# FINAL SITE DEVELOPMENT PLAN **FOR**

# CALIBER COLLISION

# 710 SE BLUE PARKWAY LEE'S SUMMIT, MO 64063

JACKSON COUNTY, MISSOURI

# UTILITIES/GOVERNING AGENCIES CONTACTS:

SANITARY SEWER

LEE'S SUMMIT WATER UTILITIES 1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1900

SPIRE

3025 SE CLOVER DR LEE'S SUMMIT, MO 64082 CONTACT: BOBBIE SAULSBERRY PHONE: (816) 969-2266 EMAIL: BOBBIE.SAULSBEERY@SPIREENERGY.COM TELEPHONE/ CABLE

2121 E. 63RD STREET, CIOI KANSAS CITY, MO 64130 CONTACT: DARRIN SHEPARD PHONE (O): (816) 772-0336 PHONE (C): (816) 535-7658 EMAIL: DS616H@ATT.COM

LEE'S SUMMIT WATER UTILITIES 1200 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64063

PHONE: (816) 969-1900

1300 SE HAMBLEN ROAD LEE'S SUMMIT, MO 64081 CONTACT: DOUG DAVIN PHONE: (816) 347-4320 EMAIL: DOUG.DAVINOEVERGY.COM

# ADDITIONAL GOVERNING AGENCIES CONTACTS:

DEVELOPMENT SERVICES CITY OF LEE'S SUMMIT

DEVELOPMENT SERVICES 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1200

FIRE PREVENTION CITY OF LEE'S SUMMIT FIRE DEPARTMENT 207 S.E. DOUGLAS LEE'S SUMMIT, MO 64063

CONTACT: JIM EDEN

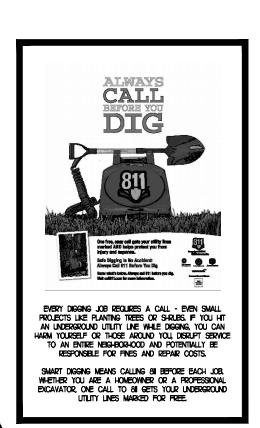
PHONE: (816) 969-1313

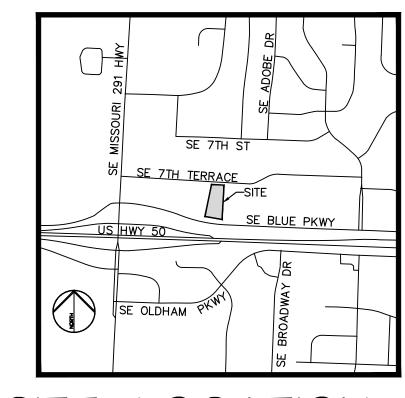
MoDOT - KANSAS CITY DISTRICT 600 NE COLBERN ROAD LEE'S SUMMIT, MO 64086

CONTACT: MELISSA BLACK PHONE: (816) 607-2153

STORMWATER MANAGEMENT CITY OF LEE'S SUMMIT -PUBLIC WORKS 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PHONE: (816) 969-1800

EROSION CONTROL & WATER QUALITY MODNR - KANSAS REGIONAL OFFICE 500 NE COLBERN ROAD LEE'S SUMMIT, MO 64086 CONTACT: KAREN ROUSE PHONE: (816) 251-0700 EMAIL: KAREN,ROUSE, ODNR,MO,GOV





SITE LOCATION MAP (NOT TO SCALE)

DEPARTMENT OF TRANSPORTATION

EMAIL: MELISSA.BLACKOMODOT.MO.GOV

INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12", WHICHEVER IS LESS, CONTACT FREELAND & KAUFFMAN, INC. (864-233-5497) AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

**GENERAL NOTES** 

- 2. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE/SHE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. OWNER AND FREELAND & KAUFFMAN, INC. ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
- 4. CALL UTILITY LOCATOR SERVICE 72 HOURS IN ADVANCE OF DIGGING AT 811.
- 6. ALL CURB/HANDICAP RAMP DESIGNS SHALL CONFORM TO ADA STANDARDS OR CITY OF LEE'S SUMMIT STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
- 7. PRE-CAST DRAINAGE AND SANITARY SEWER STRUCTURES HAVE BEEN SPECIFIED ON THE PLANS. OWNER AND FREELAND & KAUFFMAN, INC., HOWEVER, ASSUME NO RESPONSIBILITY FOR THESE STRUCTURES AS FIELD CONDITIONS DURING CONSTRUCTION OFTEN DICTATE MINOR ELEVATION ADJUSTMENTS. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND EXPENSE FOR MODIFYING THESE STRUCTURES TO ACCOMMODATE THESE FIELD ADJUSTMENTS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING TO FREELAND & KAUFFMAN, INC. AS-BUILT WATER AND SEWER INFORMATION, TO ENABLE FREELAND AND KAUFFMAN, INC. TO PREPARE THE REQUIRED AS-BUILT/RECORD DRAWINGS TO OBTAIN PERMITS TO PLACE UTILITIES INTO OPERATION. THE CONTRACTOR IS ALSO REQUIRED TO PROVIDE FREELAND AND KAUFFMAN COPIES OF THE WATER AND SEWER PRESSURE TESTS, WATER MAIN BACTERIOLOGICAL TESTS, BACKFLOW PREVENTION TESTS BY A CERTIFIED BACKFLOW PREVENTION SPECIALIST, ETC. CONTRACTOR SHALL NOTIFY FREELAND & KAUFFMAN, INC. AT LEAST 72 HOURS IN ADVANCE OF ALL UTILITY TESTING.
- 9. ALL WATER LINE AND SEWER LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF THE CITY OF LEE'S SUMMIT'S DESIGN AND CONSTRUCTION MANUAL.
- IO. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THESE STANDARDS.
- II. THE LAND DISTURBANCE PERMIT MUST BE KEPT ON THE WORK SITE AND SHOWN UPON
- 12. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES REQUIRED BY CITY OF LEE'S SUMMIT AND LEE'S SUMMIT WATER UTILITIES
- 13. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
- 14. SEDIMENT CONTROL MEASURES MUST BE INSPECTED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS OF QUALIFYING STORM EVENTS, AND MAINTAINED AS NEEDED TO INSURE THAT THE INTENDED PURPOSES ARE ACCOMPLISHED.
- 15. ALL PRE-CAST DRAINAGE AND MANHOLE STRUCTURES MUST MEET CITY OF LEE'S SUMMIT AND MODOT SPECIFICATIONS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF A MISSOURI REGISTERED LAND SURVEYOR ON-SITE TO PROVIDE ALL CONSTRUCTION STAKE-OUT SERVICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSURING THE SURVEYOR IS IN POSSESSION OF THE LATEST REVISIONS OF ALL PLANS.
- 15. A CITY OF LEE'S SUMMIT AND MODOT ENCROACHMENT PERMITS ARE REQUIRED FOR ALL WORK WITHIN THE PUBLIC ROADWAY RIGHT-OF-WAY.
- 16. THE FINANCIAL RESPONSIBILITY (FRO) AND NPDES COVERAGE LETTER MUST BE KEPT ON THE JOB SITE AND SHOWN UPON REQUEST.
- 17. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH AN INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

# Sheet List Table

Sheet	Number	Sheet Title
234567890    1213141516178190212234551.  OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO		COVER SHEET SURVEY DEMOLITION PLAN EROSION CONTROL PHASE EROSION CONTROL DETAILS EROSION CONTROL DETAILS EROSION CONTROL DETAILS SITE PLAN SITE DETAILS UNLET AREA MAP STORM PROFILES STORM DETAILS UGD DETAILS UGD DETAILS UGD DETAILS UTILITY PLAN UTILITY DETAILS UTILITY DETAILS LANDSCAPE PLAN LANDSCAPE DETAILS SIGHT DISTANCE EXHIBIT TRASH ENCLOSURE DETAIL BUILDING ELEVATIONS FOUNDATION DETAILS PHOTOMETRIC PLAN LIGHTING PLAN LIGHTING PLAN

### **REVISIONS**

DATE



FAX (864) 233-8915

**ENGINEER-**FREELAND and KAUFFMAN, INC. 209 WEST STONE AVENUE GREENVILLE, SC 29609 TELEPHONE (864) 233-5497

> DEVELOPER/OWNER-CROSS DEVELOPMENT CC LEE'S SUMMIT, LLC. 4336 MARSH RIDGE RAOD CARROLLTON, TX 75010 **CONTACT: NICK FORE** TELEPHONE (214) 614-8252

SHEET I ISSUED FOR BID DECEMBER 20, 2021

ASSOCIATES, IN

Consulting
Civil
Electrical
Mechanical
Engineers

A/NSPS SURVEY
CHAPMAN PLAZA II
N 8, TOWNSHIP 47 NORTH,
NGE 31 WEST
nit, Jackson County, Missou

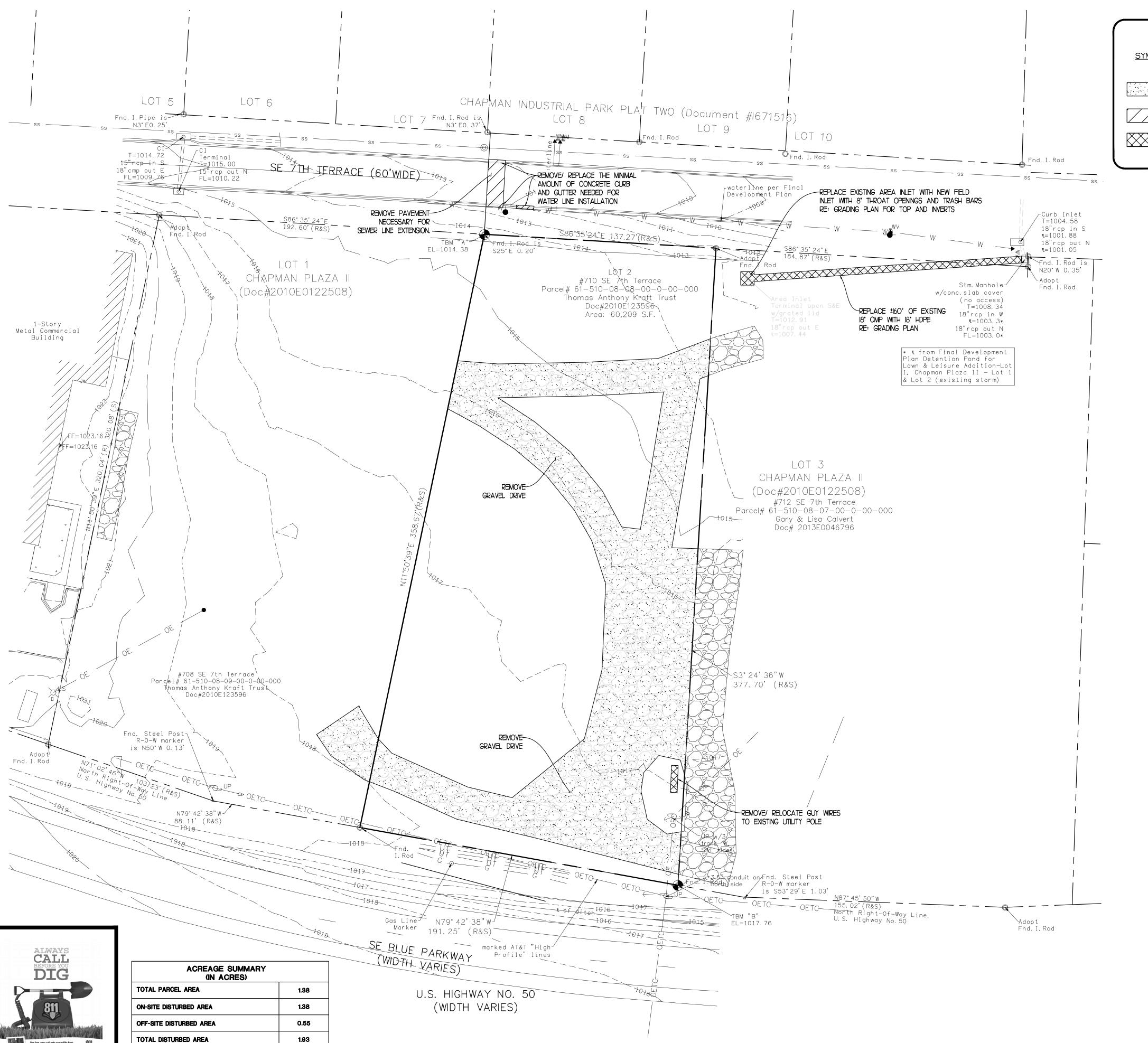
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REVISIONS

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1\_\_of\_\_<sup>1</sup> JOB NO. 211029



**IMPERVIOUS AREA PRE-CONSTRUCTION** 

PERVIOUS AREA PRE-CONSTRUCTION

**IMPERVIOUS AREA POST-CONSTRUCTION** 

PERVIOUS AREA POST-CONSTRUCTION

IMPERVIOUS AREA INCREASE (PRE VS POST)

(ON-SITE ONLY & INCLUDES GRAVEL)

**IMPERVIOUS PERCENTAGE** 

0.48

0.90

0.90

0.48

0.42

65.2%

Safe Digging Is No Accident:

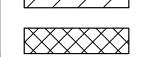
EVERY DIGGING JOB REQUIRES A CALL — EVEN SMALL PROJECTS LIKE PLANTING TREES OR SHRUBS. IF YOU HIT AN UNDERGROUND UTILITY LINE WHILE DIGGING, YOU CAN HARM YOURSELF OR THOSE AROUND YOU, DISRUPT SERVICE TO AN ENTIRE NEIGHBORHOOD AND POTENTIALLY BE RESPONSIBLE FOR FINES AND REPAIR COSTS.

SMART DIGGING MEANS CALLING 811 BEFORE EACH JOB. WHETHER YOU ARE A HOMEOWNER OR A PROFESSIONAL EXCAVATOR, ONE CALL TO 81 GETS YOUR UNDERGROUND UTILITY LINES MARKED FOR FREE. <u>LEGEND</u>

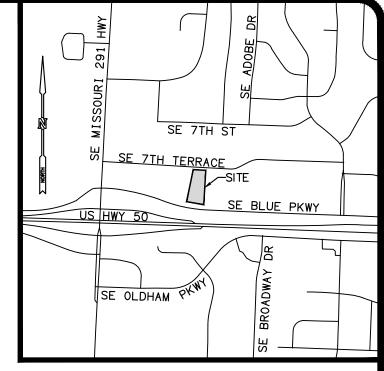
SYMBOL DESCRIPTION (TO BE REMOVED)

GRAVEL DEMO

ASPHALT/ CONCRETE DEMO



UTILITY/STORM DEMO



LOCATION MAP

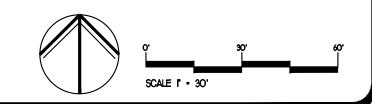
#### **DEMOLITION PLAN NOTES:**

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 3. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- . ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS.
- ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 6. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE AUTHORITIES.
- 8. UTILITY CONTACTS ARE LISTED ON THE COVER SHEET.
- 9. EROSION AND SEDIMENTATION CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. REFER TO SWPP PLAN FOR DETAILS.
- IO. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- II. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 12. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 13. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- 14. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES.
- 15. DEMOLITION CONTRACTOR SHALL COORDINATE EXISTING FACILITIES UTILITY DISCONNECTS WITH THE OWNER'S REPRESENTATIVE A MINIMUM 7 DAYS PRIOR TO ANTICIPATED DEMOLITION OF STRUCTURES.
- I6. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- 17. CONTRACTOR SHALL REMOVE AIR CONDITION UNITS / FREON IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 18. ALL UTILITY OR SERVICE LINES THAT UNDERLIE THE PROPOSED STRUCTURES SHALL BE REMOVED. ALL STORM AND SANITARY SEWER LINES THAT LIE BENEATH A IH:IV LINE EXTENDING FROM THE BASE OF FOUNDATIONS FOR FREE STANDING FOUNDATIONS FOR LOAD BEARING WALLS SHOULD BE REMOVED OR PRESSURE-GROUTED IN-PLACE.

#### VOTE:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- DEMOLITION CONTRACTOR SHALL COORDINATE EXISTING FACILITIES
  UTILITIES DISCONNECTS WITH OWNER'S REPRESENTATIVE A MINIMUM 7
  DAYS PRIOR TO ANTICIPATED DEMOLITION OF STRUCTURES.
  CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT
- PREPARED BY INTERTEK PSI DATED MAY 21, 2021 FOR INFORMATION
  ON THE REMOVAL OF EXISTING IN SITU MATERIALS AND HARDSCAPE.

DEMOLITION PLAN

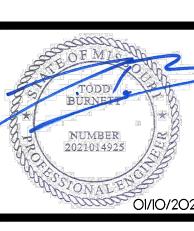


REVISIONS BY

AUFFMAN, INC TOP Architects

Avenue

yineers \* Landscape Arch,209 West Stone AvenueGreenville, South Carolina 296( 864-233-5497fax 864-233-8915



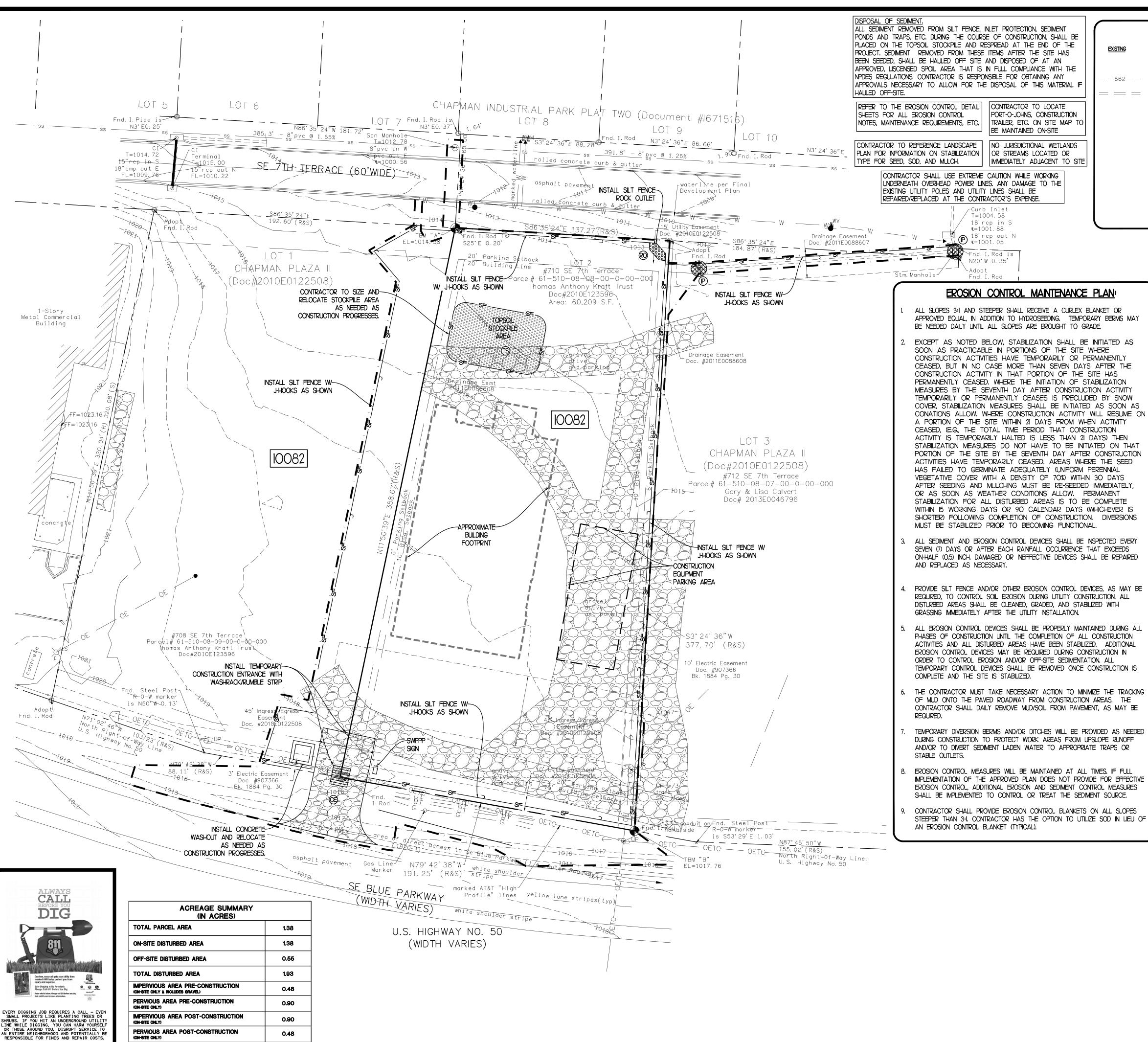
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ELOPMENT, CC LEE'S SUMMIT, LLC
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PERVIOUS AREA POST-CONSTRUCTION

IMPERVIOUS PERCENTAGE

IMPERVIOUS AREA INCREASE (PRE VS POST)

SMART DIGGING MEANS CALLING 811 BEFORE EACH JOB. WHETHER YOU ARE A HOMEOWNER OR A PROFESSIONAL EXCAVATOR, ONE CALL TO 81 GETS YOUR UNDERGROUND UTILITY LINES MARKED FOR FREE.

0.48

0.42

65.2%

ALL SEDIMENT REMOVED FROM SILT FENCE, INLET PROTECTION, SEDIMENT PONDS AND TRAPS, ETC. DURING THE COURSE OF CONSTRUCTION, SHALL BE PLACED ON THE TOPSOIL STOCKPILE AND RESPREAD AT THE END OF THE PROJECT. SEDIMENT REMOVED FROM THESE ITEMS AFTER THE SITE HAS BEEN SEEDED, SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED, LISCENSED SPOIL AREA THAT IS IN FULL COMPLIANCE WITH THE NPDES REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY APPROVALS NECESSARY TO ALLOW FOR THE DISPOSAL OF THIS MATERIAL

REFER TO THE EROSION CONTROL DETAIL | CONTRACTOR TO LOCATE NOTES, MAINTENANCE REQUIREMENTS, ETC.

PORT-O-JOHNS, CONSTRUCTION TRAILER, ETC. ON SITE MAP TO BE MAINTAINED ON-SITE

CONTRACTOR TO REFERENCE LANDSCAPE

NO JURISDICTIONAL WETLANDS PLAN FOR INFORMATION ON STABILIZATION | OR STREAMS LOCATED OR IMMEDIATELY ADJACENT TO SITE

CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING UNDERNEATH OVERHEAD POWER LINES, ANY DAMAGE TO THE EXISTING UTILITY POLES AND UTILITY LINES SHALL BE

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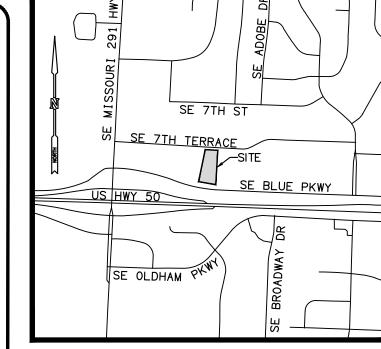
# <u>LEGEND</u>

DESCRIPTION LIMITS OF DISTURBANCE

TEMPORARY SILT FENCE

ROCK OUTLET

MULCH/PLANTED AREA PERMANENT SEEDED AREA



LOCATION MAP

SWPPP CONTACT DURING CONSTRUCTION CROSS DEVELOPMENT

DRAINAGE BASIN: MISSOURI RIVER WATERSHED

RECEIVING WATERS: EAST FORK LITTLE BLUE RIVER, TRIBUTARY OF THE BLUE RIVER MISSOURI RIVER WATERSHED

SOILS ON SITE: • 10082 - ARISBURG-URBAN LAND COMPLEX, I TO 5 PERCENT SLOPES (HYDROLOGIC SOIL GROUP C)

## SEQUENCE OF CONSTRUCTION

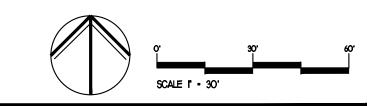
I. SUBMIT PLANS FOR REVIEW

- OBTAIN GRADING PERMIT (MAY INCLUDE PRE-CONSTRUCTION CONFERENCE). CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS REQUIRED FOR DEMOLITION AND LAND DISTURBANCE
- CONTRACTOR SHALL CONTACT CITY OF LEE'S SUMMIT DEVELOPMENT SERVICES TO SCHEDULE A PRECONSTRUCTION
- REMOVE THE MINIMAL AMOUNT OF PERIMETER SITE FEATURES IN ORDER TO INSTALL STABILIZED CONSTRUCTION EXIT AND SILT FENCE. ENSURE DRAINAGE IS DIRECTED TOWARDS SILT FENCE.
- INSTALL INLET PROTECTION AT THE EXISTING STORM STRUCTURE OFF THE NORTH EAST CORNER OF THE PROPERTY ON THE ADJACENT PROPERTY.
- INSTALL SWPPP SIGN, TEMPORARY STOCKPILE AREA, AND DESIGNATE AN AREA FOR THE PARKING OF CONSTRUCTION
- BEGIN DEMOLITION OF THE SITE FEATURES PER THE DEMOLITION PLAN, DO NOT BEGIN DEMOLITION OF THE PAVEMENT AND CONCRETE CURB ALONG SE 7TH TERRACE UNTIL READY TO BEGIN WATER MAIN INSTALLATION/ CONNECTION.
- INSTALL CONCRETE WASHOUT AT SITE ENTRANCE/ EXIT B. INSTALL TEMPORARY SEEDING AND MULCH STABILIZATION TO ALL AREAS WHERE WORK WILL BE CEASED FOR A PERIOD OF MORE THAN 7 DAYS.

9. CONTINUALLY INSPECT AND MAINTAIN ALL BMP'S. REPAIR AND REPLACE ANY BMP'S AS NEEDED.

- IO. BEGIN GENERAL GRADING OF SITE, APPLY PERMANENT SEEDING TO ALL AREAS AS SOON AS THEY ARE COMPLETE. DO NOT WAIT UNTIL JOB COMPLETION TO PERMANENTLY SEED DISTURBED AREAS. ADD EROSION CONTROL BLANKETS AS NEEDED FOR ALL AREAS WITH SLOPES THAT EXCEED 3:1.
- INSTALL UNDERGROUND DETENTION SYSTEM PER CONTECH'S SPECIFICATIONS AND THE GRADING PLAN. INSTALL STORM SEWERS AND STRUCTURES. INLET PROTECTION SHALL BE ADDED AT EACH STRUCTURE IMMEDIATELY AFTER THEY HAVE BEEN CONSTRUCTED. CONNECT TO EXISTING STORM STRUCTURE AS SHOWN, REPAIRING/REPLACING ANY APPURTENANCES AS NEEDED.
- 2. INSTALL UNDERGROUND UTILITIES AND COORDINATE WITH EACH UTILITY PROVIDER. BRING ALL BUILDING'S UTILITIES TO THE PROPOSED PAD LOCATION AND CAP FOR FUTURE CONNECTION. 13. INSTALL WATER LINE EXTENSION TO EXISTING MAIN NORTH OF
- SE 7TH TERRACE, IMMEDIATELY RE-PAVE ASPHALT AND INSTALL CURB & GUTTER PER CITY OF LEE'S SUMMIT STANDARDS AND
- 14. COMMENCE GRADING OF BUILDING PAD AND AREAS AROUND BUILDING PAD.
- 15. INSTALL CURB AND GUTTER AND FINE GRADE PARKING AREAS. STONE BASE SHALL BE INSTALLED IN ALL PAVED AREAS AS SOON AS PRACTICABLE, CONSTRUCTION EXIT SHALL BE REMOVED ONLY ONCE THE BUILDING PAD, PARKING LOT, AND DRIVEWAY HAVE BEEN STABILIZED WITH STONE BASE.
- 16. PAVE SITE AND INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
- 17. COMPLETE BUILDING CONSTRUCTION, SIDEWALKS, PLANTINGS, ETC. 18. REMOVE TEMPORARY BMP'S AS SOON AS THEIR CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED. SEED AND MULCH
- ANY DISTURBANCE FROM REMOVAL OF TEMPORARY BMP'S. 19. INSPECT/ CLEAN/ FLUSH UNDERGROUND DETENTION SYSTEM. CONTRACTOR SHALL CONTACT MANUFACTURER FOR FINAL
- INSPECTION AND CERTIFICATION. 20. CONTACT MODNR FOR FINAL INSPECTION AND OWNER FOR COORDINATION OF FILING THE NOTICE OF TERMINATION (NOT).

EROSION CONTROL PHASE



REVISIONS BY

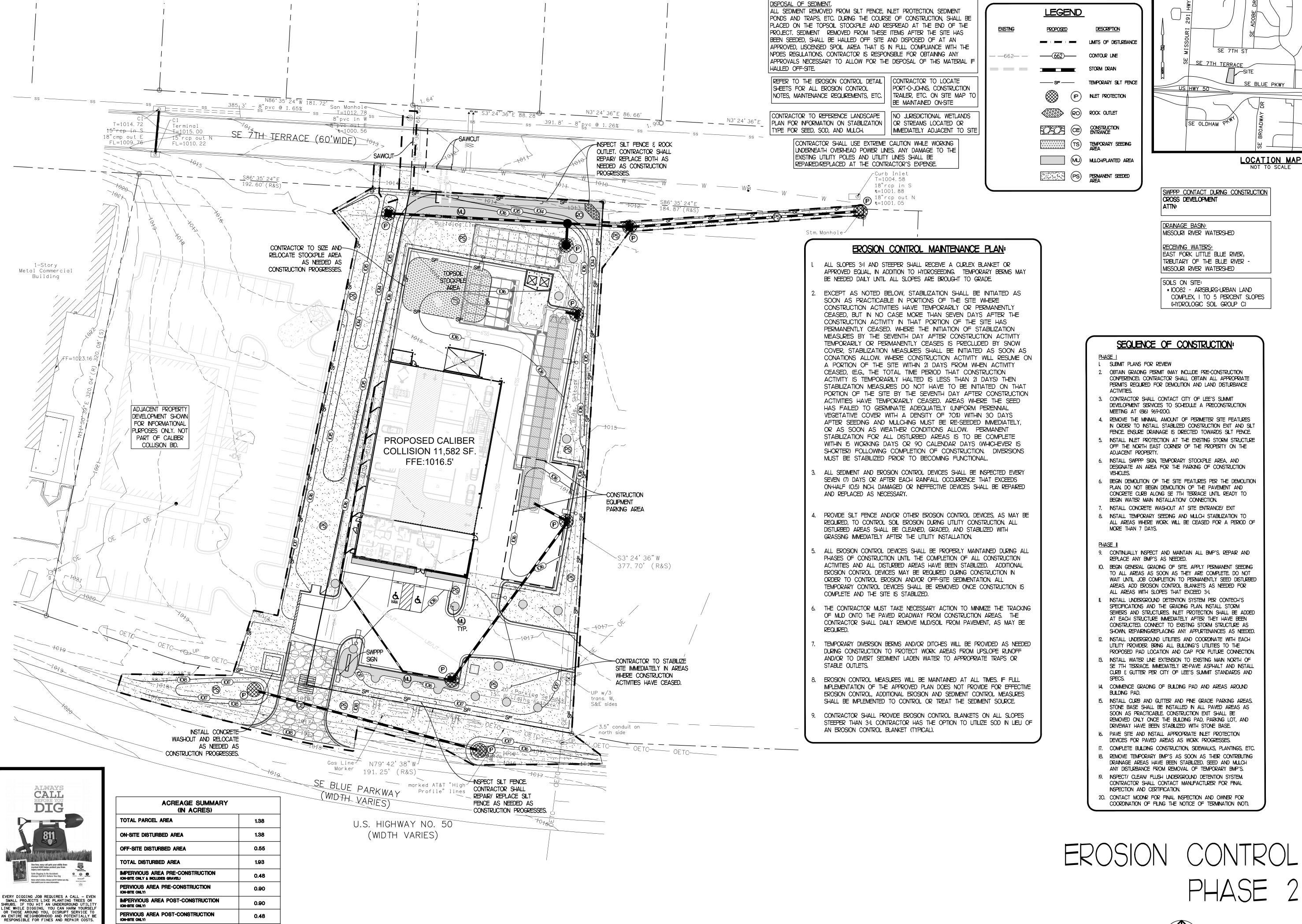


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DRAWN CHECKED TMB DATE 11/17/2021



PERVIOUS AREA POST-CONSTRUCTION

**IMPERVIOUS PERCENTAGE** 

IMPERVIOUS AREA INCREASE (PRE VS POST)

SMART DIGGING MEANS CALLING 811 BEFORE EACH JOB. WHETHER YOU ARE A HOMEOWNER OR A PROFESSIONAL EXCAVATOR, ONE CALL TO 81 GETS YOUR UNDERGROUND UTILITY LINES MARKED FOR FREE.

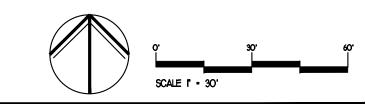
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REVISIONS BY

EROSION CONTROL



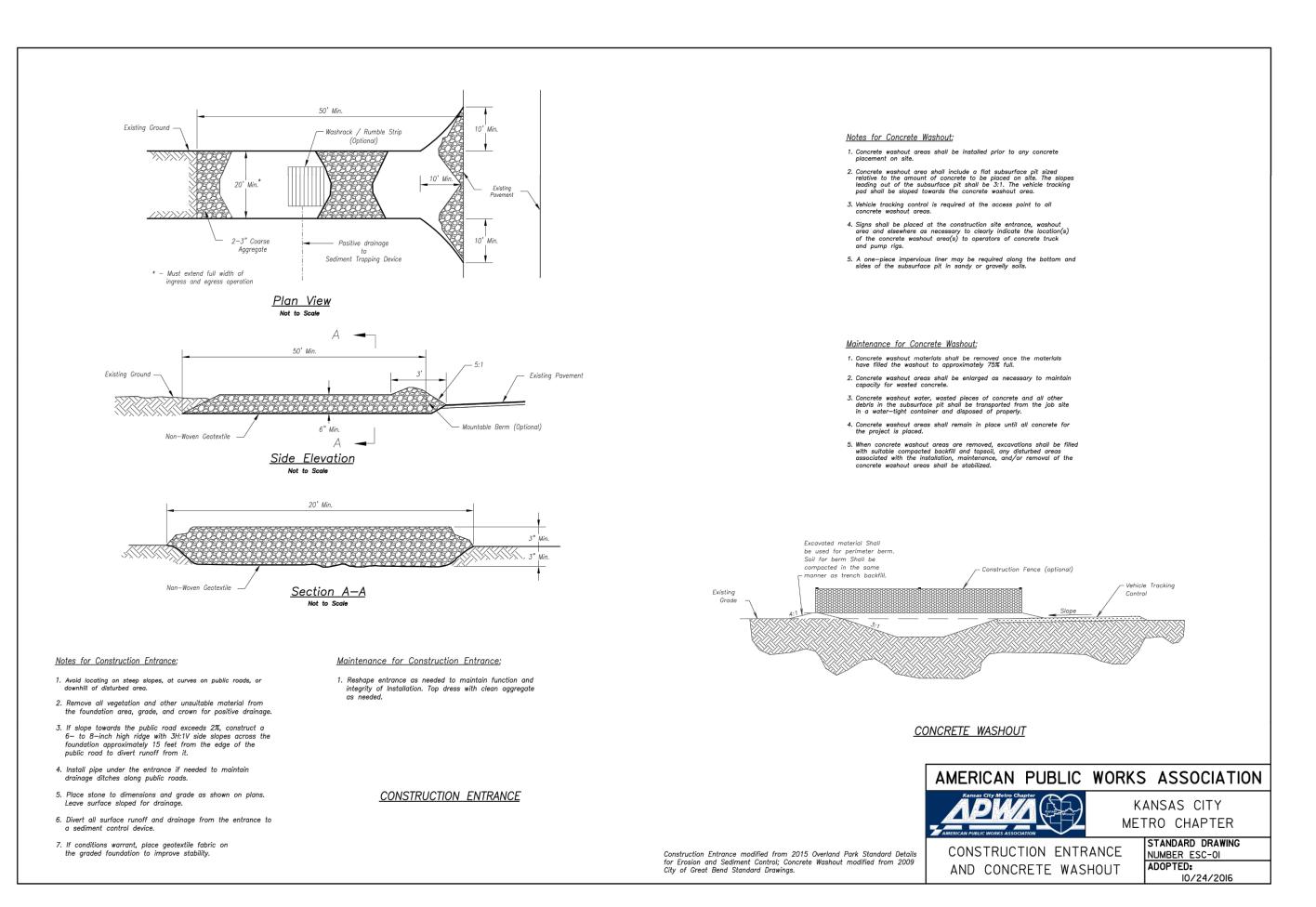
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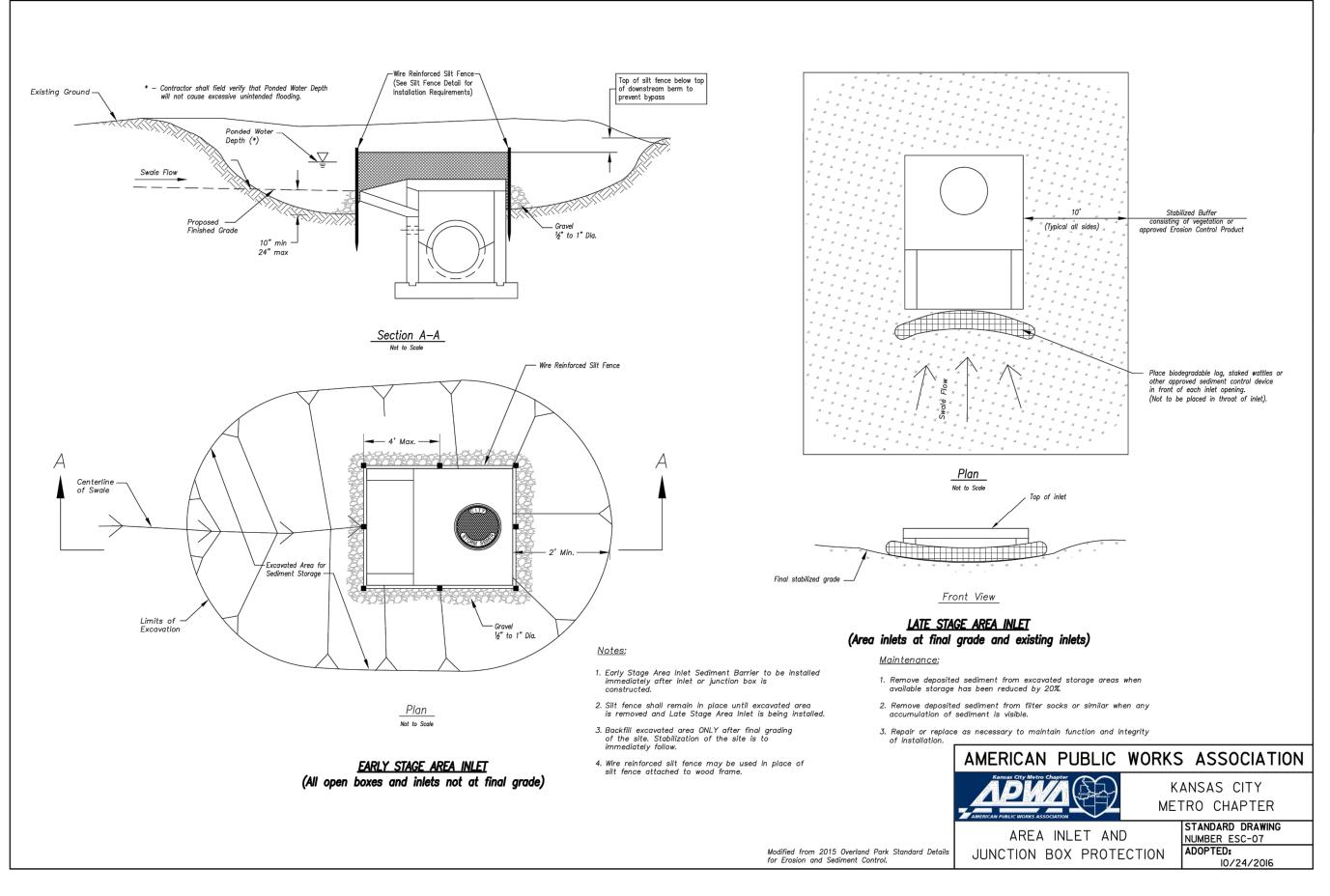
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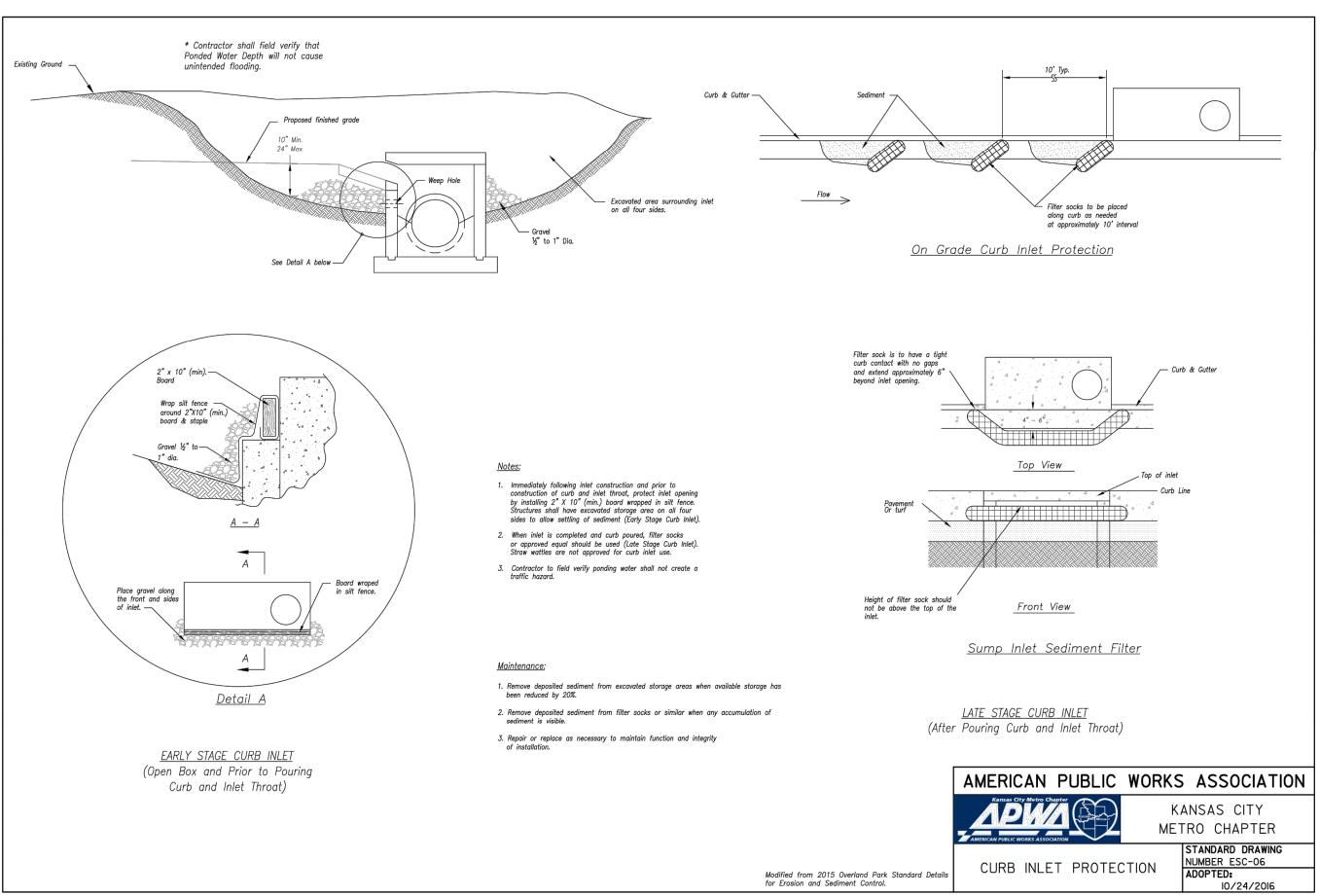
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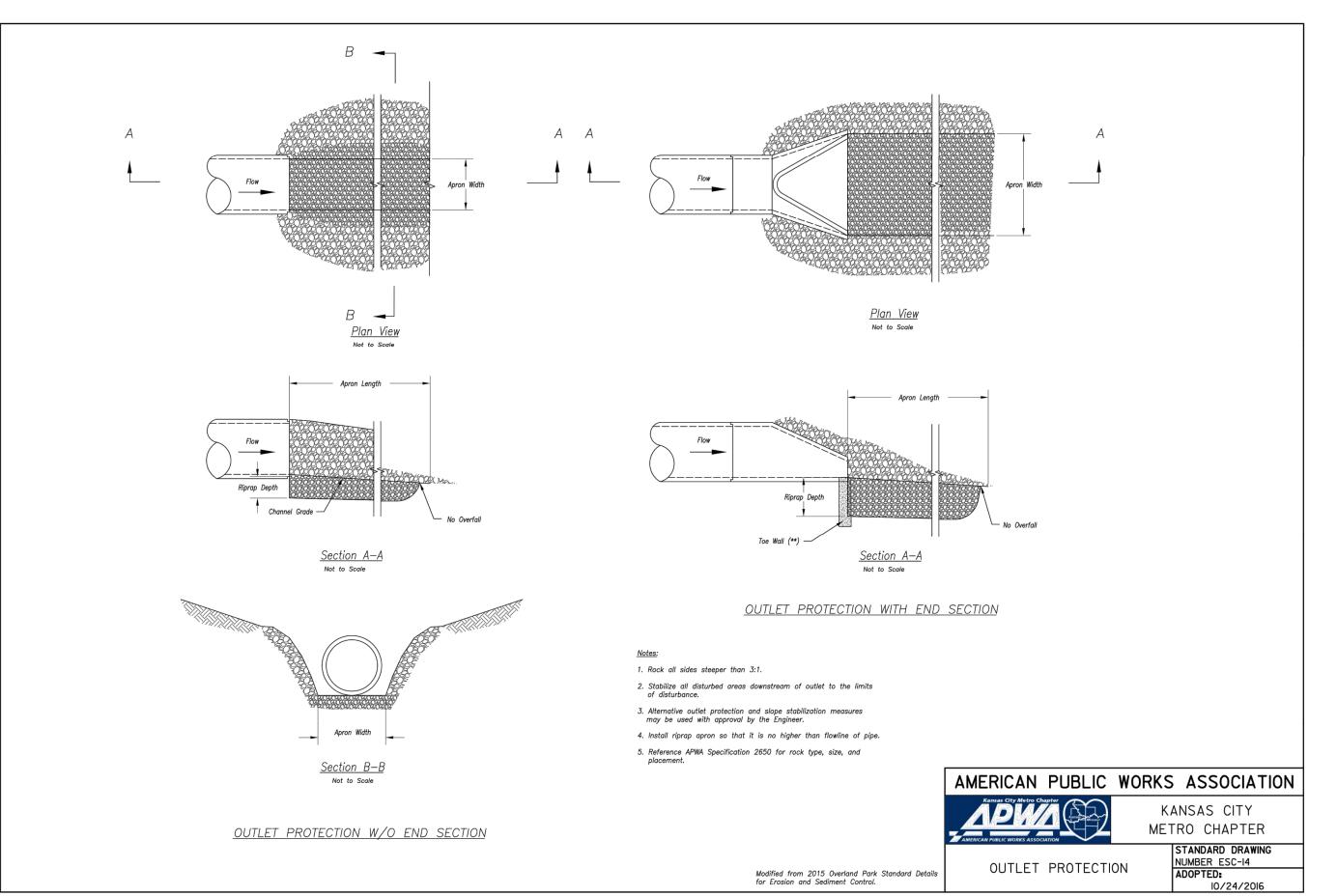
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EROSION CONTROL DETAILS

REVISIONS BY

ELAND and KAUFFMAN, II Engineers \* Landscape Architects 209 West Stone Avenue Greenville, South Carolina 29609 864-233-5497

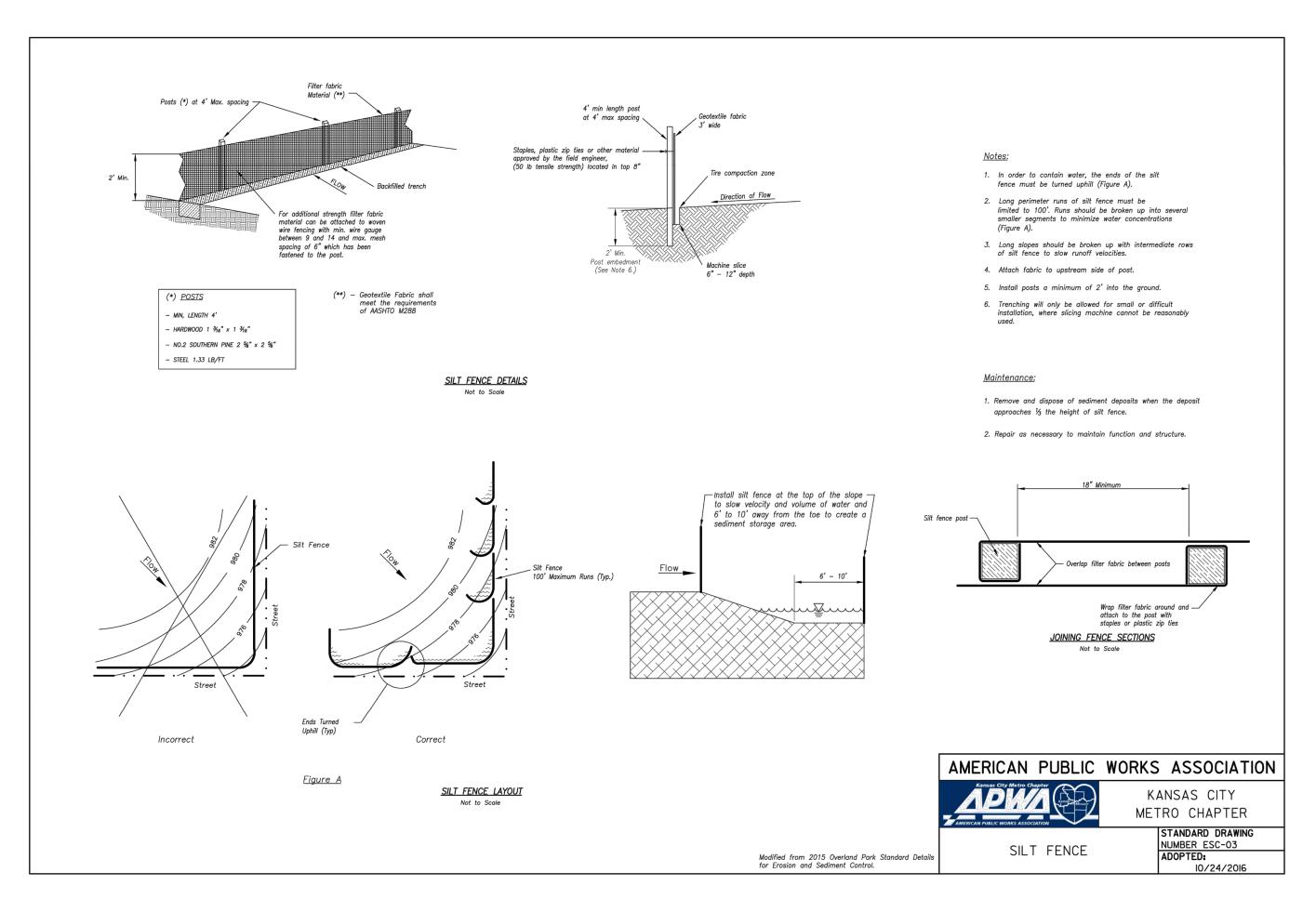


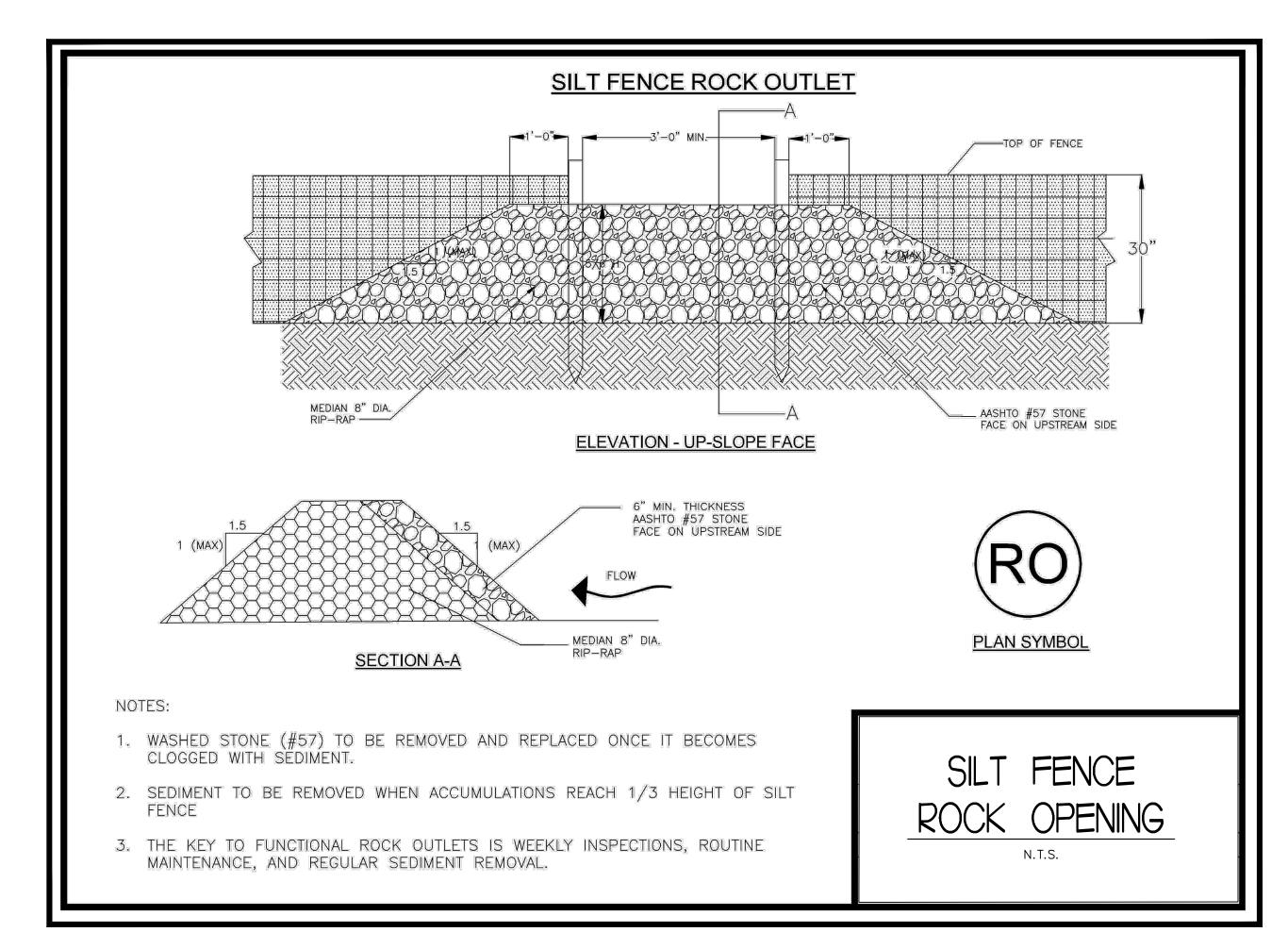
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063

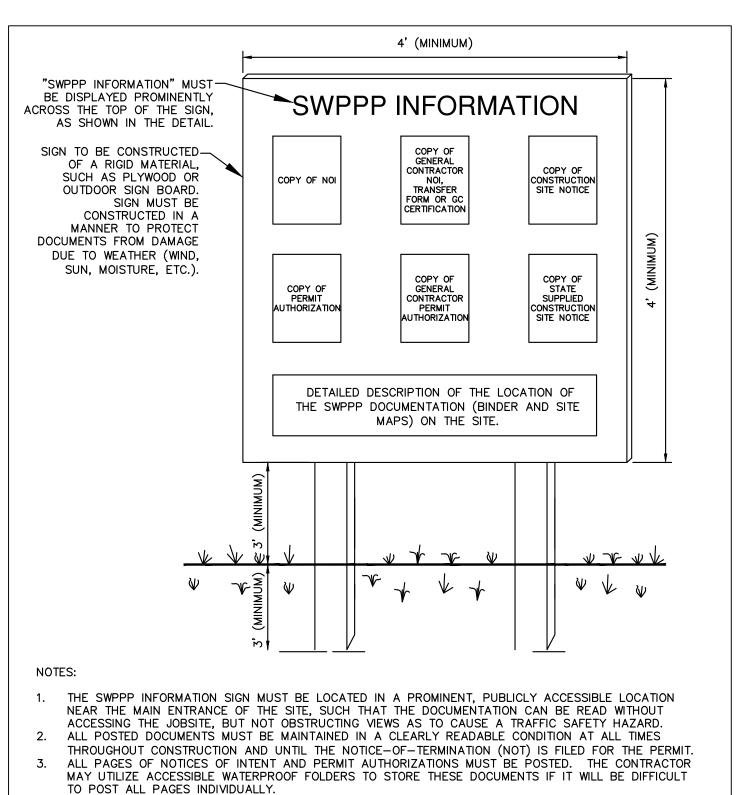
ROSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4336 MARSH RIDGE ROAD
CARROLLTON, TX 75010

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4. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION AND SEDIMENT CONTROL RELATED

SUBSEQUENT PERMIT MODIFICATION REQUESTS OR RENEWAL APPLICATIONS AND THEIR ASSOCIATED

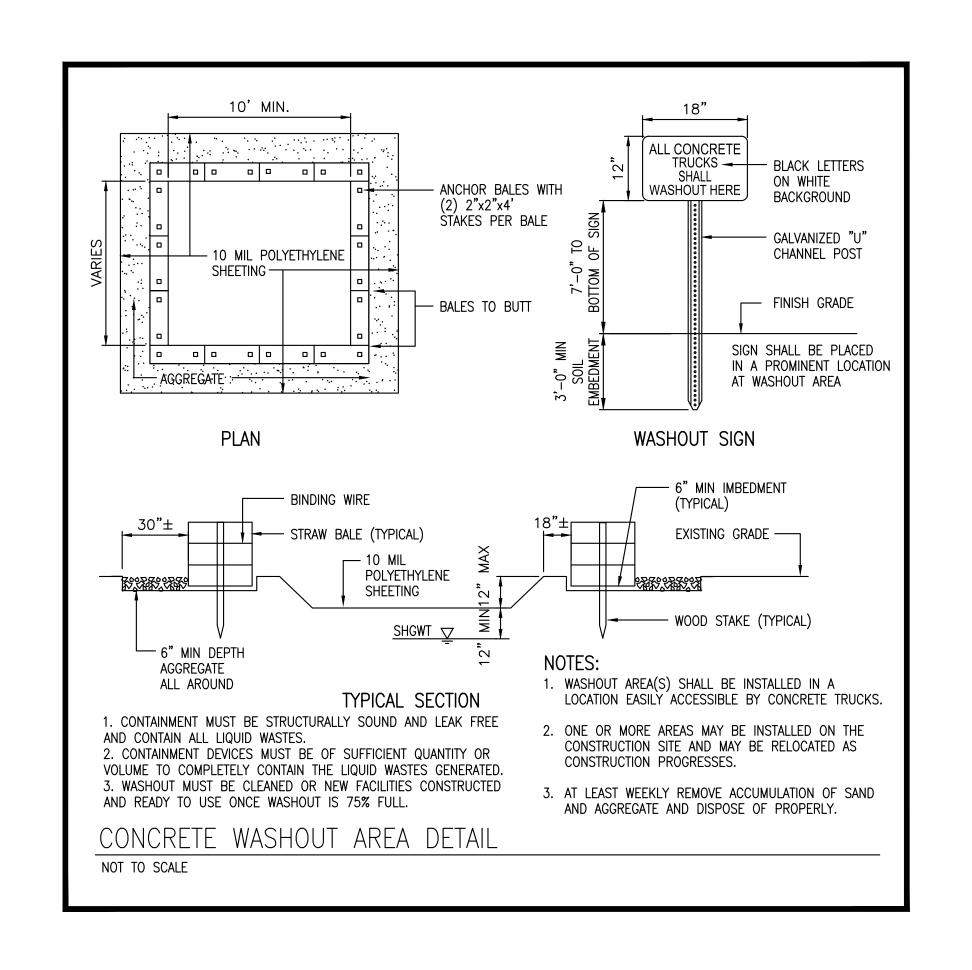
SWPPP SIGN

SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY

PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCIES.

AUTHORIZATIONS OR RESPONSES SHALL BE POSTED ON THE SWPPP SIGN.

7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.



EROSION CONTROL DETAILS

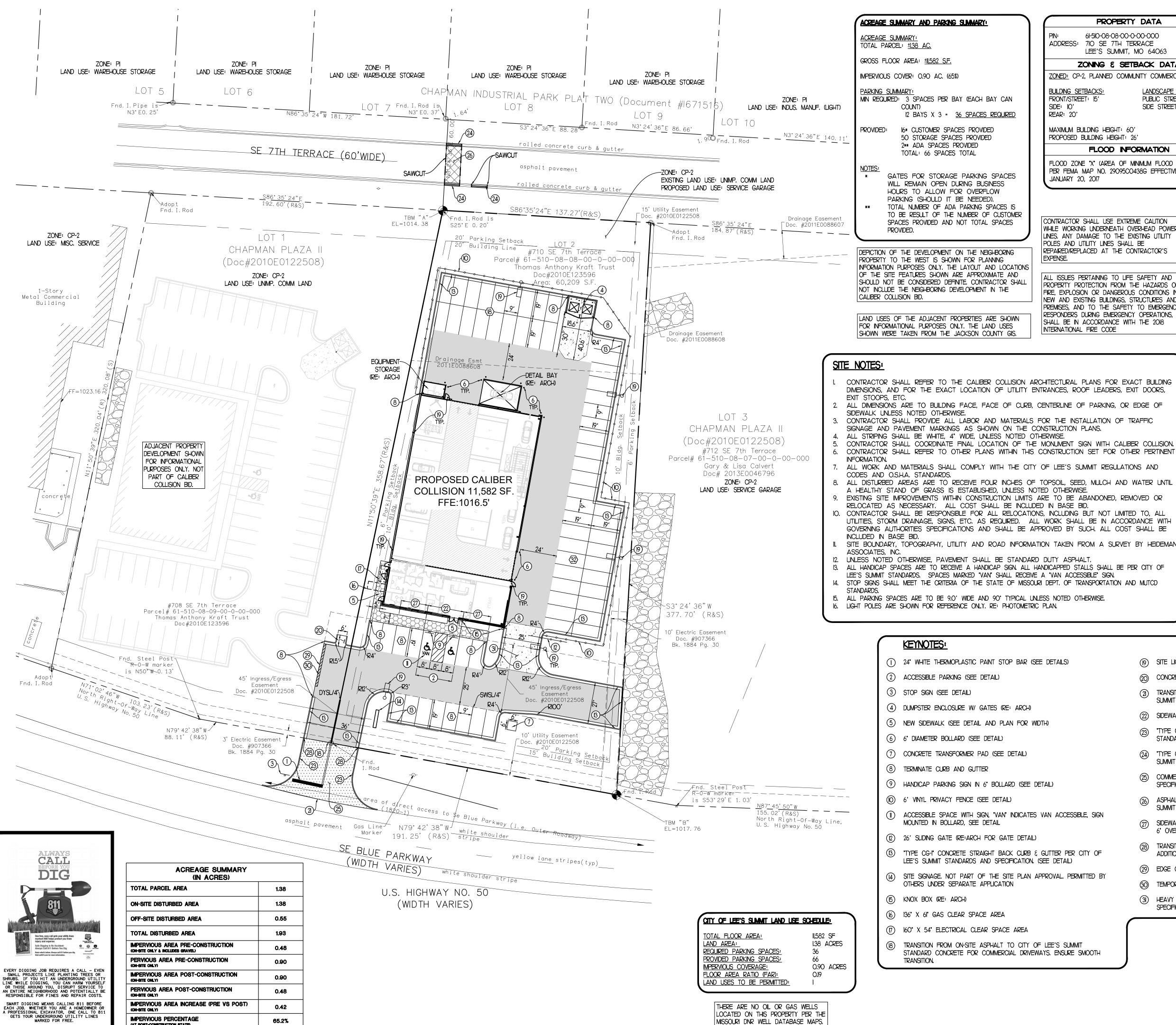
REVISIONS BY

AND and KAUFFMAN, INgineers \* Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497



CALIBER COLLISION
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
SOSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4336 MARSH RIDGE ROAD
CARROLLTON, TX 75010

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# ACREAGE SUMMARY AND PARKING SUMMARY:

IMPERVIOUS COVER: 0.90 AC. (65%)

# MIN REQUIRED: 3 SPACES PER BAY (EACH BAY CAN

12 BAYS X 3 = 36 SPACES REQUIRED

16\* CUSTOMER SPACES PROVIDED 50 STORAGE SPACES PROVIDED 2\*\* ADA SPACES PROVIDED

GATES FOR STORAGE PARKING SPACES WILL REMAIN OPEN DURING BUSINESS HOURS TO ALLOW FOR OVERFLOW

PARKING (SHOULD IT BE NEEDED). TOTAL NUMBER OF ADA PARKING SPACES IS TO BE RESULT OF THE NUMBER OF CUSTOMER SPACES PROVIDED AND NOT TOTAL SPACES

DEPICTION OF THE DEVELOPMENT ON THE NEIGHBORING PROPERTY TO THE WEST IS SHOWN FOR PLANNING INFORMATION PURPOSES ONLY. THE LAYOUT AND LOCATIONS OF THE SITE FEATURES SHOWN ARE APPROXIMATE AND SHOULD NOT BE CONSIDERED DEFINITE. CONTRACTOR SHALL NOT INCLUDE THE NEIGHBORING DEVELOPMENT IN THE

LAND USES OF THE ADJACENT PROPERTIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY, THE LAND USES SHOWN WERE TAKEN FROM THE JACKSON COUNTY GIS.

## PROPERTY DATA

61-510-08-08-00-0-00-000 ADDRESS: 710 SE 7TH TERRACE LEE'S SUMMIT, MO 64063

ZONING & SETBACK DATA ZONED: CP-2, PLANNED COMMUNITY COMMERCIAL

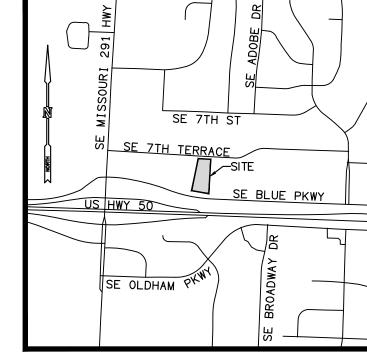
**BUILDING SETBACKS:** FRONT/STREET: 15' SIDE: 10' REAR: 20'

LANDSCAPE SETBACKS: PUBLIC STREET: 20' SIDE STREET: 6'

MAXIMUM BUILDING HEIGHT: 60' PROPOSED BUILDING HEIGHT: 26'

# FLOOD INFORMATION

FLOOD ZONE "X" (AREA OF MINIMUM FLOOD HAZARD) PER FEMA MAP NO. 29095C0438G EFFECTIVE DATE: JANUARY 20, 2017



LOCATION MAP

CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING UNDERNEATH OVERHEAD POWER LINES. ANY DAMAGE TO THE EXISTING UTILITY POLES AND UTILITY LINES SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S

ALL ISSUES PERTAINING TO LIFE SAFETY AND PROPERTY PROTECTION FROM THE HAZARDS OF FIRE, EXPLOSION OR DANGEROUS CONDITIONS IN NEW AND EXISTING BUILDINGS, STRUCTURES AND PREMISES, AND TO THE SAFETY TO EMERGENCY RESPONDERS DURING EMERGENCY OPERATIONS, SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FIRE CODE

#### PAINTING STRIPING LEGEND

SWSL/4" - SINGLE WHITE SOLID LINE / 4" WIDE DYSL/4" - DOUBLE YELLOW SOLID LINE / 4" WIDE

**DESCRIPTION** SYMBOL HANDICAPPED SYMBOL

**LEGEND** 

SITE SIGNAGE

SPACES

NUMBER OF PARKING

BOLLARD

6' SCREEN FENCE

CONCRETE PAVING/SIDEWALK HEAVY DUTY CONCRETE

HEAVY DUTY ASPHALT\*

STANDARD DUTY ASPHALT\*

CITY SPEC'D CONCRETE\*\*

CITY SPEC'D ASPHALT\*\* PAINTED STOP LINE

COORDINATE WITH THE PAVEMENT DESIGN RECOMMENDATIONS IN THE GEOTECH REPORT

---- SAWCUT LINE

\*\* REFERENCE THE CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PAVING REQUIREMENTS.

PREPARED BY INTERTECK PSI, DATED MAY 21, 2021.

- (1) 24" WHITE THERMOPLASTIC PAINT STOP BAR (SEE DETAILS)
- 2 ACCESSIBLE PARKING (SEE DETAIL)
- 3 STOP SIGN (SEE DETAIL)
- 4) DUMPSTER ENCLOSURE W/ GATES (RE: ARCH)
- (5) NEW SIDEWALK (SEE DETAIL AND PLAN FOR WIDTH)
- 6 6 DIAMETER BOLLARD (SEE DETAIL)
- (7) CONCRETE TRANSFORMER PAD (SEE DETAIL)
- (8) TERMINATE CURB AND GUTTER
- (9) HANDICAP PARKING SIGN IN 6" BOLLARD (SEE DETAIL)
- (IO) 6' VINYL PRIVACY FENCE (SEE DETAIL)
- (B) "TYPE CG-1" CONCRETE STRAIGHT BACK CURB & GUTTER PER CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATION. (SEE DETAIL)
- (i4) SITE SIGNAGE, NOT PART OF THE SITE PLAN APPROVAL, PERMITTED BY OTHERS UNDER SEPARATE APPLICATION
- (15) KNOX BOX (RE: ARCH)
- (16) 136" X 61" GAS CLEAR SPACE AREA
- (17) 160" X 54" ELECTRICAL CLEAR SPACE AREA
- (B) TRANSITION FROM ON-SITE ASPHALT TO CITY OF LEE'S SUMMIT STANDARD CONCRETE FOR COMMERCIAL DRIVEWAYS. ENSURE SMOOTH

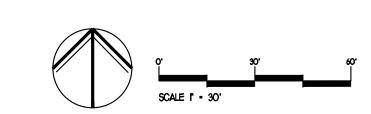
- (9) SITE LIGHTING (RE: PHOTOMETRIC PLANS)
- (20) CONCRETE FLUME (SEE DETAIL)
- TRANSITION FROM CITY OF LEE'S SUMMIT CONCRETE TO CITY OF LEE'S SUMMIT ASPHALT PAVEMENT. ENSURE SMOOTH TRANSITION.
- (22) SIDEWALK FLUSH WITH ASPHALT

SPECIFICATIONS, SEE DETAIL

- "TYPE C-1" CONCRETE STRAIGHT CURB PER CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS, SEE CITY DETAIL
- "TYPE CG-2" CONCRETE ROLL BACK CURB & GUTTER PER CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS. SEE CITY DETAIL
- (26) ASPHALT PAVING FOR ROADWAY TRENCH REPAIR PER CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS. SEE DETAIL

(25) COMMERCIAL DRIVEWAY PER CITY OF LEE'S SUMMIT STANDARDS AND

- ② SIDEWALK TAPER, TAPER INTEGRAL SIDEWALK FROM A HEIGHT OF O' TO 6" OVER 18 FEET
- (28) TRANSITION FROM CURB/ CURB & GUTTER TYPES. SEE SITE PLAN FOR ADDITIONAL INFORMATION
- (29) EDGE OF ASPHALT TO ADJACENT PROPERTY
- (30) TEMPORARY ASPHALT CURBING, SEE DETAIL
- (31) HEAVY DUTY CONCRETE PER CITY OF LEE'S SUMMIT STANDARDS AND SPECIFICATIONS, SEE DETAIL



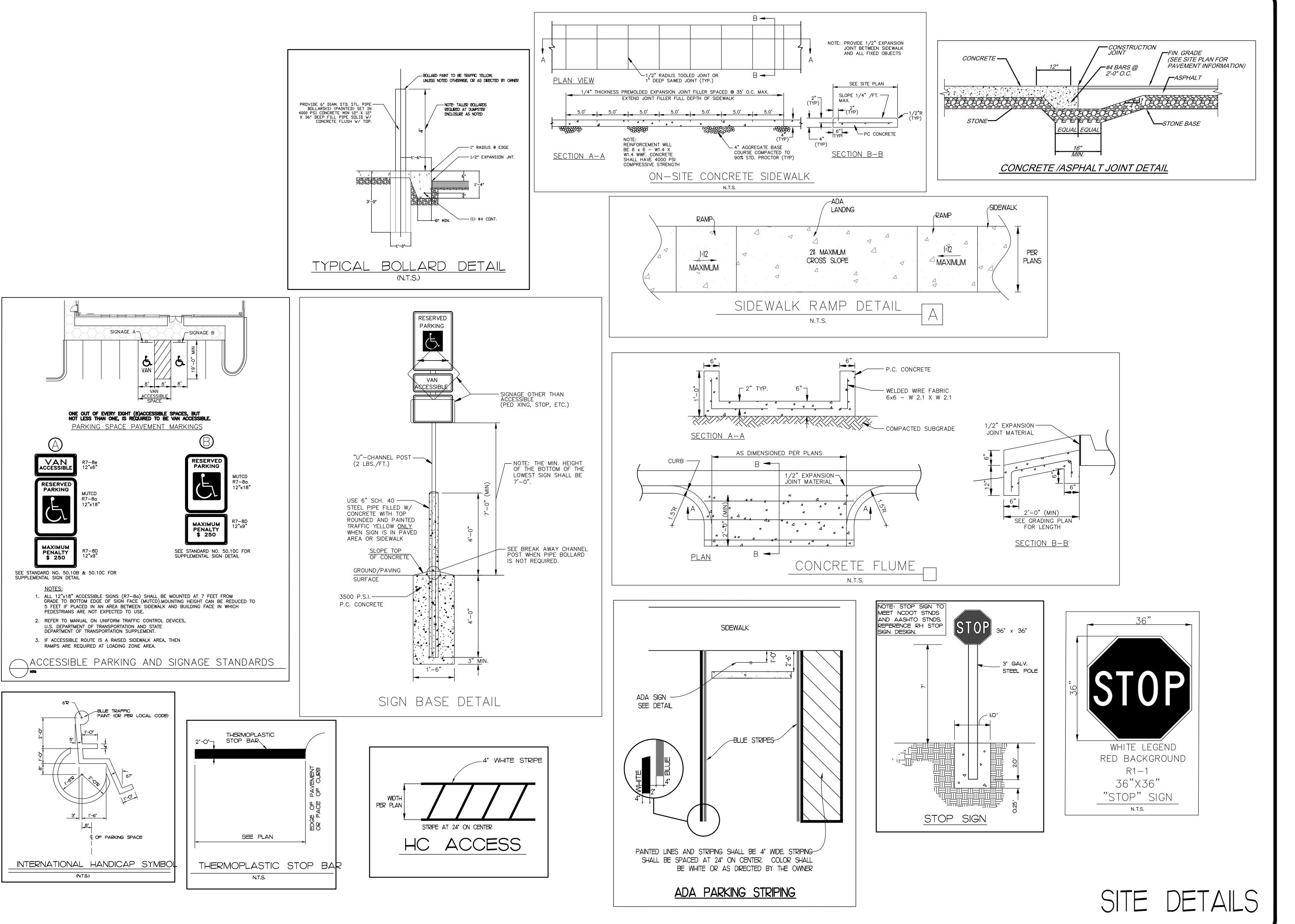
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OLLISION 

■Ontime

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IND and KAUFFMAN, INC.

ineers \* Landscape Architects
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ireenville, South Carolina 29609
864-233-5497

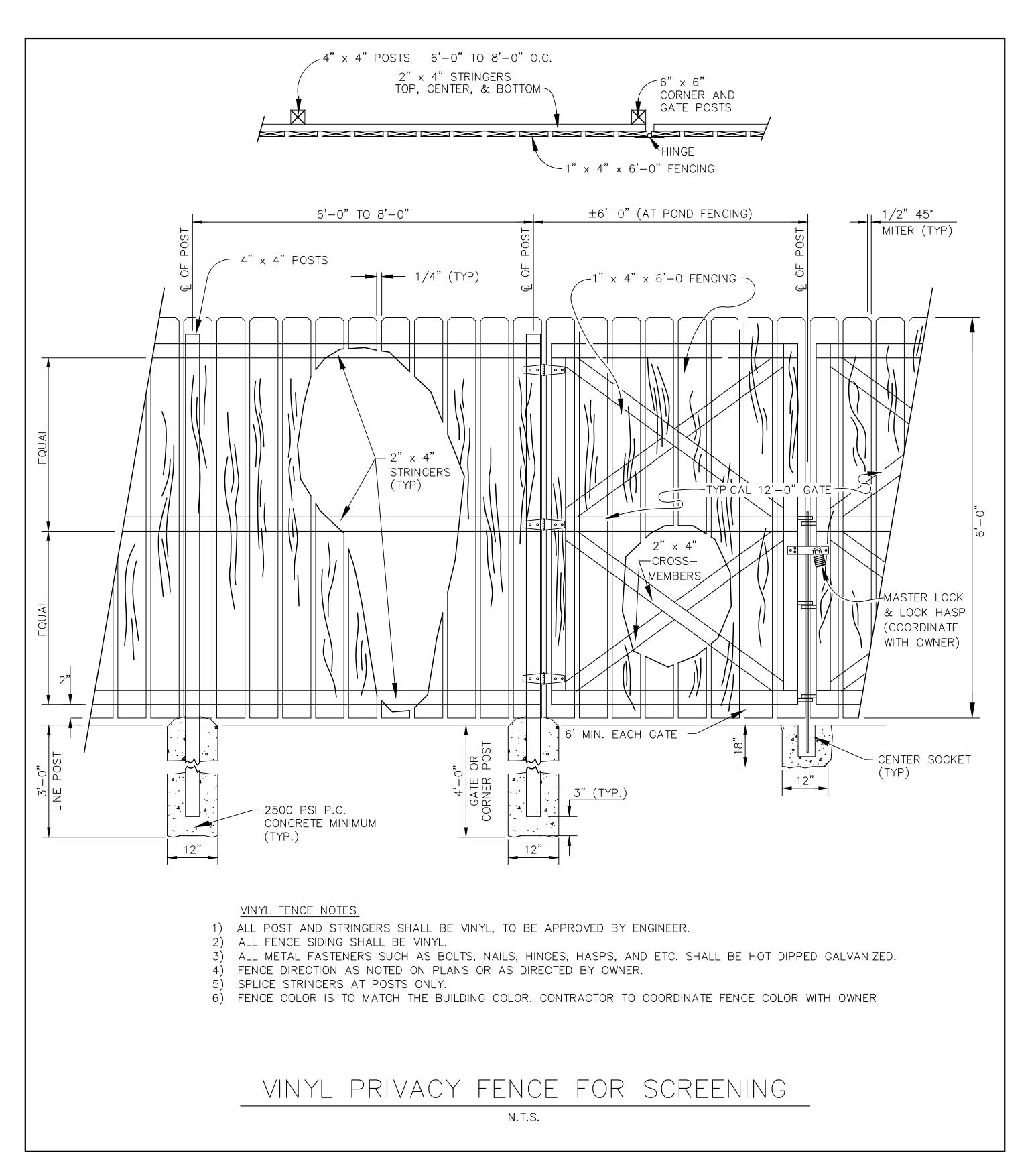
TODD BURNET!

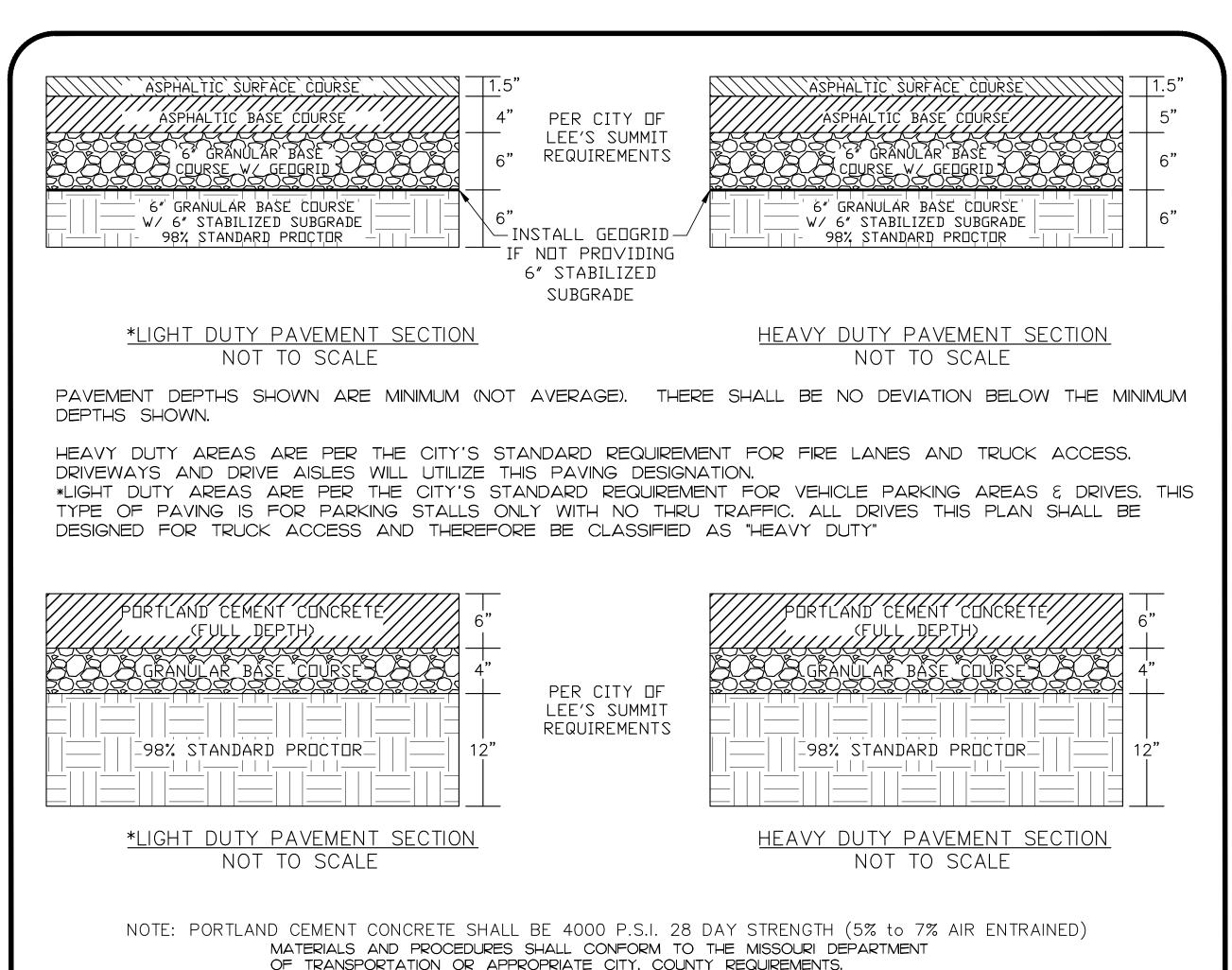
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CALIBER COLLISION
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
ROSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4336 MARSH RIDGE ROAD
CARROLLTON, TX 75010

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MATERIALS AND PROCEDURES SHALL CONFORM TO THE MISSOURI DEPARTMENT OF TRANSPORTATION OR APPROPRIATE CITY, COUNTY REQUIREMENTS.

# PAVING DETAILS

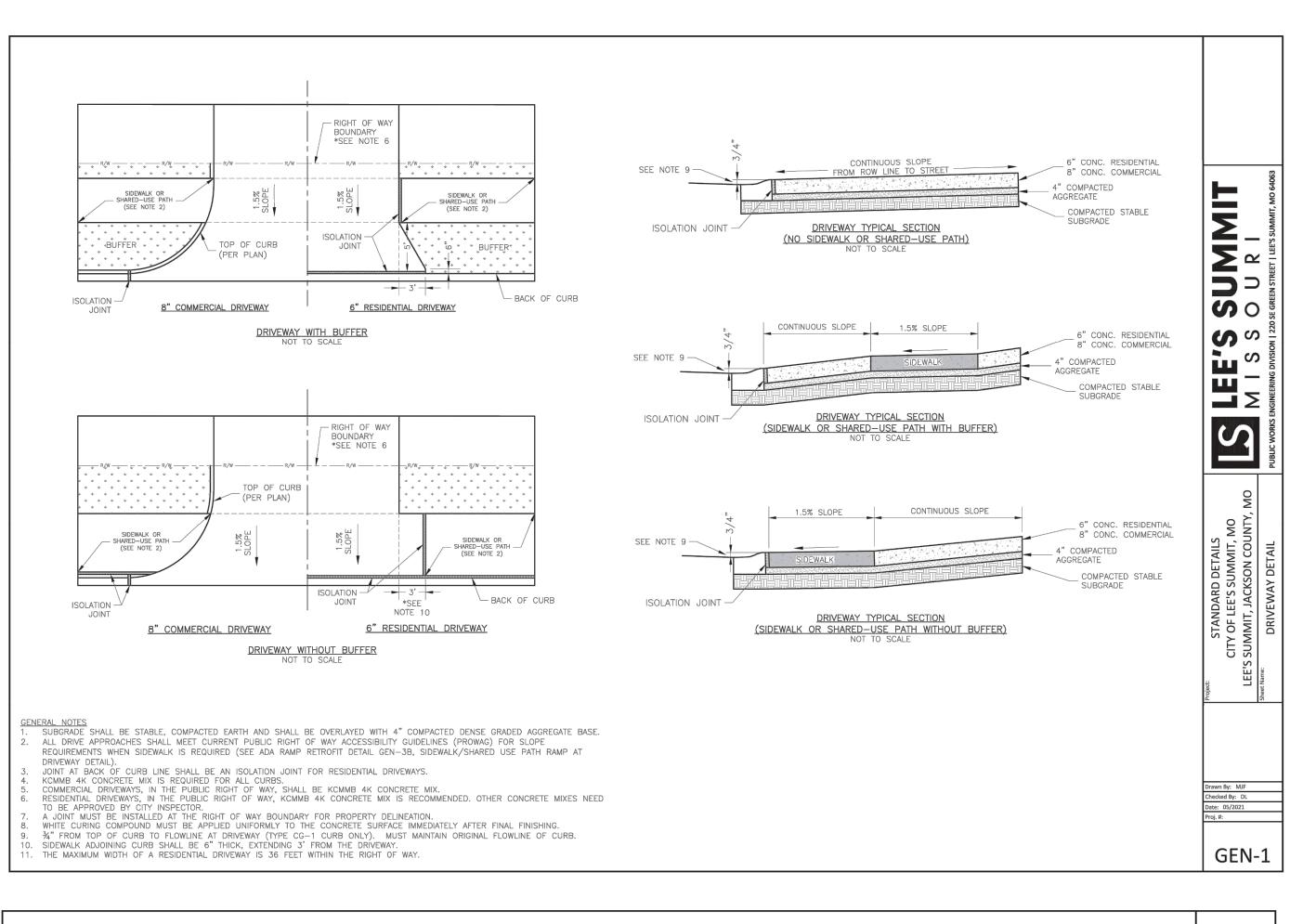
THE PAVEMENT DESIGN AS SHOWN IS PROVIDED BY THE CITY OF LEE'S SUMMIT DESIGN REQUIREMENTS (TABLE 8.5 IN SECTION 8.620 IN THE CITY UNIFIED DEVELOPMENT ORDINANCES). FREELAND & KAUFFMAN, INC. DOES NOT WARRANT THE EFFECTIVNESS OF THE DESIGN. FREELAND & KAUFFMAN, INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR SAID DESIGN.

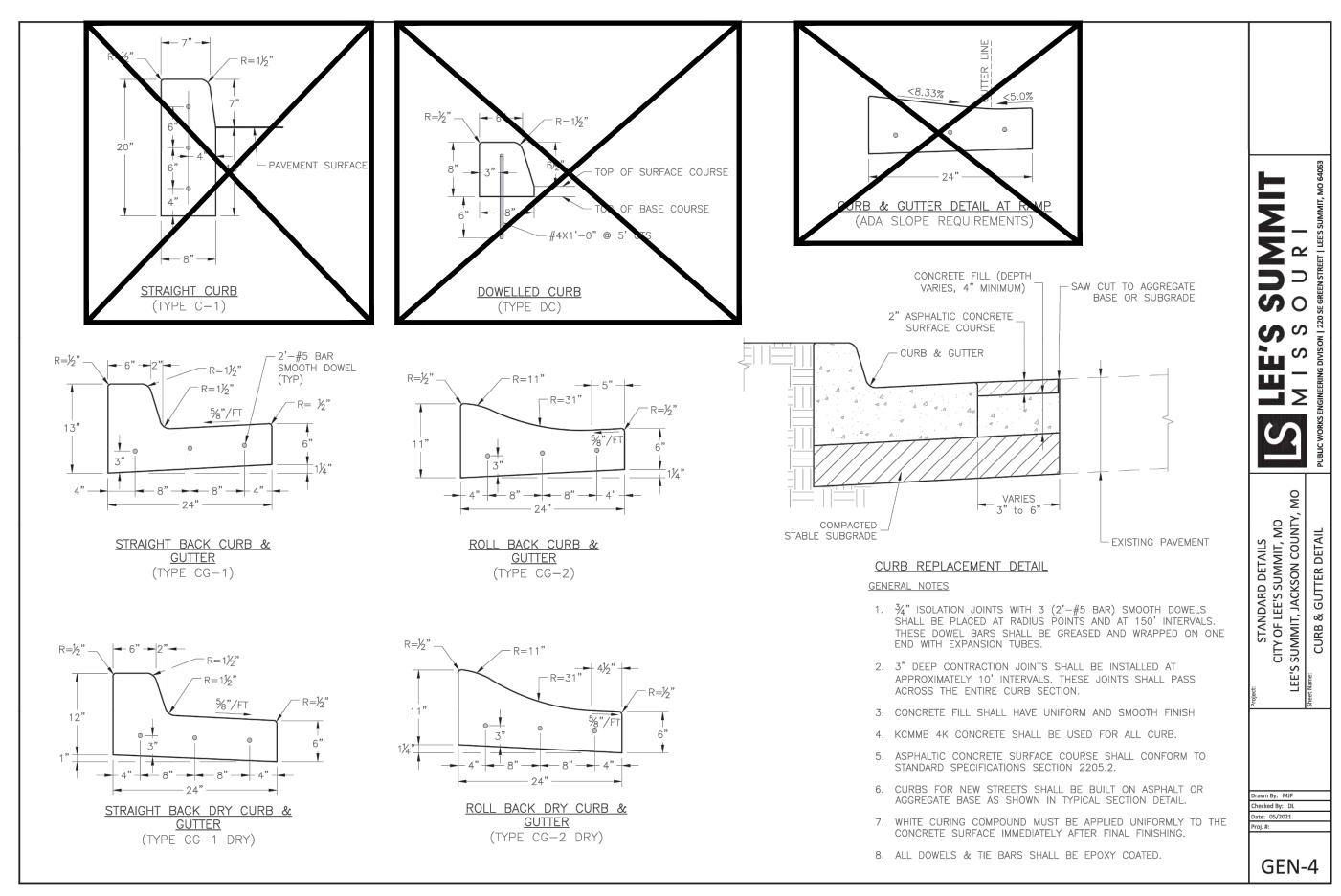
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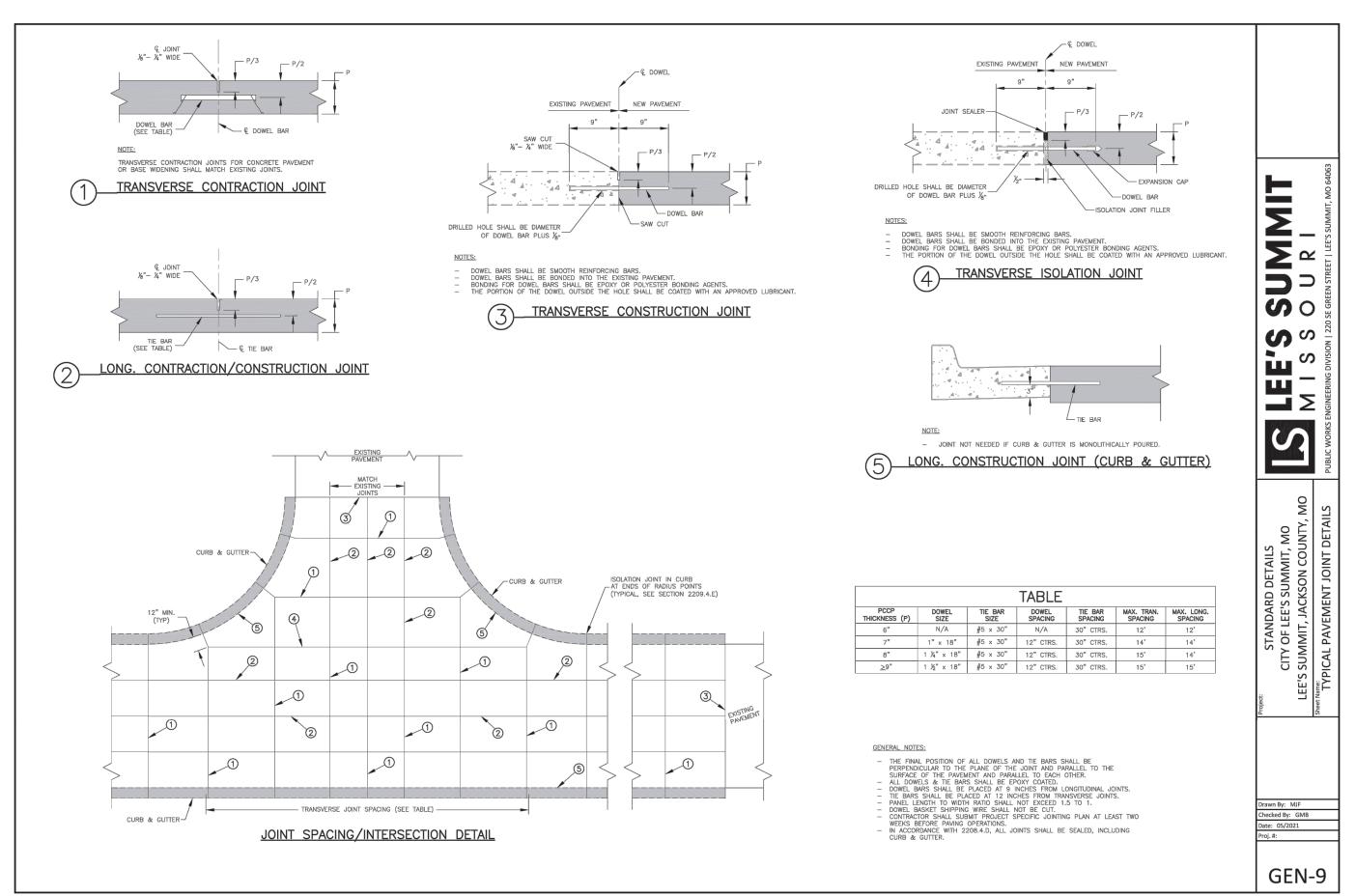
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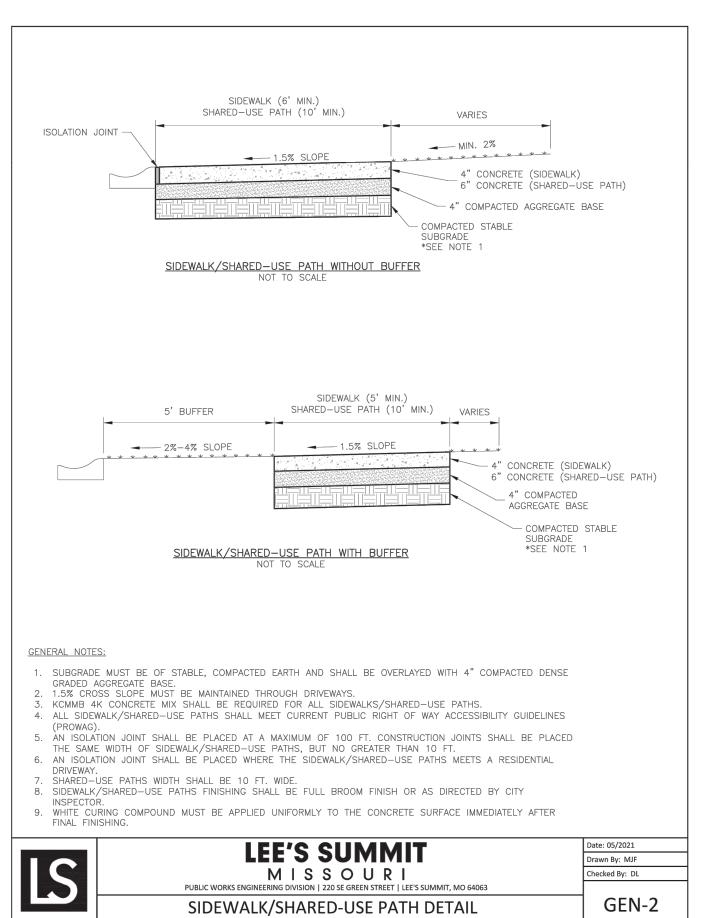
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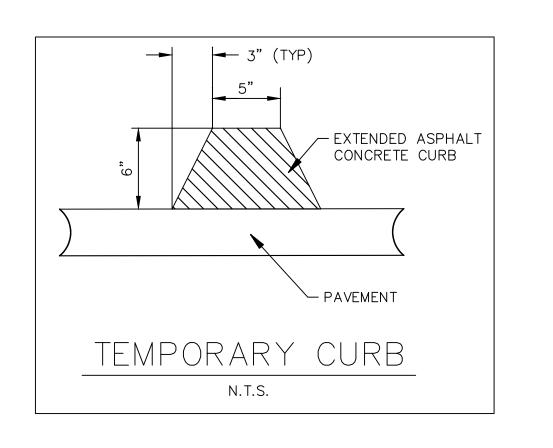
SITE DETAILS











CALIBER COLLISION
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063

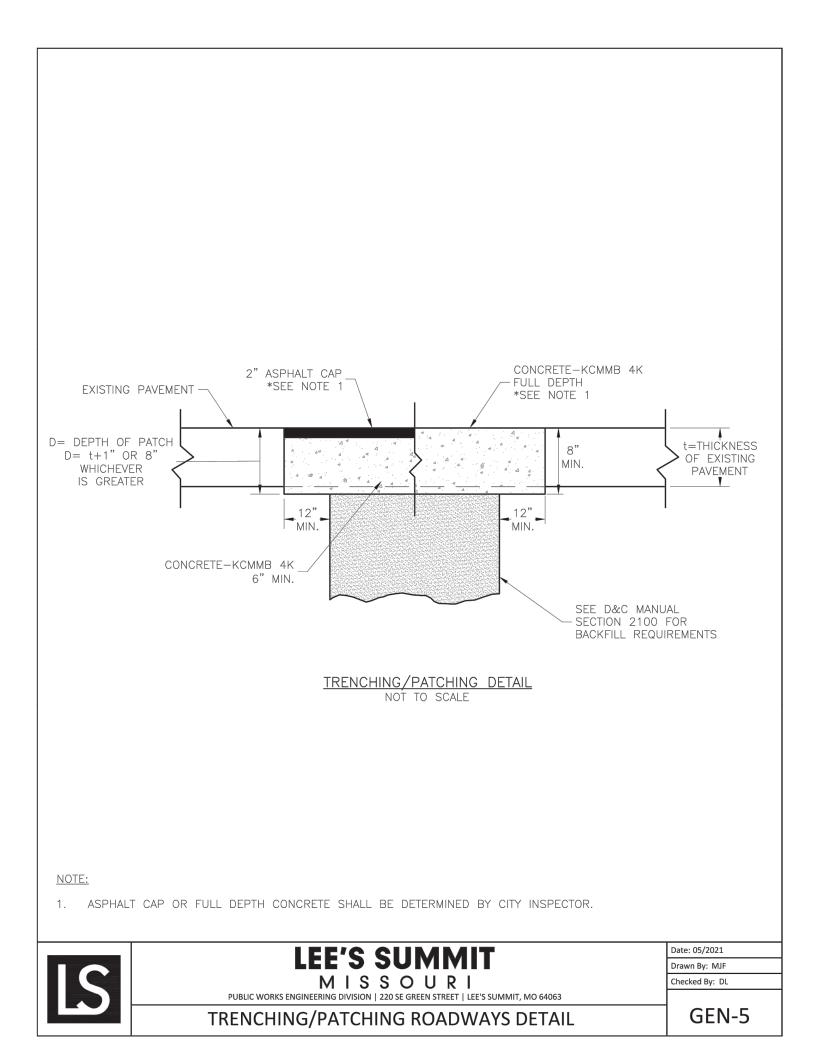
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4336 MARSH RIDGE ROAD
CARROLLTON, TX 75010

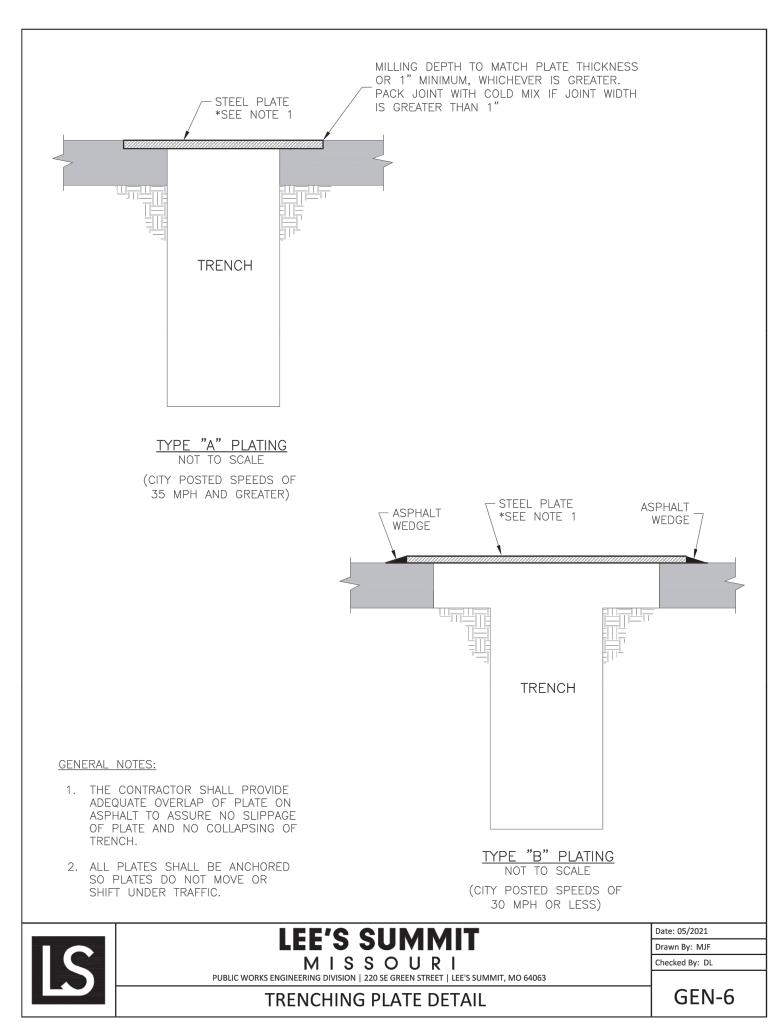
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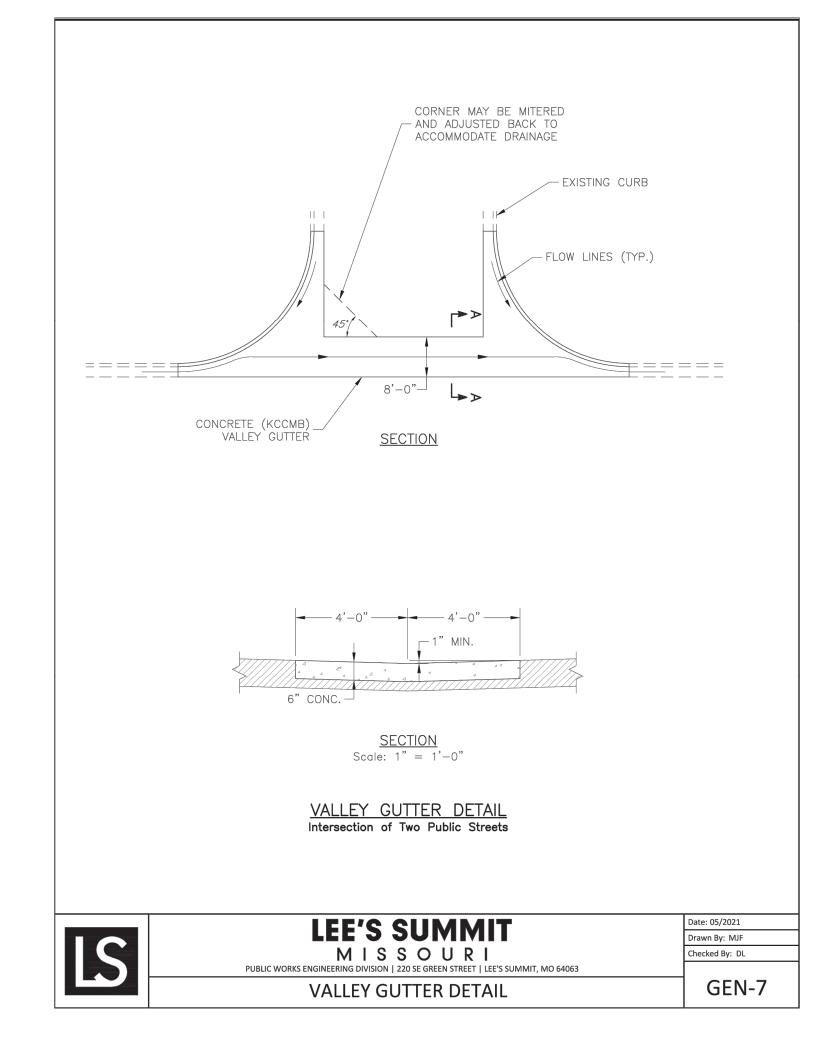
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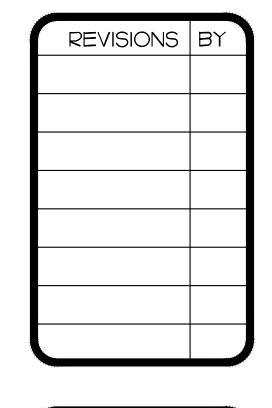
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SITE DETAILS



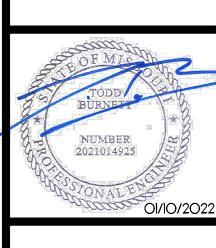






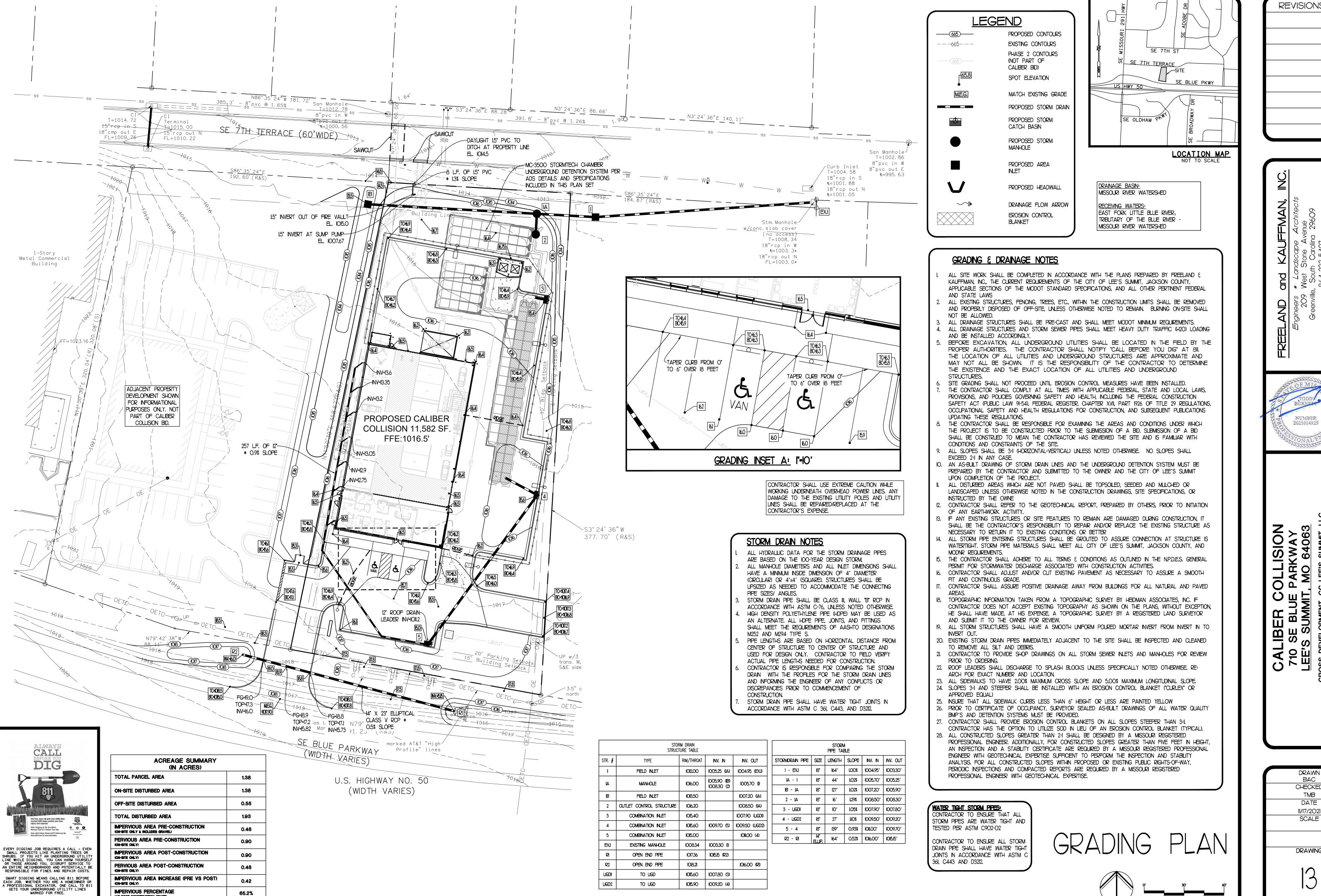
iLAND and KAUFFMAN,

Engineers \* Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497
fax 864-233-8915



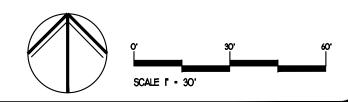
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SUMMIT, MO 64063
FLOPMENT, CC LEE'S SUMMIT, LLC
336 MARSH RIDGE ROAD
CARROLLTON, TX 75010

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(AT POST-CONSTRUCTION STATE)

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#### STORM DRAIN NOTES

- ALL HYDRAULIC DATA FOR THE STORM DRAINAGE PIPES ARE BASED ON THE 100-YEAR DESIGN STORM.
- ALL MANHOLE DIAMETERS AND ALL INLET DIMENSIONS SHALL HAVE A MINIMUM INSIDE DIMENSION OF 4' DIAMETER (CIRCULAR) OR 4'x4' (SQUARE), STRUCTURES SHALL BE UPSIZED AS NEEDED TO ACCOMMODATE THE CONNECTING PIPE SIZES/
- STORM DRAIN PIPE SHALL BE CLASS III, WALL "B" RCP IN ACCORDANCE WITH ASTM C-76, UNLESS NOTED OTHERWISE. HIGH DENSITY POLYETHYLENE PIPE (HDPE) MAY BE USED AS AN ALTERNATE, ALL HOPE PIPE, JOINTS, AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATIONS M252 AND M294
- PIPE LENGTHS ARE BASED ON HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND USED FOR DESIGN ONLY. CONTRACTOR TO FIELD VERIFY ACTUAL PIPE LENGTHS NEEDED FOR CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM DRAIN WITH THE PROFILES FOR THE STORM DRAIN LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PERVIOUS AREA POST-CONSTRUCTION

IMPERVIOUS PERCENTAGE

IMPERVIOUS AREA INCREASE (PRE VS POST)

0.48

0.42

65.2%

STORM DRAIN PIPE SHALL HAVE WATER TIGHT JOINTS IN ACCORDANCE WITH ASTM C 361, C443, AND D3212.

INLET DRAINAGE AREAS													
TYPE	INLET	AREA (AC.)	TC (MIN.)	IMPERVIOUS COVERAGE (ACRE)	IMPERVIOUS RUNOFF COEFFICENT	PERVIOUS COVERAGE (ACRE)	PERVIOUS RUNOFF COEFFICENT	WEIGHTED RUNOFF COEFFICIENT	"i" 50	"i" 100	Q50 (CFS)	Q100 (CFS)	PONDING DEPTH @ INLET PER 100-YR STORM (FT)
PROPOSED	1B *	1.70	5	0.04	0.90	1.66	0.35	0.36	11.30	12.60	6.97	7.77	0.30
	3	0.26	5	0.26	0.90	0.00	0.35	0.90	11.30	12.60	2.64	2.95	0.26
	4	0.15	5	0.15	0.90	0.00	0.35	0.90	11.30	12.60	1.53	1.70	0.20
	5	0.62	5	0.47	0.90	0.15	0.35	0.77	11.30	12.60	5.37	5.99	0.39
	R-2	0.94	5	0.29	0.90	0.65	0.35	0.52	11.30	12.60	5.52	6.16	** NOT CALCULATED
EXISTING	EX-1	0.08	5	0.02	0.90	0.06	0.35	0.49	11.30	12.60	0.44	0.49	** NOT CALCUALTED
	EX-2	0.47	5	0.08	0.90	0.39	0.35	0.44	11.30	12.60	2.36	2.63	** NOT CALCULATED
	1	0.30	5	0.05	0.90	0.25	0.35	0.44	11.30	12.60	1.50	1.67	** NOT CALCULATED

RUNOFF COEFFICIENTS USED TO CALCULATE THE WEIGHTED RUNOFF COEFFICIENT ARE LISTED BELOW

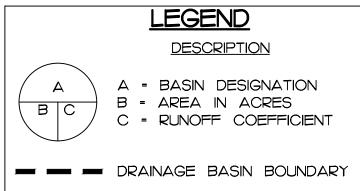
 LAWNS/GRASS: 0.35 ROOFS/PAVEMENT: 0.90

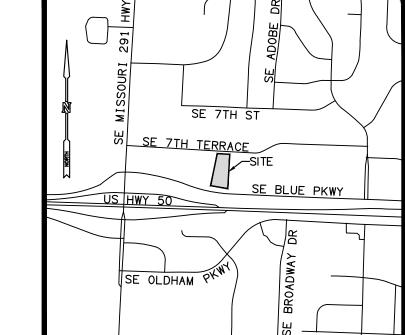
RAINFALL DATA FROM NOAA ATLAS 14, VOLUME 8, VERSION 2, LEE'S SUMMIT, MISSOURI

- \* THE AREA SHOWN FOR INLET 1B ASSUMES THAT THE ADJACENT PROPERTY WILL BE DEVELOPED AND CONNECT IT'S STORM SEWER SYSTEM TO STRUCTURE 1B. PER THE CITY OF LEE'S SUMMIT CODE, THE MAXIMUM ALLOWED DISCHARGE FROM THE DEVELOPED SITE IS 3 CFS PER DEVELOPED ACRE. ASSUMING 1.70 ACRES OF DEVELOPED AREA, THE MAXIMUM DISCHARGE ALLOWED FROM THE ADJACENT SITE WOULD BE 5.1 CFS WHICH IS LESS THAN THE EXISTING SITE'S UNDEVELOPED CONDITION (WHICH RESULTS IN THE VALUE(S) SHOWN IN THE TABLE ABOVE). TO BE CONSERVATIVE, THE RELEASES FOR INLET 1B ABOVE ARE USED TO ADEQUATELY SIZE THE STORM SEWER PIPES PROPOSED BY THE CALIBER COLLISION DEVELOPMENT.
- \*\* THE PONDING DEPTHS FOR THESE INLETS WERE NOT CALCULATED AS THEY ARE A RESULT OF THE EXISTING CONDITIONS OF THE SURROUNDING PROPERTIES AND ADDITIONAL SURVEY INFORMATION WILL BE REQUIRED TO ACCURATELY CALCULATE. ADDITIONALLY, THESE "INLETS" ARE OPEN-ENDED PIPES AND NOT "STORM STRUCTURES". THEIR PONDING DEPTHS ARE NEGLECTED AS THEY CONTAIN CONDITIONS WHERE PONDING IS NOT AN ISSUE (I.E. CONTAINED WITHIN DITCHES)

RAINFALL DISTRIBUTION FOR LEE'S SUMMIT, MISSOURI										
STORM EVENT	2-YR	10-YR	25-YR	50-YR	100-YR					
RAINFALL (INCHES/HR)	5.81	8.35	9.98	11.30	12.60					

- THE RAINFALL FOR RAINFALL DISTRIBUTION DATA TAKEN FROM NOAA ATLAS 14, VOLUME 8, VERSION 2 FOR LEE'S SUMMIT. MISSOURI
- STORM DISTRIBUTION TYPE II
- 24-HOUR STORM DISTRIBUTION





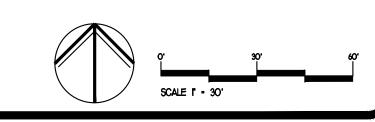
LOCATION MAP

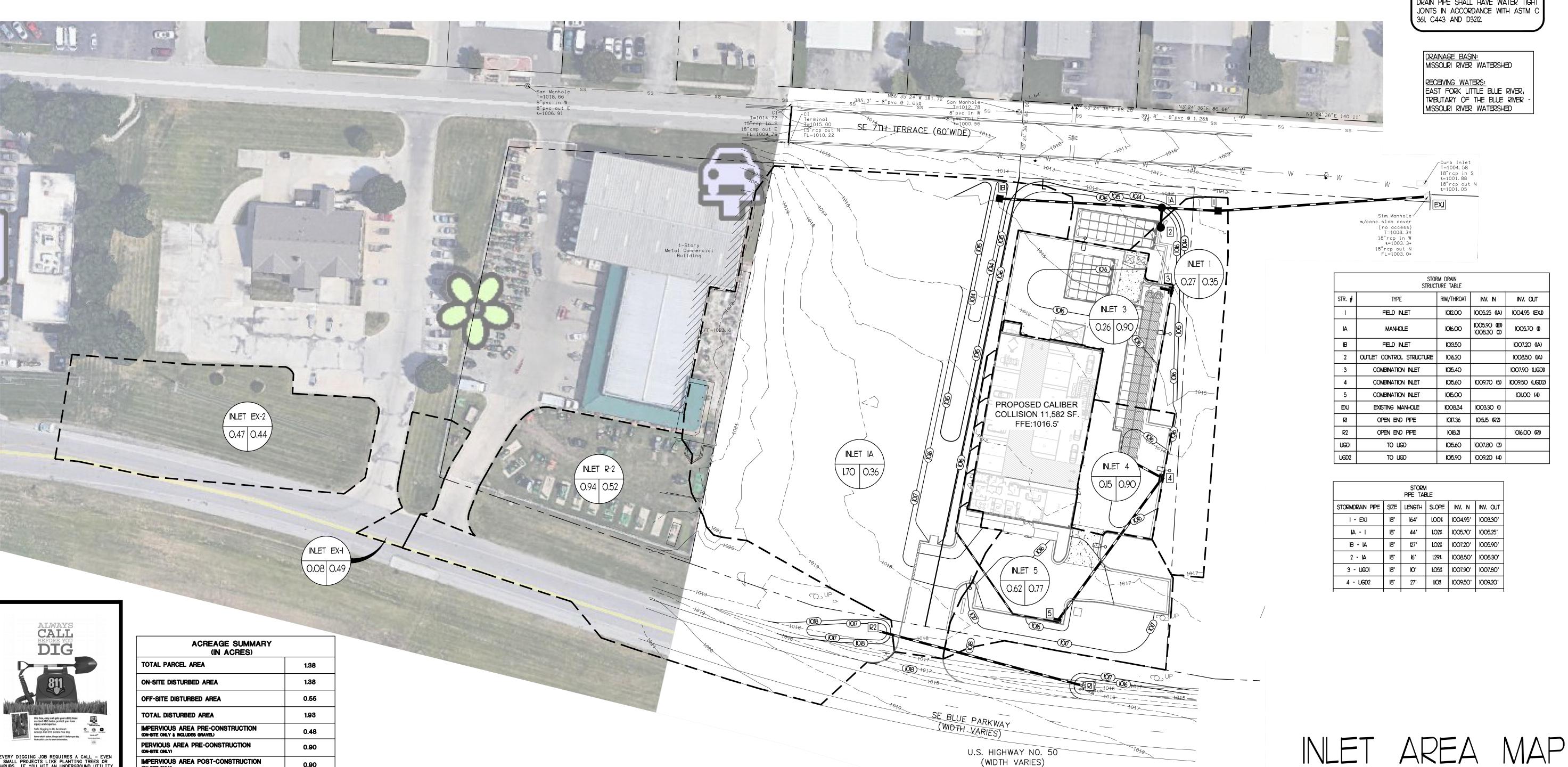
#### WATER TIGHT STORM PIPES: CONTRACTOR TO ENSURE THAT ALL STORM PIPES ARE WATER TIGHT AND

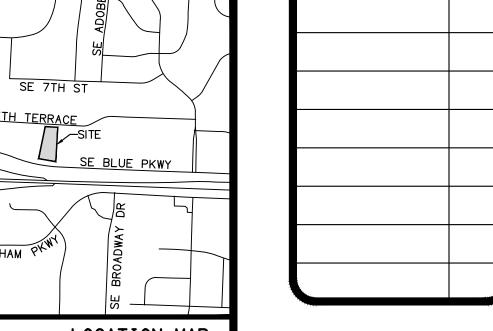
TESTED PER ASTM C902-02

CONTRACTOR TO ENSURE ALL STORM DRAIN PIPE SHALL HAVE WATER TIGHT

18"rcp out N STORM DRAIN STRUCTURE TABLE



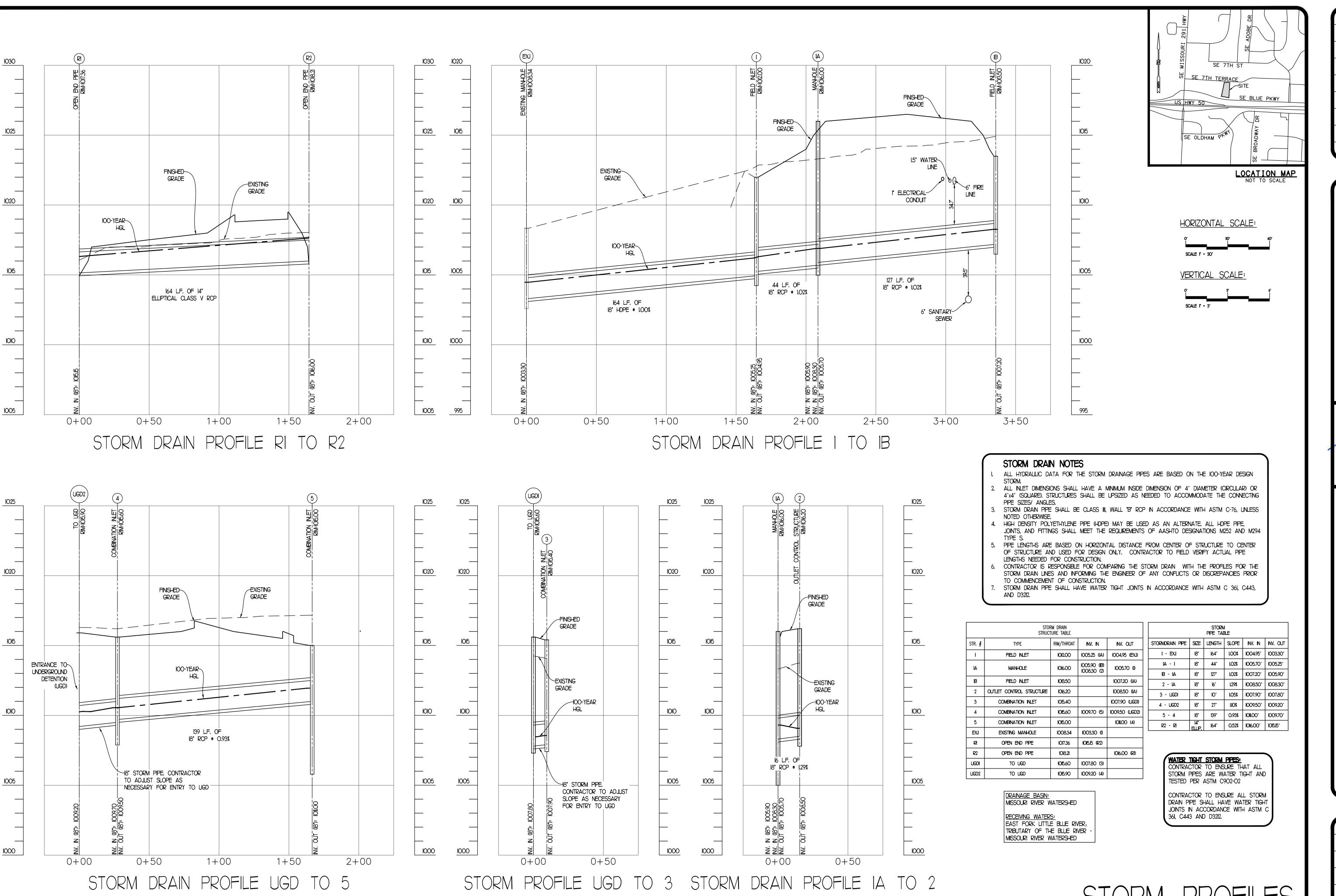




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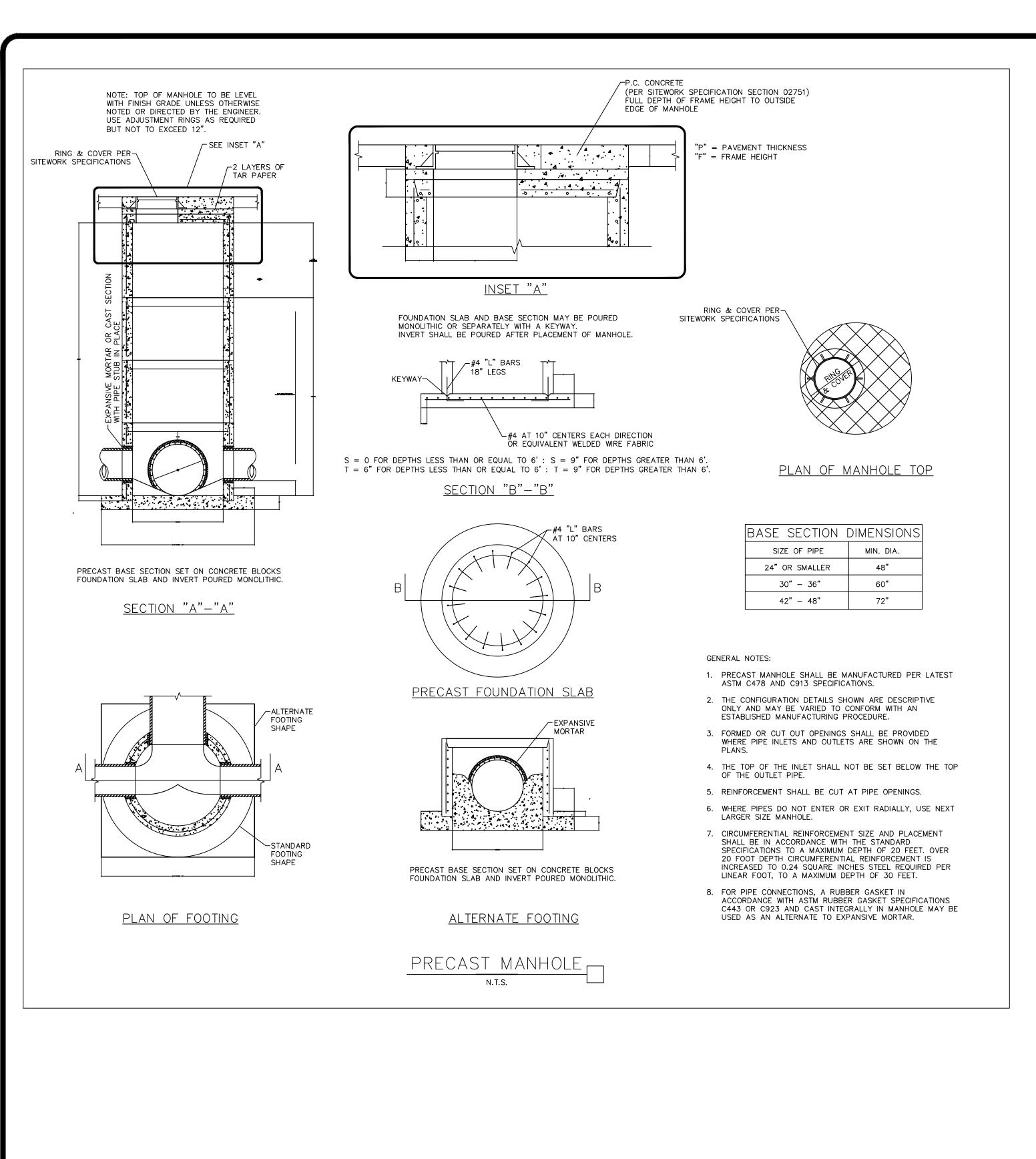
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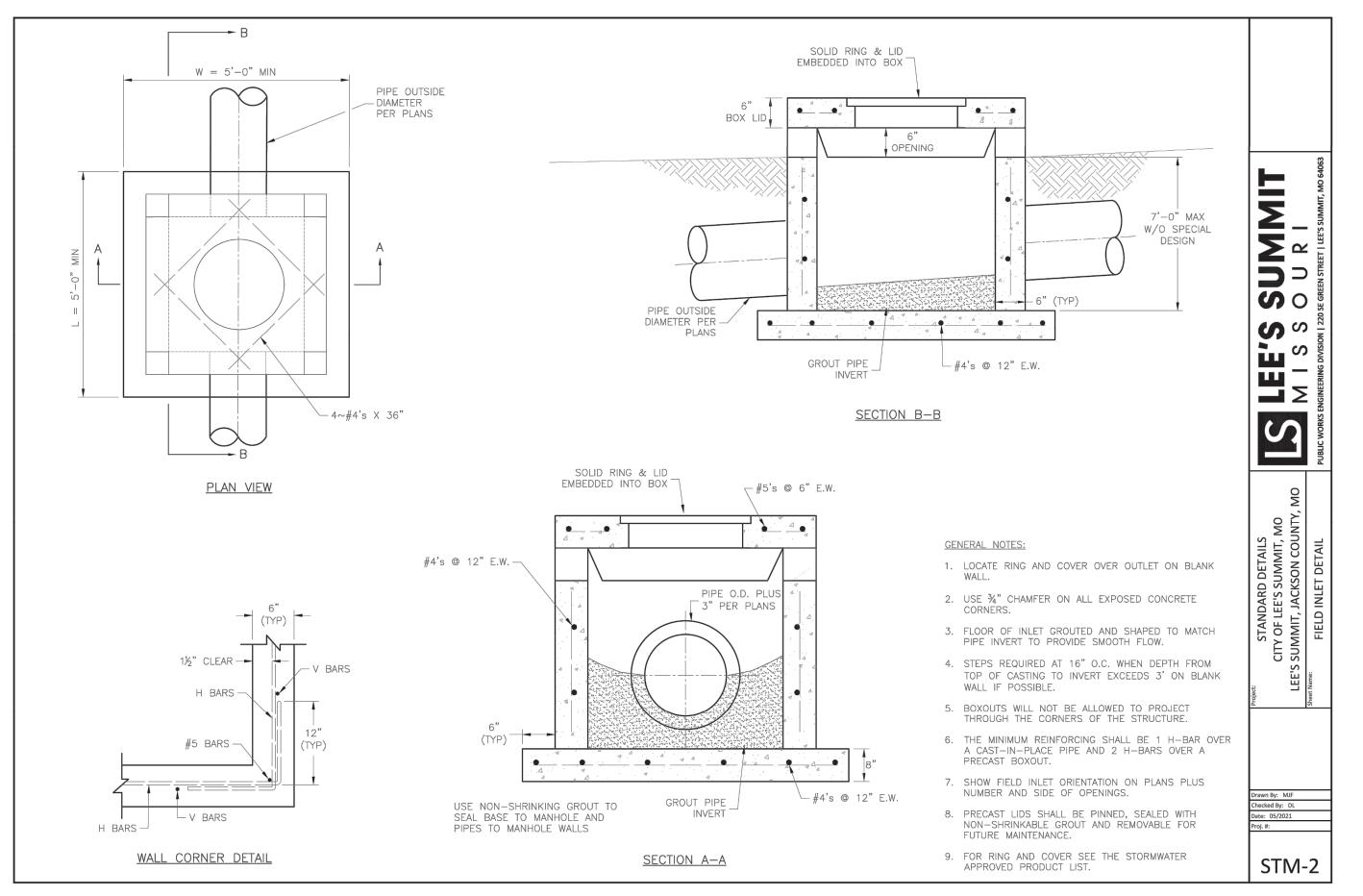
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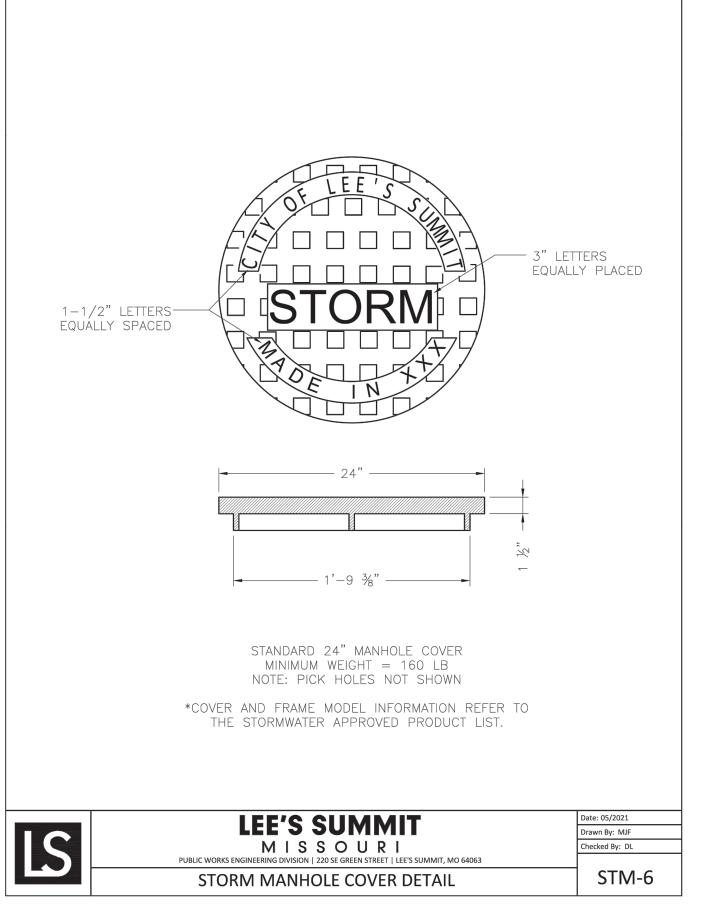
CALIBER COLLISION
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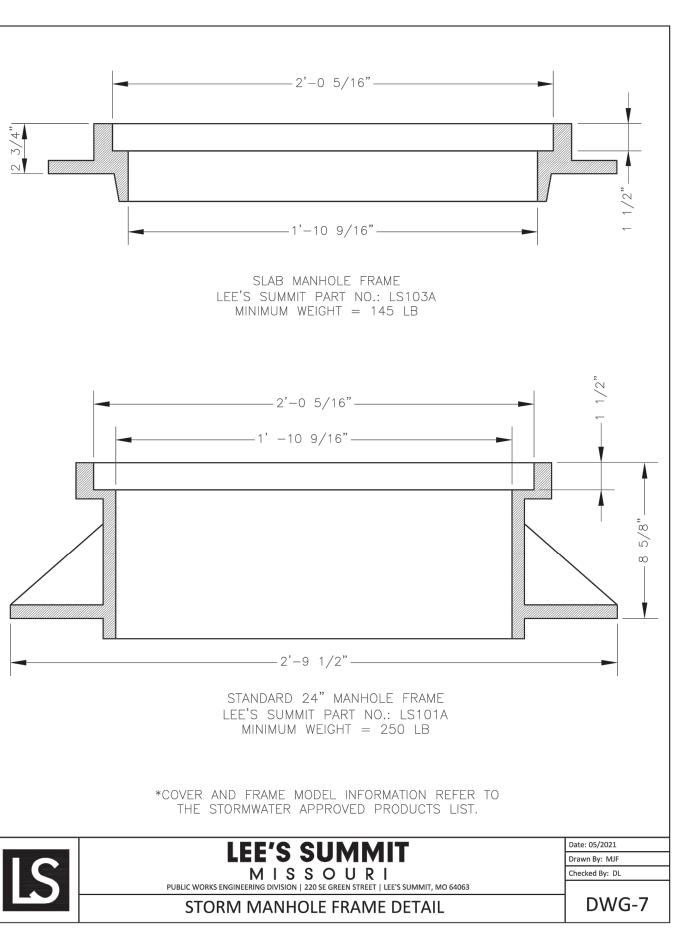
STORM PROFILES

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STORM DETAILS

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Carolina 29609
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233-8915

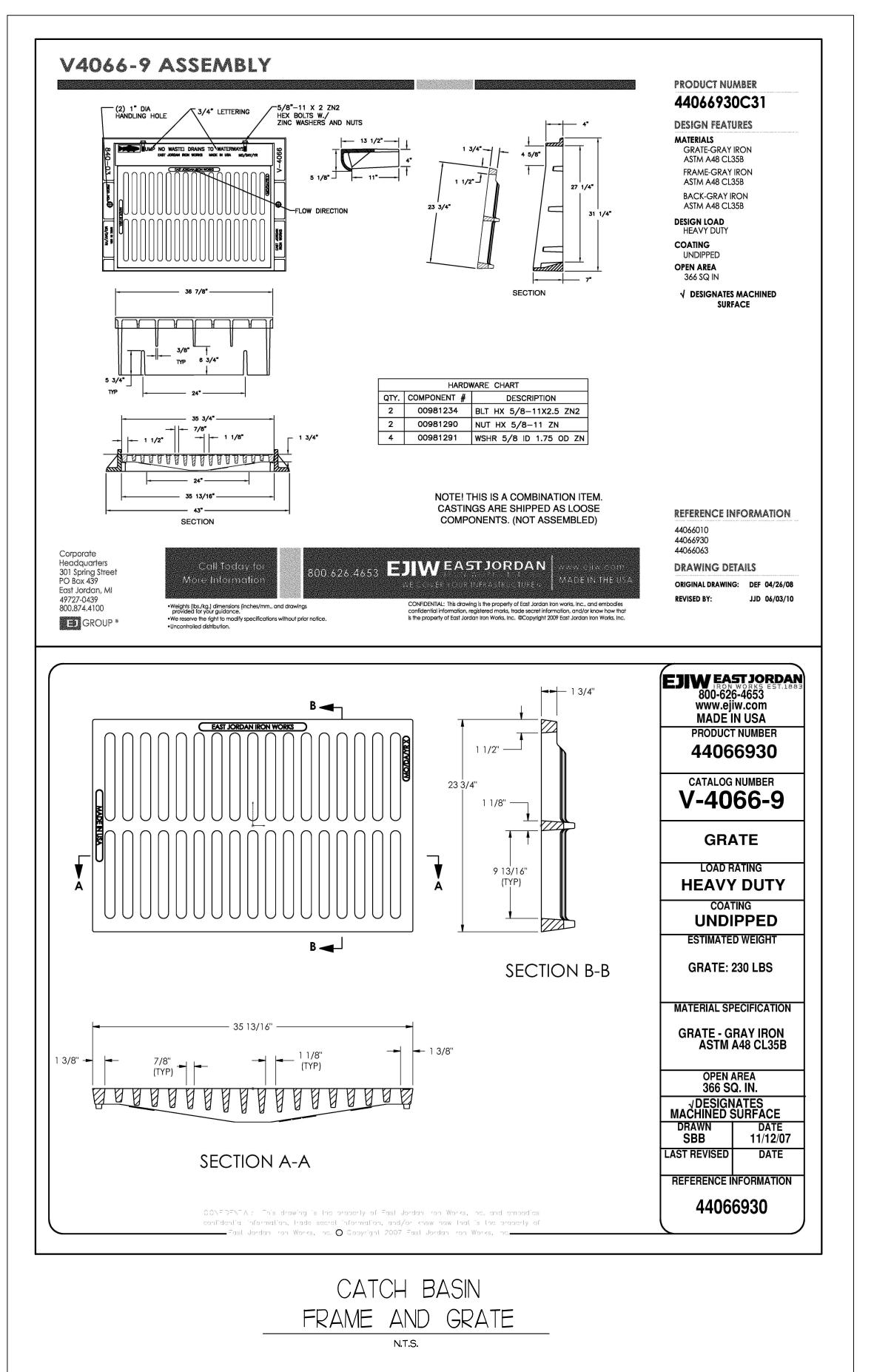
Engineers \* Landscape
209 West Stone A
Greenville, South Carollir
864-233-5497
fax 864-233-89

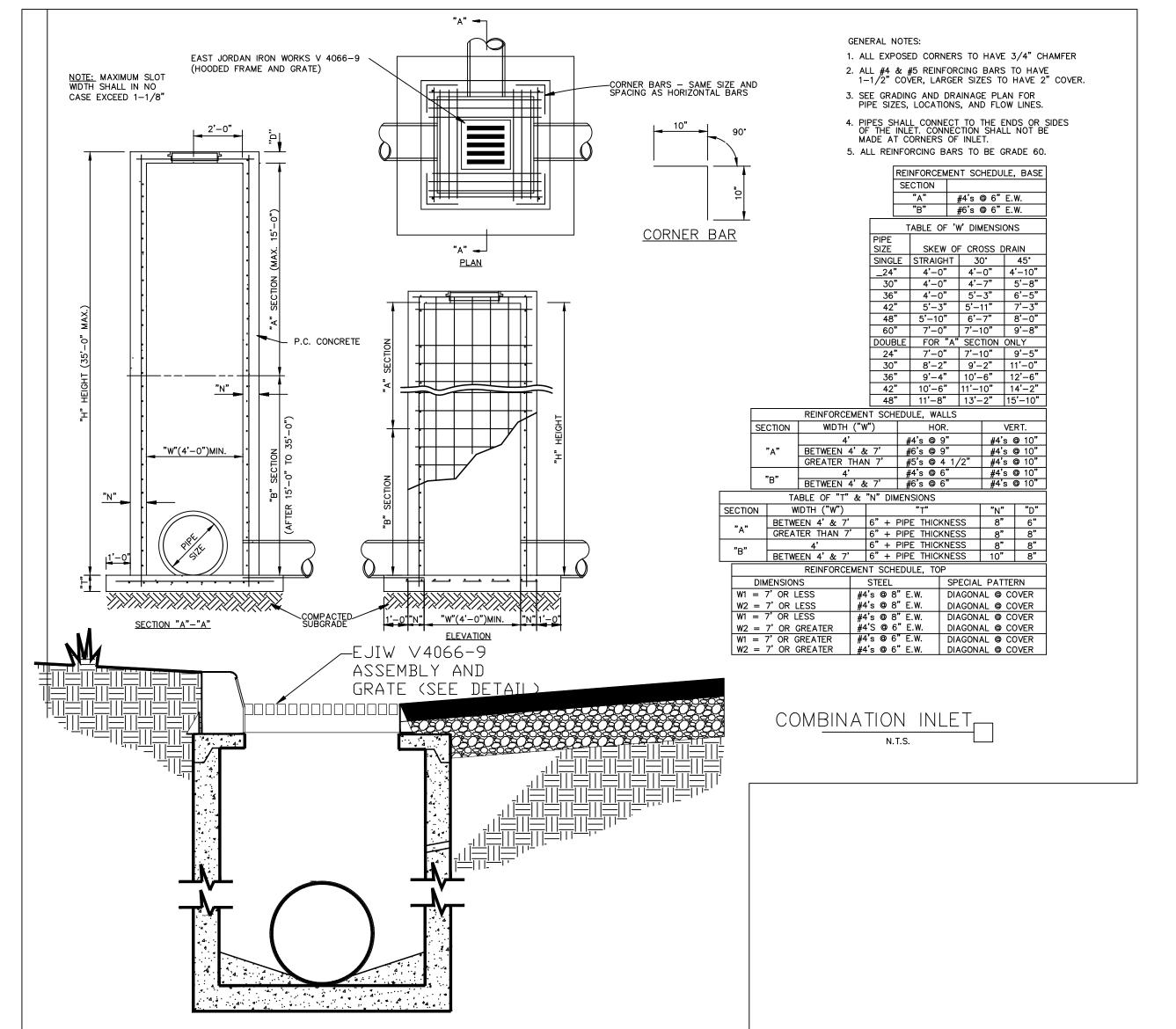


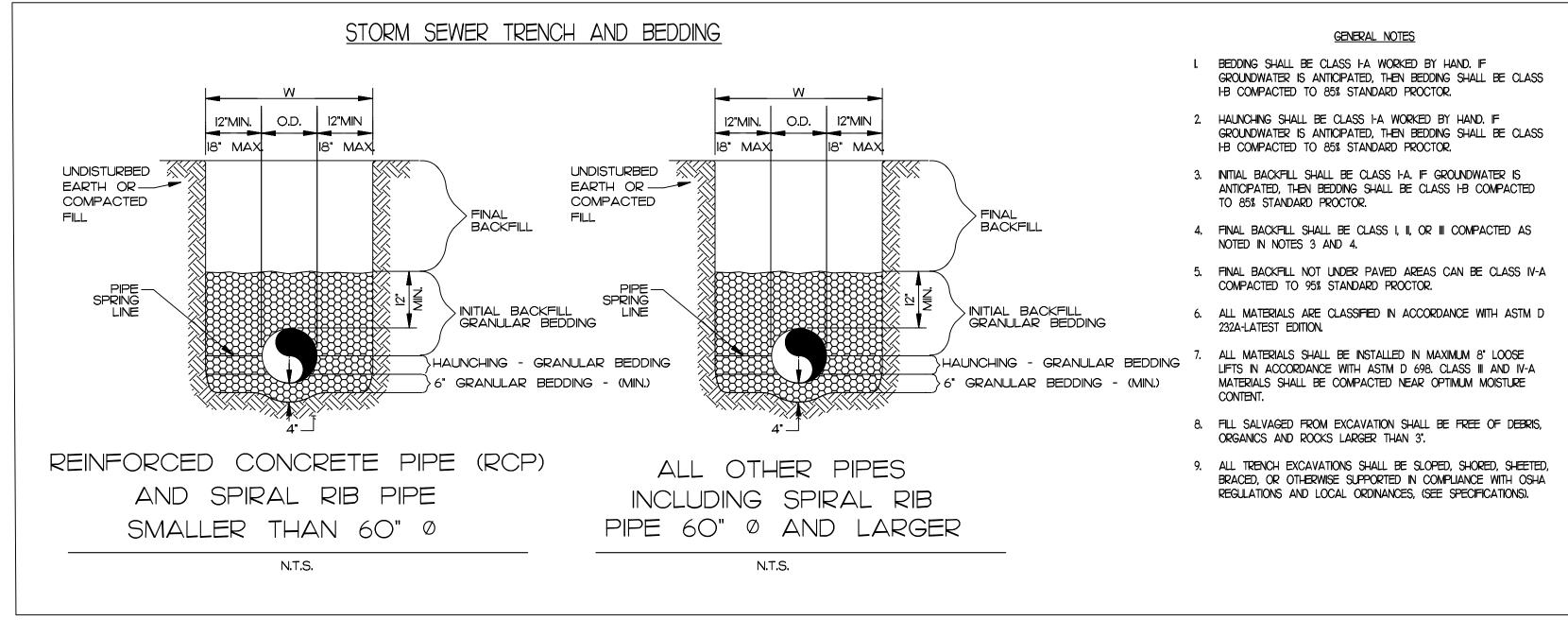
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STORM DETAILS





# CALIBER COLLISION

#### LEE'S SUMMIT, MO

#### MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
   CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE
  THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LIRED BRIDGE DESIGN SPECIFICATIONS. SECTION 12.12 ARE MET FOR: 1)
- 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.
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:

   TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING
- STACKING LUGS.

  TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 450 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   THE STRUCTURAL EVALUATION SHALL DEMONSTRATE 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 SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.

  THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

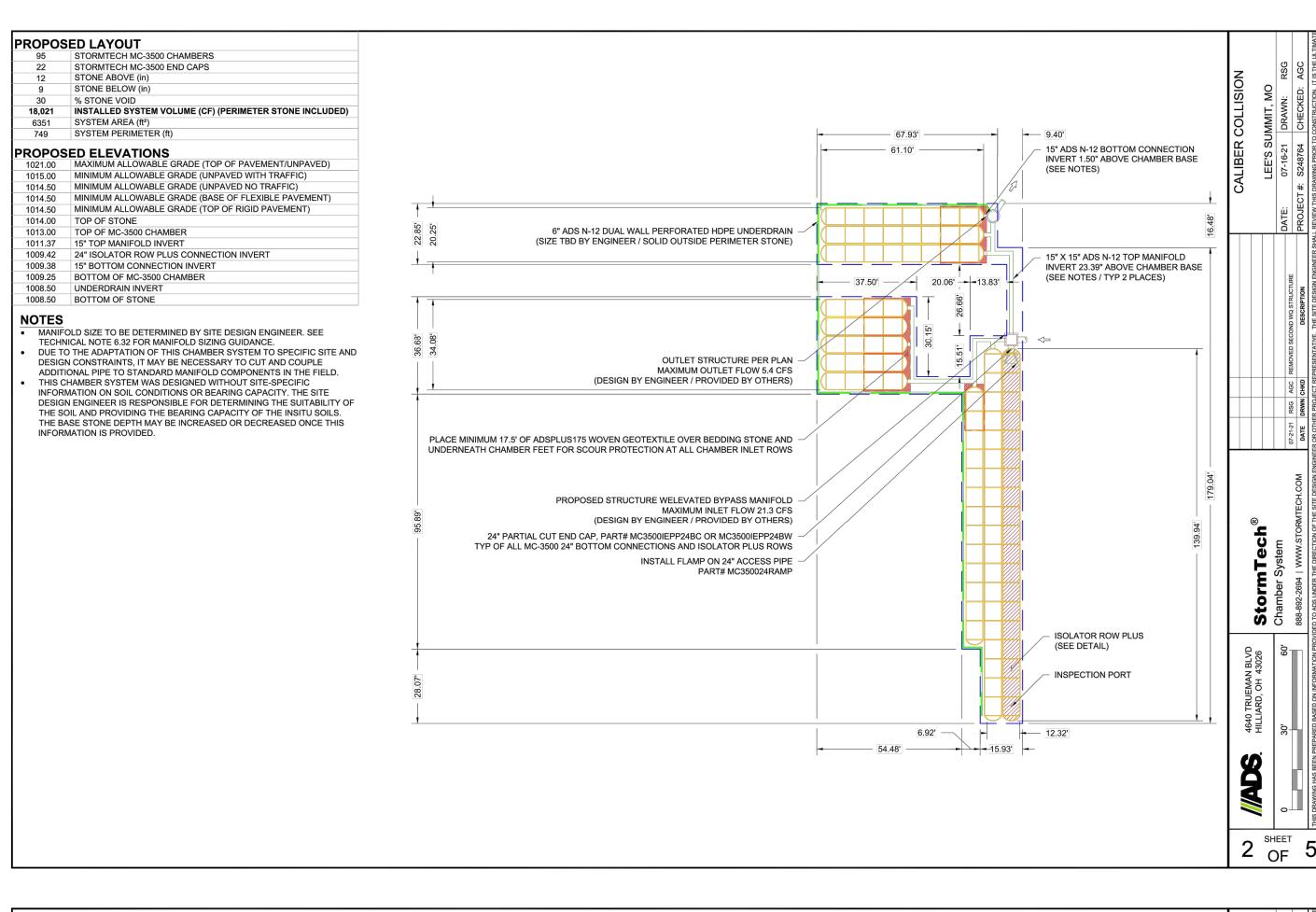
#### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

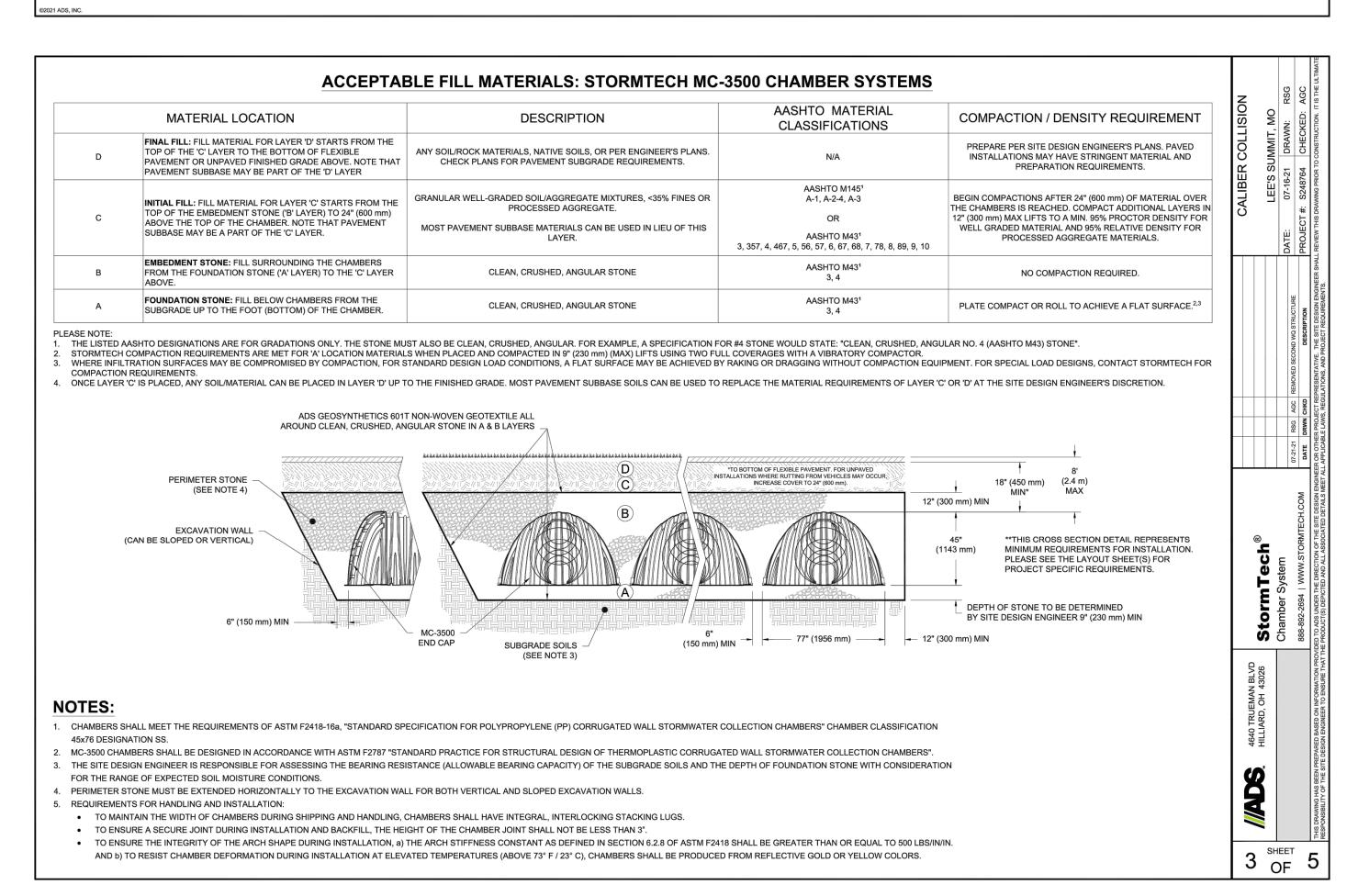
- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE 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.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. 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 MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
   10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- 11. 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.

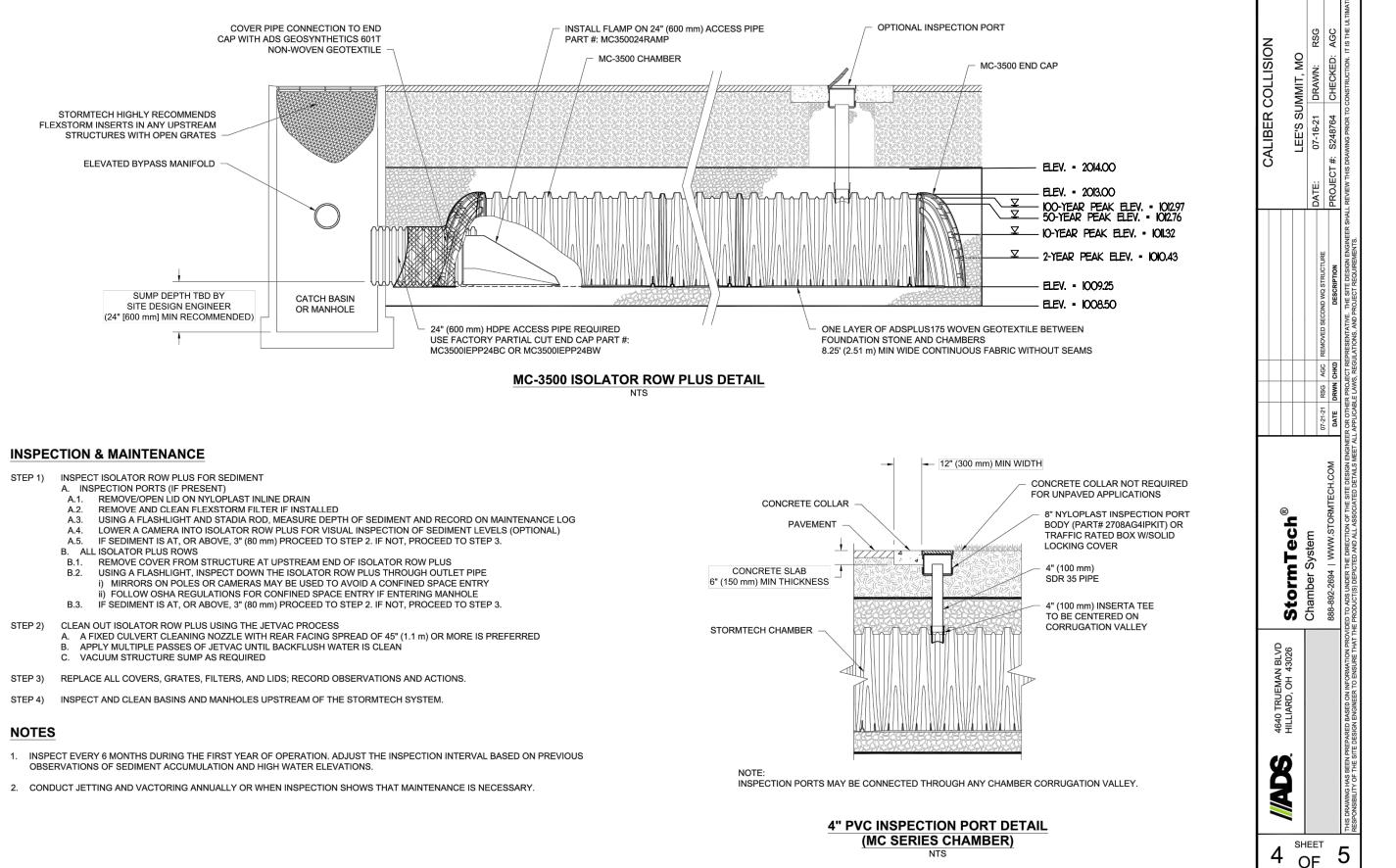
#### NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 2. 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".
- 3. 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

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







UGD DETAILS

REVISIONS BY

Greenville, South Carolina 29609

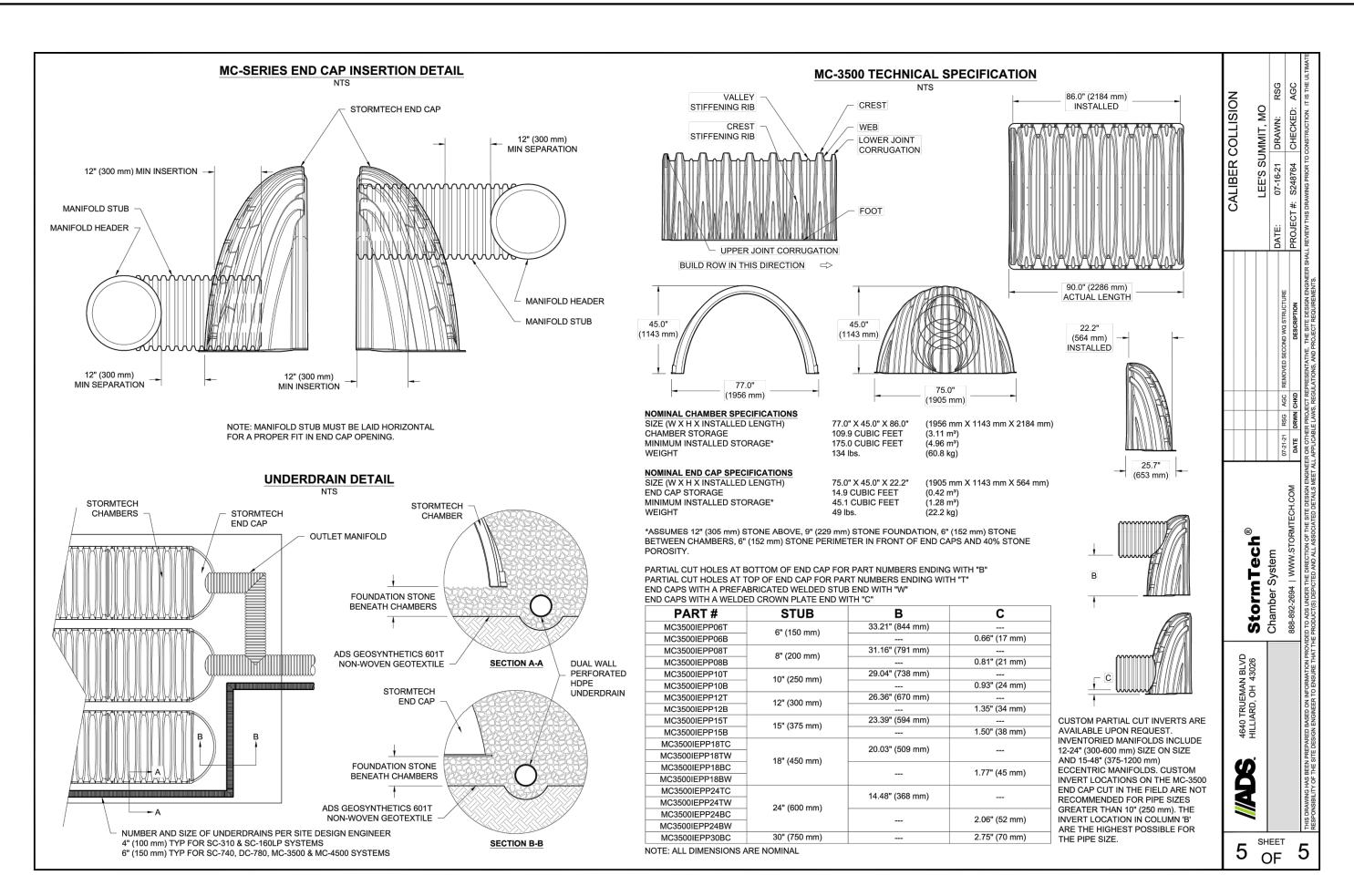
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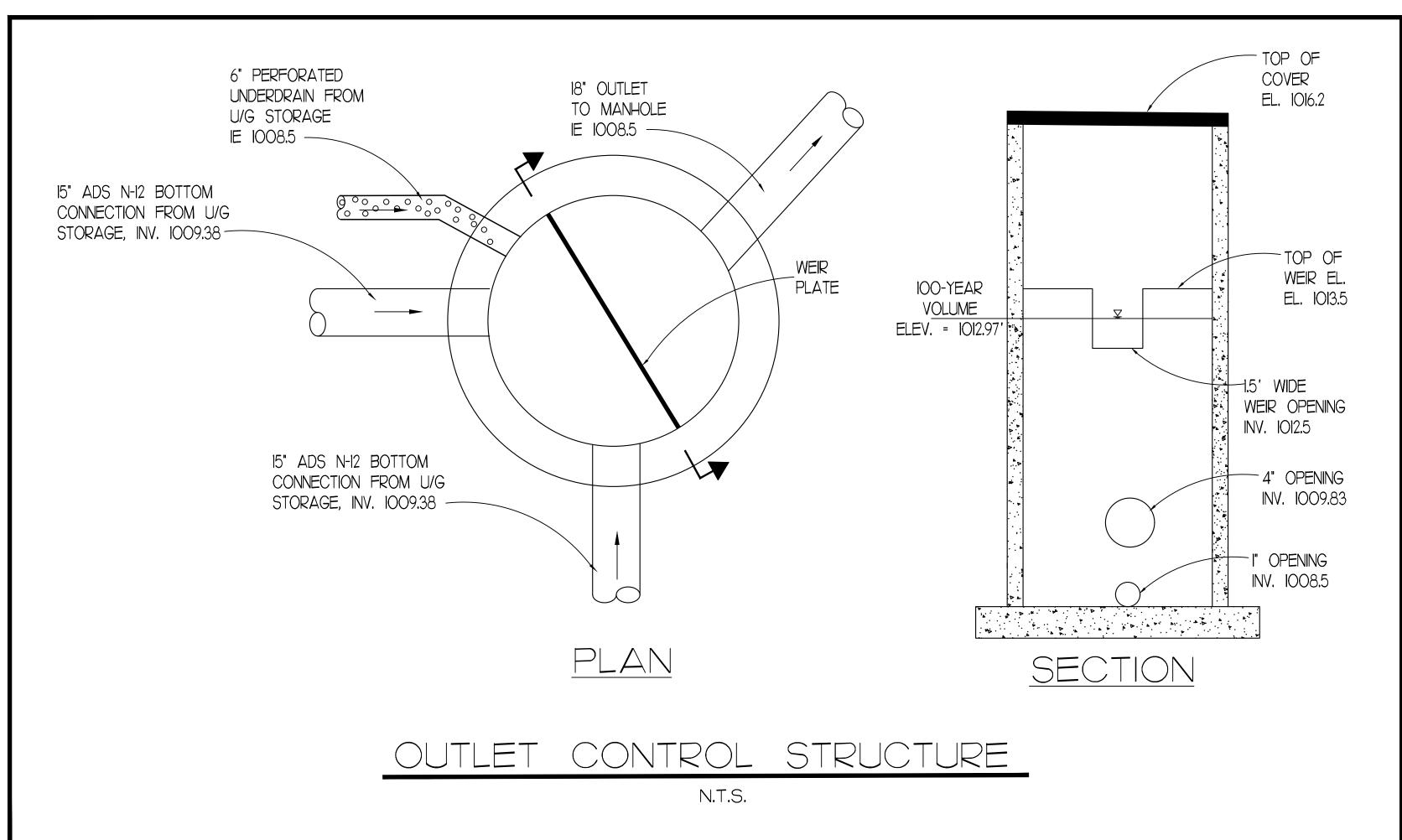


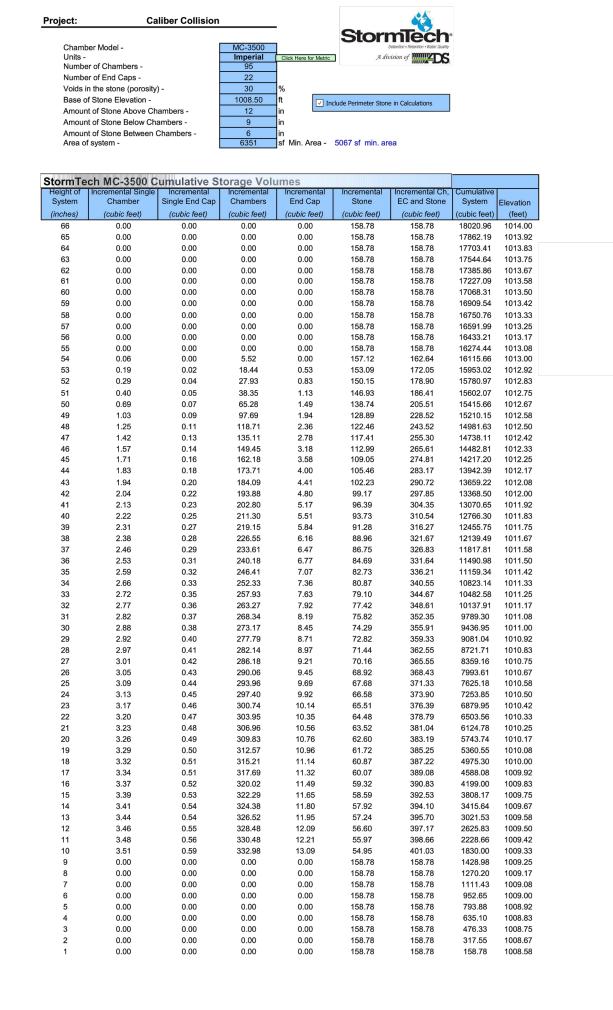
710 SE BLUE PARKWAY
LEE'S SUMMIT, MO 64063
ROSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4336 MARSH RIDGE ROAD

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II/17/2021
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### UNDERGROUND DETENTION NOTE

REFERENCE THE STORMWATER MANAGEMENT REPORT PREPARED BY FREELAND AND KAUFFMAN, INC. FOR ADDITIONAL INFORMATION ON THE UNDERGROUND DETENTION SYSTEM AND STORMWATER MANAGEMENT CALCULATIONS.

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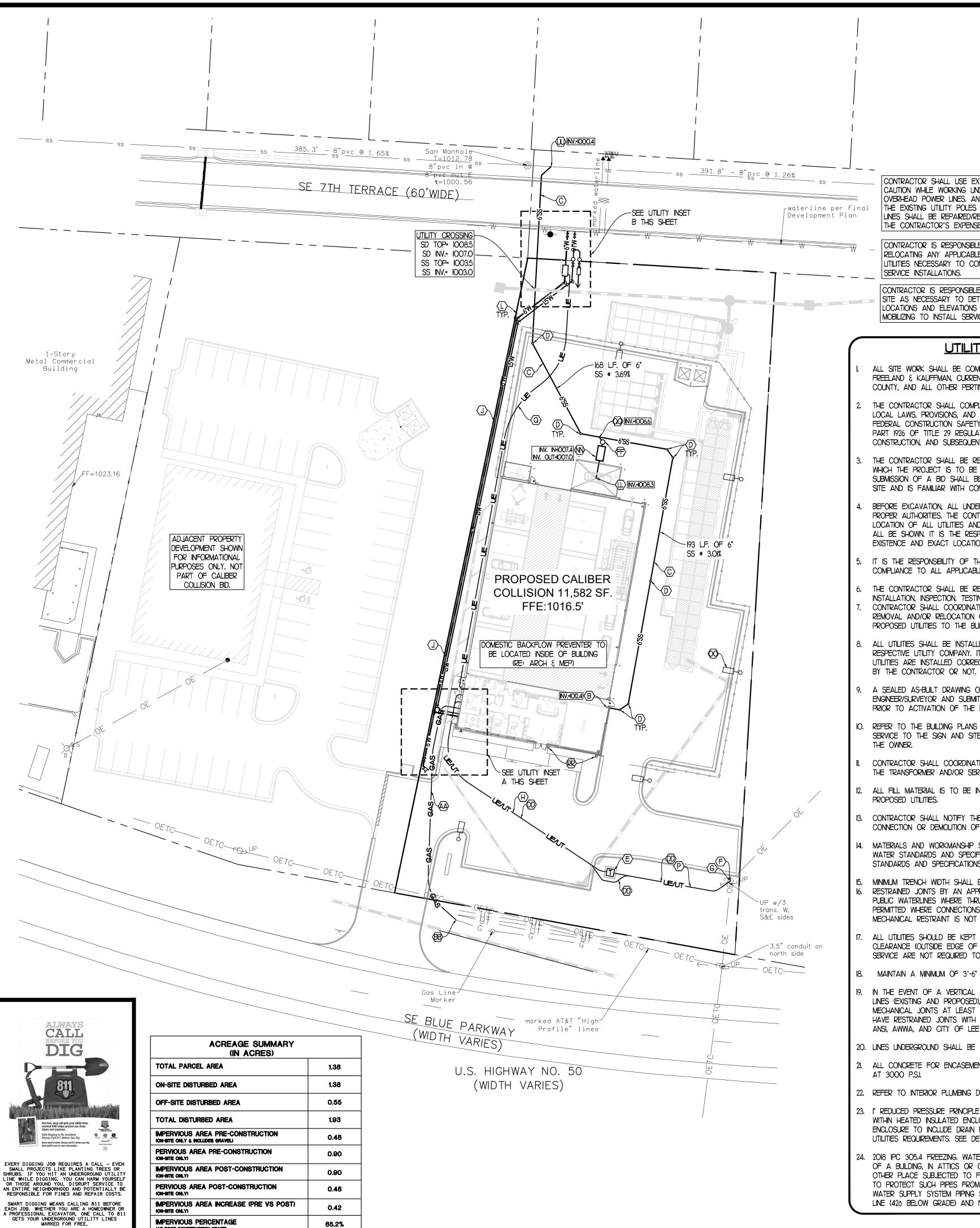
REVISIONS BY

Engineers \* Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497

TODD/ BURNET NUMBER 2021014925 OI/IO/2O2

LEE'S SUMMIT, MO 64063

SOSS DEVELOPMENT, CC LEE'S SUMMIT, LLC
4336 MARSH RIDGE ROAD
CARROLLTON, TX 75010



(AT POST-CONSTRUCTION STATE)

## UTILITY CONTACTS

EVERGY LEE'S SUMMIT SERVICE

CONTACT: DOUG DAVIN

PHONE: (816) 347-4320

LEE'S SUMMIT WATER UTILITIES PHONE: (816) 969-1900

LEE'S SUMMIT WATER UTILITIES

TELEPHONE/CABLE: PHONE: (816) 969-1900 CONTACT: DARRIN SHEPARD PHONE: (816) 772-0336

<u>GAS:</u> SPIRE, INC. CONTACT: BOBBIE SAULSBERRY PHONE: (816) 969-2266

CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING UNDERNEATH THE EXISTING UTILITY POLES AND UTILITY LINES SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY APPLICABLE CONFLICTING UTILITIES NECESSARY TO COMPLETE SERVICE INSTALLATIONS.

CONTRACTOR IS RESPONSIBLE FOR STAKING SITE AS NECESSARY TO DETERMINE SERVICE LOCATIONS AND ELEVATIONS PRIOR TO MOBILIZING TO INSTALL SERVICES.

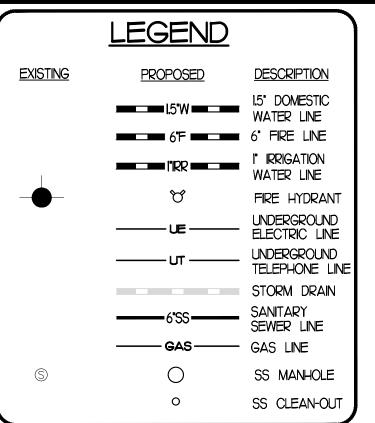
CONTRACTOR SHALL ENSURE THAT PROPOSED WATER LINE EXTENSION HAS A MINIMUM OF 18" VERTICAL OVERHEAD POWER LINES. ANY DAMAGE TO | CLEARANCE WHEN CROSSING STORM & SANITARY SEWER (PROPOSED OR EXISTING). BENDS AND FITTINGS SHALL BE UTILIZED TO MEET THIS REQUIREMENT.

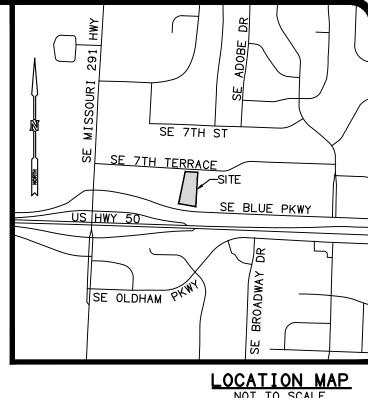
> CONTRACTOR TO INCLUDE ALL METER INSTALLATION AND CAPACITY FEES FOR UTILITY SERVICES IN THE BASE BID TO PROVIDE UTILITY SERVICES AS SHOWN

HYDRANTS SHALL BE PROTECTED FROM MECHANICAL DAMAGE. THE MEANS OF PROTECTION SHALL BE ARRANGED SO THAT IT WILL NOT INTERFERE WITH THE OPERATION OF THE HYDRANT (3 FEET CLEARANCE).

#### UTILITY PLAN NOTES

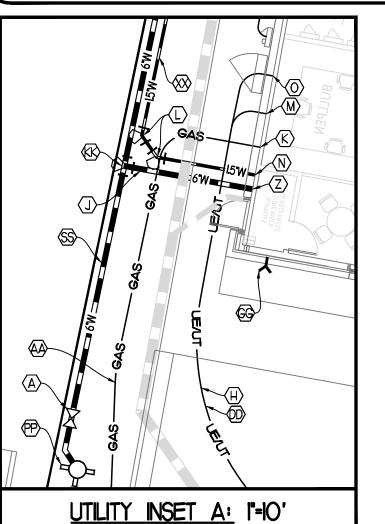
- ALL SITE WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PLANS PREPARED BY FREELAND & KAUFFMAN, CURRENT REQUIREMENTS OF LEE'S SUMMIT WATER UTILITIES, JACKSON COUNTY, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.
- THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-54), FEDERAL REGISTER, CHAPTER XVII, PART 1926 OF TITLE 29 REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS UPDATING THESE REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
- BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 811. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL EXISTING UTILITIES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BID AND PERFORM ALL UTILITY WORK IN COMPLIANCE TO ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE
- INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION REMOVAL AND/OR RELOCATION OF UTILITIES AND UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES TO THE BUILDING.
- ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED
- A SEALED AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE ENGINEER/SURVEYOR AND SUBMITTED TO LEE'S SUMMIT WATER UTILITIES UPON COMPLETION 8 PRIOR TO ACTIVATION OF THE PROJECT.
- IO. REFER TO THE BUILDING PLANS FOR ALL CONDUIT SIZES, NUMBER AND LOCATIONS FOR SERVICE TO THE SIGN AND SITE LIGHT POLES, COORDINATE FINAL CONDUIT LOCATIONS WITH
- CONTRACTOR SHALL COORDINATE WITH THE OWNER ON CONDUIT ROUTE TO THE STORE FROM THE TRANSFORMER AND/OR SERVICE UTILITY POLE FOR TELEPHONE AND ELECTRICAL SERVICES.
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED PRIOR TO INSTALLATION OF
- CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY'S INSPECTORS 72 HOURS BEFORE CONNECTION OR DEMOLITION OF ANY EXISTING LINE.
- MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LEE'S SUMMIT WATER UTILITIES WATER STANDARDS AND SPECIFICATIONS AND LEE'S SUMMIT WATER UTILITIES SEWER STANDARDS AND SPECIFICATIONS.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- RESTRAINED JOINTS BY AN APPROVED PIPE MANUFACTURER ARE TO BE USED FOR ALL PUBLIC WATERLINES WHERE THRUST RESTRAINING IS REQUIRED, HOWEVER, THRUST BLOCKS ARE PERMITTED WHERE CONNECTIONS ARE MADE TO EXISTING WATERLINES OR WHERE THE USE OF MECHANICAL RESTRAINT IS NOT FEASIBLE.
- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE). UTILITIES OF THE SAME SERVICE ARE NOT REQUIRED TO PROVIDE 18" OF VERTICAL SEPARATION
- MAINTAIN A MINIMUM OF 3'-6" COVER ON ALL WATERLINES.
- IN THE EVENT OF A VERTICAL CROSSING LESS THAN 18" BETWEEN WATERLINES AND SANITARY LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE RESTRAINED JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED MEETING ALL ANSI, AWWA, AND CITY OF LEE'S SUMMIT WATER UTILITIES REQUIREMENTS.
- 20. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- 21. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH
- 22. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- 23. I' REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLED ABOVE-GROUND WITHIN HEATED INSULATED ENCLOSURE PER LEE'S SUMMIT WATER UTILITIES REQUIREMENTS. ENCLOSURE TO INCLUDE DRAIN PORT(S) FOR DISCHARGE WATER PER LEE'S SUMMIT WATER UTILITIES REQUIREMENTS. SEE DETAIL ON UTILITY DETAILS SHEET.
- 24. 2018 IPC 305.4 FREEZING. WATER, SOIL, AND WASTE PIPES SHALL NOT BE INSTALLED OUTSIDE OF A BUILDING, IN ATTICS OR CRAWL SPACES, CONCEALED IN OUTSIDE WALLS, OR IN ANY OTHER PLACE SUBJECTED TO FREEZING TEMPERATURES UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPES FROM FREEZING BY INSULATION OR HEAT OR BOTH, EXTERIOR WATER SUPPLY SYSTEM PIPING SHALL BE INSTALLED NOT LESS THAN 60 BELOW THE FROST LINE (426 BELOW GRADE) AND NOT LESS THAN 12 INCHES BELOW GRADE.

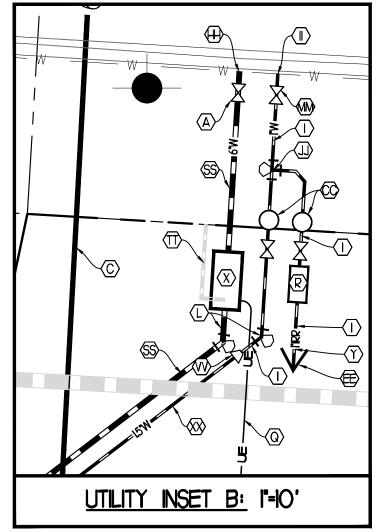




## **ELECTRIC SERVICE NOTES:**

- CONTRACTOR RESPONSIBLE FOR COORDINATING TIMING AND EXACT CONDUIT ROUTING WITH EVERGY.
- CONTRACTOR SHALL INSTALL TRANSFORMER PAD PER EVERGY STANDARDS AND SPECIFICATIONS EVERGY SHALL INSTALL TRANSFORMER AND PRIMARY CONDUIT & CALBE FROM THE EXISTING UTILITY TO THE PROPOSED TRANSFORMER LOCATION.
- CONTRACTOR SHALL INSTALL CT ENCLOSURE, CT, METER BASE, AND METER AT ONCE EVERGY HAS INSTALLED THE TRANSFORMER.
- CONTRACTOR SHALL PROVIDE AND INSTALL SECONDARY CONDUIT & CABLE FOR SERVICE (SEE KEYNOTES FOR SIZE AND CONTRACTOR IS RESPONSIBLE FOR INSPECTION OF PROPER ELECTRICAL SERVICE INSTALLATION UPON COMPLETION.





#### **KEYNOTES**

(O) ELECTRIC SERVICE ENTRY (RE: ARCH

P (2)-6" PRIMARY ELECTRICAL CONDUIT &

NOTES THIS SHEET FOR LIST OF

PULLWIRE, SEE ELECTRIC SERVICE

(Q) I' LOW VOLTAGE ELECTRICAL CONDUIT

BACKFLOW PREVENTER FOR IRRIGATION

SERVICE LOCATED IN BELOW GROUND

FIBERGLASS BOX PER LEE'S SUMMIT

WATER UTILITIES WATER STANDARDS

(X) 6 DOUBLE DETECTOR CHECK VALVE

SUMMIT WATER UTILITIES WATER

Y I IRRIGATION WATERLINE PER LEE'S

SUMMIT WATER UTILITIES WATER

(BB) GAS SERVICE POINT OF CONNECTION.

(C) I' DOMESTIC WATERLINE METER BOX

UTILITIES STANDARDS

DOMINION ENERGY TO EXTEND SERVICE

INSTALLED PER LEE'S SUMMIT WATER

(D) (2) 4" TELEPHONE CONDUIT & PULLWIRE BY

CONTRACTOR - SERVICE BY AT&T

I' WATER LINE TO SITE IRRIGATION

(Z) FIRE LINE ENTRY (RE:ARCH)

(AA) I' GAS SERVICE LINE.

FROM MAIN.

STANDARDS

STANDARDS

BACKFLOW PREVENTER FOR FIRE

SERVICE LOCATED IN BELOW GROUND

VAULT WITH SUMP PUMP PER LEE'S

(R) I' DOUBLE DETECTOR CHECK VALVE

FOR EXACT LOCATION)

RESPONSIBILITIES

FOR SUMP PUMP

- (A) 6' GATE VALVE PER LEE'S SUMMIT WATER UTILITIES STANDARDS
- (B) SANITARY SEWER EXIT (RE: ARCH. FOR EXACT LOCATION)
- (C) 6" PVC SANITARY SEWER LATERAL. SEE PLAN FOR SLOPE (RE: ARCH, FOR BUILDING ENTRY)
- (D) SEWER CLEAN-OUT (SEE DETAIL)
- (E) TRANSFORMER PAD AND METER. SEE ELECTRIC SERVICE NOTES THIS SHEET FOR LIST OF RESPONSIBILITIES.
- (F) UNDERGROUND TELEPHONE POINT OF CONNECTION AT POLE BY ATET
- (G) UNDERGROUND ELECTRIC POINT OF CONNECTION AT POLE BY EVERGY LEE'S SUMMIT SERVICE CENTER
- H CONTRACTOR TO PROVIDE (2) 4" CONDUIT AND SERVICE FOR SECONDARY UNDERGROUND ELECTRIC UTILITY. (RE:ARCH FOR BUILDING ENTRY)
- T) I' SOFT TYPE "K" COPPER DOMESTIC WATERLINE PER LEE'S SUMMIT WATER UTILITIES STANDARDS A MINIMUM OF 10' BEYOND METER WALL
- (J) 6" WATERLINE FOR FIRE SERVICE PER LEE'S SUMMIT WATER UTILITIES STANDARDS
- K GAS SERVICE ENTRY AND METER (RE:
- (L) WATER LINE BEND WITH THRUST BLOCK
- (M) TELEPHONE SERVICE ENTRY (RE: ARCH)
- SAMPLING WELL (RE: ARCH) (N) DOMESTIC WATERLINE ENTRY (RE: ARCH) BUILDING MOUNTED FDC PER FIRE MARSHAL STANDARDS TO BE LOCATED WITHIN 100 FEET OF THE PROPOSED FIRE HYDRANT.

SEE DETAIL

(BY OTHERS)

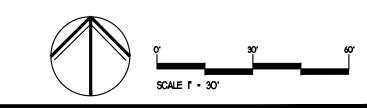
- (H) 8" X 6" CUT IN TEE, VALVE AND THRUST BLOCK TO EXISTING MAIN PER LEE'S
- (II) 6" X I" TAP WITH A CORPORATION STOP TO EXISTING MAIN PER LEE'S SUMMIT WATER UTILITIES STANDARDS.

UTILITIES STANDARDS

(JJ) I'X I' TEE PER LEE'S SUMMIT WATER

SUMMIT WATER UTILITIES STANDARDS.

- (K) 6" X 6" TEE PER LEE'S SUMMIT WATER UTILITIES STANDARDS
- (LL) SANITARY SEWER EXIT FROM DETAIL BAY
- (RE: ARCH FOR EXACT LOCATION) (MIN) DOMESTIC WATER GATE VALVE
- (NN) SAND/OIL SEPARATOR (RE: ARCH)
- (O) SITE LIGHTING, TYPICAL (RE: PHOTOMETRIC)
- (PP) FIRE HYDRANT PER LEE'S SUMMIT WATER UTILITIES AND CITY OF LEE'S SUMMIT FIRE MARSHALL STANDARDS.
- (QQ) SANITARY SEWER WYE CONNECTION. SEE PLAN FOR INVERT.
- (RR) KNOX BOX PER LEE'S SUMMIT WATER UTILITIES AND CITY OF LEE'S SUMMIT FIRE MARSHALL STANDARDS.
- (SS) 6" C900 PVC WATER LINE PER CITY OF LEE'S SUMMIT WATER UTILITIES STANDARDS & SPECIFICATIONS
- (TT) 1.5" PVC DRAIN PIPE TO DAYLIGHT TO EXISTING DITCH, SEE GRADING PLAN
- (U) CONNECT 6" SANITARY SEWER LATERAL TO 8" MAIN VIA 8" X 6" CUT-IN WYE, SEE PLAN FOR INVERT
- (VV) I' TO 1.5" INVERTED REDUCER
- I.5" DOMESTIC WATERLINE PER LEE'S SUMMIT WATER UTILITIES STANDARDS



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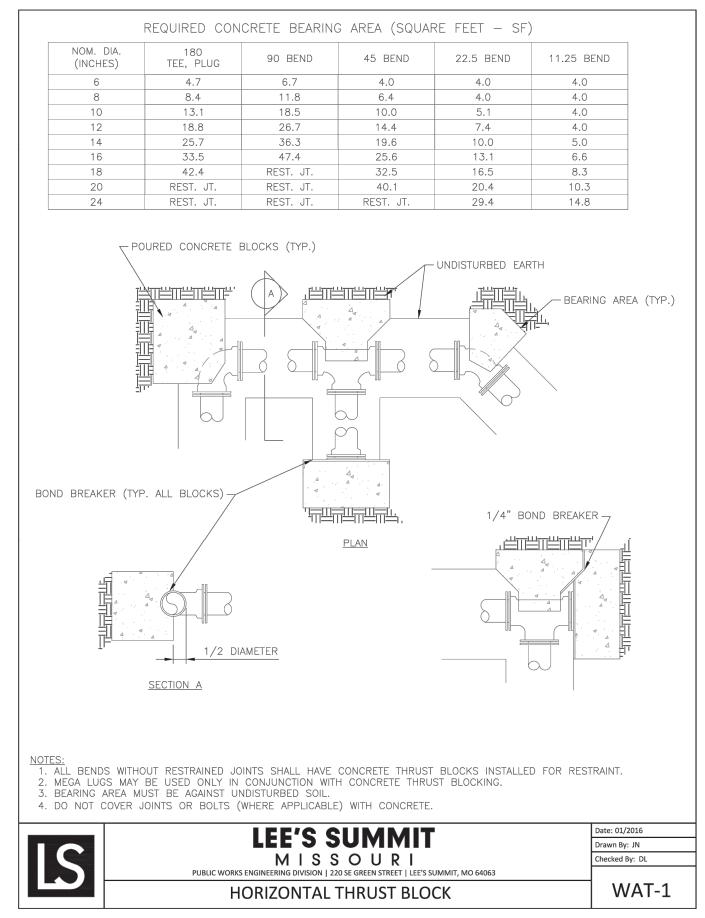


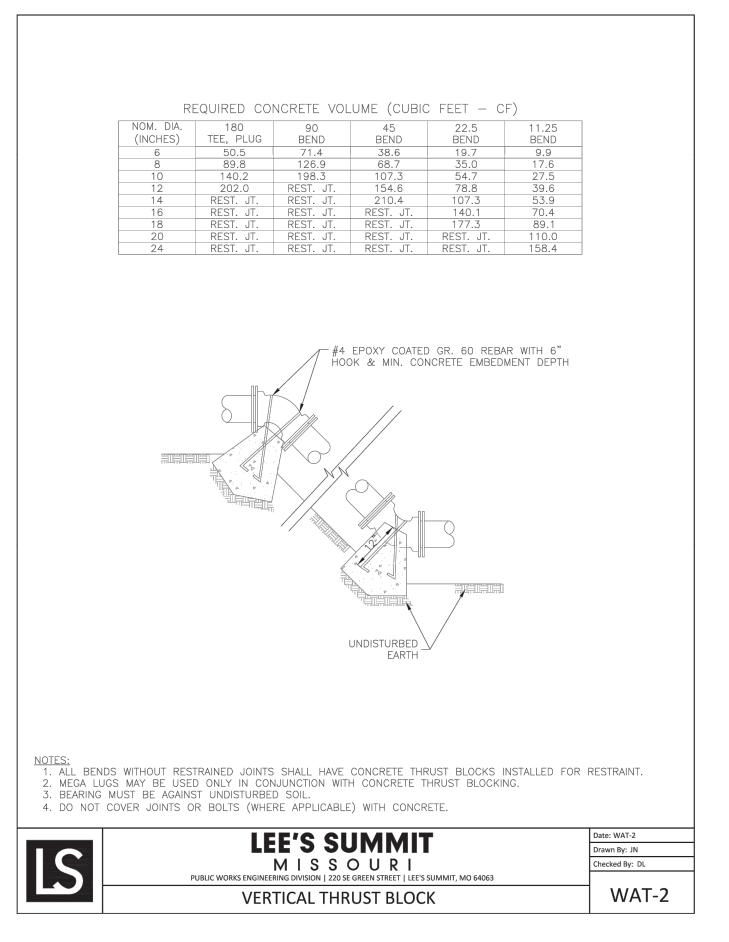
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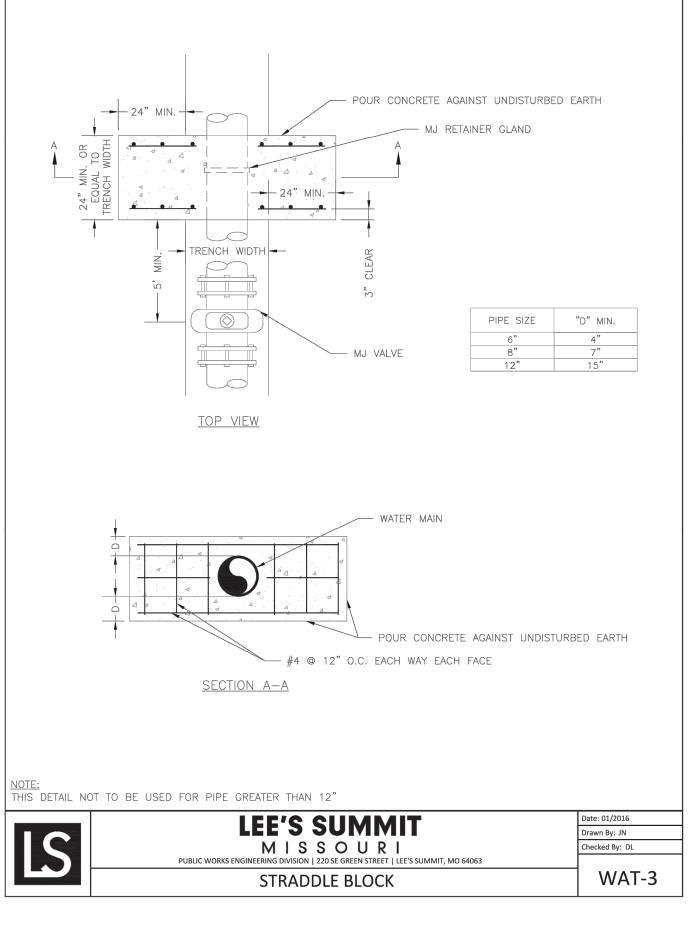
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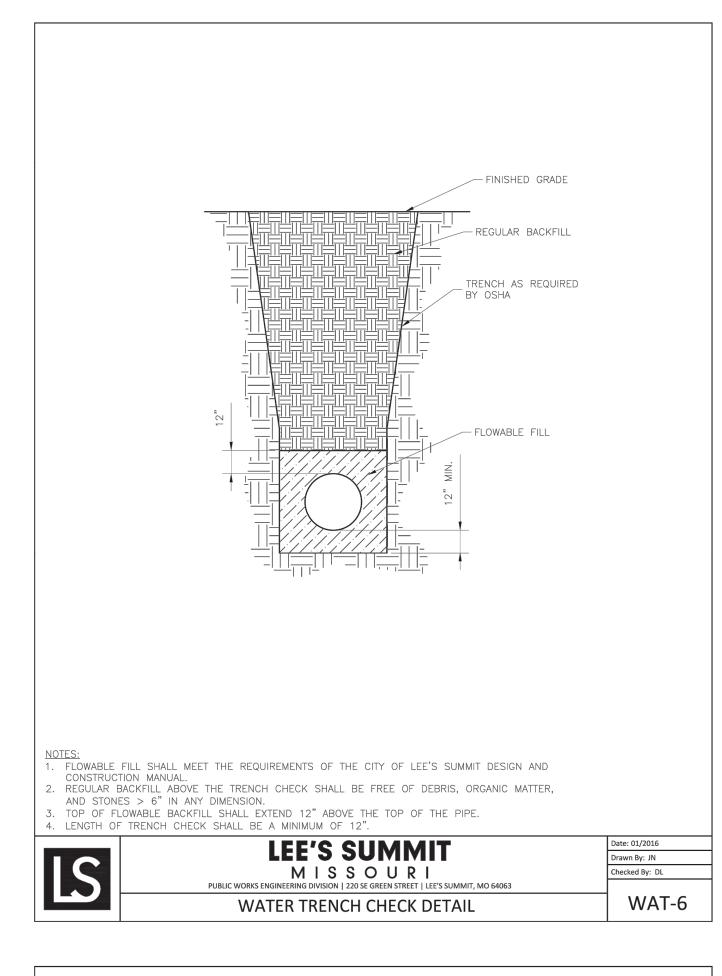
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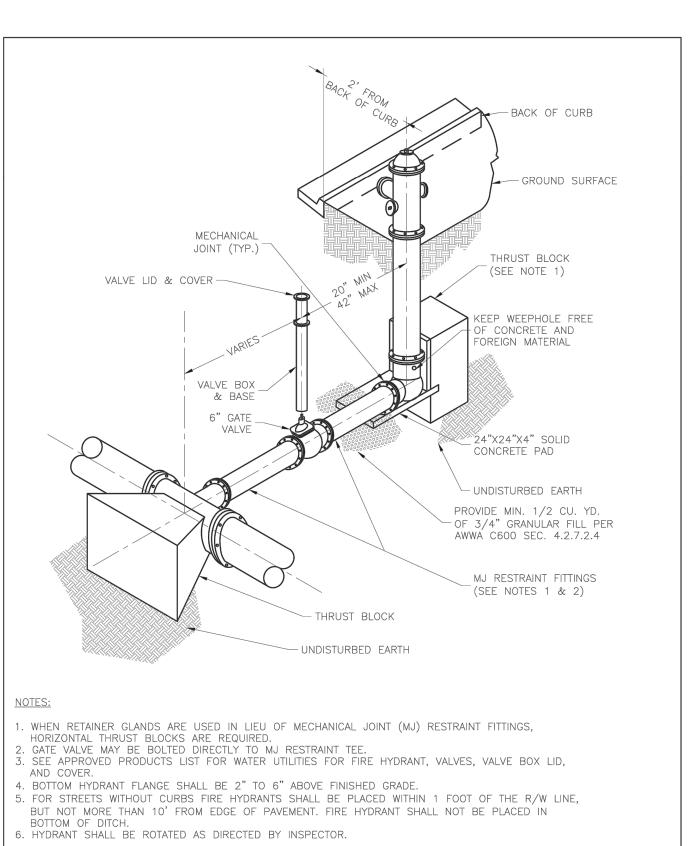
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**LEE'S SUMMIT** 

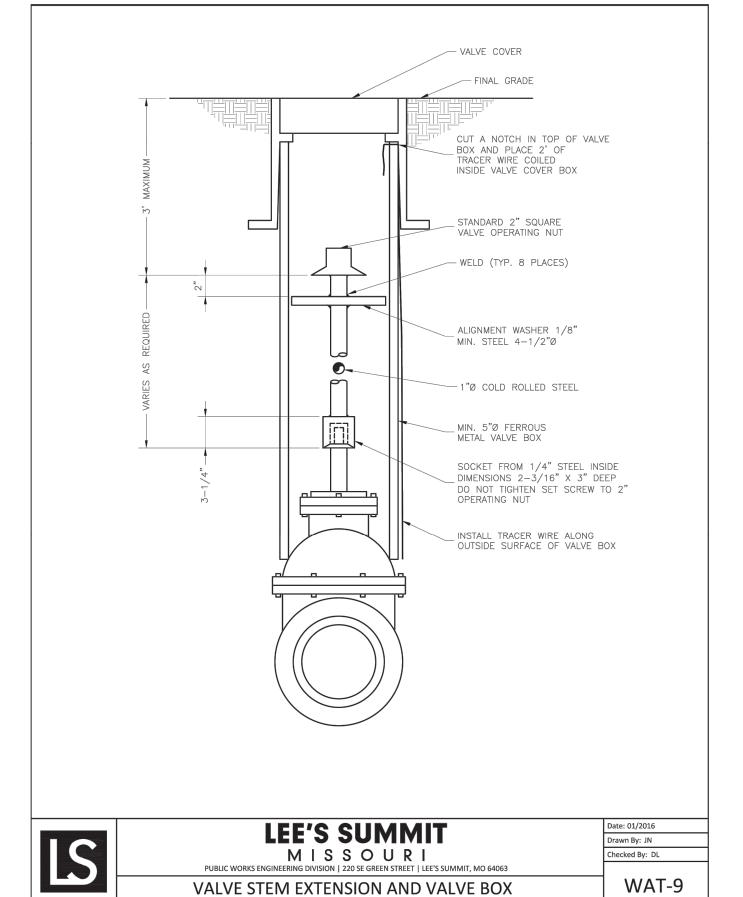
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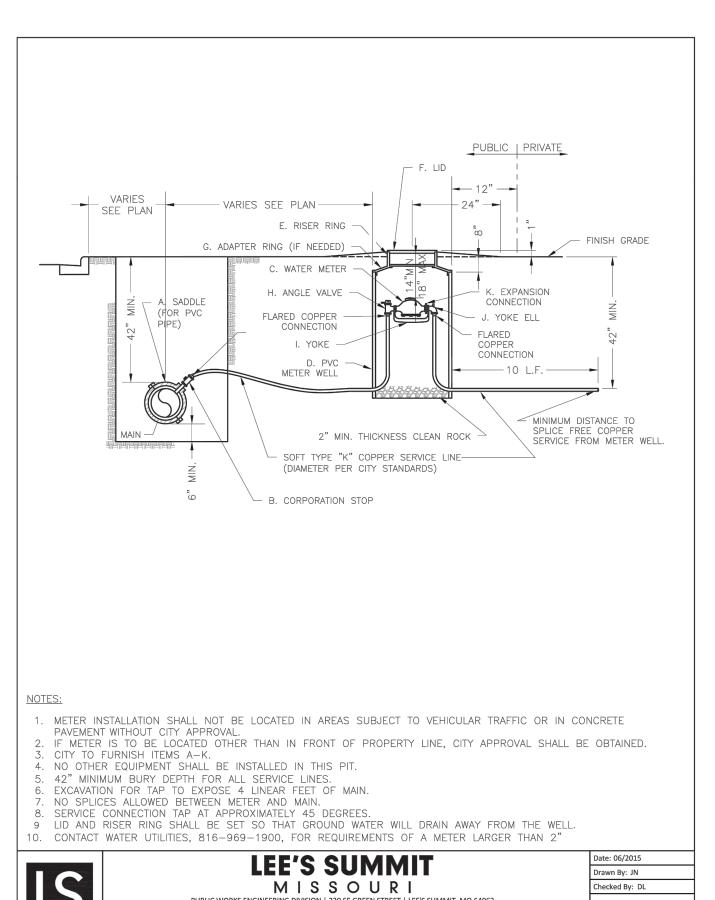
**HYDRANT - STRAIGHT SET** 

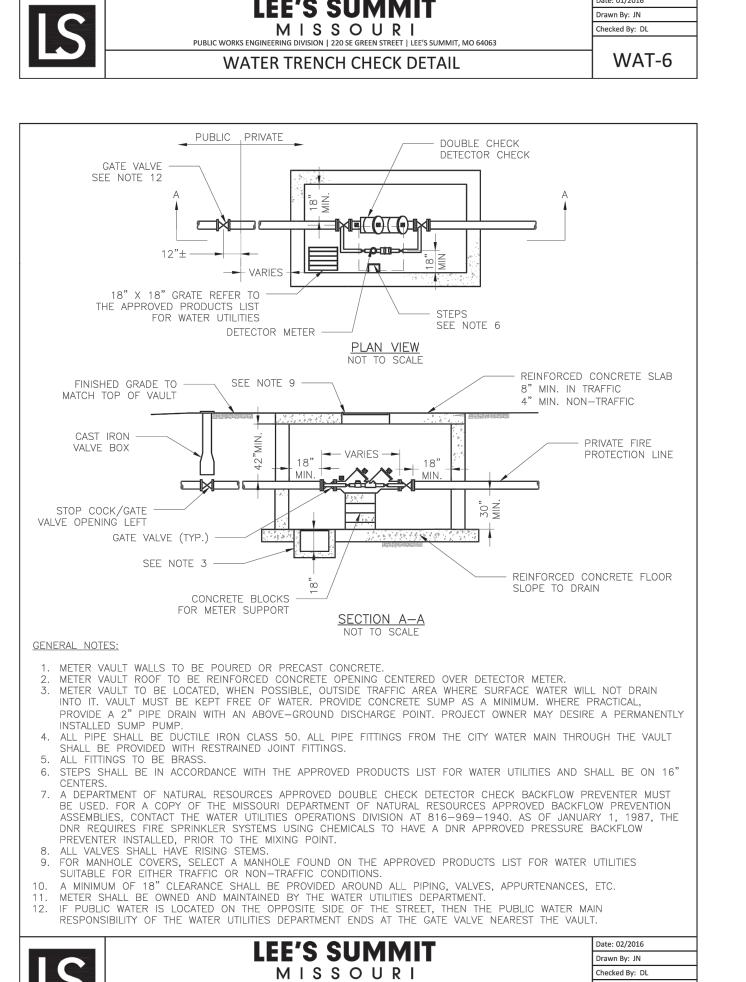
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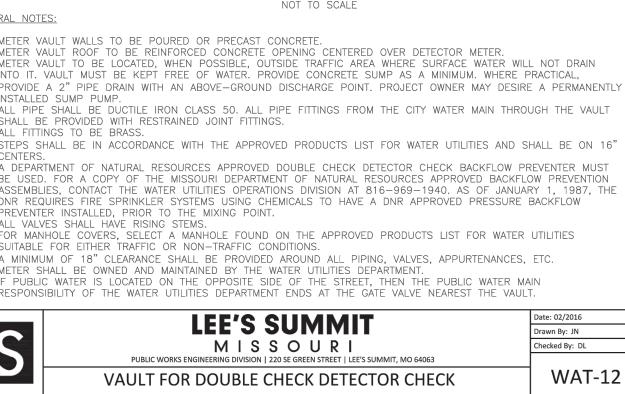
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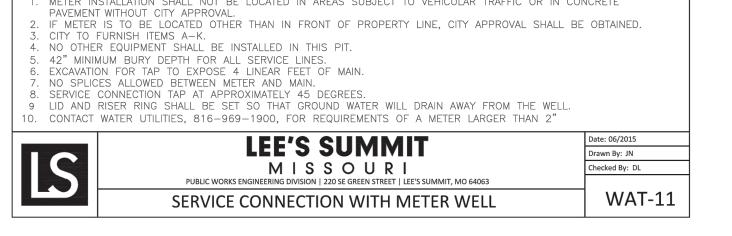
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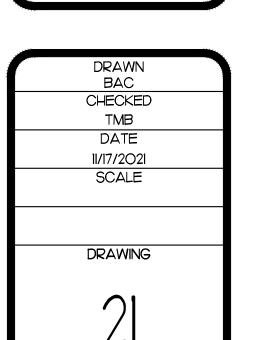












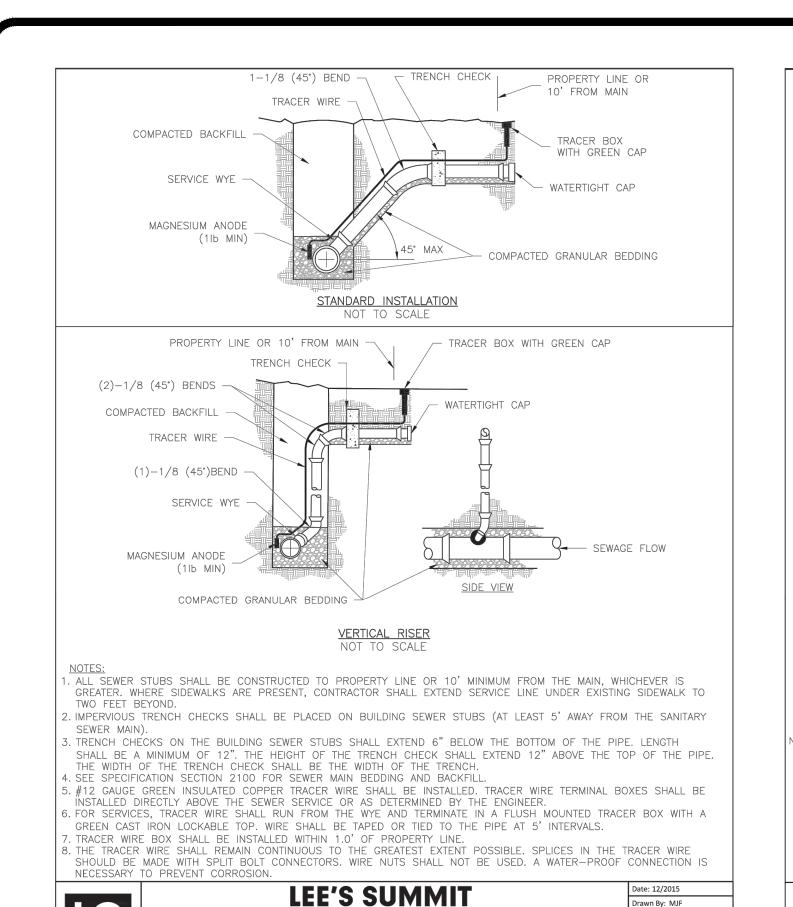
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PARKWAY
F, MO 64063
CC LEE'S SUMMIT, LI
RIDGE ROAD
I, TX 75010

CALIBER
710 SE BLU
LEE'S SUMN

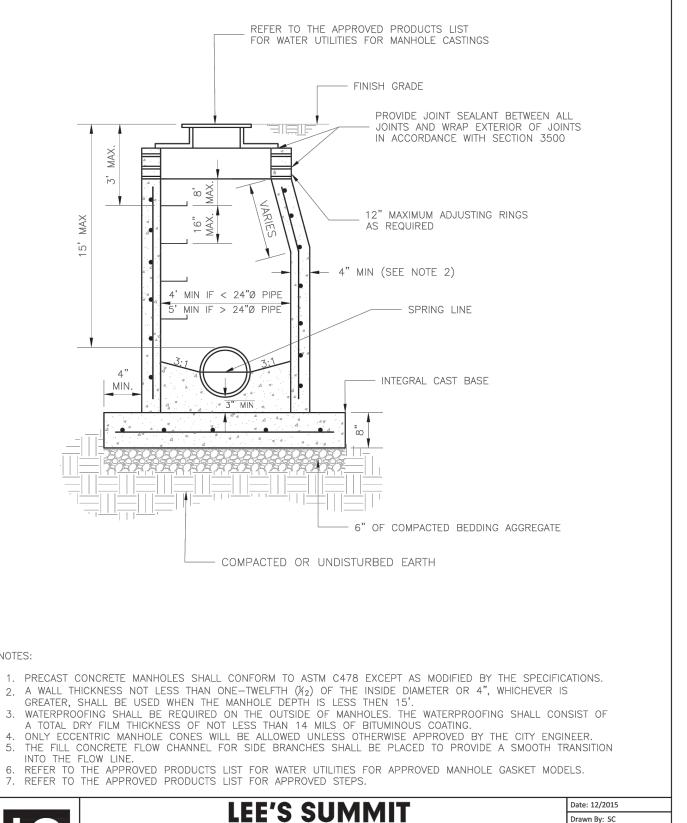
REVISIONS BY

UTILITY DETAILS



MISSOURI

SANITARY SEWER STUB DETAIL

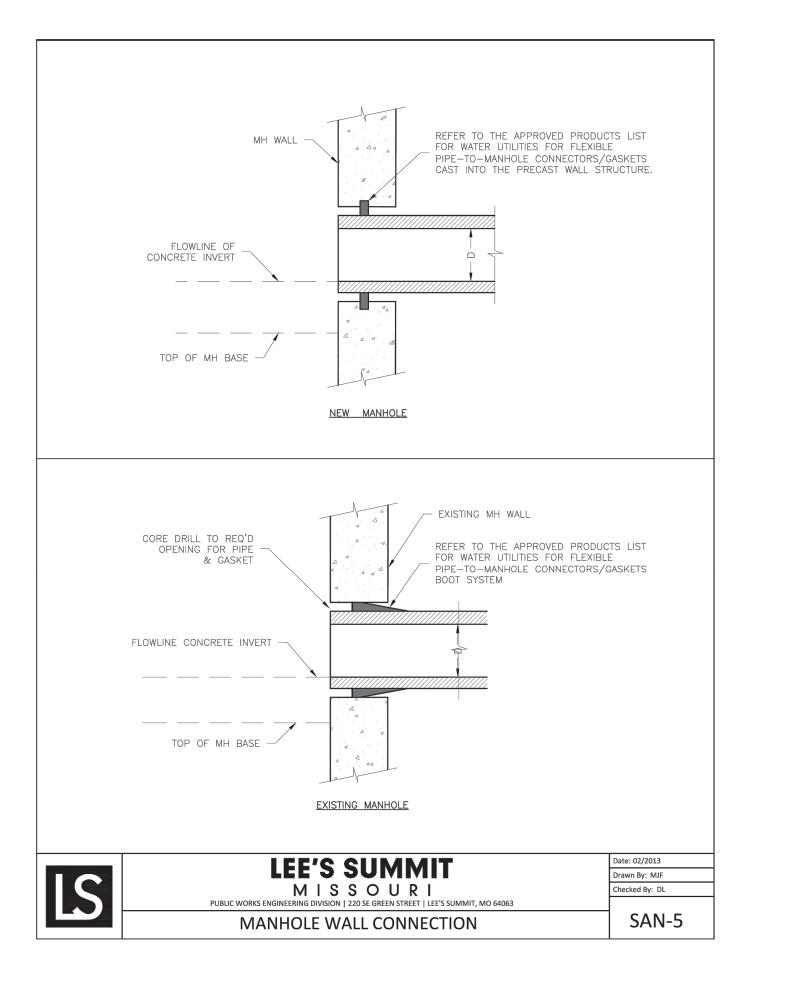


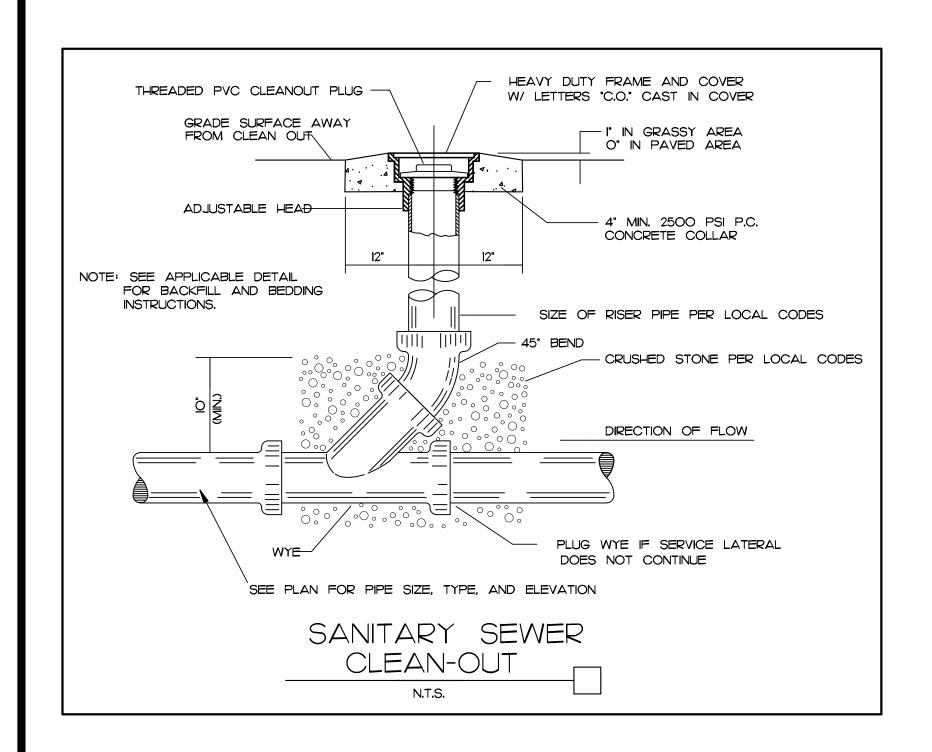
MISSOURI

STANDARD SANITARY PRECAST MANHOLE

Checked By: DL

SAN-2

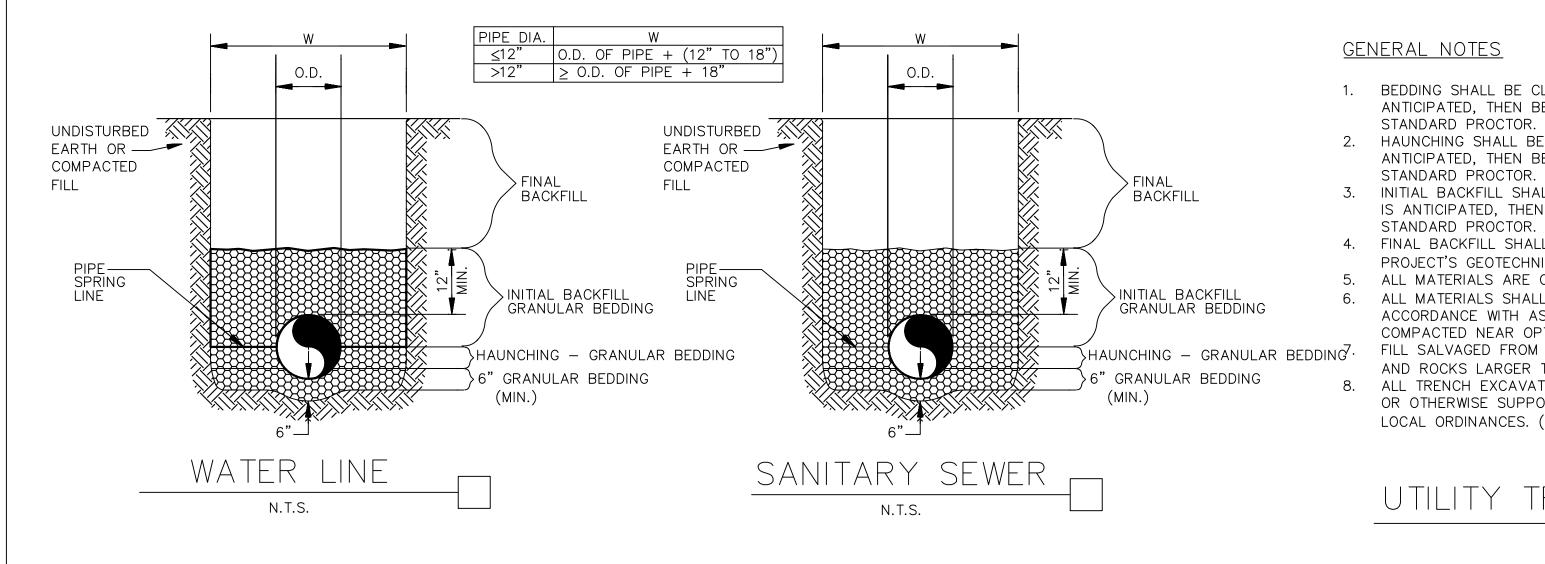




Drawn By: MJF

hecked By: DL

SAN-1



- 1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85%
- 2. HAUNCHING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85%
- 3. INITIAL BACKFILL SHALL BE CLASS I—A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85%
- 4. FINAL BACKFILL SHALL BE PER PROJECT SPECIFICATIONS AND PER THE
- PROJECT'S GEOTECHNICAL REPORT OF RECORD. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- 6. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS
- AND ROCKS LARGER THAN 3". ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND
- LOCAL ORDINANCES. (SEE SPECIFICATIONS)

UTILITY TRENCH AND BEDDING

N.T.S.

REVISIONS BY



CALIBER 710 SE BLU LEE'S SUMN

DRAWN CHECKED TMB DATE 11/17/2021 DRAWING

UTILITY DETAILS

GRASS SEED

ROCK MULCH

EVERY DIGGING JOB REQUIRES A CALL — EVEN SMALL PROJECTS LIKE PLANTING TREES OR SHRUBS. IF YOU HIT AN UNDERGROUND UTILITY LINE WHILE DIGGING, YOU CAN HARM YOURSELF OR THOSE AROUND YOU, DISRUPT SERVICE TO AN ENTIRE NEIGHBORHOOD AND POTENTIALLY BE RESPONSIBLE FOR FINES AND REPAIR COSTS.

SMART DIGGING MEANS CALLING 811 BEFORE EACH JOB. WHETHER YOU ARE A HOMEOWNER OR A PROFESSIONAL EXCAVATOR, ONE CALL TO 81 GETS YOUR UNDERGROUND UTILITY LINES MARKED FOR FREE.

PERMANENT SEEDING

8-12 LBS. PER ACRE

FESCUE GRASS (HULLED) (ALONE)

SEEDING RATE:

PLANT LIST QUANTITY SYMBOL LABELED SCIENTIFIC NAME COMMON NAME SIZE REQUIREMENTS SPACING QUERCUS 3" MIN. CALIPER, WO WILLOW OAK PHELLOS 14' MIN. HT, BEB SHOWN OCTOBER GLORY ACER RUBRUM 3" MIN. CALIPER, RM OCTOBER GLORY RED MAPLE 14' MIN. HT, BEB SHOWN CERCIS **EASTERN** 3" MIN. CALIPER, RB CANADENSIS REDBUD 12' MIN. HT, B&B SHOWN **SWEETBAY** MAGNOLIA 3" MIN. CALIPER, SBM 12' MIN. HT, B&B **VIRGINICUS** MAGNOLIA SHOWN CHIONANTHUS WHITE FRINGE 3" MIN. CALIPER, VIRGINICUS TREE 12' MIN. HT, BEB SHOWN HENCRY'S 18"-24" B&B, OR ITEA VIRGINICA GARNET VIRGINIA HVS 2-GAL CONT. HENRY'S GARNET' O.C. SWEETSPIRE SHAMROCK 24"-30" B&B, OR ILEX GLABRA 48 0 SIH DWARF INKBERR' 5-GAL CONT. SHOWN 'SHAMROCK' HOLLY 18"-24" B&B, OR CALLICARPA AMERICAN 3'-4' 12 2-GAL CONT. AMERICANA BEAUTYBERRY O.C.

SECTION 8.810 PARKING LOT LANDSCPAING

LANDSCAPE ISLANDS/ OTHER PLANTING AREAS

LOCATED WITHIN PARKING LOT SHALL CONSTITUTE

5% OF ENTIRE AREA DEVOTED TO PARKING SPACES,

AISLES & DRIVES. ISLANDS SHALL BE LOCATED AT

END OD EVERY PARKING BAY AND PLANTED WITH

ISLANDS LOCATED AT END OF EVERY PARKING BAY

1,007 SF INTERIOR PARKING LOT LANDSCAPED AREA

SECTION 8.820 SCREENING - PARKING LOT

EVERGREEN SCREENING (2.5' TALL) PROVIDED ALONG

EDGE OF PARKING LOT PARALLEL TO THE STREET

- PLANTED WITH 12 SHRUBS PER 40 LF. SHRUBS

SHALL BE AT LEAST 18" AT TIME OF PLANTING.

20' WIDE SCREEN "B" (MEDIUM) DENSITY BUFFER

EVERGREEN SHRUBS (CONTINUOUS ROW)

SECTION 8.890 BUFFER/ SCREEN

(CP2 ZONING ADJACENT TO PI ZONING)

I SHADE TREE PER 1,000 SF

135 LF X 20 LF = 2,700 SF

2,700 SF / 200 = 14 SHRUBS

I SHRUB PER 200 SF

3 SHADE TREES

6 ORNAMENTAL TREES

9 EVERGREEN TREES

14 EVERGREEN SHRUBS

I ORNAMENTAL TREE PER 500 SF

I EVERGREEN TREE PER 300 SF

2,700 SF / 1,000 = 3 SHADE TREES

2,700 SF / 500 = 6 ORNAMENTAL TREES

WEED BARRIER NOTE
PLACE BLACK COMMERCIAL GRADE

WEED BARRIER FILTER FABRIC IN ALL

COVER PLANTING AREAS. ANCHOR FABRIC WITH COMMERCIAL GRADE

LANDSCAPE FABRIC ANCHOR PINS.

LANDSCAPE TREE, SHRUB, AND GROUND

2,700 SF / 300 = 9 EVERGREEN TREES

9,985 X 0.05 = 500 SF PARKING LOT ISLANDS

- TREES

REQUIRED:

SHADE TREES.

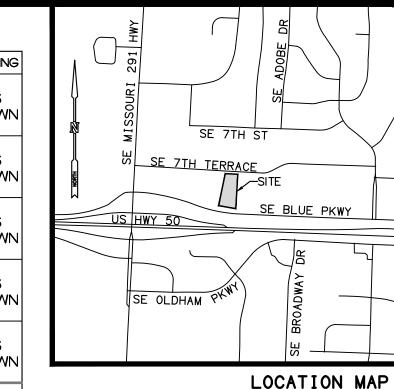
PROVIDED

REQUIRED:

<u>REQUIREMENTS</u>

JE / IH IEKKAUE REQUIRED:

PLANTED WITH TREES.



LOCATION MAP

### LANDSCAPE CALCULATIONS

#### SECTION 8.740 TREE CONSERVATION

NOT APPLICABLE. THERE ARE NO EXISTING TREES

# SECTION 8.79O.A STREET FRONTAGE

20' WIDE LANDSCAPE STRIP PLANTED WITH I TREE FOR EACH 30' OF STREET FRONTAGE AND I SHRUB FOR EACH 20' OF STREET FRONTAGE. 191 LF STREET FRONTAGE MINUS 18' DRIVEWAY = 173

173 LF / 30 LF = 6 TREES 173 LF / 20 LF = 9 SHRUBS

#### SECTION 8.790.B OPEN YARD AREA

2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA 60,209 SF/ 5,000 SF = 12 SHRUBS I TREE FOR EVERY 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS/ STRUCTURES 60,209 SF - 11,600 SF = 5 TREES (IN ADDITION TO

#### 12 SHRUBS, 5 ADDITIONAL TREES

# SECTION 8.79O.C TRASH STORAGE

A DETAILED DRAWING OF ENCLOSURE AND SCREENING METHODS TO BE USED FOR TRASH STORAGE CONTAINERS ON THE PROPERTY SHALL BE INCLUDED WITH THE LANDSCAPE PLAN

SECTION 8.800 LANDSCAPE STRIPS ALONG

ELEMENT(S) (TREES, SHRUBS, ETC.)

LANDSCAPE STRIP PLANTED WITH TREES, SHRUBS, GRASS OR GROUND COVER.

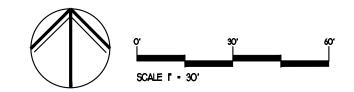
REQUIRED LANDSCAPE ISLAND IN SUCH A MANNER THAT WOULD DISPLACE THE REQUIRED

B. PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING ALL LANDSCAPING MATERIALS, INCLUDING

TURF, AND IRRIGATION MATERIALS BOTH ON SITE, AND INSIDE THE ROW.

#### LANDSCAPE NOTES

- ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN INC.
- ALL PLANTS MUST BE HEALTHY, WELL BRANCHED, STRAIGHT TRUNKED, FULL HEADED, FREE OF DISEASE AND INSECT INFESTATION, AND MEET ALL SPECIFIED REQUIREMENTS.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
- 4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED AND STAKED AS SHOWN IN THE DETAILS.
- ALL PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL PLANTING AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
- NO. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE, THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
- 12. 12. ALL PLANT BEDS, TREES, SHRUB MASSES, ETC. SHALL RECEIVE 3" OF SHREDDED HARDWOOD BARK MULCH. THIS INCLUDES A 4 FOOT DIAMETER MULCH RING AROUND ALL PROPOSED TREES,
- 13. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF UTILITY LINES IN AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
- SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- THE CONTRACTOR SHALL PERFORM A SOIL TEST ON THE EXISTING AND PROPOSED TOP SOIL AND APPLY LIME AND FERTILIZER AS RECOMMENDED.
- ALL DISTURBED AREAS NOT TO RECEIVE PLANTINGS SHALL BE TOP SOILED, LIMED, AND FERTILIZED ACCORDING TO THE SOIL TEST REPORT. THESE GRASS AREAS SHALL BE SEEDED WITH TALL TURF TYPE FESCUE SEED AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL WATER AND MAINTAIN ALL GRASS AREAS UNTIL A HEALTHY STAND IS ESTABLISHED.
- ALL PLANTING AREAS, INCLUDING PARKING LOT ISLANDS, SHALL CONTAIN SOILS SUITABLE FOR PLANTING. SOILS SHALL BE CLEAN AND FREE OF ALL CONSTRUCTION MATERIALS. THE TOP TWO FEET OF SOIL SHALL BE LOOSE. IF PREVIOUSLY COMPACTED, IT SHALL BE LOOSENED BY TILLING OR OTHER MEASURE TO A DEPTH OF TWO FEET, THE TOP SIX INCHES OF SOIL SHALL BE CLEAN TOPSOIL, OR OTHER CLEAN SOILS AMENDED WITH ORGANIC MATERIAL. THIS REQUIREMENT SHALL BE MET PRIOR TO THE INSTALLATION OF LANDSCAPING.
- 18. ITHE CONTRACTOR SHALL SPOIL ANY EXCESS TOPSOIL LOCATED ON THE SITE THAT IS NOT REQUIRED TO PERFORM THE LANDSCAPE OPERATION. ALSO, IF INSUFFICIENT TOPSOIL IS PRESENT ON THE SITE THE CONTRACTOR IS REQUIRED TO HAVE TOPSOIL BROUGHT INTO THE SITE FOR THE LANDSCAPE OPERATION.
- THE CONTRACTOR SHALL INCLUDE IN HIS BID PACKAGE REMOVAL AND EXCAVATION OF ROCK AS REQUIRED DURING TREE PLANTING TO INSURE SURVIVAL OF THE TREES AND TO PROVIDE A PLANTING PIT AS DIMENSIONED ON THE PLANTING DETAILS.
- 20. ALL LANDSCAPING FOR THE PROJECT SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. CONTRACT THE CITY OF LEE'S SUMMIT AT 816-969-1200 FOR THE SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.



LANDSCAPE PLAN



REVISIONS BY

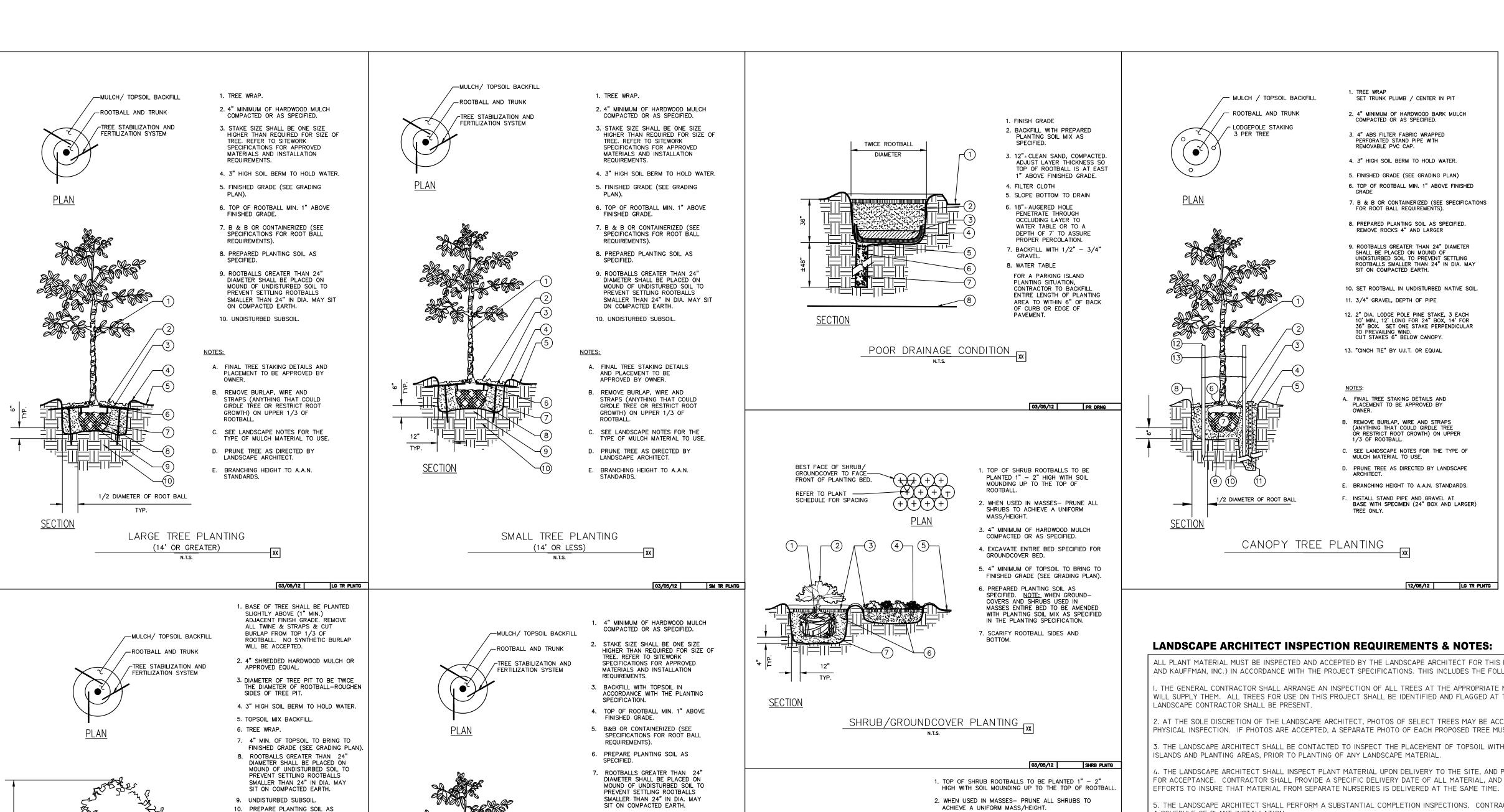
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**NOISIT** 

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DRAWN CHECKED TMB DATE 11/17/2021



BEST FACE OF SHRUB/ GROUNDCOVER TO FACE—

FRONT OF PLANTING BED.

SCHEDULE FOR SPACING

8. UNDISTURBED SUBSOIL.

10. TREE WRAP.

9. 3" HIGH SOIL BERM TO HOLD WATER.

11. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE

REMOVE BURLAP, WIRE AND

RESTRICT ROOT GROWTH) ON

THE TYPE OF MULCH MATERIAL TO USE.

UPPER 1/3 OF ROOTBALL.

C. SEE LANDSCAPE NOTES FOR

D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.

E. BRANCHING HEIGHT TO A.A.N.

TREE PLANTING ON SLOPE XX

STRAPS (ANYTHING THAT COULD GIRDLE TREE OR

SPECIFIED.

REQUIREMENTS.

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. SET TREE AT ORIGINAL DEPTH.

UPPER 1/3 OF ROOTBALL.

REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE

OR RESTRICT ROOT GROWTH) ON

SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

03/05/12

<u>SECTION</u>

PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT

E. BRANCHING HEIGHT TO A.A.N.

MULTI-TRUNK TREE PLANTING

11. STAKE SIZE SHALL BE ONE SIZE
HIGHER THAN REQUIRED FOR SIZE
OF TREE. REFER TO SITEWORK
SPECIFICATIONS FOR APPROVED
MATERIALS AND INSTALLATION
DECLINERATE.

ALL PLANT MATERIAL MUST BE INSPECTED AND ACCEPTED BY THE LANDSCAPE ARCHITECT FOR THIS PROJECT (FREELAND AND KAUFFMAN, INC.) IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THIS INCLUDES THE FOLLOWING PROCEDURE: . THE GENERAL CONTRACTOR SHALL ARRANGE AN INSPECTION OF ALL TREES AT THE APPROPRIATE NURSERY (IES) WHICH WILL SUPPLY THEM. ALL TREES FOR USE ON THIS PROJECT SHALL BE IDENTIFIED AND FLAGGED AT THE NURSERY. THE

2. AT THE SOLE DISCRETION OF THE LANDSCAPE ARCHITECT, PHOTOS OF SELECT TREES MAY BE ACCEPTED IN PLACE OF A PHYSICAL INSPECTION. IF PHOTOS ARE ACCEPTED, A SEPARATE PHOTO OF EACH PROPOSED TREE MUST BE PROVIDED.

. THE LANDSCAPE ARCHITECT SHALL BE CONTACTED TO INSPECT THE PLACEMENT OF TOPSOIL WITHIN ALL PARKING LOT

. THE LANDSCAPE ARCHITECT SHALL INSPECT PLANT MATERIAL UPON DELIVERY TO THE SITE, AND PRIOR TO PLANTING, FOR ACCEPTANCE. CONTRACTOR SHALL PROVIDE A SPECIFIC DELIVERY DATE OF ALL MATERIAL, AND SHALL MAKE

5. THE LANDSCAPE ARCHITECT SHALL PERFORM A SUBSTANTIAL COMPLETION INSPECTIONS. CONTRACTOR SHALL PROVIDE A SCHEDULE OF PLANT INSTALLATION.

5. THE LANDSCAPE ARCHITECT SHALL PERFORM A FINAL LANDSCAPE INSPECTION WITHIN 30 DAYS OF THE CONTRACTOR'S SUBSTANTIAL COMPLETION DATE. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF THE SUBSTANTIAL

BETWEEN THE LIKE SPECIES.

3. 4" MINIMUM OF HARDWOOD MULCH COMPACTED OR AS

4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER

5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE

6. PREPARED PLANTING SOIL AS SPECIFIED. <u>NOTE:</u> WHEN GROUND— COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED IN THE PLANTING SPECIFICATION.

8. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

7. SCARIFY ROOTBALL SIDES AND BOTTOM.

<u>√</u>3 4 √ 5 −

SHRUB/GROUNDCOVER PLANTING ON SLOPE

(SEE GRADING PLAN).

COMPLETION DATE. ALL REQUIRED LANDSCAPING SHALL MEET THE MINIMUM PLANTING STANDARDS AND BE MAINTAINED IN ACCORDANCE WITH SECTION 7-II-3 (F) OF THE CITY OF ASHEVILLE'S UNIFIED DEVELOPMENT ORDINANCES. A DIVERSE PLANT LIST SHALL BE PROVIDED (AS PER THIS PLAN) SO THAT NO ONE SPECIES IS OVER PLANTED AND TO ELIMINATE WIDESPREAD DISEASE

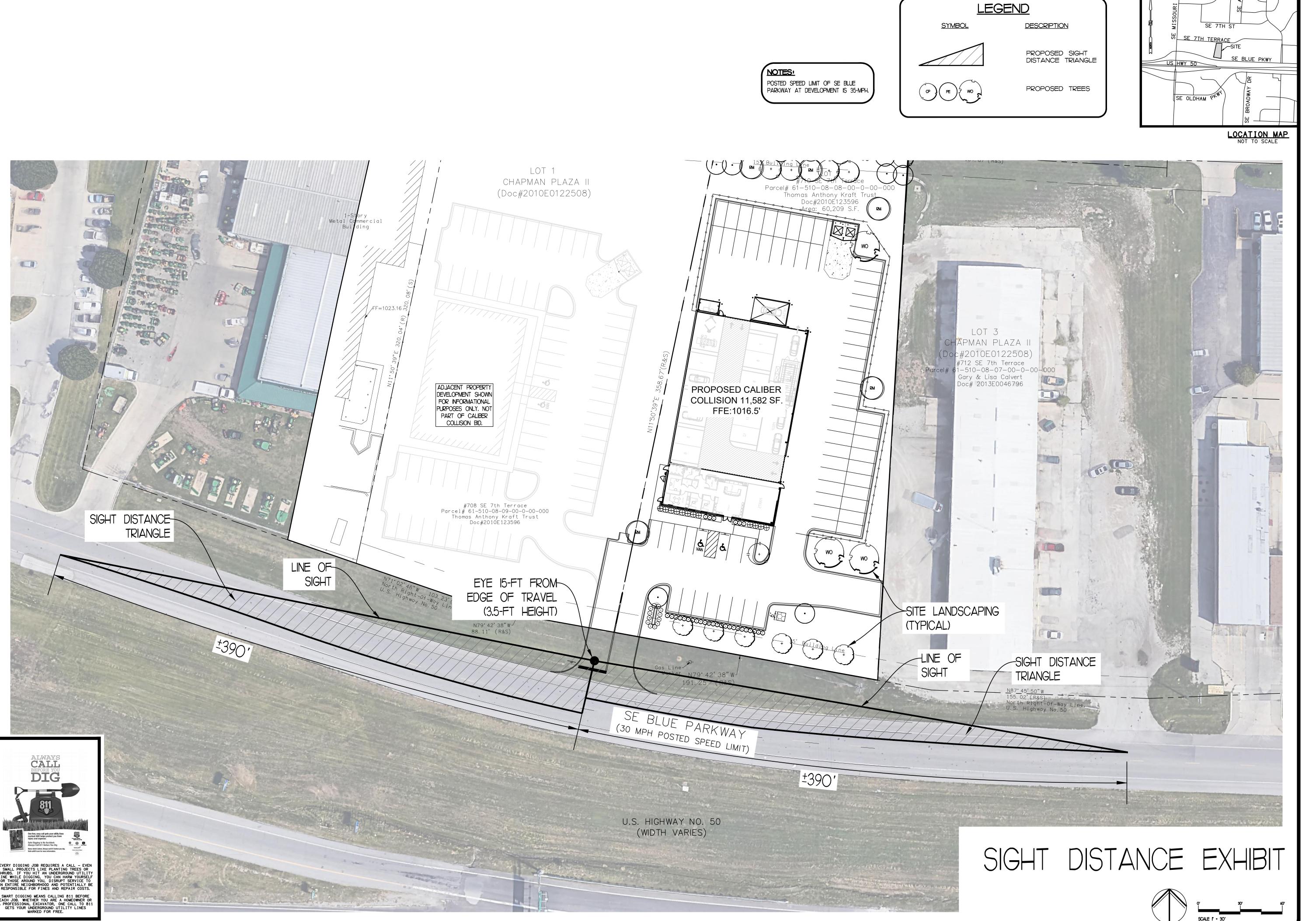
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DRAWN CHECKED TMB DATE 11/17/2021

DRAWING

LANDSCAPE DETAILS



REVISIONS BY

01/10/202

DRAWN BAC CHECKED TMB 11/17/2021 SCALE DRAWING

2934 Sidco Drive Architecture
Suite 120 Planning
Nashville, TN 37204 Interior Architecture

**CALIBER**COLLISION

LEE'S SUMMIT, MISSOURI

All measurements and items portrayed on this

sheet are deemed to be accurate by

architect, however all bidding General

Contractors should field verify the actual

conditions. Any changes to the scope of work,

and thus potential change orders, should be

identified and communicated in your price

submittal to Cross Development / Caliber

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12.10.2021

A\$1.1

Site and Trash Enclosure Details

infringement will be subject to legal action.

Job Number:

<u>Issue Date:</u>

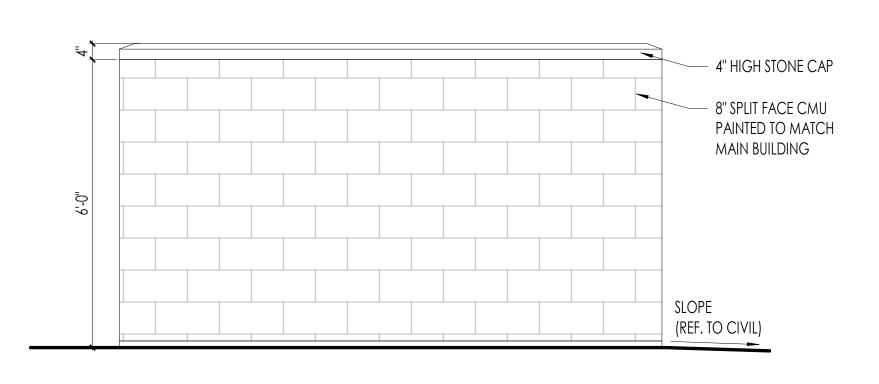
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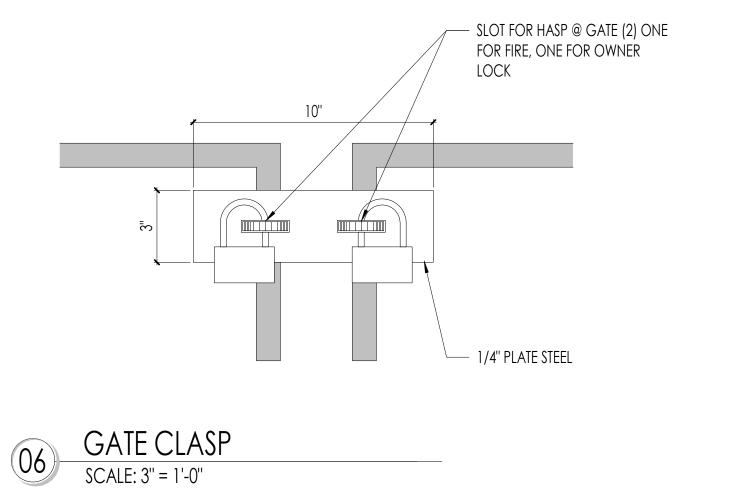
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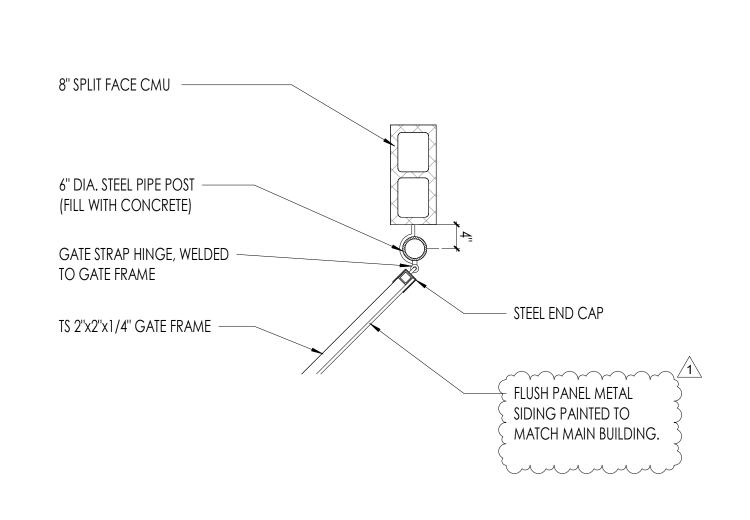
Revisions:



03 DUMPSTER ENCLOSURE SIDE ELEVATION

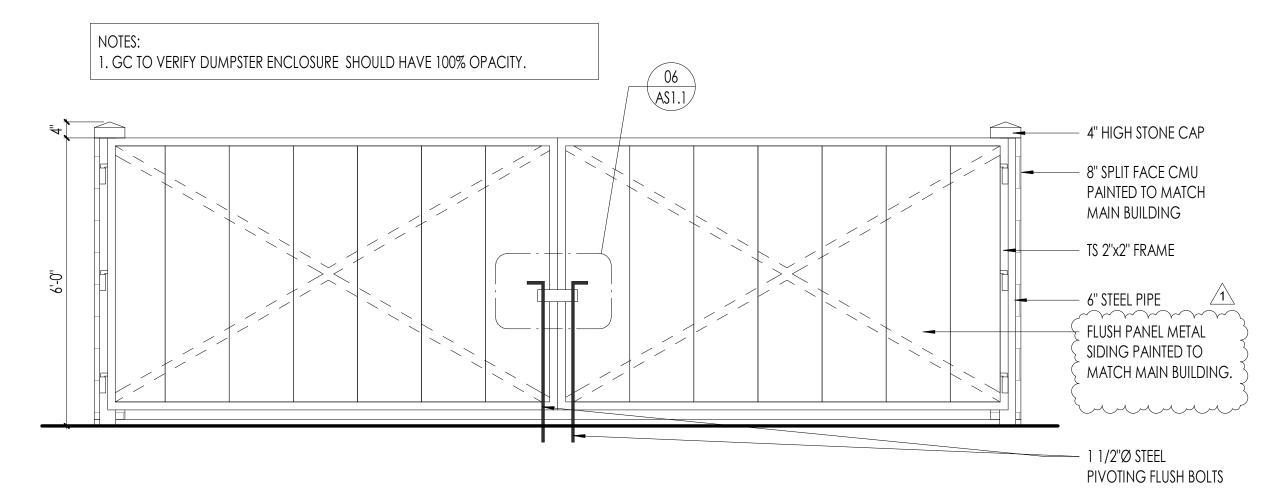
SCALE: 1/2" = 1'-0"



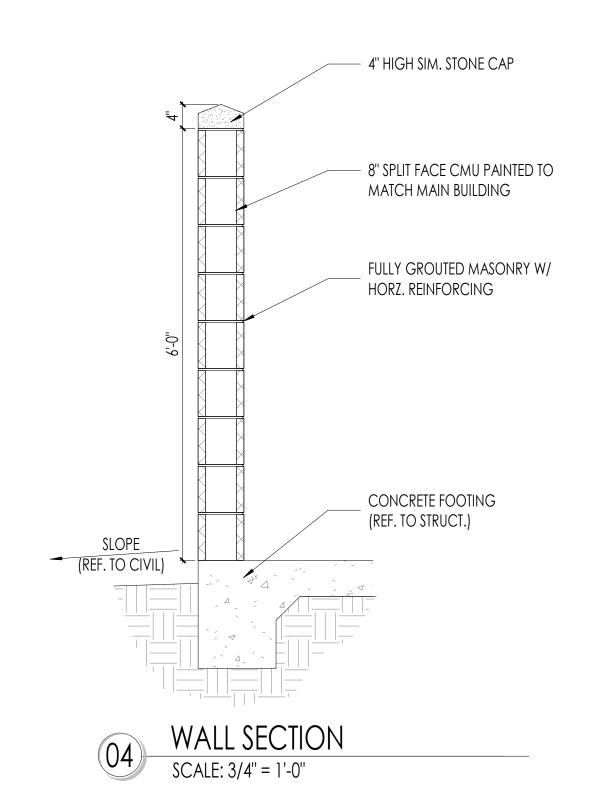


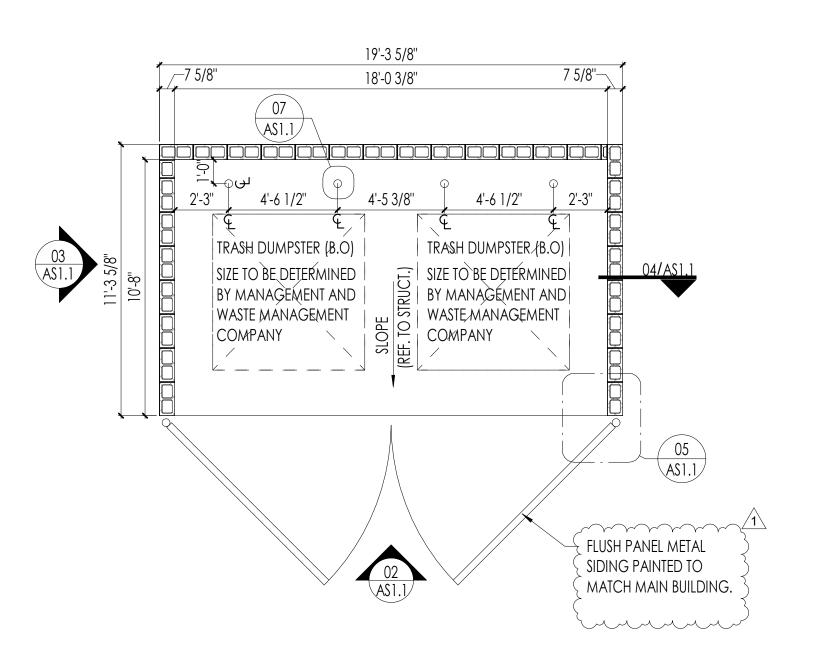
GATE DETAILS

SCALE: 3/4" = 1'-0"



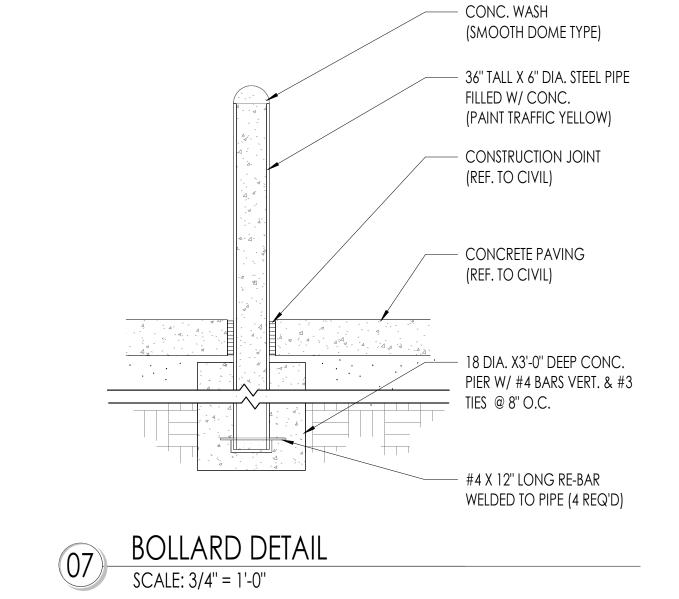
02 DUMPSTER ENCLOSURE FRONT ELEVATION
SCALE: 1/2" = 1'-0"





DUMPSTER ENCLOSURE PLAN

SCALE: 1/4" = 1'-0"





EACADE DIDECTION	EAST DIDECTION	WEST DIRECTION	NORTH DIRECTION	COULT DIDECTION
FACADE DIRECTION	EASI DIKECIION	MESI DIKECIION	NOKIN DIKECIION	SOUTH DIRECTION
METAL (PANEL, COPING, FRAMES, AND DOORS) SQ. FT.	36.39	248.69	93.27	497.7
PERCENTAGE (%)	2.80%	7.22%	4.64%	18.00%
STONE SQ. FT.	74.12	2.31	482.7	0
PERCENTAGE (%)	2.15%	0.07%	24.00%	0%
CAST STONE SQ. FT.	50.6	44.14	37.28	32.55
PERCENTAGE (%)	1.47%	1.28%	1.85%	1.18%
EIFS SQ. FT.	109.19	139.54	172.35	80.5
PERCENTAGE (%)	3.17%	4.03%	8.57%	2.91%
GLAZING SQ. FT.	0	28.61	177	65.82
PERCENTAGE (%)	0%	0.83%	8.80%	2.38%
3 STEP STUCCO SQ. FT.	618.92	13.05	1048.3	0
PERCENTAGE (%)	17.98%	0.38%	52.13%	0%
eifs (Over R-Panel) SQ. ft.	1874.16	2298.15	0	1811.91
PERCENTAGE (%)	54.46%	66.43%	0%	65.54%
CMU SQ. FT.	618.22	642.13	0	276.21
PERCENTAGE (%)	17.96%	18.56%	0%	9.99%
LOUVERS SQ. FT.	0	42	0	0
PERCENTAGE (%)	0%	1.21%	0%	0%
TOTAL SQ. FT.	3441.61	3459.62	2010.9	2764.6
TOTAL PERCENTAGE	100%	100%	100%	100%

# **KEYNOTES:**

- 401 SIGNAGE (BY OTHERS)-PROVIDE 3/4" PLYWD. BACKING (SEPARATE PERMIT).
- 402 PREMANUFACTURED MTL. AWNING W/ TIE RODS BY G.C. (CP-1)
- 403 SYNTHETIC STONE SILL/WATER TABLE. REFER TO SPECS.(CS-1)
- 404 PARAPET BACK PANEL (SOLAR WHITE COLOR).
- 405 MTL. GUTTER-PROVIDED BY MTL. BUILDING PROVIDER AND INSTALLED BY GC. (MTL-2)
- 406 STOREFRONT / GLAZING (AL-2).
- 407 ROOFLINE BEYOND.
- 408 1-1/2" EIFS OVER 1-1/2" METAL R-PANEL (EF-5). 409 PRE-FINISHED 6"x4" D (SQUARE) METAL DOWNSPOUT (BURNISHED SLATE)-PROVIDED BY
  - MTL. BUILDING SUPPLIER AND INSTALLED BY GC.
- 410 FACTORY FINISHED SECTIONAL OH DOOR (PT-3). 411 HOLLOW MTL. DOOR (PT-3) AND FRAME (SADDLE TAN). PROVIDE DRIP CAP OVER
- DOORS WITH NO OVERHEAD COVER. 412 SYNTHETIC STONE VENEER (M-1).
- 413 EXHAUST AND AIR INTAKE, REF. PAINT BOOTH SHEETS.
- 414 WALL MOUNTED LIGHT FIXTURE, REF. MEP.
- 415 PRE-FINISHED MTL. COPING (MTL-2) PROVIDED BY MTL. BUILDING SUPPLIER AND INSTALLED BY GC.
- 416 METAL BUILDING STANDING SEAM ROOFING (MTL-1).
- 417 3 STEP STUCCO INTEGRATED COLOR (PT-3).
- 418 CONTROL JOINT
- 419 WALL LOUVER, (CLEAR ANODIZED FINISH) REF. MEP
- 420 EIFS CORNICE. (PT-9). 421 EIFS ACCENT BANDING-PAINT TO MATCH SW6258 TRICORN BLACK (EF-4).
- 422 BOLLARDS.
- 423 PRE-FINISHED METAL BUILDING "R" PANEL ROOFING. (MTL-1)
- 424 SPLIT FACE C.M.U COLOR TO MATCH (PT-7) LIGHT STONE.
- 425 DASH LINE REPRESENTS ROOF TOP UNIT BEYOND.

# **CALIBER** COLLISION

**OXFORD** 

Architecture

Interior Architecture

**ARCHITECTURE** 

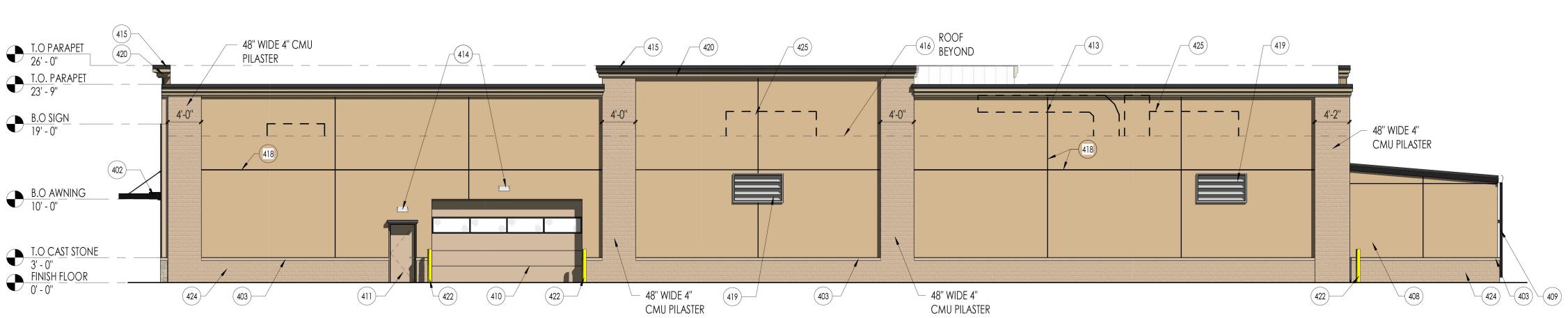
2934 Sidco Drive

Nashville, TN 37204

Suite 120

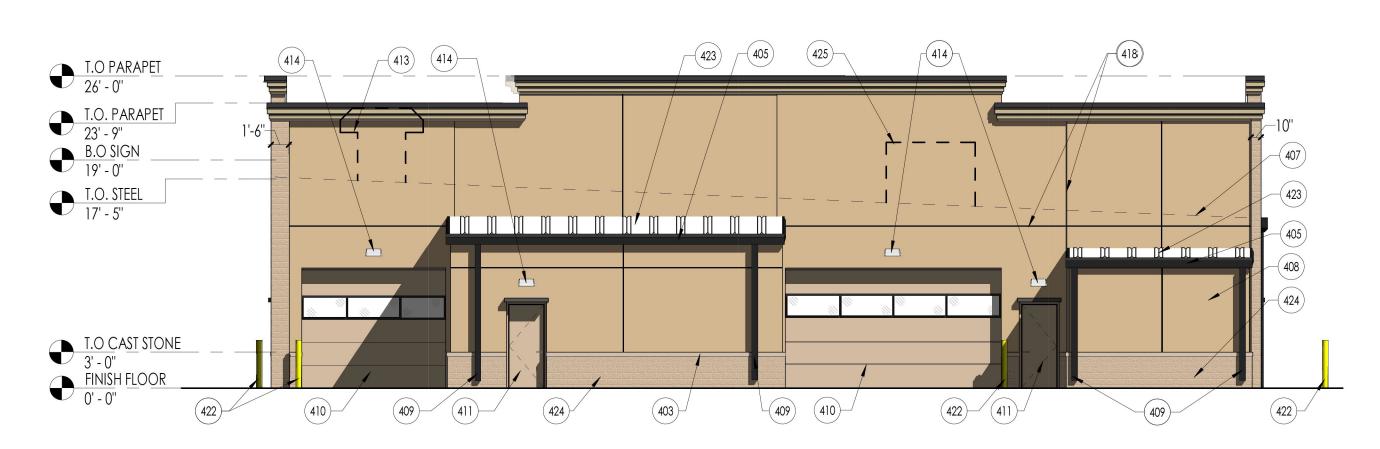
LEE'S SUMMIT, MISSOURI

T O DADADET	— 48" WIDE 4" CMU PILASTER	<b>425 413</b>	DASHED LINE REPRESENTS EXHAUST FANS BEYOND	-(415)	ROOF BEYOND	DASHED LINE REPRESENTS EXHAUST FANS BEYOND		15)
T.O PARAPET							4	20)
T.O. PARAPET 23' - 9"  B.O SIGN 19' - 0"	F -/		48" WIL 4'-0" CMU PIL	DE 4"		4'-0"	CALIBER COLLISION	7)
T.O STEEL 14' - 0"  B.O AWNING 10' - 0"	THE CONTROL OF THE CO	EQ EQ	The state of the s	EQ	EQ EQ	EQ	414	12)
T.O CAST STONE 3' - 0" FINISH FLOOR 0' - 0" 410 424 403	408 409	409 408	409	424	403	409	411 422 403	_
O2 EAST ELEVATION  SCALE: 1/8" = 1'-0"								





SCALE: 1/8" = 1'-0"



	SOUTH ELEVATION
04	SCALE: 1/8" = 1'-0"

<b>EXTER</b>	XTERIOR FINISH LEGEND									
FINISH KEY	KEY DESCRIPTION LOC		MANUFACTURER	PRODUCT COLOR	IDENTIFICATION/ FINISH/ STYLE	CONTACT				
AL-2	STOREFRONT SYSTEM	OFFICE EXTERIOR	KAWNEER OR APPROVED EQUAL	DARK ANODIZED BRONZE	2" X 4-1/2" ALUMINUM FRAME	N/A				
CS-1	CAST STONE (REF. ELEV)	OFFICE EXTERIOR	CORONADO STONE/ EL DORADO STONE	CORONADO- OFF WHITE EL DORADO- BUCKSKIN	REFER TO SPECS-047300	N/A-SAMPLE TO BE PROVIDED BY GC				
CP-1	CUSTOM CANOPY	LOBBY ENTRANCE	ARCHITECTURAL FABRICATORS	DARK BRONZE	HELIOS 399 X 446	ARCH. FABRICATORS 1-800-962-8027				
EF-4	4 EXTERIOR BANDING -		SHERWIN WILLIAMS	TRICORN BLACK	-	BRETT C. HUCKLEBURY 214-728-6696				
EF-5	E.I.F.S	SHOP EXTERIOR	-	COLOR TO MATCH SADDLE TAN	1-1/2" E.I.F.S OVER 1-1/2" R-PANEL	-				
GR-2	EXTERIOR MASONRY MORTAR	-	SGS-SOLOMON COLORS INC.	10X BUFF	TYPE S MORTAR	BART SNOWDEN 214-794-9159				
M-1	EXTERIOR MASONRY - GC TO PROVI		GC TO PROVIDE LOCAL ALTERNATE OR APPROVAL	CORONADO- TEXAS CREAM EL DORADO- AUSTIN CREAM	CORONADO STONE/ EL DORADO STONE REFER TO SPECS-047300	N/A				
PT-3	EXTERIOR DOOR PAINT	-	SHERWIN WILLIAMS	NOMADIC DESERT	SW 6107	BRETT C. HUCKLEBURY 214-728-6696				
PT-7	EXTERIOR FINISH	-	SHERWIN WILLIAMS	NOMADIC DESERT	SW 6107	BRETT C. HUCKLEBURY 214-728-6696				
PT-9	EXTERIOR CORNICE	-	DRYVIT	BAVARIAN WOOD #448	SAND PEBBLE	N/A				
MTL-1	MTL. ROOFING	SHOP ROOF	METL-SPAN	SOLAR WHITE	PREM. WEATHER XL E0.85 SRI:76	METL-SPAN 877-585-9969				
MTL-2	RAKE, GUTTER, TRIM	EXTERIOR	METL-SPAN	BURNISHED SLATE	PREM. WEATHER XL E:0.86 SRI:25	METL-SPAN 877-585-9969				

# SENERAL NOTE

- DOWNSPOUTS ARE INDICATED FOR SIZE, QUANTITY, AND APPROXIMATE LOCATION ONLY.
- HOLLOW METAL STEEL DOORS, FRAMES, EXPOSED METAL FLASHING AND EXPOSED MISCELLANEOUS STEEL SHALL MATCH ADJACENT BUILDING COLOR UNLESS NOTED OTHERWISE. IF THERE ARE TWO ADJACENT COLORS AT THE DOOR LOCATIONS CONTRACTOR TO USE THE BASE OF THE BOTTOM FINISH FOR THE ENTIRE DOOR.
- SIGNAGE SHALL BE PERMITTED SEPARATELY.
- REFER TO THIS SHEET FOR FINISHES AND MATERIALS.
- PAINT EXPOSED STEEL BEAMS IN STORAGE AREA.
- THE LIGHT SOURCE FOR EXTERIOR FIXTURES SHALL NOT PROJECT BELOW THE OPAQUE HOUSING SELECTED. NO FIXTURE SHALL DIRECTLY PROJECT LIGHT HORIZONTALLY.

Revisions: Exterior Elevations (Colored)

Job Number:

Issue Date:

Revisions:

Revisions:

Revisions:

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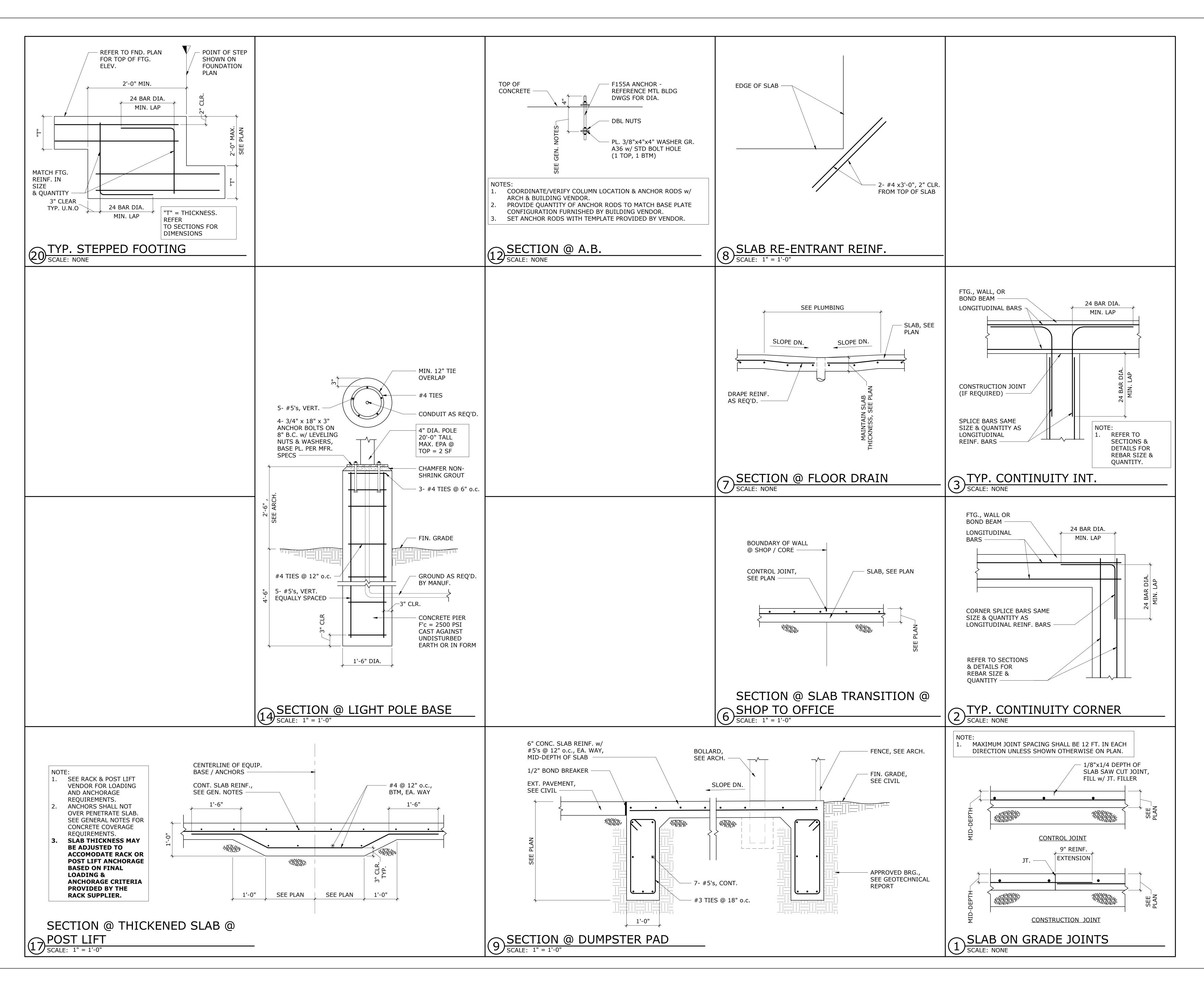
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TBD





Interior Architecture

2934 Sidco Drive Suite 120 Nashville, TN 37204



# **CALIBER**COLLISION

LEES SUMMIT, MISSOURI

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Job Number:2116Date:12.10.2021Revisions:\( \triangle \)Revisions:\( \triangle \)Revisions:\( \triangle \)FOUNDATION DETAILS

Sheet Number:

<u>\$2.0</u>

WE-21129

	CALIBER COLLISION LEES SUMMIT MO SITE LAYOUT	

Designer
MT
Date
07/12/2021
Scale
Not to Scale
Drawing No.
Summary

Schedul	e								
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	A	5	EATON - McGRAW- EDISON (FORMER COOPER LIGHTING)	GLEON-AF-03-LED-E1- SL4-HSS	GALLEON AREA AND ROADWAY LUMINAIRE (3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD	48	314	1	166
	В	4	COOPER LIGHTING SOLUTIONS - McGRAW- EDISON (FORMERLY EATON)	IST-SA1A-740-U-SL2	IMPACT ELITE LED TRAPEZOID LUMINAIRE (1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS	16	171	1	20.1
	С	2	COOPER LIGHTING SOLUTIONS - McGRAW- EDISON (FORMERLY EATON)	IST-SA1D-740-U-SL4	IMPACT ELITE LED TRAPEZOID LUMINAIRE (1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS	16	345	1	45.2
	D	4	EATON - McGRAW- EDISON (FORMER COOPER LIGHTING)	GLEON-AF-02-LED-E1- 5WQ	GALLEON AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS	32	410	1	113

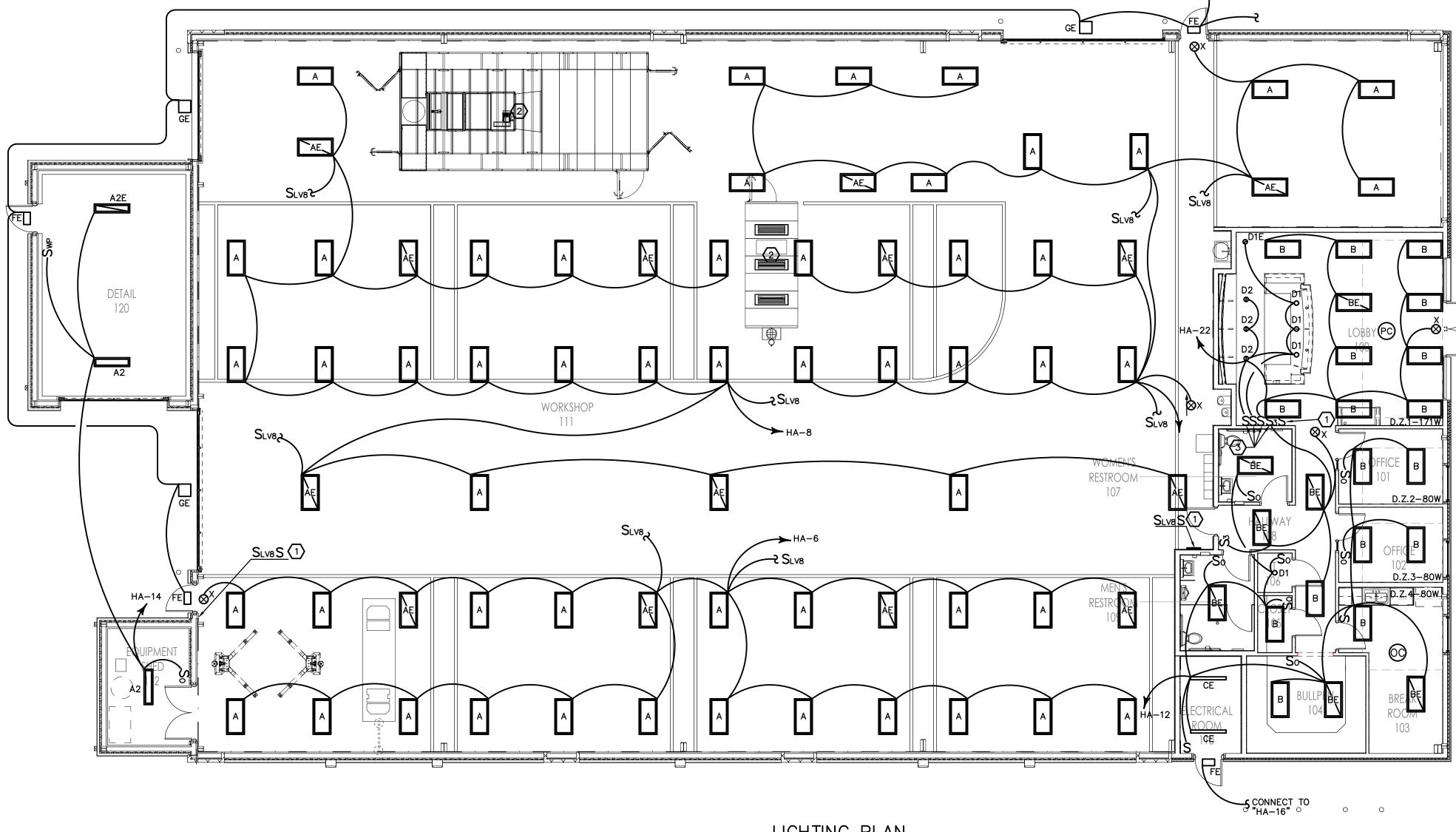
Statistics										
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min				
SITE	+	1.1 fc	5.7 fc	0.0 fc	N/A	N/A				
100' BEYOND PROP LINE	+	0.0 fc	0.8 fc	0.0 fc	N/A	N/A				



Plan View
Scale - 1'' = 35ft

8 BUTTON DIGITAL SWITCH DETAIL (SLV8) NO SCALE NOTE: SWITCH SHALL CONTROL CIRCUITS SHOWN VIA LIGHTING CONTROL PANEL BY LEVITON

#RDGSW-8CW



# GENERAL LIGHTING NOTES

1. ALL CIRCUITS ARE FED FROM PANEL 'H1' U.N.O. ROUTE ALL CIRCUITS THROUGH RELAY BASED LIGHTING CONTROL PANEL FOR PHOTOCELL/TIME OF DAY CONTROL. PROVIDE LIGHTING CONTROL PANEL OVERRIDE SWITCHES PER PLAN. 2. PRIOR TO ROUGH-IN, VERIFY MOUNTING HEIGHTS AND ELECTRICAL REQUIREMENTS WITH OWNER AND ARCHITECTURAL DETAILS. HEIGHT OF ALL SWITCHES, PULLS, AND CONTROLS SHALL BE ACCESSIBLE PER A.D.A., MAXIMUM 48" AFF TO TOP OF OPERATION. 3. FINISH COLOR ON ALL OUTLET AND SWITCH FACEPLATES SHALL BE WHITE. VERIFY AND COORDINATE FINAL COLOR WITH OWNER. 4. CIRCUIT ALL EXIT SIGNS "X" TO LOCAL LIGHTING CIRCUIT. CIRCUIT ALL EXIT

SIGNS, EMERGENCY FIXTURES, AND UNSWITCHED NIGHT LIGHTS AHEAD OF ALL SWITCHES 5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHTING DIMENSIONS PERTAINING TO LOCATIONS, HEIGHT, MOUNTING HEIGHTS, ETC. CONTRACTOR SHALL VERIFY LIGHTING

IN THE SHOP BAY AREA TO BE MOUNTED AT 12'. 6. ALL ELECTRICAL DEVICES TO BE A MINIMUM OF 36" AWAY FROM PAINT BOOTH DOORS.

OF AREA THAT SHALL REMAIN FREE OF ANY SPARKING DEVICES. ANY ELECTRICAL DEVICES

OR APPURTENANCES LOCATED WITHIN 36" OF BOOTH SHALL MEET NEC INSTALLATION REQUIREMENTS FOR CLASS 1, DIVISION 2 HAZARDOUS LOCATIONS. 7. CONTRACTOR TO INSTALL OCCUPANCY / VACANCY SENSOR SWITCH ( ) AS SHOWN. PROVIDE ACUITY #WSX-PDT-SA OR EQUIVALENT. COORDINATE FINISH WITH OWNER.

CONTRACTOR TO REFER TO "PAINT BOOTH SPECIFICATIONS" FOR EXACT LOCATIONS

8. CONTRACTOR TO INSTALL OCCUPANCY / VACANCY SENSOR ( ) AS SHOWN. PROVIDE ACUITY #CM-PDT SERIES OR EQUIVALENT. COORDINATE FINISH WITH OWNER. LOCATIONS SHOWN ARE APPROXIMATE. REFERENCE INSTALLATION MANUAL FOR OPTIMUM PLACEMENT OF SENSORS. PROVIDE LOW-VOLTAGE SWITCH FOR MANUAL-ON OPERATION, ACUITY #SPODM-SA OR EQUIVALENT. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACUITY SENSOR SWITCH. DIGITAL SERIES: ACUITY NLIGHT OR EQUIVALENT.

9. CONTRACTOR TO INSTALL CEILING MOUNTED DAYLIGHT SENSOR ( ) AS SHOWN. INSTALL ACUITY #CM-ADC-VLP SERIES. COORDINATE FINISH WITH ARCHITECT. LOCATIONS SHOWN ARE APPROXIMATE. REFERENCE INSTALLATION MANUAL FOR OPTIMUM PLACEMENT OF SENSORS. ALL LIGHTS INDICATED IN THE DAY-LIGHT ZONE TO BE 0-10V DIMMABLE AND CONTROLLED BY PHOTOCELL IN ZONE. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACUITY SENSOR SWITCH. DIGITAL SERIES: ACUITY NLIGHT OR EQUIVALENT.

10. AT ALL LOCATIONS WHERE CEILING OCCUPANCY / VACANCY SENSORS ARE SHOWN TO BE USED IN CONJUNCTION WITH DIMMING, CONTRACTOR TO PROVIDE DIMMING POWER-PACKS AS REQUIRED WITH DIMMING ZONE OR PRESET STATIONS. MULTI-BUTTONS MAY BE USED AS INDICATED ON PLAN. BOTH ANALOG AND DIGITAL SYSTEMS ARE ACCEPTABLE. ANALOG SERIES: ACUITY SENSOR SWITCH. DIGITAL SERIES: ACUITY NLIGHT OR EQUIVALENT.

11. D.Z.(#) = DAYLIGHT ZONE (#). ALL DAYLIGHT ZONES ARE EXEMPT DUE TO BEING LESS THAN 150 WATTS IN EACH EXCEPT FOR DAYLIGHT ZONE #1. PROVIDE DAYLIGHT HARVESTING PER IECC. 12. LOWER CASE LETTER 'X' BY CIRCUIT DESIGNATION INDICATES CORRESPONDING

LIGHT SWITCH. 13. ELECTRICAL CONTRACTOR TO REFERENCE ARCH PLANS FOR LIGHTING DIMENSION CONTROL PLAN FOR LIGHT LOCATIONS.

14. THE WIRING OF THE HVAC. FIRE ALARM, SECURITY, AND EMERGENCY COMMUNICATIONS AND SIGNALING SYSTEMS ARE REQUIRED THAT ALL CABLES USED FOR EMERGENCY COMMUNICATIONS HAVE A 2-HOUR FIRE-RESISTIVE RATING AND BE RATED FOR USE IN

15. NO CONDUITS ROUTED THROUGH SHOP FLOOR UNLESS SPECIFICALLY NOTED OTHERWISE. 16. NO EXPOSED MC CABLE ALLOWED EXCEPT FOR APPROXIMATLEY 6' MAXIMUM AT LIGHT FIXTURE CONNECTIONS. THERE SHALL BE NO LONG RUNS OF MC CABLE. 17. ALL CONDUITS SHALL BE INSTALLED AS TIGHT TO DECK AS POSSIBLE. MAINTAIN 1-1/2" SEPARATION FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE RACEWAY, BOX, ETC. IN ACCORDANCE WITH NEC 300.4(E).

18. NOTHING IN THE SHOP AREAS SHALL BE MOUNTED BELOW 12'-0" AFF, UNLESS SPECIFICALLY NOTED AS SUCH. ALL PIPES, CONDUITS AND LINES SHALL BE RUN NEAT AND AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. ROUTE CONDUIT WITHIN GIRTS WHEREVER POSSIBLE.

19. DO NOT DAISY CHAIN LIGHTING IN SHOP.

# 

AND/OR DIFFERENT VOLTAGES.

TO TURN THE LIGHTS OFF.

1. 2-HOUR MAXIMUM OVERRIDE SWITCH FOR LIGHTING CONTROL PANEL. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN. SWITCH SHALL BE LEVITON GREENMAX

2. LIGHTING UNITS IN PAINT BOOTH WILL BE PROVIDED BY MANUFACTURER.

3. SWITCH SHALL BE A 4-BUTTON DIGITAL SWITCH: LEVITON GREENMAX #RDGSW-4CW.

# LIGHTING CONTROL NOTES

1. BUILDING SHALL HAVE A LIGHTING CONTROL SYSTEM CAPABLE OF TURNING OFF ALL BUILDING LIGHTS AUTOMATICALLY AFTERHOURS. 2. AFTERHOURS LIGHTING SYSTEM SHALL INITIATE AUTOMATIC SHUTDOWN EVERY THREE HOURS.

3. SPACES WITH INDIVIDUAL OCCUPANCY SENSORS AND AUTOMATIC SHUTOFF WILL NOT BE CONTROLLED BY LIGHTING CONTROL PANEL. 4. SPACES WITH OCCUPANCY SENSORS AND LOCAL LIGHTING CONTROL WILL BE WIRED WITH OCCUPANCY SENSOR AHEAD OF LOCAL LIGHTING

CONTROL. PROVIDE ADDITIONAL RELAYS FOR SEPERATE CIRCUITS

5. LIGHTING CONTROL SYSTEM SHALL ALSO CONTROL EXTERIOR LIGHTING AND SIGN CIRCUITS.

. PROVIDE COMMISSIONING AND FUNCTIONAL TESTING IN ACCORDANCE WITH THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE. COMMISIONING AND TESTING TO BE PERFORMED BY MANUFACTURER REPRESENTATIVE. PROVIDE WRITTEN CERTIFICATION TO OWNER UPON COMPLETION OF COMMISSIONING.

DURING TESTING THE FOLLOWING PROCEDURES SHALL BE PERFORMED. A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY SENSORS YIELD ACCEPTABLE PERFORMANCE. B. CONFIRM THAT THE PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED

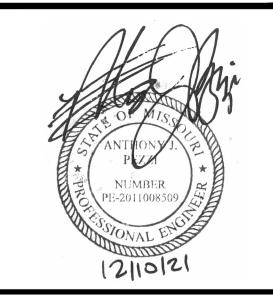
C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED ABOVE.

LIGHTING PLAN SCALE: 1/8" = 1'-0"

ARCHITECTURE

Interior Architecture

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# **COLLISION**

LEES SUMMIT, MISSOURI

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Sheet Name

Revisions: Revisions: Revisions: Revisions: LIGHTING PLAN

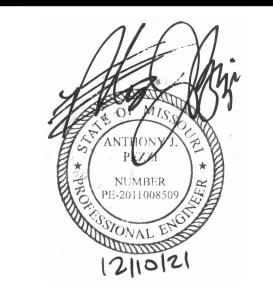
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LICENSE NUMBER: PE-2011008509

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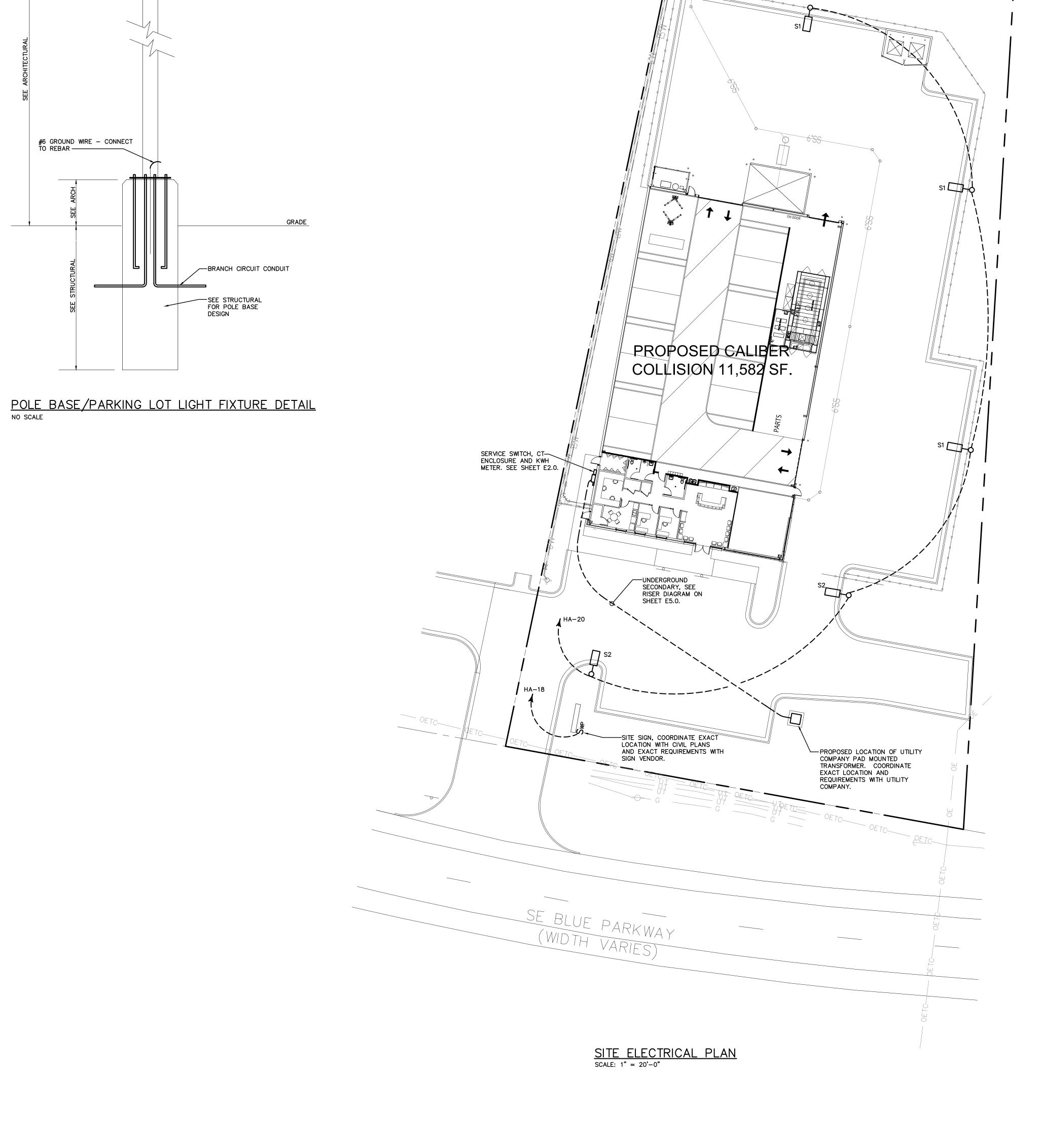


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FOR HEATED ENCLOSURES, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH CIVIL PLANS.

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12.10.2021 Revisions:

ELECTRICAL PLAN

ES1.00

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ANTHONY PEZZI, ELECTRICAL ENGINEER LICENSE NUMBER: PE-2011008509

#6 GROUND WIRE — CONNECT TO REBAR

BRANCH CIRCUIT CONDUIT

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