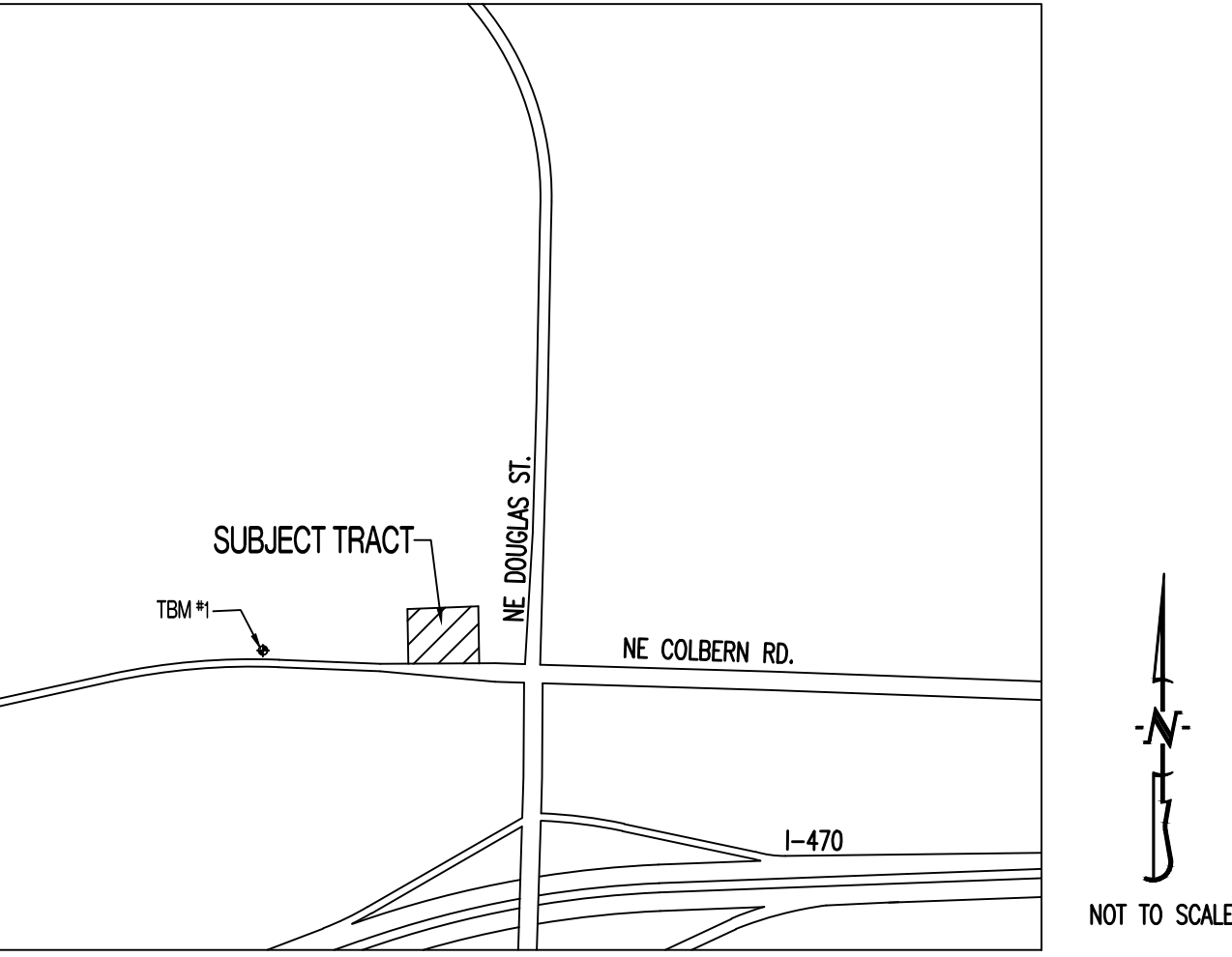


THE VILLAGE AT DISCOVERY PARK

LOT 3

LOCATION MAP



GENERAL NOTES:

ALL STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT "DESIGN AND CONSTRUCTION MANUAL" (CURRENT EDITION).

ANY CITY DETAILS SHOWN ON THIS SET OF PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO HAVE A COPY OF THE CITY'S LATEST EDITION OF SPECIFICATIONS AND STANDARDS FOR ALL STREET, STORM, AND SANITARY CONSTRUCTION ON SITE AT ALL TIMES DURING CONSTRUCTION. REFER TO <https://cityoflls.net/development-services/design/design-criteria/design-construction-manual-infrastructure>

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL CONCRETE MATERIALS SHALL CONFORM TO KCMMB STANDARDS AND SPECIFICATIONS.

THIS PLAT CONTAINS APPROXIMATELY 1.88 ACRES.

THIS TRACT IS ZONED PMIX.

THE STORM SEWER NETWORK DESIGN FOR THIS PROJECT IS BASED ON OPEN CHANNEL FLOW; THEREFORE THE HYDRAULIC GRADE LINE IS AT OR LESS THAN THE CROWN OF THE PIPE.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS NOT BEEN PERFORMED BY THIS ENGINEER. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

ALL LAND DISTURBANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT CODE OF ORDINANCES. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR NARRATIVE REPORT AND BMP DESCRIPTIONS AND DETAILS.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MO DNR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL HDPE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

IN ORDER TO TERMINATE A STATE OPERATING PERMIT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) REQUIRES THAT THE PERMITEE SUBMIT A COMPLETED FORM H (INCLUDED WITH THE APPROVAL PERMIT) TO THE MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHALL BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA. A COPY OF FORM H SHOULD BE SUBMITTED TO THE CITY AT WHICH TIME THE CITY WILL REMOVE THE PROJECT FROM ITS INSPECTION SCHEDULE.

LAND DISTURBANCE SITES SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 48 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN A 2-YEAR, 24-HOUR STORM HAS CEASED DURING A NORMAL WORK DAY OR WITHIN 72 HOURS IF THE RAIN EVENT CEASES DURING A NON-WORK DAY SUCH AS A WEEKEND OR HOLIDAY. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT. CONTRACTORS ARE REQUIRED TO SUBMIT TO CITY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON A MONTHLY BASIS IF REQUESTED.

NO OIL AND GAS WELLS EXIST ON THIS TRACT ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES OIL AND GAS PERMIT DATABASE.

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

TOTAL DISTURBED AREA ON SITE = 2.11 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NUMBER MORA23630.

PROJECT BENCHMARK:

TBM #1 - CONTROL POINT #50 SET BY OLSSON. 1/2" IMBEDDED CAP ON NORTH SIDE OF NW COLBERN RD. LOCATED AT 1ST FIELD ENTRANCE.
 NORTHING = 1012389.819
 EASTING = 2822108.784
 ELEVATION = 990.810
 REFER TO "PRIVATE SITE DEVELOPMENT PLANS FOR THE VILLAGE AT DISCOVERY PARK ZONE 1" PLANS BY OLSSON DATED 10/18/2023 FOR MORE INFORMATION.

FLOOD PLAIN STATEMENT:

THIS LOT IS LOCATED IN ZONE X UNSHADOW - AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD AS SHOWN ON THE FEMA F.I.R.M. PANEL #29095004096, DATED JANUARY 20, 2017.

LEGAL DESCRIPTION:

VILLAGE AT DISCOVERY PARK, LOT 3. A SUBDIVISION IN JACKSON COUNTY, LEE'S SUMMIT, MISSOURI.

UTILITY COMPANIES:

LOCATES:
 MISSOURI ONE CALL INC.
 1022 B NORTHEAST DRIVE
 JEFFERSON CITY, MO 65109
 1-800-344-7483

ELECTRIC:
 EVERGY
 816-524-3223

TELEPHONE:
 AT&T
 800-286-8313

WATER/SANITARY SEWER:
 CITY OF LEE'S SUMMIT
 WATER UTILITIES DEPARTMENT
 1200 S HAMBLEN RD
 LEE'S SUMMIT, MO 64081
 816-969-1900

NATURAL GAS:
 SPIRE
 314-342-0500

FIBER:
 GOOGLE FIBER
 877-454-6959

CABLE TELEVISION:
 SPECTRUM
 877-772-2253

DEVELOPER:

DISCOVERY PARK LEE'S SUMMIT, LLC.
 4220 PHILLIPS FARM RD.
 COLUMBIA, MO 65201
 573-615-2252

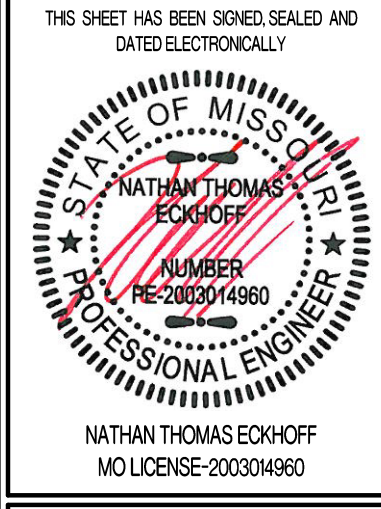
Sheet Number	Sheet Title	ORIGINAL	CITY COMMENTS
CE 10	COVER SHEET	X	
CE 11	PROJECT SPECIFICATIONS	X	
CE 21	EROSION CONTROL PLAN	X	
CE 22	EROSION CONTROL DETAILS	X	
CE 3.0	OVERALL GRADING PLAN	X	
CE 3.1	GRADING PLAN SHEET 1	X	X
CE 3.2	GRADING PLAN SHEET 2	X	X
CE 3.3	GRADING PLAN SHEET 3	X	X
CE 3.4	GRADING PLAN SHEET 4	X	
CE 4.1	UTILITY PLAN	X	X
CE 5.1	STORM PROFILE & DETAILS	X	X
CE 5.2	STORM DETAILS CONTD	X	X
CE 5.3	25-YEAR STORM CALCULATIONS	X	
CE 5.4	100-YEAR STORM CALCULATIONS	X	
CE 6.1	SITE PLAN	X	X
CE 7.1	DETAILS SHEET 1	X	
CE 7.2	DETAILS SHEET 2	X	
CE 7.3	LEE'S SUMMIT DETAILS SHEET 1	X	
CE 7.4	LEE'S SUMMIT DETAILS SHEET 2	X	
CE 8.1	LANDSCAPE PLAN	X	X

LEGEND OF SYMBOLS:

- EXISTING CURB
- PROPOSED CURB
- RIP RAP
- EXISTING STRUCTURE
- EXISTING TREELINE
- PROPOSED TREELINE
- EDGE OF WATERWAY
- EXISTING WATERLINE
- PROPOSED WATERLINE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELEC. & TV
- EXISTING OVERHEAD ELEC., TV & TELE.
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 100 YEAR FLOOD PLAIN
- FLOODWAY
- ORDINARY HIGH WATER MARK
- STREAM SIDE BUFFER
- OUTER STREAM BUFFER
- PROPOSED CONCRETE PAVEMENT
- PROPOSED CONCRETE PAVEMENT IN PARKING GARAGE
- PIPE EMBEDMENT UNDER PAVEMENT
- FF=XXXX FINISHED FLOOR OF STRUCTURE
- XXXX.XX TC PROPOSED TOP OF CURB ELEVATION
- XXXX.XX TP PROPOSED TOP OF PAVEMENT ELEVATION
- XXXX.XX FG PROPOSED FINISHED GRADE ELEVATION
- XXXX.XX TW PROPOSED TOP OF WALL
- XX LOT NUMBER
- X STORM SEWER STRUCTURE LABEL
- X SANITARY SEWER STRUCTURE LABEL
- H.P. HIGH POINT
- L.P. LOW POINT
- EXISTING SIGNS
- EXISTING POWER POLE
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- MANHOLE
- EXISTING SANITARY SEWER LATERAL
- PROPOSED SANITARY SEWER LATERAL
- PROPOSED TRACER WIRE TEST STATION BOX
- EXISTING AIR CONDITIONER
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- PROPOSED BUILDING FOOTPRINT
- PROPOSED HEAVY DUTY PAVEMENT

REVISIONS:

NO.	DATE
ORIGINAL	07/12/2024



PREPARED BY:
CROCKETT
 ENGINEERS & ARCHITECTS
 1000 W. Wilson Blvd., Ste. 100
 Columbia, Missouri 65203
 (314) 487-0292
 www.crockettengineering.com
 Crockett Engineering Consultants, LLC
 Missouri Certificate of Authority
 #00000001

OWNER:
 DISCOVERY PARK LEE'S SUMMIT, LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

COVER SHEET

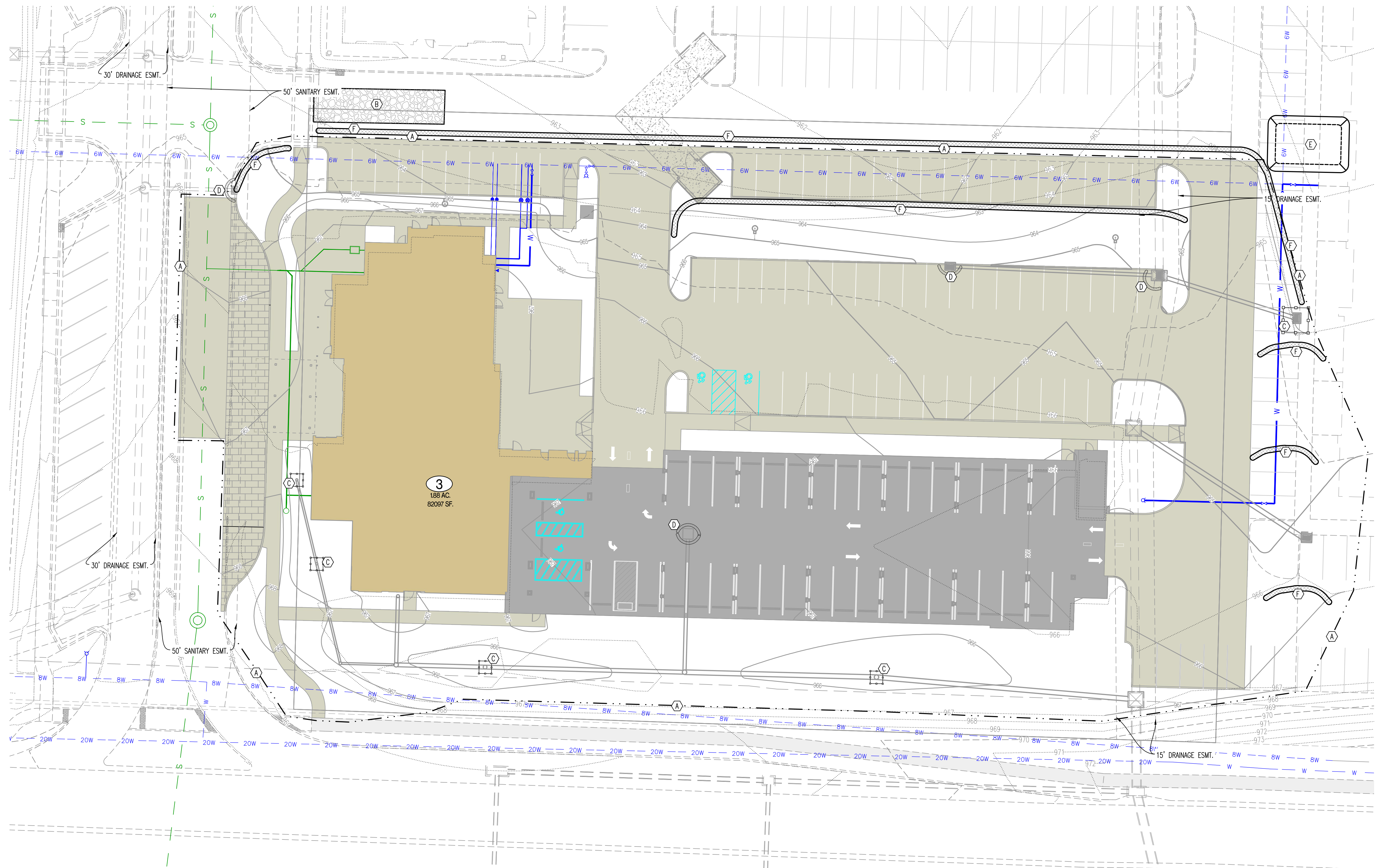
DESIGNED: NTE

DRAWN: NMD

PROJECT NO: 230286

SHEET:
 CE 10

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\MapAD Files\Construction Plans\230286 Lot 3 Site Base.dwg



LEGEND OF LABELS:

- (A) LIMITS OF DISTURBANCE.
- (B) INSTALL CRUSHED STONE CONSTRUCTION ENTRANCE. ALL CONSTRUCTION TRAFFIC SHALL LEAVE THE SITE VIA THIS EXIT. REFER TO ESC-01 ON CE 2.2.
- (C) INSTALL INLET PROTECTION AROUND THROAT OF INLET. REFER TO ESC-07 ON CE 2.2.
- (D) INSTALL 2" X 10" BOARD WRAPPED IN SILT FENCE AT THROAT OF INLET. REPLACE BOARD WITH CUTTERBUDDY (OR APPROVED EQUAL) AT THROAT OF INLET AFTER PAVING OPERATIONS ARE COMPLETE. REFER TO ESC-06 ON CE 2.2.
- (E) 20' X 30' X 3" MIN CONCRETE WASHOUT FACILITY. THE WASHOUT FACILITY IS TO BE LINED WITH A PLASTIC LINING MATERIAL (10 MIL POLYETHYLENE SHEETING MIN.) FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. A SIGN SHALL BE INSTALLED ADJACENT TO FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. REFER TO ESC-01 ON CE 2.2 FOR CITY REQUIREMENTS.
- (F) INSTALL STRAW WATTLE AS SHOWN. REFER TO ESC-04 ON CE 2.2.

REVISIONS:	
NO.	DATE
ORIGINAL	07/12/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF
 MISSOURI PROFESSIONAL ENGINEER
 LICENSE NO. 200304960
 MISSOURI LICENSE 200304960

PREPARED BY:
CROCKETT ENGINEERING
 ENGINEERS & ARCHITECTS
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 (314) 487-0291
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 Crockett Engineering Consultants, LLC
 Missouri Certificate of Authority
 #000000001

OWNER:
 DISCOVERY PARK LEES SUMMIT LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

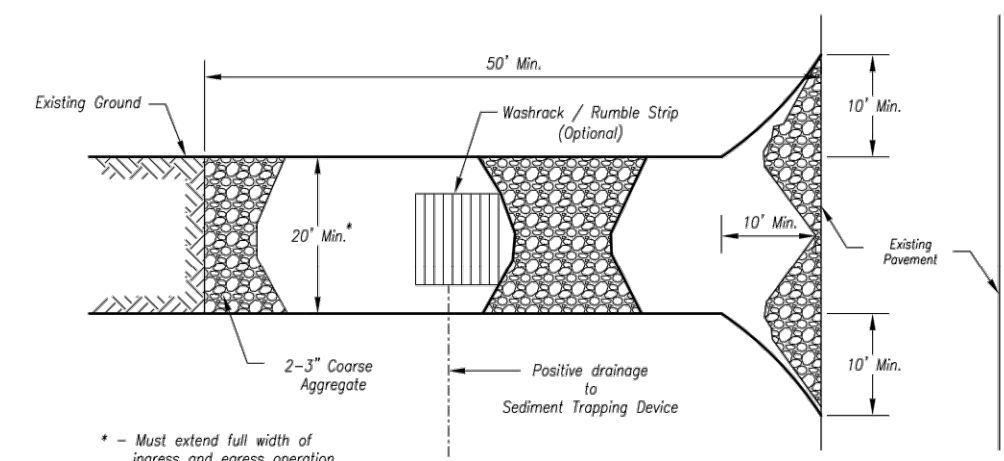
THE VILLAGE AT DISCOVERY

LOT 3

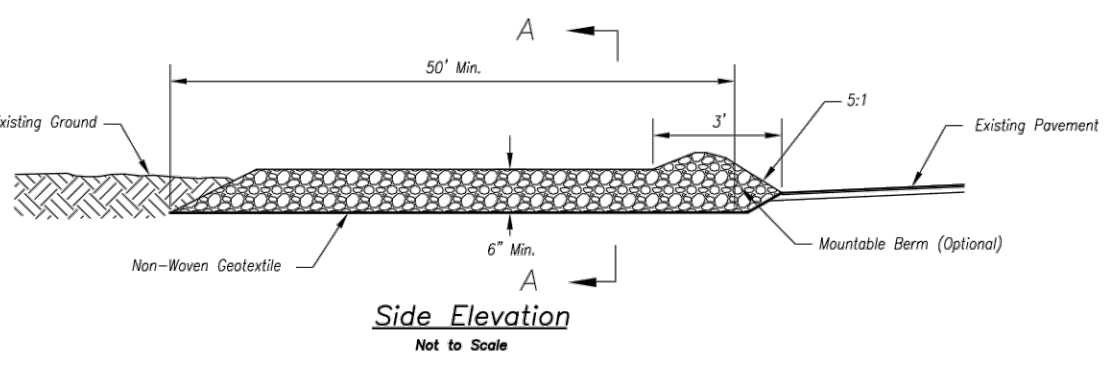
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 EROSION CONTROL PLAN

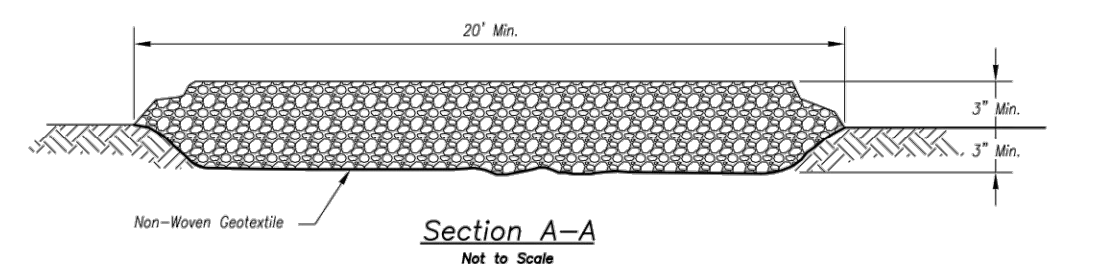
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE 2.1



Plan View
Not to Scale



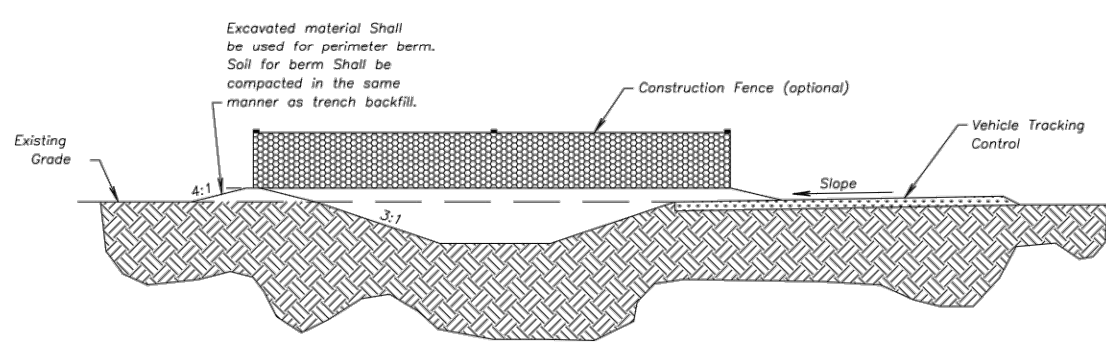
Side Elevation
Not to Scale



Section A-A
Not to Scale

- Notes for Concrete Washout:**
- Concrete washout areas shall be installed prior to any concrete placement on site.
 - Concrete washout areas shall include a flat subsurface pit lined with a minimum of 2\"/>

- Maintenance for Concrete Washout:**
- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
 - Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
 - Concrete washout water, washed pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.



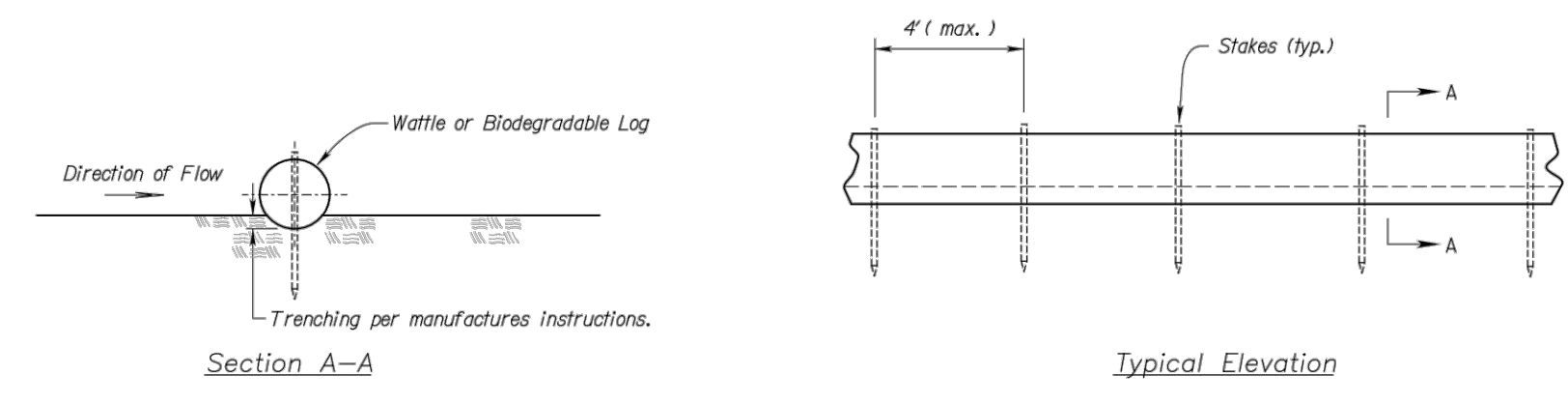
AMERICAN PUBLIC WORKS ASSOCIATION
APWA
 KANSAS CITY METRO CHAPTER
 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
 STANDARD DRAWING NUMBER ESC-01 ADOPTED 10/24/2016

- Notes for Construction Entrance:**
- Avoid locating on steep slopes, at curves on public roads, or adjacent to obstructed areas.
 - Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
 - If slope towards the public road exceeds 2%, construct a 6\"/>

- Maintenance for Construction Entrance:**
- Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

CONSTRUCTION ENTRANCE

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control. Concrete Washout modified from 2009 City of Great Bend Standard Drawings.



Section A-A

Typical Elevation

WATTLES AND BIODEGRADABLE LOG

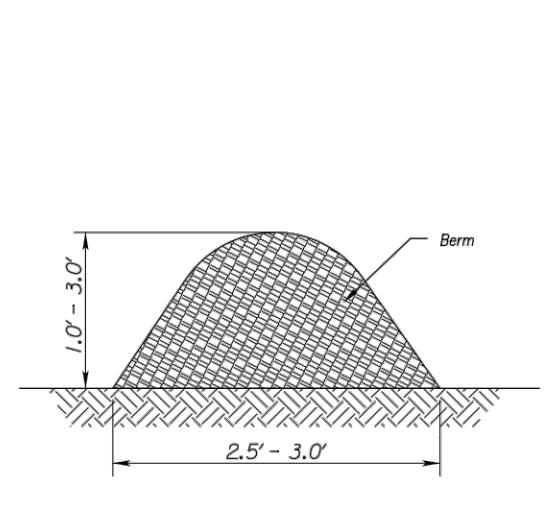


Figure 1
(Perimeter Control)

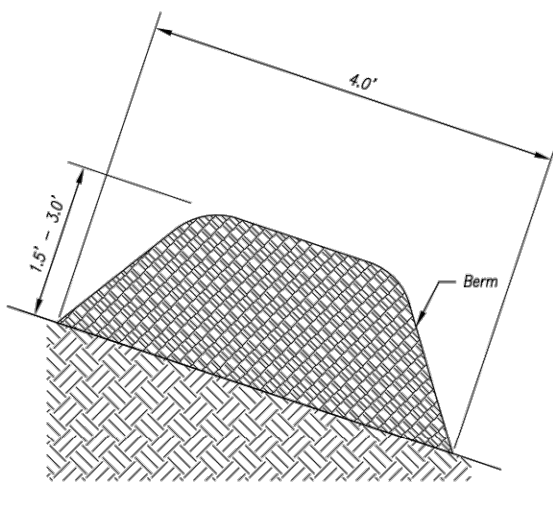


Figure 2
(Steep Slopes)

MULCH OR COMPOST FILTER BERMS

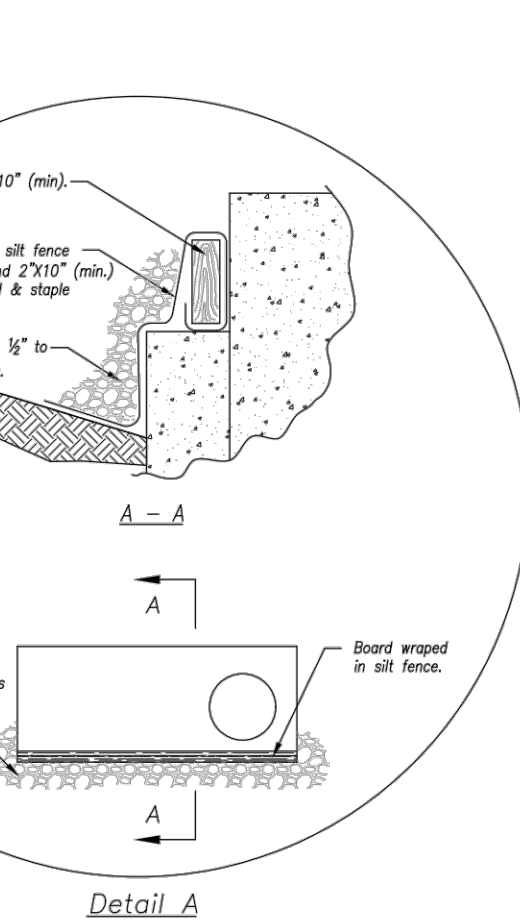
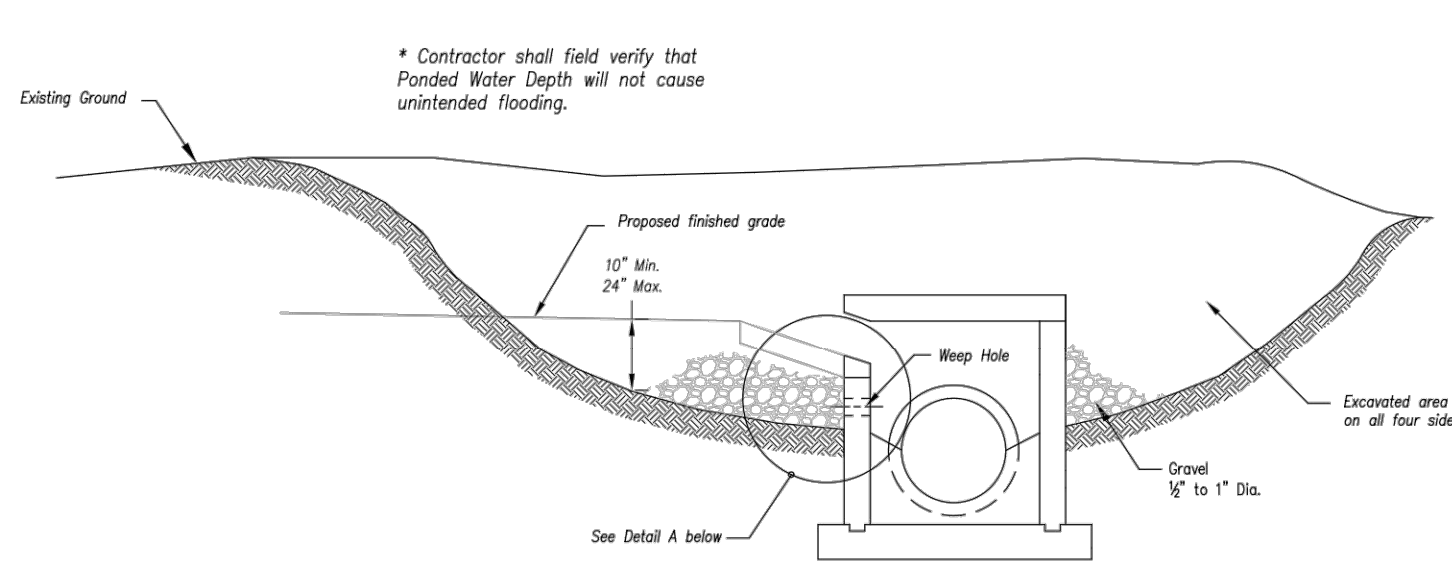
- Notes for Wattles and Biodegradable Log Slope Protection:**
- The Slope barriers shall be placed along contour lines, with a short section turned upslope at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
 - Install wattles and biodegradable logs per manufacturer's instructions.
 - Spacing of stakes per manufacturer's instructions with 4\"/>

- Notes for Mulch and Compost Filter Berm:**
- The sediment control berm shall be placed uncompact in a shallow all locations shown on the plans or as directed by the engineer.
 - Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
 - If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
 - Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
 - Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, tub grinder or other approved method. Mulch sizing varies with a maximum width of 2\"/>

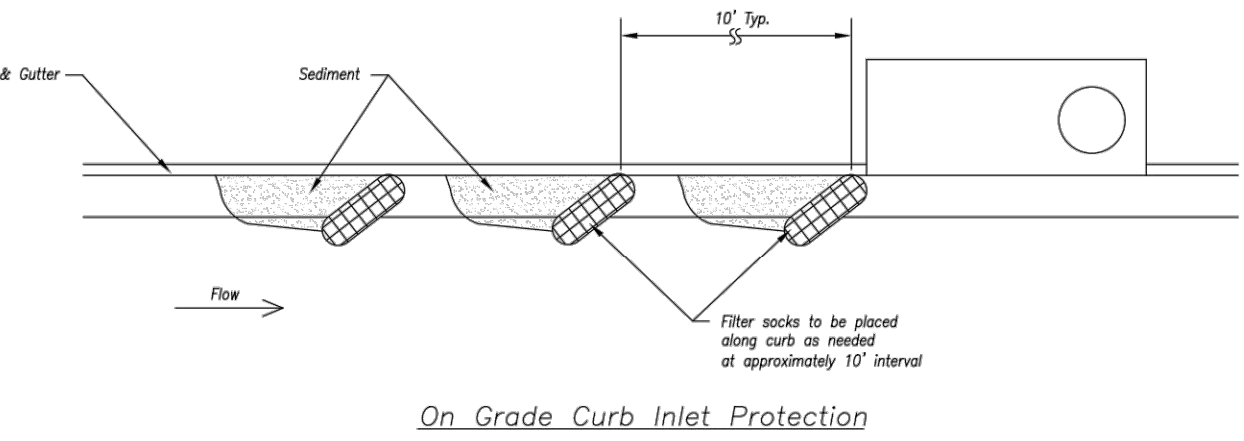
- Maintenance for Mulch and Compost Filter Berm:**
- Berm shall be reshaped and material added as necessary to maintain function and dimensions.
 - Breaches in the berm shall be repaired promptly.

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APWA
 KANSAS CITY METRO CHAPTER
 WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM
 STANDARD DRAWING NUMBER ESC-04 ADOPTED 10/24/2016

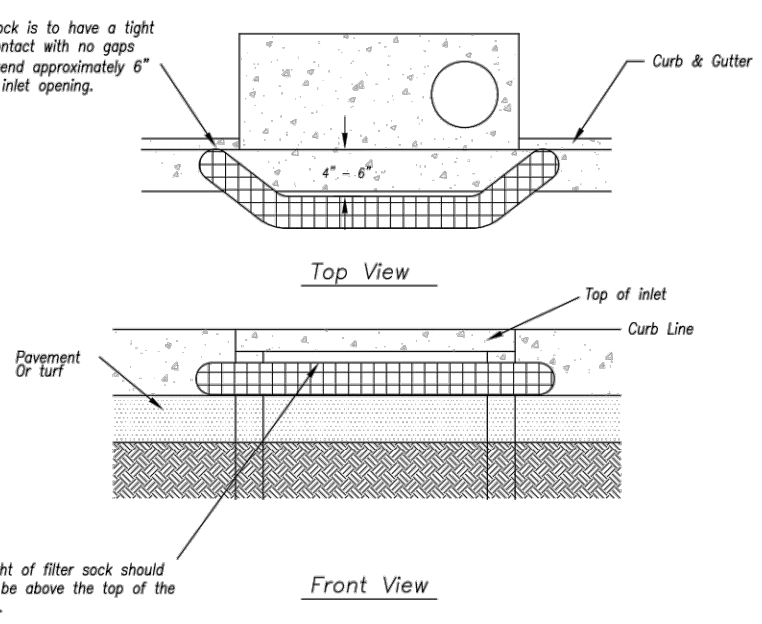
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)



On Grade Curb Inlet Protection



Sump Inlet Sediment Filter

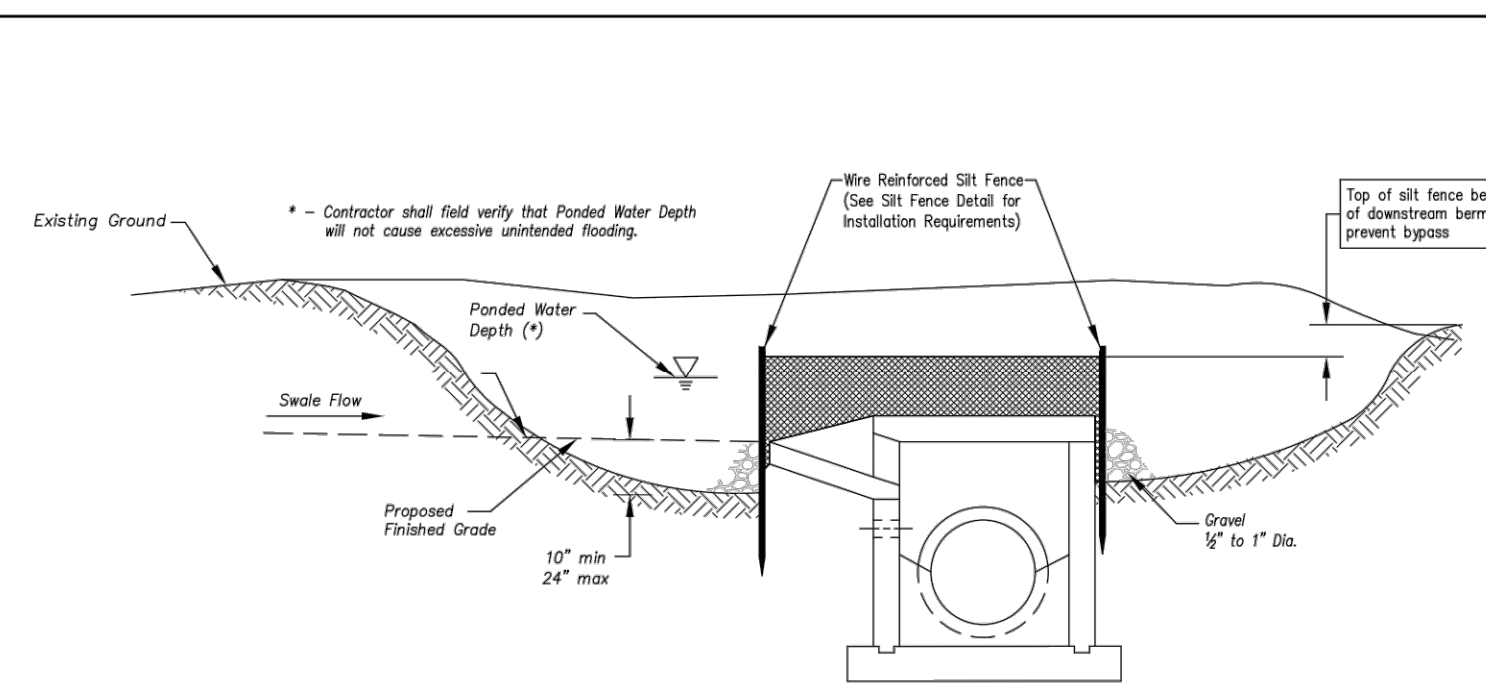
LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

- Notes:**
- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2\"/>

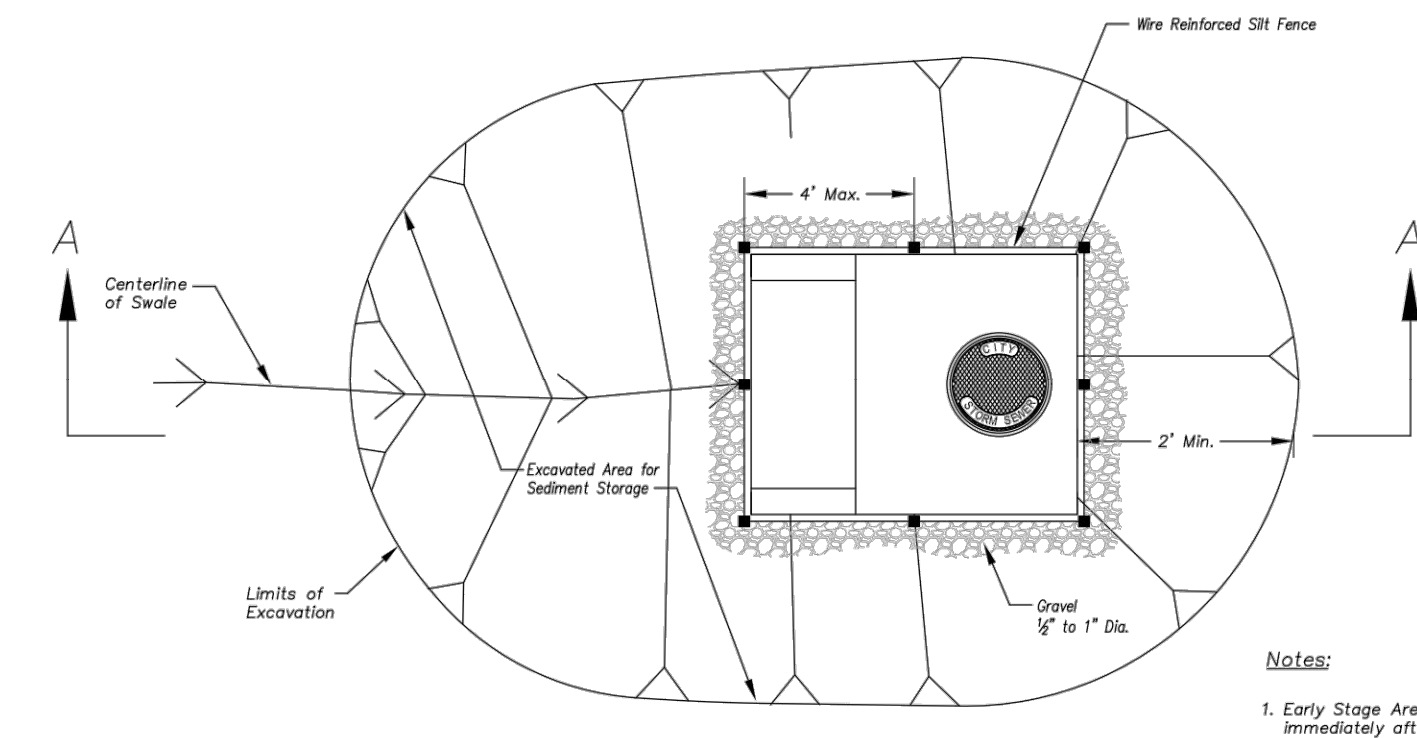
- Maintenance:**
- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
 - Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
 - Repair or replace as necessary to maintain function and integrity of installation.

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APWA
 KANSAS CITY METRO CHAPTER
 CURB INLET PROTECTION
 STANDARD DRAWING NUMBER ESC-06 ADOPTED 10/24/2016

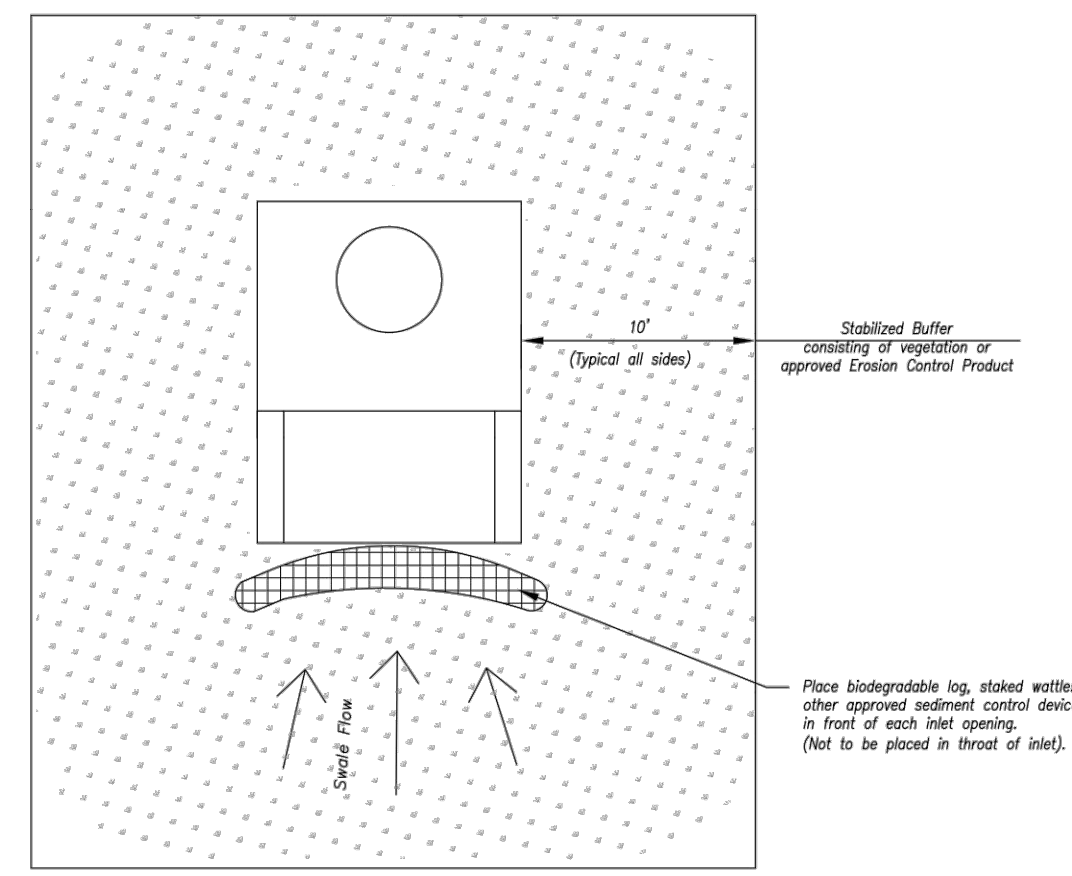
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



Section A-A
Not to Scale



EARLY STAGE AREA INLET
(All open boxes and inlets not at final grade)



LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

- Notes:**
- Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
 - Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
 - Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.
 - Wire reinforced silt fence may be used in place of silt fence attached to wood frame.

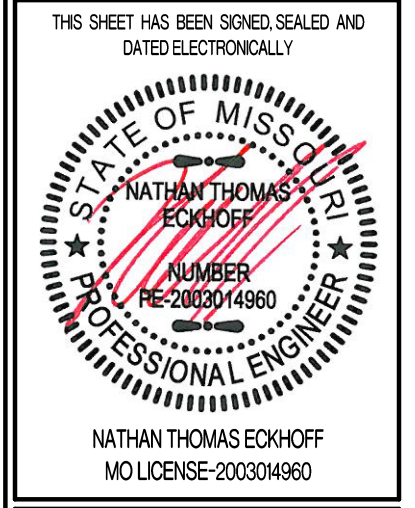
- Maintenance:**
- Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
 - Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
 - Repair or replace as necessary to maintain function and integrity of installation.

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APWA
 KANSAS CITY METRO CHAPTER
 AREA INLET AND JUNCTION BOX PROTECTION
 STANDARD DRAWING NUMBER ESC-07 ADOPTED 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024



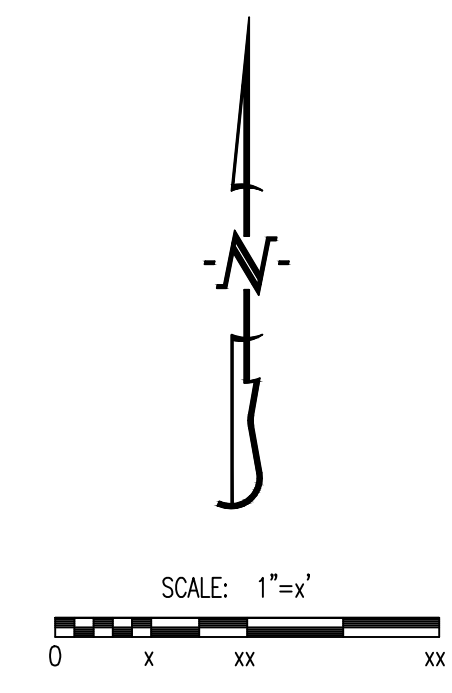
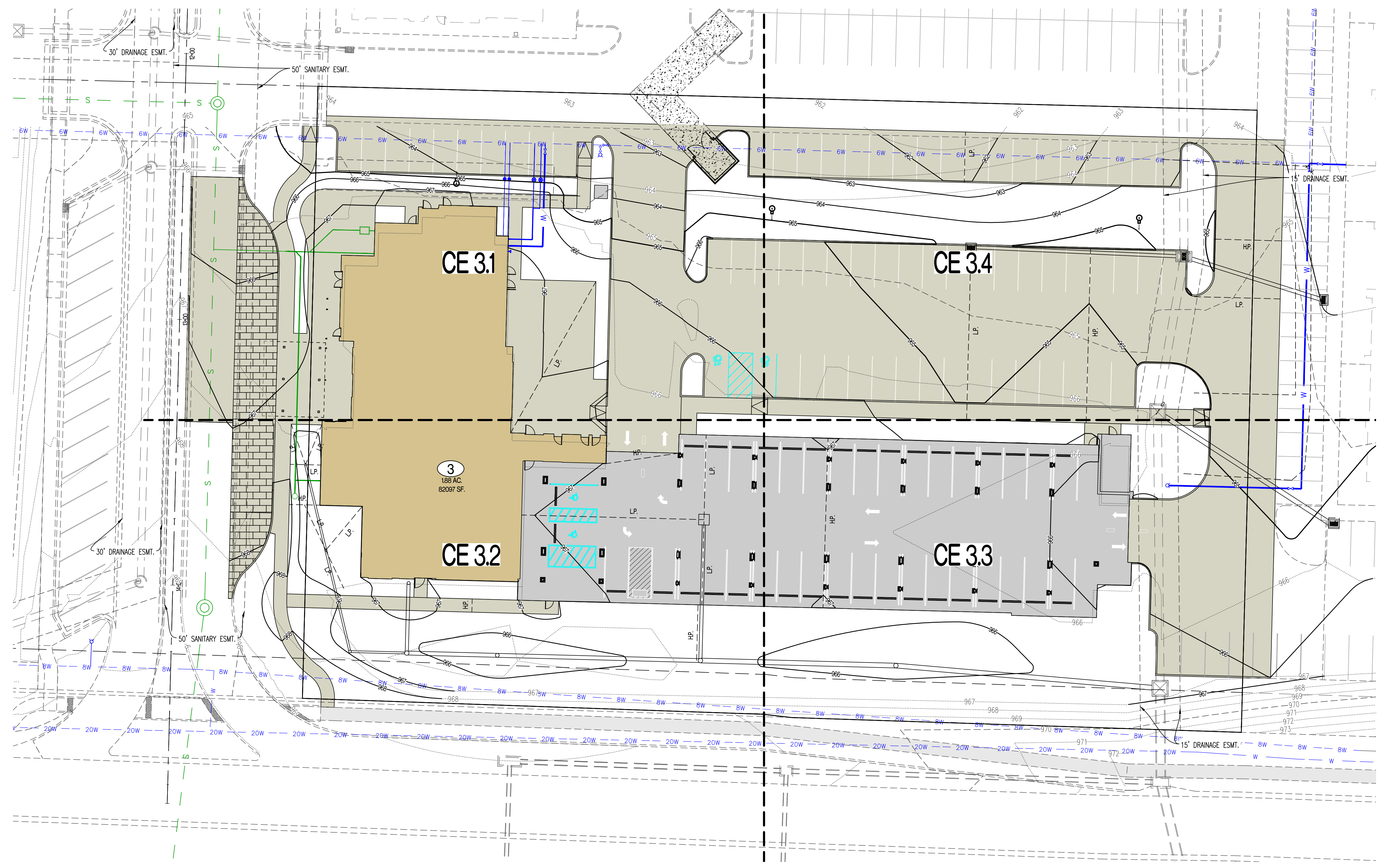
PREPARED BY:
CROCKETT ENGINEERS & PLANNERS
 1008 W. Walnut Street, Suite 1000
 Columbia, Missouri 65203
 (314) 487-0299
 www.crockettengineering.com
 Missouri Certificate of Authority #000000001

OWNER:
 DISCOVERY PARK LEES SUMMIT LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 EROSION CONTROL DETAILS

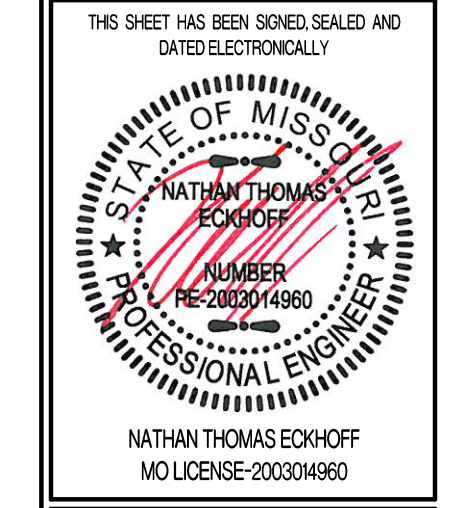
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET: CE 22



- LEGEND OF SYMBOLS:**
- x---x--- EXISTING MINOR CONTOUR
 - x---x--- EXISTING MAJOR CONTOUR
 - x---x--- PROPOSED MINOR CONTOUR
 - x---x--- PROPOSED MAJOR CONTOUR
 - FF=XXXX FINISHED FLOOR OF STRUCTURE

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
<small>THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.</small>  NATHAN THOMAS ECKHOFF MISSOURI LICENSE 200304960	
PREPARED BY:  <small>ENGINEERS & ARCHITECTS 1000 W. Wilson Blvd., Ste. 100 Columbia, Missouri 65203 (314) 487-0291 www.crockettengineering.com Missouri Certificate of Authority #000001001</small>	
OWNER: DISCOVERY PARK LEES SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201	
<h1>THE VILLAGE AT DISCOVERY</h1> <h2>LOT 3</h2> <h3>LEES SUMMIT, JACKSON COUNTY, MISSOURI</h3>	
DRAWING INCLUDES:	
OVERALL GRADING PLAN	
DESIGNED:	NTE
DRAWN:	NMD
PROJECT NO:	230286
SHEET:	CE 3.0

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/07/2024



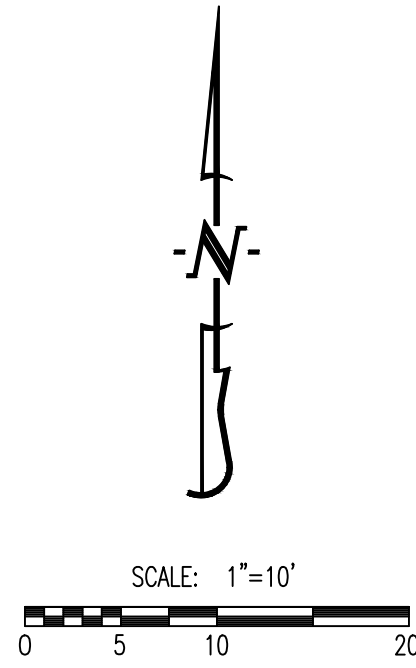
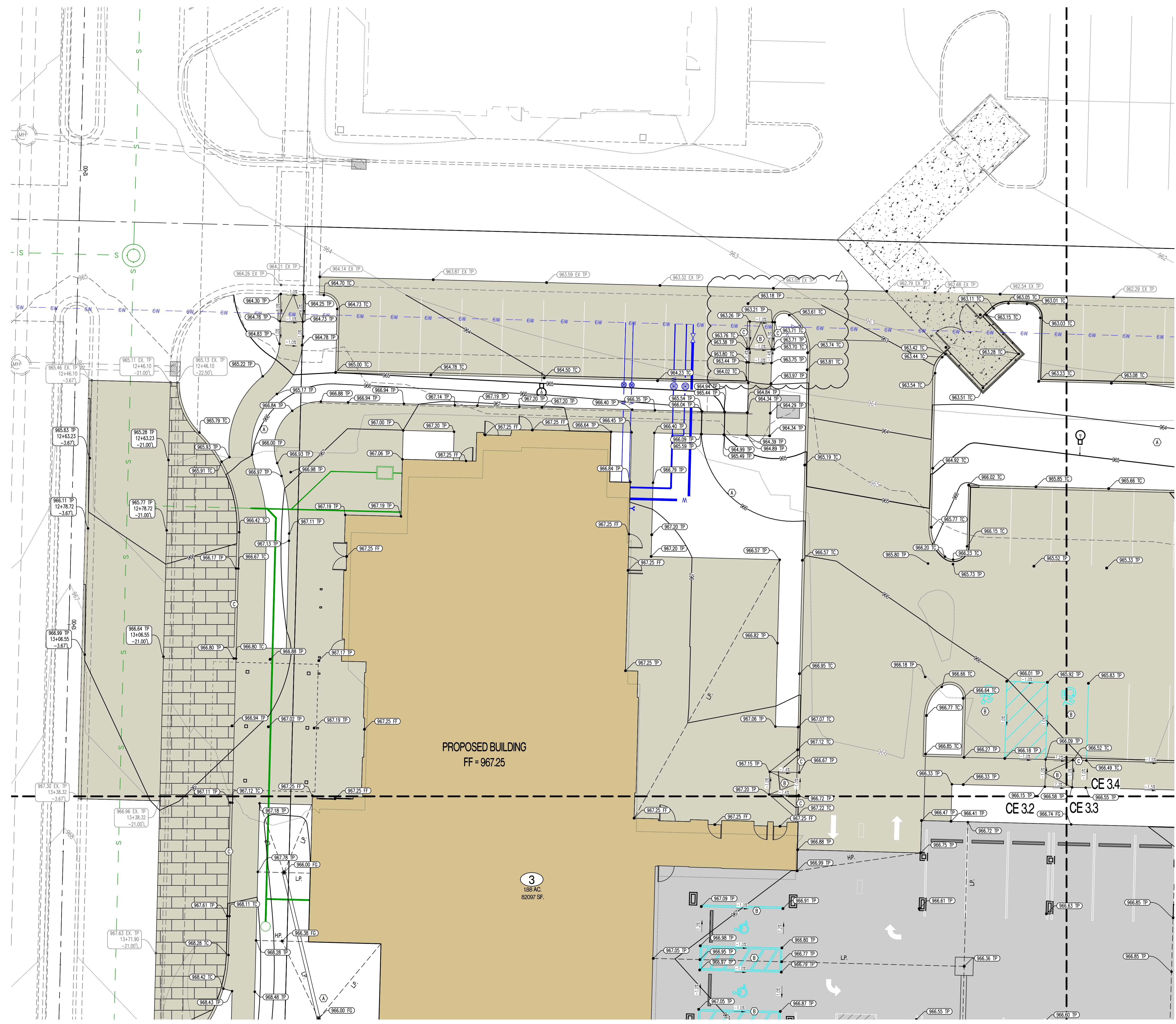
PREPARED BY:
CROCKETT
 ENGINEERS & ARCHITECTS
 1000 W. Illinois Blvd., Ste. 300
 Columbia, Missouri 65203
 (314) 487-0299
 www.crockettengineering.com
 Missouri Certificate of Authority
 #000000001

OWNER:
 DISCOVERY PARK LEES SUMMIT LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY LOT 3 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 GRADING PLAN SHEET 1

DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE.31

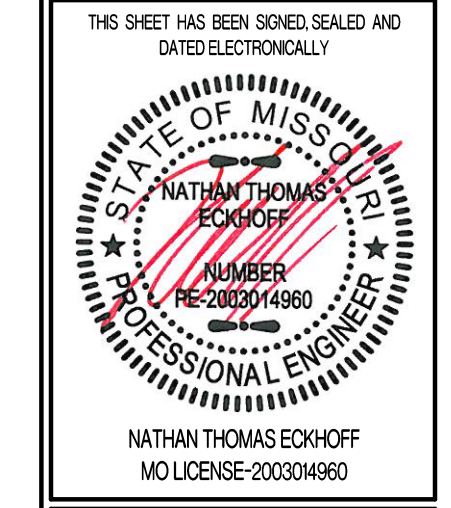


- LEGEND OF LABELS**
- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL. SEED AND MULCH ALL DISTURBED AREAS.
 - (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
 - (C) TRANSITION FROM 6" CURB TO 0" CURB.

- LEGEND OF SYMBOLS:**
- XXX--- EXISTING MINOR CONTOUR
 - - - - - EXISTING MAJOR CONTOUR
 - XXX--- PROPOSED MINOR CONTOUR
 - - - - - PROPOSED MAJOR CONTOUR
 - FF-XXXX FINISHED FLOOR OF STRUCTURE
 - XXXXXX TC PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
 - XXXXXX TP PROPOSED TOP OF PAVEMENT ELEVATION
 - XXXXXX FG PROPOSED FINISHED GRADE ELEVATION
 - XXXXXX FF PROPOSED FINISHED FLOOR AT DOOR

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\A2AD Files\Construction Plans\230286 Lot 3 Grading Base.dwg

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/07/2024



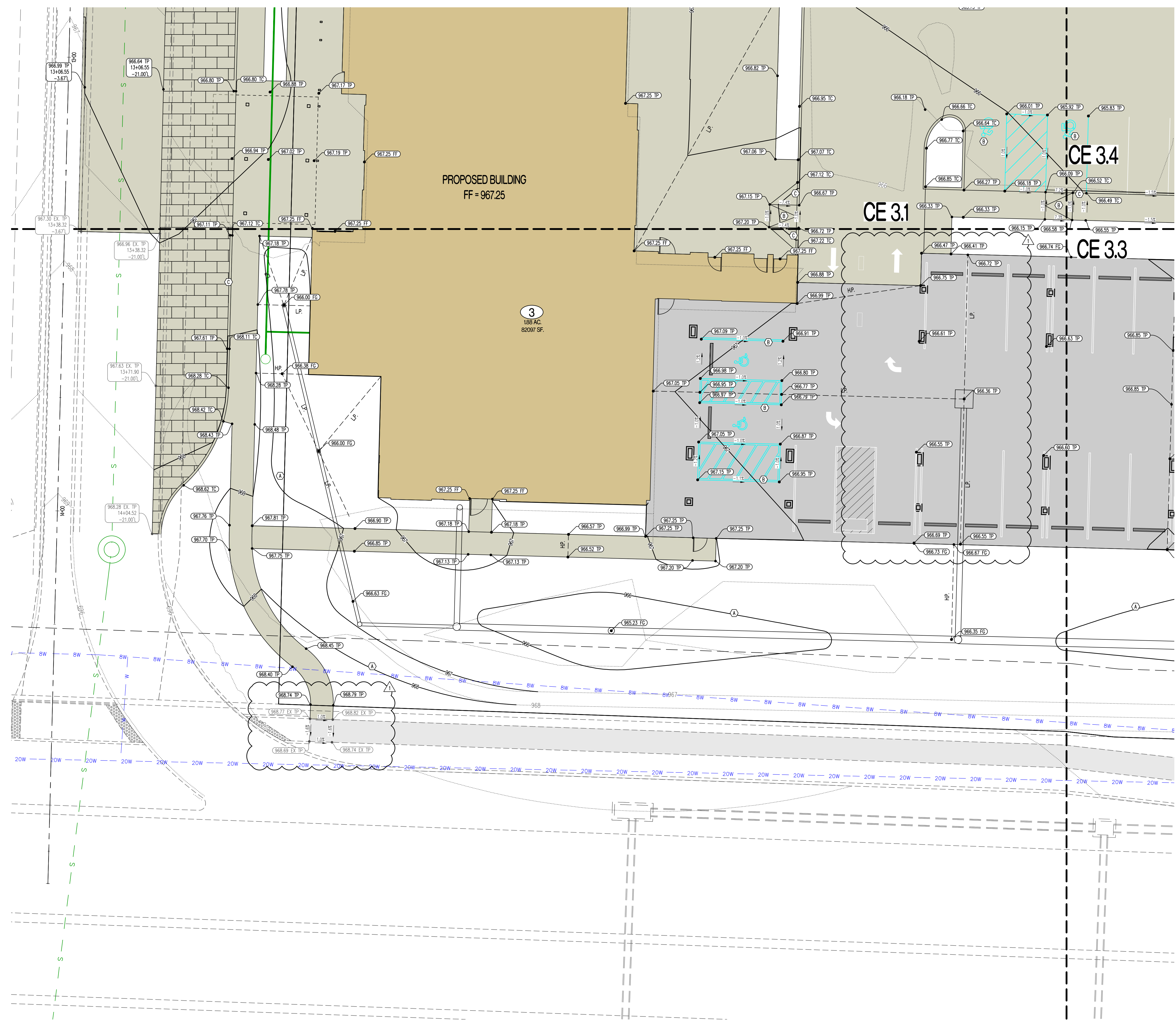
PREPARED BY:
CROCKETT
 ENGINEERS & ARCHITECTS
 1008 W. Illinois Street, Suite 200
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 www.crockettengineering.com
 Crockett Engineering Consultants, LLC
 Missouri Certificate of Authority
 #00000001

OWNER:
 DISCOVERY PARK LEES SUMMIT, LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY LOT 3 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 GRADING PLAN SHEET 2

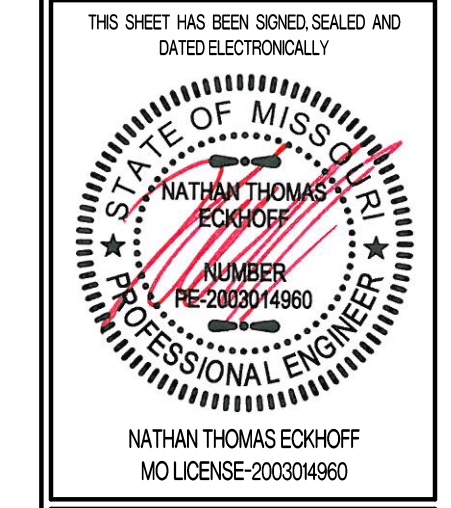
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE 32



- LEGEND OF LABELS**
- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL, SEED AND MULCH ALL DISTURBED AREAS.
 - (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
 - (C) TRANSITION FROM 6" CURB TO 0" CURB.

- LEGEND OF SYMBOLS:**
- X---X--- EXISTING MINOR CONTOUR
 - X---X--- EXISTING MAJOR CONTOUR
 - X---X--- PROPOSED MINOR CONTOUR
 - X---X--- PROPOSED MAJOR CONTOUR
 - FF-XXXX FINISHED FLOOR OF STRUCTURE
 - (XXXX) TC PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
 - (XXXX) TP PROPOSED TOP OF PAVEMENT ELEVATION
 - (XXXX) FD PROPOSED FINISHED GRADE ELEVATION
 - (XXXX) FF PROPOSED FINISHED FLOOR AT DOOR

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/02/2024



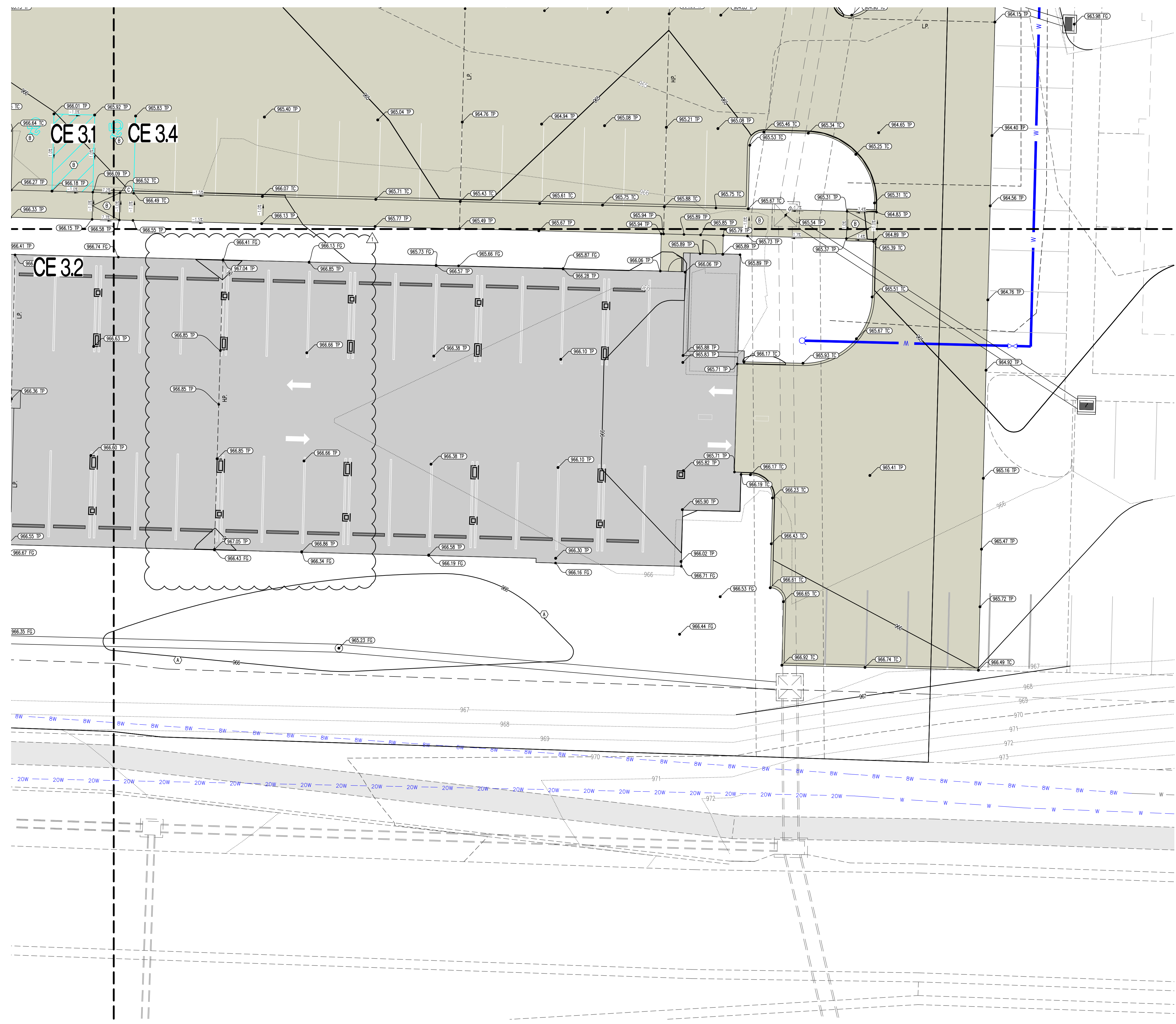
PREPARED BY:
CROCKETT ENGINEERS & ARCHITECTS
 1000 W. Illinois Street
 Columbia, Missouri 65203
 (314) 487-0291
 www.crockettengineering.com
 Missouri Certificate of Authority
 #00000001

OWNER:
DISCOVERY PARK LEES SUMMIT LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY LOT 3 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 GRADING PLAN SHEET 3

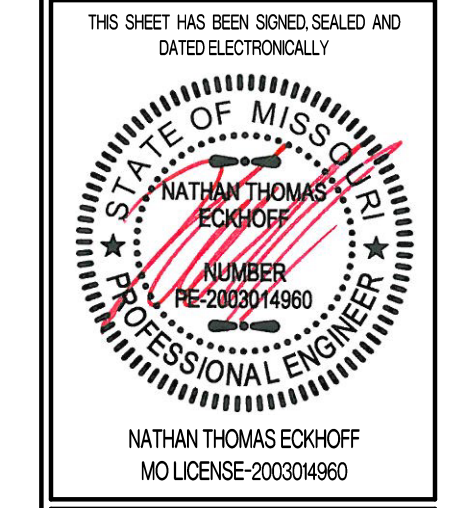
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE 33



- LEGEND OF LABELS**
- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL. SEED AND MULCH ALL DISTURBED AREAS.
 - (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
 - (C) TRANSITION FROM 6" CURB TO 0" CURB.

- LEGEND OF SYMBOLS:**
- X---X--- EXISTING MINOR CONTOUR
 - X---X--- EXISTING MAJOR CONTOUR
 - X---X--- PROPOSED MINOR CONTOUR
 - X---X--- PROPOSED MAJOR CONTOUR
 - FF-XXXX FINISHED FLOOR OF STRUCTURE
 - (XXXX) TC PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
 - (XXXX) TP PROPOSED TOP OF PAVEMENT ELEVATION
 - (XXXX) FC PROPOSED FINISHED GRADE ELEVATION
 - (XXXX) FF PROPOSED FINISHED FLOOR AT DOOR

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024



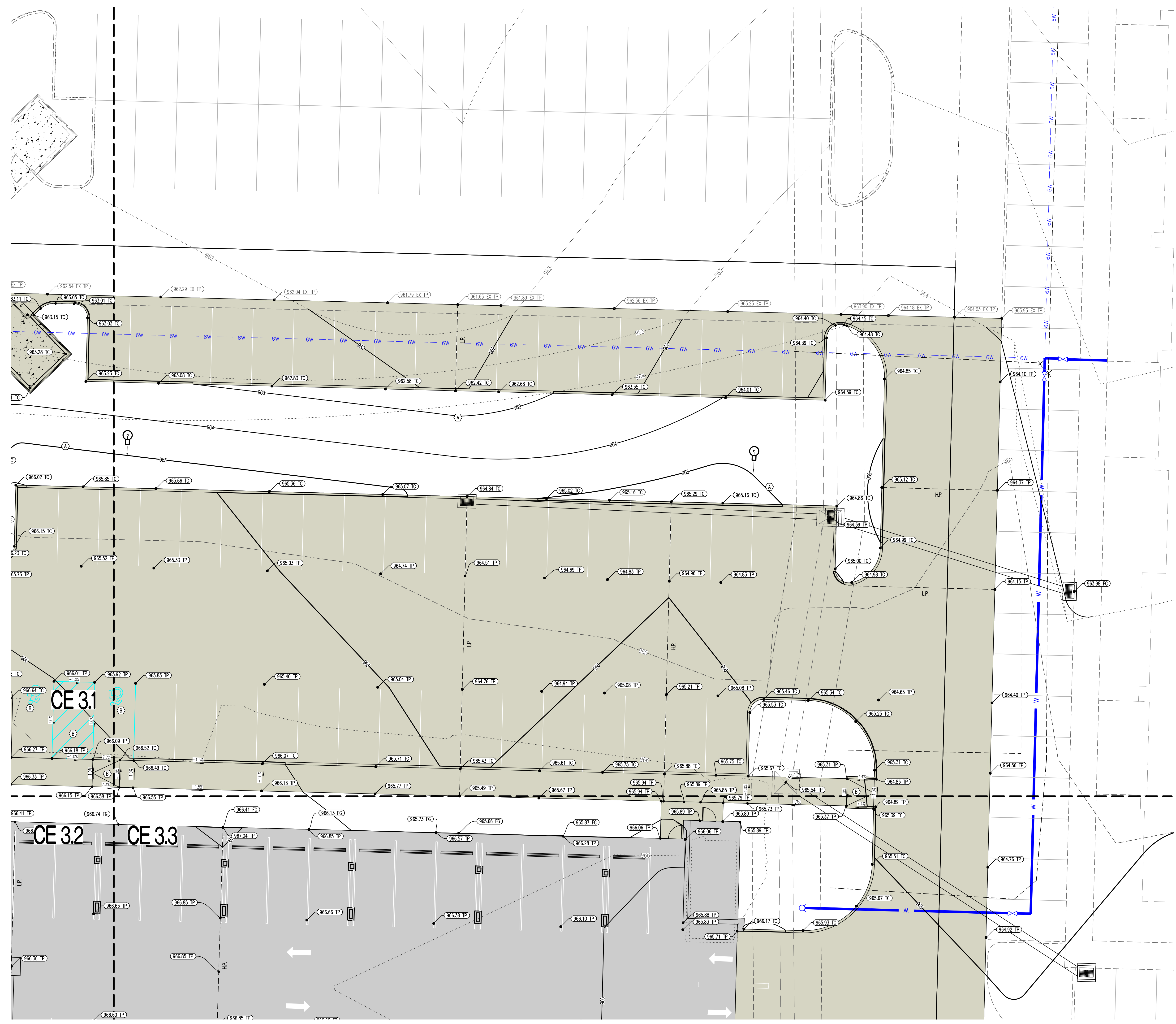
PREPARED BY:
CROCKETT ENGINEERS & PLANNERS
 1000 W. Illinois Blvd.
 Columbia, Missouri 65203
 (314) 487-0291
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 Crockett Engineering Consultants, LLC
 Missouri Certificate of Authority
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OWNER:
 DISCOVERY PARK LEES SUMMIT, LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY LOT 3 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 GRADING PLAN SHEET 4

DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE 3.4



LEGEND OF LABELS

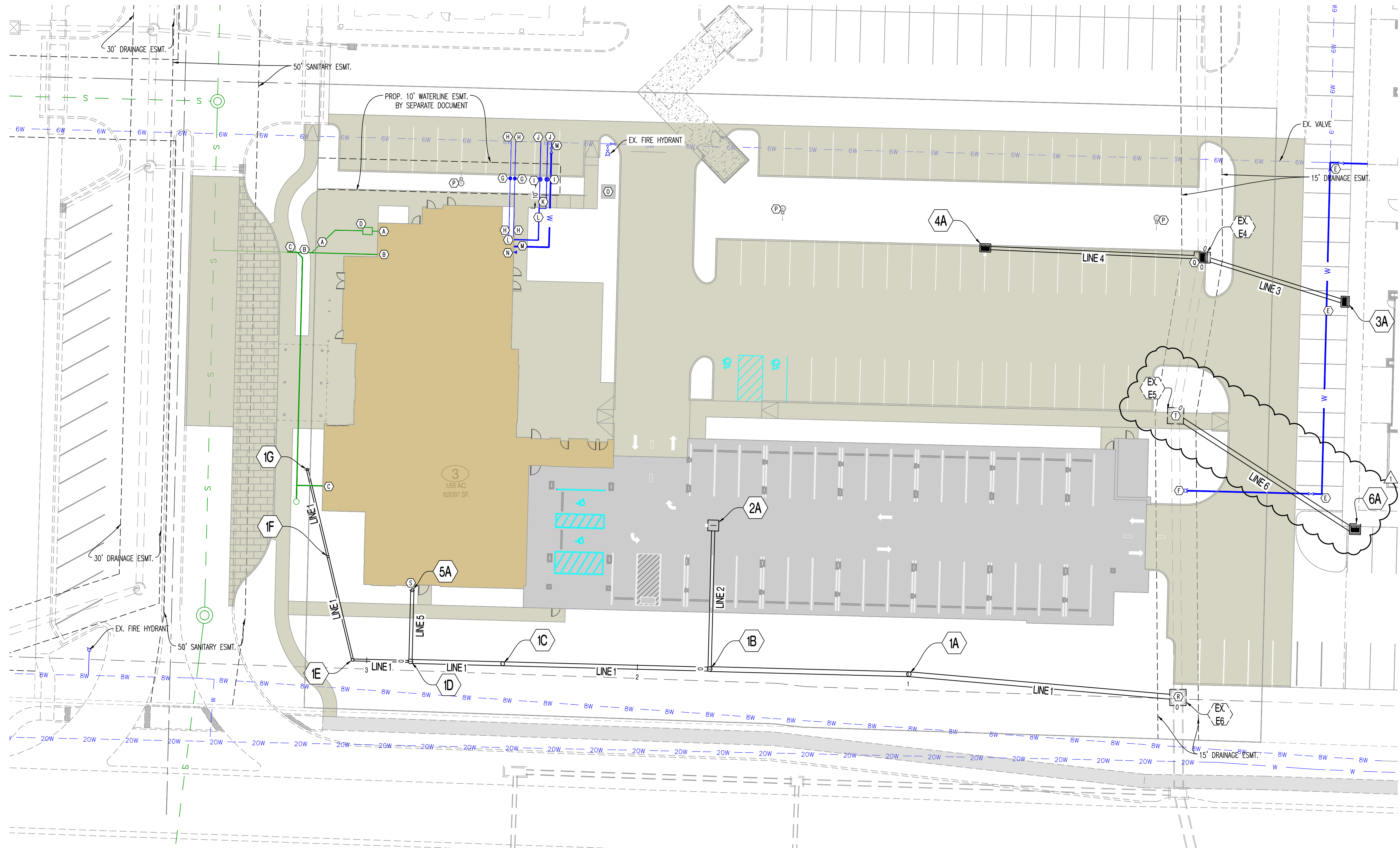
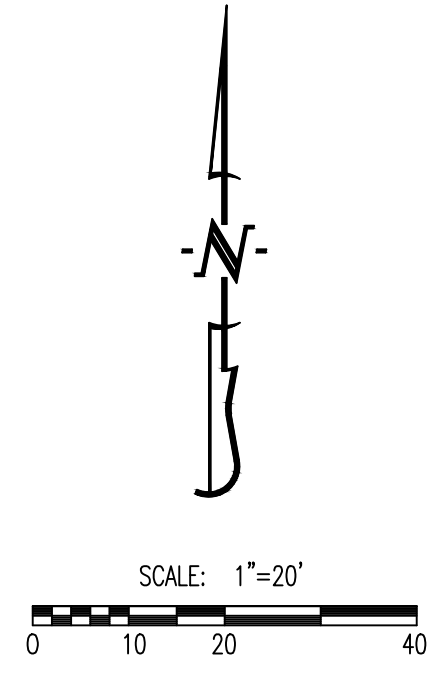
- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL. SEED AND MULCH ALL DISTURBED AREAS.
- (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- (C) TRANSITION FROM 6" CURB TO 0" CURB.

LEGEND OF SYMBOLS:

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- XXX--- PROPOSED MINOR CONTOUR
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- FF-XXXX FINISHED FLOOR OF STRUCTURE
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- XXXXXX TP PROPOSED TOP OF PAVEMENT ELEVATION
- XXXXXX FG PROPOSED FINISHED GRADE ELEVATION
- XXXXXX FF PROPOSED FINISHED FLOOR AT DOOR

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\A\A0 Files\Construction Plans\230286 Lot 3 Grading Base.dwg

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\ACAD Files\Construction Plans\230286 Lot 3 Site Base.dwg



LEGEND OF LABELS	
<p>(A) INSTALL 4" SDR 26 PVC LATERAL TO GREASE INTERCEPTOR AT MINIMUM 1% SLOPE AS SHOWN. ROUTE 4" SDR 26 PVC LEAVING GREASE INTERCEPTOR TO 6" PVC AS SHOWN. INSTALL MAX ADAPTER AT 6" LATERAL CONNECTION. FL = 961.71 AT 6" CONNECTION POINT. FL ≥ 961.99 AT BUILDING CONNECTION. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION.</p> <p>(B) INSTALL 6" SDR 26 PVC LATERAL AT 1% MINIMUM SLOPE AS SHOWN. INSTALL MAX ADAPTER AND CONNECT TO 8" SDR PVC LATERAL. FL = 961.66 AT 8" CONNECTION POINT. ROUTE AT MINIMUM 1% SLOPE TO BUILDING. FL ≥ 961.95 AT BUILDING. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION.</p> <p>(C) INSTALL 8" SDR 26 PVC LATERAL AT 1% MINIMUM SLOPE AS SHOWN. INSTALL 8" X 6" REDUCER AND 6" MAX ADAPTER AND CONNECT TO EXISTING 6" SANITARY STUB. FL = 961.62 AT STUB CONNECTION POINT. ROUTE AT MINIMUM 1% SLOPE TO BUILDING. FL ≥ 962.62 AT BUILDING. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION.</p> <p>(D) PROPOSED GREASE TRAP. REFER TO M.E.P. PLANS.</p> <p>(E) CONTRACTOR TO CONNECT TO EXISTING 6" WATERLINE AND INSTALL 6" C900 CPVC WATERLINE AS SHOWN. CONTRACTOR TO INSTALL ALL BENDS, TEES, VALVES, AND THRUST BLOCKING AS REQUIRED BY CITY OF LEE'S SUMMIT STANDARDS.</p> <p>(F) PROPOSED FIRE HYDRANT</p> <p>(G) INSTALL 1" WATER METER AS SHOWN. CONTRACTOR TO VERIFY WITH M.E.P. AND SPRINKLER DESIGNER PRIOR TO INSTALLATION. REFER TO CITY DETAIL WAT-11 ON CE 7.4.</p> <p>(H) TAP EXISTING 6" WATER LINE WITH 1" CORPORATION STOP VALVE. INSTALL 1" SOFT TYPE K COPPER PIPING AS SHOWN. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION CONTRACTOR TO COORDINATE WITH IRRIGATION DESIGNER.</p> <p>(I) INSTALL 2" WATER METER AS SHOWN. CONTRACTOR TO VERIFY WITH M.E.P. PRIOR TO INSTALLATION. REFER TO CITY DETAIL WAT-11 ON CE 7.4.</p>	<p>(J) CONTRACTOR TO TAP EXISTING 6" WATERLINE AND INSTALL 2" TYPE K SOFT COPPER PIPE WITH 2" CORPORATION STOP VALVE AS SHOWN TO METER PIT. CONTRACTOR TO VERIFY SIZE AND DEPTH AND FURNISH ALL FITTINGS AS REQUIRED. REFER TO CITY OF LEE'S SUMMIT DETAILS ON CE 7.4.</p> <p>(K) PROPOSED 2" TYPE K SOFT COPPER SERVICE LINE. USE 2" X 2" X 4" PIPE FITTING TO CONNECT SERVICE LINES A MINIMUM OF 10' BEYOND METER.</p> <p>(L) PROPOSED 4" C900 CPVC WATERLINE. SERVICE. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION. CONFIRM SIZE AND MATERIAL WITH M.E.P. PLANS.</p> <p>(M) PROPOSED 6" CPVC FIRE LINE. CONNECT AT MAIN WITH TEE AND 6" GATE VALVE DOUBLE CHECK DETECTOR CHECK TO BE INSTALLED IN BUILDING. REFER TO M.E.P. PLANS. CONFIRM SIZE AND MATERIAL WITH SPRINKLER DESIGNER.</p> <p>(N) PROPOSED 4" STORZ FIRE DEPARTMENT CONNECTION (FDC). COORDINATE WITH ARCHITECT AND M.E.P.</p> <p>(O) PROPOSED TRANSFORMER. COORDINATE WITH M.E.P. AND UTILITY PROVIDER.</p> <p>(P) PROPOSED LIGHT POLE. REFER TO M.E.P. PLANS.</p> <p>(Q) CONTRACTOR TO ASBUILT TOP OF CURB OPENING INLET. TOP TO BE ADJUSTED TO FINAL GRADE SHOWN ON CE 3.0-CE 3.4. CONVERT TOP TO TYPE A INLET.</p> <p>(R) CONTRACTOR TO ASBUILT TOP OF JUNCTION BOX. TOP TO BE ADJUSTED TO FINAL GRADE SHOWN ON CE 3.0-CE 3.4.</p> <p>(S) PROPOSED 10" PVC INTERNAL STORM DRAINAGE SYSTEM CONNECTION. COORDINATE EXACT LOCATION WITH M.E.P. ROUTE 10" PVC TO DRAINAGE STRUCTURE 5A AS SHOWN. REFER TO CE 5.1 FOR INVERTS.</p> <p>(T) CONTRACTOR TO ASBUILT TOP OF CURB OPENING INLET. TOP TO BE ADJUSTED TO FINAL GRADE AS SHOWN ON CE 3.0-CE 3.4 AND CONVERTED TO JUNCTION BOX. REFER TO JUNCTION BOX DETAIL ON CE 5.2.</p>

GENERAL NOTES:

1) CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES BEFORE ANY EXCAVATION BEGINS.

2) ALL ITEMS ASSOCIATED WITH DOMESTIC WATERLINE CONSTRUCTION (INTERNAL OF VAULT/METER PIT) ARE SHOWN FOR CITY REVIEW ONLY. CONTRACTOR SHALL VERIFY ALL SIZES AND MATERIALS WITH M.E.P. BEFORE INSTALLATION.

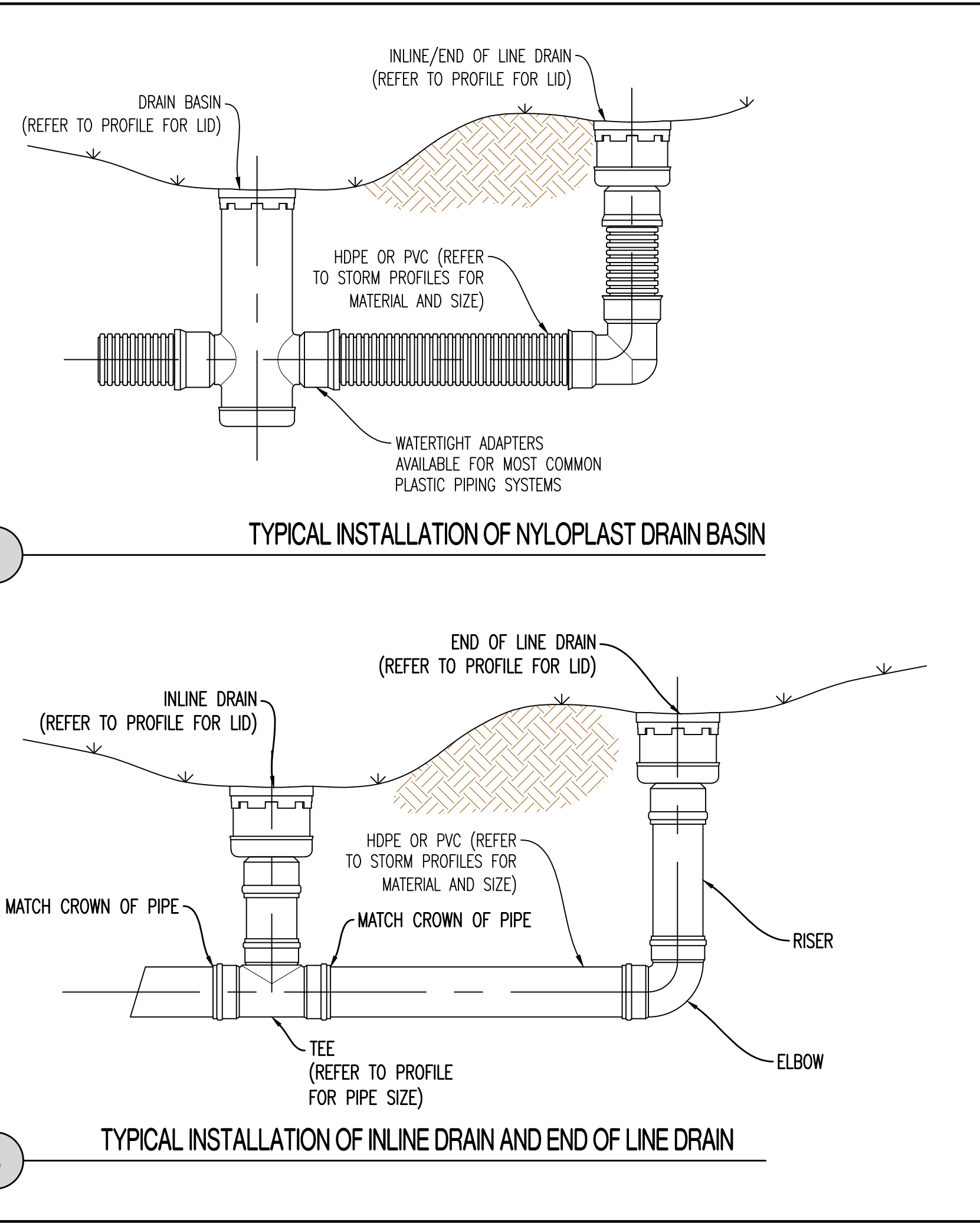
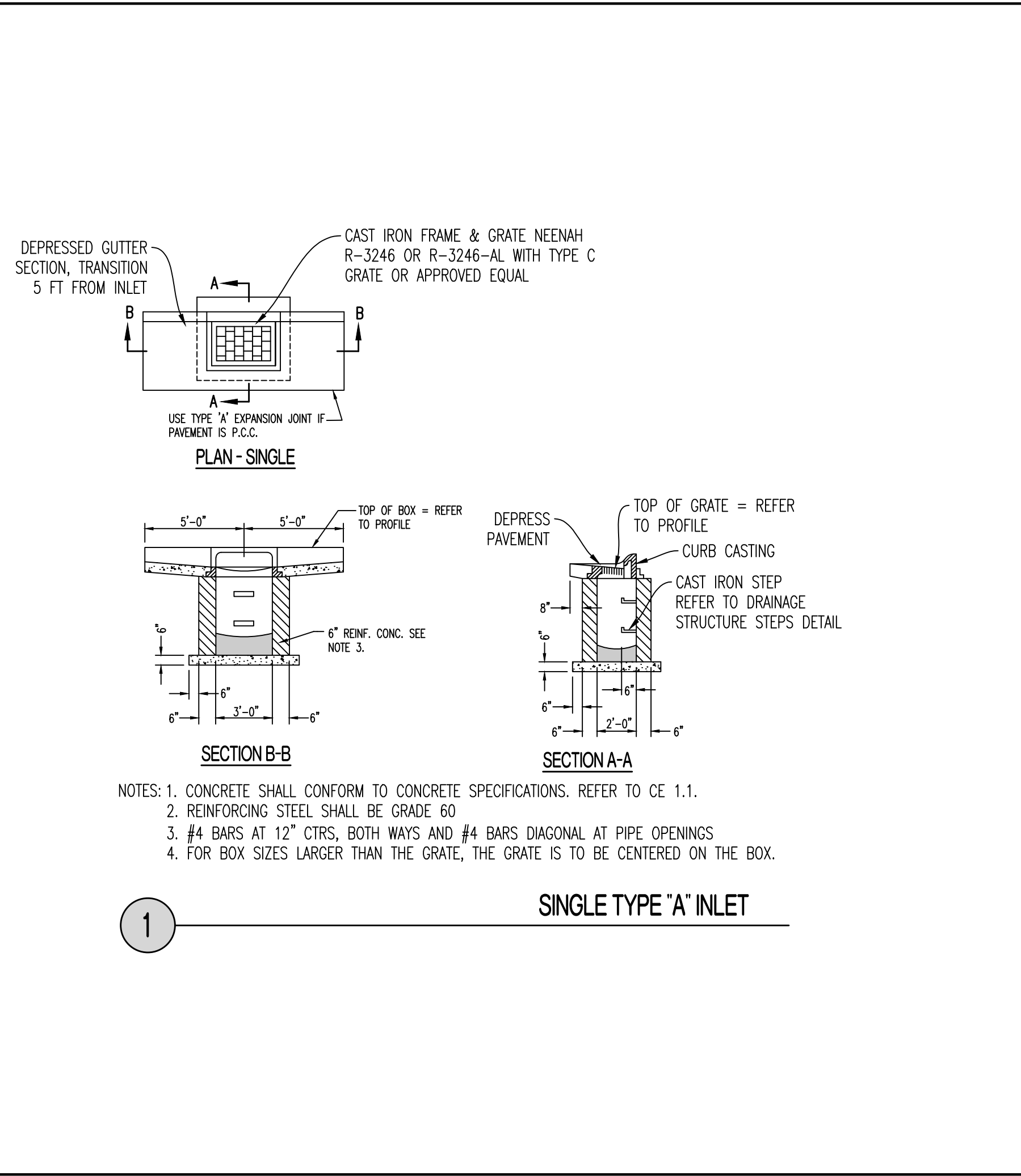
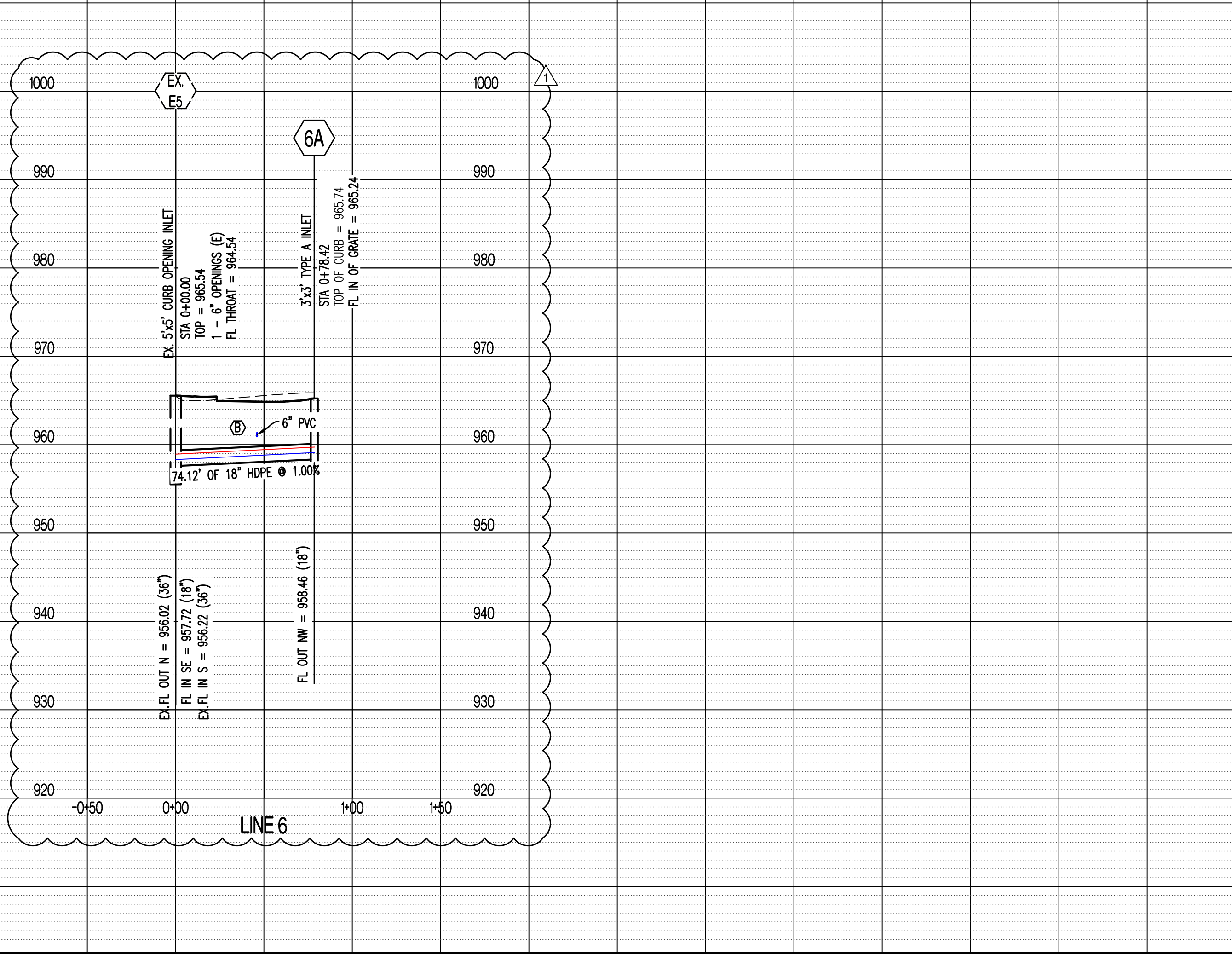
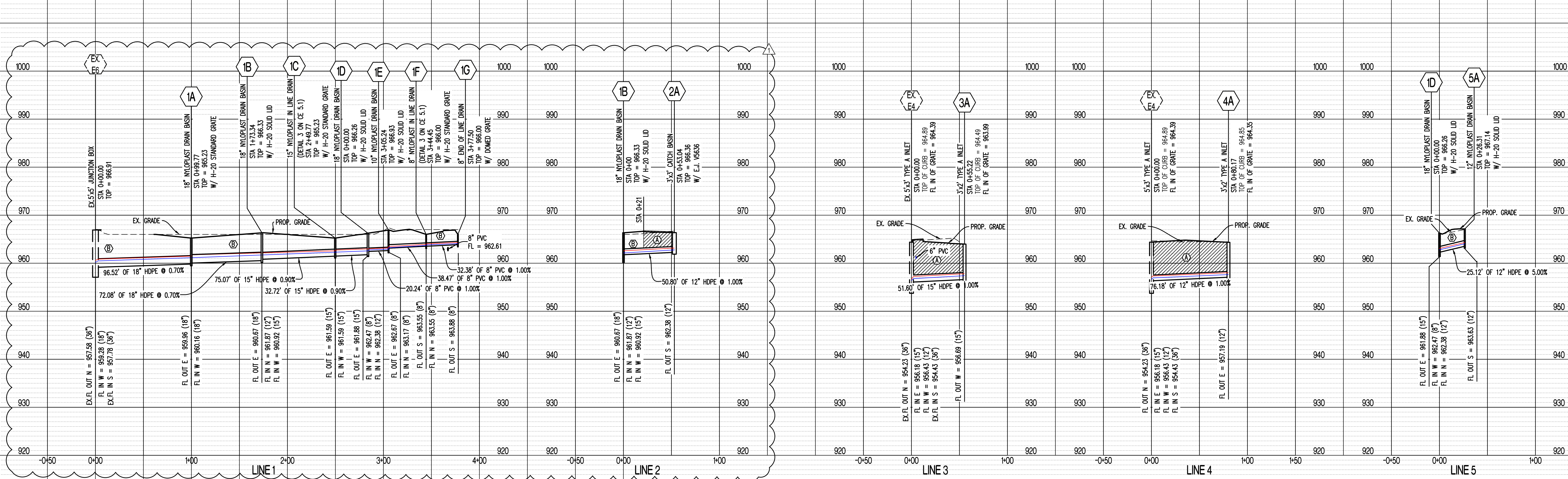
REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/02/2024
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY	
	
NATHAN THOMAS ECKHOFF MISSOURI PROFESSIONAL ENGINEER LICENSE NO. 200304960	
PREPARED BY: CROCKETT ENGINEERS & ARCHITECTS ENGINEERS, ARCHITECTS, PLANNERS 1000 N. WILSON BLVD., SUITE 200 COLUMBIA, MISSOURI 65203 (314) 487-0299 www.crockettengineering.com Missouri Certificate of Authority #000001001	
OWNER: DISCOVERY PARK LEE'S SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201	
<h1 style="margin: 0;">THE VILLAGE AT DISCOVERY</h1> <h2 style="margin: 0;">LOT 3</h2> <h3 style="margin: 0;">LEES SUMMIT, JACKSON COUNTY, MISSOURI</h3>	
DRAWING INCLUDES:	
UTILITY PLAN	
DESIGNED:	NTE
DRAWN:	NMD
PROJECT NO.:	230286
SHEET:	CE 41

SCALE:
HORIZ 1" = 50'
VERT 1" = 10'

LEGEND OF LABELS:
 (A) REFER TO PIPE EMBEDMENT DETAIL (UNDER PAVEMENT) ON SHEET CE 5.2.
 (B) REFER TO PIPE EMBEDMENT DETAIL (NOT UNDER PAVEMENT) ON SHEET CE 5.2.

GENERAL NOTES:
 1) ALL PORTIONS OF THIS STORM SEWER SHALL BE PRIVATE.
 2) LENGTHS AND SLOPES OF PIPE ARE MEASURED FROM EDGE OF STRUCTURE TO EDGE OF STRUCTURE.
 3) COMPACTED FILL SHALL BE PLACED TO A MINIMUM 18" ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.

25-YEAR STORM HYDRAULIC GRADE LINE
 100-YEAR STORM HYDRAULIC GRADE LINE



REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/02/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF
 PROFESSIONAL ENGINEER
 NUMBER PE-200304960
 MO LICENSE 200304960

PREPARED BY:
CROCKETT ENGINEERS & ARCHITECTS
 1000 N. Wilson Blvd., Ste. 200
 Columbia, Missouri 65203
 (314) 487-0292
 www.crockettingeering.com
 Crockett Engineering Consultants, LLC
 Missouri Certificate of Authority #000001001

OWNER:
 DISCOVERY PARK LEES SUMMIT, LLC
 4220 PHILLIPS FARM RD
 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 STORM PROFILE & DETAILS

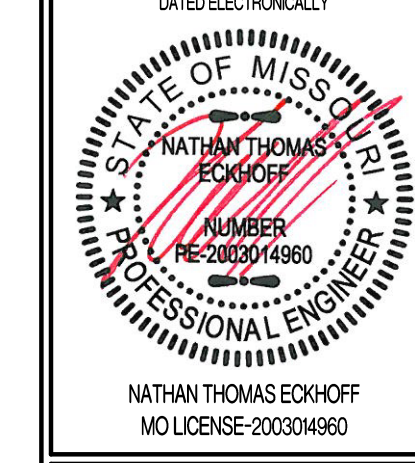
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET: CE 5.1

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\WAD Files\Construction Plans\230286 Lot 3 Storm Base.dwg

REVISIONS:

NO.	DATE
ORIGINAL	07/12/2024
REV. 1	08/02/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY



PREPARED BY:
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 ENGINEERS, ARCHITECTS & PLANNERS
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 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
LEES SUMMIT, JACKSON COUNTY, MISSOURI

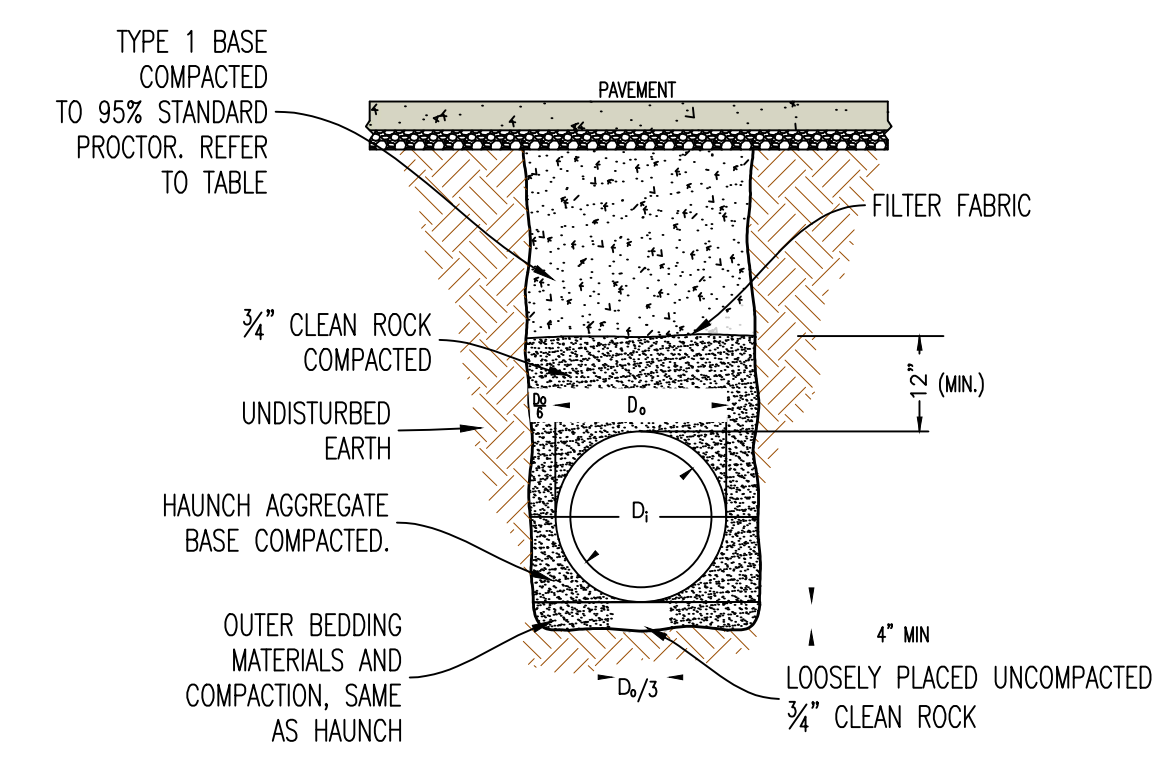
DRAWING INCLUDES:

STORM DETAILS CONTD

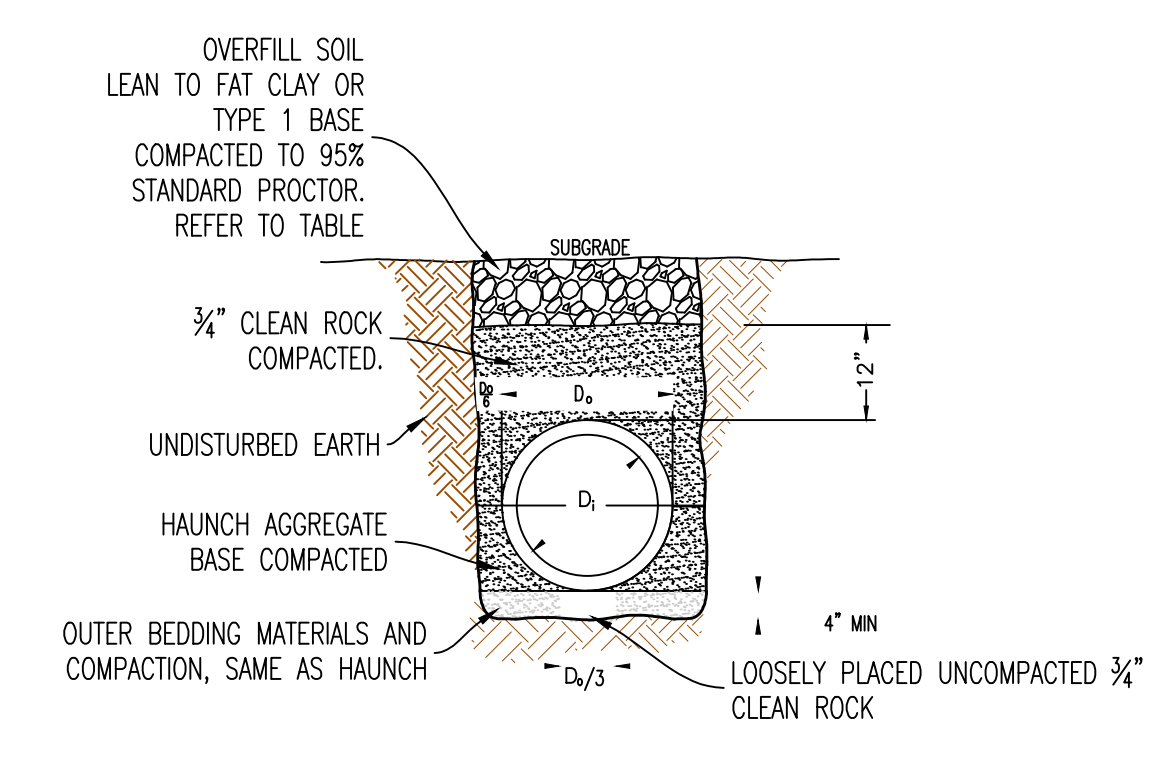
DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET: CE 52

STRUCTURAL FILL COMPACTION REQUIREMENTS

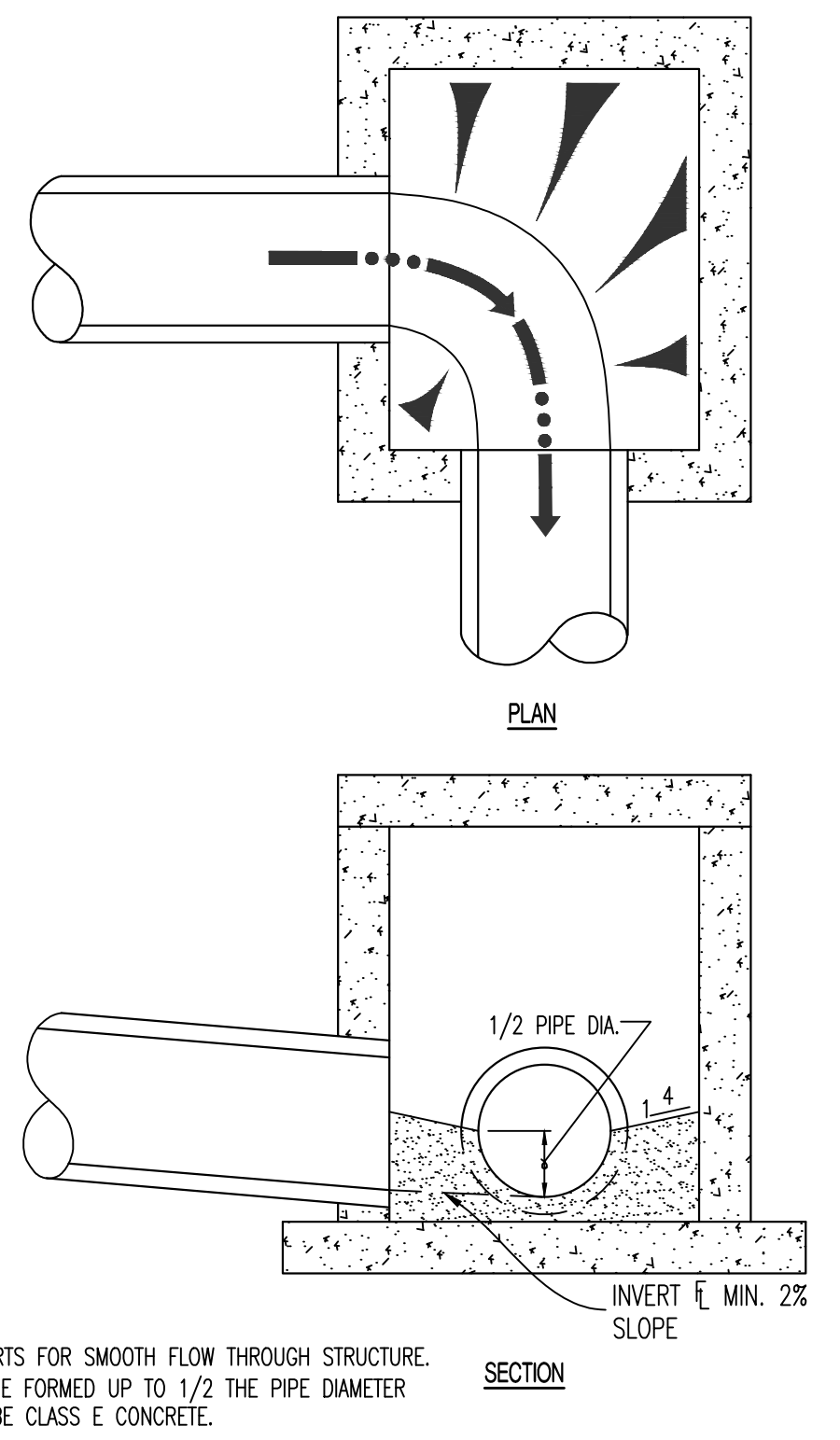
SOIL FILL THICKNESS	<ul style="list-style-type: none"> 9-INCHES OR LESS WHEN USING HEAVY SELF-PROPELLED COMPACTION EQUIPMENT 6-INCHES OR LESS WHEN USING HAND GUIDED OR LIGHT SELF-PROPELLED EQUIPMENT
COMPACTION MOISTURE CONTENT REQUIREMENTS	<ul style="list-style-type: none"> LEAN TO FAT CLAY AND FAT CLAY: 2% BELOW STANDARD PROCTOR OPTIMUM MOISTURE CONTENT (OMC) TO 4% ABOVE THE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT LEAN CLAY AND SILT: 2% BELOW TO 3% ABOVE STANDARD PROCTOR OMC GRANULAR: WORKABLE MOISTURE CONTENT AND SHALL NOT PUMP WHEN PROOF-ROLLED
COMPACTION REQUIREMENTS	<p>95% OF STANDARD PROCTOR DRY DENSITY (ASTM D-698)</p> <ol style="list-style-type: none"> WE RECOMMEND ENGINEERED FILL BE TESTED FOR MOISTURE CONTENT AND COMPACTION DURING PLACEMENT. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TEST SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS ARE ACHIEVED. AS STATED WITHIN ASTM D698, THIS PROCEDURE IS INTENDED FOR SOILS WITH 30% OR LESS MATERIAL LARGER THAN 3/4". ACCORDINGLY, WE RECOMMEND FULL TIME PROOF-ROLL OBSERVATION BE PERFORMED INSTEAD OF MOISTURE DENSITY TESTING FOR MATERIALS CONTAINING MORE THAN 30% AGGREGATE RETAINED ON THE 3/4" SIEVE.
	<ol style="list-style-type: none"> IF LIMESTONE SCREENINGS ARE USED AS NEW STRUCTURAL FILL, THE CONTRACTOR SHOULD BE AWARE THIS MATERIAL IS EXTREMELY SUSCEPTIBLE TO DEGRADATION UPON WETTING WHICH CAN RESULT IN DEEP-SEATED PUMPING AND RUTTING. LIMESTONE SCREENINGS THAT PUMP AND RUT ARE NOT ACCEPTABLE FOR USE AS NEW STRUCTURAL FILL OR FOR LOW VOLUME CHANGE MATERIAL AND WILL NEED TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.



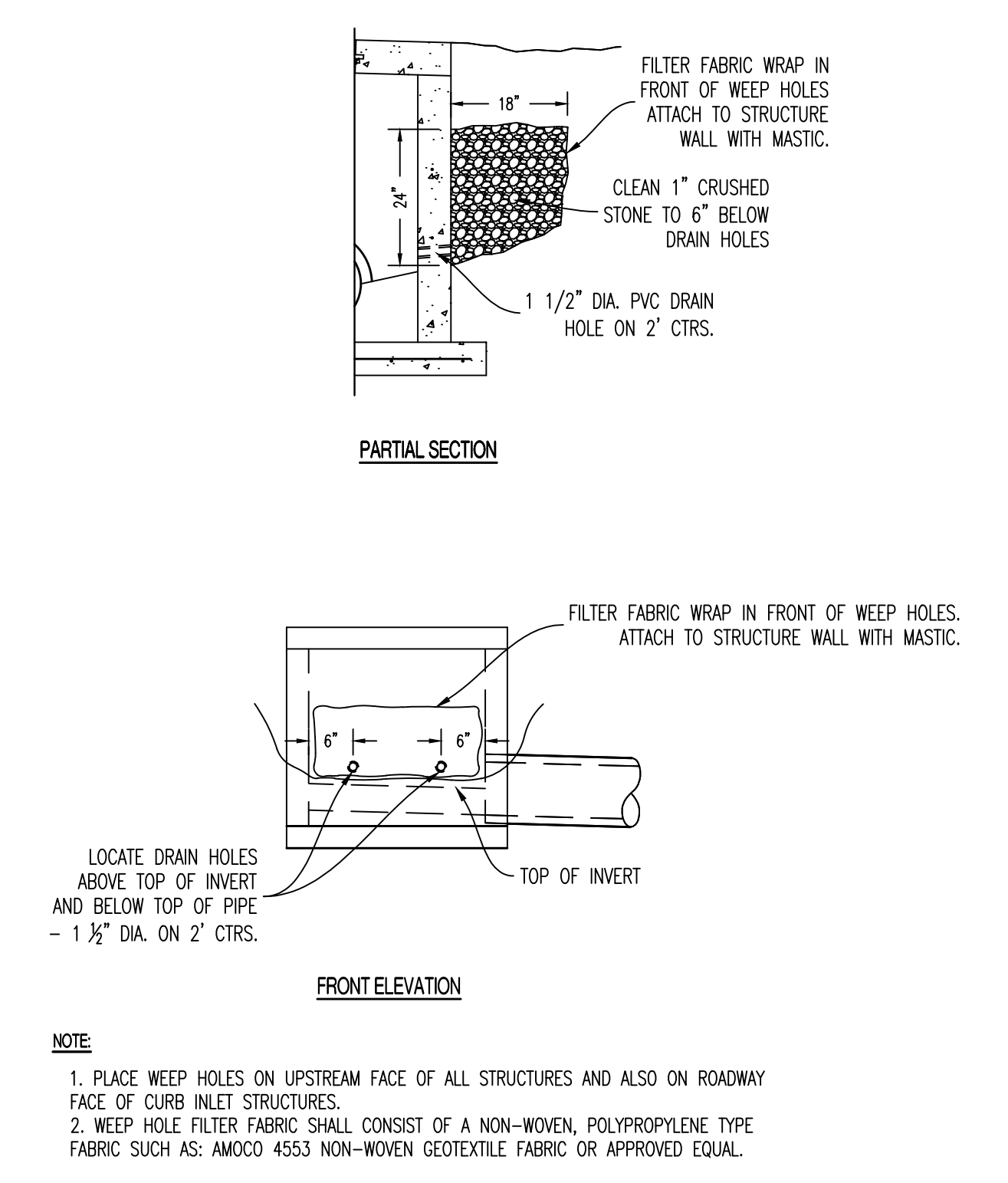
4 PIPE EMBEDMENT (UNDER PAVEMENT)



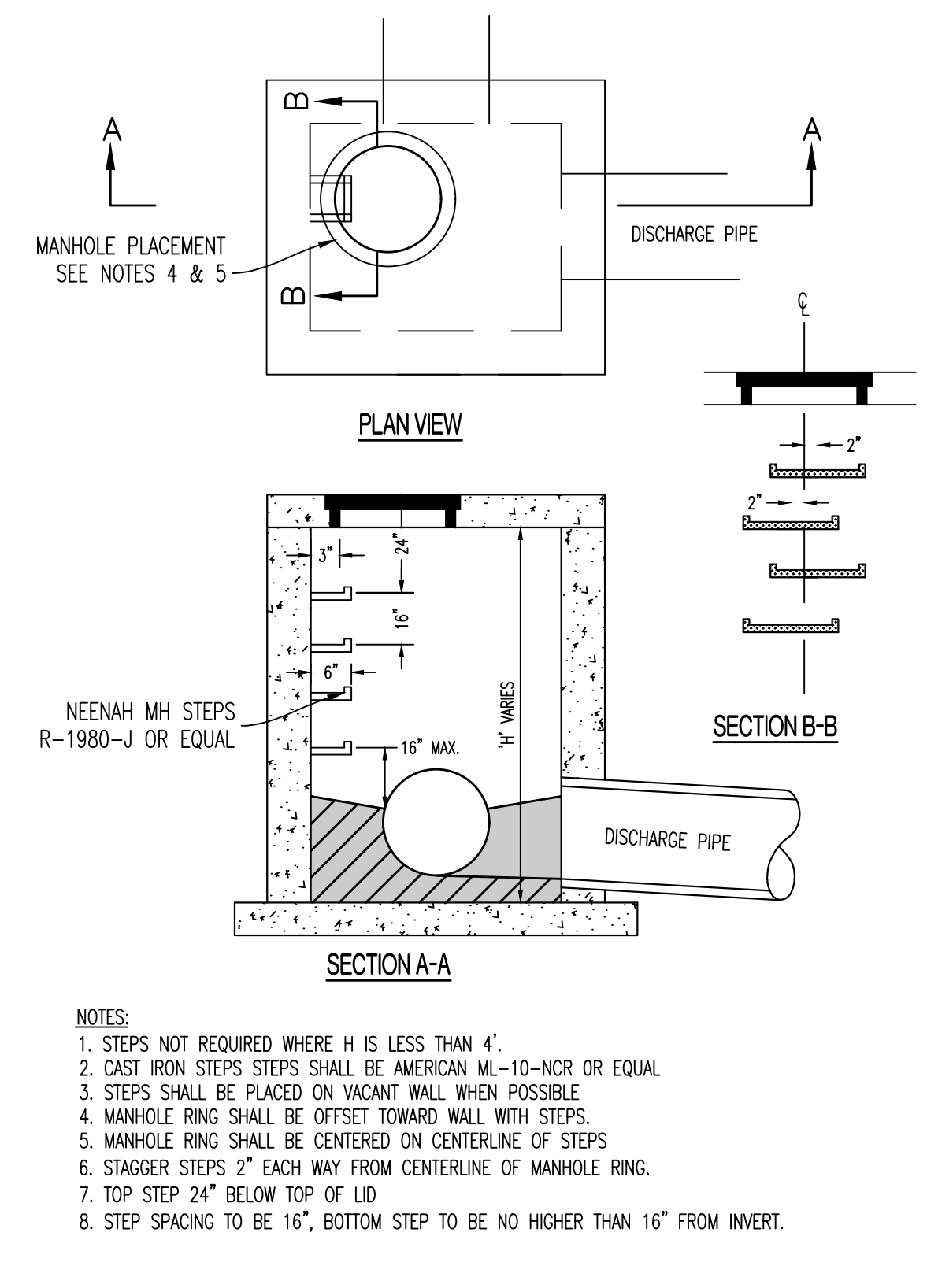
5 PIPE EMBEDMENT (NOT UNDER PAVEMENT)



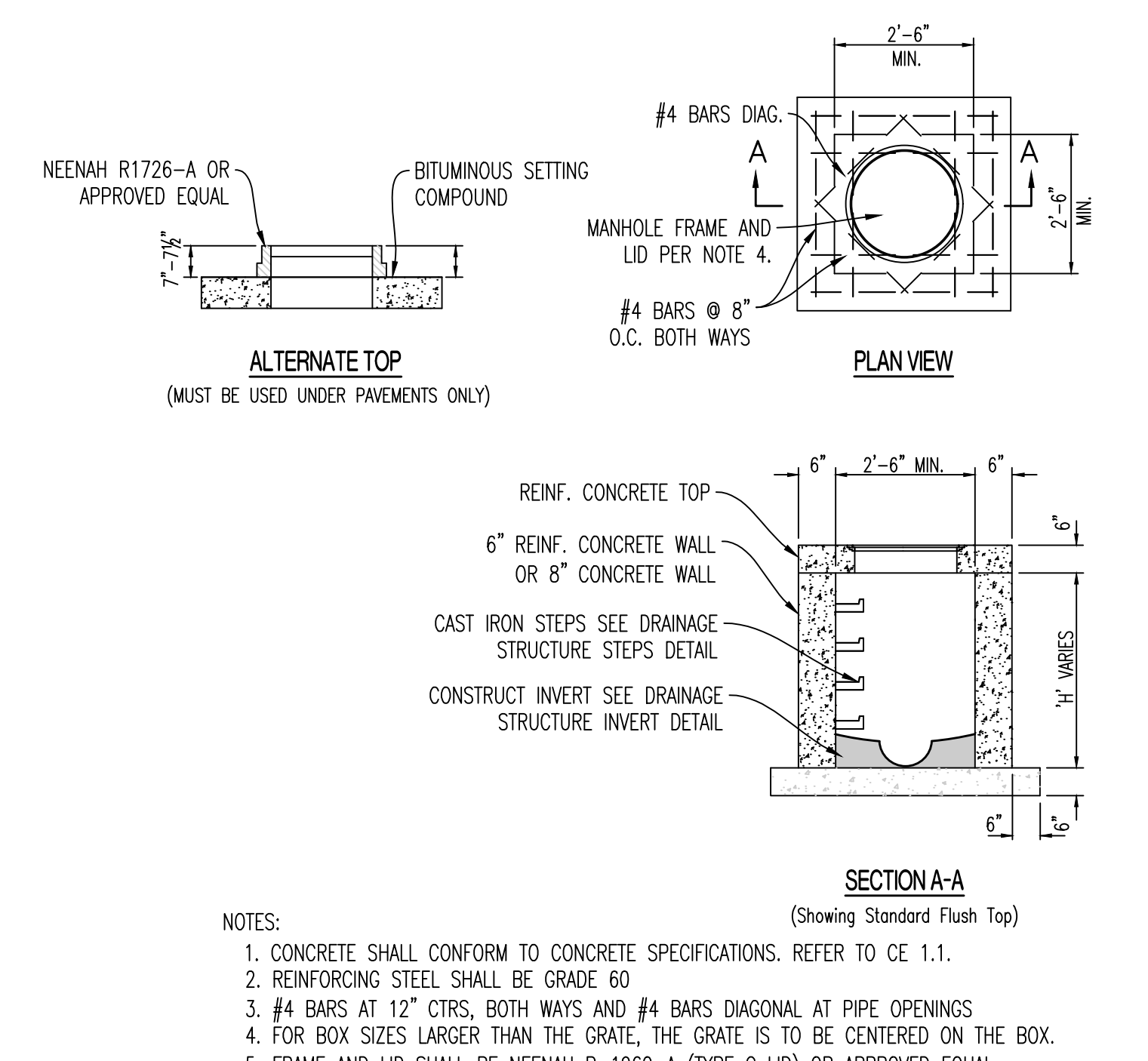
6 DRAINAGE STRUCTURE INVERT



7 DRAINAGE STRUCTURE WEEP HOLES



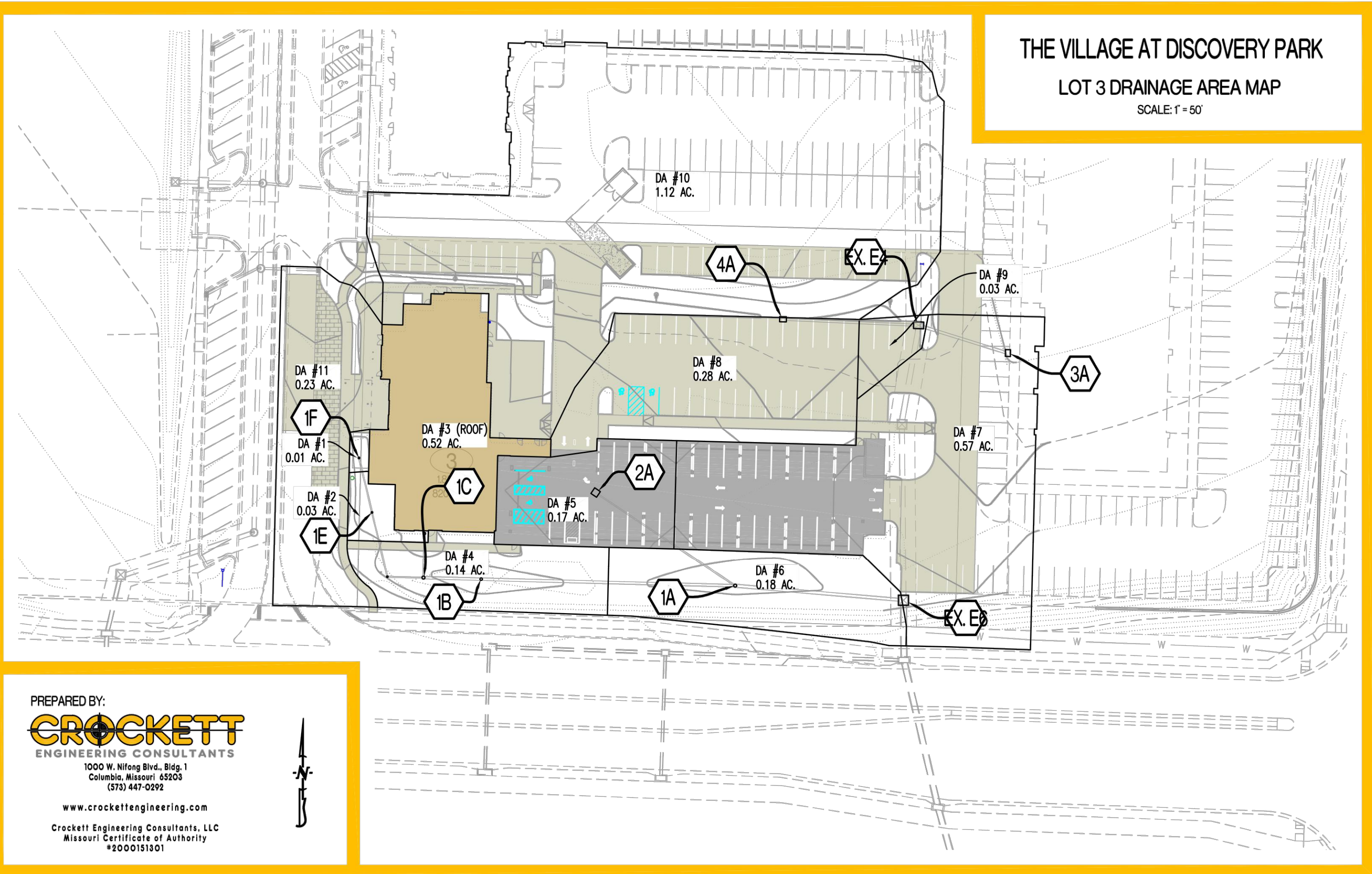
8 DRAINAGE STRUCTURE STEPS



9 JUNCTION BOX

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\A\A\0 Files\Construction Plans\230286 Lot 3 Storm Base.dwg

THE VILLAGE AT DISCOVERY PARK
LOT 3 DRAINAGE AREA MAP
SCALE: 1" = 50'



PREPARED BY:
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(314) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#000181501



PROJECT: The Village at Discovery Park - Lot 3
CALCULATED BY: NMD CHECKED BY: NTE
DATE: 07/12/24 PROJECT NO: 230286

STORM HYDROLOGY / GUTTER / INLET CALCULATIONS															
AREA NO.	STRUCTURE LABEL	INLET TYPE	TIME OF CONCENTRATION	OVERLAND FLOW HYDROLOGY				GUTTER AND INLET HYDRAULICS				NOTES			
				RUNOFF COEFFICIENT	AREA	CA	RUNOFF INTENSITY	RUNOFF	GUTTER FLOW	GUTTER SLOPE	WIDTH OF GUTTER		DEPTH OF GUTTER	THEORETICAL INLET CAPACITY	DESIGN INLET CAPACITY
min	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
1	IF	D.B.	-5	0.38	0.01	0.00	8.5	0.03				100	0.80	8' DOMED NYLOPLAST DRAIN W/ 10' HEAD	
2	IE	D.B.	-5	0.38	0.03	0.01	8.5	0.10				100	0.80	8' DOMED NYLOPLAST DRAIN W/ 10' HEAD	
3	IC	ROOF	-5	0.99	0.52	0.51	8.5	4.39						ROOF DRAIN COLLECTOR CONNECT TO 1C	
4	IB	D.B.	-5	0.89	0.14	0.12	8.5	1.06				4.70	3.76	15' DOMED NYLOPLAST DRAIN W/ 15' HEAD	
5	2A	C.B.	-5	0.55	0.17	0.09	8.5	0.80				15.30	12.24	3' X 3' EJ V5636 W/ 0.5' HEAD	
6	1A	D.B.	-5	0.38	0.18	0.07	8.5	0.58				6.94	5.55	18' DOMED NYLOPLAST W/ 15' HEAD	
7	3A	A	-5	0.89	0.57	0.51	8.5	4.33	4.43			9.80	7.84	TYPE A IN SUMP (PLUS BYPASS EX. E4)	
8	4A	A	-5	0.89	0.28	0.25	8.5	2.13				9.80	7.84	TYPE A IN SUMP	
9	EX. E4	EX. CURB	-5	0.89	0.03	0.03	8.5	0.23				0.16	0.13	0.10	TYPE A ON GRADE
10	EX. 1A	EX. DBL. A	-5	0.89	1.12	1.00	8.5	8.50						SEE VILLAGE AT DISCOVERY PARK - LOT 4 CALCS	
11	EX. K1	EX. D.B.	-5	0.89	0.23	0.20	8.5	1.75						SEE OLSSON PRIVATE SITE DEVELOPMENT CALCS	

REVISIONS:

NO.	DATE
ORIGINAL	07/12/2024

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(314) 447-0292
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Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#000181501

OWNER:
DISCOVERY PARK LEES SUMMIT LLC
4220 PHILLIPS FARM RD
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
25-YEAR STORM CALCULATIONS

DESIGNED: NTE
DRAWN: NMD
PROJECT NO: 230286
SHEET: CE 5.3

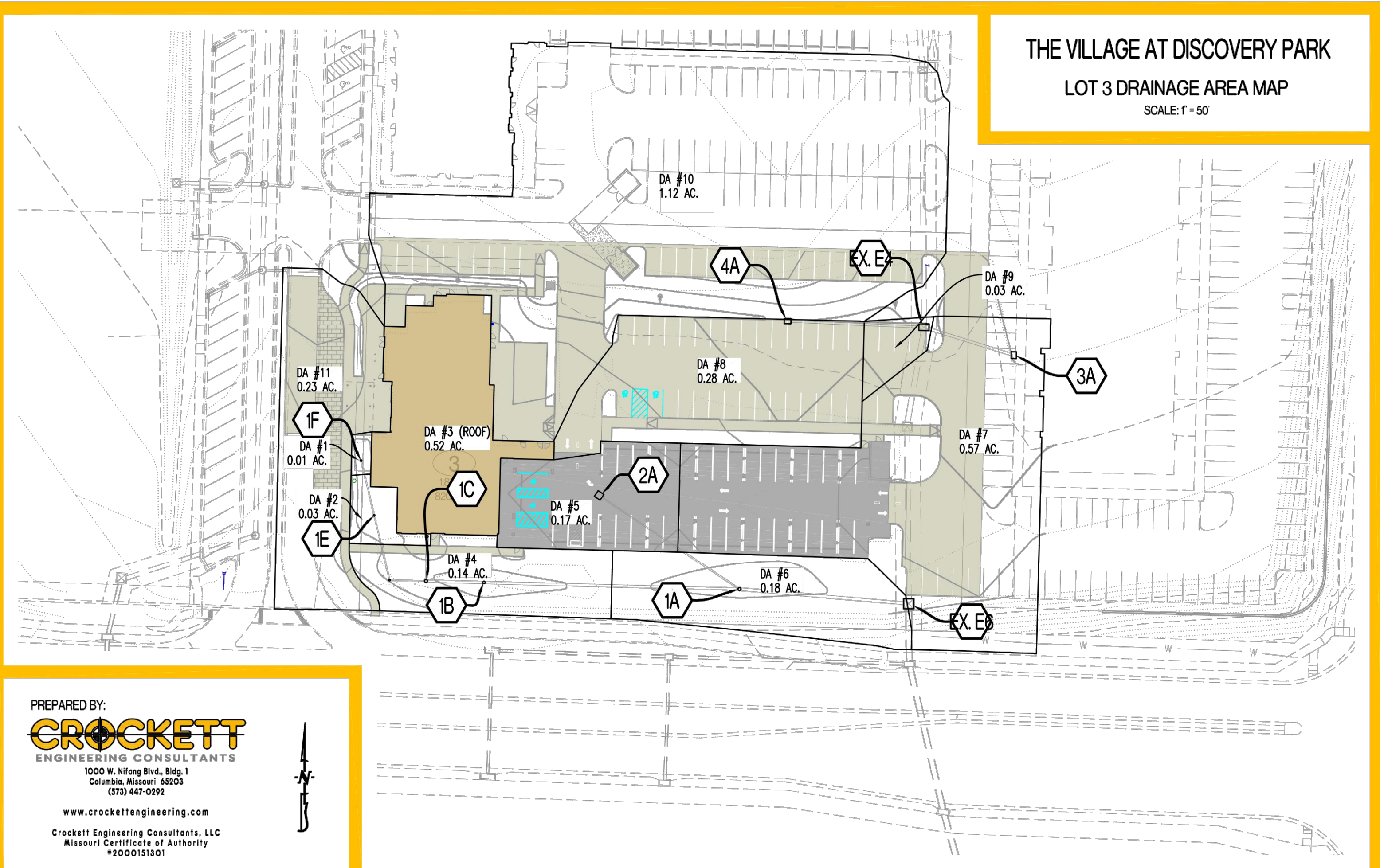


PROJECT: The Village at Discovery Park - Lot 3
CALCULATED BY: NMD CHECKED BY: NTE
DATE: 7/12/24 PROJECT NO: 230286

STORM DRAIN PIPE SIZE													
AREA NO.	UPSTREAM STRUCTURE LABEL	TIME OF CONCENTRATION	STORM DRAIN HYDRAULICS				NOTES						
			CA	RUNOFF INTENSITY	RUNOFF	STORM DRAIN SLOPE		STORM DRAIN CONDUIT	STORM DRAIN MATERIAL	CAPACITY	VELOCITY		
min	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
1	IF	-5	0.00	0.00	8.53	0.03	0.00	8	PVC	1.43	4.09		
2	IE	-5	0.01	0.02	8.53	0.13	0.00	8	PVC	1.43	4.09		
LINE 5	IC	-5	0.51	0.53	8.53	4.52	0.009	15	HDPE	6.64	5.41		
4	IB	-5	0.12	0.65	8.53	5.58	0.009	15	HDPE	6.64	5.41		
LINE 2 + DA 6	1A	-5	0.16	0.82	8.53	6.96	0.007	18	HDPE	9.52	5.39		
5	2A	-5	0.09	0.09	8.53	0.80	0.010	12	HDPE	3.86	4.91		
7	3A	-5	0.51	0.51	8.53	4.33	0.010	15	HDPE	6.99	5.70		
8	4A	-5	0.25	0.25	8.53	2.13	0.010	12	HDPE	3.86	4.91		
3	IC	-5	0.51	0.51	8.53	4.39	0.050	12	HDPE	8.63	10.99		
LINE 1 + LINE 3 + LINE 4 + DA 9	EX. E4	-5	1.60	1.60	8.53	13.65	0.013	36	HDPE	81.71	11.57	EX. 36' HDPE PER OLSSON PUBLIC STORM PLANS	
DA 10	EX. 1A	-5	1.00	1.00	8.53	8.50	0.025	18	HDPE	17.96	10.18	EX. 18' HDPE PER CROCKETT LOT 4 PLANS	
DA 11	EX. K1	-5	0.20	0.20	8.53	1.75	0.020	15	HDPE	9.89	8.06	EX. 15' HDPE PER OLSSON PRIVATE SITE PLANS	

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\A040 Files\Construction Plans\230286 Lot 3 Storm Base.dwg

THE VILLAGE AT DISCOVERY PARK
LOT 3 DRAINAGE AREA MAP
 SCALE: 1" = 50'



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PROJECT: The Village at Discovery Park - Lot 3
 CALCULATED BY: NMD CHECKED BY: NTE
 DATE: 07/12/24 PROJECT NO: 230286

STORM HYDROLOGY / GUTTER / INLET CALCULATIONS																		
AREAS	DESCRIPTION	OVERLAND FLOW HYDROLOGY					GUTTER AND INLET HYDRAULICS					NOTES						
		STRUCTURE LABEL	INLET TYPE	TIME OF TRAVEL (min)	CONCENTRATION	RUNOFF COEFFICIENT	AREA (acres)	CA	RUNOFF INTENSITY (in/hr)	RUNOFF (cfs)	GUTTER FLOW (cfs)		GUTTER SLOPE (ft/ft)	WIDTH OF GUTTER (ft)	DEPTH OF GUTTER (ft)	THEORETICAL INLET CAPACITY (cfs)	DESIGN INLET CAPACITY (cfs)	INLET BYPASS FLOW (cfs)
1	IF	D.B.	-5	0.38	0.01	0.00	10.3	0.04						100	0.80		8" DOMED NYLOPLAST DRAIN W/ 10' HEAD	
2	IE	D.B.	-5	0.38	0.03	0.01	10.3	0.12						100	0.80		8" DOMED NYLOPLAST DRAIN W/ 10' HEAD	
3	IC	ROOF	-5	0.99	0.52	0.51	10.3	5.31									ROOF DRAIN COLLECTOR CONNECT TO IC	
4	IB	D.B.	-5	0.99	0.14	0.14	10.3	1.43							4.70	3.76	15' DOMED NYLOPLAST DRAIN W/ 15' HEAD	
5	2A	C.B.	-5	0.63	0.17	0.11	10.3	1.10							15.30	12.24	3' X 3' EJ V5636 W/ 0.5' HEAD	
6	1A	D.B.	-5	0.38	0.18	0.07	10.3	0.71							6.94	5.55	18' DOMED NYLOPLAST W/ 15' HEAD	
7	3A	A	-5	0.99	0.57	0.56	10.3	5.82	6.00						9.80	7.84	TYPE A IN SUMP (PLUS BYPASS EX. E4)	
8	4A	A	-5	0.99	0.28	0.28	10.3	2.86							9.80	7.84	TYPE A IN SUMP	
9	EX. E4	EX. CURB	-5	0.99	0.03	0.03	10.3	0.31							0.16	0.13	0.18	TYPE A ON GRADE
10	EX. 1A	EX. DBL. A	-5	0.99	1.12	1.11	10.3	11.44										SEE VILLAGE AT DISCOVERY PARK - LOT 4 CALCS
11	EX. K1	EX. D.B.	-5	0.99	0.23	0.23	10.3	2.35										SEE OLSSON PRIVATE SITE DEVELOPMENT CALCS

REVISIONS:

NO.	DATE
ORIGINAL	07/12/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF
 MISSOURI PROFESSIONAL ENGINEER
 MO LICENSE: 2003014660

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 COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
 LEES SUMMIT, JACKSON COUNTY, MISSOURI



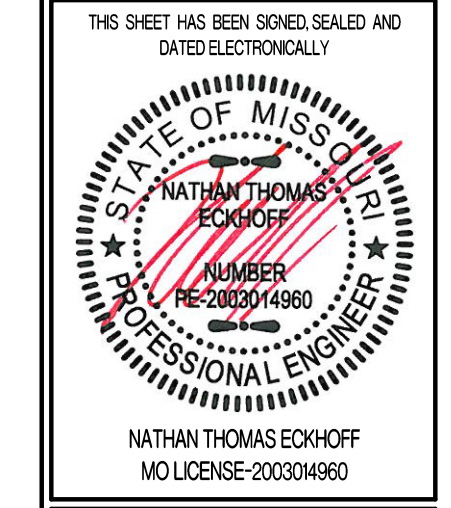
PROJECT: The Village at Discovery Park - Lot 3
 CALCULATED BY: NMD CHECKED BY: NTE
 DATE: 7/12/24 PROJECT NO: 230286

STORM DRAIN PIPE SIZE													
AREAS	DESCRIPTION	UPSTREAM STRUCTURE LABEL	STORM DRAIN HYDRAULICS										NOTES
			TIME OF TRAVEL (min)	CONCENTRATION	RUNOFF COEFFICIENT	AREA (acres)	CA	RUNOFF INTENSITY (in/hr)	RUNOFF (cfs)	STORM DRAIN SLOPE (ft/ft)	STORM DRAIN DIAMETER (in)	STORM DRAIN MATERIAL	
LINE 1													
1	IF	-5	0.00	0.00	10.32	0.04	0.010	8	PVC	1.43	4.09		
2	IE	-5	0.01	0.02	10.32	0.16	0.010	8	PVC	1.43	4.09		
LINE 5													
3	IC	-5	0.51	0.53	10.32	5.47	0.009	15	HDPE	6.84	5.41		
4	IB	-5	0.14	0.67	10.32	6.90	0.009	15	HDPE	6.84	5.41		
LINE 2 + DA 6													
6	1A	-5	0.17	0.84	10.32	8.70	0.007	18	HDPE	9.52	5.39		
LINE 2													
5	2A	-5	0.11	0.11	10.32	1.10	0.010	12	HDPE	3.86	4.91		
LINE 3													
7	3A	-5	0.56	0.56	10.32	5.82	0.010	15	HDPE	6.99	5.70		
LINE 4													
8	4A	-5	0.28	0.28	10.32	2.86	0.010	12	HDPE	3.86	4.91		
LINE 5													
3	IC	-5	0.51	0.51	10.32	5.31	0.050	12	HDPE	8.63	10.99		
EX. STORM													
LINE 1 + LINE 3 + LINE 4 + DA 6													
DA 10	EX. E4	-5	1.71	1.71	10.32	17.69	0.013	36	HDPE	91.71	15.7		EX. 36" HDPE PER OLSSON PUBLIC SITE DEVELOPMENT PLANS
DA 10	EX. 1A	-5	1.11	1.11	10.32	11.44	0.025	19	HDPE	17.98	10.19		EX. 18" HDPE PER CROCKETT LOT 4 PLANS
DA 11	EX. K1	-5	0.23	0.23	10.32	2.35	0.020	15	HDPE	9.89	8.06		EX. 15" HDPE PER OLSSON PRIVATE SITE PLANS

DRAWING INCLUDES:
 100-YEAR STORM CALCULATIONS

DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET: CE 5.4

REVISIONS:	
NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/02/2024



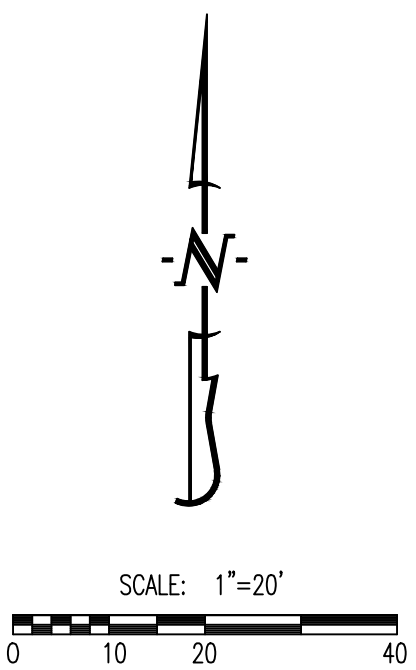
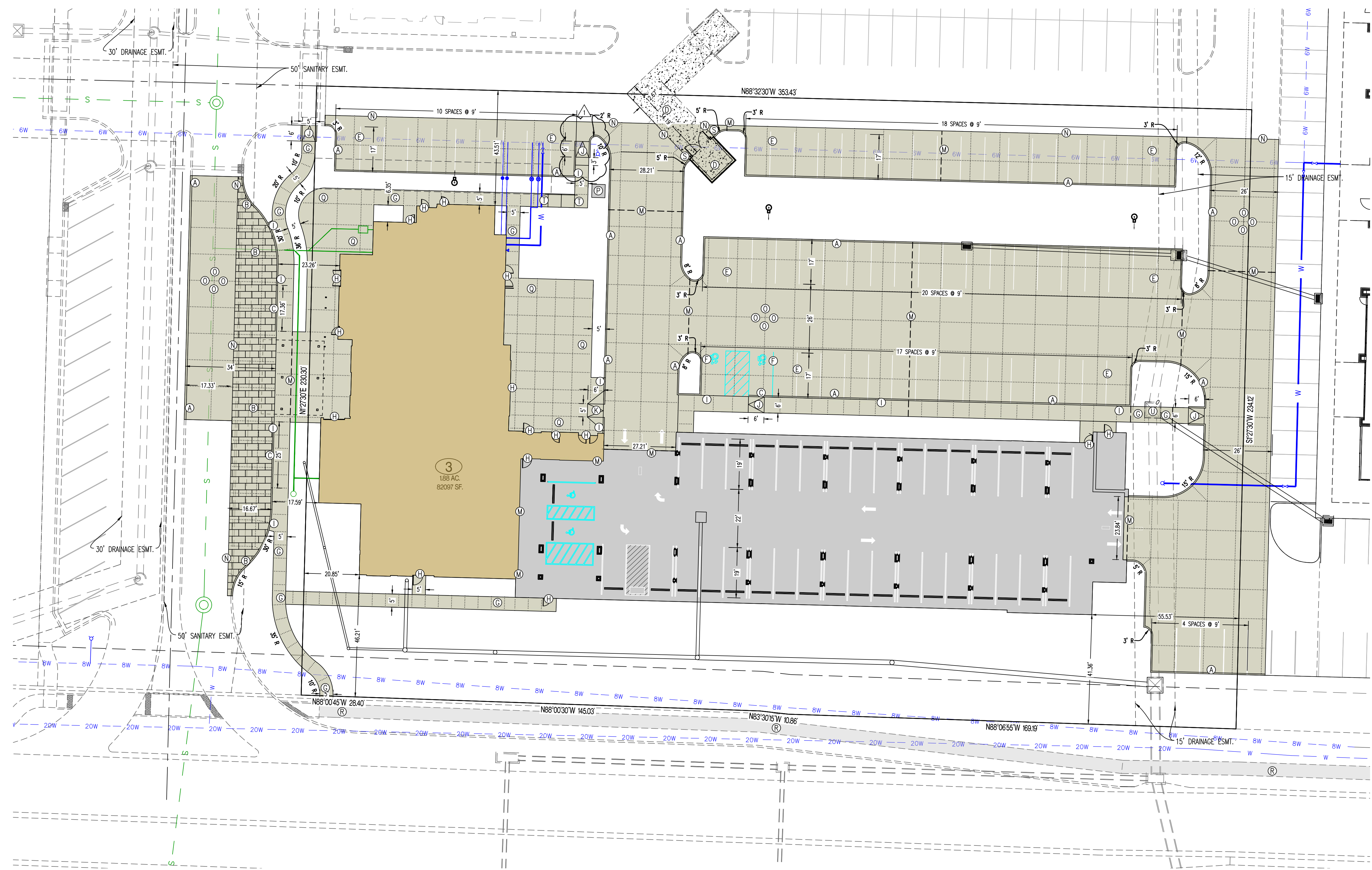
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THE VILLAGE AT DISCOVERY LOT 3 LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
 SITE PLAN

DESIGNED: NTE
 DRAWN: NMD
 PROJECT NO: 230286
 SHEET:
 CE 6.1



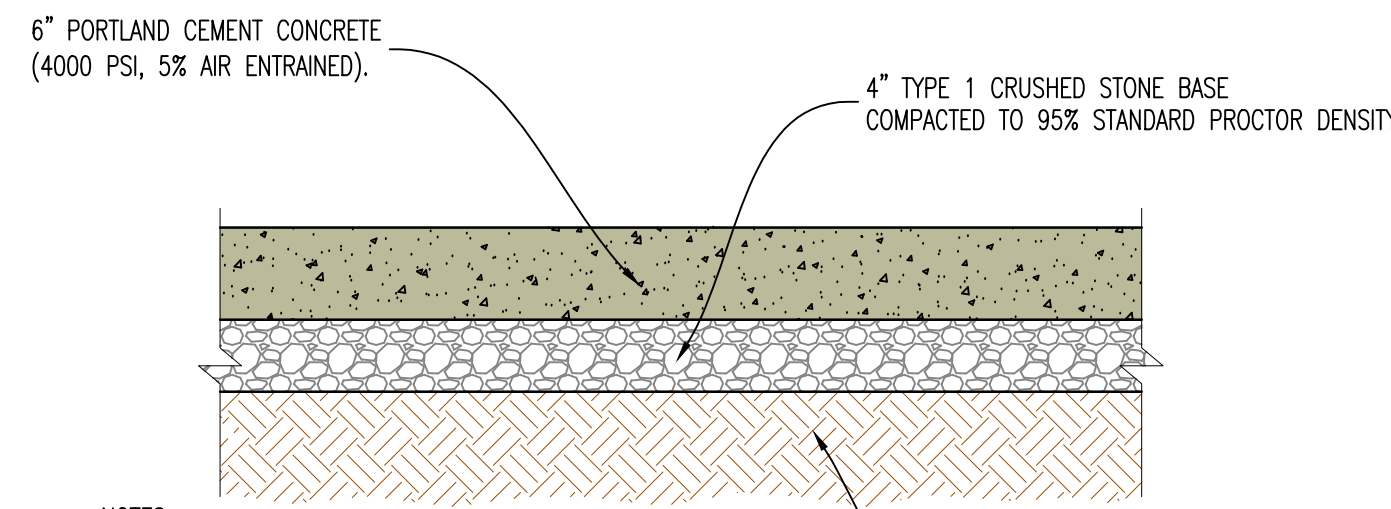
PARKING CALCULATIONS	
PARKING SUMMARY (LOT 4):	
SPACES REQUIRED: HOTEL OR MOTEL WITH NO RESTAURANT OR LOUNGE; OR WITH A RESTAURANT OR LOUNGE PROVIDED FOR GUESTS ONLY - 1 PER ROOM	
STANDARD SPACES REQUIRED:	126 SPACES
HANDICAP SPACES REQUIRED:	5 SPACES
SPACES PROVIDED:	
STANDARD SPACES PROVIDED:	105 SPACES
HANDICAP SPACES PROVIDED:	4 SPACES
EXISTING ADJACENT SPACES PROVIDED:	43 SPACES
EXISTING ADJACENT HANDICAP SPACES PROVIDED:	1 SPACES
TOTAL SPACES PROVIDED:	148 SPACES

LEGEND OF LABELS	
(A)	CONSTRUCT LIGHT DUTY CONCRETE W/ INTEGRAL CURB AS SHOWN. REFER TO DETAIL 1 & 2 ON CE 7.1.
(B)	CONSTRUCT DECORATIVE LIGHT DUTY CONCRETE W/ INTEGRAL CURB AS SHOWN. CONTRACTOR TO COORDINATE WITH OWNER FOR COLOR/STAMPING PATTERN. REFER TO DETAIL 1 & 2 ON CE 7.1.
(C)	TRANSITION FROM 6" CURB TO 0" CURB. REFER TO CE 3.0-CE 3.4.
(D)	DUMPSTER PAD AREA W/ INTEGRAL CURB AS SHOWN. REFER DETAIL 7 ON CE 7.1. REFER TO ARCHITECTURAL PLANS FOR PROPOSED DUMPSTER ENCLOSURE DETAILS. POUR DUMPSTER PAD APPROACH FOR LOT 3 AND LOT 4 CONCURRENTLY.
(E)	PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE (TYPICAL) ALL STALLS EXCEPT ADA ACCESSIBLE STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.
(F)	CONSTRUCT ADA ACCESSIBLE PARKING AREA WITH SIGNAGE AND ADA RAMPS. PAINT 4" STRIPE AND ACCESSIBLE SYMBOL, COLOR BLUE. PAINT HATCH AREA AS SHOWN, COLOR BLUE. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE STALLS SHALL NOT EXCEED 1:50. REFER TO DETAIL 8 ON CE 7.2.
(G)	CONSTRUCT 4" THICK, PCC WALK PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER DETAIL 5 ON CE 7.1.
(H)	CONSTRUCT THICKENED EDGE SIDEWALK/PAVEMENT ABUTTING BUILDING PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER TO DETAIL 4 ON CE 7.1.
(I)	CONSTRUCT THICKENED EDGE SIDEWALK WALK AT BACK OF CURB PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER TO DETAIL 4 ON CE 7.1.
(J)	CONSTRUCT ADA ACCESSIBLE SIDEWALK RAMP AT BACK OF CURB. REFER TO DETAIL 8 ON CE 7.1.
(K)	CONSTRUCT ADA ACCESSIBLE SIDEWALK RAMP WITH FLARE AT BACK OF CURB. REFER TO DETAIL 9 ON CE 7.1.
(L)	REMOVED.
(M)	INSTALL TYPE A OR TYPE A ALTERNATE EXPANSION JOINT IN PAVING. REFER TO DETAIL 6 ON CE 7.1.
(N)	INSTALL TYPE B CONSTRUCTION JOINT WHERE PROPOSED CONCRETE PAVING ABUTS EXISTING CONCRETE PAVING. REFER TO DETAIL 6 ON CE 7.1.
(O)	INSTALL TYPE C SAW JOINT IN PAVEMENT, MAXIMUM 12'X12' SQUARES (TYPICAL). REFER TO DETAIL 6 ON CE 7.1.
(P)	PROPOSED TRANSFORMER PAD. COORDINATE WITH M.E.P. FOR EXACT SIZE AND LOCATION.
(Q)	PROPOSED PATIO AREA. CONSTRUCT 4" THICK, PCC. REFER TO DETAIL 5 ON CE 7.1. REFER TO ARCHITECTURAL PLANS FOR DECORATIVE PATTERNS.
(R)	5' STREET-SIDE SIDEWALK TO BE CONSTRUCTED PER SEPARATE PLANS. REFER TO OLSSON PLANS TITLED "THE VILLAGE AT DISCOVERY PARK COLBERN ROAD AND DOUGLAS STREET PUBLIC ROAD IMPROVEMENTS" DATED 07/23/2023.
(S)	INSTALL PIPE BOLLARD AS SHOWN. REFER TO DETAIL 11 ON CE 7.2.
(T)	INSTALL PCC STAIRS WITH HANDRAIL IN SIDEWALK. REFER TO DETAIL 12 ON CE 7.2 REFER TO CE 3.0-CE 3.4 FOR ELEVATIONS.
(U)	INSTALL REINFORCING AT EXISTING DRAINAGE STRUCTURE IN SIDEWALK. REFER TO DETAIL 13 ON CE 7.2.

- GENERAL NOTES:**
- ALL ACCESSIBLE PARKING SHALL COMPLY WITH THE REQUIREMENTS OF THE FEDERAL AMERICANS WITH DISABILITIES ACT.
 - THE PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.
 - ALL PAVEMENT JOINTS ADJACENT TO EXISTING PAVEMENT SHALL BE A CONTINUATION OF THE EXISTING JOINT.
 - REFER TO ARCHITECTURAL PLANS FOR PARKING GARAGE LAYOUT. PARKING GARAGE PAVEMENT SHALL MATCH CROSS SECTION OF EXTERIOR PARKING LOTS.

CALCULATIONS: LOT 7		
LAND AREA:		
TOTAL LAND AREA:		1.88 AC
BUILDING DETAILS:		
1ST FLOOR:	8,976 SQ.FT.	
2ND FLOOR:	23,009 SQ.FT.	
3RD FLOOR:	23,009 SQ.FT.	
4TH FLOOR:	23,009 SQ.FT.	
TOTAL S.F. (4-STORIES)	78,003 SQ.FT.	
LOT COVERAGES:		
NET LAND AREA:	82,097 SQ.FT.	100%
TOTAL IMPERVIOUS SURFACE AREA:	57,525 SQ.FT.	70%
TOTAL OPEN SPACE:	10,080 SQ.FT.	30%
FLOOR AREA RATIO:		95%

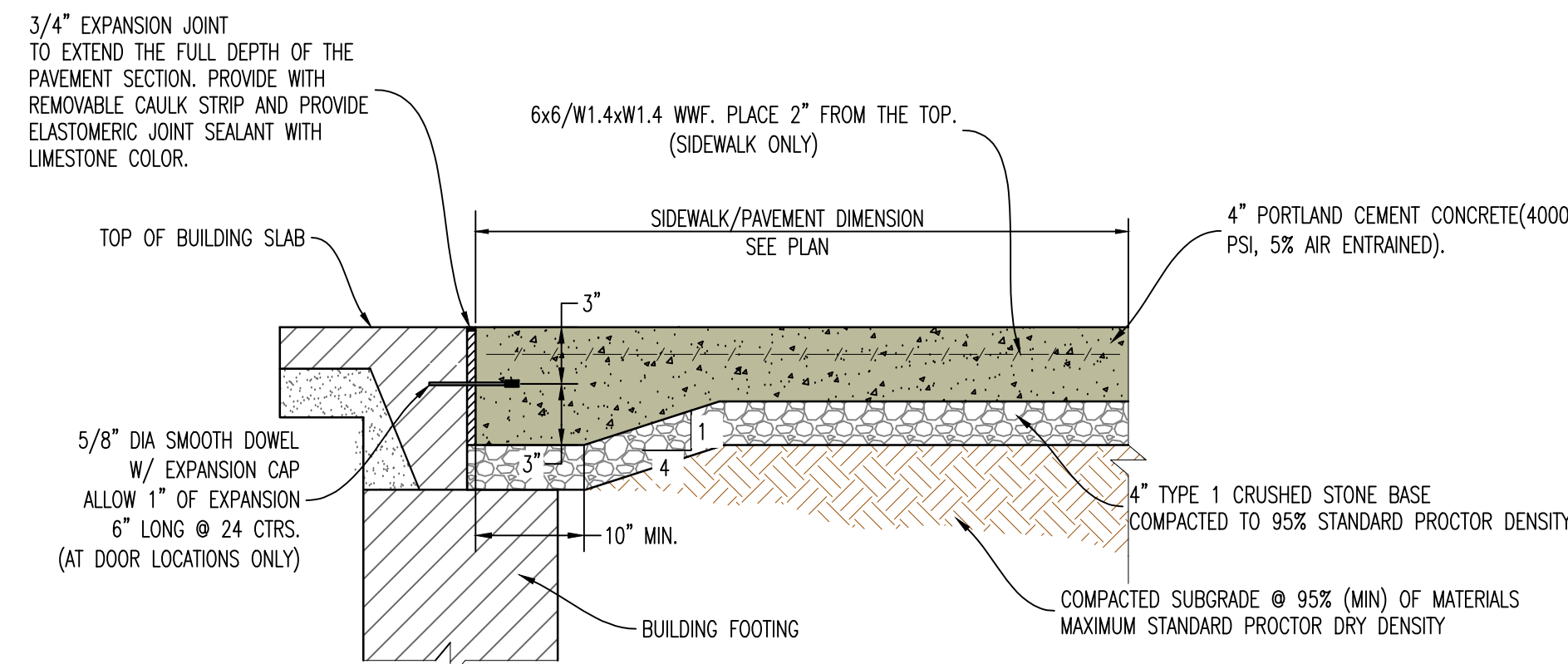
Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\ACAD Files\Construction Plans\230286 Lot 3 Site Base.dwg



NOTES:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

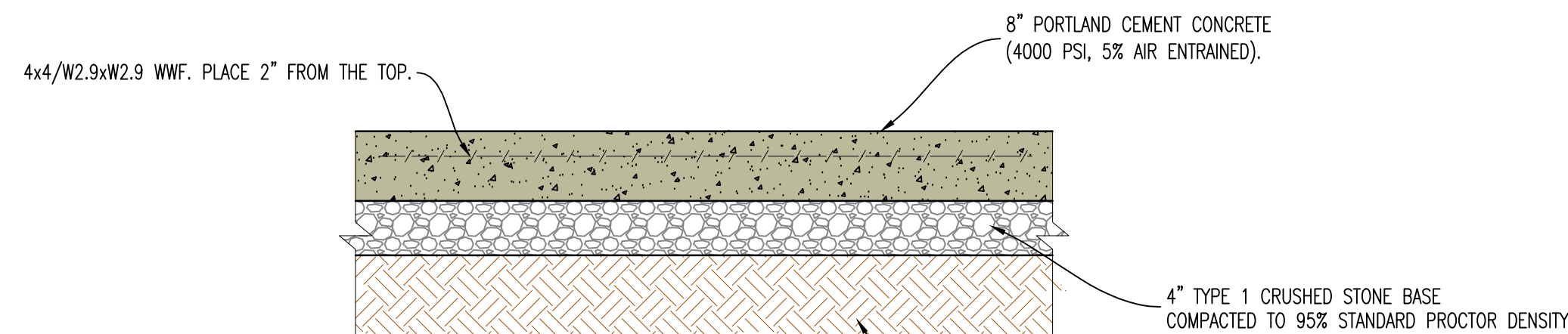
1 LIGHT DUTY CONCRETE PAVEMENT CROSS-SECTION



NOTES:
ALL LOW VOLUME CHANGE MATERIAL IN LOCATIONS OF SIDEWALK/PAVEMENT PLACED NEXT TO BUILDING IS TO BE REMOVED COMPLETELY AND REPLACED WITH TYPE 1 CRUSHED STONE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO SIDEWALK/PAVEMENT INSTALLATION. JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

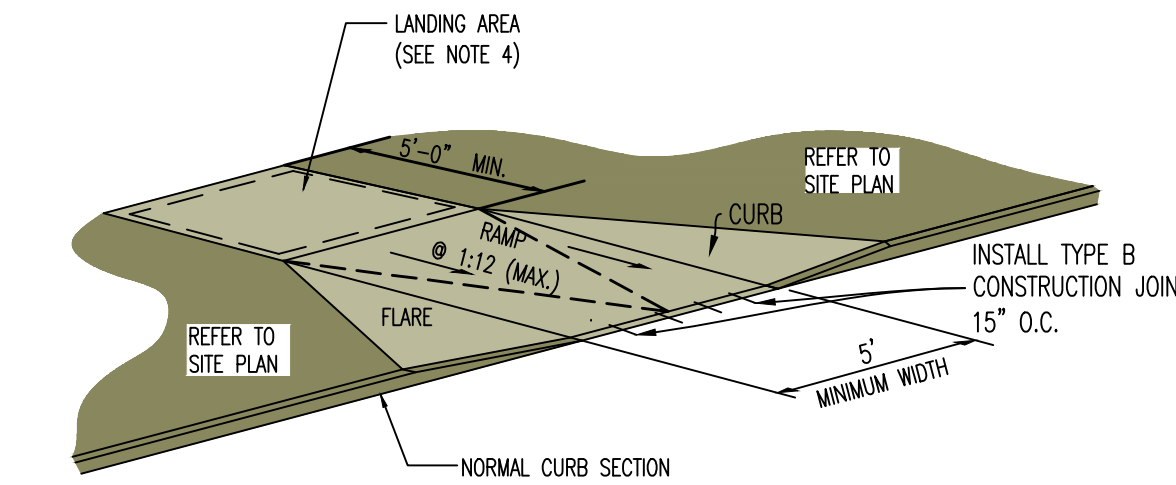
4 SIDEWALK/PAVEMENT ABUTTING BUILDING



NOTES:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

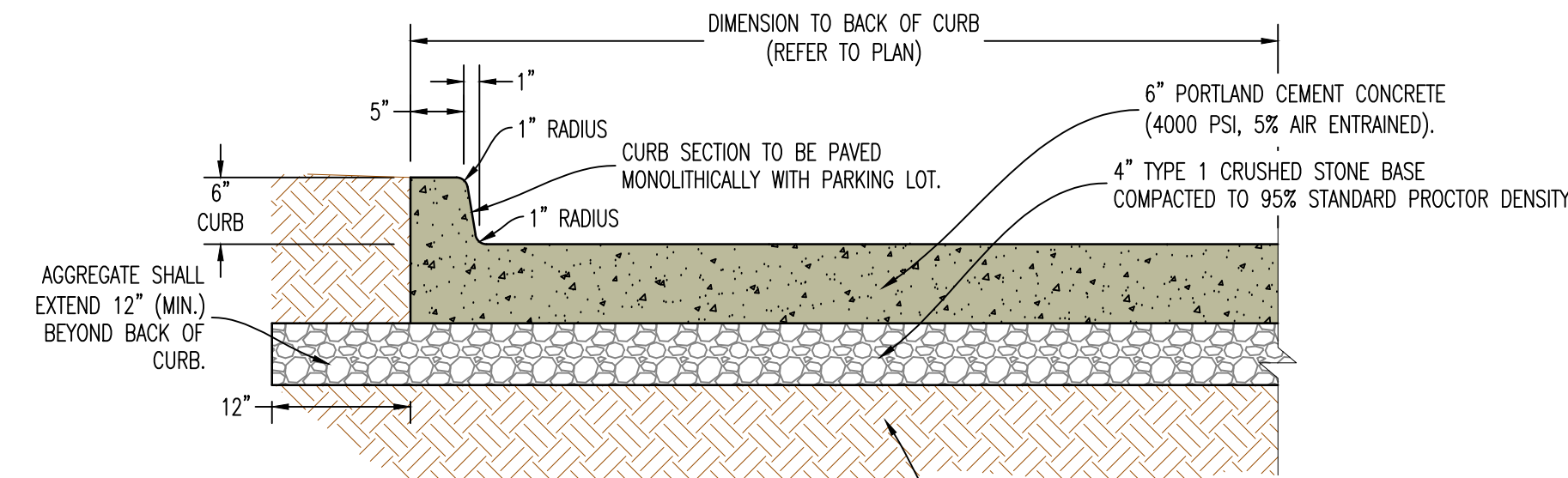
ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

7 HEAVY DUTY CONCRETE PAVEMENT CROSS-SECTION (REINFORCED)



NOTES:
1. RAMP SHALL BE 6" THICK (MIN.) PCC CONCRETE WITH 6X6/W1.4XW1.4 WWF. PLACE 2" FROM THE TOP.
2. CURB RAMP SHALL NOT HAVE A RISE GREATER THAN 0.5'.
3. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE. REFER TO GRADING PLAN.
4. MAIN LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
5. FLARE SLOPE NOT TO EXCEED 1:10.
6. ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

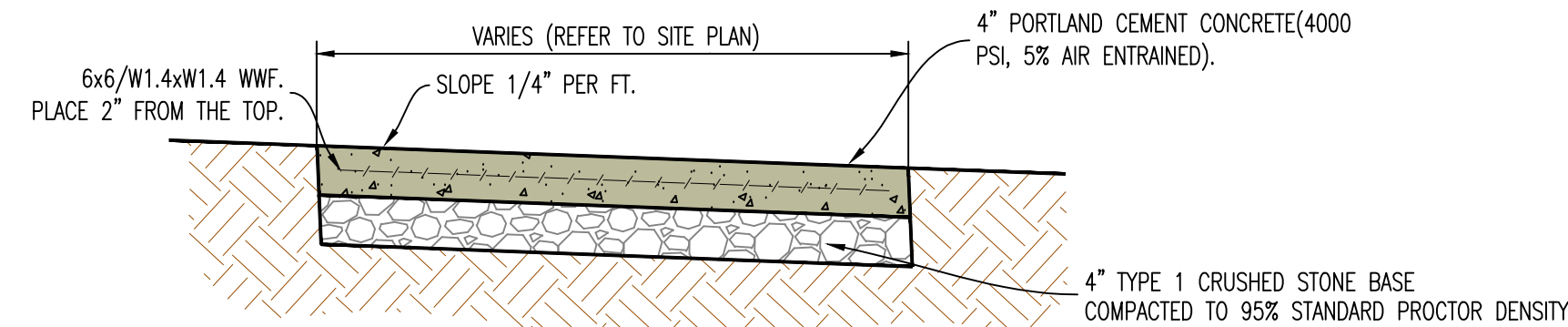
9 SIDEWALK RAMP WITH CURB AND FLARE



NOTES:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

2 6" CONCRETE BARRIER CURB CROSS-SECTION

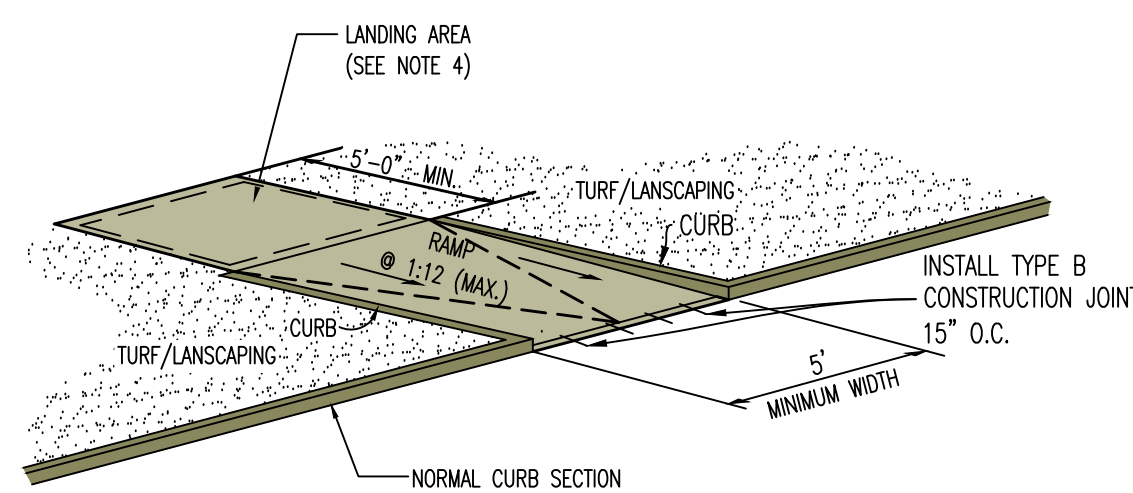


NOTE:
1. INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, AND DRIVEWAY APPROACHES. MAX. EXPANSION JOINT SPACING = 150'

2. INSTALL TRANSVERSE SAW JOINTS AT SPACING = SIDEWALK WIDTH. JOINT SEALER TO BE NON-BITUMINOUS (COLOR GRAY)

3. ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

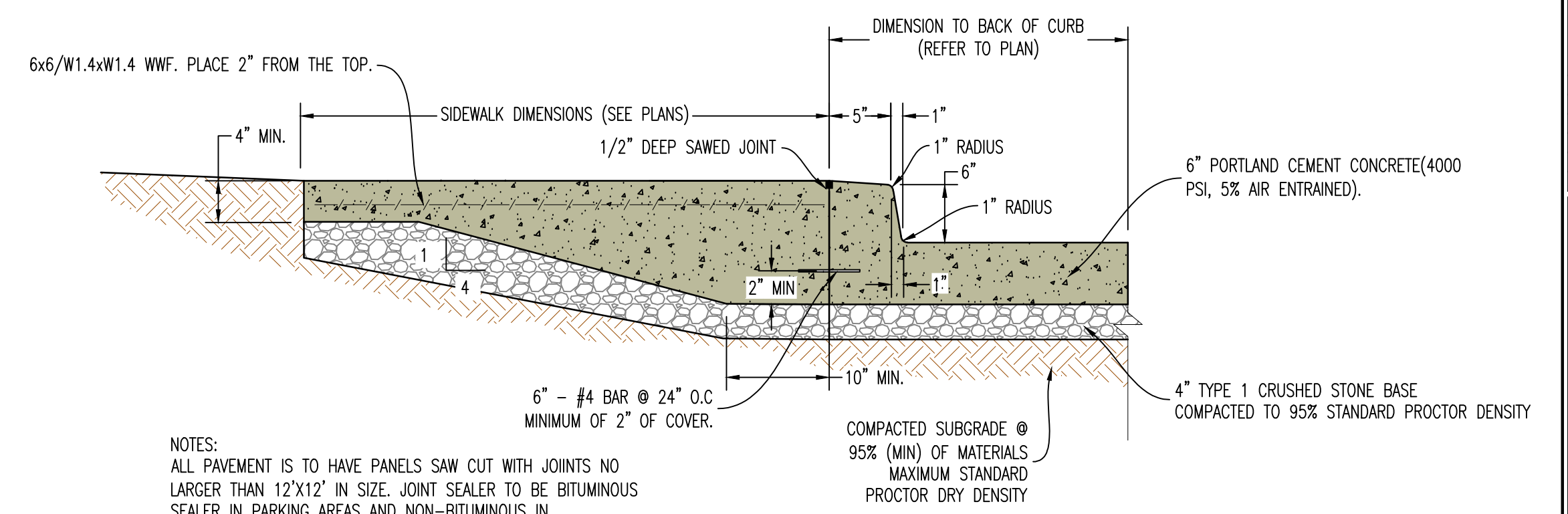
5 TYPICAL CONCRETE SIDEWALK



NOTES

1. RAMP SHALL BE 6" THICK (MIN.) PCC CONCRETE WITH 6X6/W1.4XW1.4 WWF. PLACE 2" FROM THE TOP.
2. CURB RAMP SHALL NOT HAVE A RISE GREATER THAN 0.5'.
3. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE. REFER TO GRADING PLAN.
4. MAIN LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
5. ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

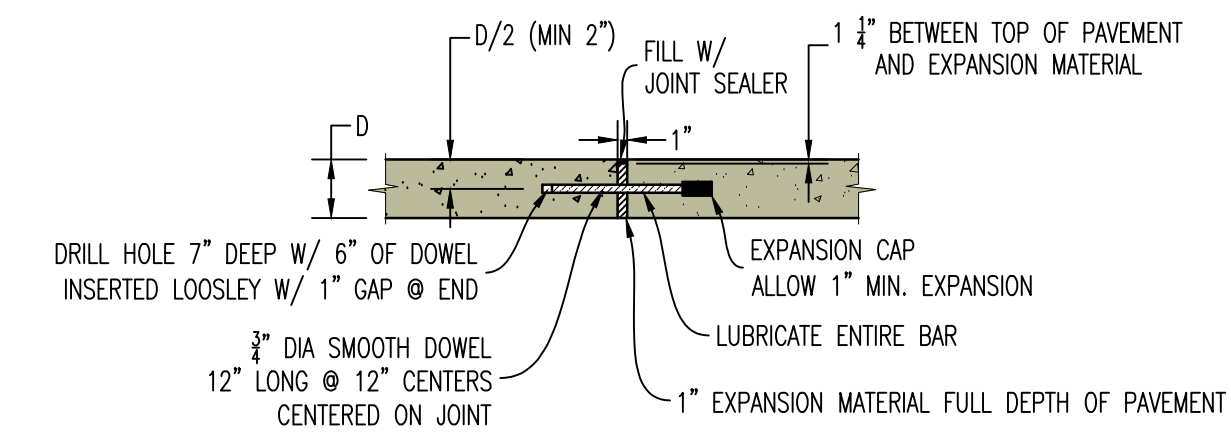
8 SIDEWALK RAMP WITH CURB



NOTES:
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

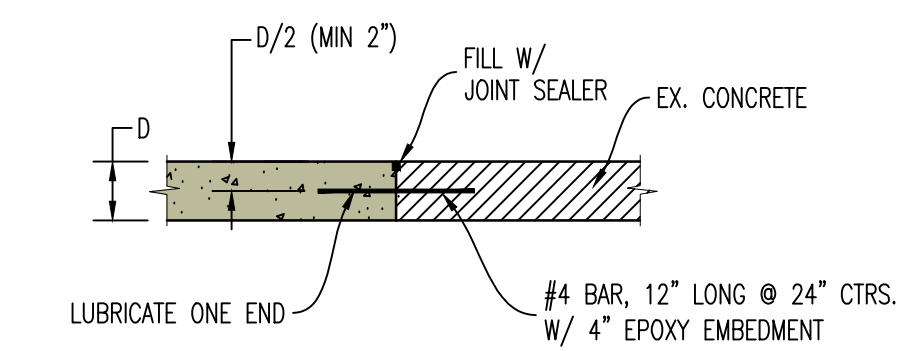
ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KCMMB SPECIFICATIONS.

3 THICKENED EDGE SIDEWALK WITH INTEGRAL CURB & GUTTER

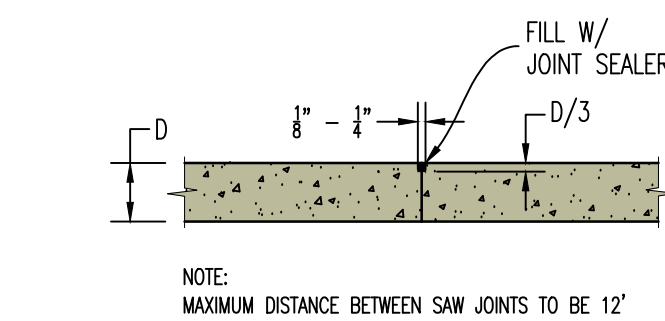


NOTE:
1. ALL BARS TO BE INSTALLED PERPENDICULAR TO EDGE AND IN SAME PLANE TO PREVENT LOCKING OF JOINT.
2. EDGE OF PAVEMENT TO BE SAWED/FORMED TO A CLEAN EDGE FOR INSTALLATION OF EXPANSION JOINT.

TYPE A - EXPANSION JOINT

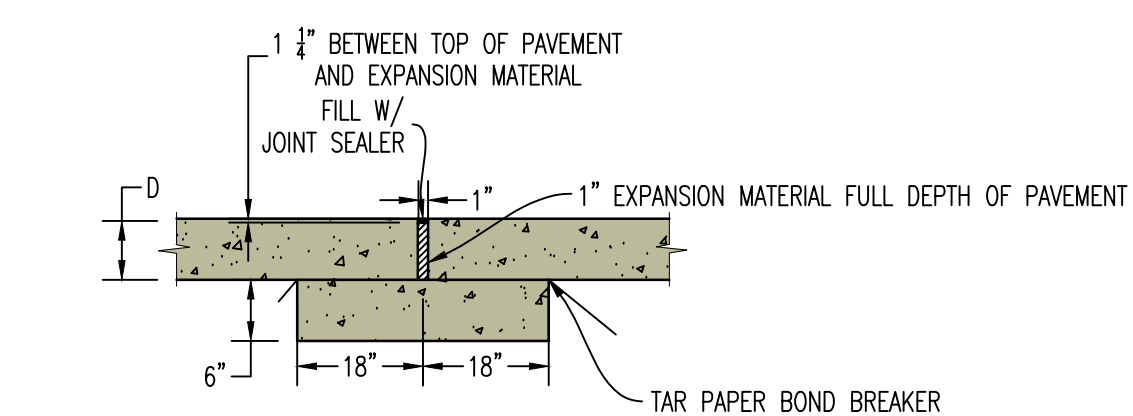


TYPE B - CONSTRUCTION JOINT



NOTE:
MAXIMUM DISTANCE BETWEEN SAW JOINTS TO BE 12'

TYPE C - CONTROL JOINT (SAWED)



TYPE A ALTERNATE CONCRETE SILL

NOTE:
JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

6 CONCRETE PAVEMENT JOINT DETAILS

REVISIONS:

NO.	DATE
ORIGINAL	07/12/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
NATHAN THOMAS ECKHOFF
PROFESSIONAL ENGINEER
NUMBER PE-2003014960
MO LICENSE 2003014960

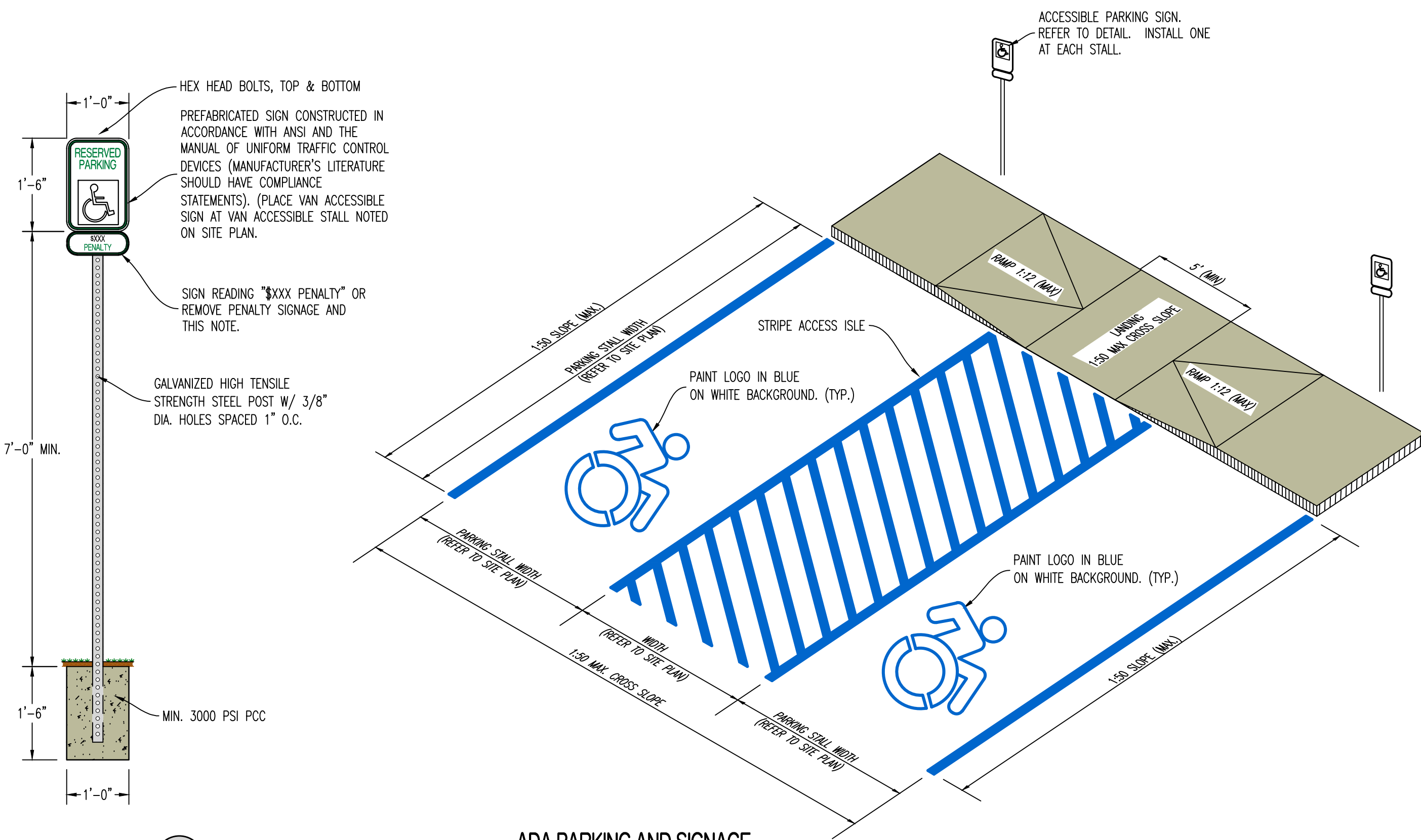
PREPARED BY:
CROCKETT ENGINEERS & ARCHITECTS
1008 N. Illinois Street, Suite 100
Columbia, Missouri 65203
(314) 487-0299
www.crockettingeering.com
Missouri Certificate of Authority #00000001

OWNER:
DISCOVERY PARK LEES SUMMIT LLC
4220 PHILLIPS FARM RD
COLUMBIA, MO 65201

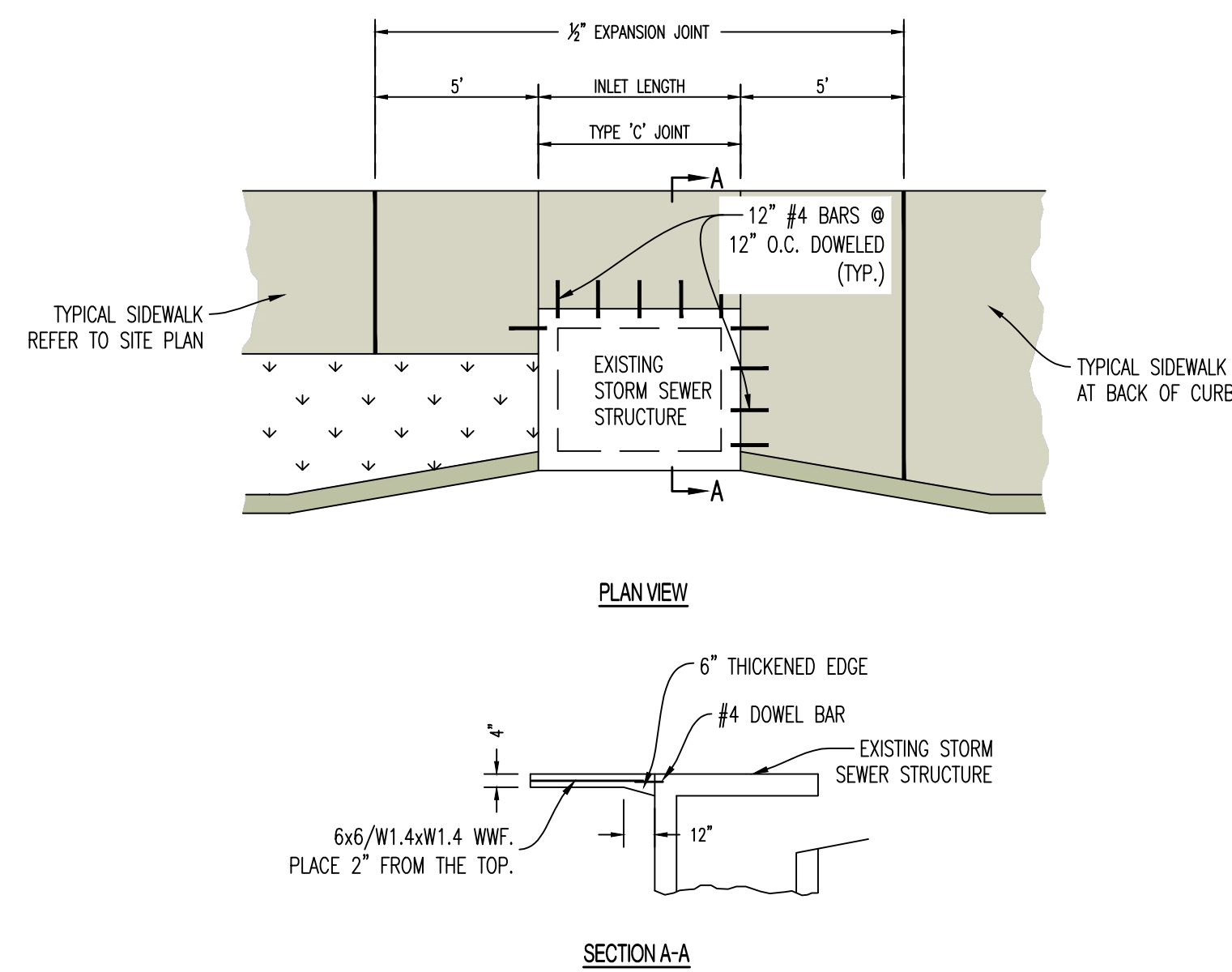
THE VILLAGE AT DISCOVERY
LOT 3
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
DETAILS SHEET 1

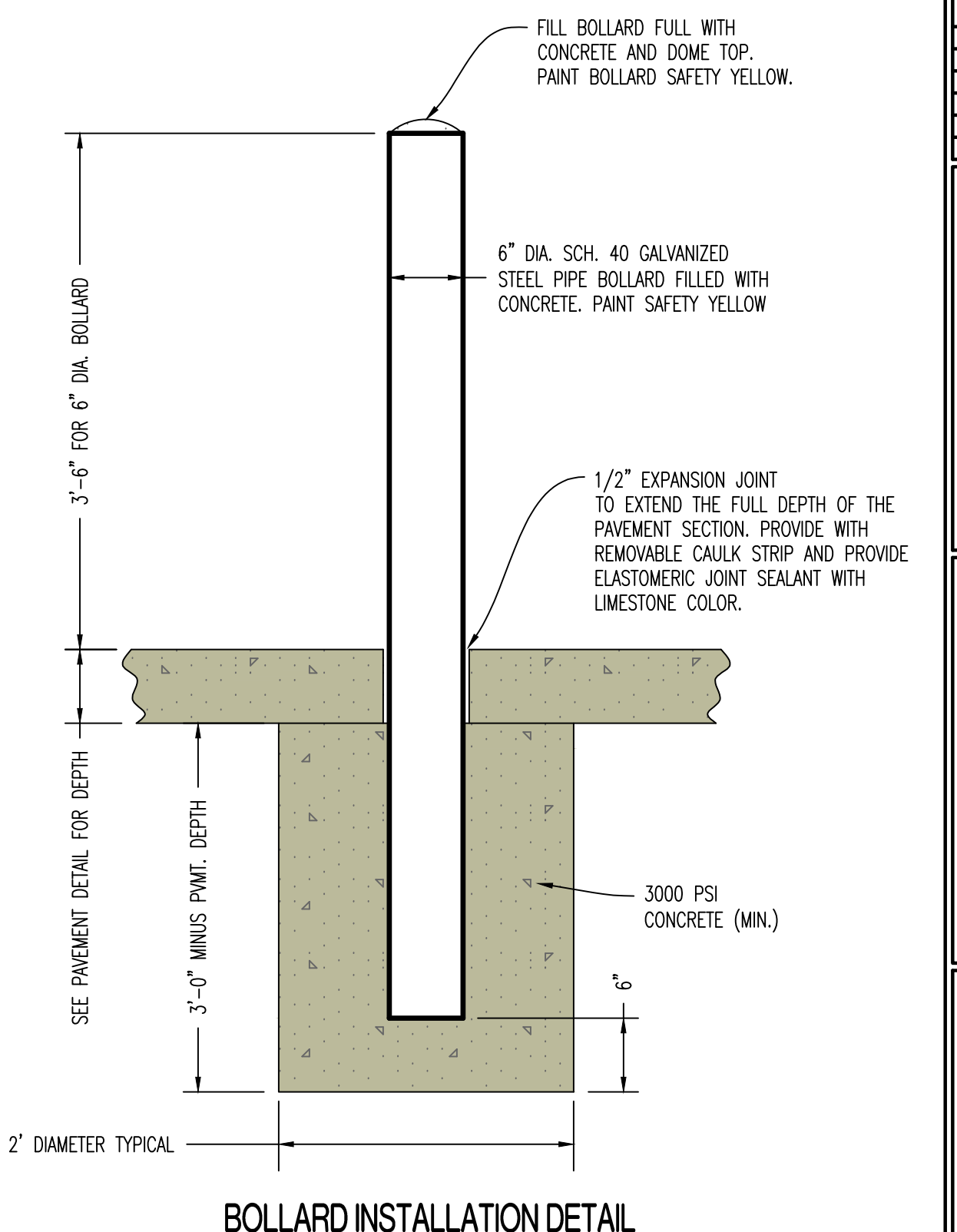
DESIGNED: NTE
DRAWN: NMD
PROJECT NO: 230286
SHEET: CE 7.1



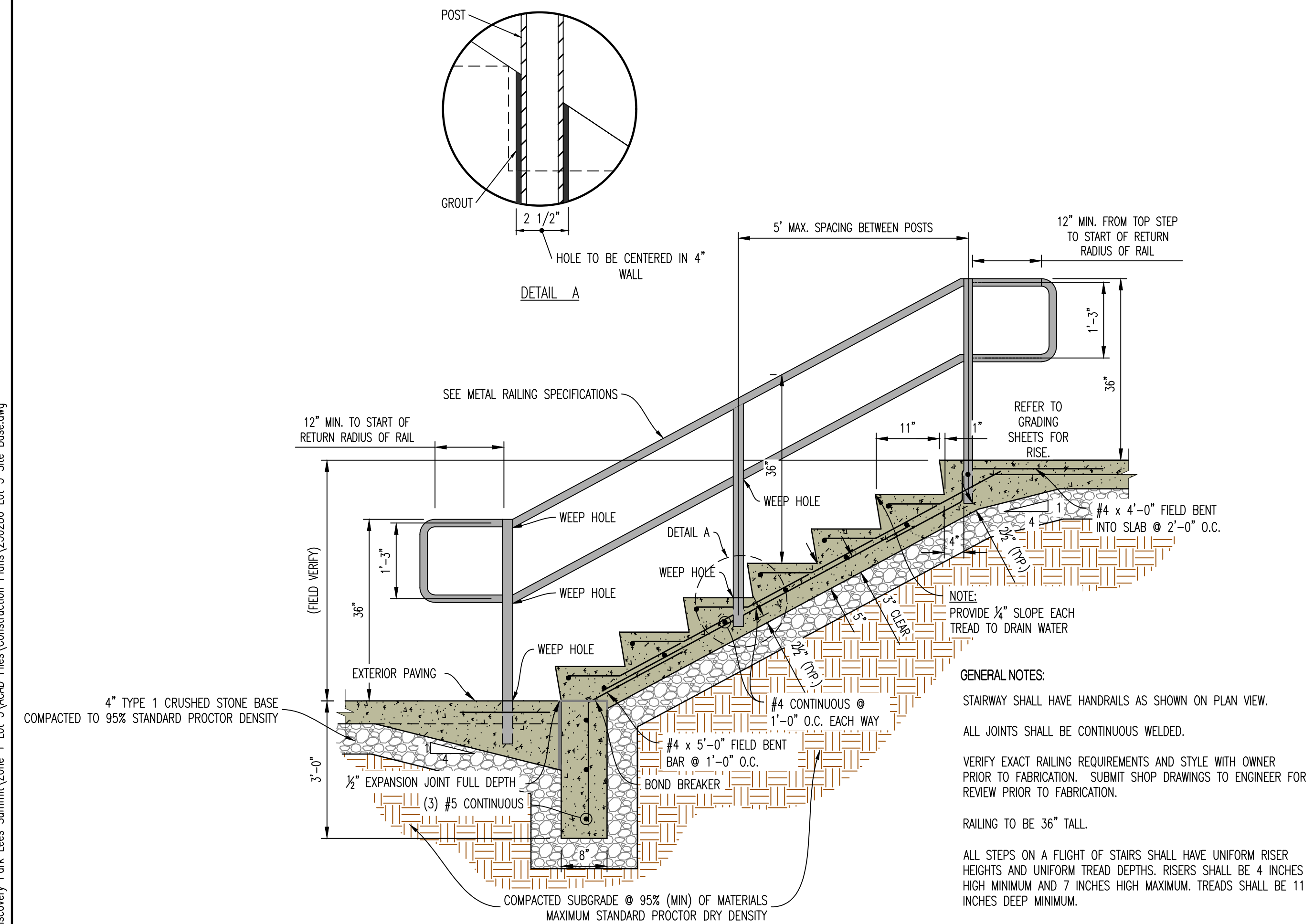
10 ADA PARKING AND SIGNAGE



13 SIDEWALK REINFORCEMENT AT DRAINAGE STRUCTURE



11 BOLLARD INSTALLATION DETAIL



12 STAIRS WITH HANDRAIL DETAIL

METAL RAILING SPECIFICATIONS

1. PROVIDE SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO FABRICATION OR INSTALLATION.
2. RAILINGS AND POSTS SHALL BE 1-1/2" DIAMETER ROUND STEEL PIPING IN COMPLIANCE WITH ASTM A53, TYPE F OR TYPE S, GRADE A SCHEDULE 40 PIPING.
3. RAILINGS SHALL BE 34"-38" TALL FROM FINISH PAVEMENT GRADE (OR STAIR NOSING) TO THE TOP OF THE TOP RAIL.
4. MAIN RAILS AND POSTS SHALL RESIST 50 POUNDS PER LINEAL FOOT LATERALLY AT THE TOP RAIL, AND 200 POUNDS OF CONCENTRATED LOAD LATERALLY.
5. INTERMEDIATE RAILS SHALL RESIST A CONCENTRATED LOAD OF 50 POUNDS LATERALLY.
6. CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A MINIMUM RADIUS OF 1/8", UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
7. COPE COMPONENTS AT CONNECTIONS TO PROVIDE CLOSE FIT, OR USE FITTINGS DESIGNED FOR THIS PURPOSE. WELD ALL AROUND AT CONNECTIONS, INCLUDING FITTINGS.
8. PROVIDE CHANGES IN RAILING DIRECTION BY USING PREFABRICATED ELBOW AND RADIUS FITTINGS.
9. PROVIDE WEEP HOLES AT THE BASE OF ALL POSTS AND ANYWHERE WATER OR CONDENSATION MAY ACCUMULATE INSIDE RAILING SECTIONS.
10. PROVIDE SHOP PRIMER FORMULATED FOR GALVANIZED STEEL. PROVIDE HOT-DIP GALVANIZED FINISH IN COMPLIANCE WITH ASTM A123. FOR ALL COMPONENTS. POWDER COATED BLACK WITH HIGH GLOSS ENAMEL PAINT. VERIFY FINAL COLOR WITH OWNER PRIOR TO PAINTING.
11. CLEAN FIELD WELDS AND REPAIR GALVANIZING TO COMPLY WITH ASTM A780.
12. POSTS SHALL BE SET PLUMB WITH A TOLERANCE OF 1/8" IN 3 FEET. ALIGN RAILS SO VARIATIONS FROM LEVEL FOR HORIZONTAL MEMBERS AND VARIATIONS FROM PARALLEL WITH RAKE OF STEPS AND RAMPS FOR SLOPING MEMBERS DO NOT EXCEED 1/4 INCH IN 12 FEET.
13. PROVIDE 4" SLEEVES OR CORE DRILL CONCRETE. MINIMUM 4" RAIL EMBEDMENT BELOW PAVEMENT SECTIONS SHOWN TO RECEIVE POSTS. GROUT AROUND AROUND POSTS WITH NON-SHRINK GROUT. MIN 2" OF GROUT BELOW BOTTOM OF POST. SLOPE TOP OF GROUT OF DRAIN.
14. CAULK JOINT BETWEEN GROUT AND METAL POST WITH APPROVE JOINT SEALANT. COORDINATE COLOR WITH OWNER.

REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/02/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI
NATHAN THOMAS ECKHOFF
PROFESSIONAL ENGINEER
NUMBER PE-200304660
MO LICENSE-200304660

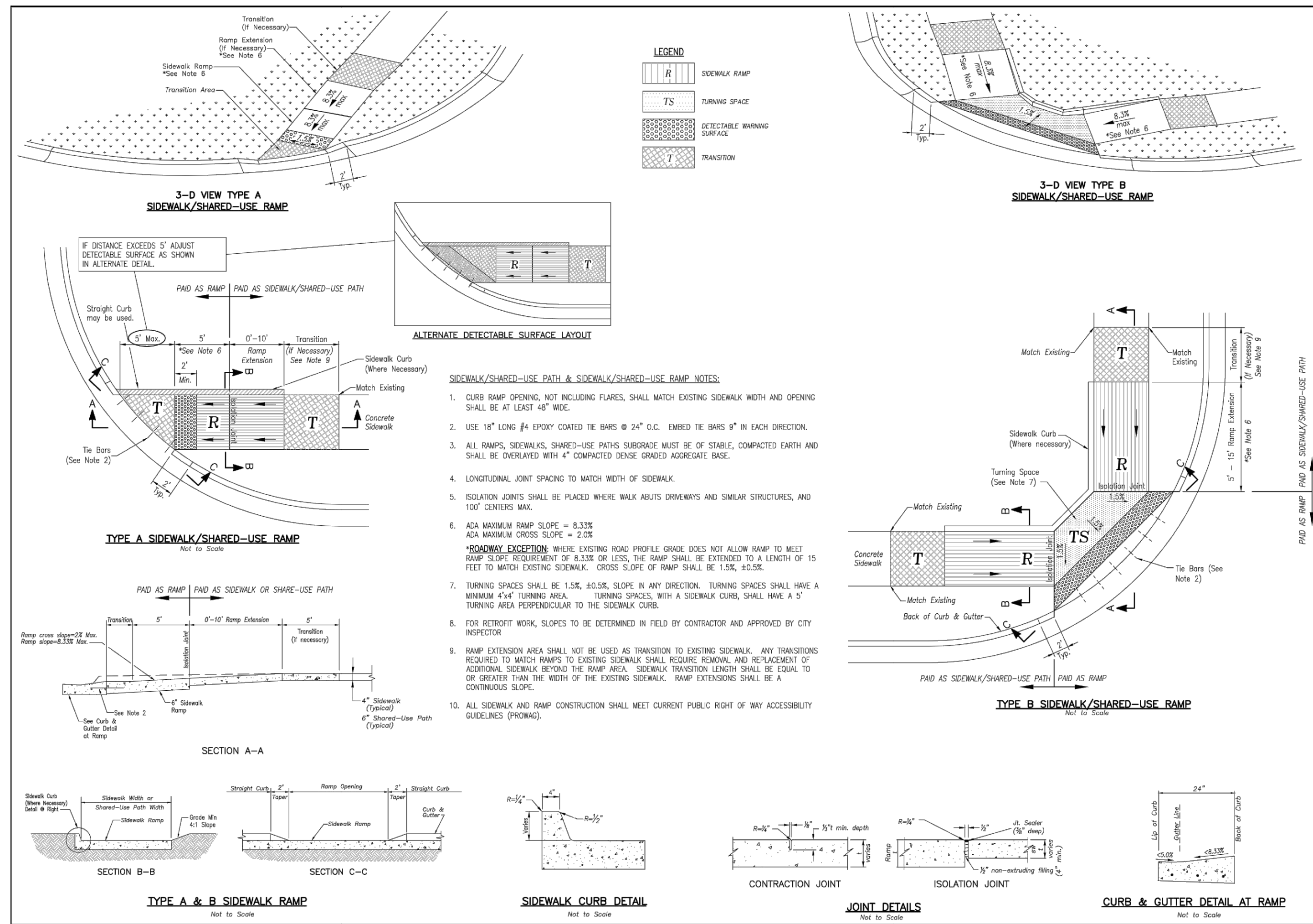
PREPARED BY:
CROCKETT
ENGINEERS & ARCHITECTS
1000 N. Illinois Street, Suite 100
Columbia, Missouri 65203
(314) 487-0299
www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#000001001

OWNER:
DISCOVERY PARK LEES SUMMIT LLC
4220 PHILLIPS FARM RD
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
DETAILS SHEET 2

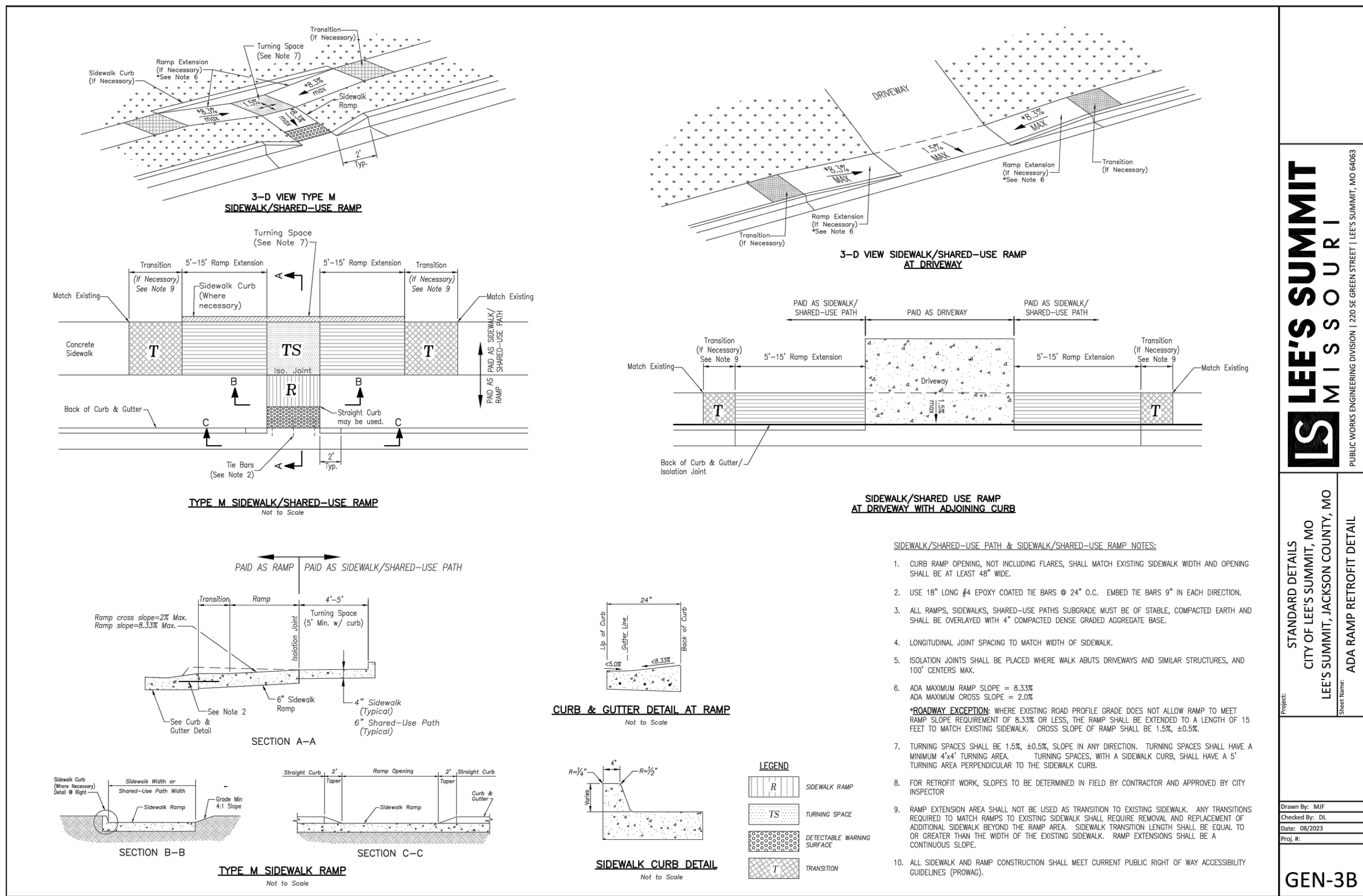
DESIGNED: NTE
DRAWN: NMD
PROJECT NO: 230286
SHEET: CE 7.2



LEES SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MBF
Checked By: DL
Date: 08/2023
Proj #: GEN-3A



LEES SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MBF
Checked By: DL
Date: 08/2023
Proj #: GEN-3B

REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024

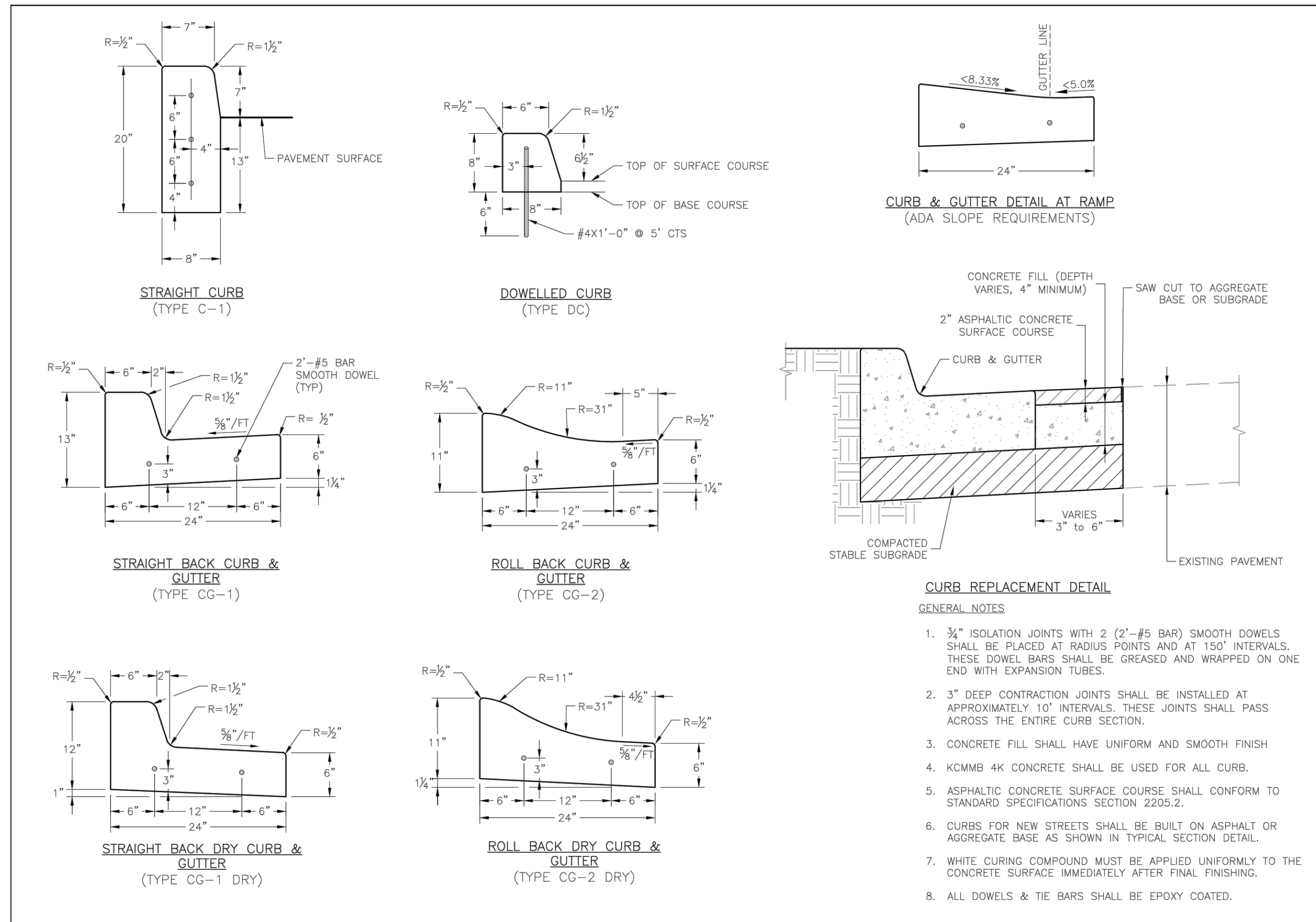
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF
PROFESSIONAL ENGINEER
NUMBER: PE-200304960
MO LICENSE: 200304960

CROCKETT ENGINEERS & ARCHITECTS
1008 N. Illinois Street, Suite 200
Columbia, Missouri 65203
(314) 487-0299
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #00000001

DISCOVERY PARK LEE'S SUMMIT LLC
4220 PHILLIPS FARMS RD
COLUMBIA, MO 65201

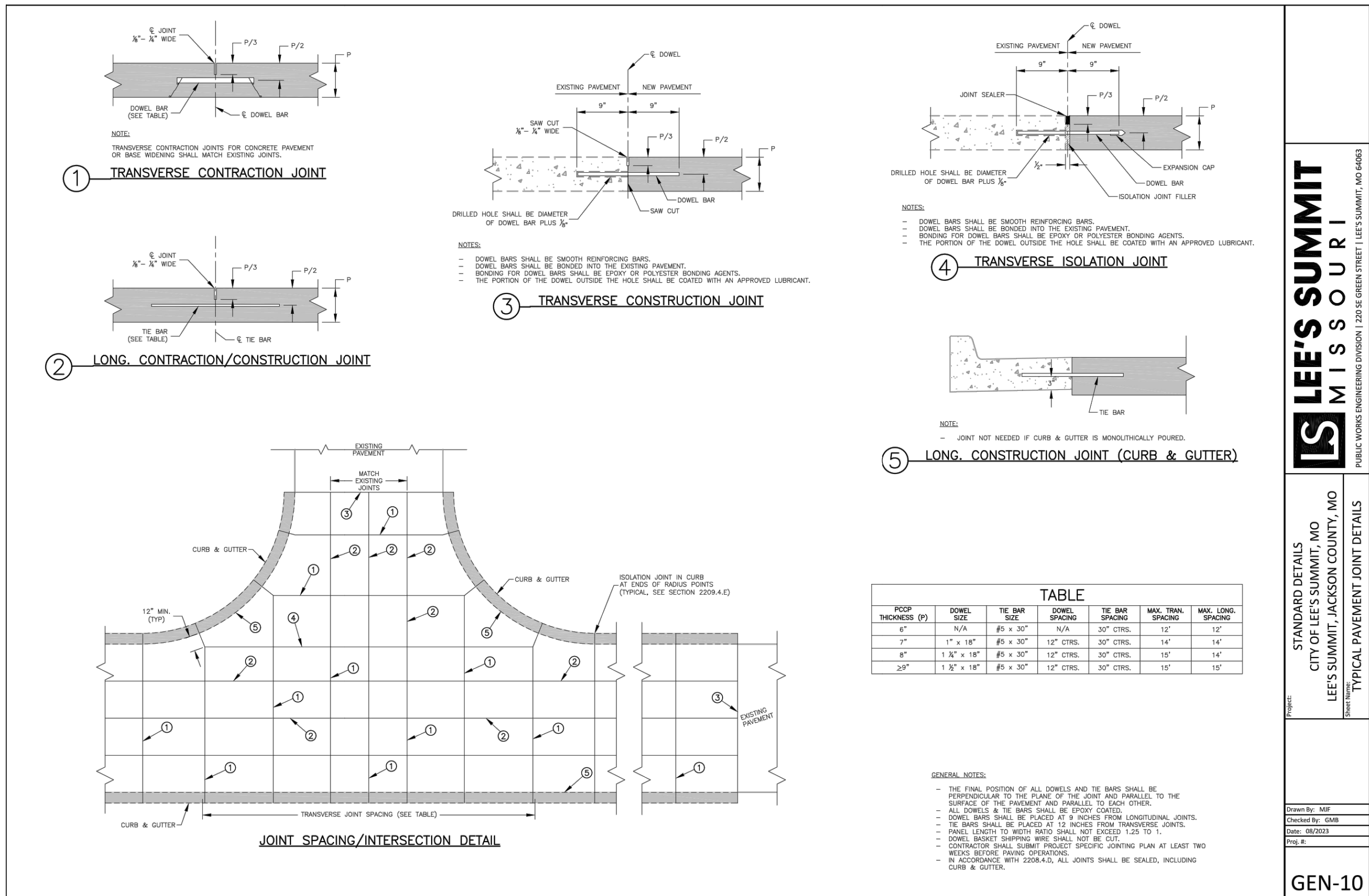
OWNER: DISCOVERY PARK LEE'S SUMMIT LLC



LEES SUMMIT MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
CURB & GUTTER DETAIL

Drawn By: MBF
Checked By: DL
Date: 08/2023
Proj #: GEN-4



LEES SUMMIT MISSOURI

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

Drawn By: MBF
Checked By: GMB
Date: 08/2023
Proj #: GEN-10

THE VILLAGE AT DISCOVERY

LOT 3

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

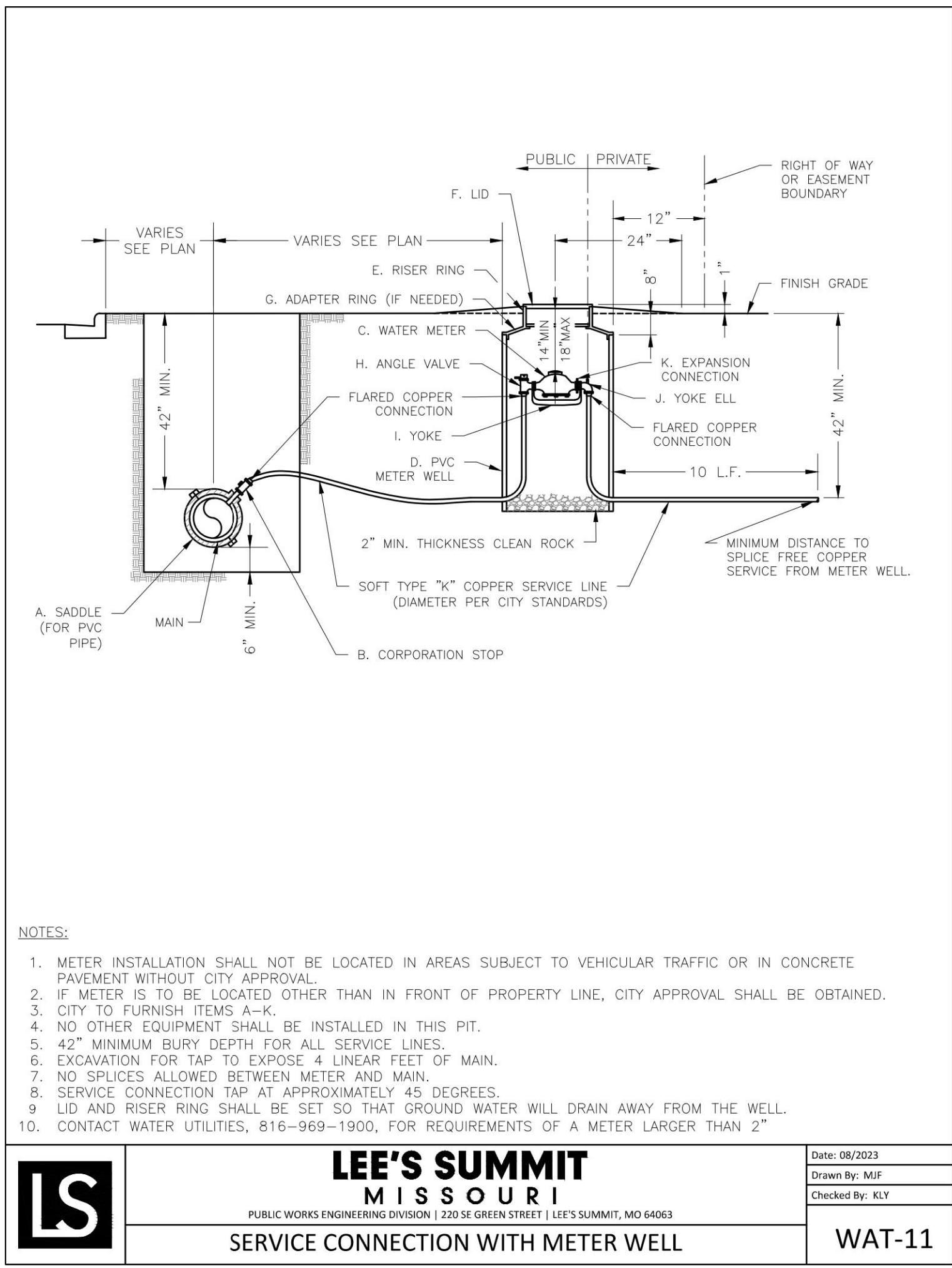
LEE'S SUMMIT DETAILS SHEET 1

DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

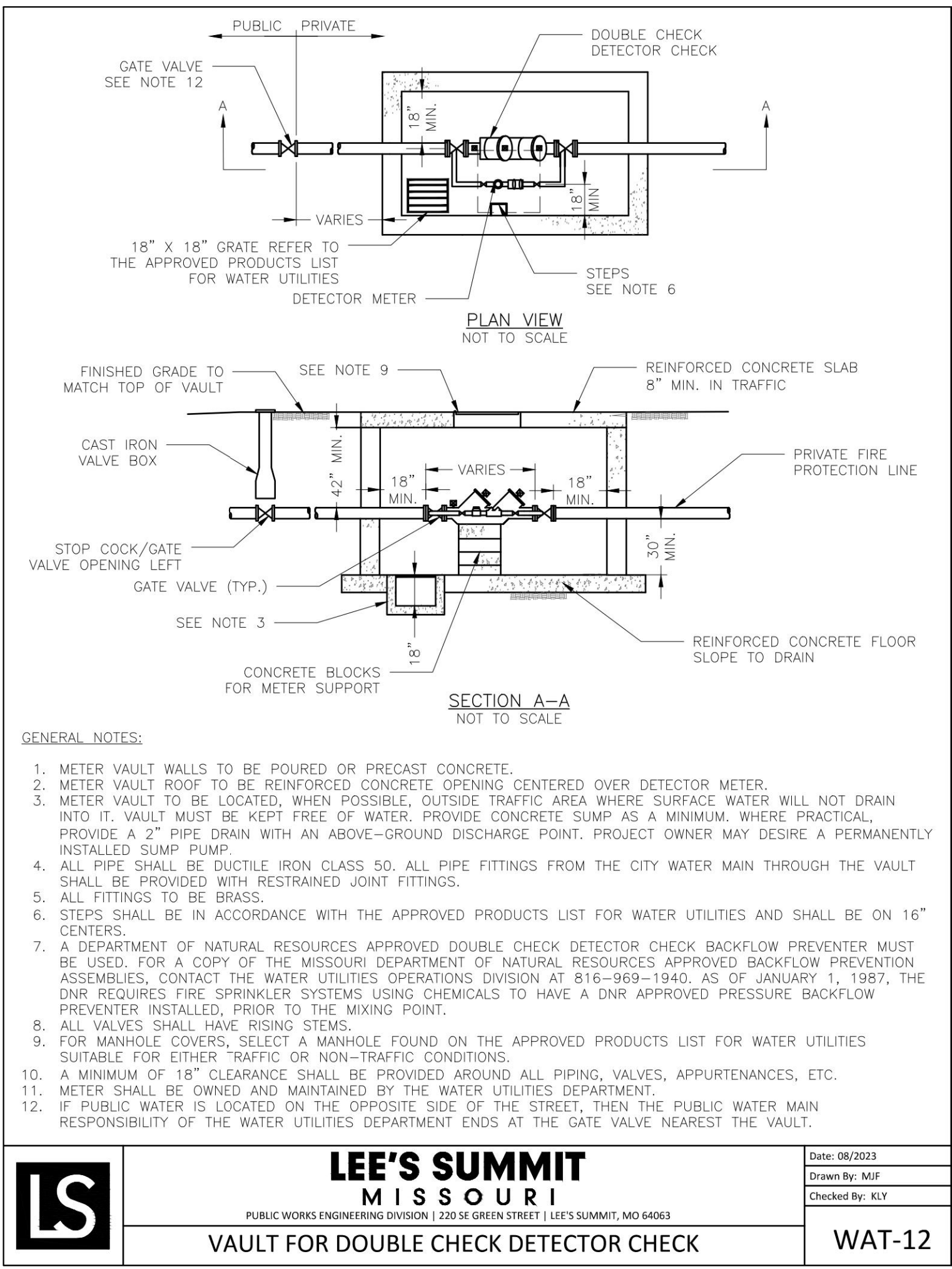
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

DATE: 08/2023
DRAWN BY: MJF
CHECKED BY: KLY

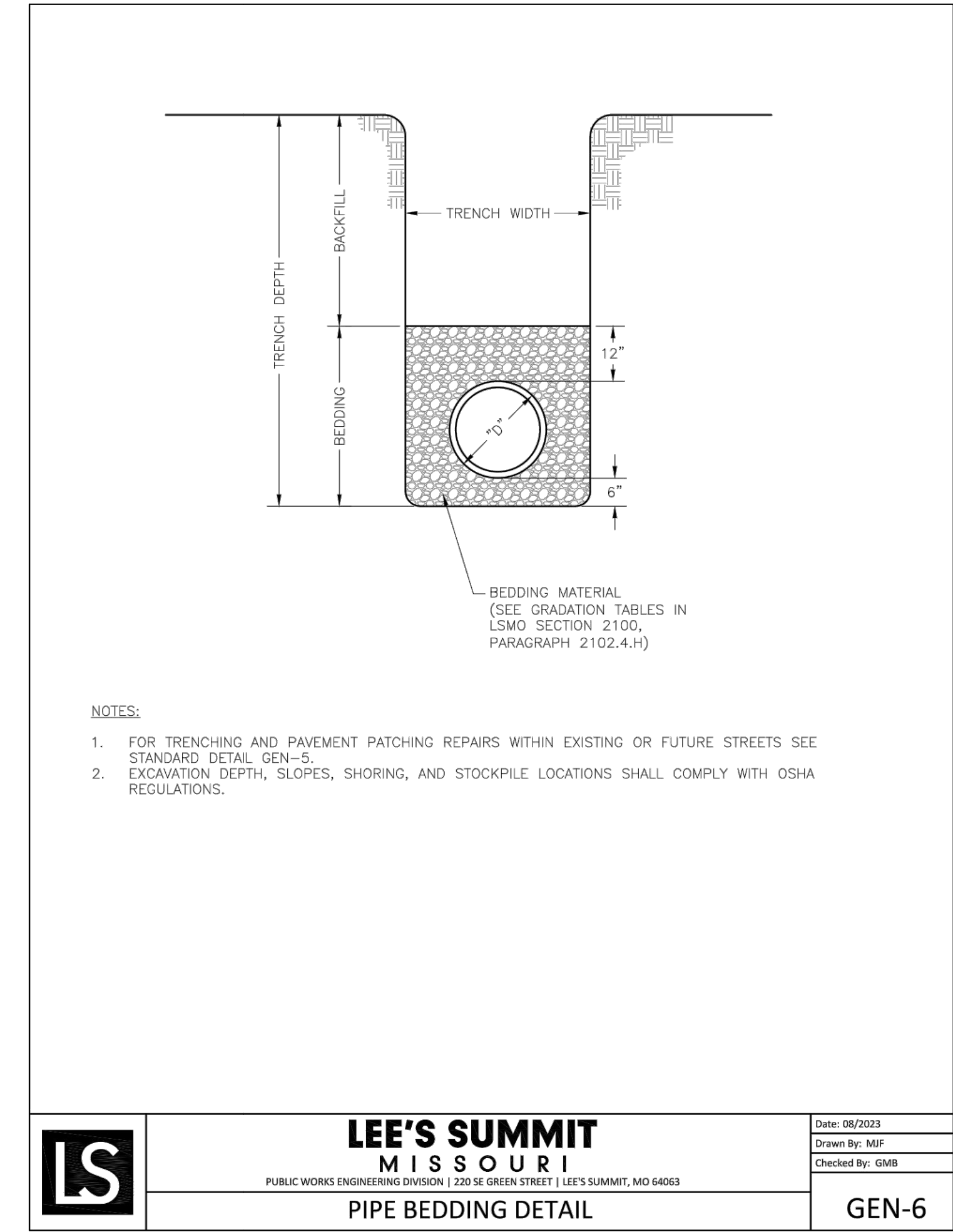
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

DATE: 08/2023
DRAWN BY: MJF
CHECKED BY: KLY

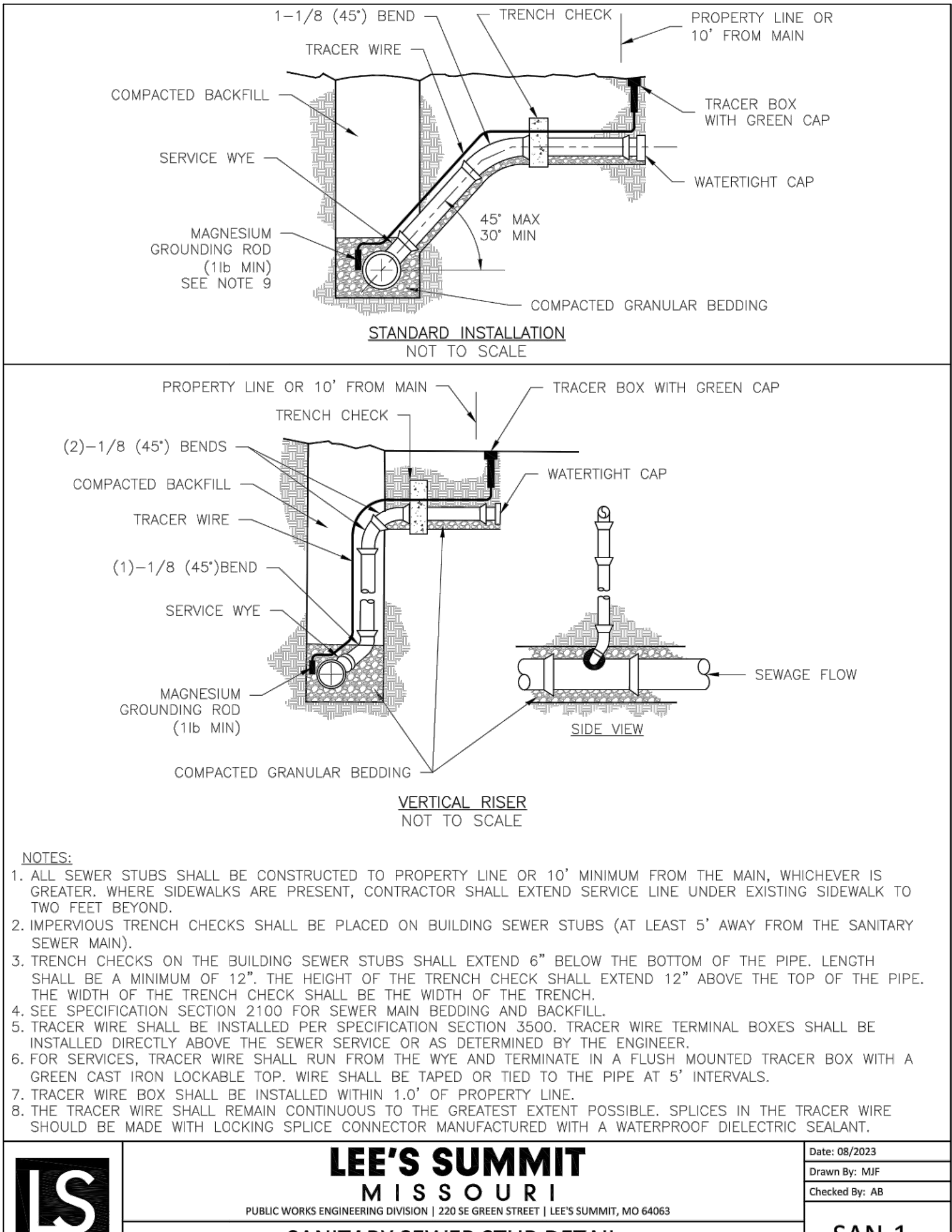
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

DATE: 08/2023
DRAWN BY: MJF
CHECKED BY: GMB

GEN-6



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

DATE: 08/2023
DRAWN BY: MJF
CHECKED BY: AB

SAN-1

REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
NATHAN THOMAS ECKHOFF
REGISTERED PROFESSIONAL ENGINEER
NUMBER PE-20030/4660
MO LICENSE-200304660

PREPARED BY:
CROCKETT ENGINEERS & ARCHITECTS
1000 N. WILSON BLVD., SUITE 100
COLUMBIA, MISSOURI 65203
(314) 487-0299
www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #00000001

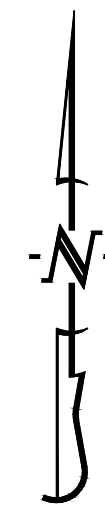
OWNER:
DISCOVERY PARK LEE'S SUMMIT LLC
4220 PHILLIPS FARM RD
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY LOT 3
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

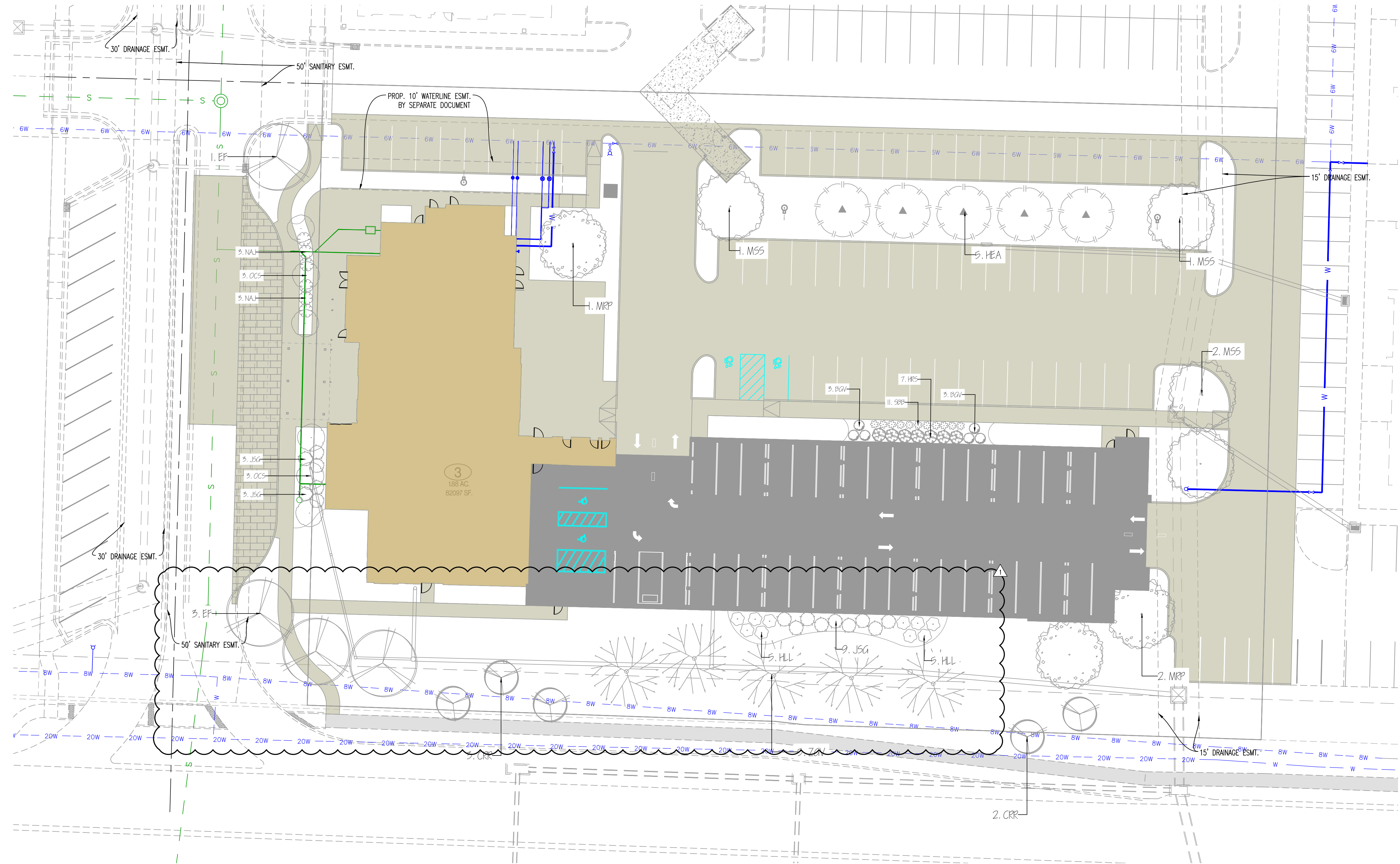
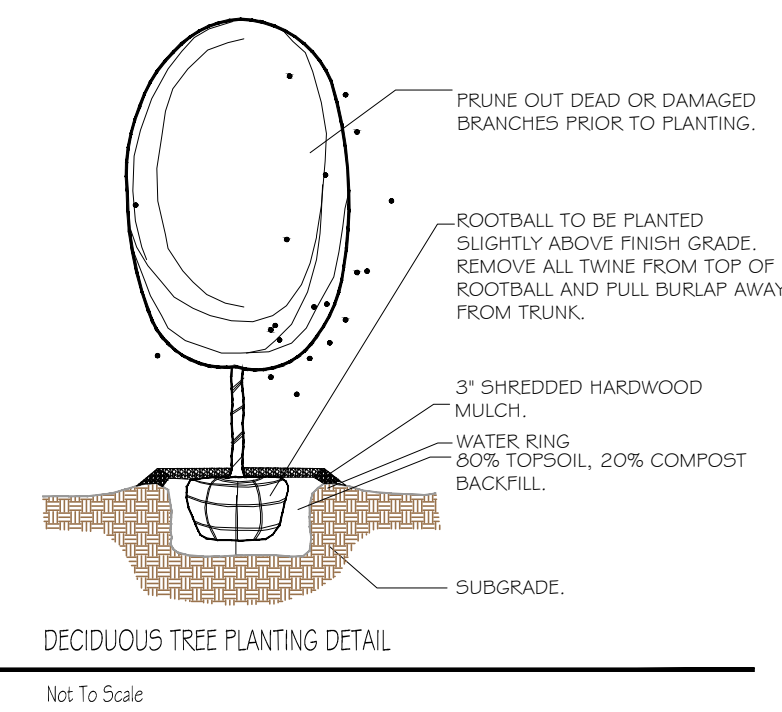
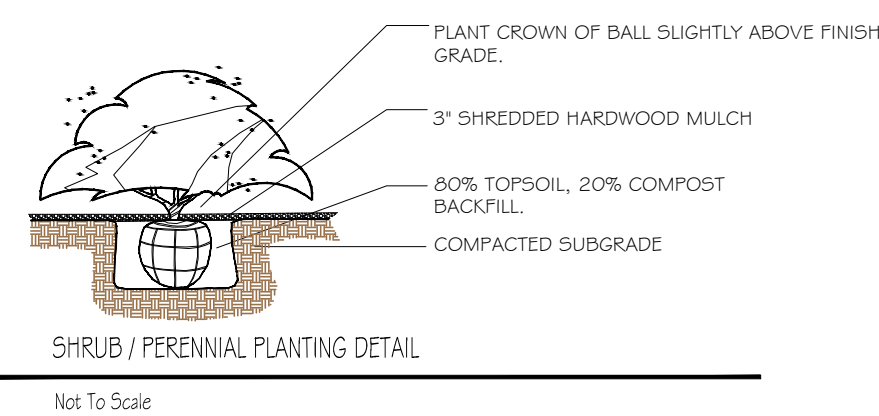
DRAWING INCLUDES:
LEE'S SUMMIT DETAILS SHEET 2

DESIGNED: NTE
DRAWN: NMD
PROJECT NO.: 230286
SHEET: CE 7.4

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\Acad Files\Construction Plans\230286 Lot 3 Site Base.dwg



SCALE: 1"=20'
0 10 20 40



THE PLANT LIST IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL PLANT COUNTS AND IF A DISCREPANCY EXISTS THE PLAN SHALL GOVERN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION.

LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADED TO +/-0.10 FOOT OF FINISHED GRADE.

PLANTING BACK FILL MIX IS TO CONSIST OF 80% NATIVE TOPSOIL, AND 20% ORGANIC MATTER.

SHRUB BEDS, BERMS, AND TREE WELLS ARE TO BE MULCHED WITH 3-4\"/>

ALL BED AND LAWN AREAS SHALL BE IRRIGATED.

ALL LAWN AREAS TO BE SODDED WITH TALL FESCUE SOD.

LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWELVE MONTHS.

ALL PLANTING BEDS AND TREE RINGS TO BE SEPERATED FROM TURF AREAS BY 'V' TRENCHING.

ALL PLANT MATERIAL MUST MEET THE SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

PLANT LOCATIONS MAY BE ADJUSTED ONSITE TO AVOID UTILITIES, SITE FEATURES, ETC.

ONLY ORNAMENTAL TREES AND SHRUBS MAY BE PLANTED IN ANY EASEMENTS.

QUANTITY	SYMBOL	PLANT NAME	PLANT TYPE	SIZE
4	EF	ELM 'FRONTIER'	MEDIUM / LARGE TREE	3"
5	ZOV	ZELKOVA 'GREEN WAVE'	MEDIUM / LARGE TREE	3"
4	MSS	MAYABI MAPLE 'STATE STREET'	MEDIUM / LARGE TREE	3"
6	OCS	OKA 'CRIMSON SPIRE'	MEDIUM / LARGE TREE	3"
3	MRP	MAPLE 'RED POINT'	MEDIUM / LARGE TREE	3"
5	HEA	HORNBEAM 'EMERALD AVENUE'	MEDIUM / LARGE TREE	3"
5	CRR	CRABAPPLE 'ROYAL RANDROPS'	ORNAMENTAL TREE	2"
6	NAJ	NINEBARK 'AMBER JUBILEE'	DECIDUOUS SHRUB	#5
10	HLL	HYDRANGEA 'LITTLE LIME'	DECIDUOUS SHRUB	#5
7	HRS	HYDRANGEA 'RUBY SLIPPERS'	DECIDUOUS SHRUB	#5
11	SCC	SPIREA 'BIG BANG'	DECIDUOUS SHRUB	#5
6	BGV	BOXWOOD 'GREEN VELVET'	EVERGREEN SHRUB	#5
15	JSG	JUNIPER 'SEA GREEN'	EVERGREEN SHRUB	#5

LANDSCAPE COMPLIANCE: LOT 3			
LEE'S SUMMIT, MISSOURI CODE OF ORDINANCES: DIVISION III - LANDSCAPING, BUFFERS, AND TREE PROTECTION SITE ZONED: PMX, PROPOSED: PMX			
STREET FRONTAGE TREES			
1 TREE PER 30 FEET OF STREET FRONTAGE NE DISCOVERY AVE - 230 LF STREET FRONTAGE NE COBURN ROAD - 353 LF STREET FRONTAGE	8 TREES REQUIRED	8 TREES PROPOSED	12 TREES PROPOSED
OPEN YARD TREES			
1 TREE PER 5,000 SF OF TOTAL LOT AREA, EXCLUDING BUILDING FOOTPRINT TOTAL LOT AREA = 59,090 SF	12 TREES REQUIRED	12 TREES PROPOSED	
STREET FRONTAGE SHRUBS			
1 SHRUB PER 20 FEET OF STREET FRONTAGE NE DISCOVERY AVE - 230 LF STREET FRONTAGE NE COBURN ROAD - 353 LF STREET FRONTAGE	12 SHRUBS REQUIRED	12 SHRUBS PROPOSED	19 SHRUBS PROPOSED
OPEN YARD SHRUBS			
2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA, EXCLUDING BUILDING FOOTPRINT TOTAL LOT AREA = 59,090 SF	24 SHRUBS REQUIRED	24 SHRUBS PROPOSED	

REVISIONS:

NO.	DATE
ORIGINAL	07/17/2024
REV. 1	08/01/2024

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

PREPARED BY: **CROCKETT ENGINEERS & ARCHITECTS**
1000 W. Wilson Blvd., Suite 200
Columbia, Missouri 65203
(314) 487-0291
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #000001001

OWNER: **DISCOVERY PARK LEES SUMMIT LLC**
4220 PHILLIPS FARM RD
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY
LOT 3
LEES SUMMIT, JACKSON COUNTY, MISSOURI

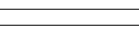



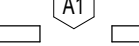
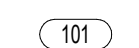

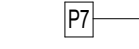
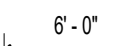

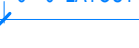
DRAWING INCLUDES:
LANDSCAPE PLAN

DESIGNED: NTE
DRAWN: NMD
PROJECT NO: 230286
SHEET: CE 8.1

Y:\2023\230286 - Discovery Park Lees Summit\Zone 1 Lot 3\A\A\0 Files\Construction Plans\230286 Lot 3 Landscape Base.dwg

REFERENCE G-003 FOR GENERAL NOTES

PLAN LEGEND

-  PARTIAL HEIGHT PARTITION
-  NON-RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  1 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  2 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
-  DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
-  PARTITION TYPE; SEE ASSEMBLIES ON SHEET G-102
-  FRAMING DIMENSIONS
-  LAYOUT LINE DIMENSIONS
-  HEARING/VISIBILITY
-  ADA ACCESSIBLE UNITS

KEYNOTE LEGEND

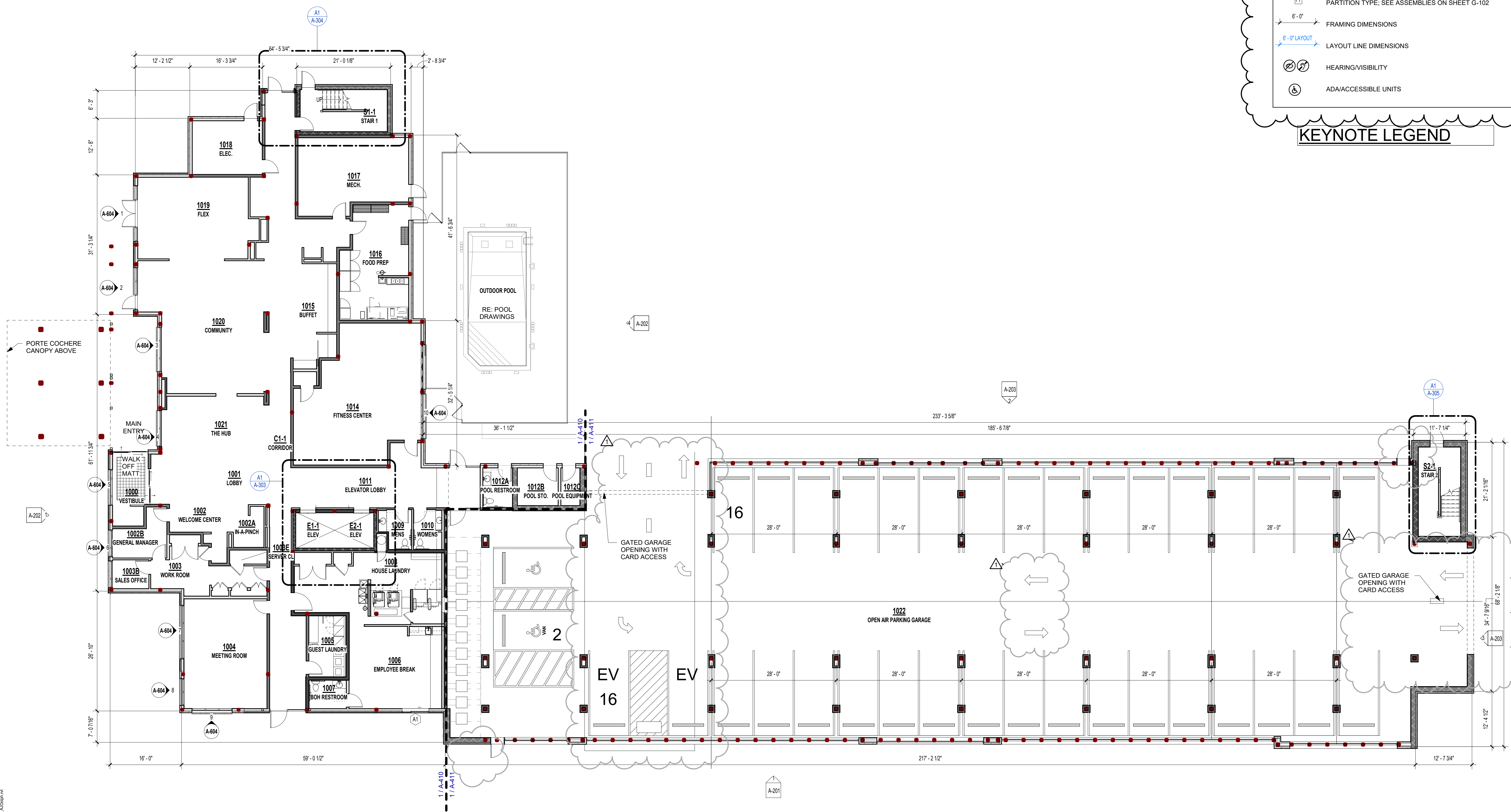
PRINTS ISSUED
11/01/2023 - CITY SUBMITTAL

REVISIONS:
12/22/2023 Response to City Comments
01/19/2024 Addendum #2
03/06/2024 IN RESPONSE TO GC COMMENTS

rosemann & ASSOCIATES P.C.
ARCHITECTURE
INTERIOR DESIGN
ENGINEERING
PLANNING

1526 Grand Boulevard
Kansas City, MO 64108-1404
p: 816.472.1448
w: www.rosemann.com
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DENVER ▲ KANSAS CITY ▲ ST. LOUIS ▲ ATLANTA



TOWNEPLACE SUITES
1901 NE DISCOVERY AVE.
LEE'S SUMMIT MO 64064 USA

SHEET TITLE
FIRST FLOOR PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:

A-101

1 1ST FLOOR PLAN
3/32" = 1'-0"

7/10/2024 2:46:48 PM
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REFERENCE G-003 FOR GENERAL NOTES

PRINTS ISSUED
11/01/2023 - CITY SUBMITTAL

REVISIONS:
01/19/2024 Addendum #2
03/06/2024 IN RESPONSE TO GC COMMENTS

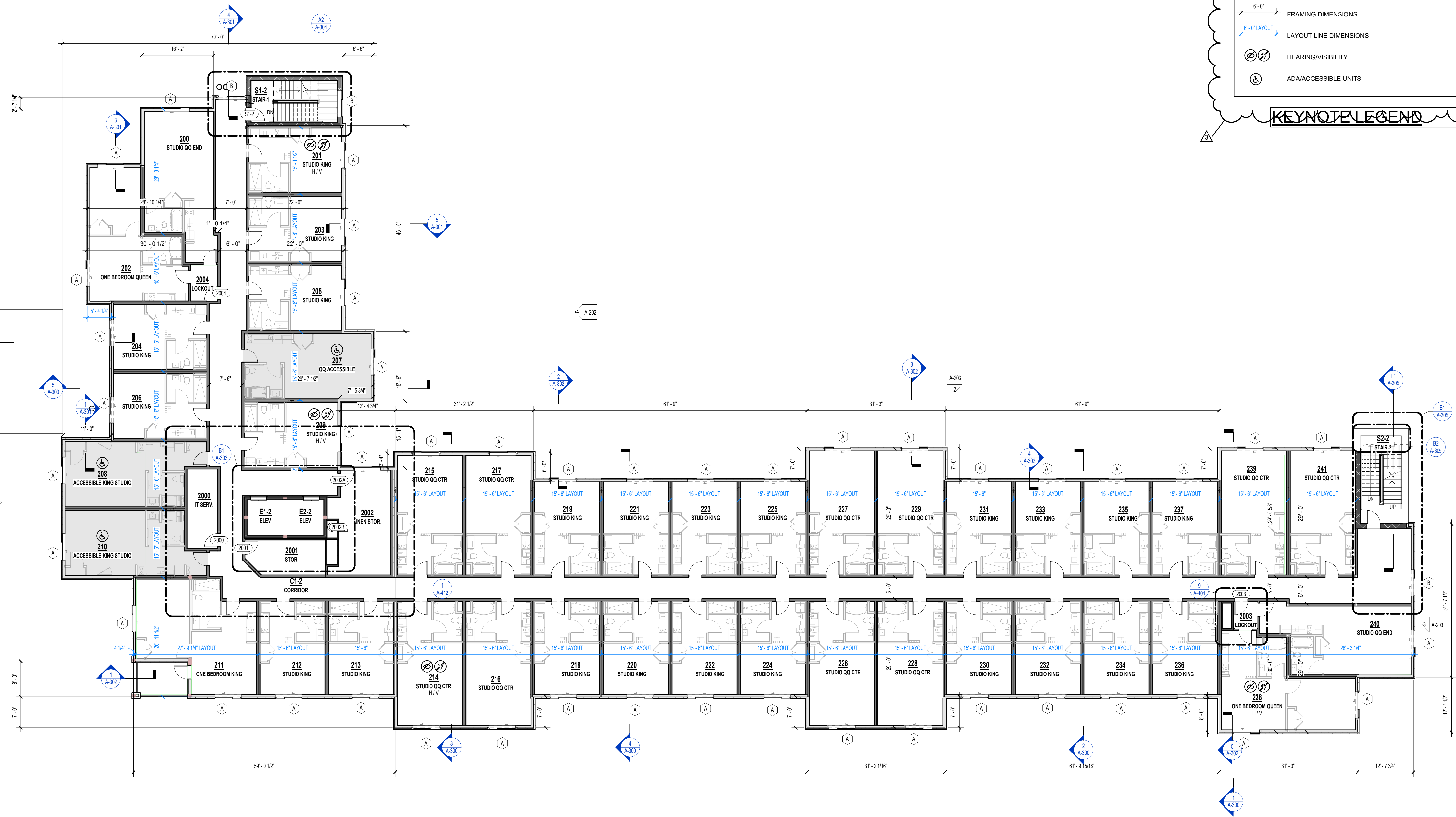
PLAN LEGEND	
	PARTIAL HEIGHT PARTITION
	NON-RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
	1 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
	2 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
	WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
	DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
	PARTITION TYPE; SEE ASSEMBLIES ON SHEET G-102
	FRAMING DIMENSIONS
	LAYOUT LINE DIMENSIONS
	HEARING/VISIBILITY
	ADA/ACCESSIBLE UNITS

KEYNOTE LEGEND

rosemann & ASSOCIATES P.C.
 ARCHITECTURE
 INTERIOR DESIGN
 ENGINEERING
 PLANNING

1526 Grand Boulevard
 Kansas City, MO 64108-1404
 P: 816.472.1448
 W: www.rosemann.com
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DENVER ■ KANSAS CITY ■ ST. LOUIS ■ ATLANTA



TOWNEPLACE SUITES

1901 NE DISCOVERY AVE.
 LEE'S SUMMIT 64064 USA

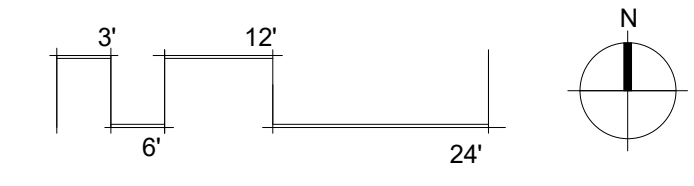
SHEET TITLE
SECOND FLOOR PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:






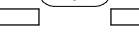
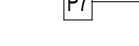
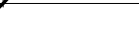
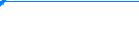


A-102

1 SECOND FLOOR PLAN
 3/32" = 1'-0"



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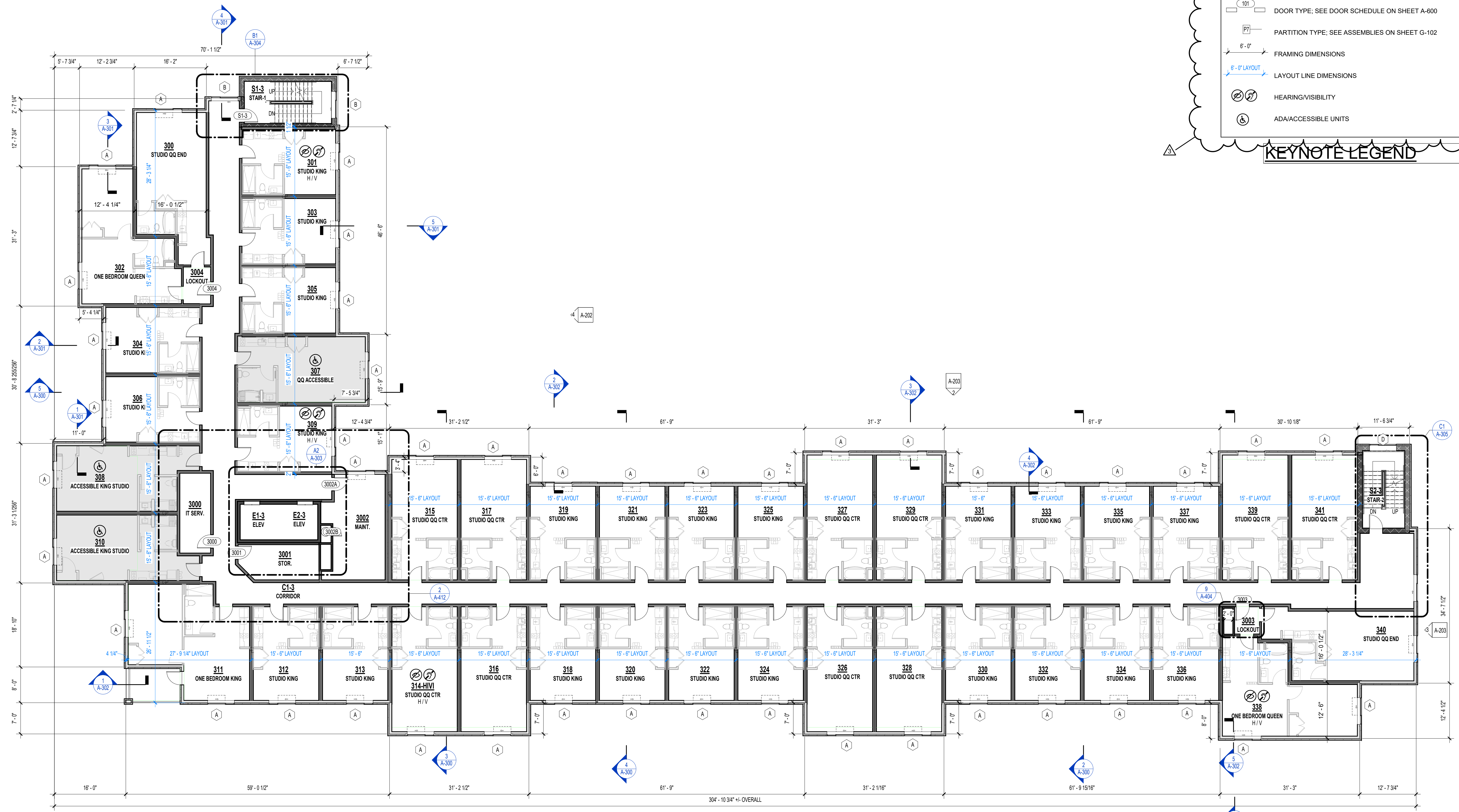
-  PARTIAL HEIGHT PARTITION
-  NON-RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  1 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  2 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
-  WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
-  DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
-  PARTITION TYPE; SEE ASSEMBLIES ON SHEET G-102
-  FRAMING DIMENSIONS
-  LAYOUT LINE DIMENSIONS
-  HEARING/VISIBILITY
-  ADA/ACCESSIBLE UNITS

KEYNOTE LEGEND

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TOWNEPLACE SUITES

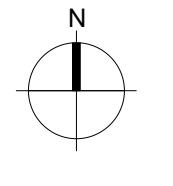
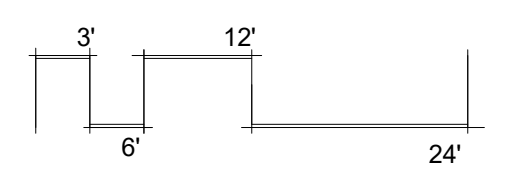
1901 NE DISCOVERY AVE.
LEE'S SUMMIT 64064 USA

SHEET TITLE
THIRD FLOOR PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:

A-103



1 THIRD FLOOR PLAN
3/32" = 1'-0"

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REFERENCE G-003 FOR GENERAL NOTES

PLAN LEGEND

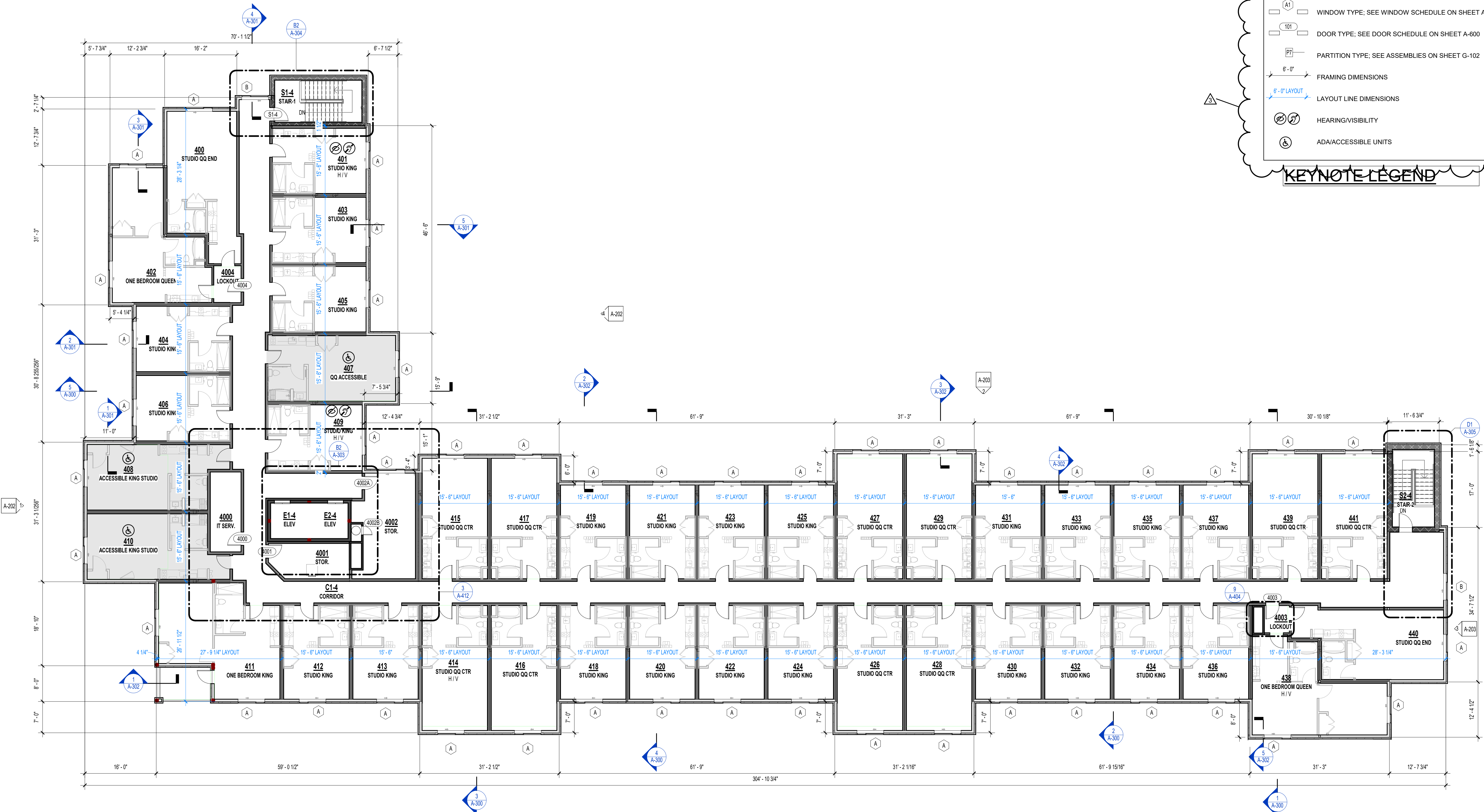
- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
- 1 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
- 2 HR RATED PARTITION; SEE ASSEMBLIES ON SHEET G-102
- WINDOW TYPE; SEE WINDOW SCHEDULE ON SHEET A-600
- DOOR TYPE; SEE DOOR SCHEDULE ON SHEET A-600
- PARTITION TYPE; SEE ASSEMBLIES ON SHEET G-102
- FRAMING DIMENSIONS
- LAYOUT LINE DIMENSIONS
- HEARING/VISIBILITY
- ADA/ACCESSIBLE UNITS

KEYNOTE LEGEND

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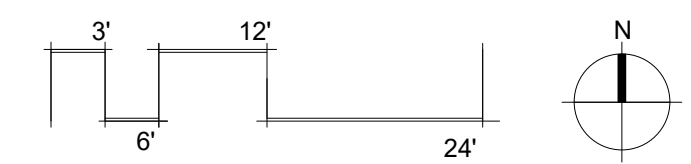
TOWNEPLACE SUITES

**1901 NE DISCOVERY AVE.
LEE'S SUMMIT 64064 USA**

SHEET TITLE
FOURTH FLOOR PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:



1 FOURTH FLOOR PLAN
3/32" = 1'-0"

A-104

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Zone A		Zone B		Zone C		Zone D	
AREA TO BE VENTED	866 S.F.	AREA TO BE VENTED	1360 S.F.	AREA TO BE VENTED	763 S.F.	AREA TO BE VENTED	915 S.F.
VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300
TOTAL REQUIRED VENTING = (866 S.F. x 144) / 300 =	416 SQ.IN.	TOTAL REQUIRED VENTING = (1360 S.F. x 144) / 300 =	653 SQ.IN.	TOTAL REQUIRED VENTING = (763 S.F. x 144) / 300 =	366 SQ.IN.	TOTAL REQUIRED VENTING = (915 S.F. x 144) / 300 =	439 SQ.IN.
HIGH ROOF VENTING = 416 SQ.IN. x 1 =	416 SQ.IN.	HIGH ROOF VENTING = 653 SQ.IN. x 1 =	653 SQ.IN.	HIGH ROOF VENTING = 366 SQ.IN. x 1 =	366 SQ.IN.	HIGH ROOF VENTING = 439 SQ.IN. x 1 =	439 SQ.IN.
LOW ROOF VENTING = 416 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 653 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 366 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 439 SQ.IN. x 0 =	0 SQ.IN.
HIGH ROOF VENTING	416 SQ.IN. REQUIRED	HIGH ROOF VENTING	653 SQ.IN. REQUIRED	HIGH ROOF VENTING	366 SQ.IN. REQUIRED	HIGH ROOF VENTING	439 SQ.IN. REQUIRED
PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	762 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED
(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA
(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA
TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	762 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED

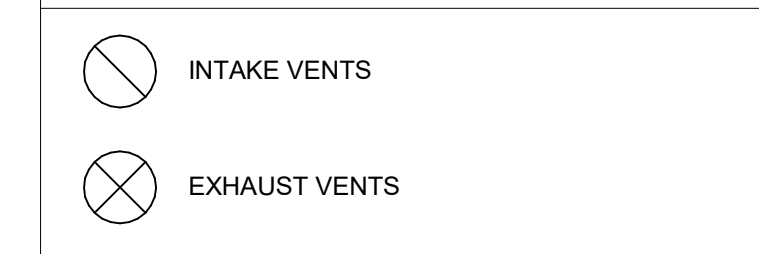
Zone E		Zone F		Zone G		Zone H		Zone I	
AREA TO BE VENTED	1228 S.F.	AREA TO BE VENTED	975 S.F.	AREA TO BE VENTED	743 S.F.	AREA TO BE VENTED	815 S.F.	AREA TO BE VENTED	849 S.F.
VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300
TOTAL REQUIRED VENTING = (1228 S.F. x 144) / 300 =	589 SQ.IN.	TOTAL REQUIRED VENTING = (975 S.F. x 144) / 300 =	468 SQ.IN.	TOTAL REQUIRED VENTING = (743 S.F. x 144) / 300 =	357 SQ.IN.	TOTAL REQUIRED VENTING = (815 S.F. x 144) / 300 =	391 SQ.IN.	TOTAL REQUIRED VENTING = (849 S.F. x 144) / 300 =	408 SQ.IN.
HIGH ROOF VENTING = 589 SQ.IN. x 1 =	589 SQ.IN.	HIGH ROOF VENTING = 468 SQ.IN. x 1 =	468 SQ.IN.	HIGH ROOF VENTING = 357 SQ.IN. x 1 =	357 SQ.IN.	HIGH ROOF VENTING = 391 SQ.IN. x 1 =	391 SQ.IN.	HIGH ROOF VENTING = 408 SQ.IN. x 1 =	408 SQ.IN.
LOW ROOF VENTING = 589 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 468 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 357 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 391 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 408 SQ.IN. x 0 =	0 SQ.IN.
HIGH ROOF VENTING	589 SQ.IN. REQUIRED	HIGH ROOF VENTING	468 SQ.IN. REQUIRED	HIGH ROOF VENTING	357 SQ.IN. REQUIRED	HIGH ROOF VENTING	391 SQ.IN. REQUIRED	HIGH ROOF VENTING	408 SQ.IN. REQUIRED
PROVIDED HIGH ROOF VENTING	762 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED
(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA
(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA
TOTAL ROOF VENTING PROVIDED	762 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED

Zone J		Zone K		Zone L		Zone M	
AREA TO BE VENTED	1025 S.F.	AREA TO BE VENTED	665 S.F.	AREA TO BE VENTED	828 S.F.	AREA TO BE VENTED	660 S.F.
VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300
TOTAL REQUIRED VENTING = (1025 S.F. x 144) / 300 =	492 SQ.IN.	TOTAL REQUIRED VENTING = (665 S.F. x 144) / 300 =	319 SQ.IN.	TOTAL REQUIRED VENTING = (828 S.F. x 144) / 300 =	397 SQ.IN.	TOTAL REQUIRED VENTING = (660 S.F. x 144) / 300 =	317 SQ.IN.
HIGH ROOF VENTING = 492 SQ.IN. x 1 =	492 SQ.IN.	HIGH ROOF VENTING = 319 SQ.IN. x 1 =	319 SQ.IN.	HIGH ROOF VENTING = 397 SQ.IN. x 1 =	397 SQ.IN.	HIGH ROOF VENTING = 317 SQ.IN. x 1 =	317 SQ.IN.
LOW ROOF VENTING = 492 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 319 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 397 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 317 SQ.IN. x 0 =	0 SQ.IN.
HIGH ROOF VENTING	492 SQ.IN. REQUIRED	HIGH ROOF VENTING	319 SQ.IN. REQUIRED	HIGH ROOF VENTING	397 SQ.IN. REQUIRED	HIGH ROOF VENTING	317 SQ.IN. REQUIRED
PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED
(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA
(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Exhaust Vent @ 254 NFA =	254 SQ.IN./FT NFA
TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED

Zone N		Zone O		Zone P		Zone Q	
AREA TO BE VENTED	871 S.F.	AREA TO BE VENTED	1042 S.F.	AREA TO BE VENTED	1215 S.F.	AREA TO BE VENTED	1345 S.F.
VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300	VENTING CALCULATION FACTOR PER IBC	300
TOTAL REQUIRED VENTING = (871 S.F. x 144) / 300 =	418 SQ.IN.	TOTAL REQUIRED VENTING = (1042 S.F. x 144) / 300 =	500 SQ.IN.	TOTAL REQUIRED VENTING = (1215 S.F. x 144) / 300 =	583 SQ.IN.	TOTAL REQUIRED VENTING = (1345 S.F. x 144) / 300 =	646 SQ.IN.
HIGH ROOF VENTING = 418 SQ.IN. x 1 =	418 SQ.IN.	HIGH ROOF VENTING = 500 SQ.IN. x 1 =	500 SQ.IN.	HIGH ROOF VENTING = 583 SQ.IN. x 1 =	583 SQ.IN.	HIGH ROOF VENTING = 646 SQ.IN. x 1 =	646 SQ.IN.
LOW ROOF VENTING = 418 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 500 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 583 SQ.IN. x 0 =	0 SQ.IN.	LOW ROOF VENTING = 646 SQ.IN. x 0 =	0 SQ.IN.
HIGH ROOF VENTING	418 SQ.IN. REQUIRED	HIGH ROOF VENTING	500 SQ.IN. REQUIRED	HIGH ROOF VENTING	583 SQ.IN. REQUIRED	HIGH ROOF VENTING	646 SQ.IN. REQUIRED
PROVIDED HIGH ROOF VENTING	508 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	762 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	762 SQ.IN. PROVIDED	PROVIDED HIGH ROOF VENTING	762 SQ.IN. PROVIDED
(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA	(1) Intake Vent @ 254 NFA =	254 SQ.IN./FT NFA
(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA	(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA	(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA	(2) Exhaust Vent @ 254 NFA =	508 SQ.IN./FT NFA
TOTAL ROOF VENTING PROVIDED	508 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	762 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	762 SQ.IN. PROVIDED	TOTAL ROOF VENTING PROVIDED	762 SQ.IN. PROVIDED

REFERENCE G-003 FOR GENERAL NOTES

ROOF PLAN LEGEND



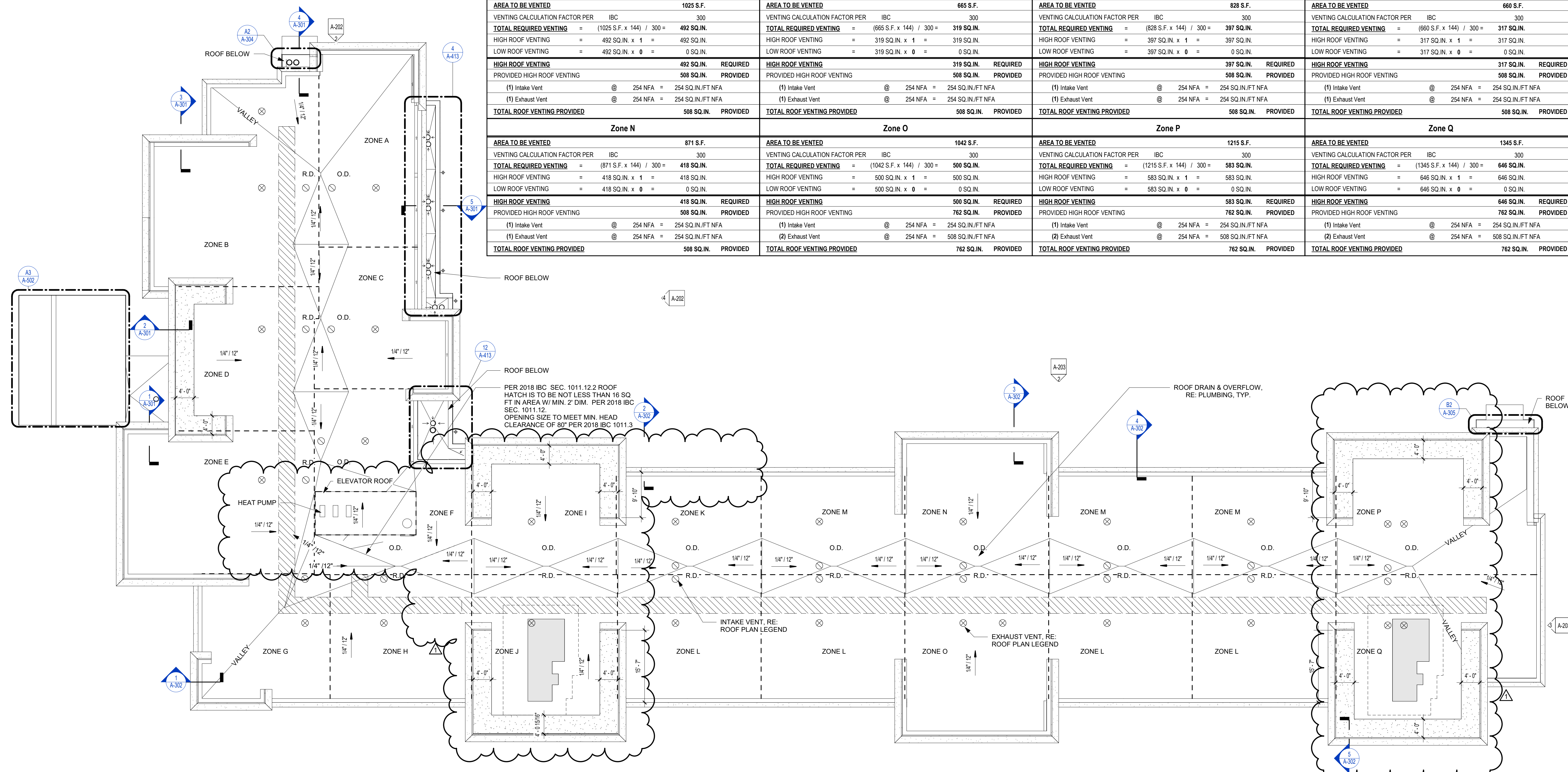
PRINTS ISSUED
11/01/2023 - CITY SUBMITTAL

REVISIONS:
1 12/22/2023 Response to City Comments
2 01/19/2024 Addendum #2

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TOWNEPLACE SUITES

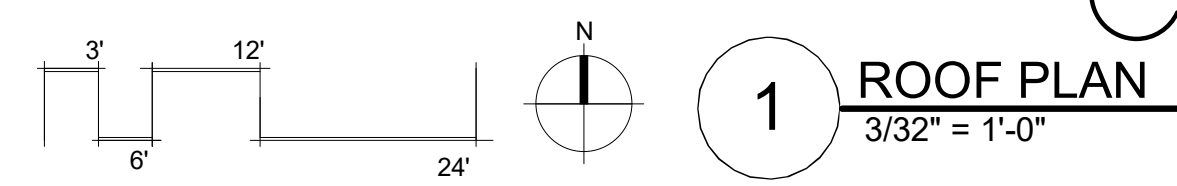
1901 NE DISCOVERY AVE.
LEE'S SUMMIT 64064 USA

SHEET TITLE
ROOF PLAN

PROJECT NUMBER: 23098

SHEET NUMBER:

A-105



1 ROOF PLAN
3/32" = 1'-0"

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REFERENCE C-003 FOR GENERAL NOTES

MATERIAL LEGEND

	MA-1 - STONE - ROCK FACE
	MA-2 - STONE SILL - SMOOTH FACE
	BR-1 - BRICK - RED
	BR-2 - BRICK - DARK RED
	BR-3 - BRICK - GREY
	MTL-1 - METAL - DARK BRONZE
	STCO - STUCCO - COLOR TO MATCH STONE
	--- BRICK RELIEF ANGLE LOCATION

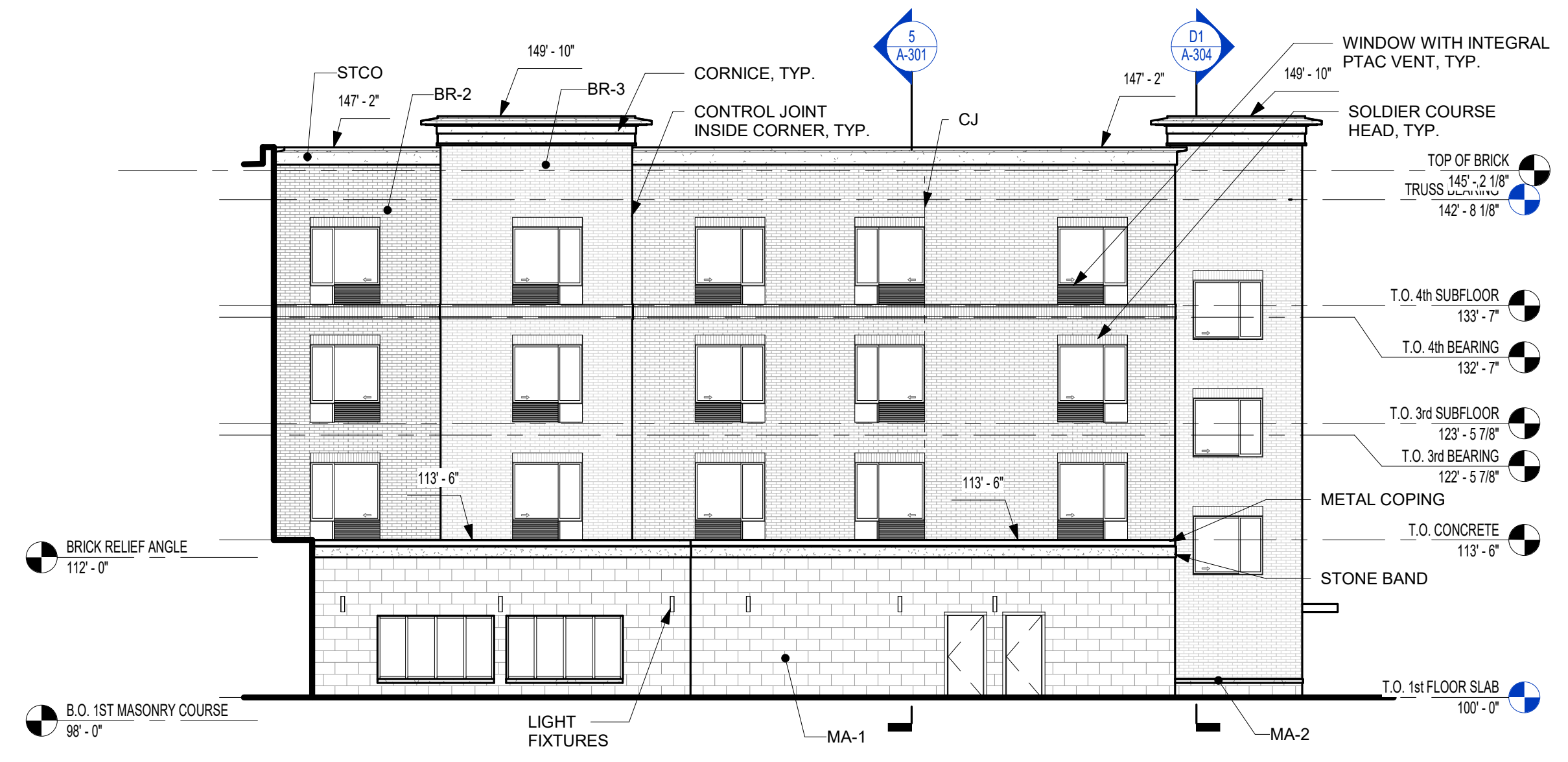
PRINTS ISSUED
11/01/2023 - CITY SUBMITTAL

REVISIONS:
1 12/22/2023 Response to City Comments
2 01/19/2024 Addendum #2
3 03/06/2024 IN RESPONSE TO GC COMMENTS

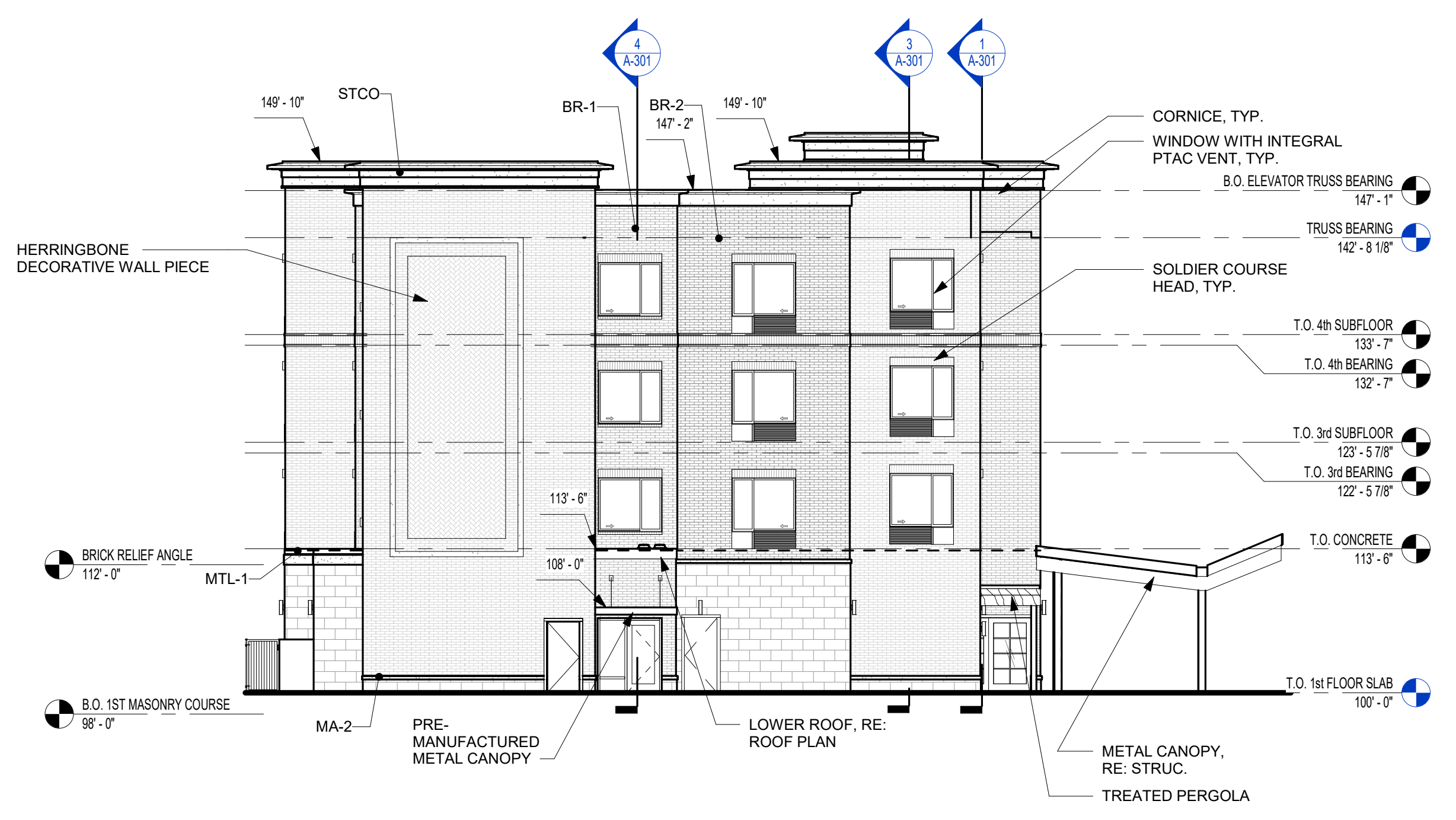
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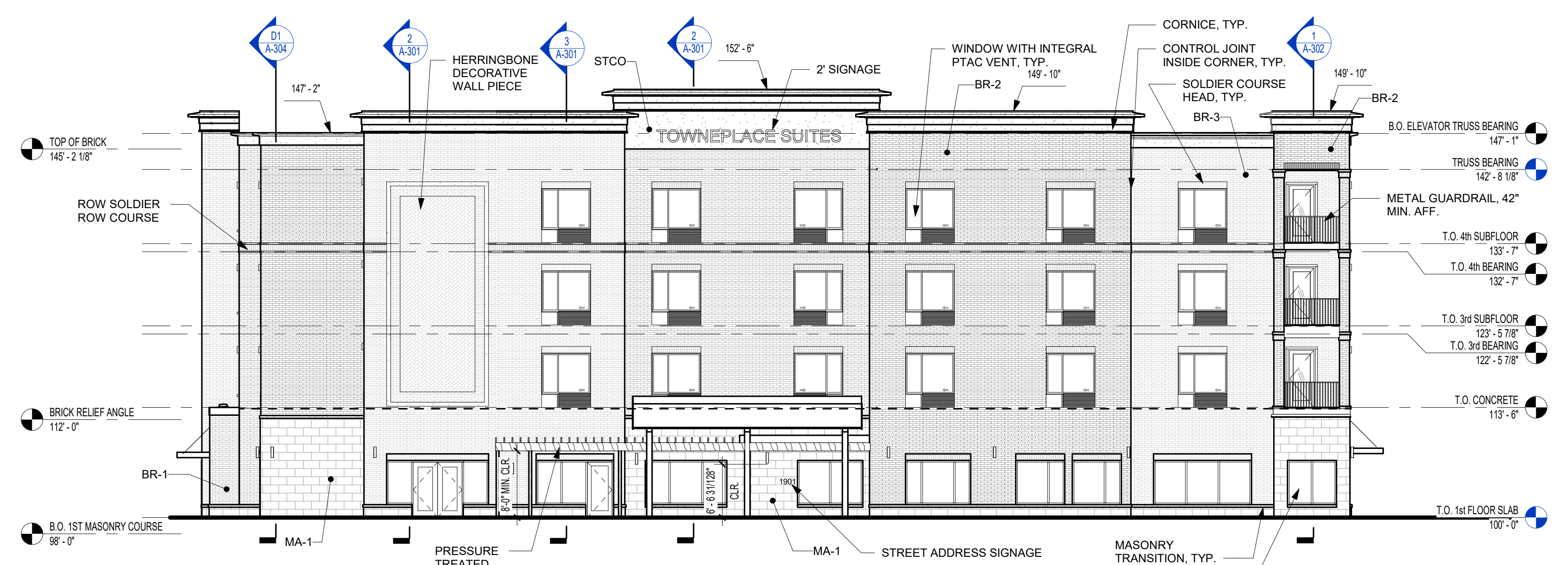
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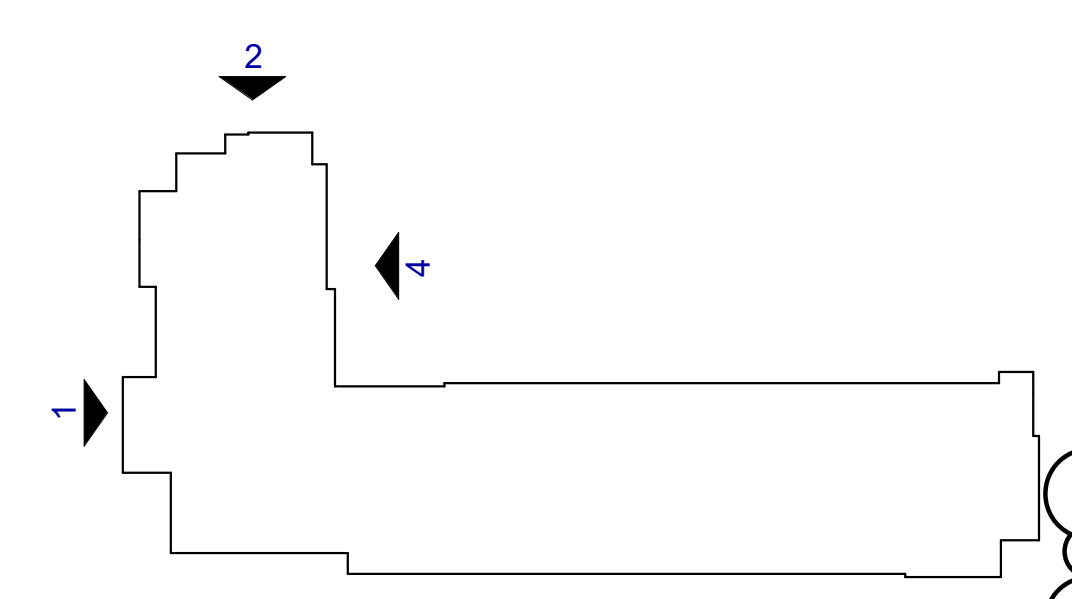
4 EAST ELEVATION (NORTH WING)
3/32" = 1'-0"



2 NORTH ELEVATION (NORTH WING)
3/32" = 1'-0"



1 WEST ELEVATION - FRONT
3/32" = 1'-0"



KEY PLAN

TOWNEPLACE SUITES
1901 NE DISCOVERY AVE.
LEE'S SUMMIT 64064 USA

SHEET TITLE
EXTERIOR ELEVATIONS

PROJECT NUMBER: 23098

SHEET NUMBER

A-200

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PRINTS ISSUED
 11/01/2023 - CITY SUBMITTAL

REVISIONS:
 1 12/22/2023 Response to City Comments
 2 01/19/2024 Addendum #2
 3 03/06/2024 IN RESPONSE TO GC COMMENTS

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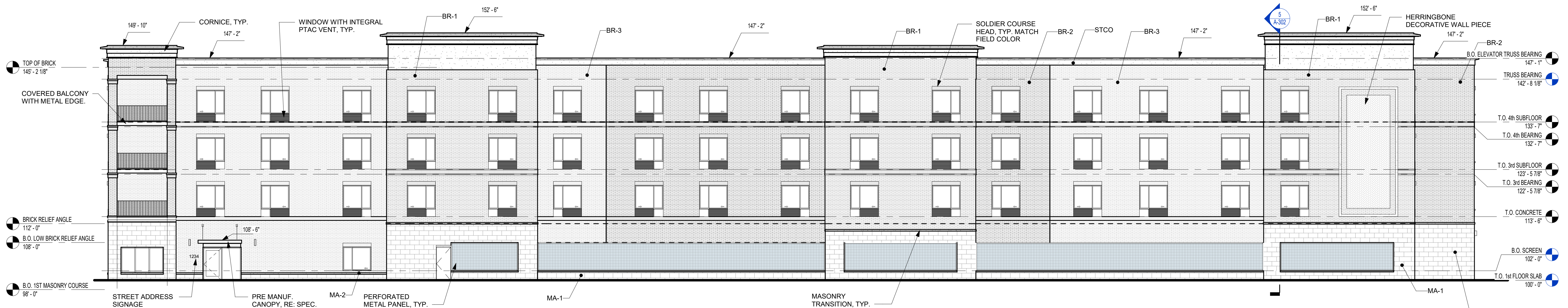
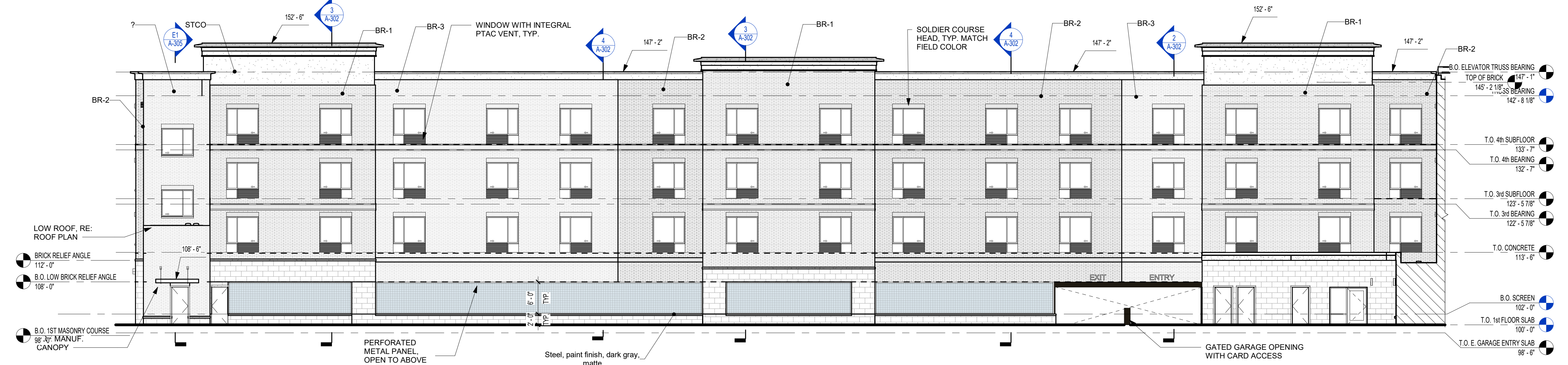
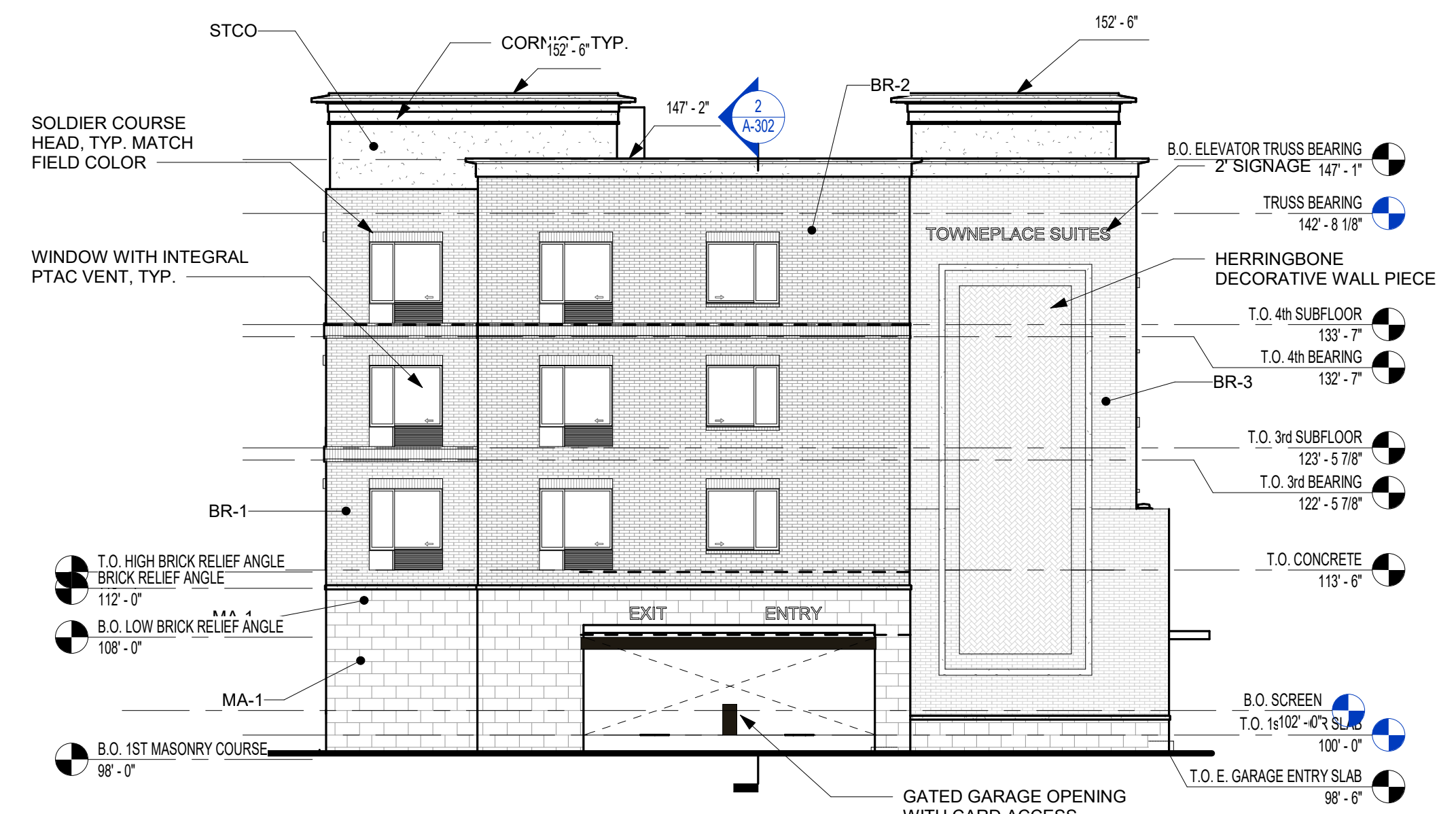
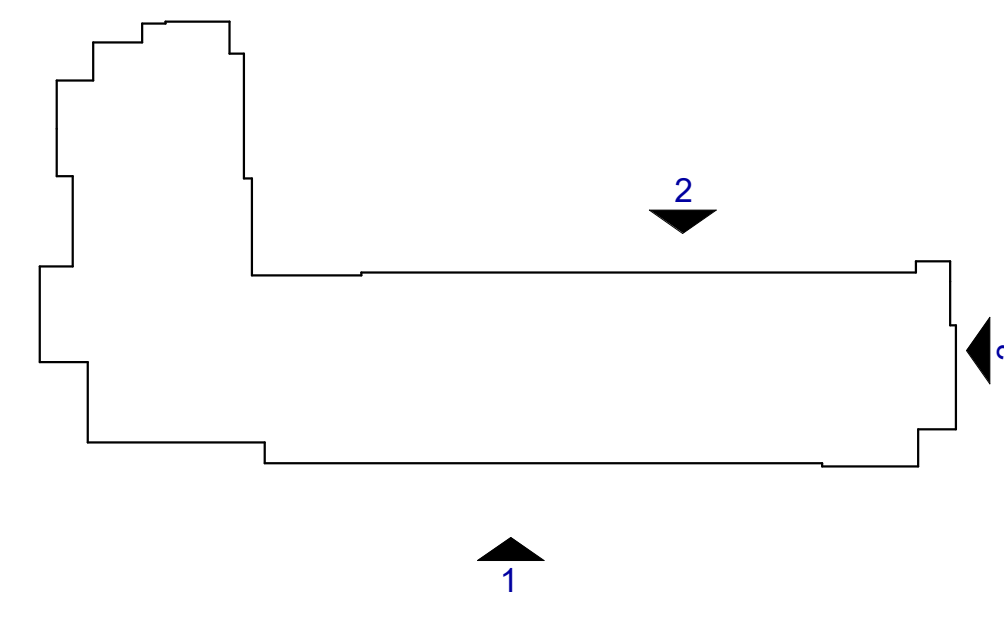
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REFERENCE 6-003 FOR GENERAL NOTES

MATERIAL LEGEND

- MA-1 - STONE - ROCK FACE
- MA-2 - STONE SILL - SMOOTH FACE
- BR-1 - BRICK - RED
- BR-2 - BRICK - DARK RED
- BR-3 - BRICK - GREY
- MTL-1 - METAL - DARK BRONZE
- STCO - STUCCO - COLOR TO MATCH STONE
- - - BRICK RELIEF ANGLE LOCATION



TOWNEPLACE SUITES

1901 NE DISCOVERY AVE.
 LEE'S SUMMIT 64064 USA

SHEET TITLE
 EXTERIOR ELEVATIONS

PROJECT NUMBER: 23098

SHEET NUMBER

A-201

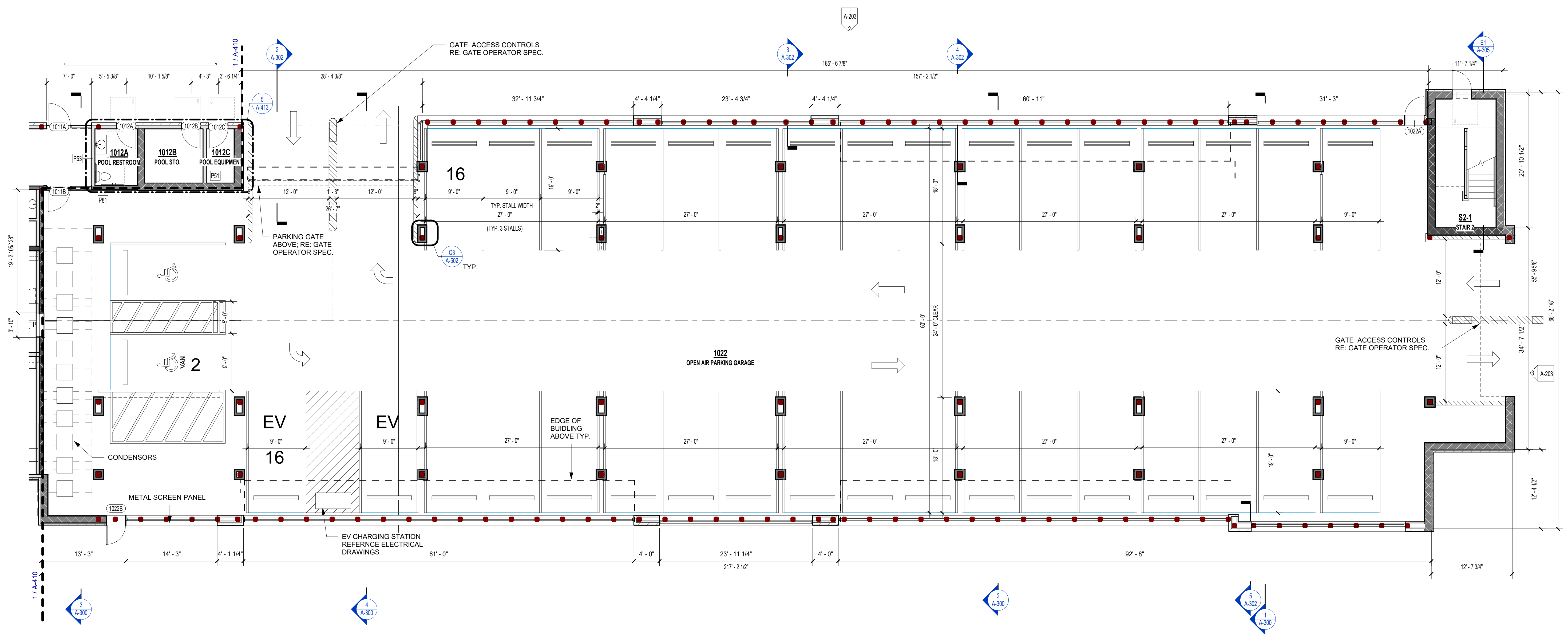
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KEYNOTE LEGEND

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1 1ST FLOOR PLAN - ZONE B - GARAGE PLAN
 1/8" = 1'-0"

TOWNEPLACE SUITES
 1901 NE DISCOVERY AVE.
 LEE'S SUMMIT 64064 USA

SHEET TITLE
 ENLARGED 1ST FLOOR PLAN -
 GARAGE PLAN

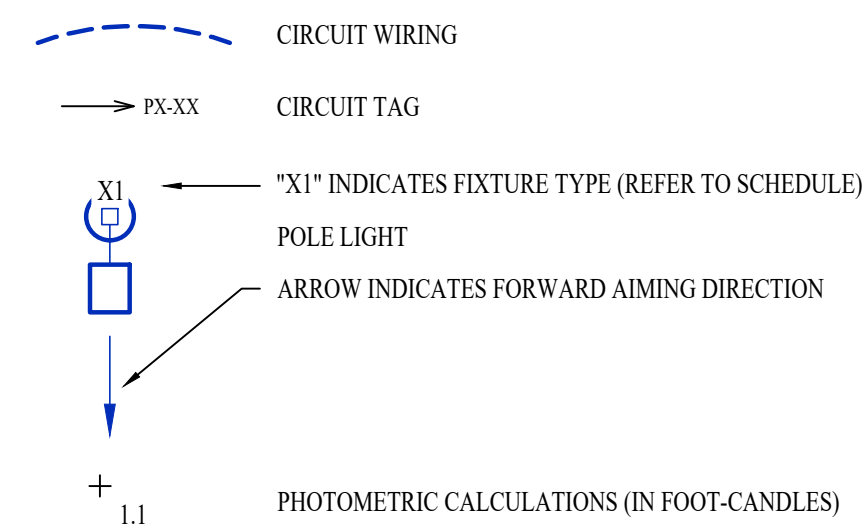
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SHEET NUMBER:

A-411

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SITE LIGHTING PLAN SYMBOL LEGEND



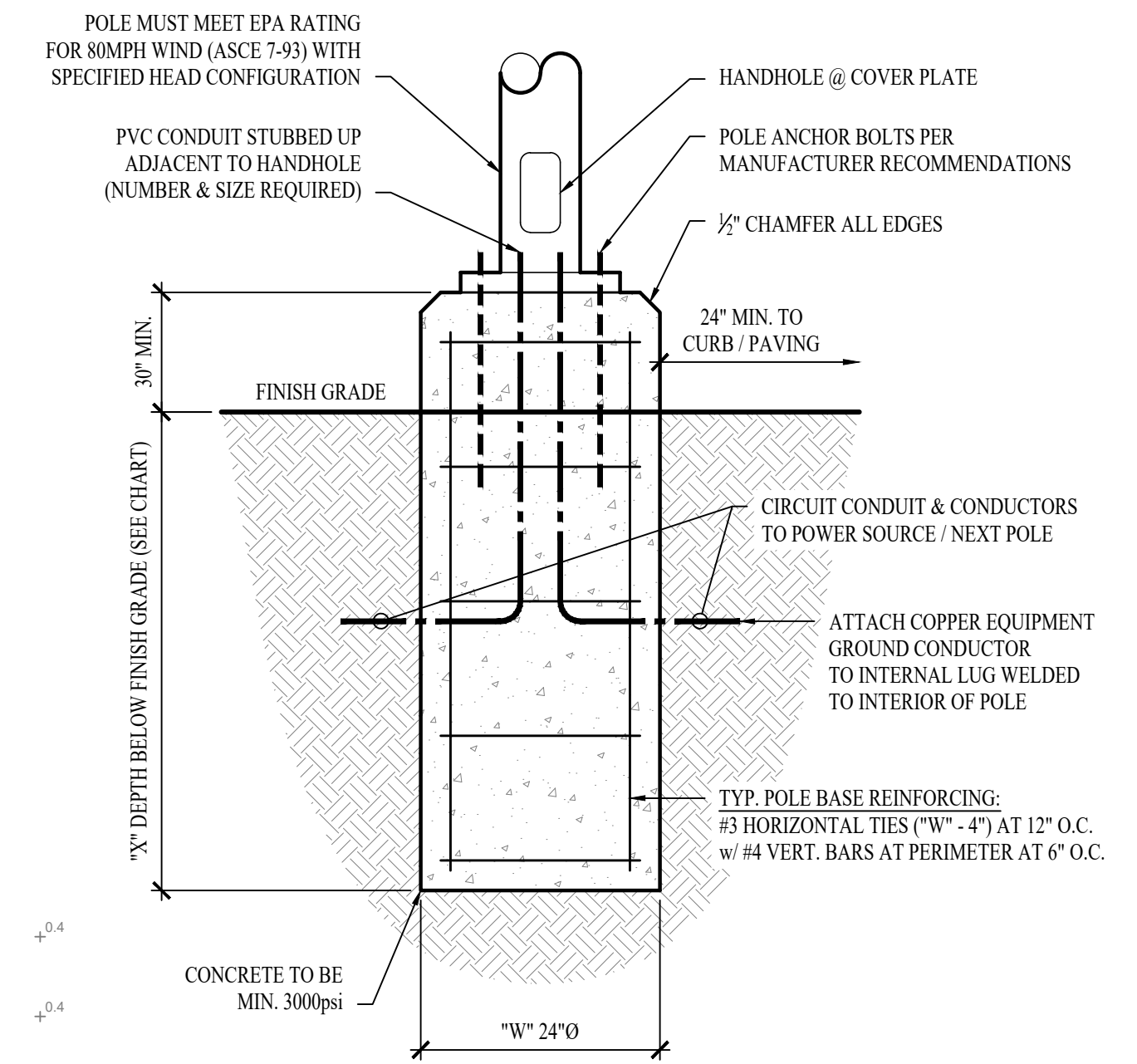
LIGHTING PLAN GENERAL NOTES:

- SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
- PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW POLE LIGHT FIXTURE(S) SHOWN.
- SEE SHEET EL101 & EL111 FOR BUILDING MOUNTED EXTERIOR LIGHT FIXTURE CIRCUITING AND ADDITIONAL DETAILS.

SITE LIGHTING PLAN KEY NOTES:

- 1" CONDUIT WITH (2) #10 CU. & (1) #10 CU. EQ. GRD.

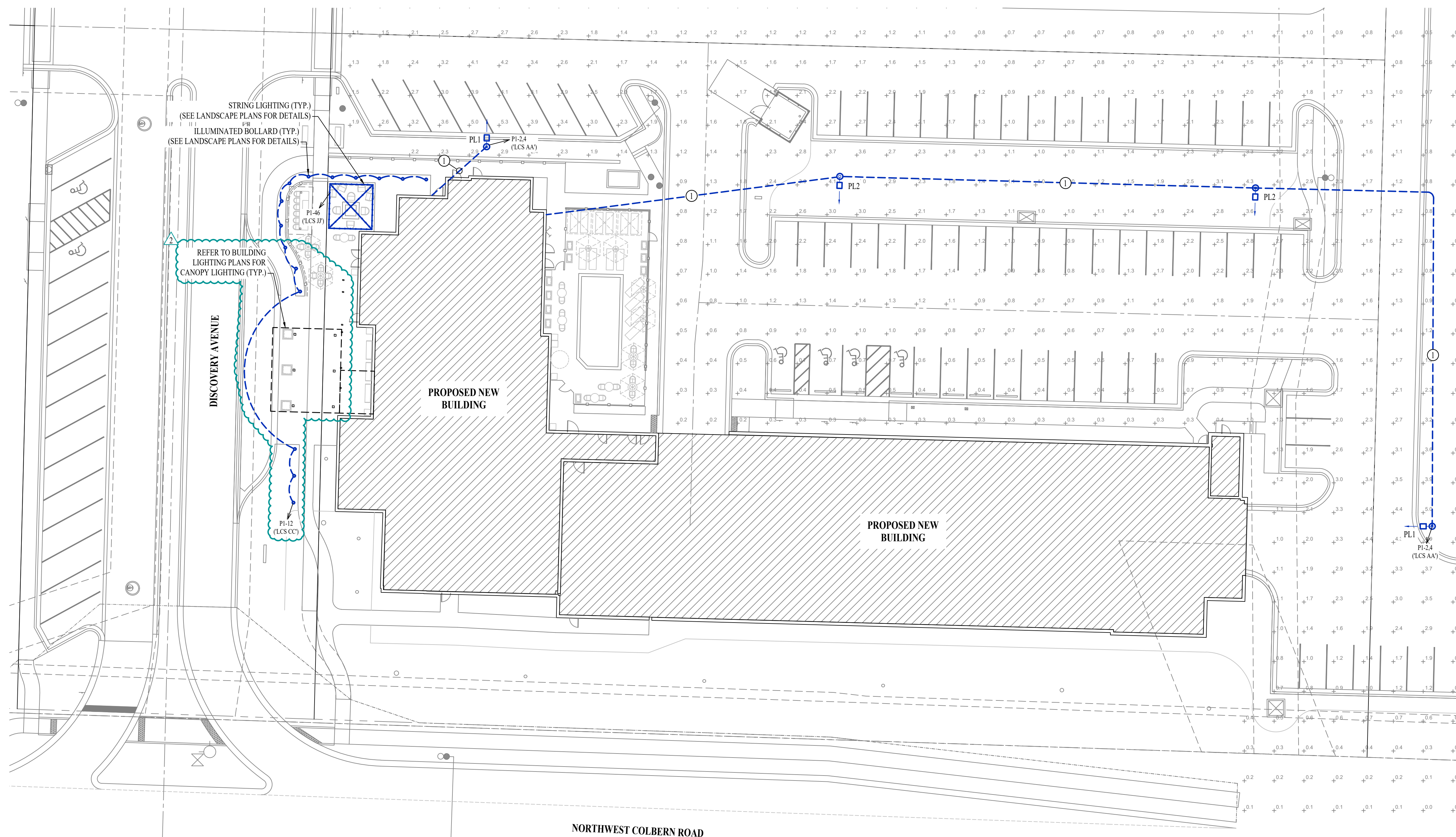
POLE HEIGHT	"X" DEPTH
10ft - 14ft	4'-6"
15ft - 20ft	6'-0"
21ft - 25ft	7'-0"
26ft - 30ft	8'-0"



TYP. LIGHT POLE DETAIL - 1

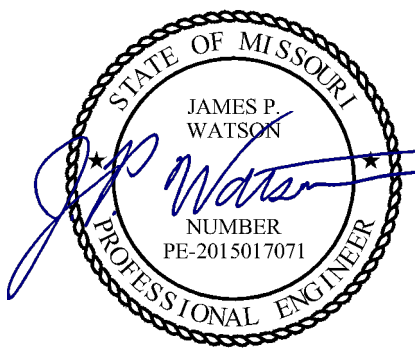
SITE LIGHTING FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
PL1	MCCGRA W EDISON	PRV-XL-PA3B-740-U-T4W-HSS	POLE LIGHT	20' #SSS POLE ON 30" BASE	24,843	4000	70	208	234	WITH #MS/DIM-L40W MOTION SENSING DIMMING
PL2	MCCGRA W EDISON	PRV-XL-PA3B-740-U-5WQ	POLE LIGHT	20' #SSS POLE ON 30" BASE	31,559	4000	70	208	234	WITH #MS/DIM-L40W MOTION SENSING DIMMING

NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION

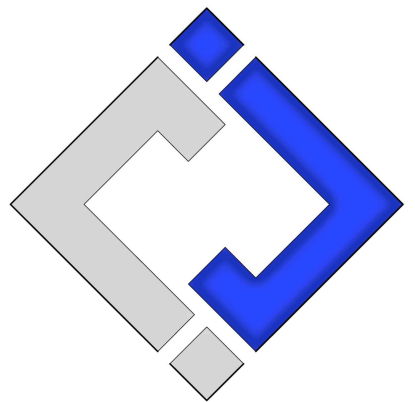


SITE LIGHTING PLAN

SCALE: 1" = 20' R



James Watson, P.E. January 19, 2024
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED ENGINEERING

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J2 PROJECT No: J21006
J2 DESIGN: ACW

ISSUE TITLE	DATE
CITY SUBMISSION	11 / 01 / 2023
REVISION 1	12 / 22 / 2023
REVISION 2	01 / 19 / 2024

Mechanical - Electrical - Plumbing Design Drawings for
Towneplace Suites By Marriott

1810 Northeast Douglas St.
Lee's Summit, Missouri 64064

AHJ APPROVAL STAMP

SHEET TITLE

SITE LIGHTING PLAN

SHEET NUMBER

MEP3