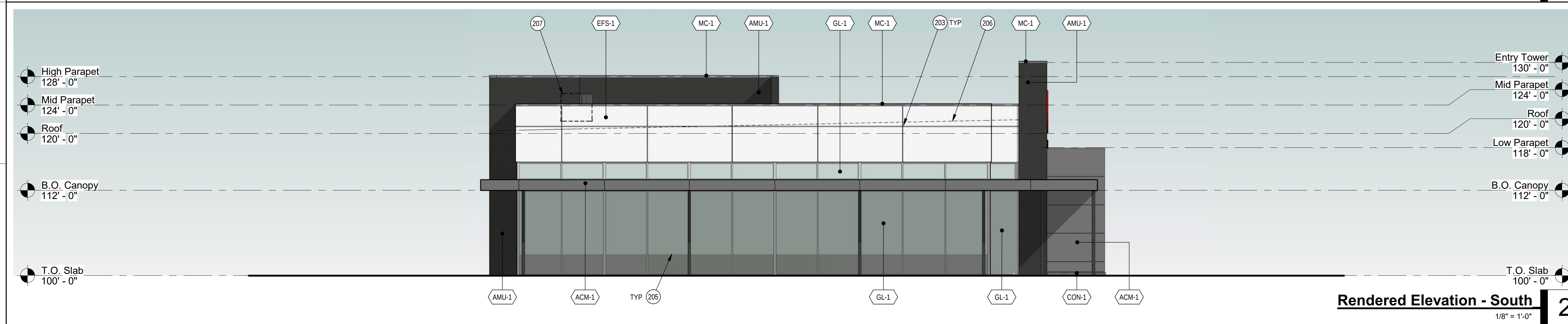
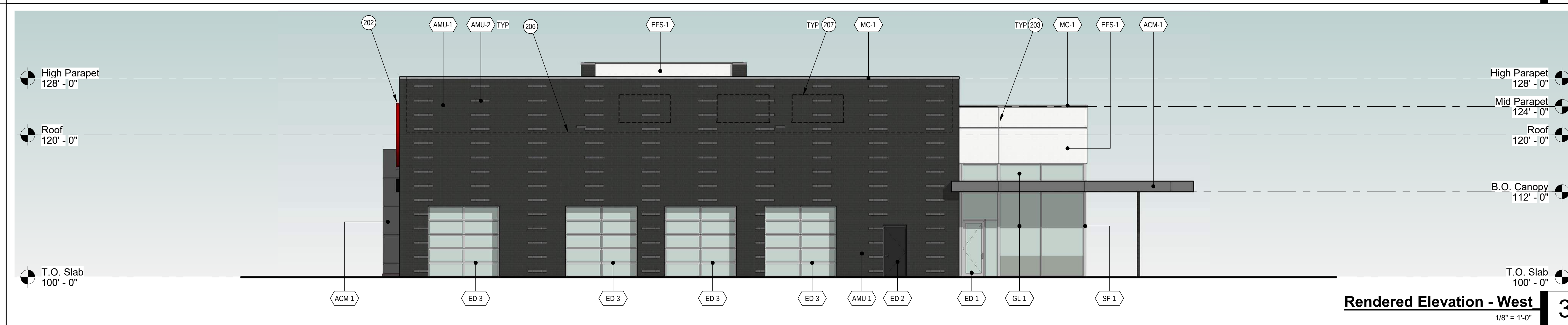
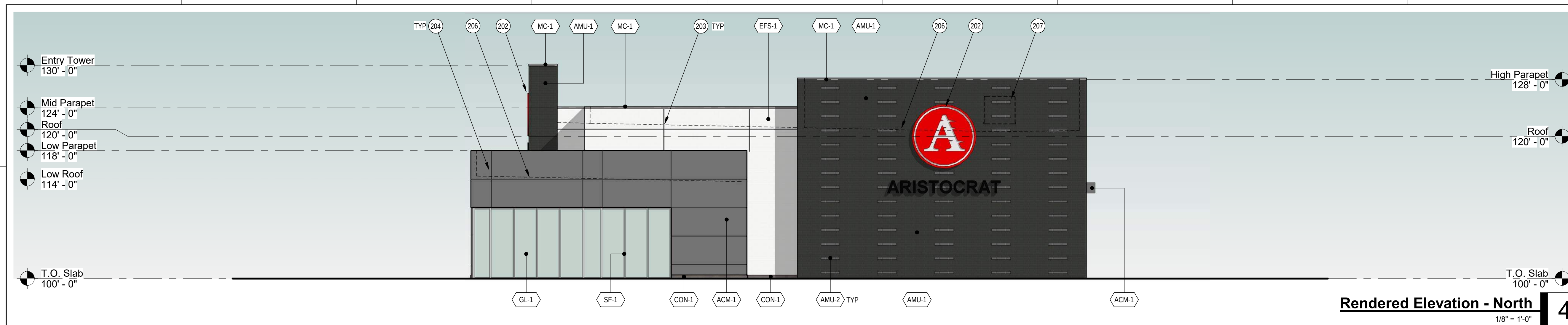
**Preliminary Development
Plan Resubmittal**

07/15/2019

FLOOR PLAN

A1



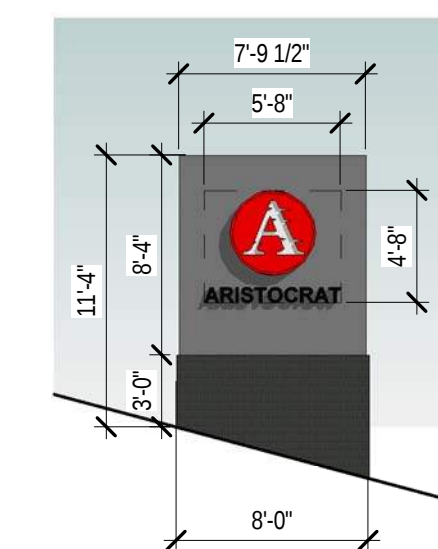


MATERIALS

ACM-1	ALUMINUM WALL PANEL MANUFACTURER: ALPOC COLOR/FINISH: MICA M5 GREY
AMU-1	ARCHITECTURAL MASONRY UNIT 4 X 16 RUNNING BOND MANUFACTURER: YORK BUILDING PRODUCTS COLOR/FINISH: GEMSTONE - MINK (GLOSSY)
AMU-2	ARCHITECTURAL MASONRY UNIT 4 X 16 RUNNING BOND MANUFACTURER: YORK BUILDING PRODUCTS COLOR/FINISH: GEMSTONE - MINK (MATT)
CON-1	CAST IN PLACE CONCRETE WALL CURB COLOR/FINISH: TBD
ED-1	WIDES TILE ALUMINUM STOREFRONT DOOR MANUFACTURER: KAWNEER COLOR/FINISH: (MATCH SF-1 AND GL-1)
ED-2	FLUSH HOLLOW CORE STEEL DOOR WITH PERFORMANCE COATING COLOR/FINISH: TBD
ED-3	OVERHEAD GLASS AND ALUMINUM FRAME SECTIONAL DOOR MANUFACTURER: TBD COLOR/FINISH: (MATCH SF-1 AND GL-1)
EF5-1	EXTERIOR INSULATED FINISH SYSTEM (EIFS) MANUFACTURER: TBD COLOR/FINISH: FINE TEXTURE - 612 MOONLIGHT
GL-1	CLEAR INSULATED LOW-E GLAZING MANUFACTURER: AGC ENERGY SELECT 40
MC-1	PRE-FINISHED METAL COPING MANUFACTURER: BERRIDGE MFG. COLOR/FINISH: LEAD-COTE
SF-1	ALUMINUM STOREFRONT SYSTEM MANUFACTURER: KAWNEER COLOR/FINISH: CLEAR ANODIZED

○ KEYNOTES

201	STRUCTURAL COLUMN WITH HIGH PERFORMANCE COATING COLOR/FINISH: TBD
202	WALL MOUNTED BUILDING SIGNAGE BY OWNER
203	EIFS "V" GROOVE REVEAL
204	ACM JOINT / REVEAL
205	TRANSLUCENT FILM APPLIED TO LOWER PORTION OF GLAZING
206	LINE OF ROOF BEYOND PARAPET
207	ROOF TOP UNIT (RTU) BEYOND PARAPET



Monument Sign
1/8" = 1'-0"

SLAGGIE



ARCHITECTS

SLAGGIE ARCHITECTS, INC. © 2019
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Aristocrat Pre-Owned Sales Building

New Construction

Soave Automotive Group

Lee's Summit, MO

#	Revisions:
Project #:	180508
Preliminary Development Plan Resubmittal	
07/15/2019	

EXTERIOR ELEVATIONS

A2



Aristocrat Pre-Owned Sales Building

New Construction

Soave Automotive Group

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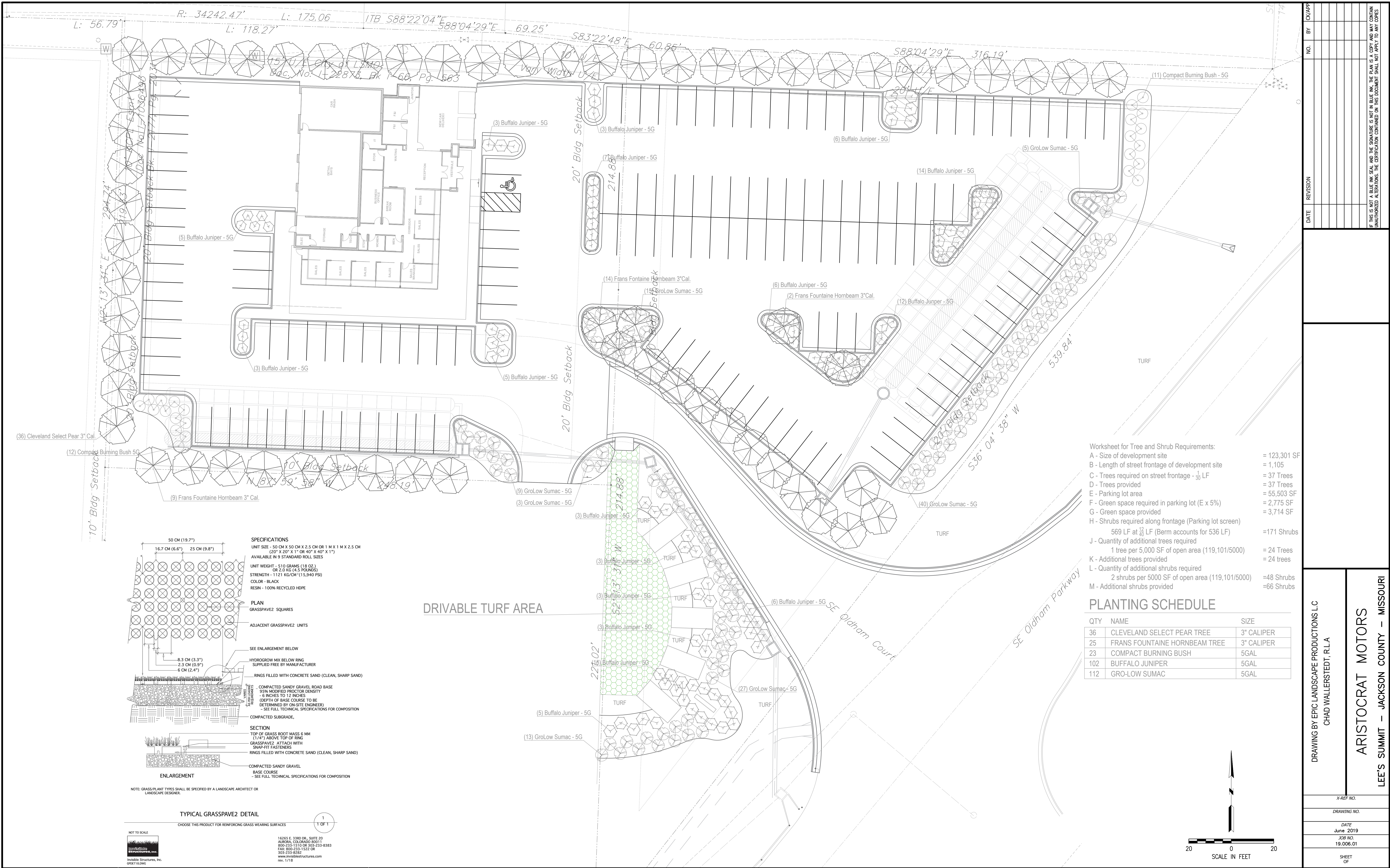
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**Preliminary Development
Plan Resubmittal**

07/15/2019

EXTERIOR EXHIBITS

A3



DRAWING BY EPIC LANDSCAPE PRODUCTIONS L.C.
CHAD WALLERSTEDT, R.L.A.

ARISTOCRAT MOTORS

LEE'S SUMMIT - JACKSON COUNTY - MISSOURI

X-REF NO.
DRAWING NO.
DATE
June 2019
JOB NO.
19,006.01
SHEET
OF

REV.

Aristocrat Pre-Owned Sales Building
New Construction
Soave Automotive Group
Lee's Summit, MO

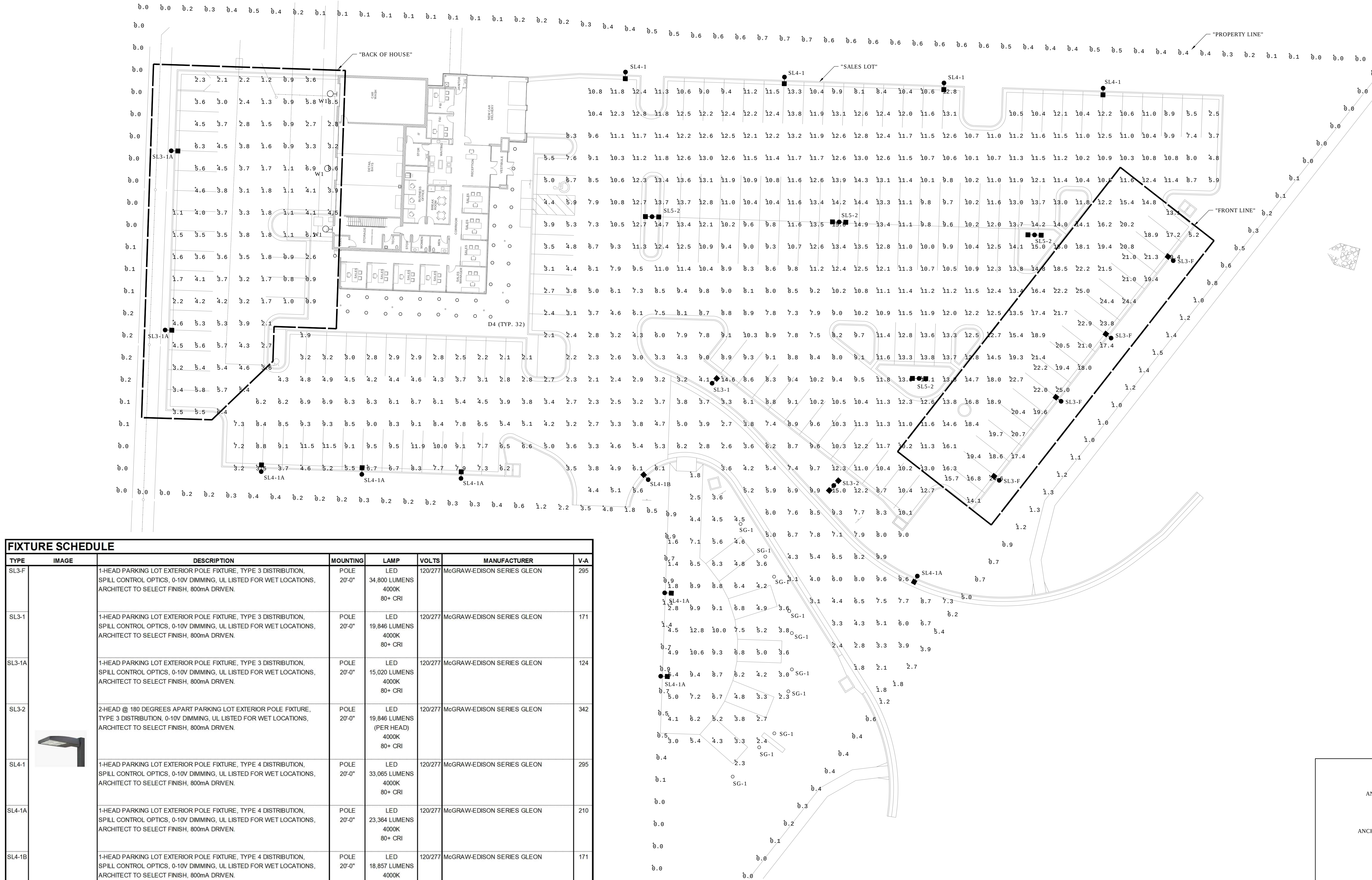
Revisions:

Project #: 180508

Preliminary Development
Plan
07/16/2019

SITE PLAN -
PHOTOMETRIC

LP101



FIXTURE SCHEDULE							
TYPE	IMAGE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
SL3-F		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 3 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 34,800 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	295
SL3-1		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 3 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 19,846 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	171
SL3-1A		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 3 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 15,020 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	124
SL3-2		2-HEAD @ 180 DEGREES APART PARKING LOT EXTERIOR POLE FIXTURE, TYPE 3 DISTRIBUTION, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 19,846 LUMENS (PER HEAD) 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	342
SL4-1		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 4 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 33,065 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	295
SL4-1A		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 4 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 23,364 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	210
SL4-1B		1-HEAD PARKING LOT EXTERIOR POLE FIXTURE, TYPE 4 DISTRIBUTION, SPILL CONTROL OPTICS, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 18,857 LUMENS 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	171
SL5-2		2-HEAD @ 180 DEGREES APART PARKING LOT EXTERIOR POLE FIXTURE, TYPE 5 DISTRIBUTION, 0-10V DIMMING, UL LISTED FOR WET LOCATIONS, ARCHITECT TO SELECT FINISH, 800mA DRIVEN.	POLE 20'-0"	LED 36,652 LUMENS (PER HEAD) 4000K 80+ CRI	120/277	McGRAW-EDISON SERIES GLEON	560
D4		4" DIAMETER RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, INTEGRAL 0-10V / 100-10% DIMMABLE DRIVER, OVERLAP TRIM, ARCHITECT TO SELECT TRIM FINISH, WIDE FLOOD DISTRIBUTION, REGRESSED LENS.	RECESSED GRID OR GYP BY LOCATION	LED 1500 LUMENS 4000K 80+ CRI	120/277	WILLIAMS SERIES 4DR	14
SG-1		DIRECT BURIAL IN-GRADE FLOODLIGHT.	RECESSED GRADE	LED	120/277	KIM LIGHTING SERIES DBF	TBD
W		17"W X 8.5"H X 10.5"D EXTERIOR LED WALL PACK, UL LISTED FOR WET LOCATIONS, INTEGRAL 0-10V / 100-10% DIMMABLE DRIVER, VISUAL COMFORT WIDE DISTRIBUTION, ARCHITECT TO SELECT FINISH.	SURFACE WALL	LED 3000 LUMENS 4000K 80+ CRI	120/277	LITHONIA SERIES WST	30

CALCULATION SUMMARY					
AREA NAME	AVE	MAX	MIN	AVGMIN	MAXMIN
PROPERTY LINE	0.56	6.2	0.0	N/A	N/A
SALES LOT	9.00	15.0	1.8	5.0	8.3
FRONT LINE	19.50	25.0	5.2	3.8	4.8
BACK OF HOUSE	3.40	8.6	0.9	3.8	9.6

NOTES:
1. ILLUMINANCE VALUES ARE IN FOOTCANDLES

SITE PLAN - PHOTOMETRIC
SCALE: 1"=20'-0"

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	GARRETT KLINGLER 816-401-7559 GARRETT.KLINGLER@ADS-PIPE.COM
ADS SALES REP:	JOHN WHITWOOD 816-805-5570 JOHN.WHITWOOD@ADS-PIPE.COM
PROJECT NO:	181081



KANSAS CITY MOTORS

LEE'S SUMMIT, MO

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm) MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT: WEST

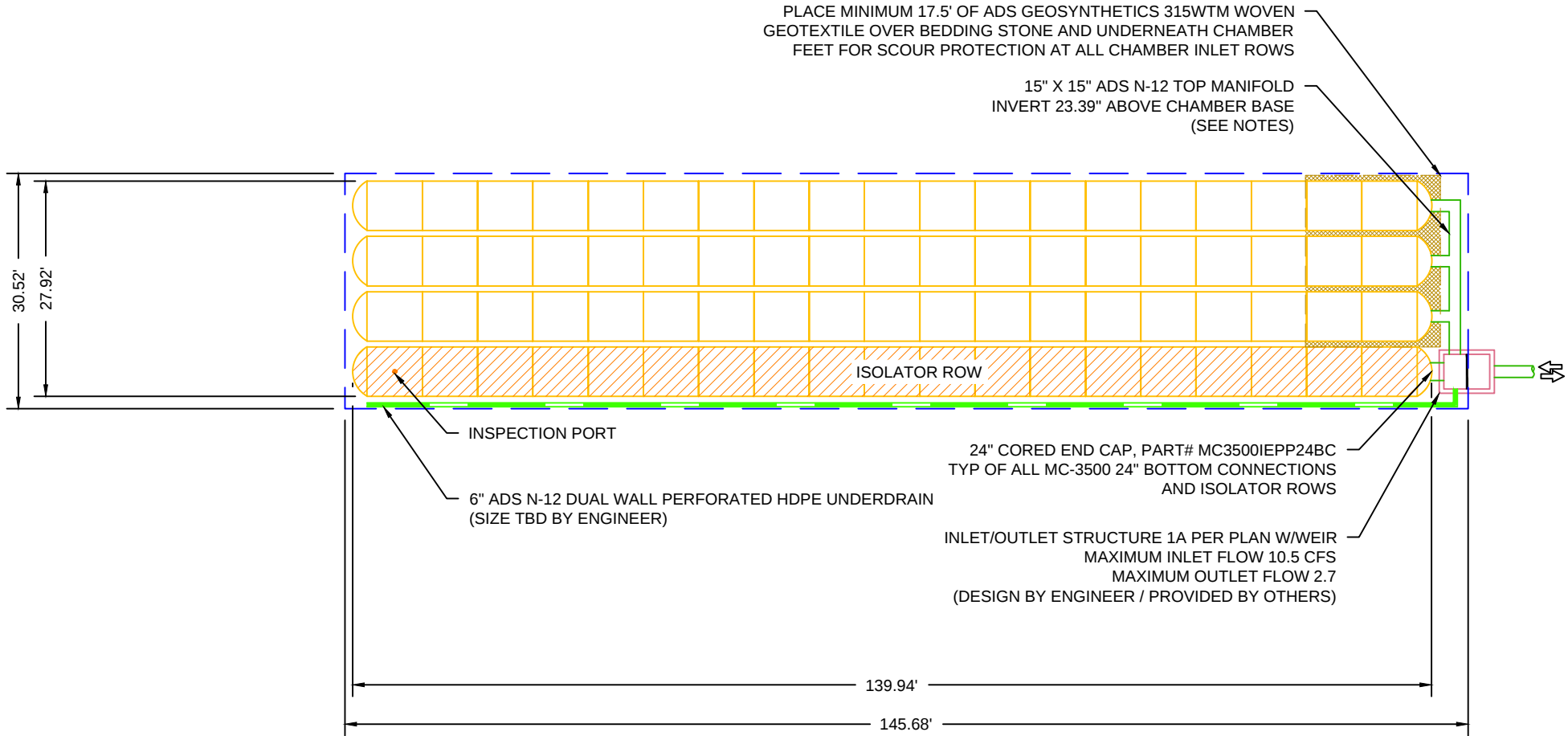
76	STORMTECH MC-3500 CHAMBERS
8	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
14,865	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
4,445	SYSTEM AREA (ft²)
354	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS: WEST

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	1024.90
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	1019.40
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	1018.90
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	1018.90
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):	1018.90
TOP OF STONE:	1017.90
TOP OF MC-3500 CHAMBER:	1016.90
15" TOP MANIFOLD INVERT:	1015.10
24" ISOLATOR ROW INVERT:	1013.32
BOTTOM OF MC-3500 CHAMBER:	1013.15
UNDERDRAIN INVERT:	1012.40
BOTTOM OF STONE:	1012.40

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



KANSAS CITY MOTORS

LEE'S SUMMIT, MO

DATE: 03-16-17

DRAWN: AMD

PROJECT #: 181081

CHECKED: GFI

DESCRIPTION

REV

DWN

CKD



StormTech

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ADS

ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEJMAN BLVD

HILLIARD, OH 43026

020'40'

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2

SHEET

OF

6

PROPOSED LAYOUT

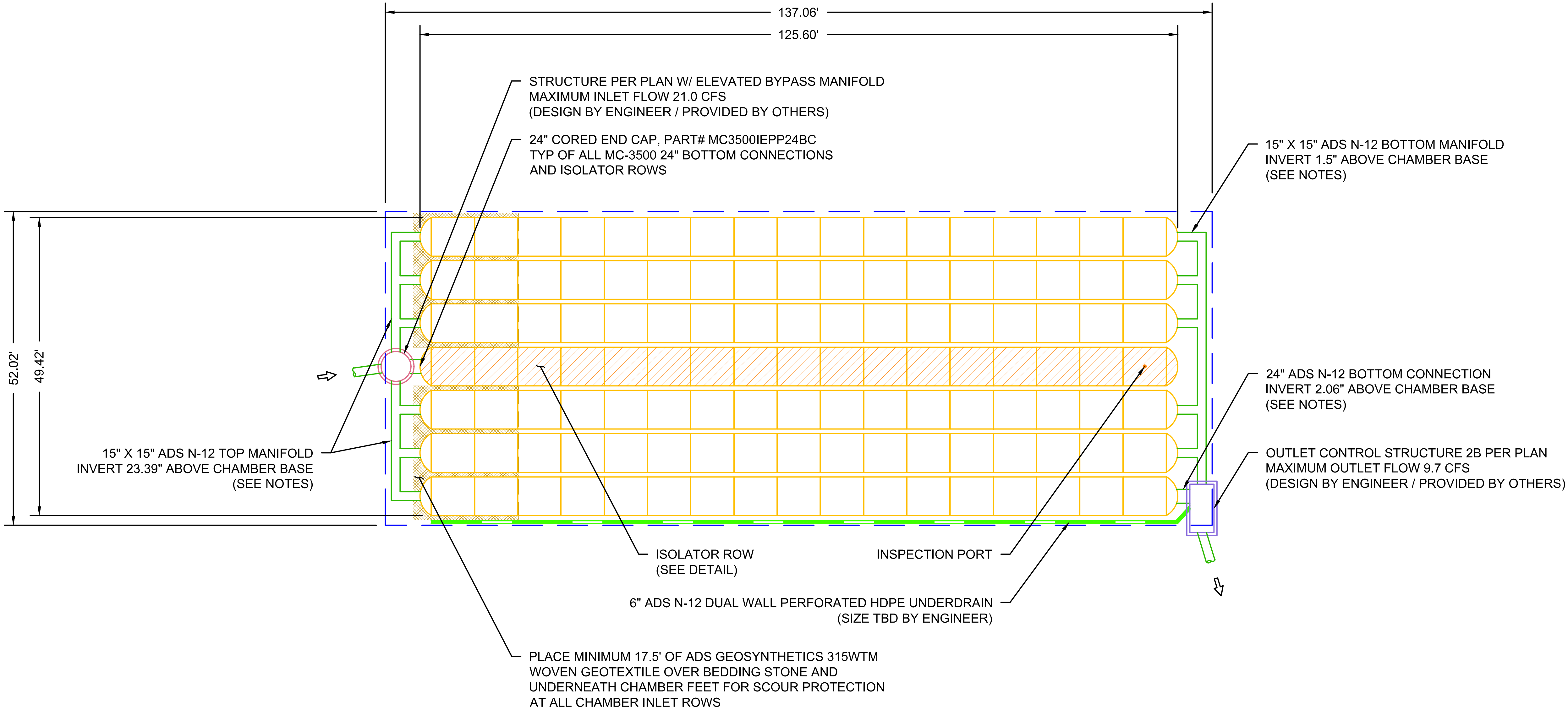
119	STORMTECH MC-3500 CHAMBERS
14	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
23,662	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
7,130	SYSTEM AREA (ft²)
378	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	1019.20
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	1013.70
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	1013.20
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	1013.20
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):	1013.20
TOP OF STONE:	1012.20
TOP OF MC-3500 CHAMBER:	1011.20
15" TOP MANIFOLD INVERT:	1009.40
24" ISOLATOR ROW INVERT:	1007.62
15" BOTTOM MANIFOLD / CONNECTION INVERT:	1007.58
BOTTOM OF MC-3500 CHAMBER:	1007.45
UNDERDRAIN INVERT:	1006.70
BOTTOM OF STONE:	1006.70

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



REV

DWN

CKD

DESCRIPTION

03-05-18

VLW

EMH

EXPANDED EAST BED

03-09-18

VLW

EMH

UPDATED PER ENGINEER'S PLANS

03-09-18

AGC

REV

OCS CONNECTION SIZES

DATE:

03-16-17

DRAWN:

AMD

PROJECT #:

181081

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4DS

ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEMAN BLVD
HILLIARD, OH 43026

0

20'

40'

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3

OF

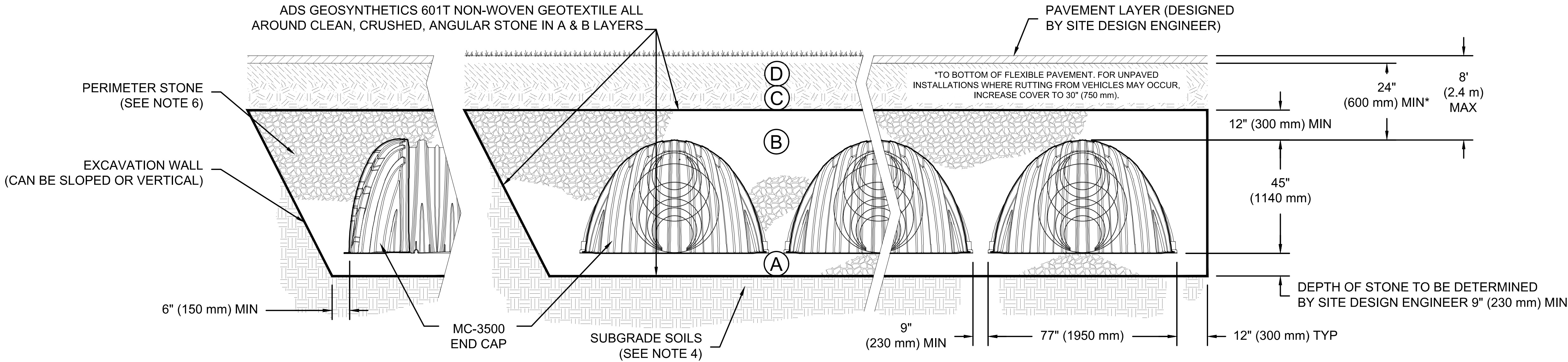
6

SHEET

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2 3}

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

REV

DWN

CKD

DESCRIPTION

03-05-18	VLW	EMH	EXPANDED EAST BED
03-09-18	VLW	EMH	UPDATED PER ENGINEER'S PLANS
03-09-18	AGC		REV. OCS CONNECTION SIZES

DATE:

PROJECT #:

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4DS

ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEMAN BLVD
HILLIARD, OH 43026

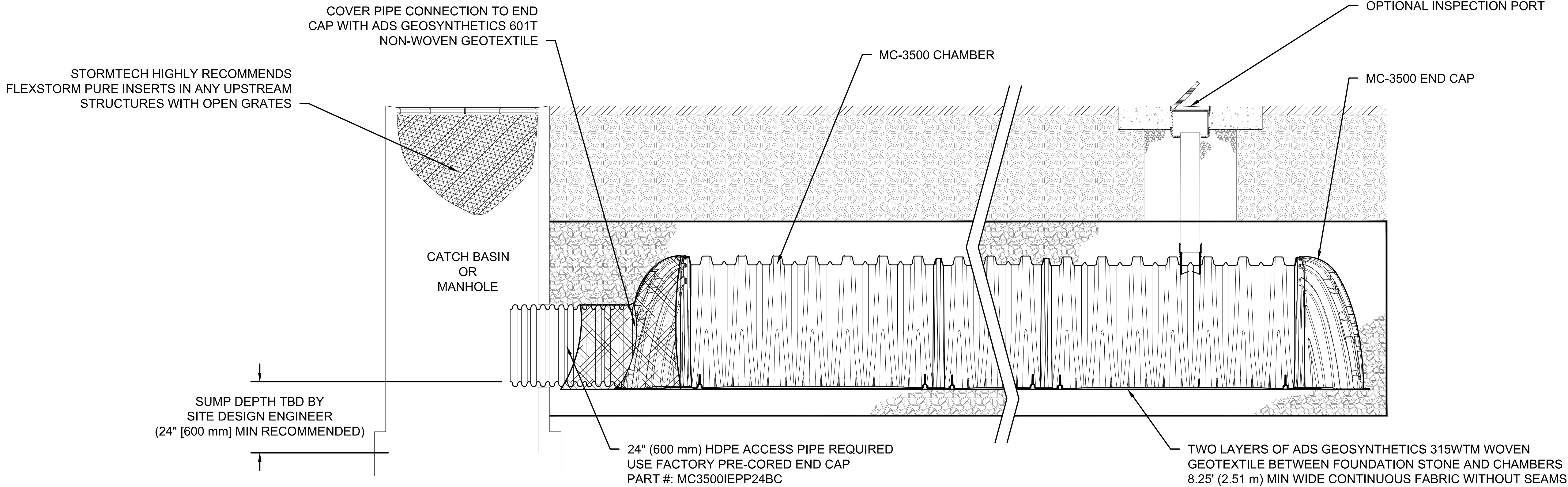
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SHEET

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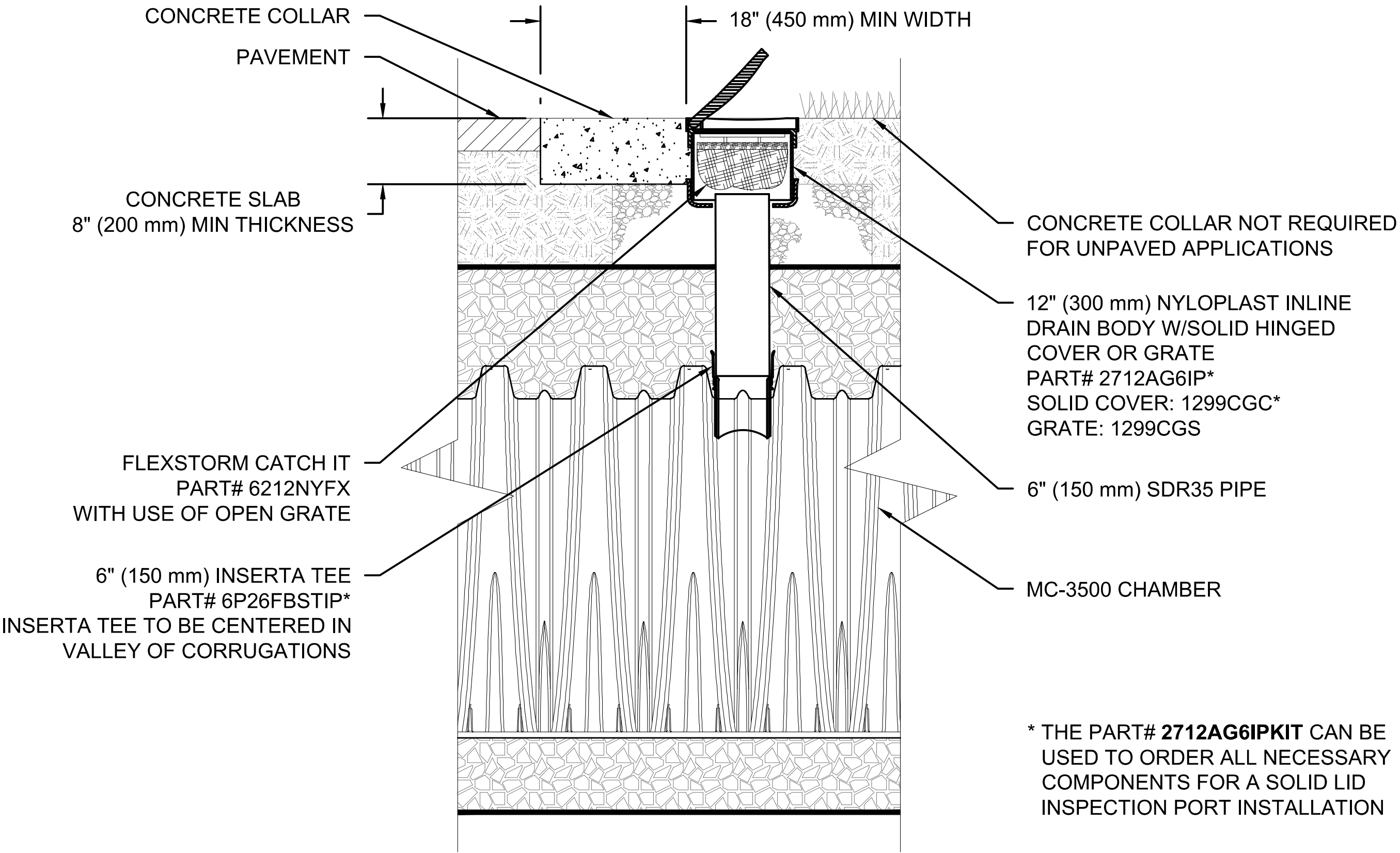
MC-3500 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

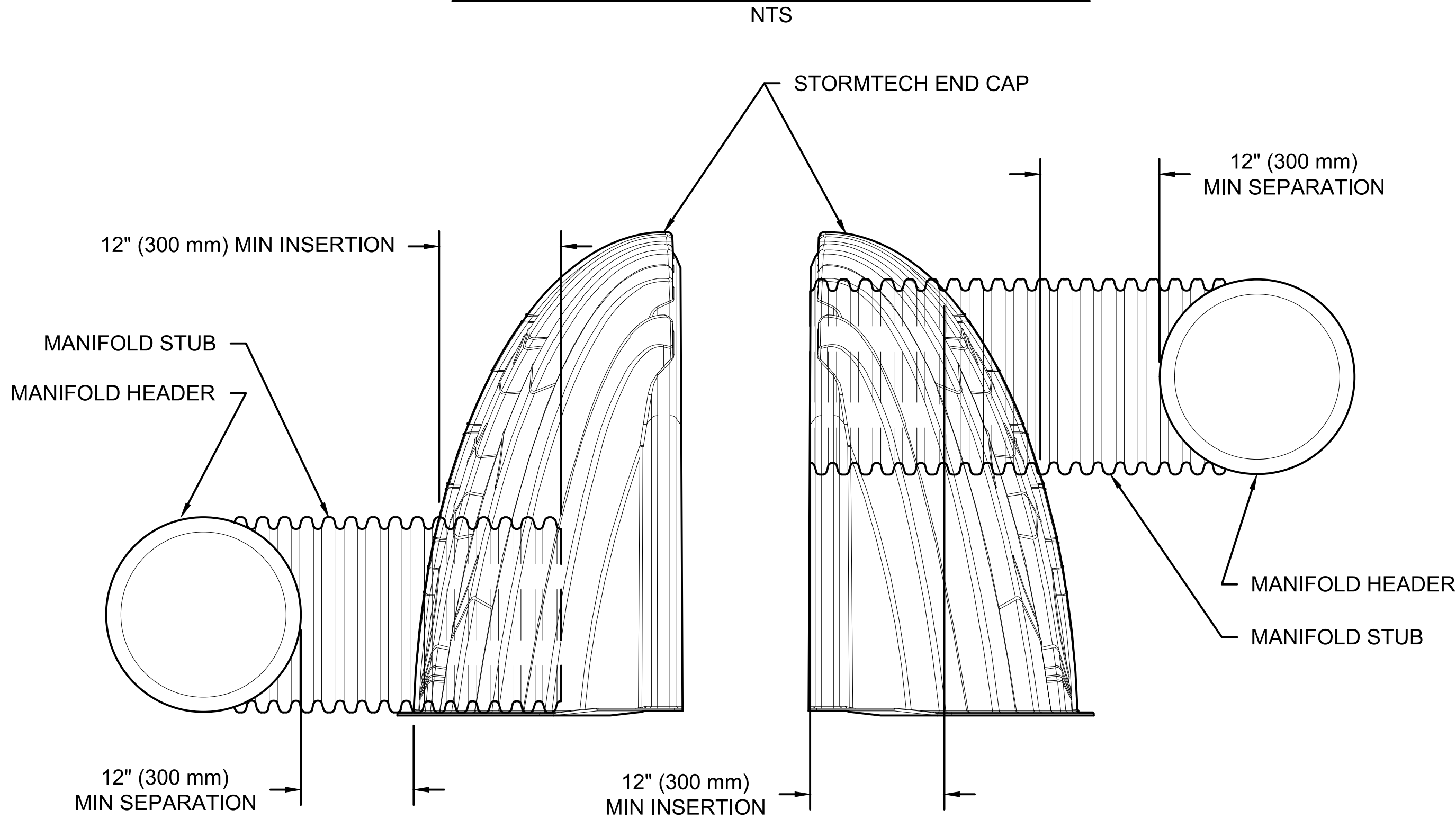
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



MC-3500 6" INSPECTION PORT DETAIL
NTS

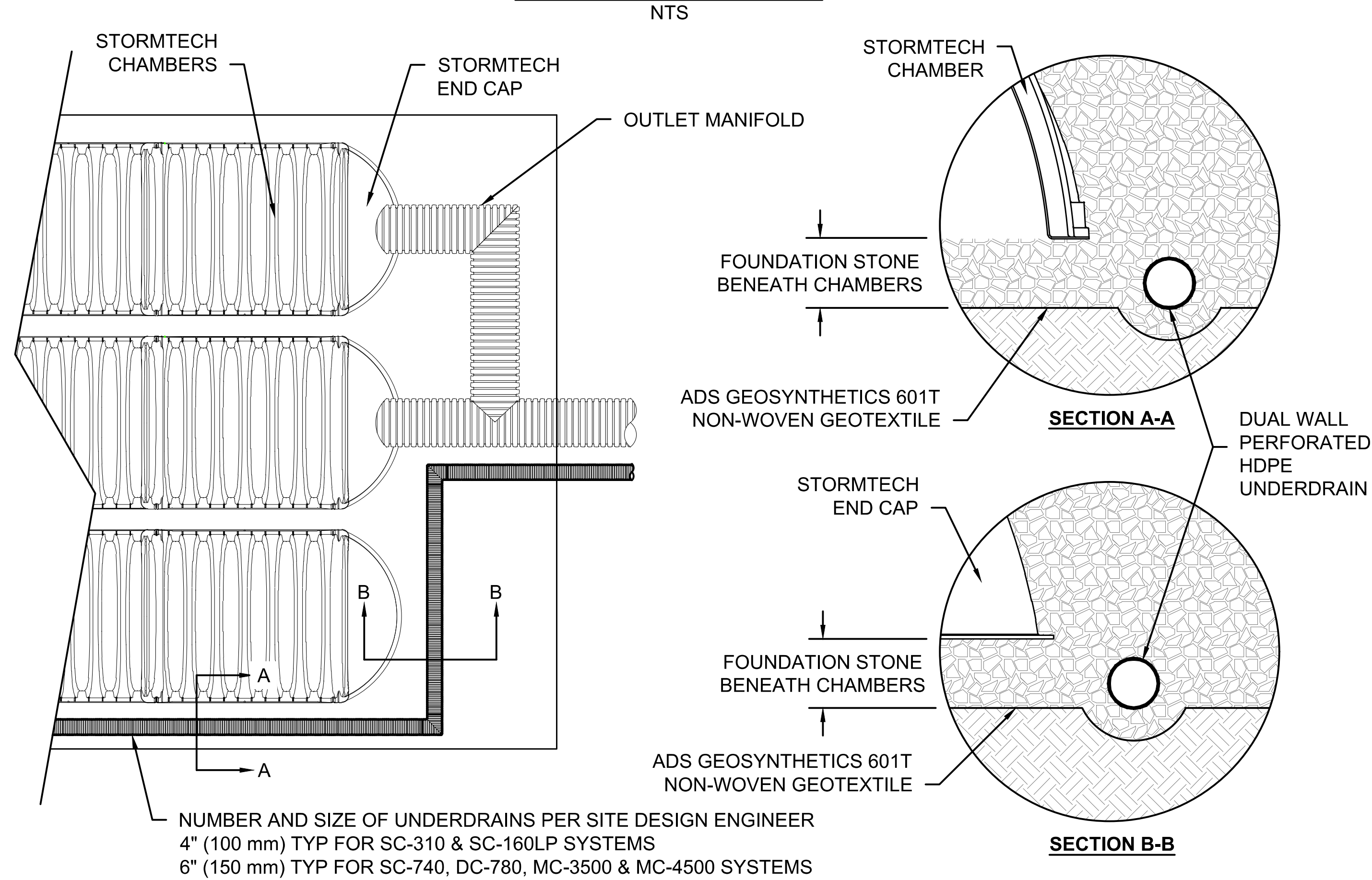
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	LEE'S SUMMIT, MO	
	DATE: 03-16-17	DRAWN: AMD
	PROJECT #: 181081	CHECKED: GFI
4640 TRUEJMAN BLVD HILLIARD, OH 43026  ADVANCED DRAINAGE SYSTEMS, INC.	DESCRIPTION	CKD
	EXPANDED EAST BED	EMH
	UPDATED PER ENGINEER'S PLANS	EMH
	REV. OCS CONNECTION SIZES	AGC
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5	SHEET OF	6

MC-SERIES END CAP INSERTION DETAIL

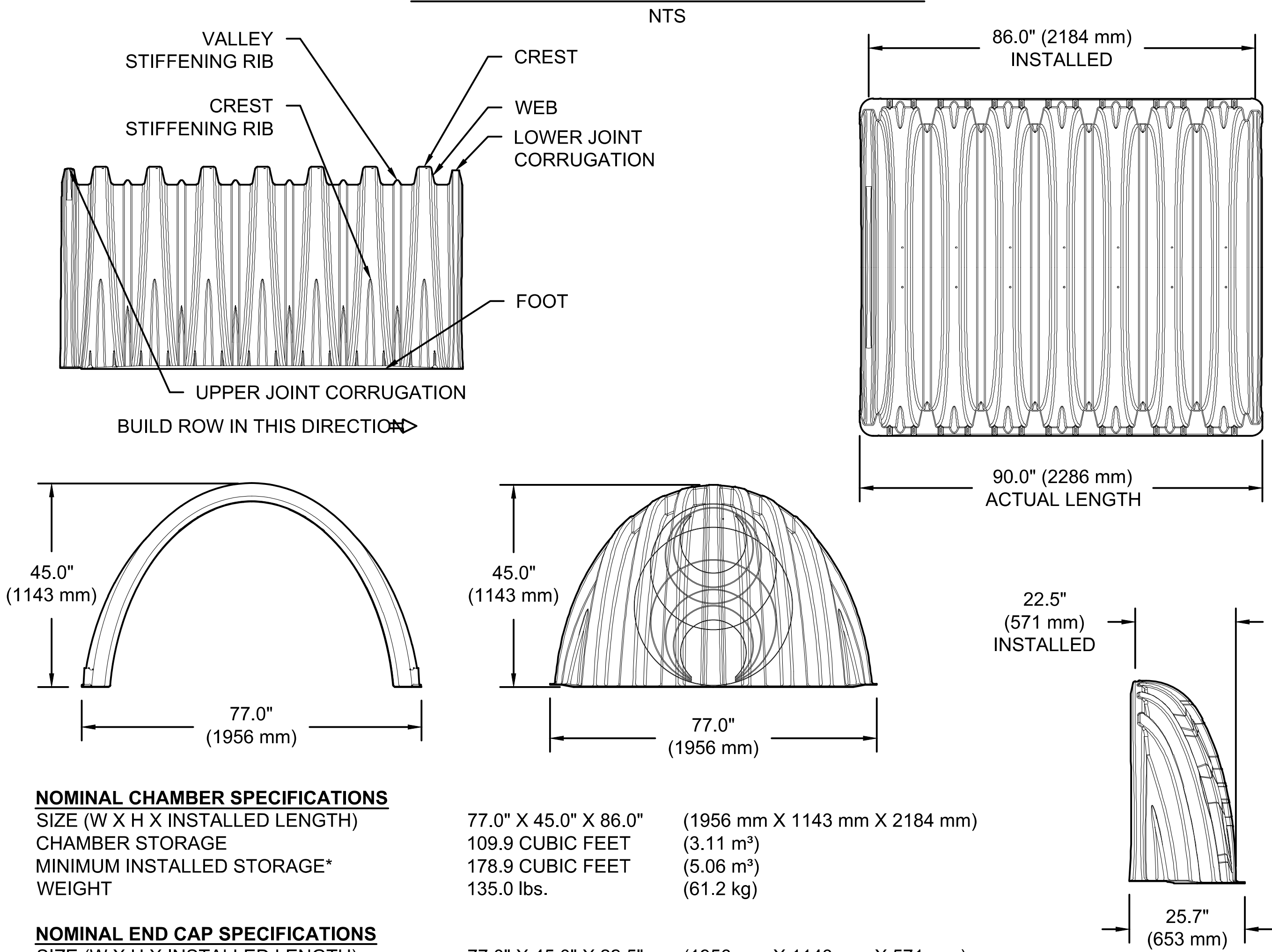


NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

UNDERDRAIN DETAIL



MC-3500 TECHNICAL SPECIFICATION



STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP30BC	30" (750 mm)	---	---

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECURED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm) THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.



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KANSAS CITY MOTORS

LEE'S SUMMIT, MO

DATE: 03-16-17 DRAWN: AMD

PROJECT #: 181081 CHECKED: GFI

DESCRIPTION

EXPANDED EAST BED

UPDATED PER ENGINEER'S PLANS

REV. OCS CONNECTION SIZES

REV. OCS CONNECTION SIZES

REV. OCS CONNECTION SIZES

REV. OCS CONNECTION SIZES

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