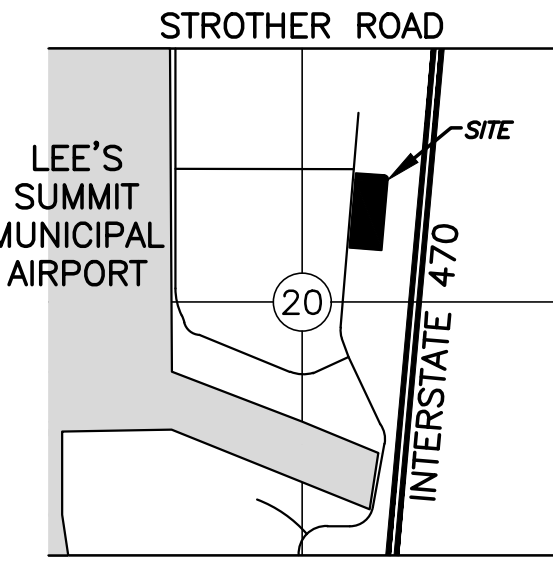
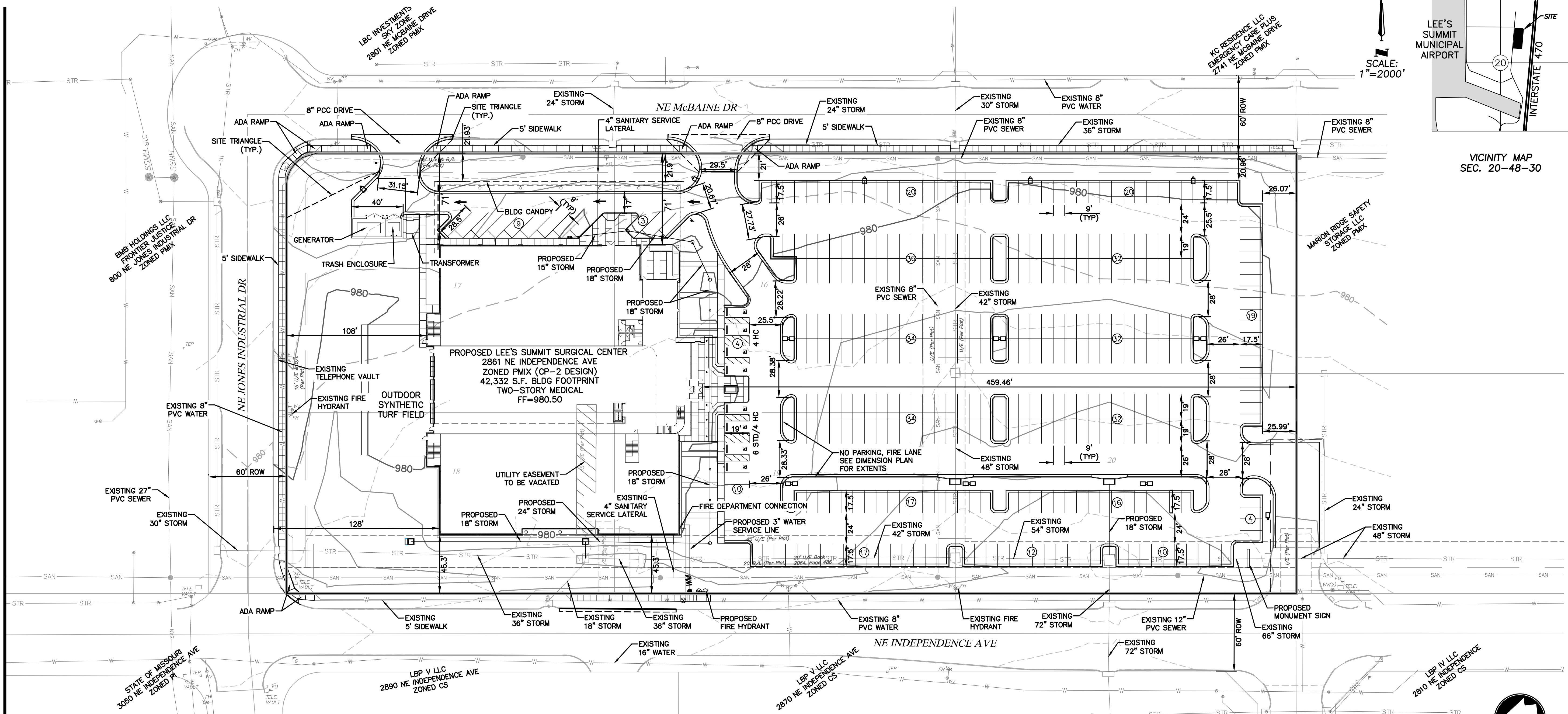


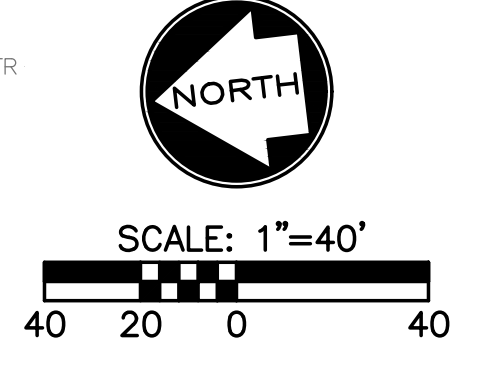
# FINAL DEVELOPMENT PLAN - LEE'S SUMMIT SURGICAL CENTER - LEE'S SUMMIT, MO

## 2861 NE INDEPENDENCE AVE.



SCALE: 1"=2000'

VICINITY MAP SEC. 20-48-30



SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C00	OVERVIEW SHEET
C01	EXISTING CONDITIONS
C02	EROSION CONTROL PHASE 1
C03	DEMOLITION PLAN
C04	EROSION CONTROL PHASE 2
C05	EROSION CONTROL DETAILS
C06	EROSION CONTROL DETAILS
C07	DIMENSION AND PARKING PLAN
C08	DIMENSION PLAN TABLES
C09	GRADING PLAN
C10	GRADING PLAN
C11	GRADING PLAN DETAIL
C12	UTILITY PLAN
C13	STORM SEWER PROFILES
C14	DRAINAGE AREA MAP
C15	STORM DESIGN TABLES
C16	LIGHTING PLAN
C17	LIGHTING DETAILS
C18	DETAILS 1
C19	DETAILS 2
C20	DETAILS 3
C21	DETAILS 4
C22	DETAILS 5
C23	STRUCTURE MODIFICATION DETAILS
L01	LANDSCAPE PLAN

PARKING INFORMATION		
ITEM	REQUIREMENTS	PROVIDED
BUILDING SIZE	-	RE: ARCHITECT
FAR = FLOOR AREA RATIO	MAX. 0.55 FAR	0.159 FAR
MINIMUM PARKING DIM.	9'x19', 9'x17' W/OVERHANG	9'x19', 9'x17' W/OVERHANG
MIN. DRIVEWAY WIDTH (TWO WAY)	24'	24'
MIN. DRIVEWAY WIDTH (ONE WAY)	16'	16'
ADA SPACES	8 (INC VAN)	8 (INC VAN)
ADA VAN ACCESSIBLE SPACES	1	2
TOTAL PARKING STALLS	5/1,000 GSF (MEDICAL OFFICE) 4.5/1,000 GSF (REHAB GYM)	361

AREA REQUIREMENTS		
LOCATION	2861 NE INDEPENDENCE AVE	
ZONE:	PMIX - PLANNED MIXED USE (CP-2 DESIGN)	
USE:	MEDICAL OFFICE	
LEGAL:	LOTS 15-20 (PROPOSED LOT 15A)	
	I-470 BUSINESS AND TECHNOLOGY CENTER	

ITEM:	REQUIREMENTS	PROVIDED
MINIMUM LOT AREA	20,000 S.F.	265,696 S.F.
MINIMUM LOT FRONTAGE	-	1,892'
MINIMUM FRONT SETBACK	15'	459.5'
MINIMUM SIDE SETBACK	10'	21.9'
MINIMUM REAR SETBACK	20'	108'
MAXIMUM BUILDING HEIGHT	40' (THREE-STORY)	RE: ARCHITECT
MAXIMUM IMPERVIOUS COVERAGE	80% (212,550 SF)	68.4% (181,700 SF)

DEVELOPER: LSMOB OWNER, LLC  
 ADDRESS: 11715 ADMINISTRATION DRIVE MARYLAND HEIGHTS, MO 63146  
 PHONE: 314.503.5006  
 CONTACT NAME: TIM BREECE

DESIGN PROFESSIONAL: SHAFER, KLINE & WARREN, INC.  
 CONTACT NAME: DAN MCGHEE  
 ADDRESS: 11250 CORPORATE AVENUE LENEXA, KS 66219  
 PHONE: 913.888.7800  
 EMAIL: DAN.MCGHEE@SKW-INC.COM

**GENERAL NOTES:**

- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY'S DESIGN AND CONSTRUCTION MANUAL, AS STATED IN ORDINANCE NO. 5813.
- PUBLIC WORKS INSPECTIONS ((816) 969-1800) MUST BE CONTACTED FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY EXCAVATION ON SITE.
- ALL PERMANENT CONCRETE CURB SHALL BE STRAIGHT BACK CURB AND GUTTER (APWA TYPE CG-1) OR INTEGRAL WITH SIDEWALK AS INDICATED HEREIN.
- AT THE HEAD OF EACH ACCESSIBLE PARKING SPACE, PROVIDE A SIGN MEETING THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE SIGN SHALL BE MOUNTED A MAXIMUM OF 6 INCHES (5 FEET) ABOVE THE GROUND MEASURED FROM THE BOTTOM OF THE SIGN. THE SIGN SHALL BE 12"x18" IN AREA.
- ALL PRIVATE SANITARY SEWER LATERALS SHALL BE 4" PVC, SDR 26, AT 2.0% MINIMUM SLOPE UNLESS NOTED OTHERWISE.
- ALL WATER LINES SHALL HORIZONTALLY CLEAR STORM SEWER STRUCTURES BY 5 FEET, SANITARY SEWER STRUCTURES BY 10 FEET, AND PIPES BY 18-INCHES VERTICALLY.
- ALL GROUND MOUNTED ELECTRICAL AND MECHANICAL EQUIPMENT LOCATED ADJACENT TO THE BUILDING AND VISIBLE FROM ANY ADJACENT PUBLIC THOROUGHFARE OR RESIDENTIAL AREA SHALL BE SCREENED FROM VIEW IN ACCORDANCE WITH CITY ORDINANCE.
- THE PROJECT IS LOCATED IN FIRM COMMUNITY PANEL NUMBER 29095C0430G, EFFECTIVE JANUARY 20, 2017, FOR THE CITY OF LEE'S SUMMIT. THE PROJECT SITE IS NOT WITHIN A 1-3% ANNUAL CHANCE FLOOD OR AREAS IMPACTED BY THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN.
- ALL SIDEWALK PAVEMENT SURFACES SHALL BE STANDARD CONCRETE PAVEMENT PER CITY SPECIFICATION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CITY'S DESIGN AND CONSTRUCTION MANUAL, SECTION 5100, AS STATED IN ORDINANCE NO. 5813.
- THE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE, BASED ON FIELD LOCATIONS, UTILITY MAPS, AND AS-BUILTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES, WHETHER SHOWN OR NOT, AND PROTECT SAID UTILITIES FROM ANY DAMAGE.
- REFER TO TYPICAL SECTION DETAILS FOR PROPOSED PAVEMENT SECTIONS.
- ACCESS TO FIRE DEPARTMENT CONNECTION AND FIRE HYDRANTS SHALL BE MAINTAINED DURING CONSTRUCTION. ACCESS MUST BE WITHIN 100 FEET OF FIRE DEPARTMENT CONNECTIONS AND ROADS SHALL BE CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS.
- PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.
- BUILDING DIMENSIONS SHOWN ON THE CIVIL ENGINEERING PLANS ARE DIMENSIONED FROM OUTSIDE FACE OF STRUCTURE, EXCLUDING DECORATIVE FAÇADE, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE THE ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
- ALL SITE DIMENSIONS ARE REFERENCED TO THE BACK OF CURBS ON THIS SHEET UNLESS OTHERWISE NOTED.
- ALL DISTURBANCE INCURRED TO ANY ADJOINING PROPERTY DUE TO CONSTRUCTION OR DEMOLITION SHALL BE RESTORED TO THE PREVIOUS CONDITION OR BETTER, AND TO THE SATISFACTION OF THE CITY INSPECTOR.



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 Licensee's Certificate of Authority Number:  
 Missouri No.: 000958 (Expires: 12.31.2017)

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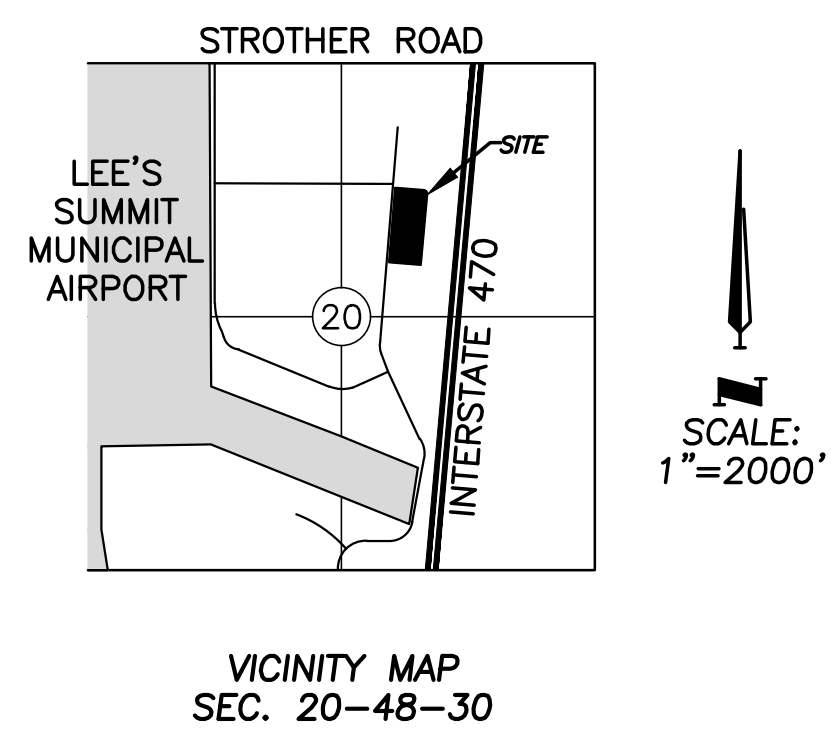
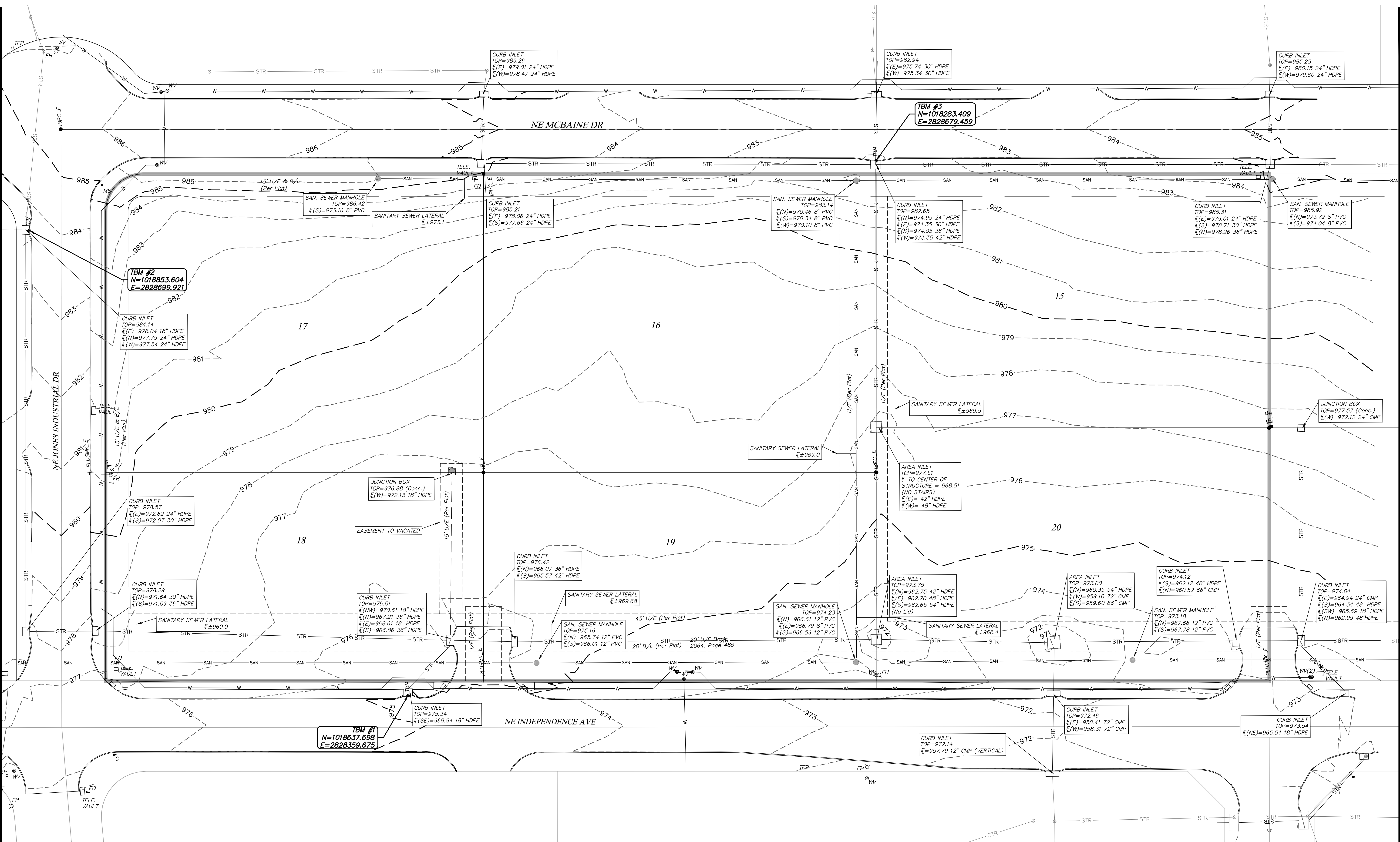
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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
 Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
Drawn By	ELM
Checked By	MDM

Revisions	Number	Date	Description
1	10/30/17		CITY COMMENTS
2	11/28/17		CITY COMMENTS



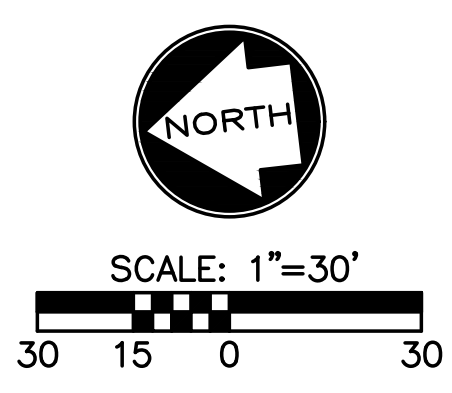
**LEGEND**

- IB\_E = EXIST IRON BAR
- IBPC\_E = EXIST. IRON BAR WITH PLASTIC CAP
- + PLUSUMK\_E = EXIST. PLUS CUT
- ▴ FO = FIBER OPTIC MARKER
- ⊕ FH = FIRE HYDRANT
- ⊕ G = GAS MARKER
- ⊕ H&V = HORIZONTAL & VERTICAL CONTROL POINT
- ⊕ MS = METAL SIGN
- SSMH = SANITARY SEWER MANHOLE
- STMH = STORM MANHOLE
- TEP = TELEPHONE PEDESTAL
- TBM = TEMP BENCHMARK
- UMH = UNKNOWN MH
- ⊕ WV = WATER VALVE

- BENCHMARK #1:** ELEV.=975.34  
 SQUARE CUT ON CENTER FRONT FACE OF CURB INLET EAST SIDE OF INDEPENDENCE AVE, FIRST INLET SOUTH OF THE INTERSECTION OF INDEPENDENCE AVE. AND JONES INDUSTRIAL.
- BENCHMARK #2:** ELEV.=984.11  
 SQUARE CUT ON CENTER FRONT FACE OF CURB INLET NORTHWEST QUADRANT OF JONES INDUSTRIAL AND MCBAIN.
- BENCHMARK #3:** ELEV.=982.64  
 SQUARE CUT ON CENTER FRONT FACE OF CURB INLET WEST SIDE OF MCBAIN AND 500' S SOUTH OF JONES INDUSTRIAL.

**GENERAL NOTES:**

1. BEARING SHOWN HEREON ARE BASED UPON THE FINAL PLAT OF I-470 BUSINESS AND TECHNOLOGY CENTER.
2. THE VERTICAL DATUM USED FOR THIS PROJECT IS: NAVD 88.
3. CONTOURS SHOWN HEREON ARE 1' CONTOUR INTERVALS.



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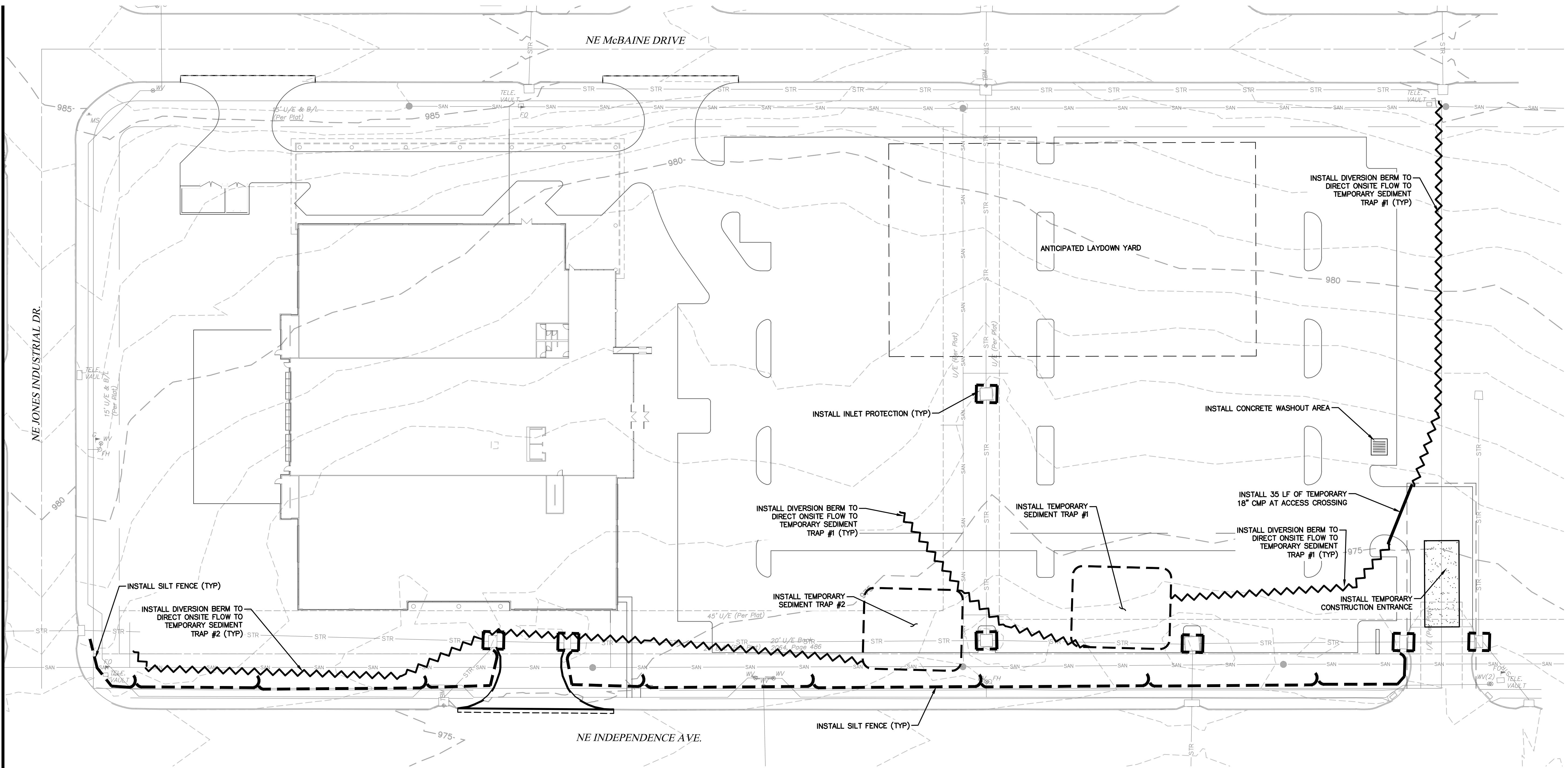
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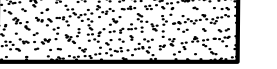


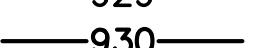



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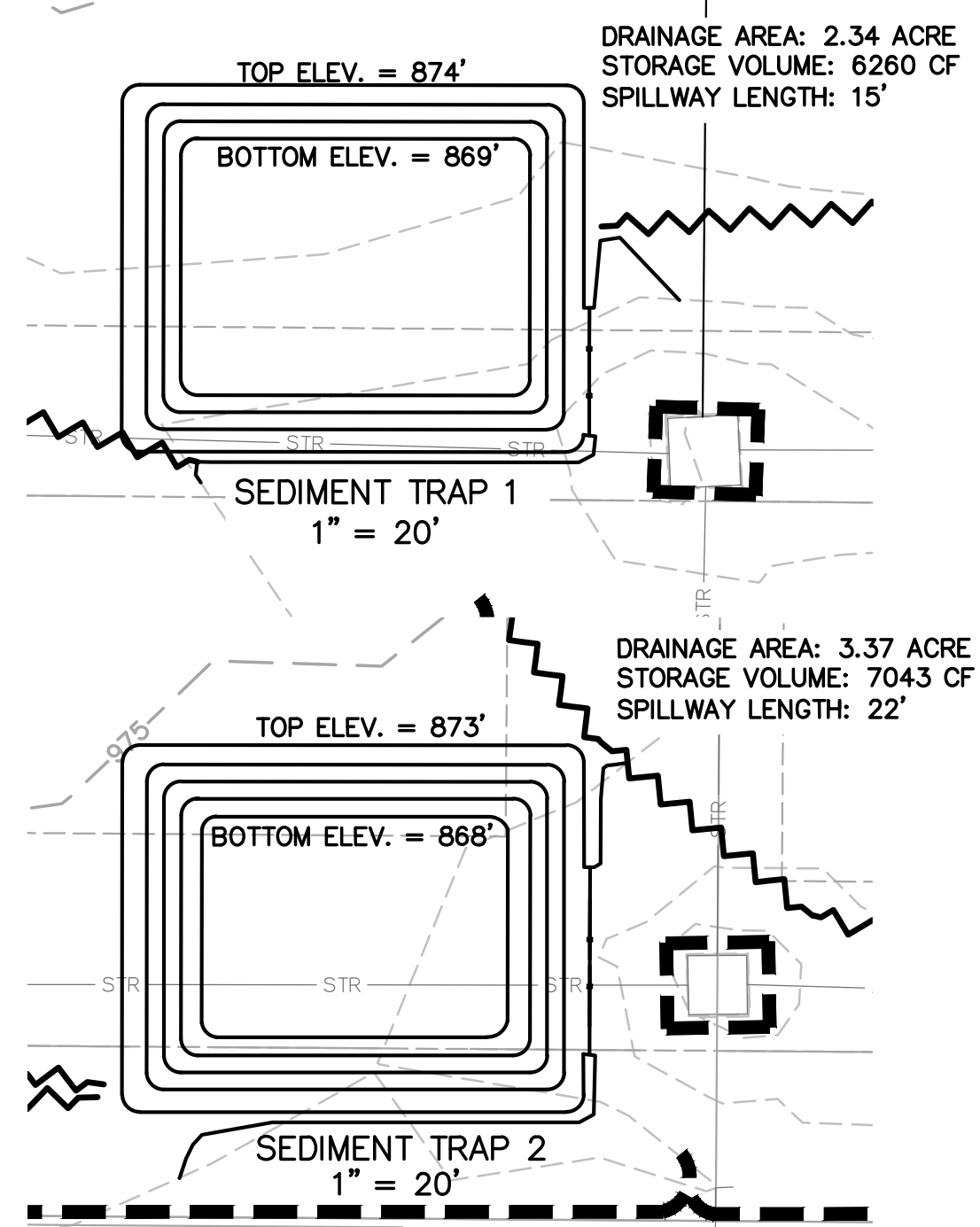
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**EROSION CONTROL LEGEND**

-  INLET PROTECTION
-  SILT FENCE
-  CONSTRUCTION ENTRANCE
-  WATTLE DITCH CHECK
-  EXISTING 1' CONTOUR
-  EXISTING 5' CONTOUR
-  PROPOSED 1' CONTOUR
-  PROPOSED 5' CONTOUR
-  DENOTES PROPOSED CONCRETE WASHOUT AREA



**PHASE 1 EROSION CONTROL NOTES:**

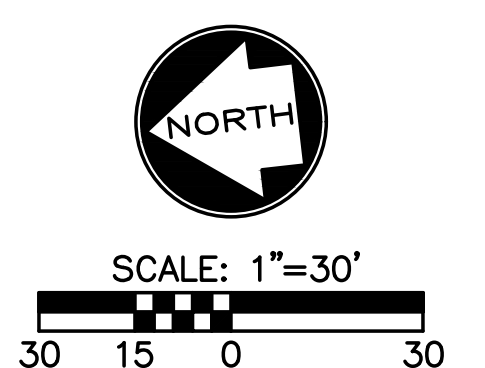
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE SWPPP. A COPY OF THE SWPPP SHALL BE AVAILABLE ON SITE AT ALL TIMES.
2. THE EROSION CONTROL FEATURES, NOTES, AND SPECIFICATIONS IN THE SWPPP REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS. LOCATIONS ARE TYPICAL AND MAY VARY ACCORDING TO CONTRACTOR'S STAGING AND LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL ADJUST, MODIFY, AND ADD TO THIS PLAN AS NECESSARY TO CONTROL EROSION, SILTATION, AND POLLUTION.
3. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION AND PREVENT POLLUTION FOR ALL WORK WHICH THEY ARE DIRECTLY INVOLVED.
4. EROSION CONTROL DEVICES SHOWN ON THIS PLAN SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR GRADING WORK.
5. WHEN POSSIBLE, WITHOUT ADVERSELY AFFECTING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL: MINIMIZE THE AMOUNT OF SURFACE AREA WHICH IS EXPOSED AT ONE TIME, LEAVE GRADED AREAS WITH A ROUGH TEXTURE, CONSTRUCT TEMPORARY TERRACES DURING GRADING OPERATIONS, AND LIMIT UNNECESSARY VEHICLE TRAFFIC IN GRADED AREAS.
6. THE SPILLAGE OF DEBRIS, INCLUDING THE TRACKING OF SOIL, OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE AVOIDED. THEREFORE THE CONTRACTOR SHALL PROVIDE AND UTILIZE STABILIZED DRIVES AT ALL ACCESS LOCATIONS AS NECESSARY AND SHALL REMOVE PROMPTLY ANY MATERIAL WHICH FINDS ITS WAY INTO THE PUBLIC RIGHT-OF-WAY.
7. SILT FENCES SHALL BE PLACED ON A CONTOUR ELEVATION ALONG THE DOWNHILL SIDE AND FOR THE FULL EXTENT OF THE DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE LAST FIVE FEET ON EACH END OF RUN OF SILT FENCE/STRAW BALE DIKE SHALL BE PLACED FACING UPHILL AT 90 DEGREES TO THE CONTOUR LINE.
8. THE CONTRACTOR SHALL INSPECT THEIR EROSION CONTROL DEVICES EVERY 7 DAYS AND WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. THE CONTRACTOR SHALL REPAIR DAMAGE, CLEAN OUT SEDIMENT AND ADD ADDITIONAL CONTROL DEVICES AS NEEDED AS SOON AS PRACTICABLE AFTER INSPECTION. DEFICIENCIES MUST BE CORRECTED WITHIN 7 DAYS OF INSPECTION.
9. ALL AREAS UPON REACHING FINAL GRADE SHALL BE BROUGHT TO FINAL TREATMENT, AS SOON AS POSSIBLE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL COVER WITH A DENSITY OF 70% (MINIMUM) IS ESTABLISHED.
10. WHERE GRADED AREAS DRAIN ONTO PAVED AREAS, SILT FENCE SHALL BE PLACED AT THE BACK OF CURB TO PREVENT SILT FROM ENTERING THE PAVED AREAS. WHEN THESE EROSION CONTROL DEVICES ARE NOT PLACED ON THE CONTOUR, THEN THEY SHALL BE INSTALLED AT 50 FOOT INTERVALS WITH A 5 FOOT LENGTH PLACED AT 90 DEGREES TO THE MAIN LENGTH.
11. REMOVE CONCRETE WASH OUT AREA AFTER ALL CONCRETE WORK IS COMPLETE. AFTER REMOVAL OF THE CONCRETE WASHOUT AREA THE CONTRACTOR SHALL ESTABLISH PERMANENT GROUND COVER (SEED) IN THE AREA WHERE THE WASH OUT WAS LOCATED.
12. ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION AFTER STORM SEWER CONSTRUCTION. SEE PHASE 2 EROSION CONTROL PLAN FOR NEW INLET LOCATIONS AND ADDITIONAL REQUIREMENTS.
13. ALL TREES LOCATED INSIDE THE GRADING LIMITS SHALL BE REMOVED.

**EROSION CONTROL GENERAL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS AND PUBLIC STORMWATER INFRASTRUCTURE ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
2. CONTRACTOR SHALL REFER TO THE SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MDRN LAND DISTURBANCE PERMIT FOR ADDITIONAL REQUIREMENTS AND BEST MANAGEMENT PRACTICES.
3. ALL WASTE MATERIAL RESULTING FROM THE CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.

**PHASE 1 EROSION AND SEDIMENT CONTROL SEQUENCING:**

1. IMPLEMENT PRE-CLEARING PLAN: ALL STRUCTURAL BMPS SHOWN ON THE PLAN MUST BE IN PLACE BEFORE GENERAL CLEARING OPERATIONS. CLEARING NECESSARY TO PLACE STRUCTURAL BMPS IS THE MINIMUM REQUIRED FOR THE INSTALLATION. COORDINATE CLEARING NECESSARY TO PLACE STRUCTURAL BMPS WITH LOCAL WEATHER FORECAST SO THAT CLEARING AND PLACEMENT MAY BE COMPLETED WITHIN A FORECAST DRY PERIOD. STABILIZE ALL DIVERSION DIKES, SEDIMENT TRAPS, AND SEDIMENT BASINS WITHIN 5 DAYS AFTER INSTALLATION.
2. CLEAR AND STABILIZE WORK AREAS: GRADE BUILDING PAD AND CONTRACTOR AREAS AND PLACE ALL WEATHER SURFACE ON CONTRACTOR AREAS.



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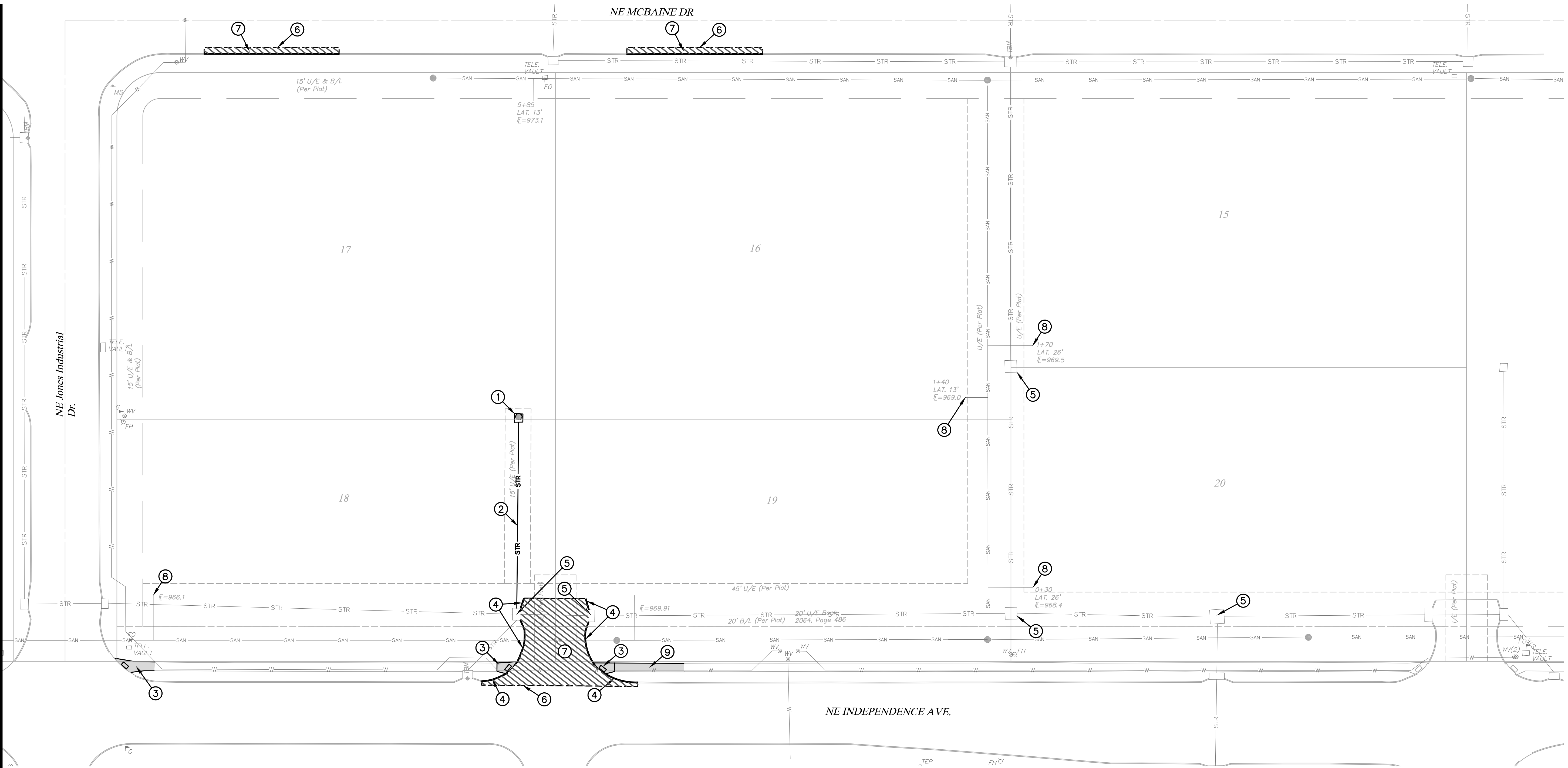
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**# DEMOLITION KEYNOTES:**

1. REMOVE EXISTING STORM STRUCTURE.
2. REMOVE EXISTING STORM SEWER PIPE.
3. REMOVE EXISTING SIDEWALK RAMP, FLARES, AND ADA DETECTION STRIP.
4. REMOVE EXISTING CONCRETE CURB.
5. EXISTING STORM STRUCTURES TO REMAIN. CONTRACTOR TO MODIFY STRUCTURES. REFER TO UTILITY PLAN AND DETAILS.
6. SAWCUT EXISTING SURFACE 2'-FT INTO EXISTING PAVEMENT.
7. REMOVE EXISTING SURFACE.
8. ABANDON IN PLACE EXISTING SANITARY SEWER LATERAL PER CITY REQUIREMENTS.
9. REMOVE EXISTING SIDEWALK FOR WATER IMPROVEMENTS.

**DEMOLITION NOTES:**

1. THE SCOPE OF DEMOLITION IS NOT LIMITED EXCLUSIVELY TO THE WORK INDICATED ON THE DEMOLITION PLAN. THE CONSTRUCTION DOCUMENTS ARE PROVIDED AS A GENERAL GUIDE FOR DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADDITIONAL WORK THAT MAY BE REQUIRED FOR PROPER INSTALLATION OF NEW WORK. SEE ALL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL UTILITIES NOT SPECIFICALLY MARKED FOR DEMOLITION, SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. SPECIAL SUPPORTS, BRACING ETC. SHOULD BE PROVIDED TO PROTECT EXISTING UTILITIES TO REMAIN.
3. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL UTILITY DEMOLITION, SHUTOFFS, AND SWITCH OVERS WITH THE RESPECTIVE UTILITY COMPANY.
4. THE CONTRACTOR SHALL PROTECT ALL ITEMS, NOT SPECIFICALLY NOTED FOR DEMOLITION. IF ITEMS ARE DAMAGED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL REPAIR THE ITEMS AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL REPAIR ALL SURROUNDING PAVEMENTS, SIDEWALKS, AND CURBS DAMAGED BY CONSTRUCTION ACTIVITIES.
6. ALL UTILITY BOXES, MANHOLES, VALVES, POLES AND OTHER APPURTENANCES, TO REMAIN, SHALL BE ADJUSTED TO MATCH THE FINISHED GRADE.



SCALE: 1"=30'  
 30 15 0 30



Mark Daniel McGhee Jr.  
 Civil Engineer  
 MO# PE-2008019568



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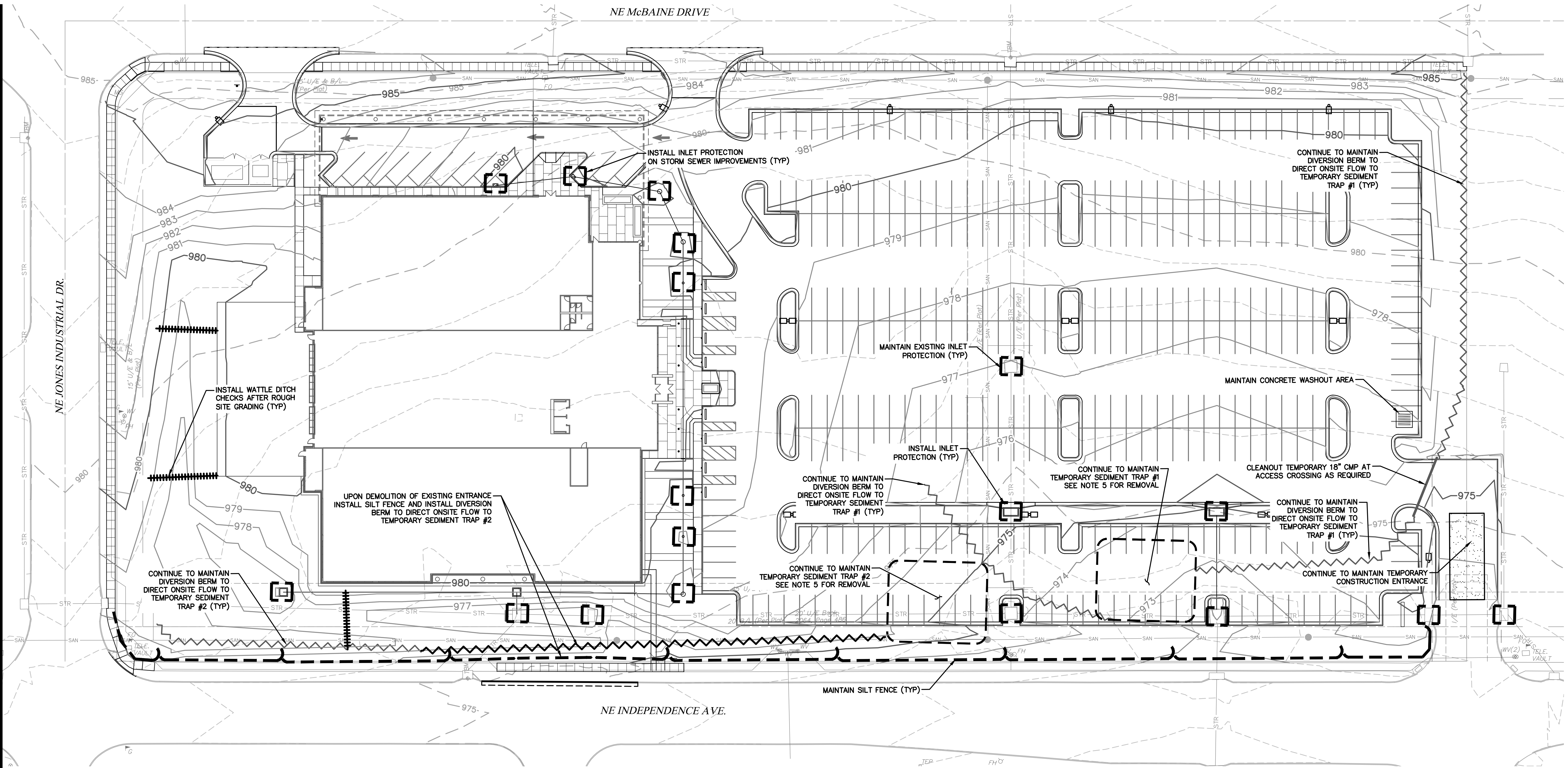
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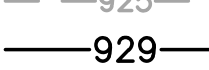
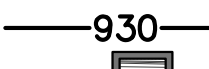



Proposed New Core & Shell Building For:  
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 Lee's Summit, Missouri

Date 9/22/17  
 Job Number 170534-010  
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Number	Date	Description
1	10/30/17	CITY COMMENTS
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**EROSION CONTROL LEGEND**

-  INLET PROTECTION
-  SILT FENCE
-  CONSTRUCTION ENTRANCE
-  WATTLE DITCH CHECK
-  EXISTING 1' CONTOUR
-  EXISTING 5' CONTOUR
-  PROPOSED 1' CONTOUR
-  PROPOSED 5' CONTOUR
-  DENOTES PROPOSED CONCRETE WASHOUT AREA

**PHASE 2 EROSION AND SEDIMENT CONTROL SEQUENCING:**

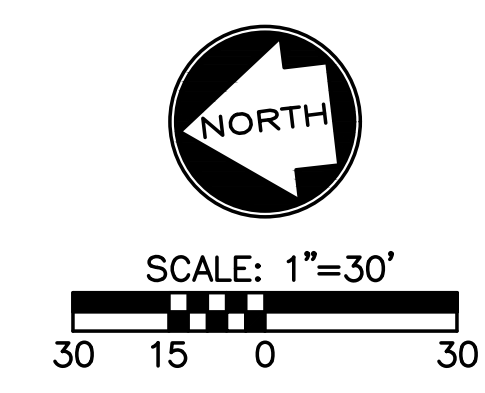
1. BUILDING TOP-OUT: COMPLETE BUILDING FOUNDATION, FRAMING, SIDING AND ROOF INSTALLATION INCLUDING UTILITY SERVICES.
2. STABILIZE INACTIVE AREAS: THE GROUND COVER AND OTHER STRUCTURAL BMPs SHOWN ON THE PHASE 2 STABILIZATION MUST BE PLACED WITHIN 14 DAYS OF CESSATION OF GROUND DISTURBING ACTIVITY AT THE LOCATION OF THE BMP, BUT IN NO CASE LATER THAN 14 DAYS FROM BUILDING TOP OUT. IN DETERMINING THE INACTIVE STATUS OF THE GROUND, EVALUATE EACH PORTION OF THE SITE SEPARATELY. THE NEED FOR SUBSEQUENT PLACEMENT OF TRENCHED UTILITIES, PAVEMENT OR OTHER CONSTRUCTION IN AN OTHERWISE INACTIVE AREA IS NOT JUSTIFICATION FOR DELAY OF STABILIZATION.
3. FINISH INTERIOR: CONSTRUCTION THE INTERIOR OF THE STRUCTURE AND MINOR STRUCTURES DEPICTED ON THE CONSTRUCTION PLANS.
4. IMPLEMENT FINAL STABILIZATION: PLACE PERMANENT SITE COVER. COORDINATE REMOVAL OF CONSTRUCTION PHASE BMPs NECESSARY TO PLACE FINAL STABILIZATION WITH LOCAL WEATHER FORECAST SO THAT REMOVAL AND PLACEMENT MAY BE COMPLETED WITHIN A FORECAST DRY PERIOD. DOWN-SLOPE PERIMETER CONTROLS SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS PLACED AND VEGETATIVE COVER IS ESTABLISHED OVER THE REMAINDER OF THE SITE.
5. ESTABLISHMENT AND FINAL CONSTRUCTION: ONCE THE REMAINDER OF THE SITE IS STABILIZED INCLUDING ESTABLISHMENT OF SEEDED COVER TYPES, CONSTRUCT PERMANENT WATER QUALITY BMPs AND REMOVE THE SEDIMENT CONTROLS AND THE REMAINING ACCESS CONTROLS. RESTORE AREA DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.
6. PLAN MODIFICATION: THE CONTRACTOR MUST MODIFY THE PLAN IF THE PLAN FAILS TO SUBSTANTIALLY CONTROL EROSION AND OFFSITE SEDIMENTATION. PLAN MODIFICATIONS DUE TO INEFFECTIVENESS MAY BE TAKEN WITHOUT PRIOR APPROVAL OF THE REVIEW AGENCY, BUT MUST BE FULL DOCUMENTED AND APPROVAL SECURED FROM THE PERMITTING AUTHORITY AS SOON AS PRACTICABLE. THE CONTRACTOR MAY MODIFY THE PLAN OR CONSTRUCTION SEQUENCE IF IMPLEMENTATION IS INFEASIBLE FOR SITE CONDITIONS OR CONTRACTOR METHODS. ANY SUCH MODIFICATION SHALL CONTROL EROSION AND OFFSITE SEDIMENTATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY SUCH MODIFICATION SHALL REQUIRE THE APPROVAL OF THE PERMITTING AUTHORITY.

**EROSION CONTROL GENERAL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS AND PUBLIC STORMWATER INFRASTRUCTURE ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
2. CONTRACTOR SHALL REFER TO THE SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MDNR LAND DISTURBANCE PERMIT FOR ADDITIONAL REQUIREMENTS AND BEST MANAGEMENT PRACTICES.
3. ALL WASTE MATERIAL RESULTING FROM THE CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.

**PHASE 2 EROSION CONTROL NOTES:**

1. CONTRACTOR SHALL INSTALL INLET PROTECTION MEASURES AFTER ALL NEW STORM SEWER STRUCTURES ARE INSTALLED.
2. CONTRACTOR SHALL MAINTAIN PHASE 2 EROSION CONTROL MEASURES, UNTIL FINAL SITE STABILIZATION HAS OCCURRED.
3. CONTRACTOR MAY MAKE ADJUSTMENTS TO EROSION CONTROL MEASURES, TO ALLOW FOR CONSTRUCTION SEQUENCING, HOWEVER THEY ARE ULTIMATELY RESPONSIBLE FOR PREVENTING STORMWATER POLLUTION RUNOFF FROM PROJECT SITE.
4. CONTRACTOR SHALL STABILIZE SLOPES AND INACTIVE AREAS WITH MULCH AND TEMPORARY SEEDING. STABILIZATION ACTIVITIES ARE TO BE INITIATED IMMEDIATELY WHEN SOIL DISTURBING ACTIVITIES CEASE AND WILL NOT RESUME FOR MORE THAN 14 DAYS. STABILIZATION ACTIVITIES ARE TO BE COMPLETED WITHIN 21 DAYS.
5. UPON FINAL SITE STABILIZATION (PAVING, LANDSCAPING, ETC.) THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES.
6. CONTRACTOR SHALL MAINTAIN THE SWPPP THROUGHOUT CONSTRUCTION.



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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
 Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
Drawn By	ELM
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Revisions	Number	Date	Description
1	10/30/17		CITY COMMENTS
2	11/28/17		CITY COMMENTS



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1 10/30/17 CITY COMMENTS  
2 11/28/17 CITY COMMENTS

AMERICAN PUBLIC WORKS ASSOCIATION  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-05  
ADOPTED: 10/24/2016

**Notes for Wattles and Biodegradable Log Slope Protection:**

- The Slope barriers shall be placed along contour lines, with a short section turned upstate 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 sloped.
- Install wattles and biodegradable logs per manufacturer's instructions.
- Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a maximum of 2 times the diameter of the log with minimum of 24".

**Notes for Mulch and Compost Filter Berm:**

- The sediment control berm shall be placed uncompact in a window at 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 permanent 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, sub-grinder or other approved method. Mulch shall be applied with a maximum width of 2' and a maximum length of 10'.

**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.

**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM  
STANDARD DRAWING NUMBER ESC-04  
ADOPTED: 10/24/2016

**Notes:**

- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- Attach fabric to upstream side of post.
- Install posts a minimum of 2' into the ground.
- Trenching will only be allowed for small or difficult installation, where staking machine cannot be reasonably used.

**Maintenance:**

- Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
- Repair as necessary to maintain function and structure.

**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
SILT FENCE  
STANDARD DRAWING NUMBER ESC-03  
ADOPTED: 10/24/2016

**Notes for Concrete Washout:**

- Concrete washout areas shall be installed prior to any concrete placement on site.
- Concrete washout area shall include a flat subsurface pit above relative to the amount of concrete to be placed on site. The slope leading out of the subsurface pit shall be 2:1. The vehicle tracking pad shall be placed towards the concrete washout area.
- Vehicle tracking control is required of the access point to all concrete washout areas.
- Slope shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
- A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

**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 entered 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.
- Concrete washout areas shall remain in place until all concrete for the project is placed.
- When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and basins and disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.

**Notes for Diversion Berm:**

- Slope drains are optional, but may be required by the engineer if the berm is at the top of a steep slope.
- Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
- The berm should be adequately compacted to prevent failure.
- Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
- Place the berm so to minimize damages by construction operations and traffic.
- The berm must discharge to a temporary sediment trap or stabilized area.
- All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of as to not interfere with the proper functioning of diversion.
- The diversion shall be excavated or shaped to line, grade and cross-section as required to meet the criteria specified herein. Free of irregularities which will impede flow.
- Fill shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion. Fill shall be composed of soil which is free from excessive organic debris, rocks or other objectionable materials.

**Maintenance:**

- Berm shall be reshaped, compacted, and stabilized as necessary to maintain its function.
- Breaches in the berm shall be repaired immediately.

**Notes for Slope Drain:**

- Slope Drain and Diversion Berm may be used on either project foretop or project backslope.
- Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
- Pipe shall be secured in place as approved by Engineer.

**Maintenance:**

- Accumulation of any visible sediment at the inlet and outlet shall be removed promptly.
- Outlet conditions shall be repaired if scour is observed. Leaking or damaged section of pipe shall be repaired immediately.
- Barriers directing water to the inlet shall be monitored for continuity and effectiveness.

**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
DIVERSION BERMS AND SLOPE DRAINS  
STANDARD DRAWING NUMBER ESC-05  
ADOPTED: 10/24/2016

**Notes for Construction Entrance:**

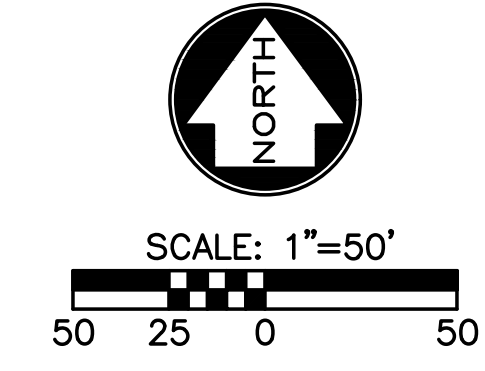
- Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3:1 side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- Place slope to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- Divert all surface runoff and drainage from the entrance to a sediment control device.
- If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

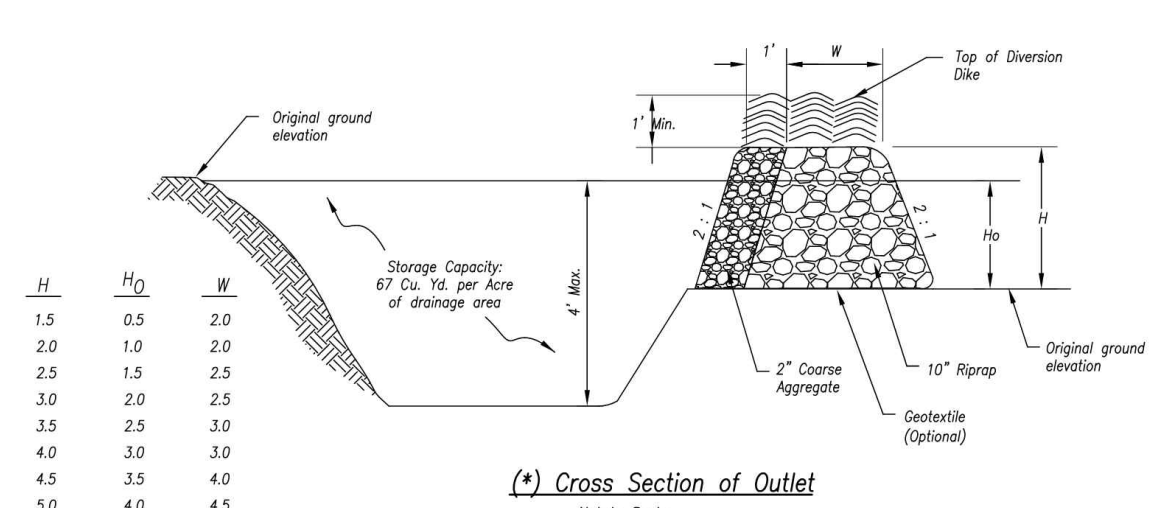
**Maintenance for Construction Entrance:**

- Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

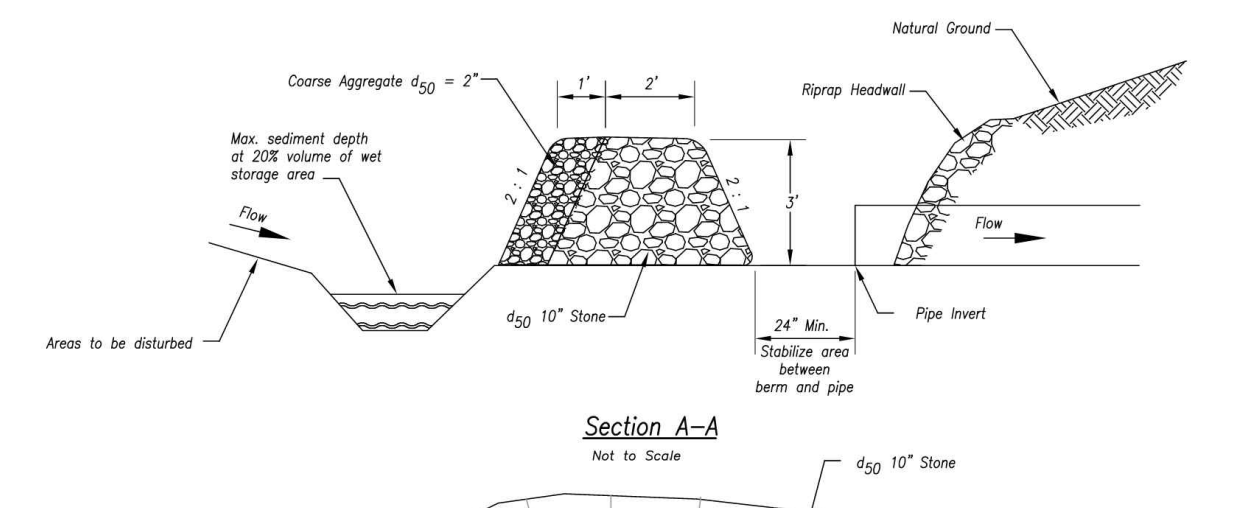
**CONCRETE WASHOUT**

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

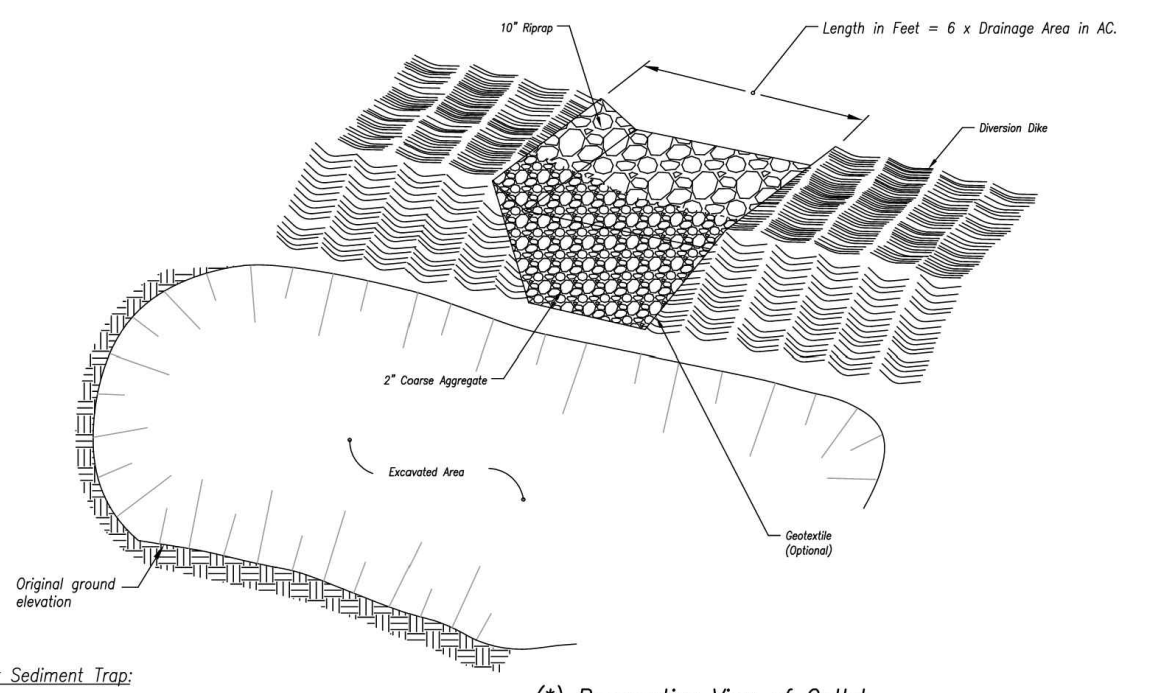




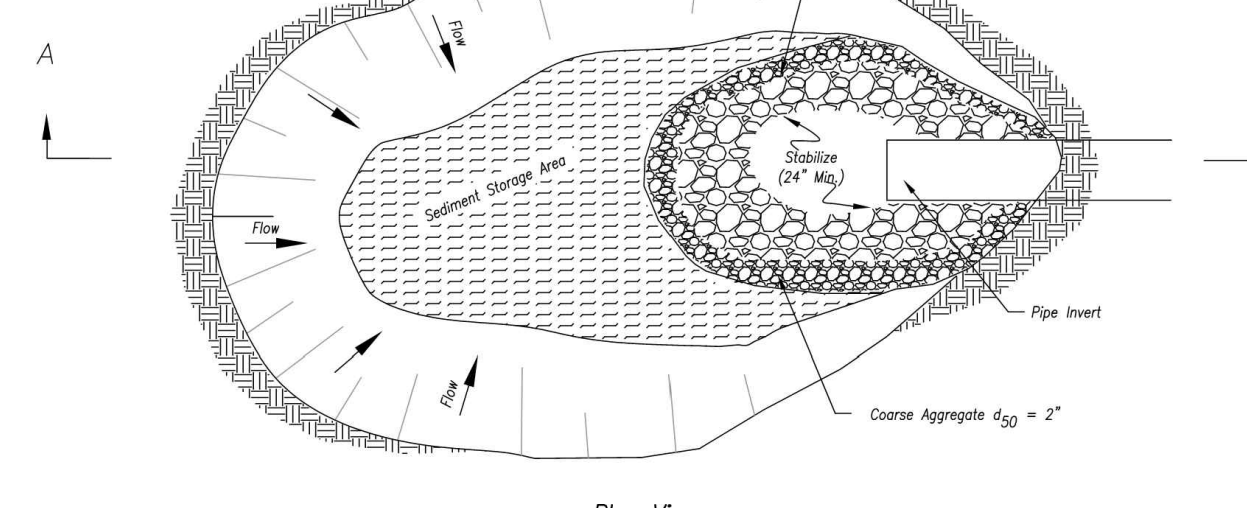
(\*) Cross Section of Outlet  
Not to Scale



Section A-A  
Not to Scale



(\*) Perspective View of Outlet  
Not to Scale



Plan View  
Not to Scale

- Notes for Sediment Trap:**
- The area under the embankment shall be cleared, grubbed, and stripped of any vegetation and root mat.
  - Fill material for the embankment shall be free of roots or other woody vegetation, organic materials, large stones, and other objectionable material. The embankment should be compacted in 6-inch layers by tamping with construction equipment.
  - The northern embankment shall be stabilized immediately after installation.
  - Construction operations shall be carried out to minimize erosion and water pollution.
  - The structure shall be removed and the area stabilized when the upstate storage area has been stabilized.
  - All cut and fill slopes shall be 2H : 1V or flatter, except for excavated wet storage areas which may be at a maximum 1H : 1V grade.

**Maintenance for Sediment Trap:**

- Check sediment traps after periods of significant runoff.
- Remove sediment and restore the trap to its original dimensions when sediment accumulates to 20% of the storage capacity.
- Immediately repair any erosion damage to the embankment and outlet.
- Keep outlet and pool area free of all trash and other debris.

**SEDIMENT TRAP**

- Notes for Sediment Trap at Culvert Opening:**
- The inlet protection device shall be constructed in a manner that will facilitate clean-out and disposal of trapped sediment and minimum interference with construction activities.
  - The inlet protection device shall be constructed in such manner that any residual ponding diameter will not cause excessive inconvenience or damage to adjacent areas or structures.
  - Geometry of the design will be a horseshoe shape around the culvert inlet.
  - The toe of the riprap shall be no closer than 24" from the culvert opening to provide an acceptable emergency outlet for flows from larger storm events.
  - Storage requirements equivalent to that of temporary sediment trap.
  - 67 CY/Acre wet storage below base of stone.
  - 67 CY/Acre dry storage from base of stone to top of stone berm.

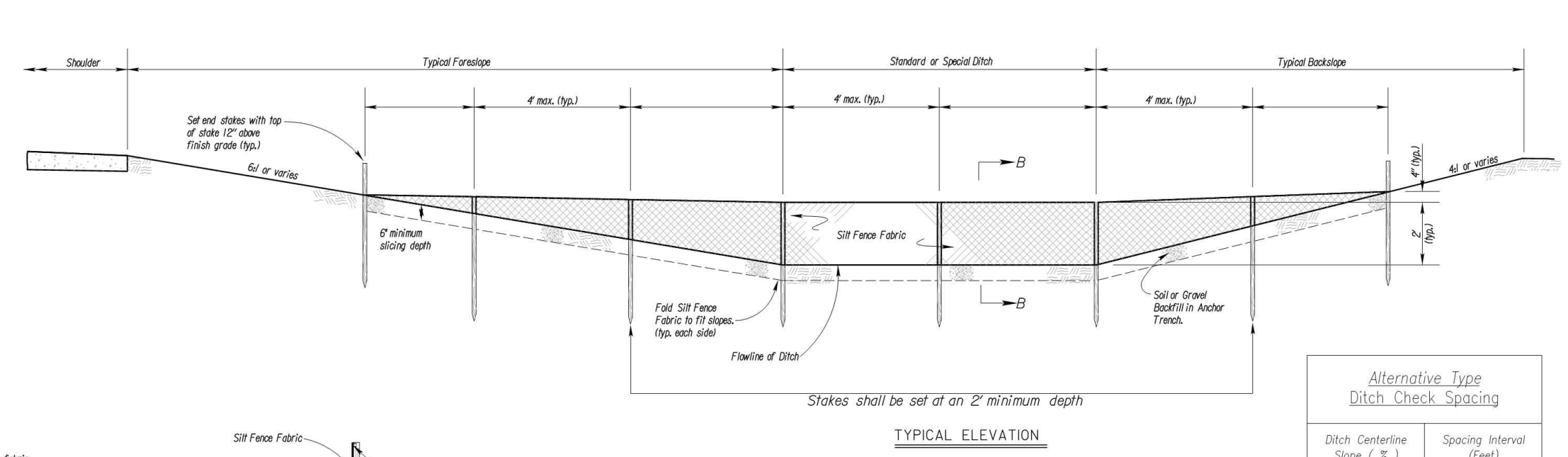
**Maintenance for Sediment Trap at Culvert Opening:**

- Check sediment traps after periods of significant runoff.
- Remove sediment and restore the trap to its original dimensions when sediment accumulates to 20% of the storage capacity.
- Immediately repair any erosion damage to the embankment and outlet.
- Keep outlet and pool area free of all trash and other debris.

**SEDIMENT TRAP AT CULVERT OPENING**

**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-08  
ADOPTED: 10/24/2016

- Notes for Silt Fence Ditch Check:**
- Stakes shall be 4" (min.) long and one of the following materials:
    - Hardwood - 1 3/4" x 1 3/4"
    - Southern Pine (No. 2) - 2 3/4" x 2 3/4"
    - Steel (L, T, L or C Section) - .95 lbs. per 1'-0"
    - Synthetic - same strength as wood stakes.
  - Cross pieces shall be of same material as stakes.
  - Attach fence fabric securely on 6" centers (max.).
  - Use of high flow material is acceptable.
  - Refer to plan sheets to estimate the length of silt fence required.
  - Use support fencing when tributary area is greater than 2.4 acres or when ditch gradient is greater than 2 percent.
  - Silt fence sliced in to a 6" minimum depth.
  - Direction of tie in points shall be a minimum of 4" higher than the center.

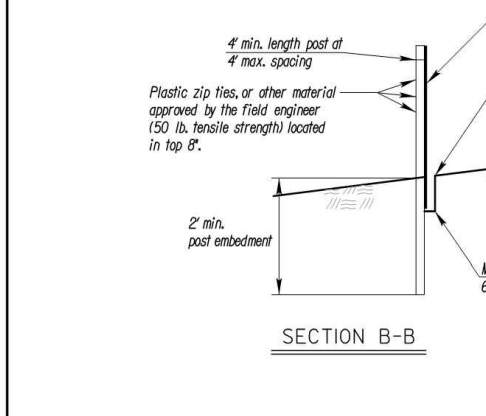


**SILT FENCE DITCH CHECK**  
NO SCALE

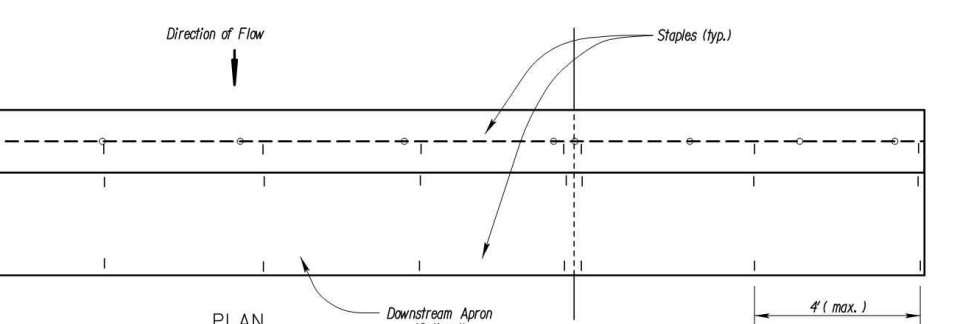
**Alternative Type Ditch Check Spacing**

Ditch Centerline Slope ( % )	Spacing Interval (Feet)
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	33

Note: Use this spacing for all except Rock Ditch Checks.



SECTION B-B

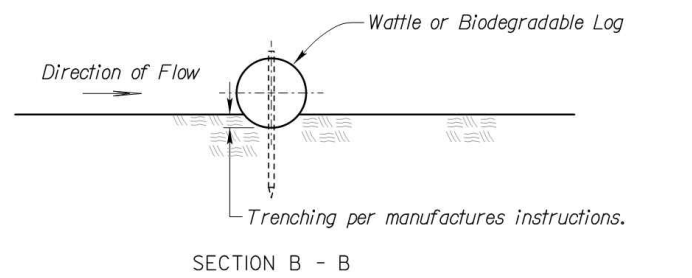


PLAN

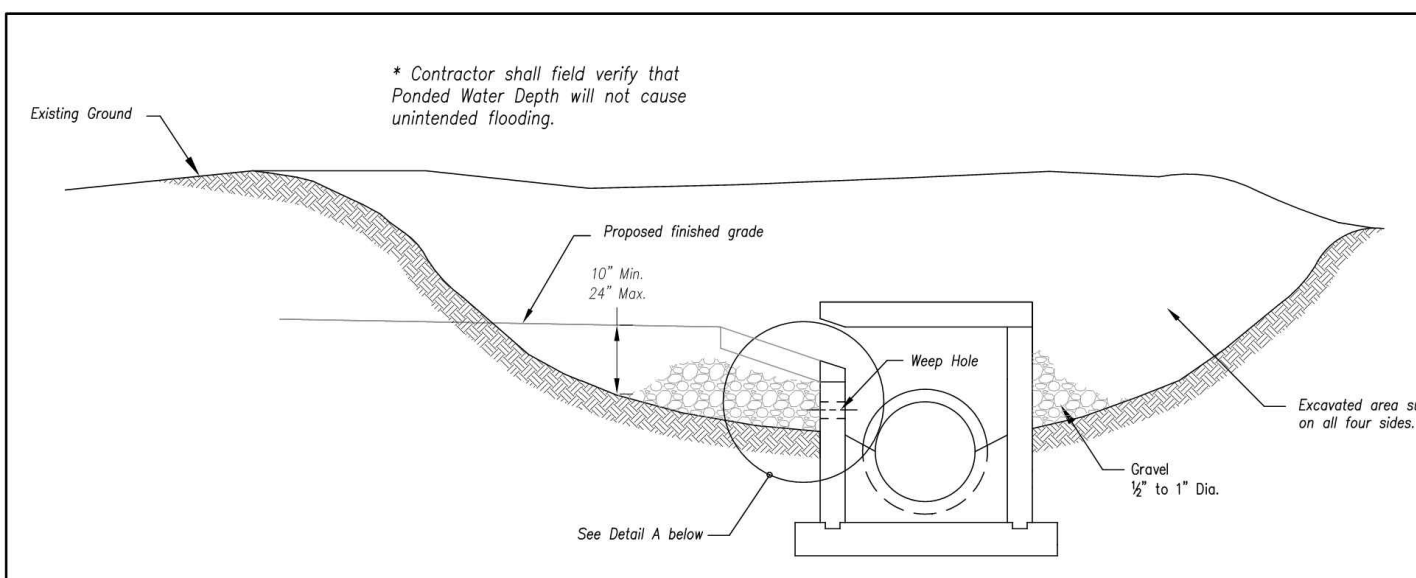
- Notes for Wattles and Biodegradable Log Ditch Check:**
- Use as many biodegradable log sections as necessary to ensure water does not flow around end of ditch check.
  - Overlap sections a minimum of 18"
  - Stakes shall be per manufacturer's instructions. Length of stakes shall be a minimum of 2 times the diameter of the log or 24" minimum.
  - Use Erosion Control (Class 1) (Type C) as the downstream slope when directed by the Engineer.
  - Use 2" diameter logs when used with Erosion Control (Class 2) (Any Type) channel lining. Smaller diameter logs may be used with Erosion Control (Class 2) (Any Type) channel lining as directed by the Engineer.

**WATTLES OR BIODEGRADABLE LOG DITCH CHECKS**

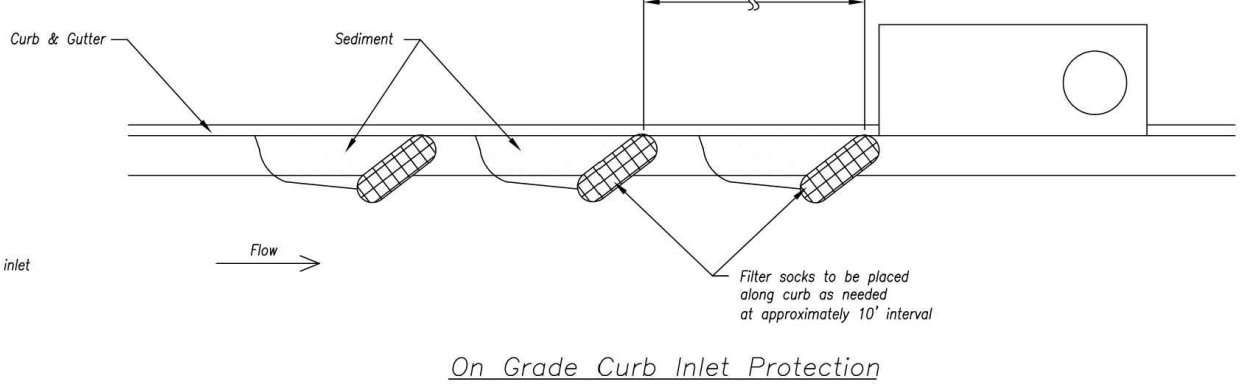
**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-09  
ADOPTED: 10/24/2016



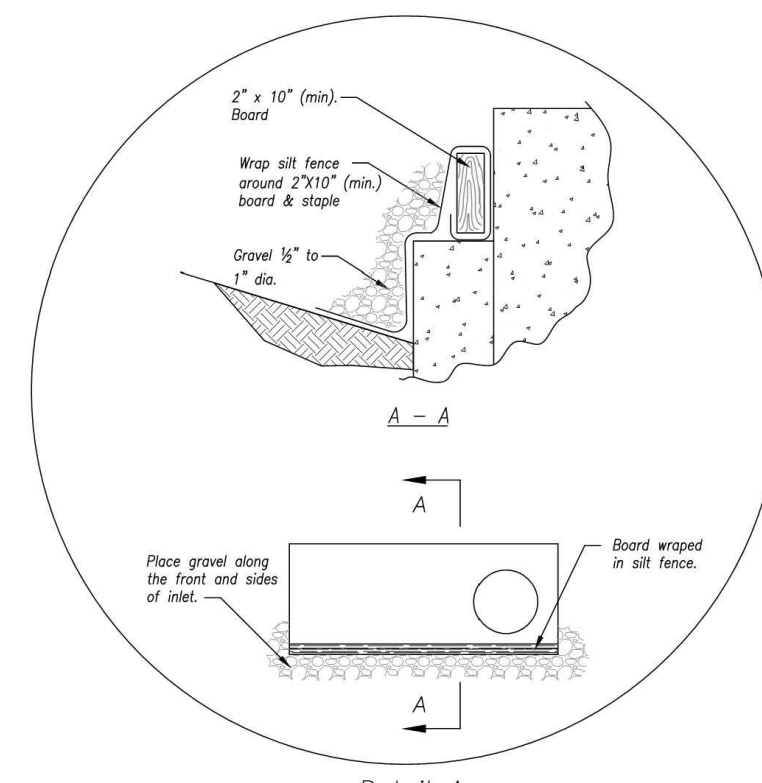
SECTION B-B



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



**ON GRADE CURB INLET PROTECTION**



Detail A

- Notes:**
- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 12" (min.) board wrapped in silt fence. Structure shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
  - When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
  - Contractor to field verify ponding water shall not create a traffic hazard.

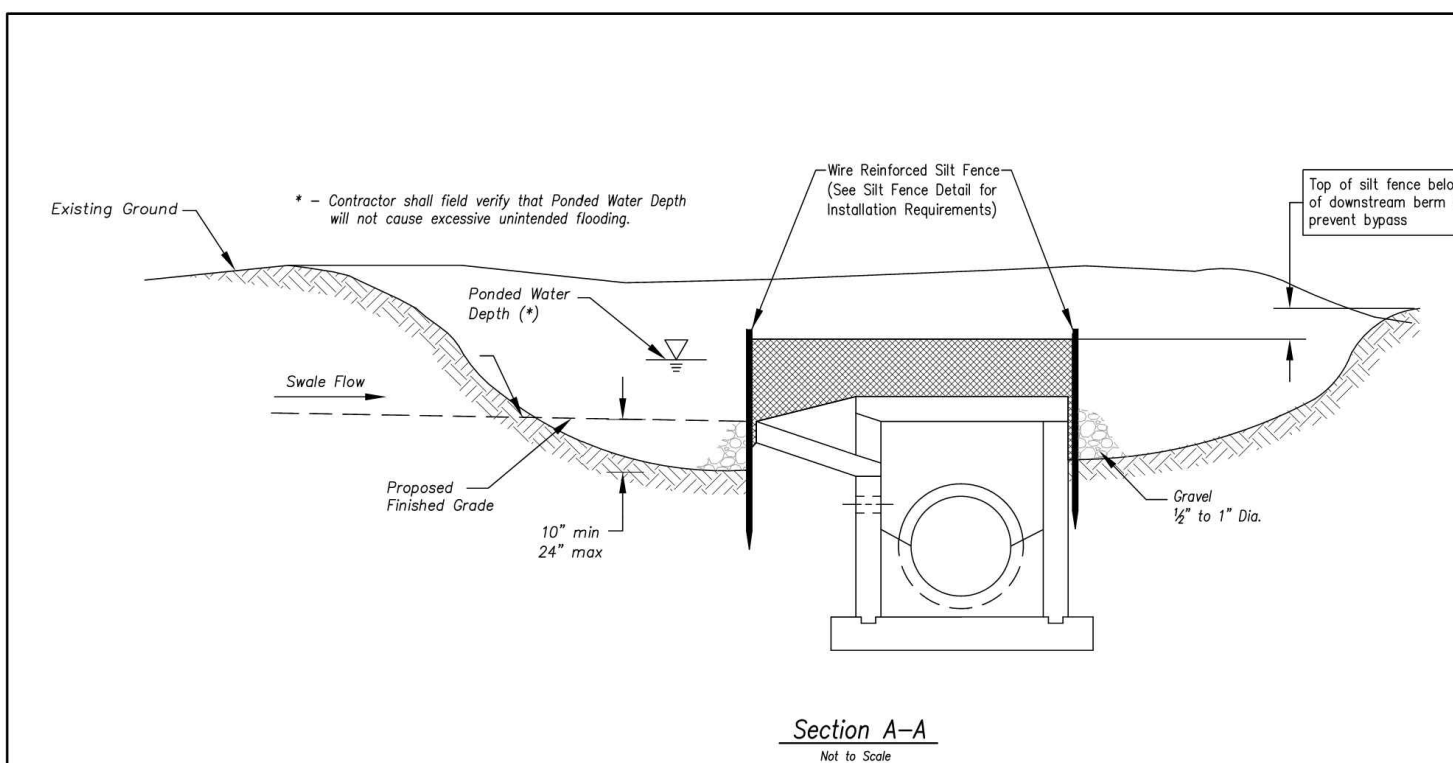
**Maintenance:**

- 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.

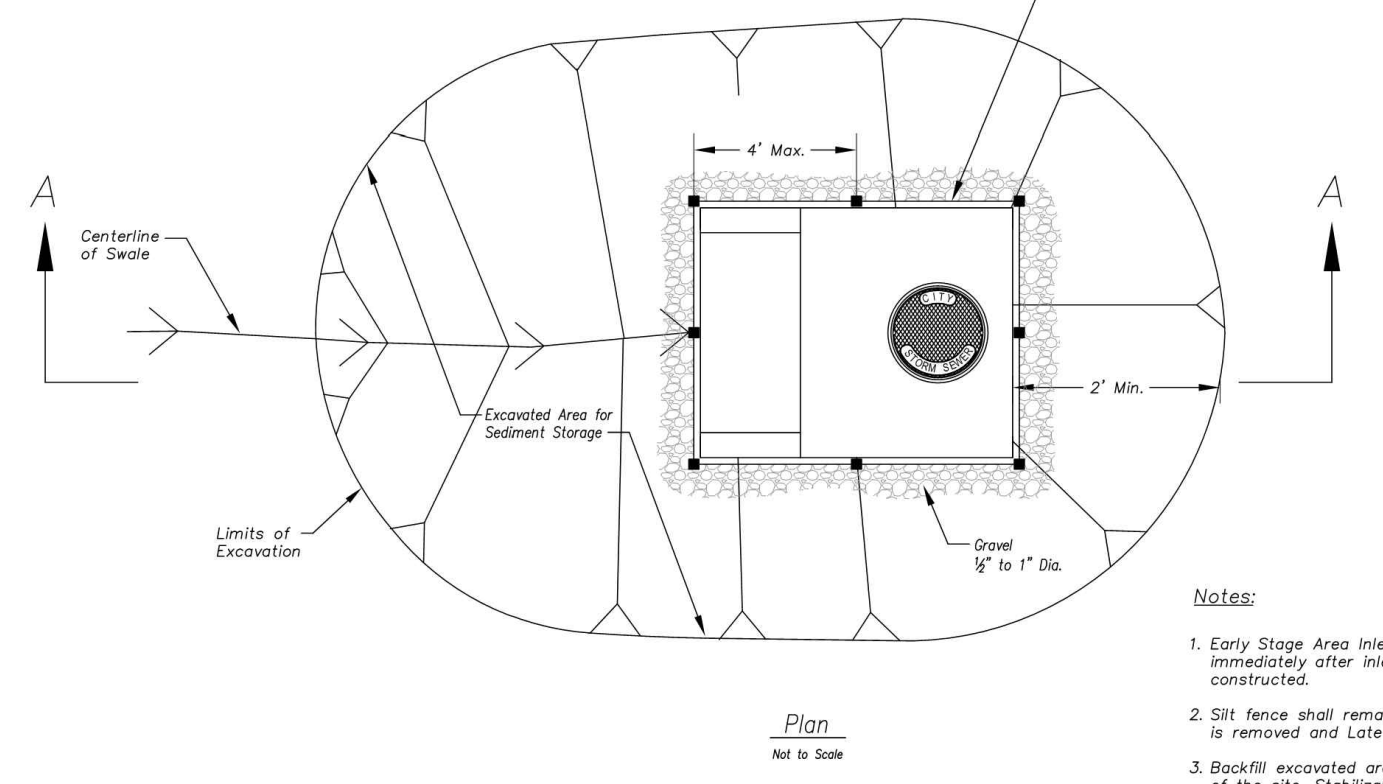
**SUMP INLET SEDIMENT FILTER**

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

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KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-06  
ADOPTED: 10/24/2016



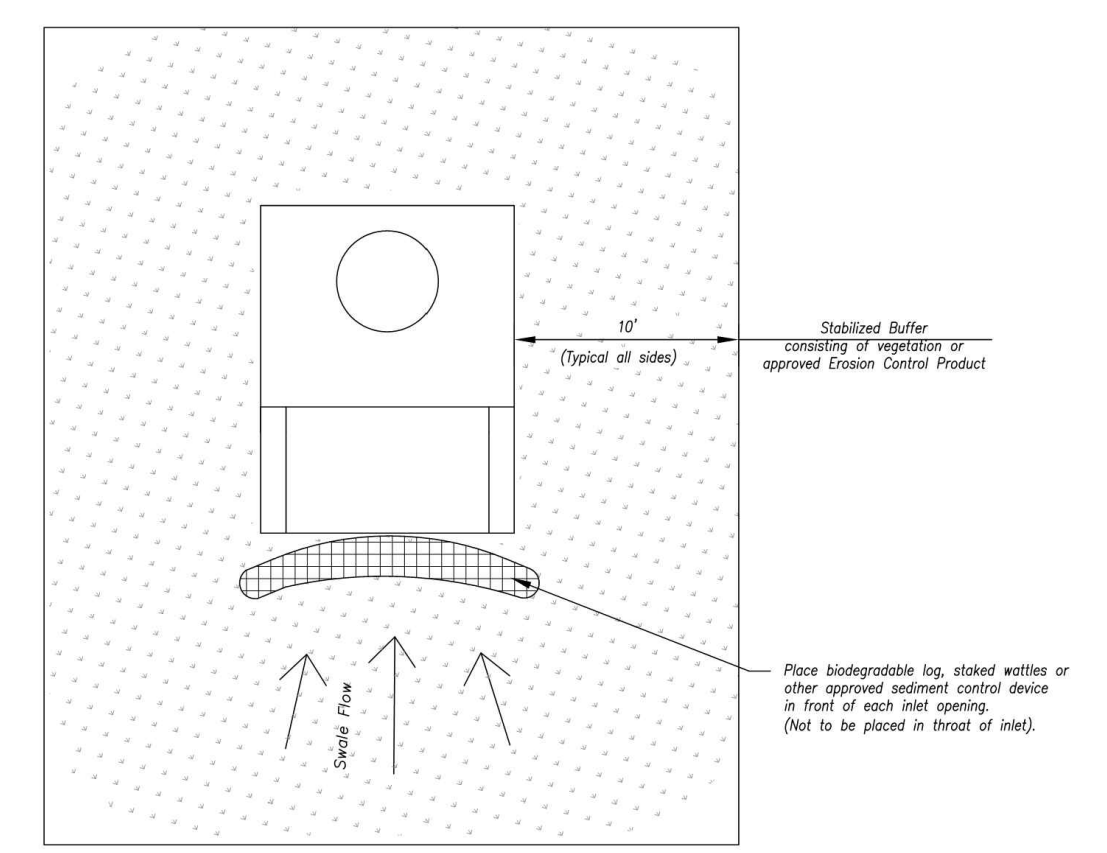
Section A-A  
Not to Scale



Plan  
Not to Scale

- 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.

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



Plan  
Not to Scale

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

**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.

**AMERICAN PUBLIC WORKS ASSOCIATION**  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-07  
ADOPTED: 10/24/2016

**AREA INLET AND JUNCTION BOX PROTECTION**

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

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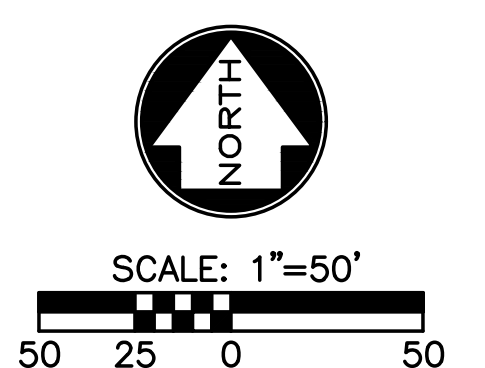
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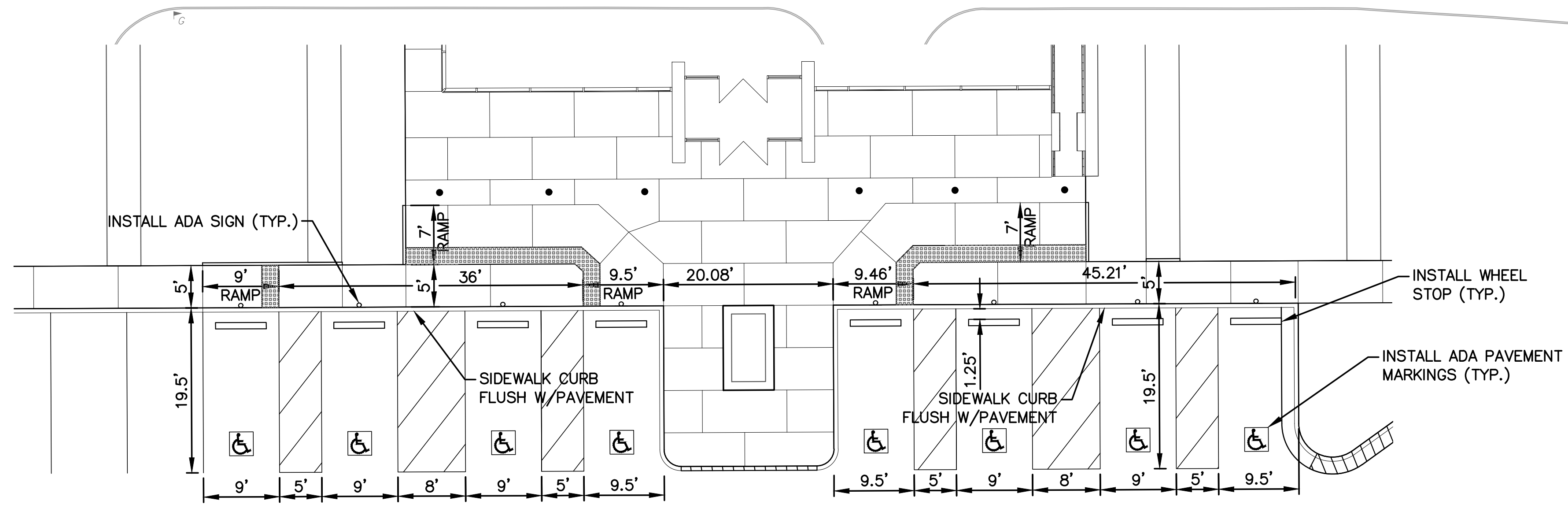
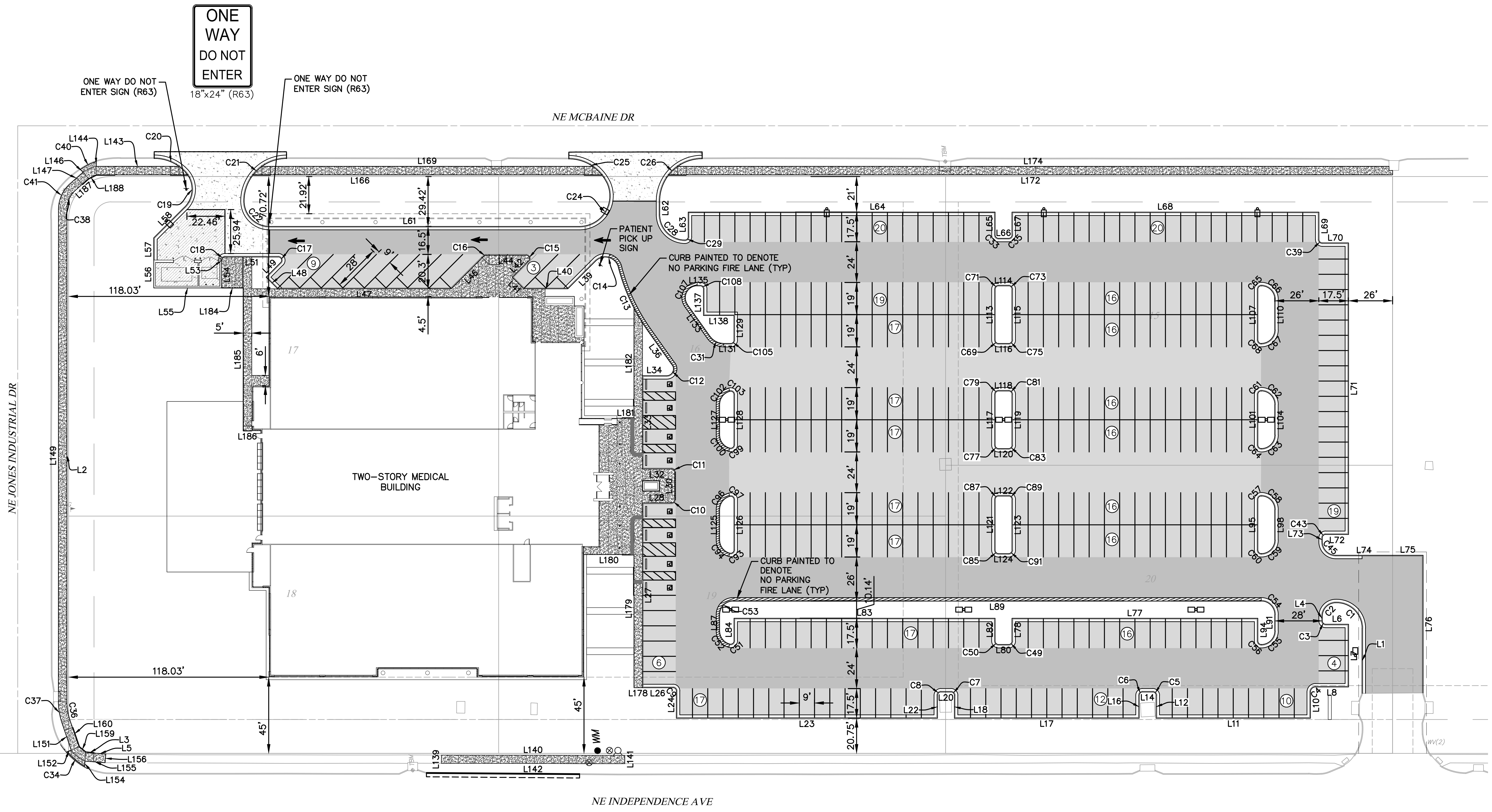
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**ADA/ENTRANCE LAYOUT DETAIL**  
SCALE: 1"=10'

NOTE: SEE SHEET C08 FOR LINE AND CURVE TABLES.

**PAVEMENT LEGEND**

- DENOTES HEAVY DUTY PAVEMENT
- DENOTES LIGHT DUTY PAVEMENT
- DENOTES 8" REINFORCED PORTLAND CONCRETE CEMENT PAVEMENT
- DENOTES 8" NON-REINFORCED PORTLAND CONCRETE CEMENT PAVEMENT
- DENOTES NON-REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK AND SIDEWALK RAMPS



SCALE: 1"=30'  
30 15 0 30

**C07**





Mark Daniel McGhee Jr.  
Civil Engineer  
MO# PE-2008019568



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Licensee's Certificate of Authority Number:  
Missouri No.: 000958 (Expires: 12.31.2017)

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**MEP/FP CONSULTANT**  
G&W Engineering Corporation  
138 Weldon Parkway  
Maryland Heights, Missouri 63043  
314.737.4200  
State Certificate of Authority #2002018767

Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

Line Table		
Line #	Length	Direction
L1	38.48	S83° 14' 44.00"E
L2	290.39	S83° 14' 29.96"E
L3	5.00	N11° 46' 41.45"E
L4	2.68	N83° 14' 56.00"W
L5	6.96	N11° 46' 41.45"E
L6	13.50	S06° 45' 04.00"W
L7	37.00	N83° 14' 56.00"W
L8	19.50	N06° 45' 04.00"E
L10	15.44	N83° 14' 56.00"W
L11	91.00	N06° 45' 04.00"E
L12	13.50	S83° 14' 56.00"E
L14	6.00	N06° 45' 04.00"E
L16	13.50	N83° 14' 56.00"W
L17	109.00	N06° 45' 04.00"E
L18	13.50	S83° 14' 56.00"E
L20	6.00	N06° 45' 04.00"E
L22	13.50	N83° 14' 56.00"W
L23	154.00	N06° 45' 04.00"E
L24	16.05	S83° 14' 56.00"E
L26	18.00	N06° 45' 04.00"E
L27	109.00	S83° 14' 56.00"E
L28	17.00	S06° 45' 04.00"W
L30	16.08	S83° 14' 56.00"E
L32	17.00	N06° 45' 04.00"E
L33	55.00	S83° 14' 56.00"E
L34	14.23	S06° 45' 04.00"W
L36	24.71	N61° 23' 03.58"E
L39	23.15	N38° 14' 56.00"W
L40	25.87	N06° 45' 04.00"E
L41	9.71	N51° 45' 04.00"E
L42	13.46	S38° 14' 56.00"E
L44	23.62	N06° 45' 04.00"E
L46	27.17	N38° 14' 56.00"W
L47	102.24	N06° 45' 04.00"E
L48	9.71	N51° 45' 04.00"E
L49	12.05	S38° 14' 56.00"E
L51	31.38	N06° 45' 04.00"E
L53	0.30	N83° 14' 56.00"W
L54	16.00	N83° 14' 56.00"W
L55	40.00	N06° 45' 04.00"E
L56	16.00	S83° 14' 56.00"E
L57	13.53	S83° 14' 56.00"E
L58	25.64	S38° 14' 56.00"E
L61	182.69	S06° 45' 04.00"W
L62	8.04	N83° 14' 56.00"W
L63	14.50	S83° 14' 56.00"E
L64	181.00	S06° 45' 04.00"W
L65	13.50	N83° 14' 56.00"W
L66	6.00	S06° 45' 04.00"W
L67	13.50	S83° 14' 56.00"E

Line Table		
Line #	Length	Direction
L68	181.00	S06° 45' 04.00"W
L69	16.20	N83° 14' 56.00"W
L70	15.50	S06° 45' 04.00"W
L71	172.00	N83° 14' 56.00"W
L72	13.50	N06° 45' 04.00"E
L73	2.31	N83° 14' 56.00"W
L74	33.49	S06° 45' 04.00"W
L75	18.00	S06° 45' 04.00"W
L76	81.22	N83° 14' 44.00"W
L77	145.00	N06° 45' 04.00"E
L78	13.50	N83° 14' 56.00"W
L80	6.00	N06° 45' 04.00"E
L82	13.50	S83° 14' 56.00"E
L83	154.00	N06° 45' 04.00"E
L84	13.31	N83° 14' 56.00"W
L87	9.64	S83° 14' 56.00"E
L89	311.50	S06° 45' 04.00"W
L91	9.64	N83° 14' 56.00"W
L94	13.50	S83° 14' 56.00"E
L95	30.00	S83° 14' 56.00"E
L98	18.00	N83° 14' 56.00"W
L101	30.00	S83° 14' 56.00"E
L104	18.00	N83° 14' 56.00"W
L107	30.00	S83° 14' 56.00"E
L110	18.00	N83° 14' 56.00"W
L113	30.00	S83° 14' 56.00"E
L114	6.00	S06° 45' 04.00"W
L115	30.00	N83° 14' 56.00"W
L116	6.00	N06° 45' 04.00"E
L117	30.00	S83° 14' 56.00"E
L118	6.00	S06° 45' 04.00"W
L119	30.00	N83° 14' 56.00"W
L120	6.00	N06° 45' 04.00"E
L121	30.00	S83° 14' 56.00"E
L122	6.00	S06° 45' 04.00"W
L123	30.00	N83° 14' 56.00"W
L124	6.00	N06° 45' 04.00"E
L125	18.00	S83° 14' 56.00"E
L126	29.62	N83° 14' 56.00"W
L127	18.00	S83° 14' 56.00"E
L128	29.62	N83° 14' 56.00"W
L129	14.50	N83° 14' 56.00"W
L131	4.02	N06° 45' 04.00"E
L133	22.98	N61° 23' 03.58"E
L135	1.77	S06° 45' 04.00"W
L137	15.50	N83° 14' 56.00"W
L138	18.00	S06° 45' 04.00"W
L139	4.85	S83° 01' 11.64"E
L140	108.17	S06° 49' 05.35"W
L141	4.92	N83° 14' 27.72"W

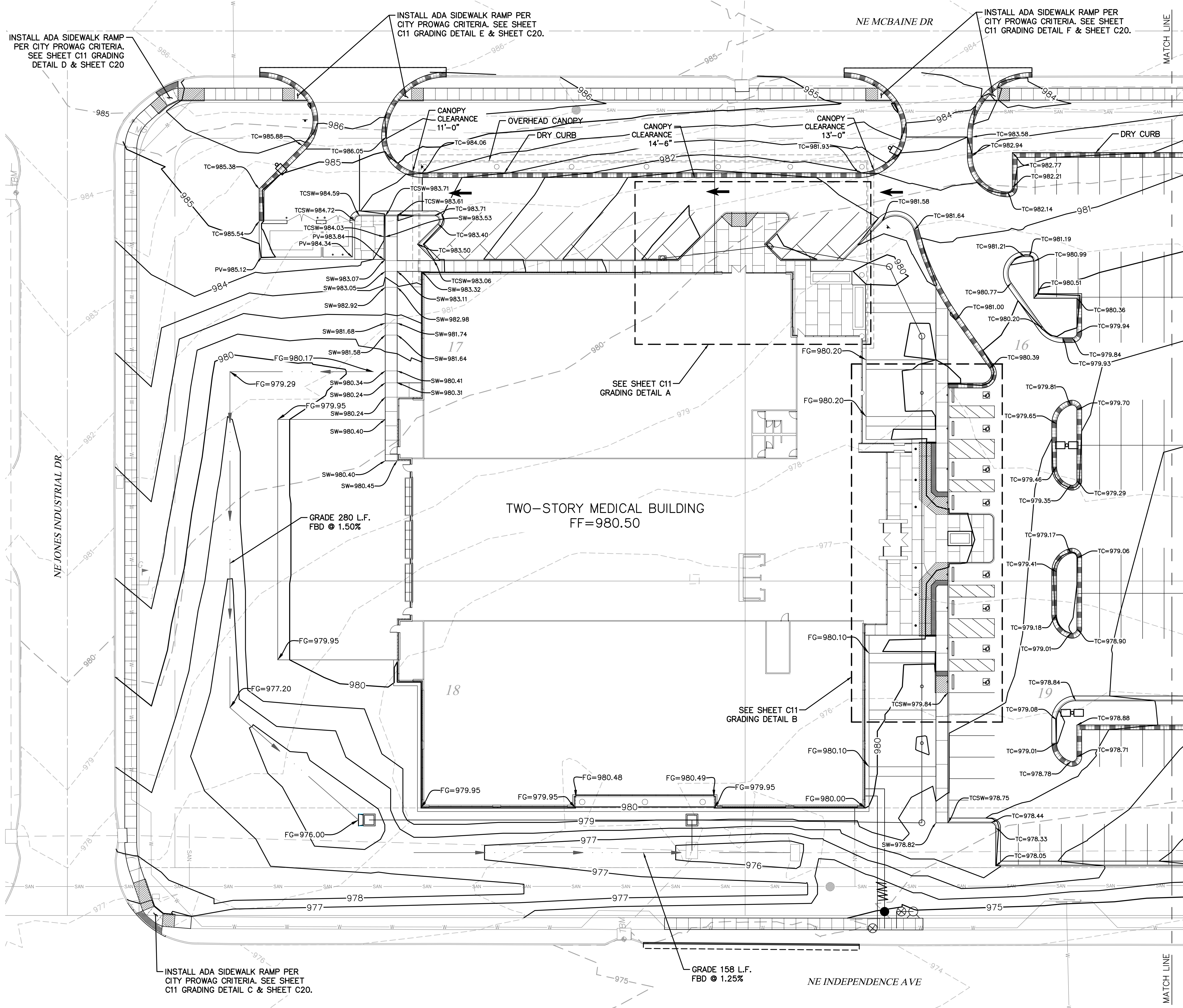
Line Table		
Line #	Length	Direction
L142	108.19	N06° 51' 03.36"E
L143	48.75	N06° 45' 04.00"E
L144	2.87	S83° 14' 56.00"E
L146	2.25	S55° 11' 03.05"W
L147	10.33	N34° 48' 56.95"W
L149	290.59	N83° 14' 30.32"W
L151	16.77	S77° 53' 50.22"W
L152	2.67	N15° 27' 38.73"W
L154	3.01	S78° 36' 38.14"E
L155	11.96	S11° 23' 21.86"W
L156	5.12	S78° 36' 38.14"E
L159	5.00	N46° 20' 21.51"E
L160	16.48	N77° 53' 50.22"E
L166	205.71	S06° 45' 04.00"W
L169	195.10	N06° 45' 04.00"E
L172	427.00	S06° 45' 04.00"W
L174	419.60	N06° 45' 04.00"E
L178	5.00	N06° 45' 04.00"E
L179	78.54	S83° 14' 56.00"E
L180	29.50	N06° 45' 04.00"E
L181	10.11	S06° 45' 04.00"W
L182	64.96	S83° 14' 56.00"E
L184	12.77	S06° 45' 04.00"W
L185	84.33	N83° 14' 56.00"W
L186	5.00	S06° 45' 04.00"W
L187	10.33	S34° 48' 56.95"E
L188	5.00	S19° 17' 07.59"E

Curve Table			
Curve #	Length	Radius	Delta
C1	24.60	15.00	093.97
C2	12.01	8.00	086.03
C3	3.14	2.00	090.00
C4	4.71	3.00	090.00
C5	3.14	2.00	090.00
C6	3.14	2.00	090.00
C7	3.14	2.00	090.00
C8	3.14	2.00	090.00
C9	3.14	2.00	090.00
C10	3.14	2.00	090.00
C11	3.14	2.00	090.00
C12	8.75	4.00	125.37
C13	41.62	114.00	020.92
C14	16.83	8.00	120.55
C15	4.71	2.00	135.00
C16	1.57	2.00	045.00
C17	4.71	2.00	135.00
C18	3.14	2.00	090.00
C19	23.16	15.00	088.48
C20	20.34	25.00	046.62
C21	39.41	25.06	090.09
C22	23.49	14.96	089.97
C24	36.64	18.00	116.61
C25	27.53	25.00	063.09
C26	39.31	25.00	090.10
C28	23.39	15.00	089.33
C29	3.16	2.00	090.67
C31	9.54	10.00	054.63
C33	3.14	2.00	090.00
C34	13.40	40.43	018.99
C35	3.14	2.00	090.00
C36	11.52	35.00	018.86
C37	12.97	40.00	018.57
C38	12.68	15.00	048.43
C39	3.14	2.00	090.00
C40	10.43	37.20	016.07
C41	16.90	20.00	048.43
C43	3.14	2.00	090.00
C45	12.57	8.00	090.00
C49	3.14	2.00	090.00
C50	3.14	2.00	090.00
C51	3.65	2.00	104.48
C52	10.54	8.00	075.52
C53	12.57	8.00	090.00
C54	12.57	8.00	090.00
C55	12.57	8.00	090.00
C56	3.14	2.00	090.00
C57	3.14	2.00	090.00
C58	12.57	8.00	090.00
C59	12.57	8.00	090.00

Curve Table			
Curve #	Length	Radius	Delta
C60	3.14	2.00	090.00
C61	3.14	2.00	090.00
C62	12.57	8.00	090.00
C63	12.57	8.00	090.00
C64	3.14	2.00	090.00
C65	3.14	2.00	090.00
C66	12.57	8.00	090.00
C67	12.57	8.00	090.00
C68	3.14	2.00	090.00
C69	3.14	2.00	090.00
C71	3.14	2.00	090.00
C73	3.14	2.00	090.00
C75	3.14	2.00	090.00
C77	3.14	2.00	090.00
C79	3.14	2.00	090.00
C81	3.14	2.00	090.00
C83	3.14	2.00	090.00
C85	3.14	2.00	090.00
C87	3.14	2.00	090.00
C89	3.14	2.00	090.00
C91	3.14	2.00	090.00
C93	3.65	2.00	104.48
C94	10.54	8.00	075.52
C96	10.54	8.00	075.52
C97	3.65	2.00	104.48
C99	3.65	2.00	104.48
C100	10.54	8.00	075.52
C102	10.54	8.00	075.52
C103	3.65	2.00	104.48
C105	3.14	2.00	090.00
C107	15.32	7.00	125.37
C108	3.14	2.00	090.00

Date 9/22/17  
Job Number 170534-010  
Drawn By ELM  
Checked By MDM

Revisions		
Number	Date	Description
1	10/30/17	CITY COMMENTS
2	11/28/17	CITY COMMENTS



**GRADING PLAN NOTES:**

1. ALL CURB SHALL BE CG-1 UNLESS NOTED OTHERWISE.
2. ALL ELEVATIONS SHOWN ARE TO FINISHED GRADE.
3. ALL GRADING OPERATIONS, EXCAVATION, FILL, COMPACTION TESTING, AND BACKFILL SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER. NO PAVEMENTS SHALL BE PLACED PRIOR TO APPROVAL OF THE SUBGRADE BY THE GEOTECHNICAL ENGINEER.
4. SIDEWALK AND STOOP ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIDEWALK ELEVATIONS AND FINISHED FLOOR ELEVATIONS ARE COORDINATED FOR PROPER INGRESS/EGRESS. ALL DOORS SHALL HAVE A 5-FT OUTSIDE LANDING WITH 1.5% SLOPE AWAY FROM THE BUILDING.
5. THE FINISH GRADING AROUND THE BUILDING SHALL BE SUCH THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM THE BUILDING AND THAT NO PONDING OF WATER WILL EXIST. SUBGRADE OF GRASS AND LANDSCAPE AREAS SHALL BE SET AT THE SIDEWALK, PAVEMENT, AND OR TOP OF CURB ELEVATION SO THAT STORMWATER CAN FLOW WITHOUT PONDING.
6. PARKING GRADES SHALL BE VERIFIED TO CONFIRM POSITIVE DRAINAGE IS MAINTAINED WITHOUT THE PRESENCE OF PONDING WATER.
7. ALL ADA PARKING STALLS AND ADA ACCESS ACROSS PARKING AISLES SHALL HAVE LESS THAN 2% SLOPE IN ANY DIRECTION.
8. ALL SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% (2.0% MAX) AND LESS THAN 5% RUN SLOPE.
9. ANY PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.

**LEGEND**

- DENOTES NEW CURB RAMP
- DENOTES NEW CURB & GUTTER (WET)
- DENOTES NEW CURB & GUTTER (DRY)

**LEGEND**

- 924- EXISTING 1' CONTOUR
- 925- EXISTING 5' CONTOUR
- 929- PROPOSED 1' CONTOUR
- 930- PROPOSED 5' CONTOUR
- TC TOP OF CURB ELEVATION
- SW SIDEWALK ELEVATION
- PV PAVEMENT ELEVATION
- ME MATCH EXISTING ELEVATION
- FG FINISHED GRADE ELEVATION
- FBD FLAT BOTTOM DITCH



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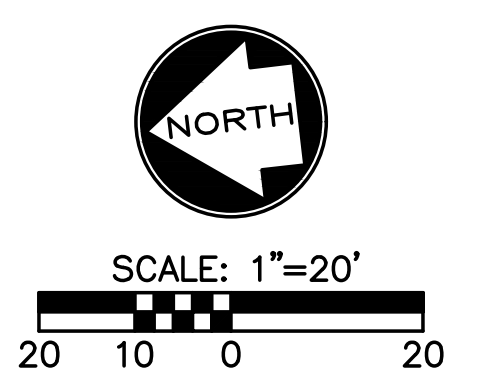
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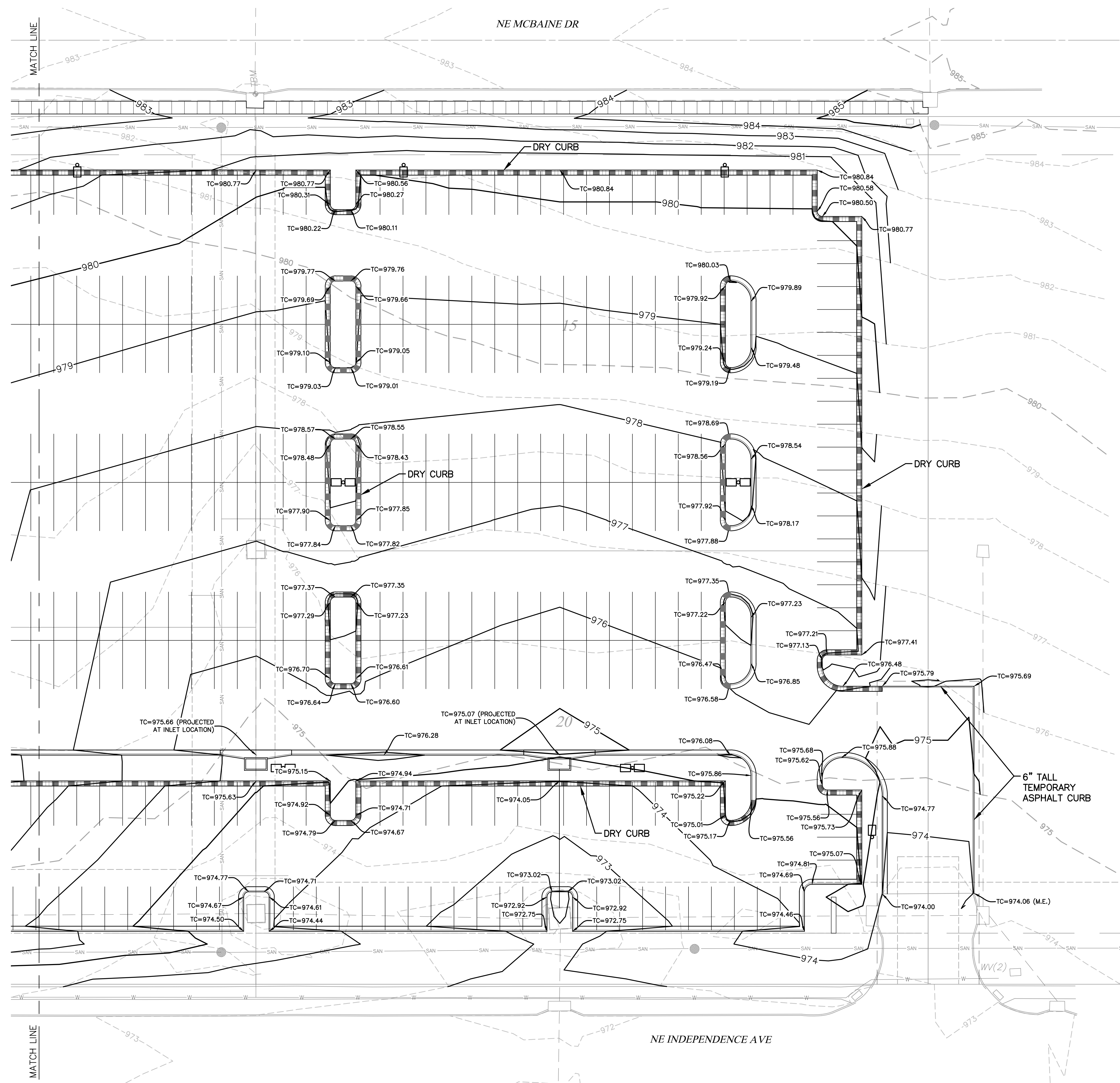
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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
 Lee's Summit, Missouri

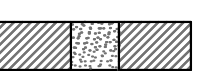
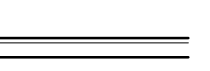

Date	9/22/17
Job Number	170534-010
Drawn By	ELM
Checked By	MDM

Revisions	Number	Date	Description
	1	10/30/17	CITY COMMENTS
	2	11/28/17	CITY COMMENTS





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1. ALL CURB SHALL BE CG-1 UNLESS NOTED OTHERWISE.
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  3. ALL GRADING OPERATIONS, EXCAVATION, FILL, COMPACTION TESTING, AND BACKFILL SHALL BE OBSERVED AND TESTED BY A QUALIFIED GEOTECHNICAL ENGINEER. NO PAVEMENTS SHALL BE PLACED PRIOR TO APPROVAL OF THE SUBGRADE BY THE GEOTECHNICAL ENGINEER.
  4. SIDEWALK AND STOOP ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIDEWALK ELEVATIONS AND FINISHED FLOOR ELEVATIONS ARE COORDINATED FOR PROPER INGRESS/EGRESS. ALL DOORS SHALL HAVE A 5-FT OUTSIDE LANDING WITH 1.5% SLOPE AWAY FROM THE BUILDING.
  5. THE FINISH GRADING AROUND THE BUILDING SHALL BE SUCH THAT POSITIVE DRAINAGE IS PROVIDED AWAY FROM THE BUILDING AND THAT NO PONDING OF WATER WILL EXIST. SUBGRADE OF GRASS AND LANDSCAPE AREAS SHALL BE SET AT THE SIDEWALK, PAVEMENT, AND OR TOP OF CURB ELEVATION SO THAT STORMWATER CAN FLOW WITHOUT PONDING.
  6. PARKING GRADES SHALL BE VERIFIED TO CONFIRM POSITIVE DRAINAGE IS MAINTAINED WITHOUT THE PRESENCE OF PONDING WATER.
  7. ALL ADA PARKING STALLS AND ADA ACCESS ACROSS PARKING AISLES SHALL HAVE LESS THAN 2% SLOPE IN ANY DIRECTION.
  8. ALL SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% (2.0% MAX) AND LESS THAN 5% RUN SLOPE.
  9. ANY PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS DISTURBED BY CONSTRUCTION SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.

- LEGEND**
-  DENOTES NEW CURB RAMP
  -  DENOTES NEW CURB & GUTTER (WET)
  -  DENOTES NEW CURB & GUTTER (DRY)

- LEGEND**
- 924- EXISTING 1' CONTOUR
  - 925- EXISTING 5' CONTOUR
  - 929- PROPOSED 1' CONTOUR
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  - TC TOP OF CURB ELEVATION
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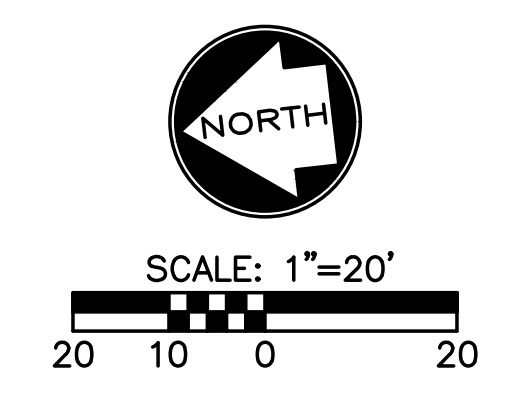
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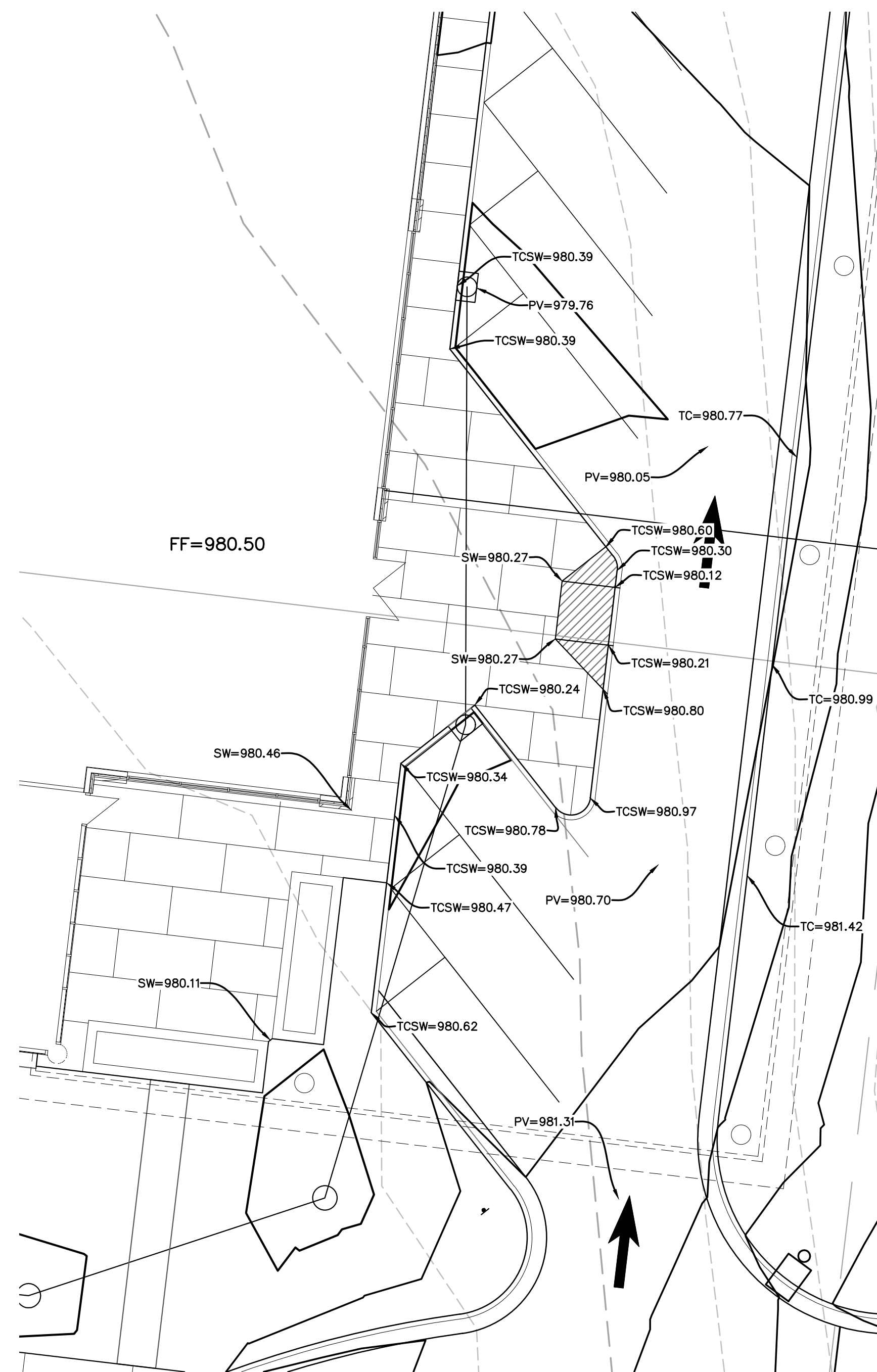
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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
 Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
Drawn By	ELM
Checked By	MDM

Revisions	Number	Date	Description
	1	10/30/17	CITY COMMENTS
	2	11/28/17	CITY COMMENTS





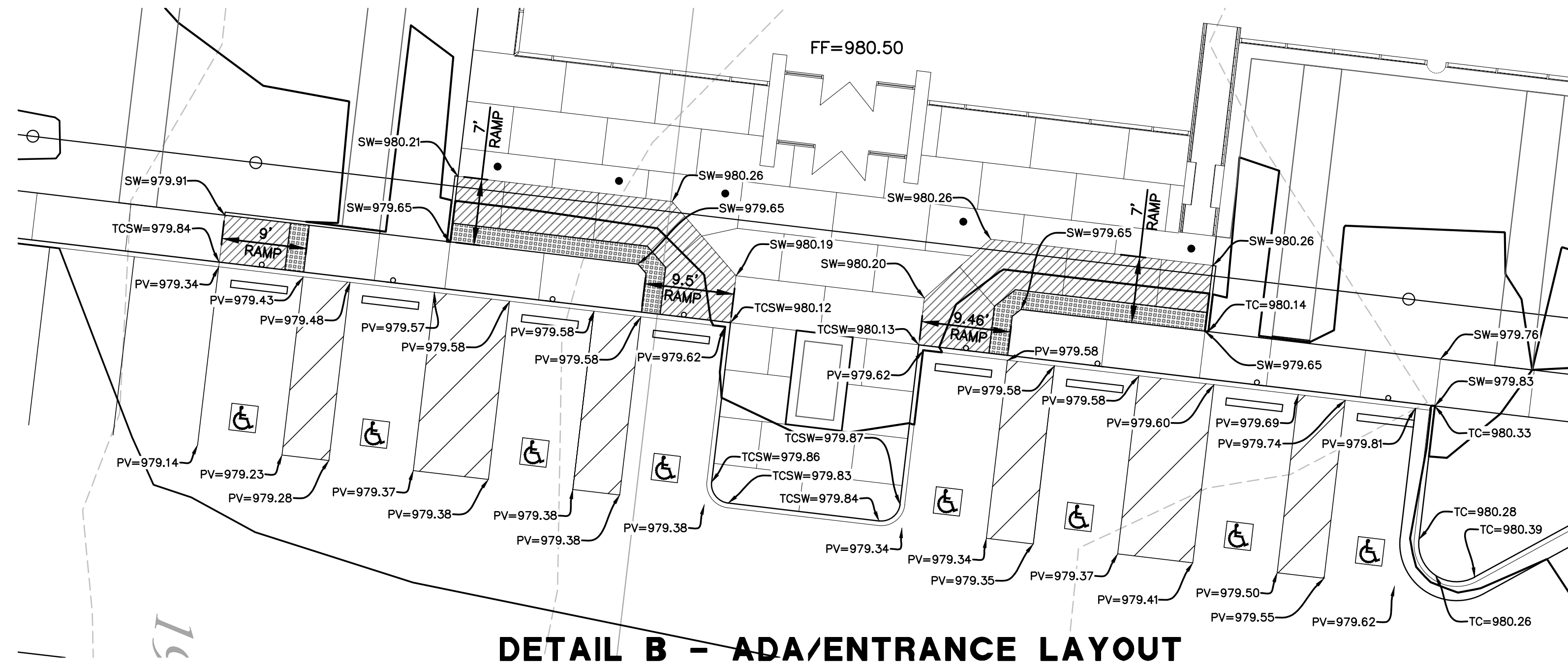
**DETAIL A - EAST ENTRANCE LAYOUT**

**LEGEND**

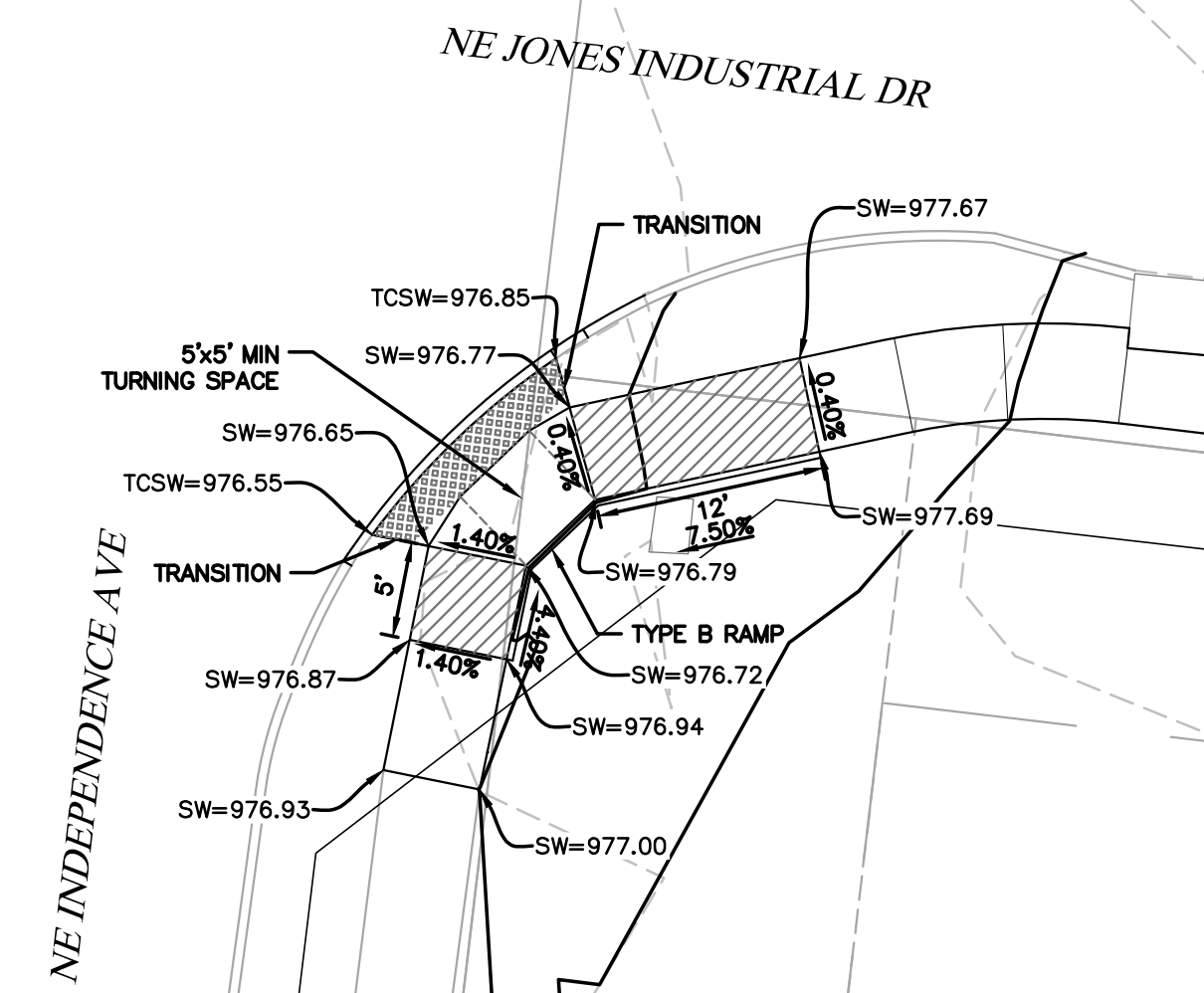
- DENOTES NEW CURB RAMP
- DENOTES NEW CURB & GUTTER (WET)
- DENOTES NEW CURB & GUTTER (DRY)

**LEGEND**

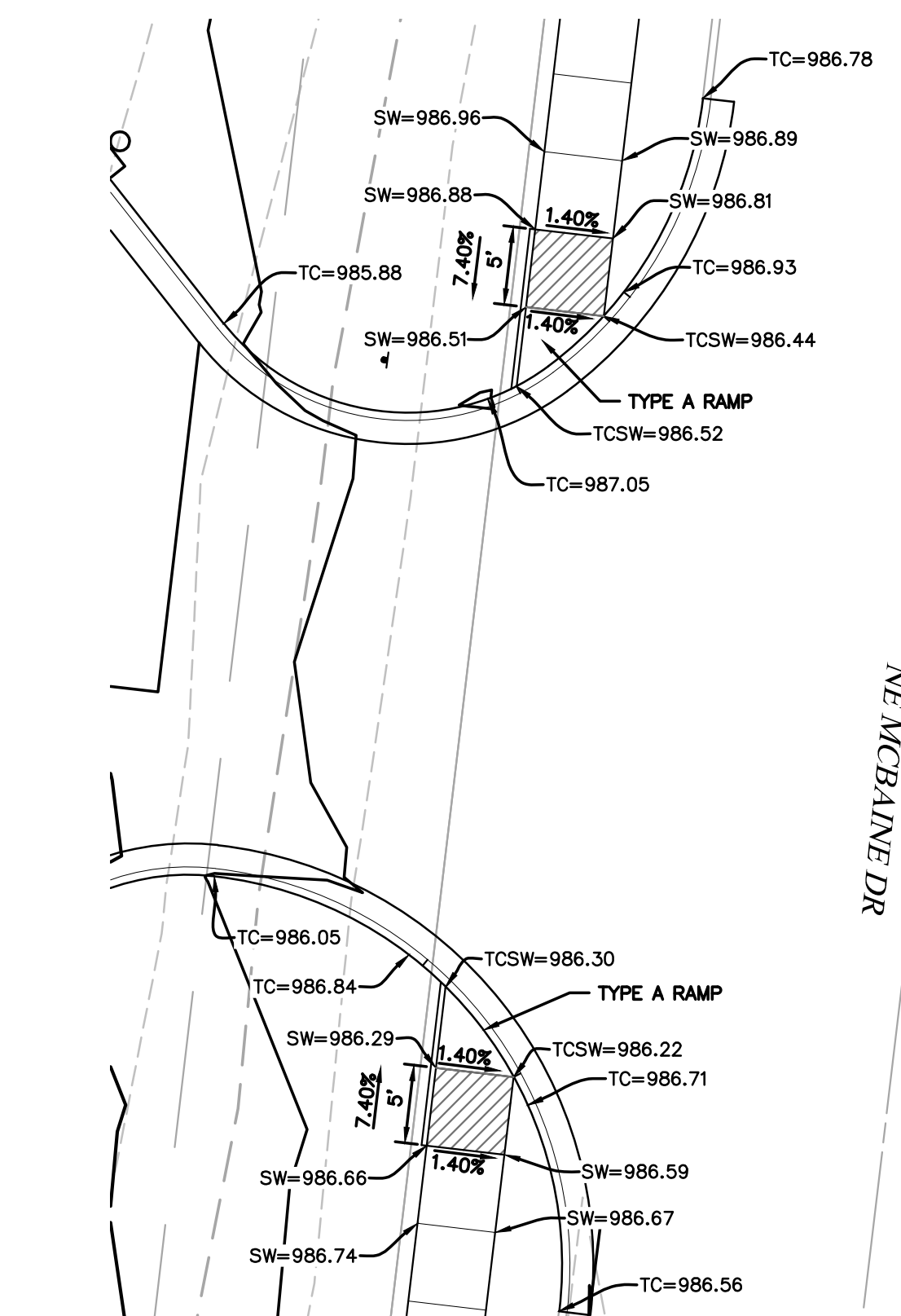
- - - 924 - - - EXISTING 1' CONTOUR
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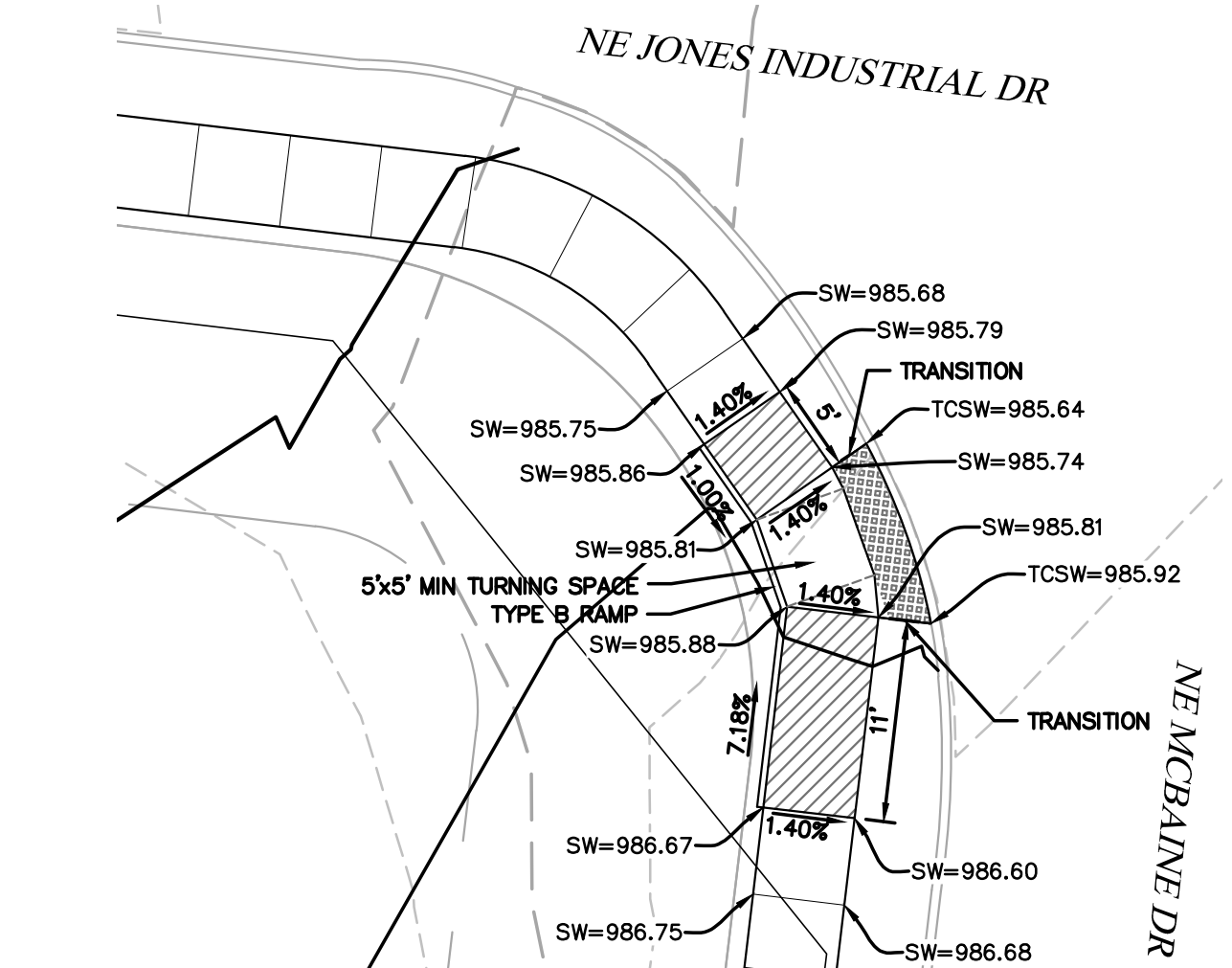
**DETAIL B - ADA/ENTRANCE LAYOUT**



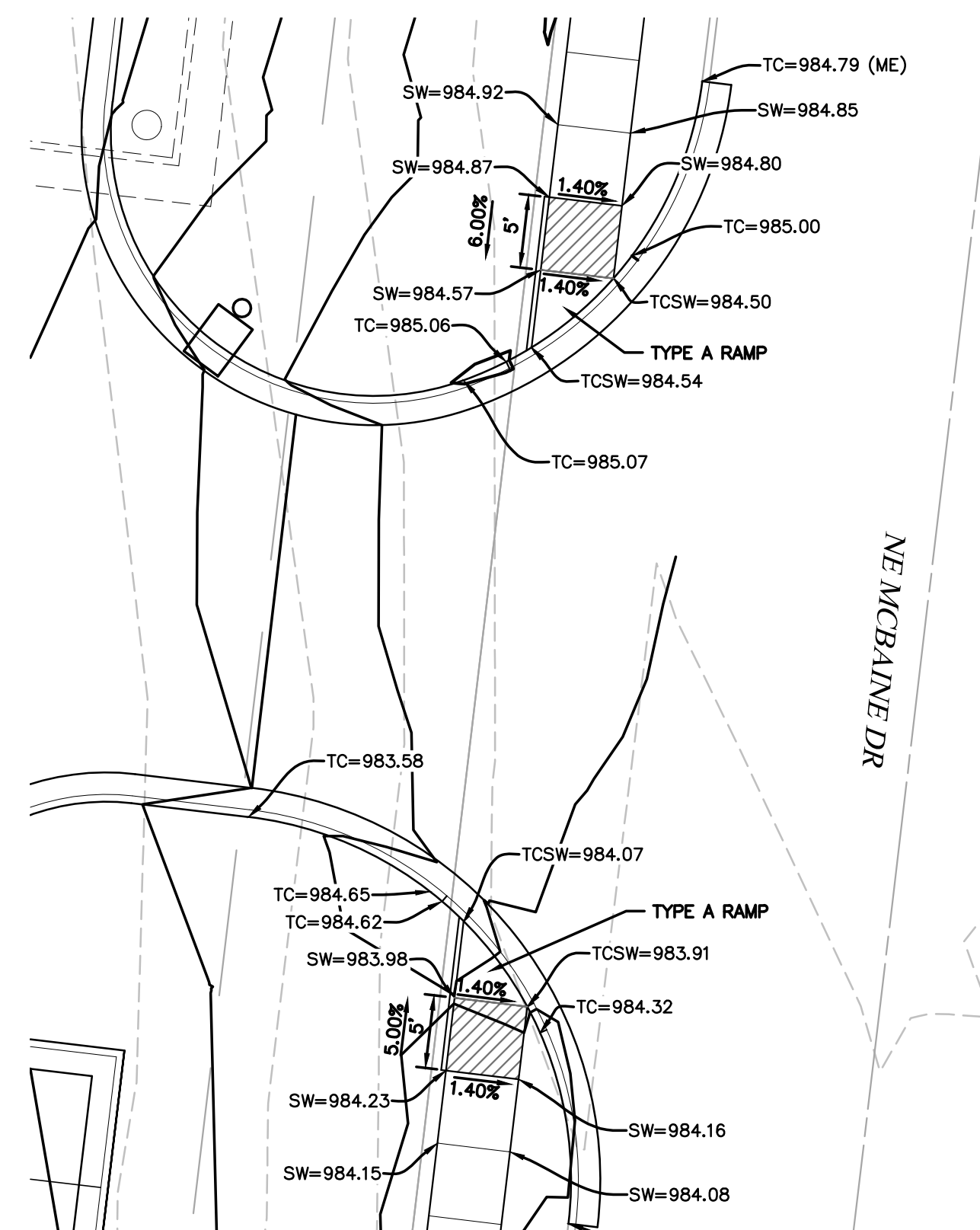
**DETAIL C - NORTHWEST RAMP DETAIL**



**DETAIL E - NORTHEAST ENTRANCE DETAIL**

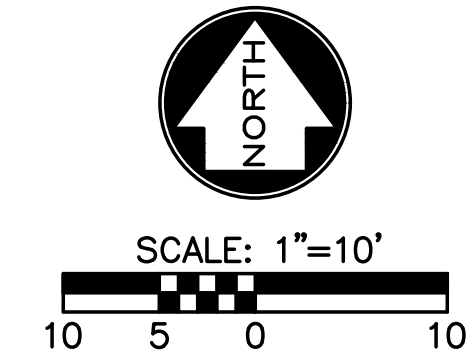


**DETAIL D - NORTHEAST RAMP DETAIL**



**DETAIL F - SOUTHEAST ENTRANCE DETAIL**

SEE SHEET C20 FOR CITY STANDARD RAMP DETAILS.



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Civil Engineer  
MO# PE-2008019568



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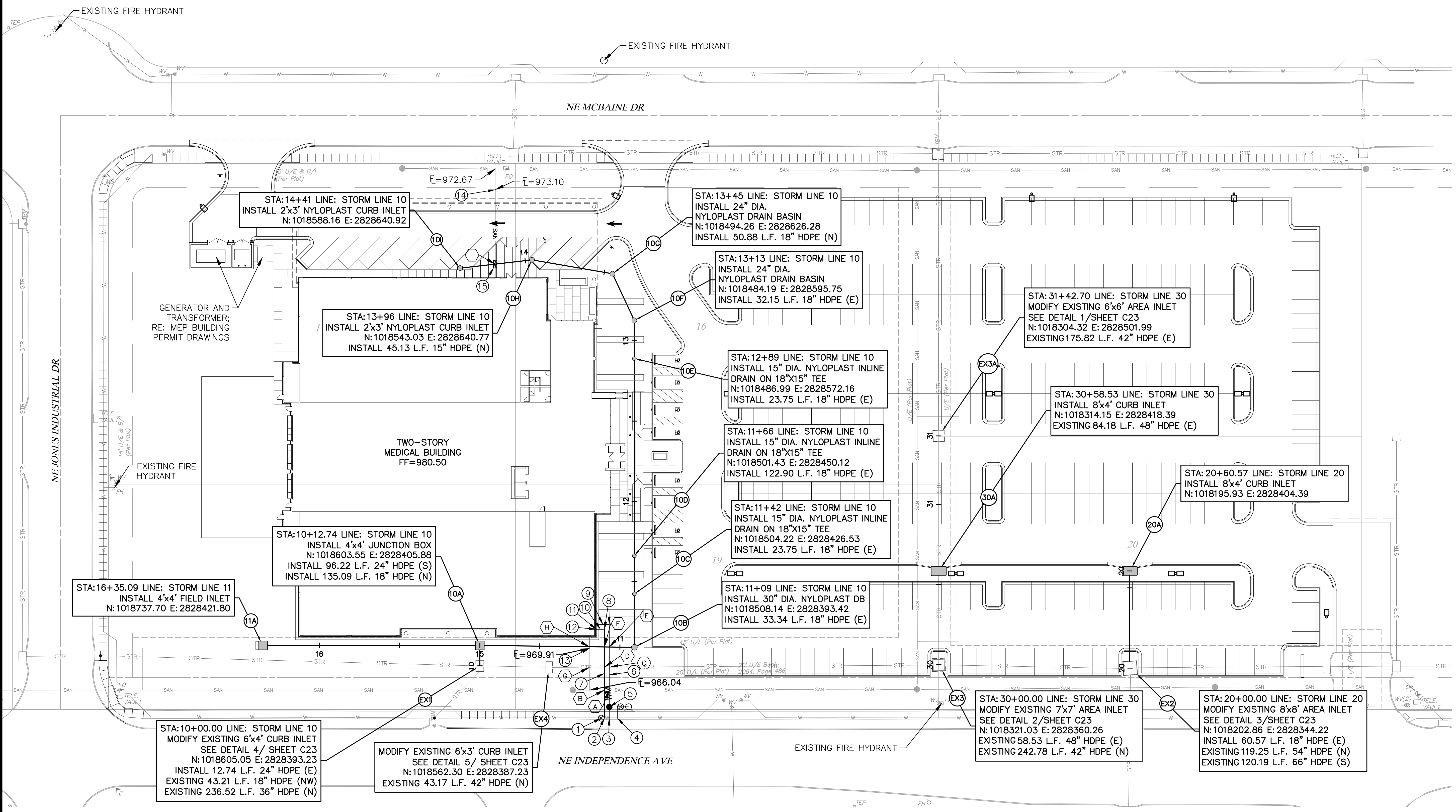
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Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
Drawn By	ELM
Checked By	MDM

Revisions	Number	Date	Description
	1	10/30/17	CITY COMMENTS
	2	11/28/17	CITY COMMENTS



**KEYNOTES:**

- INSTALL 8" GATE VALVE ON WATER MAIN.
- INSTALL 8"x6" TEE WITH 6" GATE VALVE TO EAST.
- INSTALL 8"x6" TEE WITH A 6" TO 3" REDUCER TO EAST AND 7 L.F. 3" DOMESTIC SERVICE LINE.
- INSTALL STANDARD HYDRANT ASSEMBLY.
- INSTALL A 2" WATER METER.
- INSTALL 51.4 L.F. 3" DOMESTIC SERVICE LINE.
- INSTALL 55.4 L.F. 6" FIRE LINE.
- INSTALL 90' BEND.
- INSTALL 8.0 L.F. 3" DOMESTIC SERVICE LINE.
- INSTALL 5 L.F. OF 6" FIRE LINE.
- DOUBLE CHECK DETECTOR/FIRE RISER IN BUILDING; RE:MEP BUILDING PERMIT DRAWINGS.
- INSTALL FIRE DEPARTMENT CONNECTION ON OUTSIDE FACE OF BUILDING.
- CONNECT TO EXISTING SANITARY STUB @ 969.91 (FIELD VERIFY ELEVATION) AND INSTALL 6.91 L.F. OF 4" PVC SDR-26 AND CONNECT TO THE BUILDING SANITARY SEWER.
- CONNECT TO EXISTING SANITARY SEWER STUB @ 973.10 (FIELD VERIFY ELEVATION) AND INSTALL 54.81 L.F. OF 4" PVC SDR-26 AND CONNECT TO THE BUILDING SANITARY SEWER.
- INSTALL 5 L.F. OF CONCRETE ENCASUREMENT AROUND SANITARY SEWER LINE.

**UTILITY PLAN NOTES:**

- ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS ONLY AND HAVE BEEN COMPILED FROM THE LATEST AVAILABLE MAPPING, FIELD LOCATES, AND AS-BUILTS. THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- GENERAL CONTRACTOR TO COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR ALL LOCATIONS AND SERVICE CONNECTIONS.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT ENGINEER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY COMPANIES AND CITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY COMPANIES AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTION, RELOCATIONS, INSPECTIONS, AND DEMOLITION.
- ALL VALVE PITS SHALL BE ADJUSTED TO FINAL GRADE.
- SANITARY SERVICE LATERAL SHALL MAINTAIN MINIMUM OF 10'-FT HORIZONTAL AND 1.5'-FT VERTICAL SEPARATION DISTANCE FROM WATER LINES. WATER LINES SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 42-INCHES OF COVER OVER THE PIPE. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE ELEVATION OF THE WATER LINE TO AVOID OTHER UTILITIES AND UNDERGROUND OBSTRUCTIONS.

- THIS PLAN DETAILS PIPES UP TO 5'-FT FROM THE BUILDING FACE. REFER TO THE BUILDING DRAWINGS FOR BUILDING CONNECTIONS.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT AND REPLACED IN ACCORDANCE WITH THE PAVEMENT REPAIR REQUIREMENTS OF THE GOVERNING AUTHORITY.
- COPPER PIPE SHALL BE TYPE K TUBING WITH COMPRESSION FITTINGS.
- ALL SANITARY SEWER SERVICE LINES SHALL BE SDR-26 PVC PIPE. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH CITY REQUIREMENTS.
- ELECTRICAL SERVICE LINES SHOWN ON THE PLAN SHALL BE INSTALLED IN CONDUITS IN ACCORDANCE WITH KCPL&L'S STANDARD REQUIREMENTS.
- SANITARY SEWER AND STORM SEWER LINES SHALL BE INSTALLED TO MAINTAIN POSITIVE SLOPE. THE CONTRACTOR SHALL VERIFY THAT EACH RUN OF PIPE CAN BE INSTALLED WITH A POSITIVE SLOPE WITHOUT INTERFERENCE WITH OTHER UNDERGROUND UTILITIES OR OBSTRUCTIONS PRIOR TO INSTALLING THE LINE.
- PROVIDE CONCRETE THRUST BLOCKS AT ALL FIRE LINE TEES AND HORIZONTAL OR VERTICAL BEND FITTINGS.
- COORDINATE SIZING OF FIRE LINE, DOUBLE CHECK DETECTOR ASSEMBLY, AND ASSOCIATED VAULT WITH BUILDING FIRE SUPPRESSION SYSTEM DESIGN, BY OTHERS.

PIPE SEPARATION				
CROSSING	PIPE 1	PIPE 2	SEPARATION	NOTES
A	PROPOSED WATER	EXISTING SANITARY	±4.45'	FIELD VERIFY
B	PROPOSED WATER	EXISTING SANITARY	±4.44'	FIELD VERIFY
C	PROPOSED WATER	EXISTING STORM	±3.64'	FIELD VERIFY
D	PROPOSED WATER	EXISTING STORM	±3.66'	FIELD VERIFY
E	PROPOSED WATER	PROPOSED STORM	±3.22'	
F	PROPOSED WATER	PROPOSED STORM	±3.22'	
G	EXISTING SANITARY	EXISTING STORM	±0.45'	FIELD VERIFY
H	PROPOSED SANITARY	PROPOSED STORM	±2.00'	
I	PROPOSED SANITARY	PROPOSED STORM	±0.73'	CONCRETE ENCASE SANITARY



SCALE: 1"=30'



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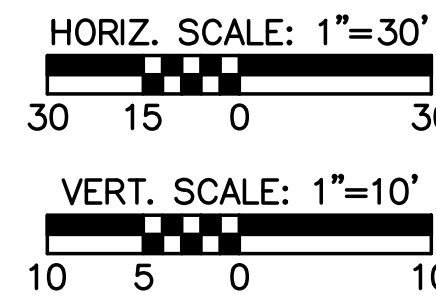
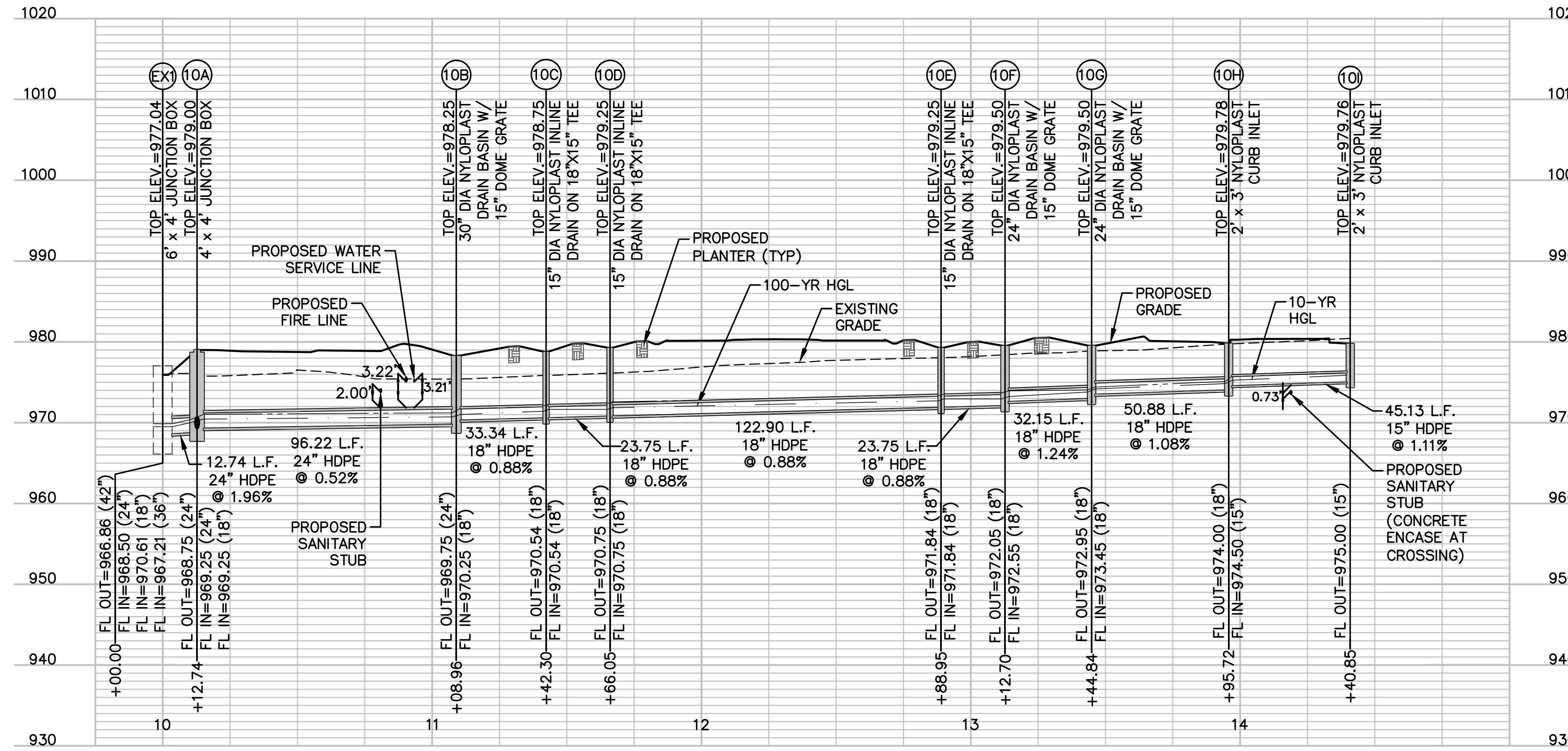
Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

Date: 9/22/17  
Job Number: 170534-010  
Drawn By: ELM  
Checked By: MDM

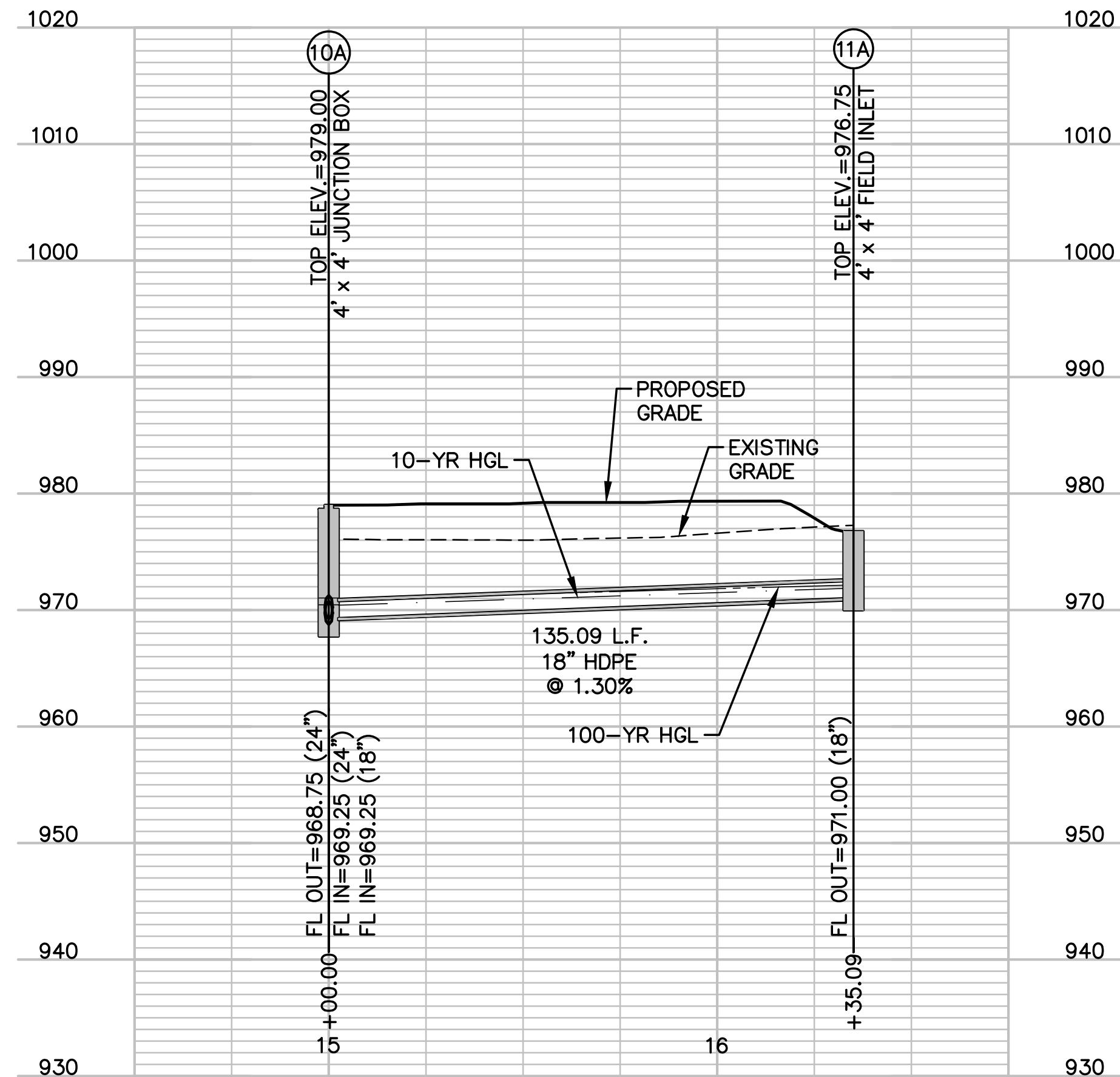
Revisions  

Number	Date	Description
1	10/30/17	CITY COMMENTS
2	11/28/17	CITY COMMENTS

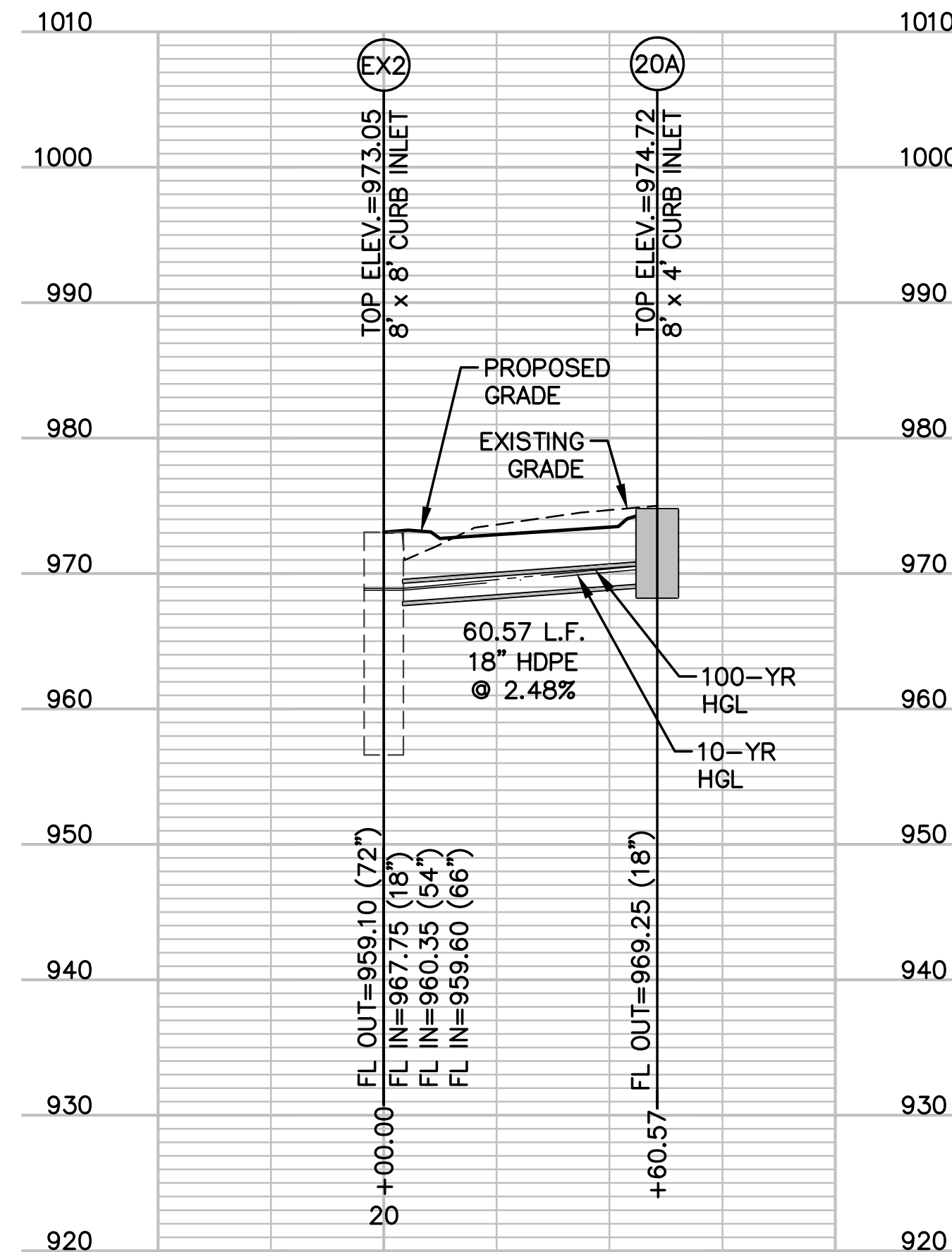
**STORM LINE 10 PROFILE**



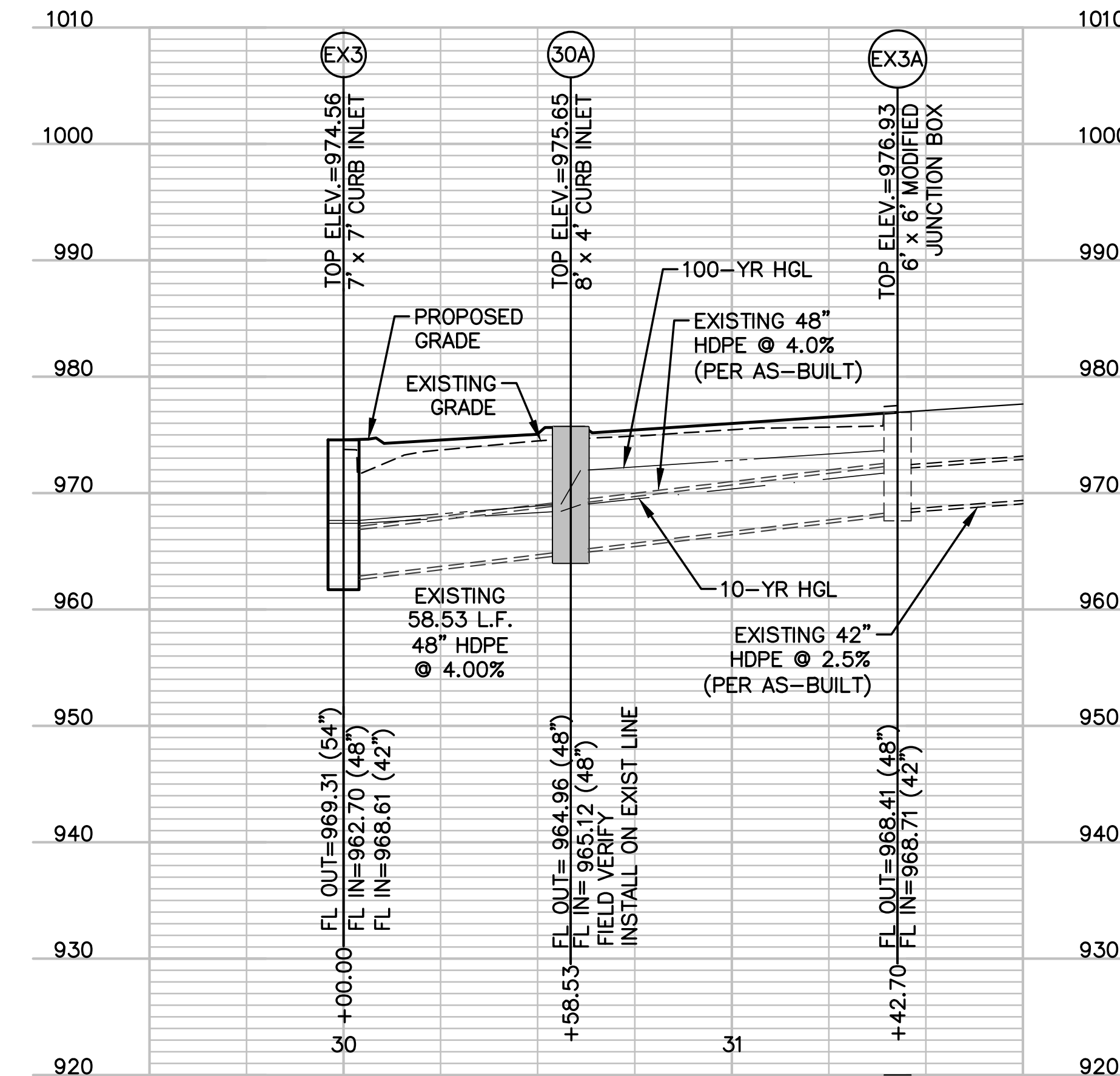
**STORM LINE 11 PROFILE**



**STORM LINE 20 PROFILE**



**STORM LINE 30 PROFILE**



Mark Daniel McGhee Jr.  
Civil Engineer  
MO# PE-2008019568



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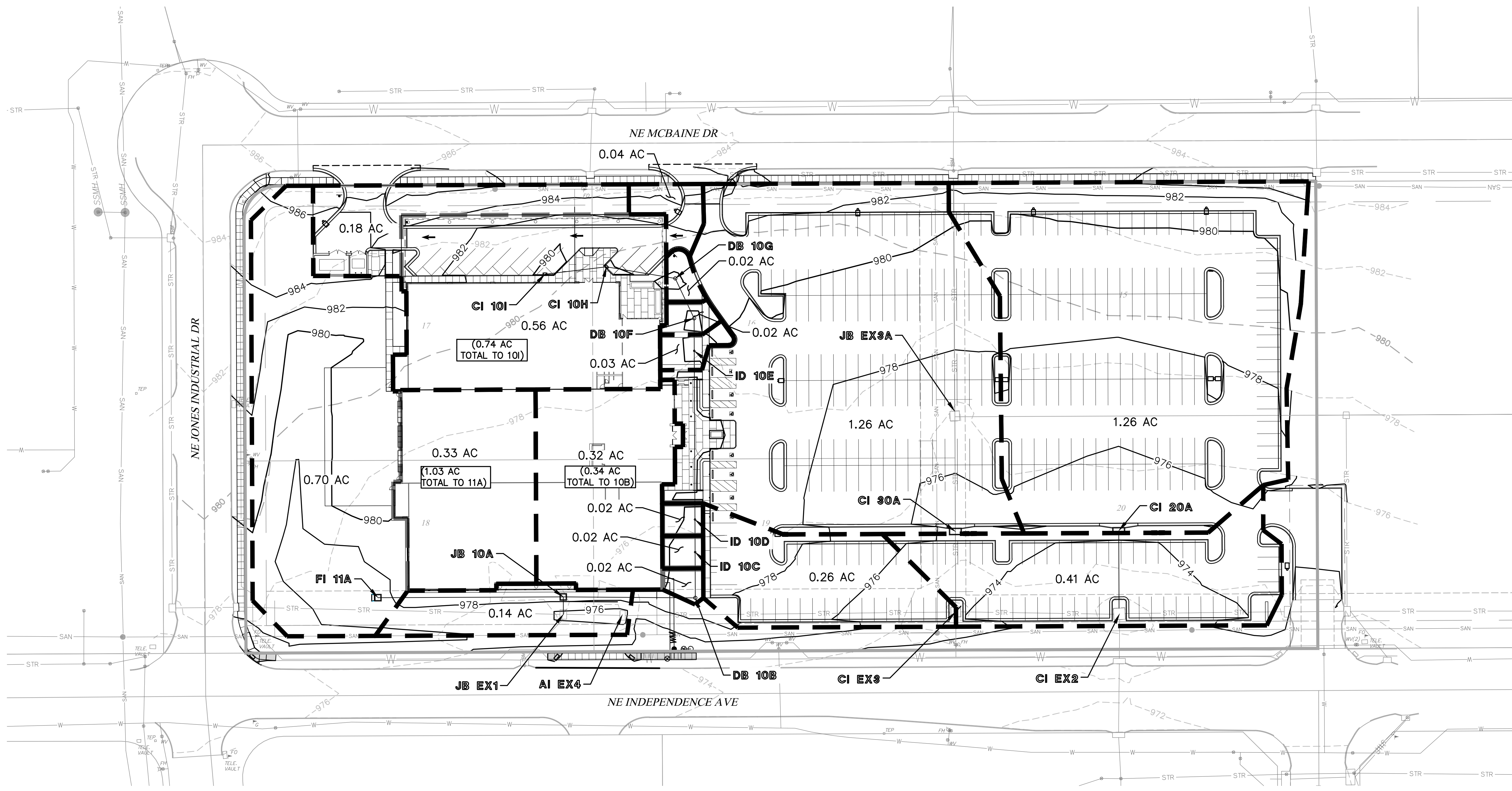
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SEE SHEET C15 FOR STORM CALCULATION SUMMARY



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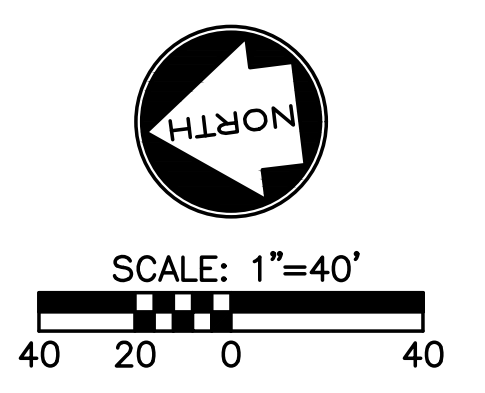
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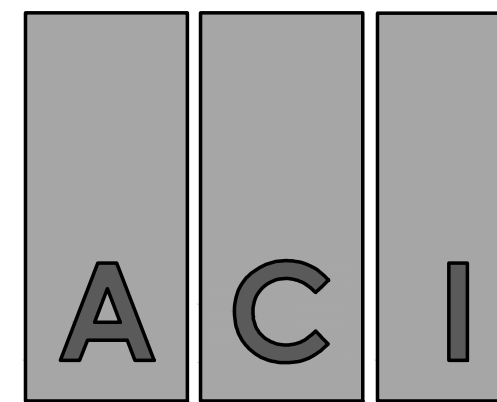
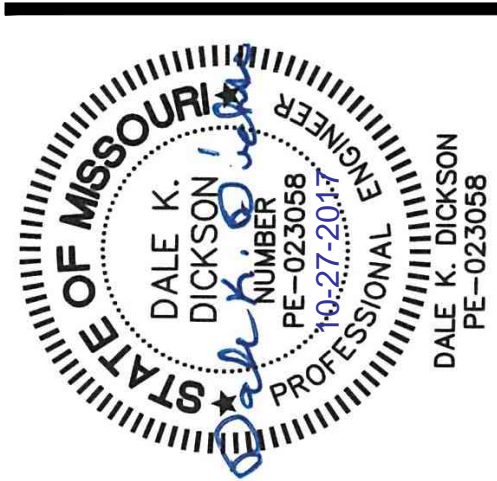
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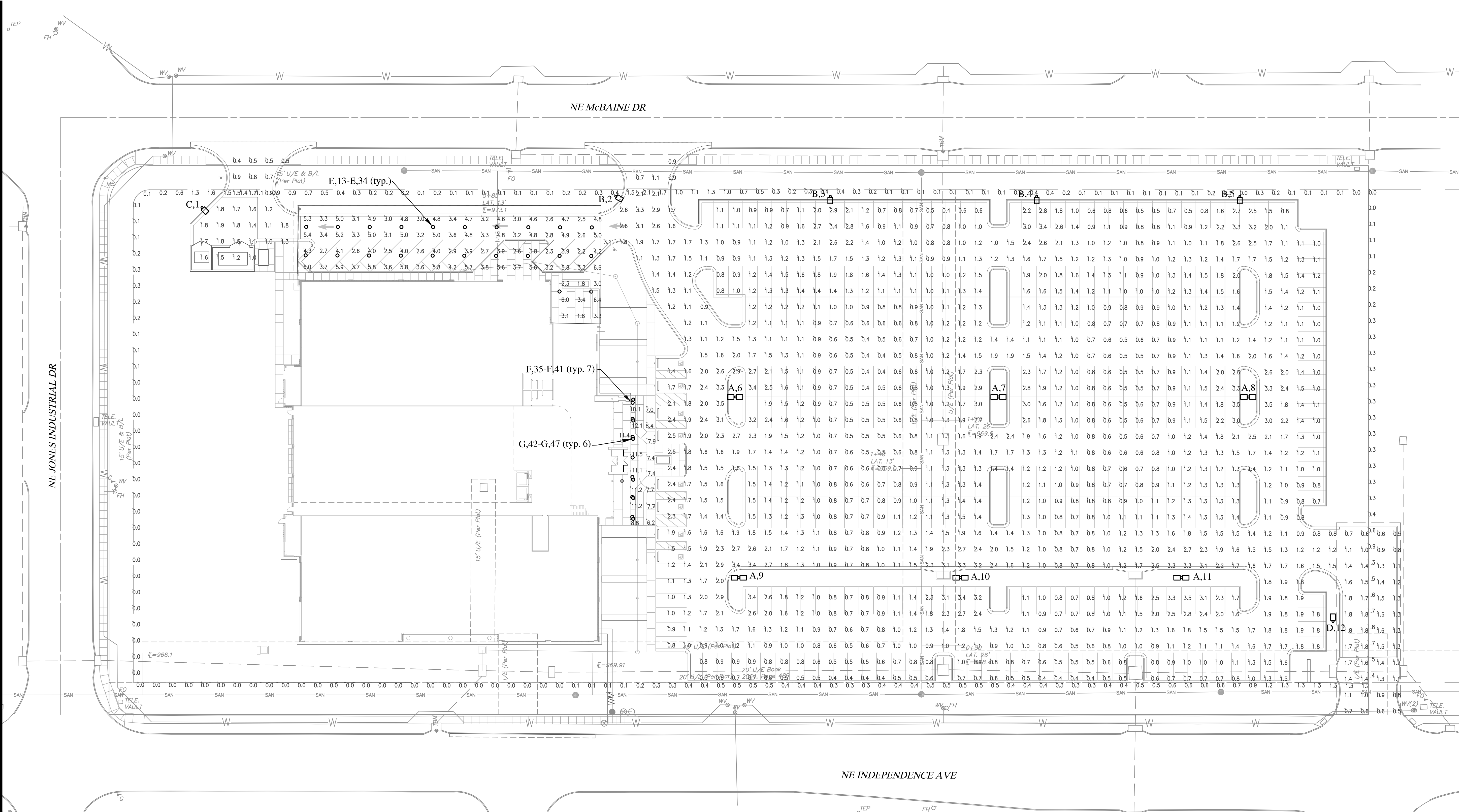
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Checked By: MDM

Revisions  
Number Date Description  
1 10/27/17 NEW SHEET

**C16**

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LIGHTING PLAN



**PLAN NOTES:**

1. ALL WORK AND MATERIAL SHALL COMPLY WITH THE 2011 NATIONAL ELECTRICAL CODE.
2. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, IN CURRENT USAGE.
3. THE PARKING LOT LIGHTING LAYOUT WAS BASED ON THE MCGRAW-VENTUS SERIES LED FIXTURE. EACH LUMINAIRE SHALL BE ADJUSTED AND LEVELED TO THE PAVEMENT. FIXTURE SHALL BE MOUNTED ON 25" ROUND GARDCO SRS255 POLE (SEE ARM MOUNT ORIENTATION REQUIRED FOR EA. POLE) AND 2.5' EXTENDED BASE.
4. VERIFY THE POLE AND ALL FIXTURE COLORS WITH THE ARCHITECT.
5. INDIVIDUAL AND SYSTEM GROUNDS SHALL BE INSTALLED ON ALL CIRCUITS.
6. LUMINAIRE ORIENTATION AND OPTICS ORIENTATION SHALL BE AS SHOWN ON THIS DRAWING.
7. POLE SETBACK SHALL BE AS SHOWN ON DRAWING.
8. POLES SHALL BE LOCATED IN LINE WITH PARKING LOT LINES WHERE APPLICABLE.

LUMINAIRE SCHEDULE					
Symbol	Label	Qty	Catalog Number	LLF	Watts
□	A	6	VTS-E04-LED-E1-T4	0.95	194.4
□	B	4	VTS-E06-LED-E1-SL4-HSS	0.95	150.5
□	C	1	VTS-E04-LED-E1-T4_1	0.95	97.2
□	D	1	VTS-E06-LED-E1-5MQ	0.95	150.5
○	E	22	LD6B20D010 EU6B10208040 6LBWH	0.95	20.8
○	F	7	LD6B40D010 EU6B30508035 6LBNH	0.95	41.8
○	G	6	RW404-56L45T5-MD_03	0.95	66.2

STATISTICS					
Description	Symbol	Avg	Max	Min	Max/Min
SITE	+	1.30	3.5	0.4 fc	8.7:1
					3.3:1



SCALE: 1"=30'



## DESCRIPTION

The VENTSUR LED area luminaire provides uncompromising optical performance and outstanding versatility for a wide variety of area and roadway applications. Patent pending modular LightBAR™ technology delivers uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and any security lighting application. UL/CUL Listed for wet locations.

Category #	Type
Project	Date
Comments	
Prepared by	

## CONSTRUCTION FEATURES

**Construction**  
Die-cast aluminum frame assures thermally conductive, extruded aluminum heat sink to insulate electrical chamber. Heavy wall, die-cast aluminum housing and door isolates driver components for cooler operation. The unique construction allows for passive cooling and natural cleaning of the extruded heat sink ensuring reliable operation at 40°C high ambient conditions. Stainless steel fasteners and hinging allow access to electrical components for installation and maintenance. Optional tool-less hardware available for ease of entry into electrical chamber.

**Electrical**  
LED drivers mounted to die-cast aluminum back housing for optimal heat sinking, operation efficiency and prolonged life. Standard drivers feature electronic universal voltage (120/277V/50/60Hz), 347V/60Hz or 480V/60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in 40°C to 40°C ambient environments. All fixtures are shipped standard with IEEE802.3af PoE. Occupancy sensor and dimming options available.

**Finish**  
Cast components and arm finished in heavy TIG polycarbonate powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

**Warranty**  
Five-year warranty.

**Mounting**  
Cast aluminum 6" arm includes bolt guides allowing for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter for contractor friendly arrival of product on site. Optional internal mass mount accepts a 1.5" to 2" O.D. horizontal tension, while a two-bolt mounting mechanism secures fixture. Cast-in leveling guides designed to assemble leveling adjustment. Tension adapters available to adjust pole equipped with 2.38" or 3.12" O.D. tension. 30 vibration rated.

Model #	Series	Length (ft)	Weight (lbs)	Power (W)	Beam Spread (ft)
2-12 LightBAR	AREA LUMINAIRE	12	15.0	150	12

## CERTIFICATION DATA

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## ENERGY DATA

Model #	Series	Length (ft)	Weight (lbs)	Power (W)	Beam Spread (ft)
2-12 LightBAR	AREA LUMINAIRE	12	15.0	150	12

## SHIPPING DATA

Model #	Series	Length (ft)	Weight (lbs)	Power (W)	Beam Spread (ft)
2-12 LightBAR	AREA LUMINAIRE	12	15.0	150	12

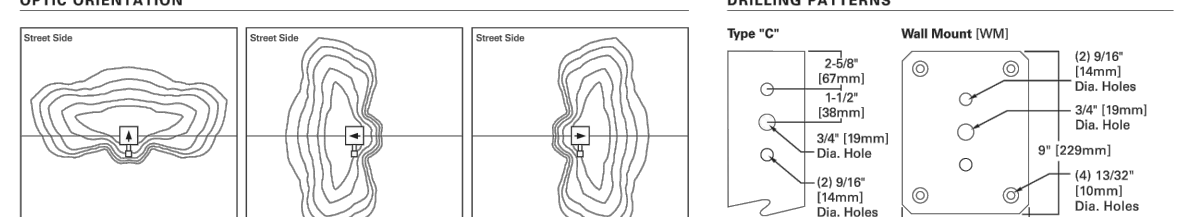
## WARRANTY

Five-year warranty.

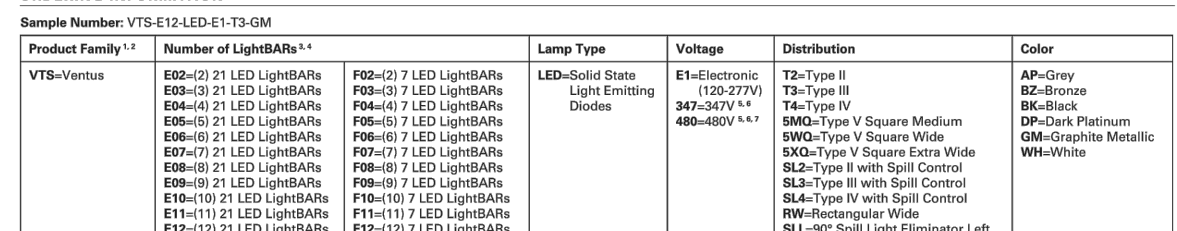
## 25' POLE



## OPTIC ORIENTATION



## DILLING PATTERNS



## ORDERING INFORMATION

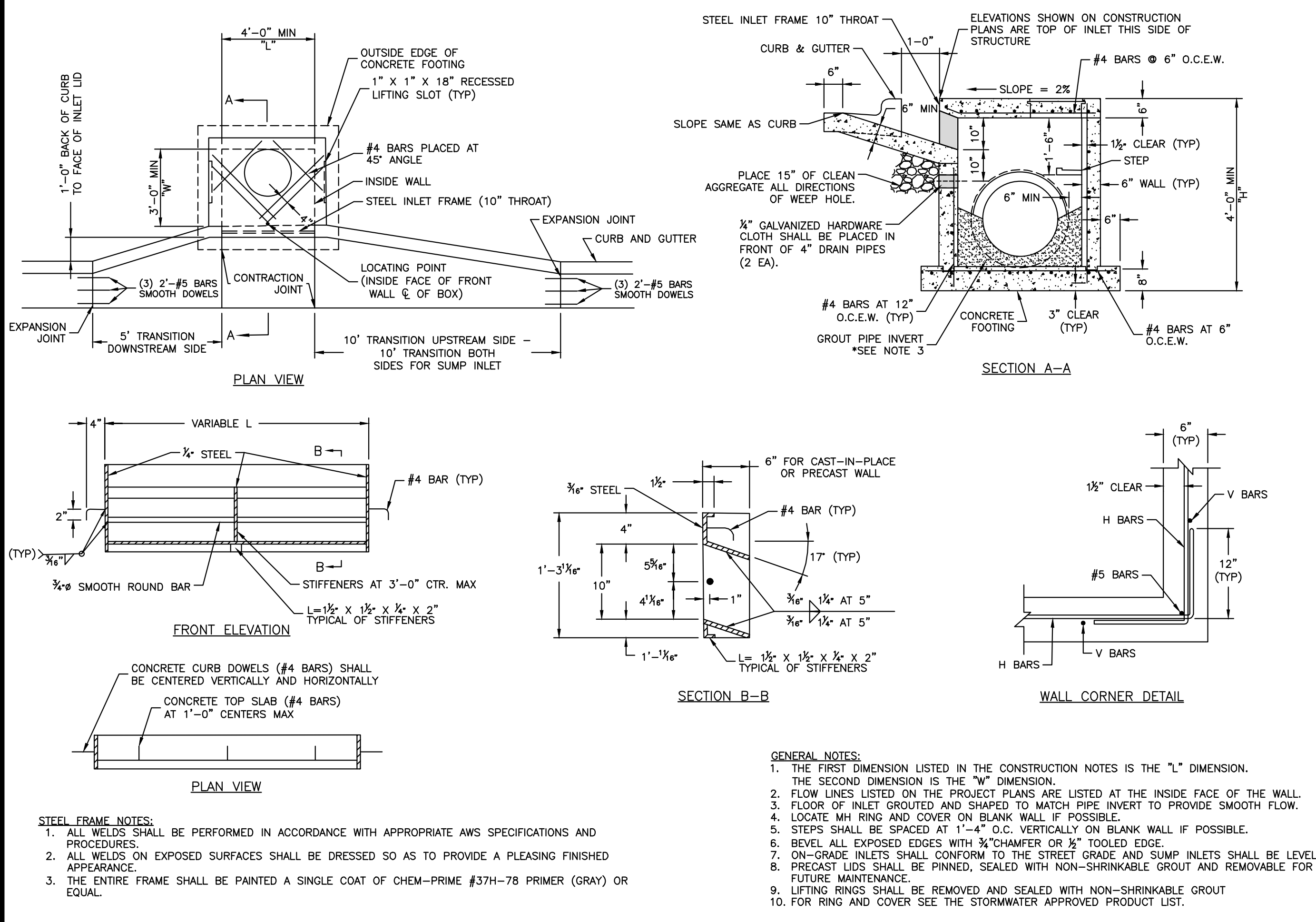
Sample Number	Series	Length (ft)	Weight (lbs)	Power (W)	Beam Spread (ft)
VTS-12	AREA LUMINAIRE	12	15.0	150	12

## OPTICS (Add as Suffix)

Optic	Beam Spread (ft)
24°	2.4
30°	3.0
36°	3.6
42°	4.2
48°	4.8
54°	5.4
60°	6.0
66°	6.6
72°	7.2
78°	7.8
84°	8.4
90°	9.0

## ACCESSORIES (Order Separately)\*\*

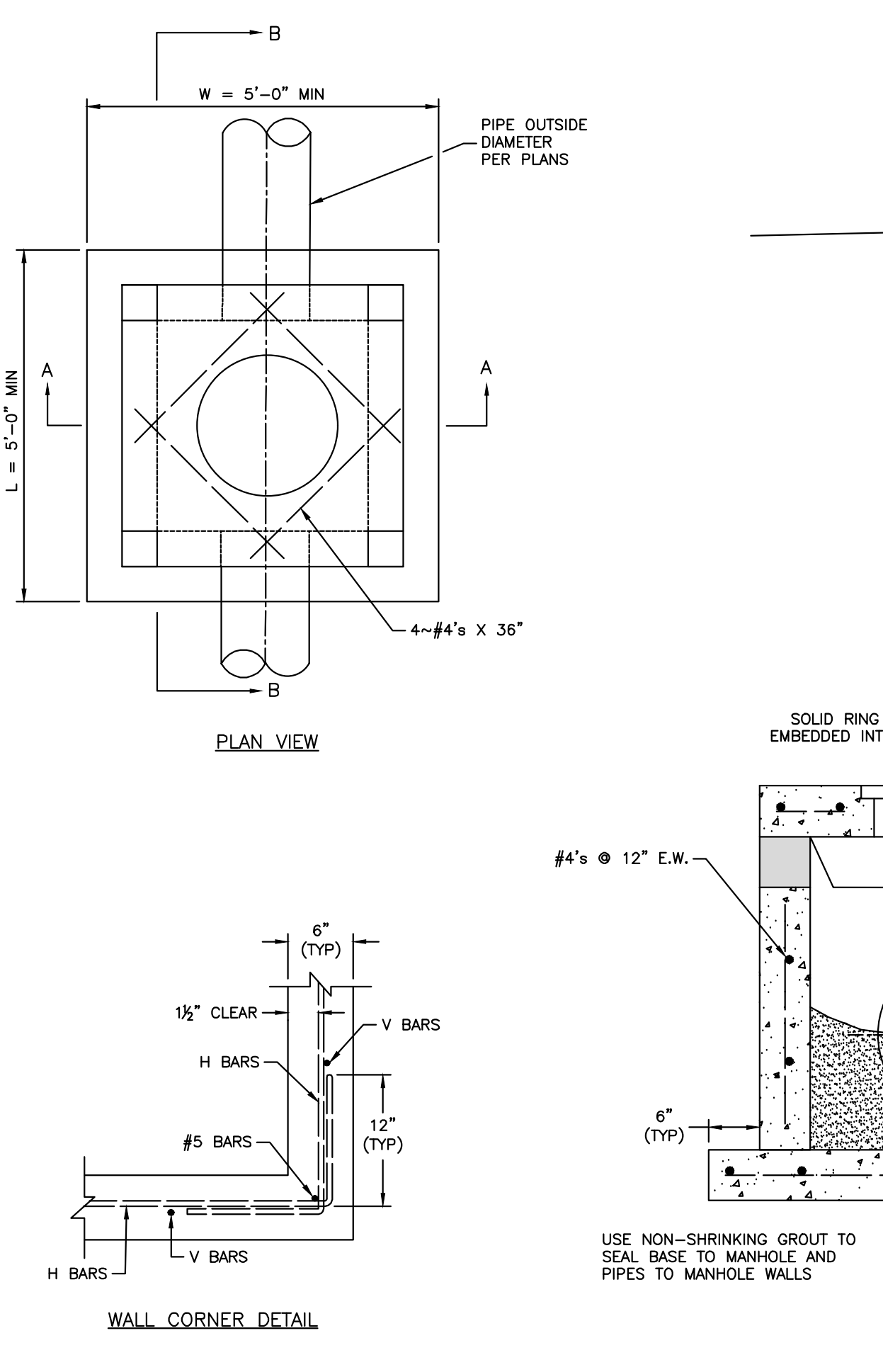
Accessory	Part Number
120-277V and 347-480V available.	120-277V and 347-480V
External driver power supply >= 3.0A	External driver power supply
External surge protection in accordance with IEEE/ANSI C82.41.2	External surge protection
UL-ET listed in U.S. and Canada.	UL-ET listed
Color: Durable, color retentive powder coat finish.	Color retentive powder coat finish
Warranty & Standards: LED Drivers and Chassis - 7 years. All fixtures will be free from all defects in materials and workmanship for a period of 7 years from the date of manufacture. The luminaire manufacturer shall warrant the LED components, during the stated warranty period, against failure caused by any cause other than 10-year product life.	Warranty & Standards
LED Drivers: 120-277V, 347-480V, 480V, 600V, 720V, 840V, 960V, 1080V, 1200V, 1320V, 1440V, 1560V, 1680V, 1800V, 1920V, 2040V, 2160V, 2280V, 2400V, 2520V, 2640V, 2760V, 2880V, 3000V, 3120V, 3240V, 3360V, 3480V, 3600V, 3720V, 3840V, 3960V, 4080V, 4200V, 4320V, 4440V, 4560V, 4680V, 4800V, 4920V, 5040V, 5160V, 5280V, 5400V, 5520V, 5640V, 5760V, 5880V, 6000V, 6120V, 6240V, 6360V, 6480V, 6600V, 6720V, 6840V, 6960V, 7080V, 7200V, 7320V, 7440V, 7560V, 7680V, 7800V, 7920V, 8040V, 8160V, 8280V, 8400V, 8520V, 8640V, 8760V, 8880V, 9000V, 9120V, 9240V, 9360V, 9480V, 9600V, 9720V, 9840V, 9960V, 10080V, 10200V, 10320V, 10440V, 10560V, 10680V, 10800V, 10920V, 11040V, 11160V, 11280V, 11400V, 11520V, 11640V, 11760V, 11880V, 12000V, 12120V, 12240V, 12360V, 12480V, 12600V, 12720V, 12840V, 12960V, 13080V, 13200V, 13320V, 13440V, 13560V, 13680V, 13800V, 13920V, 14040V, 14160V, 14280V, 14400V, 14520V, 14640V, 14760V, 14880V, 15000V, 15120V, 15240V, 15360V, 15480V, 15600V, 15720V, 15840V, 15960V, 16080V, 16200V, 16320V, 16440V, 16560V, 16680V, 16800V, 16920V, 17040V, 17160V, 17280V, 17400V, 17520V, 17640V, 17760V, 17880V, 18000V, 18120V, 18240V, 18360V, 18480V, 18600V, 18720V, 18840V, 18960V, 19080V, 19200V, 19320V, 19440V, 19560V, 19680V, 19800V, 19920V, 20040V, 20160V, 20280V, 20400V, 20520V, 20640V, 20760V, 20880V, 21000V, 21120V, 21240V, 21360V, 21480V, 21600V, 21720V, 21840V, 21960V, 22080V, 22200V, 22320V, 22440V, 22560V, 22680V, 22800V, 22920V, 23040V, 23160V, 23280V, 23400V, 23520V, 23640V, 23760V, 23880V, 24000V, 24120V, 24240V, 24360V, 24480V, 24600V, 24720V, 24840V, 24960V, 25080V, 25200V, 25320V, 25440V, 25560V, 25680V, 25800V, 25920V, 26040V, 26160V, 26280V, 26400V, 26520V, 26640V, 26760V, 26880V, 27000V, 27120V, 27240V, 27360V, 27480V, 27600V, 27720V, 27840V, 27960V, 28080V, 28200V, 28320V, 28440V, 28560V, 28680V, 28800V, 28920V, 29040V, 29160V, 29280V, 29400V, 29520V, 29640V, 29760V, 29880V, 30000V, 30120V, 30240V, 30360V, 30480V, 30600V, 30720V, 30840V, 30960V, 31080V, 31200V, 31320V, 31440V, 31560V, 31680V, 31800V, 31920V, 32040V, 32160V, 32280V, 32400V, 32520V, 32640V, 32760V, 32880V, 33000V, 33120V, 33240V, 33360V, 33480V, 33600V, 33720V, 33840V, 33960V, 34080V, 34200V, 34320V, 34440V, 34560V, 34680V, 34800V, 34920V, 35040V, 35160V, 35280V, 35400V, 35520V, 35640V, 35760V, 35880V, 36000V, 36120V, 36240V, 36360V, 36480V, 36600V, 36720V, 36840V, 36960V, 37080V, 37200V, 37320V, 37440V, 37560V, 37680V, 37800V, 37920V, 38040V, 38160V, 38280V, 38400V, 38520V, 38640V, 38760V, 38880V, 39000V, 39120V, 39240V, 39360V, 39480V, 39600V, 39720V, 39840V, 39960V, 40080V, 40200V, 40320V, 40440V, 40560V, 40680V, 40800V, 40920V, 41040V, 41160V, 41280V, 41400V, 41520V, 41640V, 41760V, 41880V, 42000V, 42120V, 42240V, 42360V, 42480V, 42600V, 42720V, 42840V, 42960V, 43080V, 43200V, 43320V, 43440V, 43560V, 43680V, 43800V, 43920V, 44040V, 44160V, 44280V, 44400V, 44520V, 44640V, 44760V, 44880V, 45000V, 45120V, 45240V, 45360V, 45480V, 45600V, 45720V, 45840V, 45960V, 46080V, 46200V, 46320V, 46440V, 46560V, 46680V, 46800V, 46920V, 47040V, 47160V, 47280V, 47400V, 47520V, 47640V, 47760V, 47880V, 48000V, 48120V, 48240V, 48360V, 48480V, 48600V, 48720V, 48840V, 48960V, 49080V, 49200V, 49320V, 49440V, 49560V, 49680V, 49800V, 49920V, 50040V, 50160V, 50280V, 50400V, 50520V, 50640V, 50760V, 50880V, 51000V, 51120V, 51240V, 51360V, 51480V, 51600V, 51720V, 51840V, 51960V, 52080V, 52200V, 52320V, 52440V, 52560V, 52680V, 52800V, 52920V, 53040V, 53160V, 53280V, 53400V, 53520V, 53640V, 53760V, 53880V, 540	



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

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

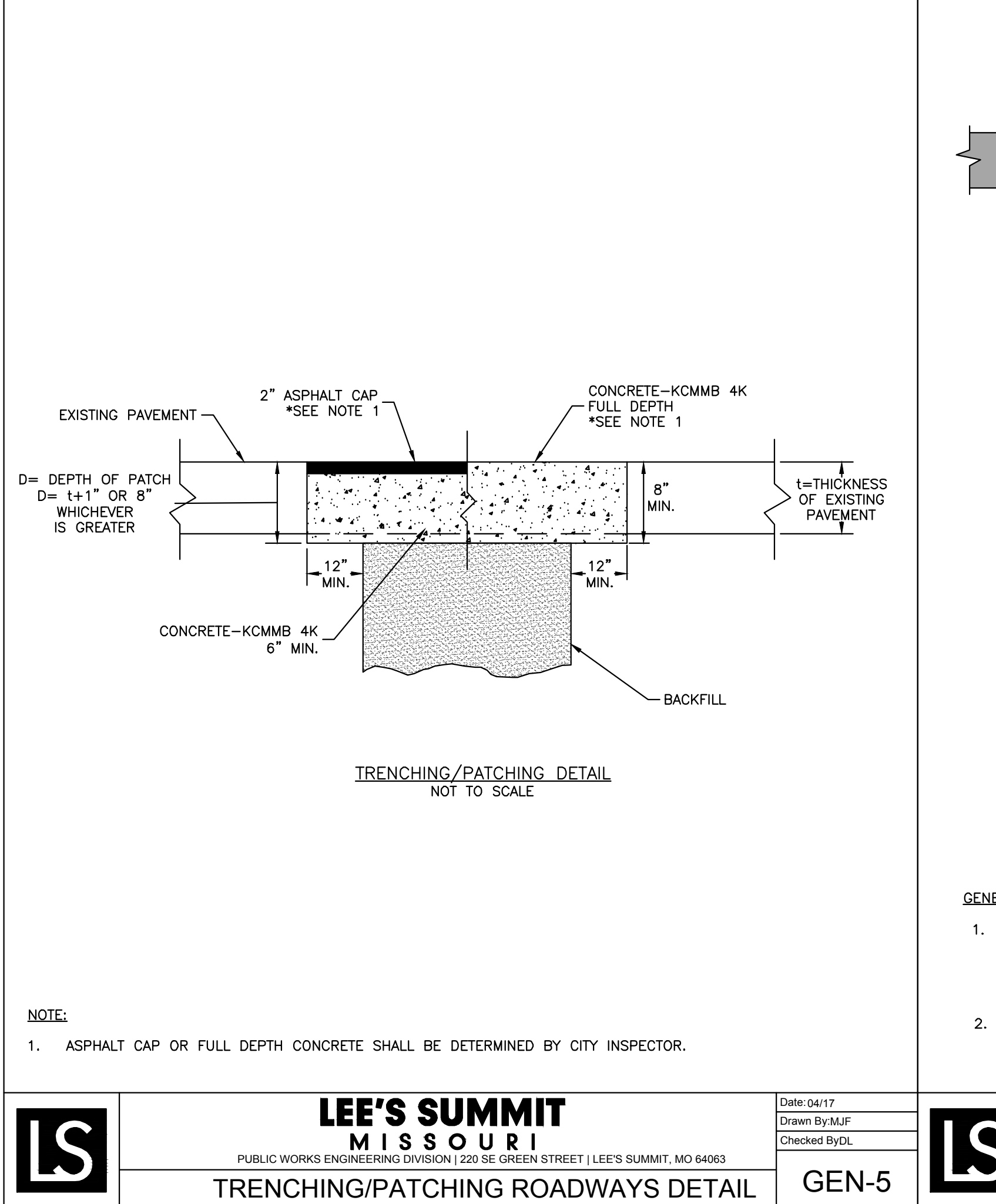
**STM-1**



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

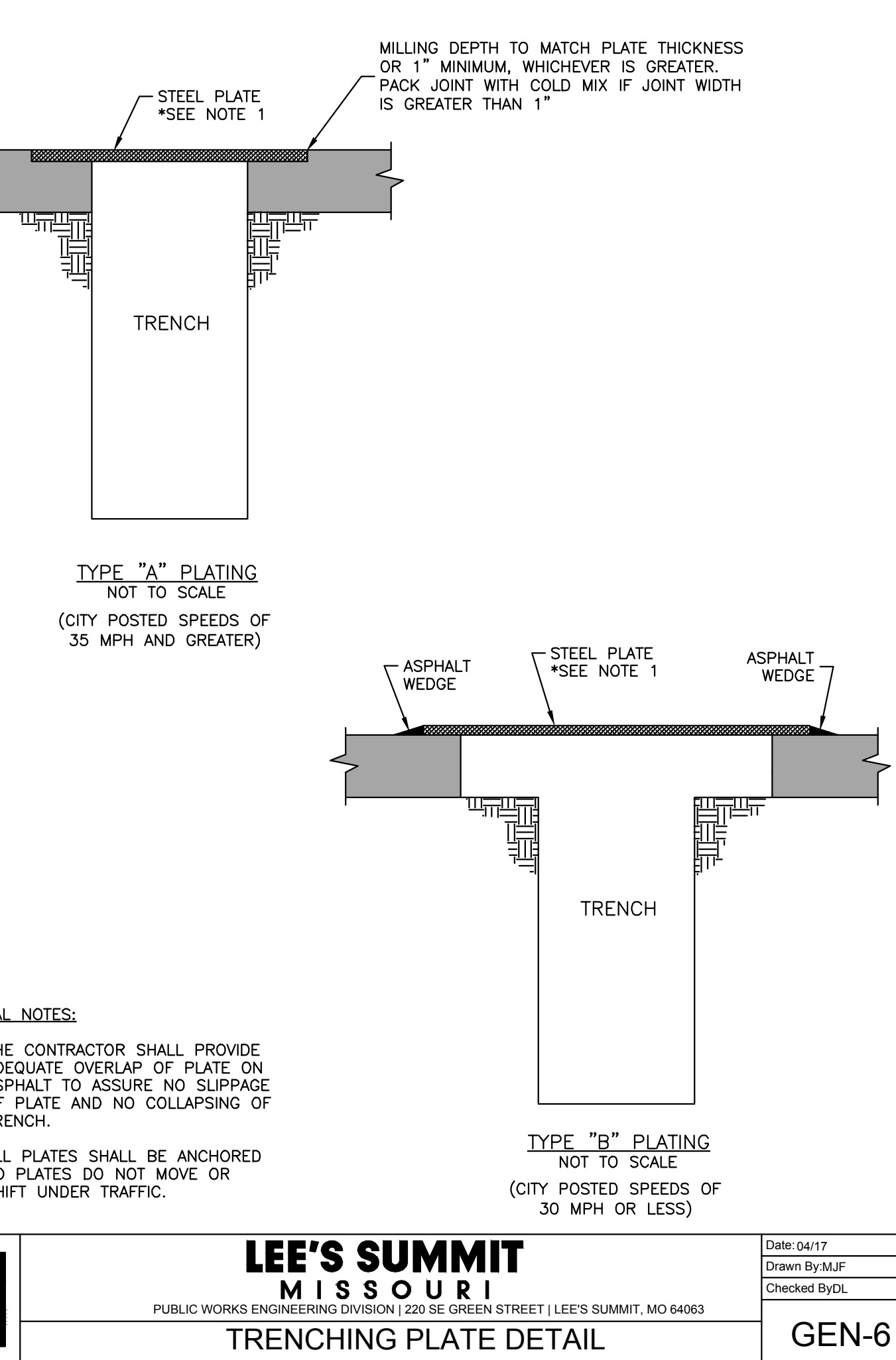
**STM-2**



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

**TRENCHING/PATCHING ROADWAYS DETAIL**

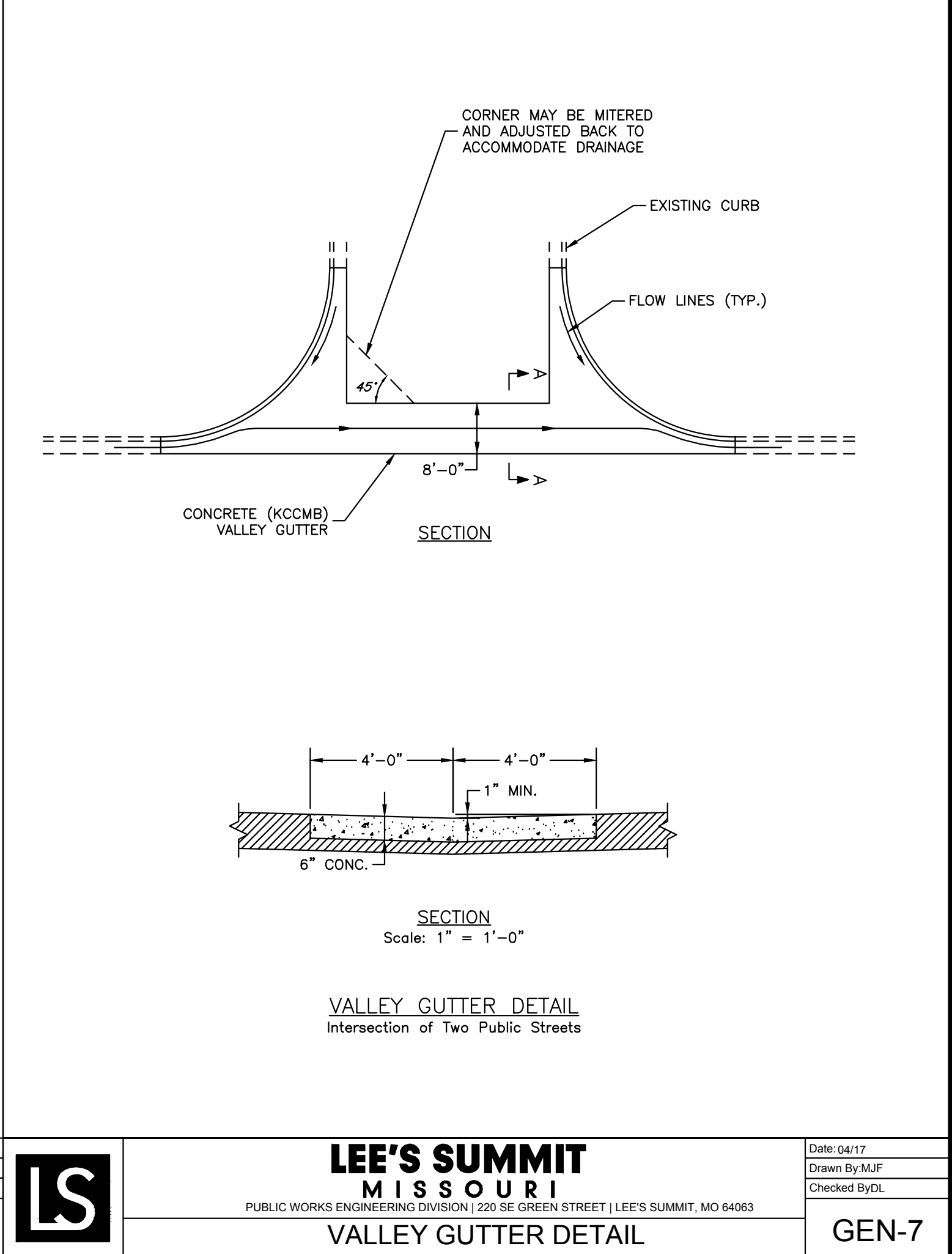
**GEN-5**



**LEE'S SUMMIT MISSOURI**  
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**TRENCHING PLATE DETAIL**

**GEN-6**



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

**VALLEY GUTTER DETAIL**

**GEN-7**

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

**ACI BOLAND ARCHITECTS**  
17107 Chesterfield Airport Road | Suite 110  
Chesterfield, Missouri 63005  
T: 314.991.9993  
aciboland.com

**CIVIL CONSULTANT**  
Shafer, Kline & Warren, Inc.  
11250 Corporate Avenue  
Lenexa, Kansas 66219  
913.888.7800  
State Certificate of Authority #000143

**STRUCTURAL CONSULTANT**  
KPFF, Inc.  
1610 Des Peres Road, Suite 100  
St. Louis, Missouri 63131  
314.835.0524  
State Certificate of Authority #2001010829

**MEP/FP CONSULTANT**  
G&W Engineering Corporation  
138 Weldon Parkway  
Maryland Heights, Missouri 63043  
314.737.4200  
State Certificate of Authority #2002018767

Mark Daniel McGhee Jr.  
Civil Engineer  
MO# PE-2008019568

Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

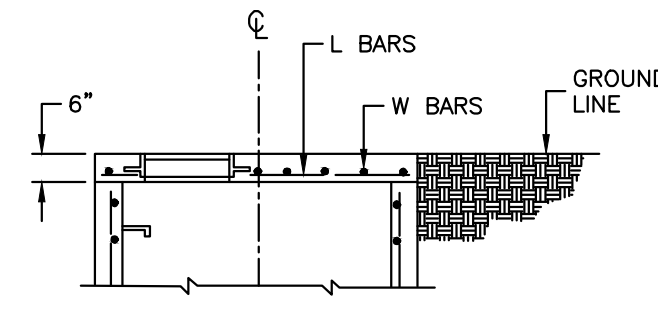
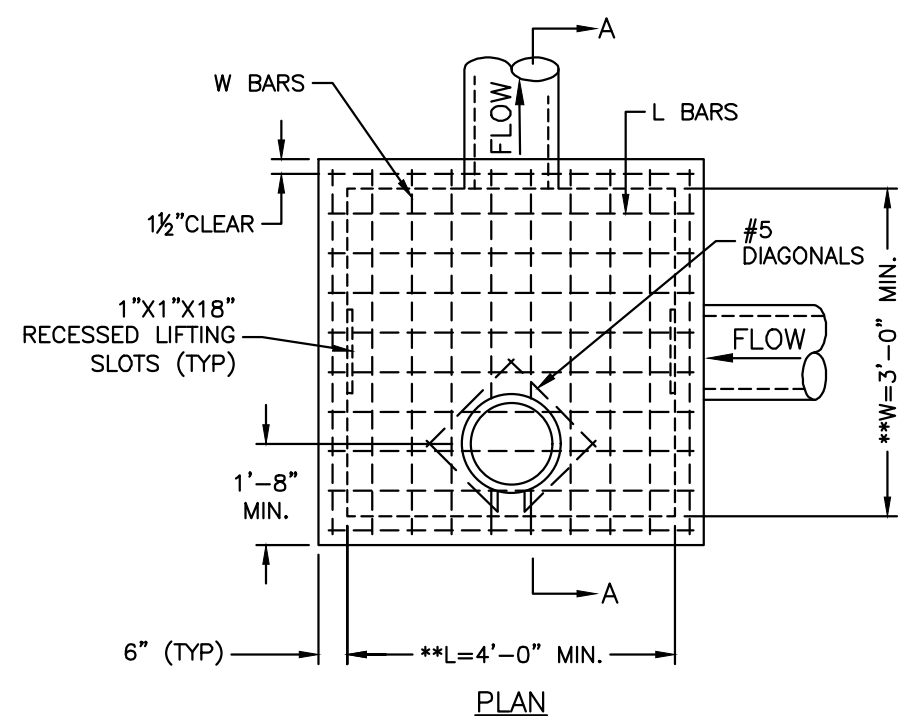
Date: 9/22/17  
Job Number: 170534-010  
Drawn By: ELM  
Checked By: MDM

Revisions	Number	Date	Description
1	10/30/17	CITY COMMENTS	CITY COMMENTS
2	11/28/17	CITY COMMENTS	CITY COMMENTS

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

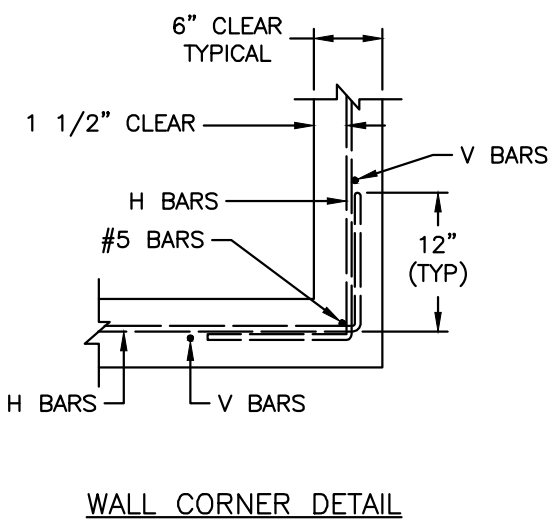
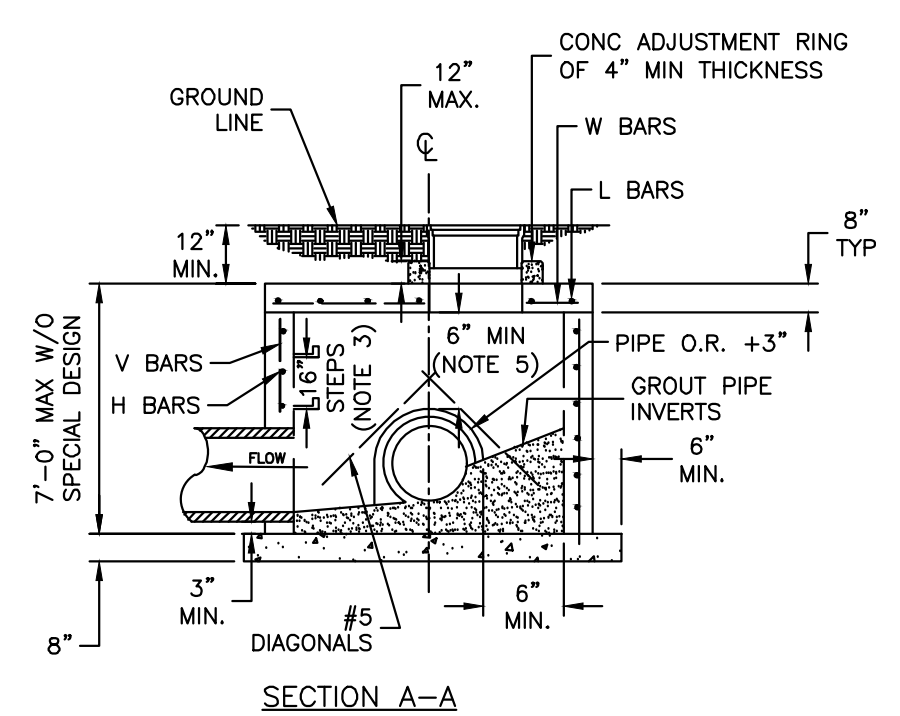
**VALLEY GUTTER DETAIL**

**GEN-7**



\*\* INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING		
BAR	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6

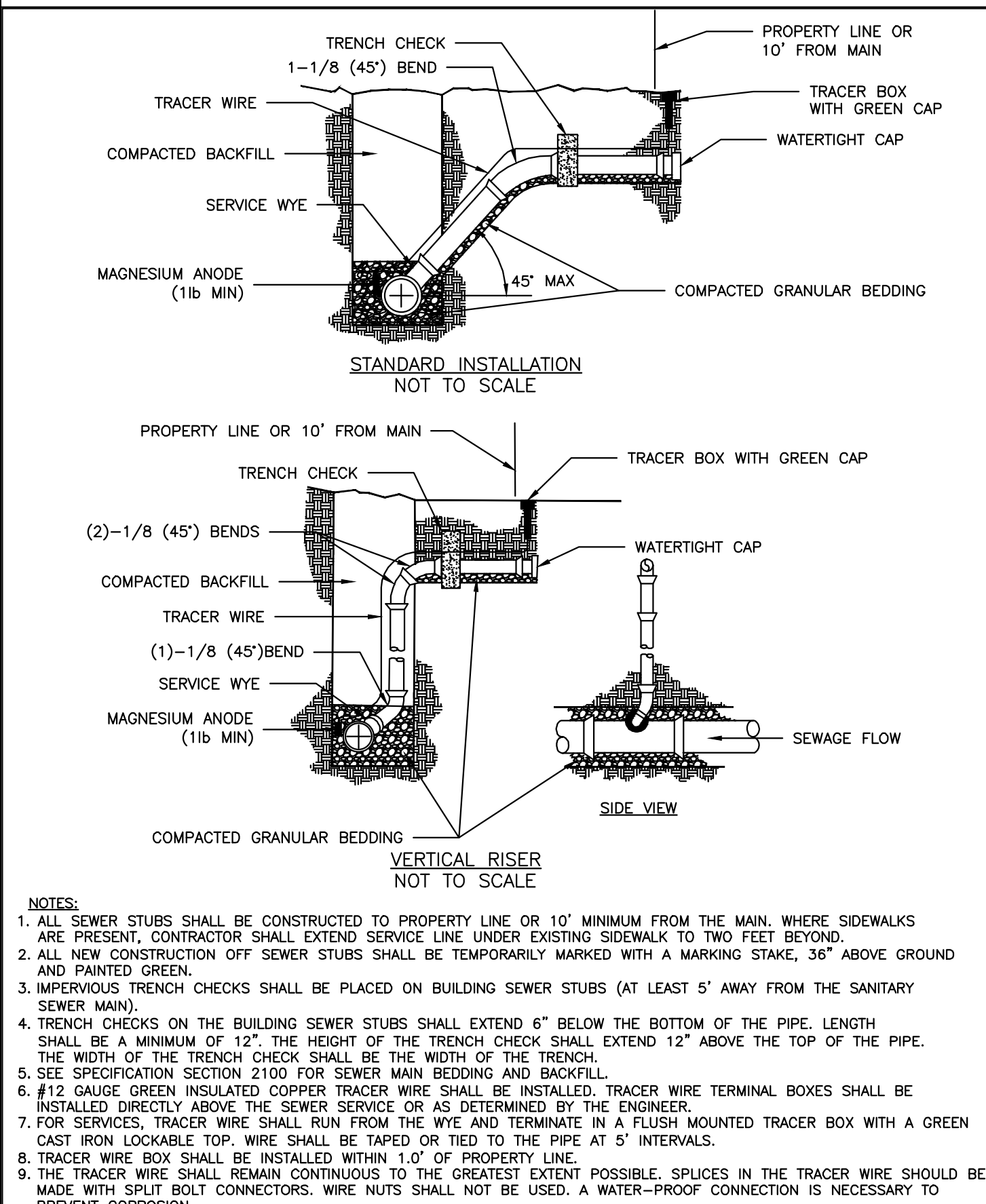


- GENERAL NOTES:**
1. LOCATE RING AND COVER ON BLANK WALL.
  2. USE 3/4" CHAMFER STRIP OR 3/4" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
  3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
  4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
  5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
  6. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
  7. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
  8. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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

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

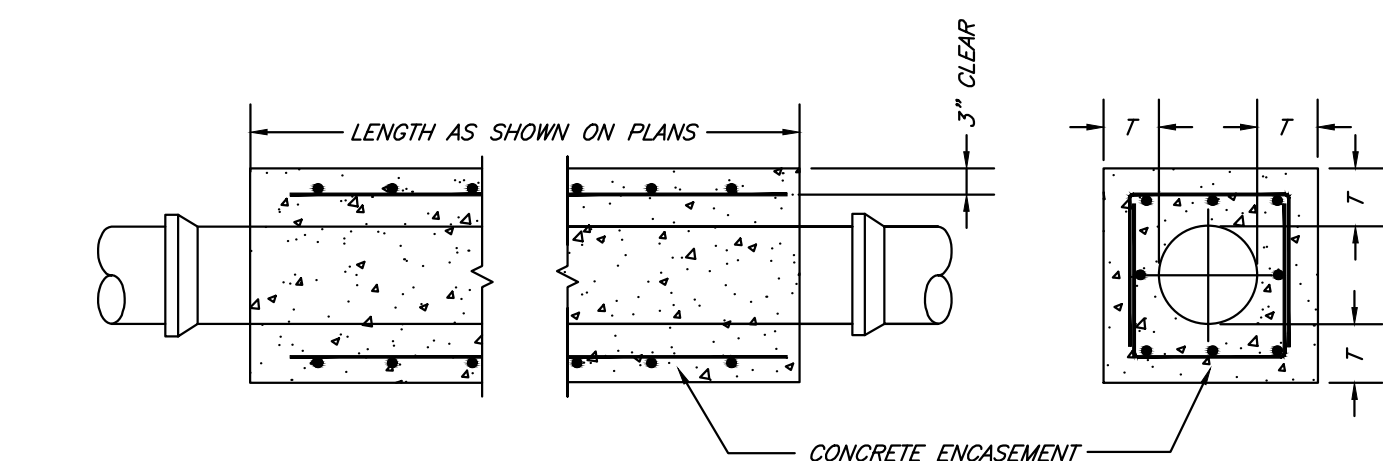
STM-3



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

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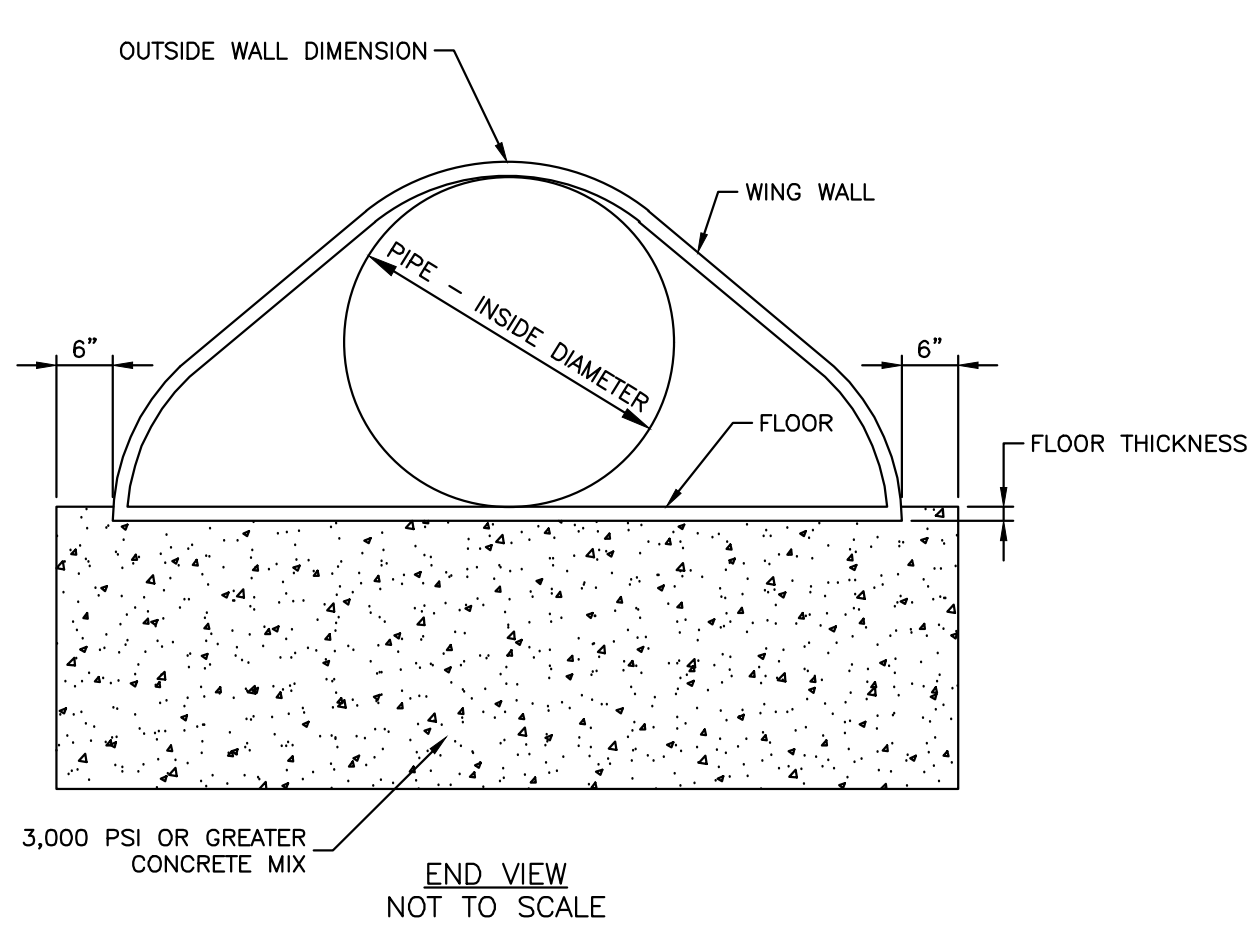
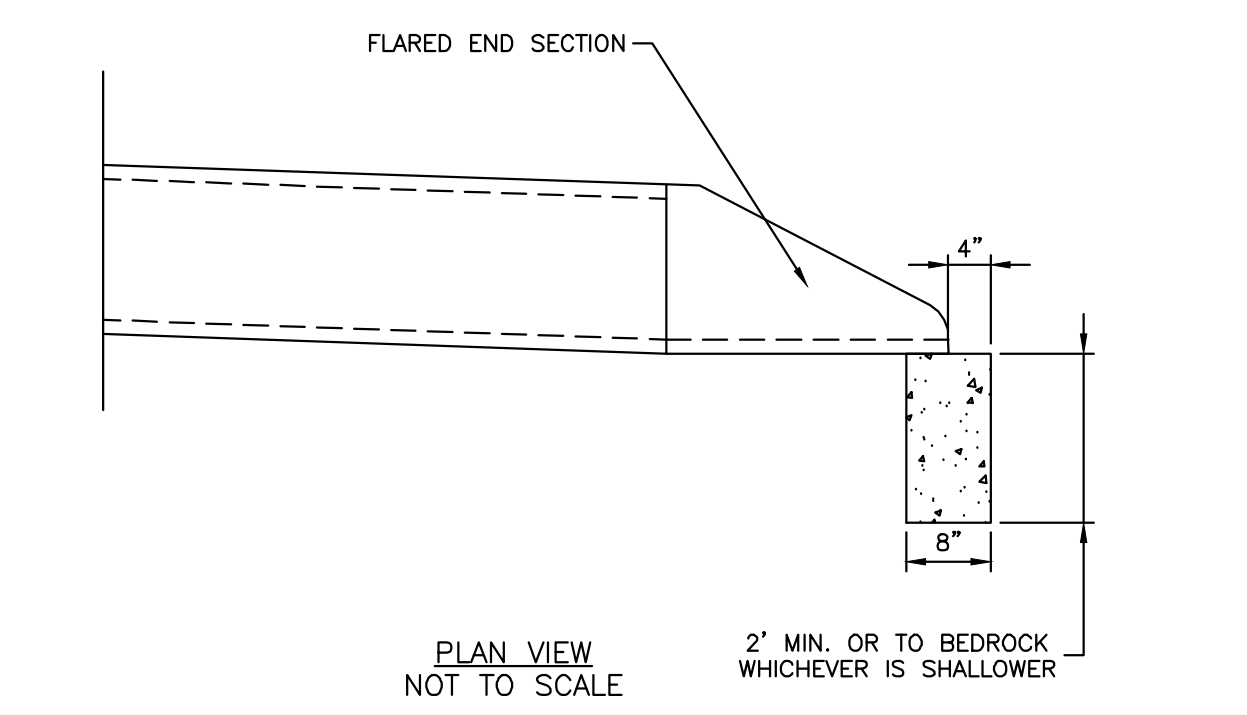
BUILDING SEWER STUB AND RISER



- NOTES:**
1. FOR PIPES LESS THAN 15", T = 6" MIN.
  2. FOR PIPES 15" THRU 36", T = 8" MIN.
  3. INTERMEDIATE BELLS SHALL BE ENCASED.
  4. REINFORCING STEEL SHALL BE #4 @ 12" O.C. EACH WAY WITH A MINIMUM REBAR LAP OF 12".

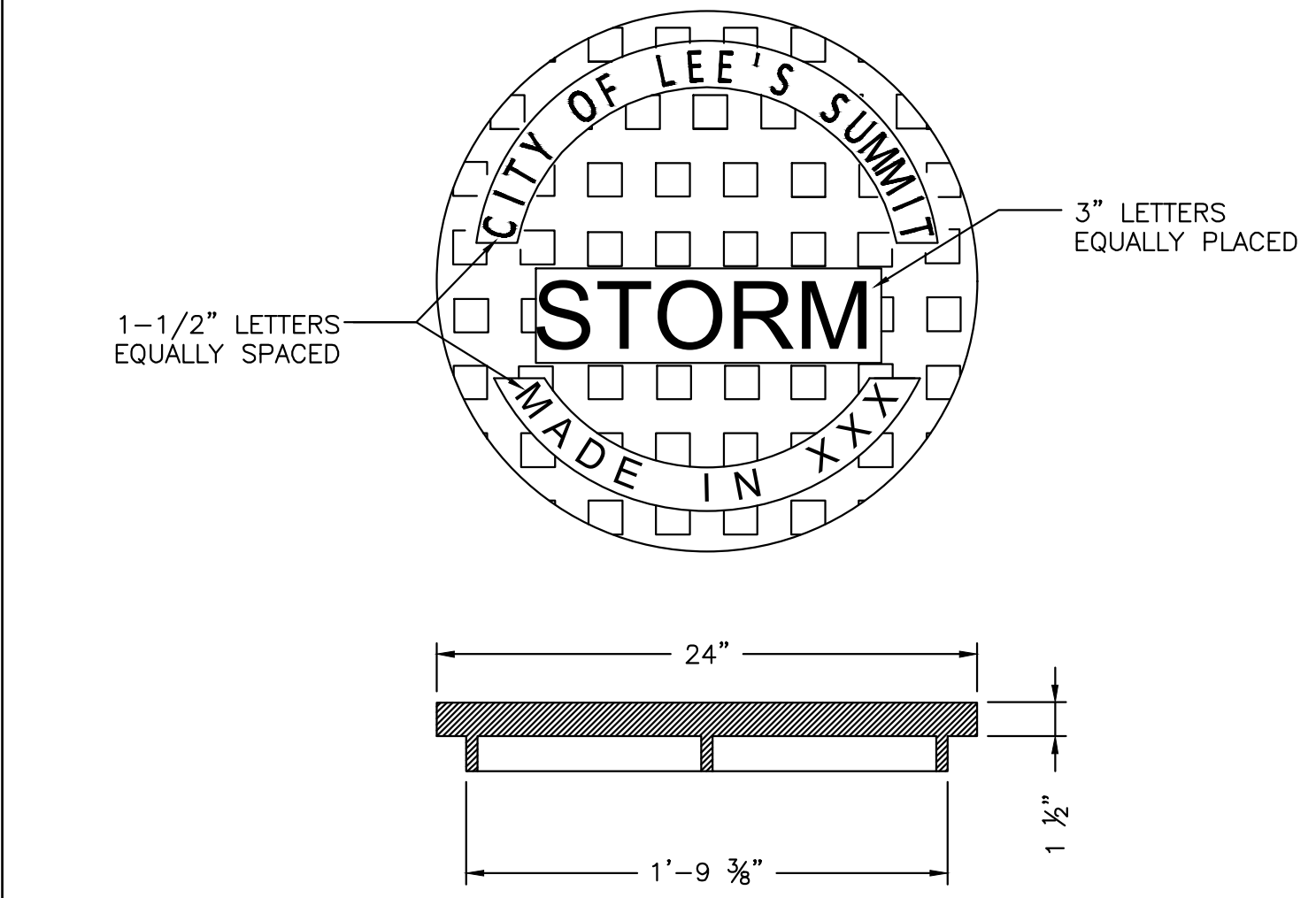
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SANITARY PIPE ENCASEMENT



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

FLARED END SECTION SUPPORT DETAIL

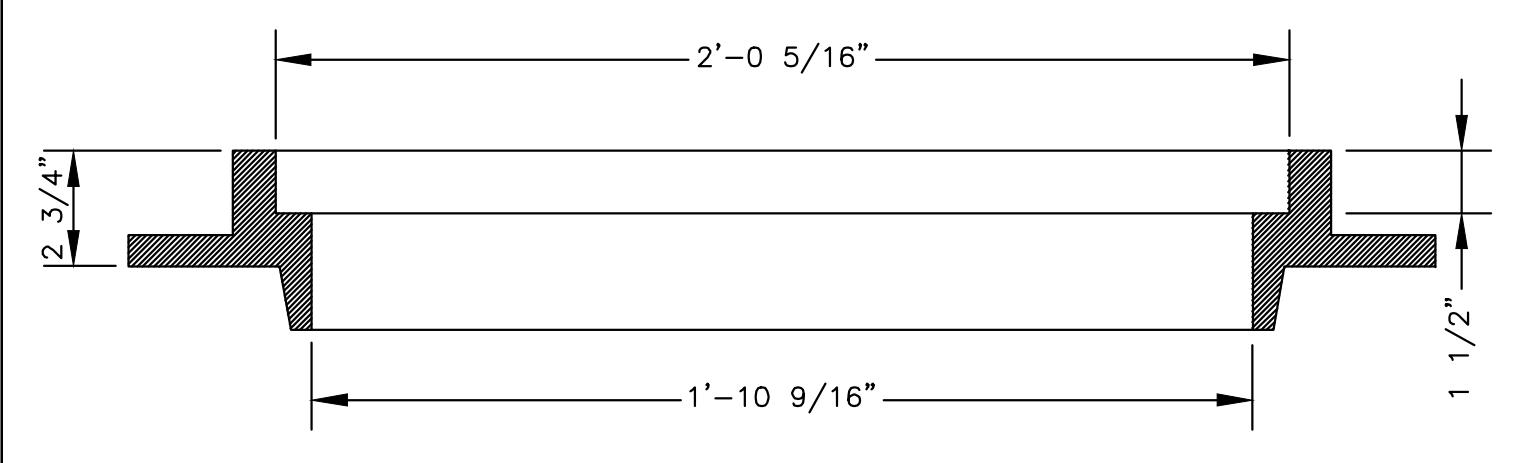


STANDARD 24" MANHOLE COVER  
MINIMUM WEIGHT = 160 LB  
NOTE: PICK HOLES NOT SHOWN

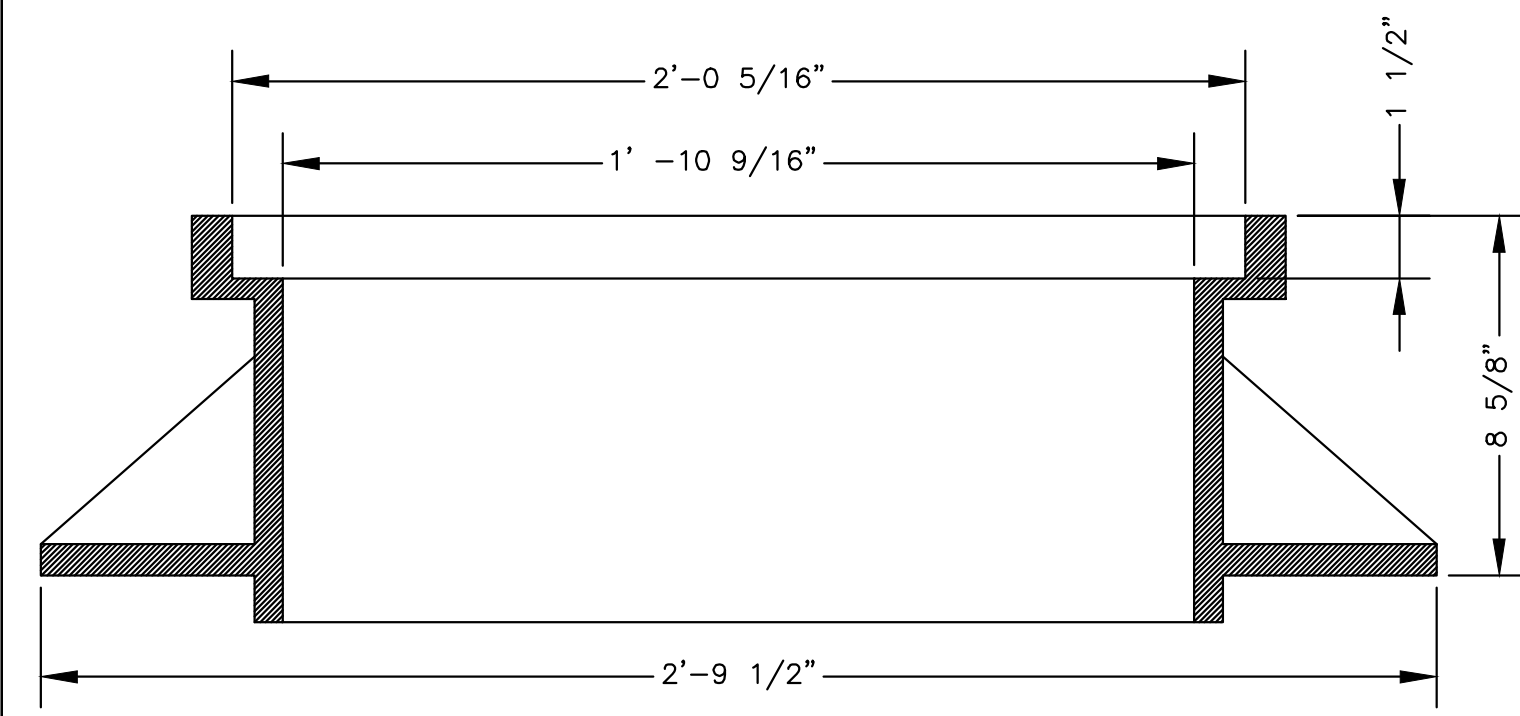
\*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

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STORM MANHOLE COVER DETAIL



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



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

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

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STORM MANHOLE FRAME DETAIL

**ACI BOLAND ARCHITECTS**  
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Missouri No.: 000958 (Expires: 12.31.2017)

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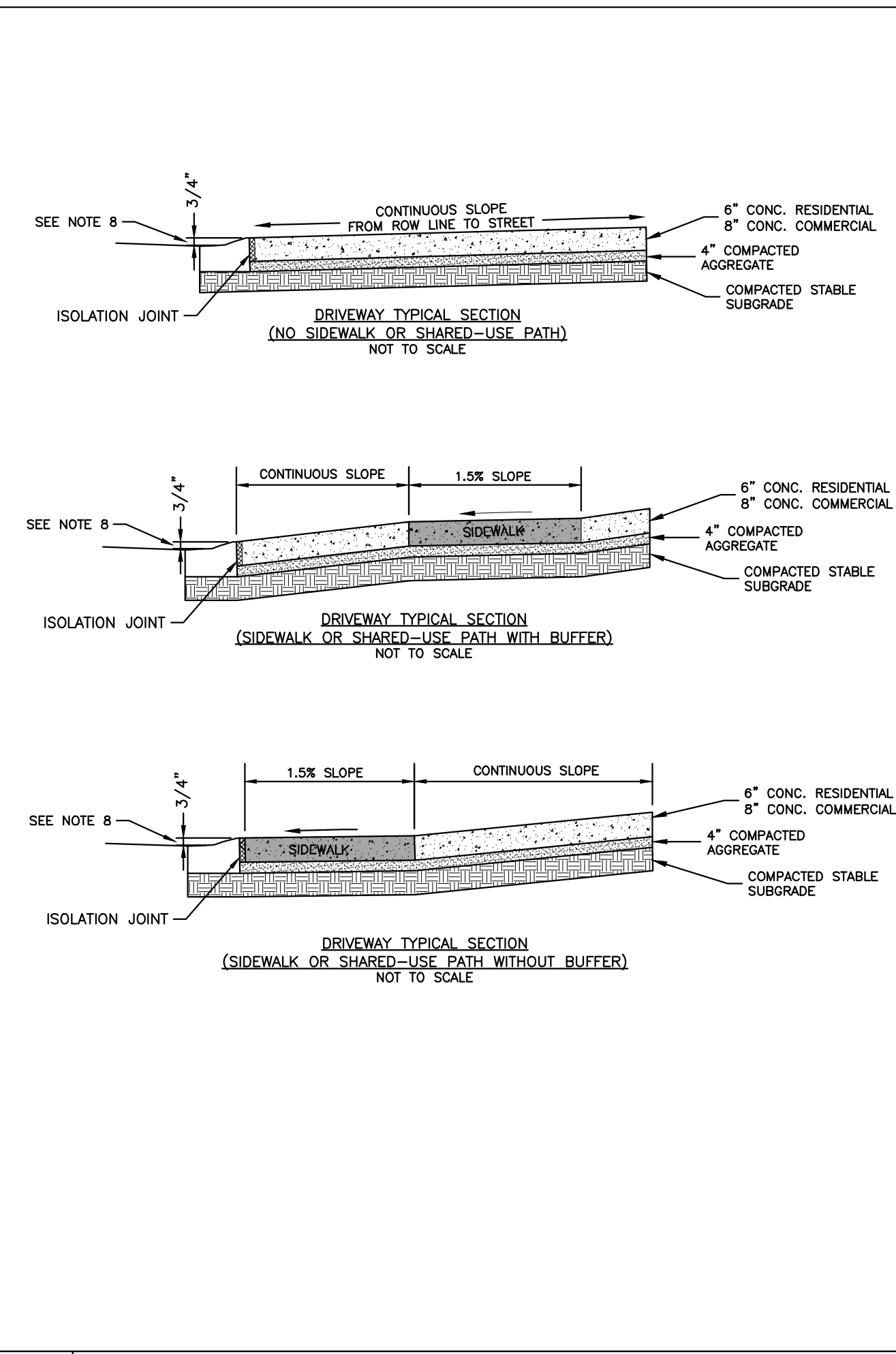
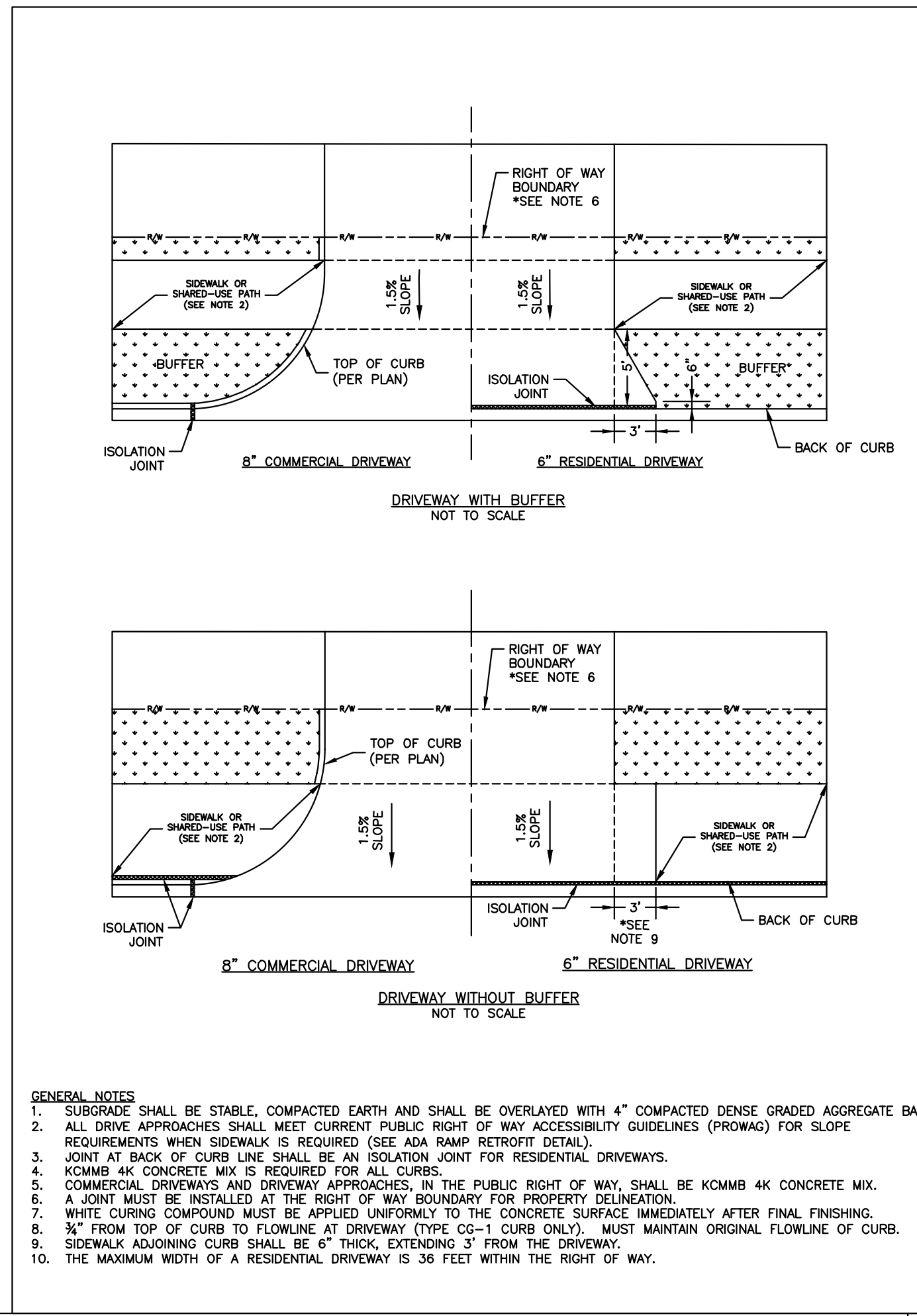
Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

Date: 9/22/17  
Job Number: 170534-010  
Drawn By: ELM  
Checked By: MDM

Revisions	Number	Date	Description
1	10/30/17		CITY COMMENTS
2	11/28/17		CITY COMMENTS

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

FLARED END SECTION SUPPORT DETAIL



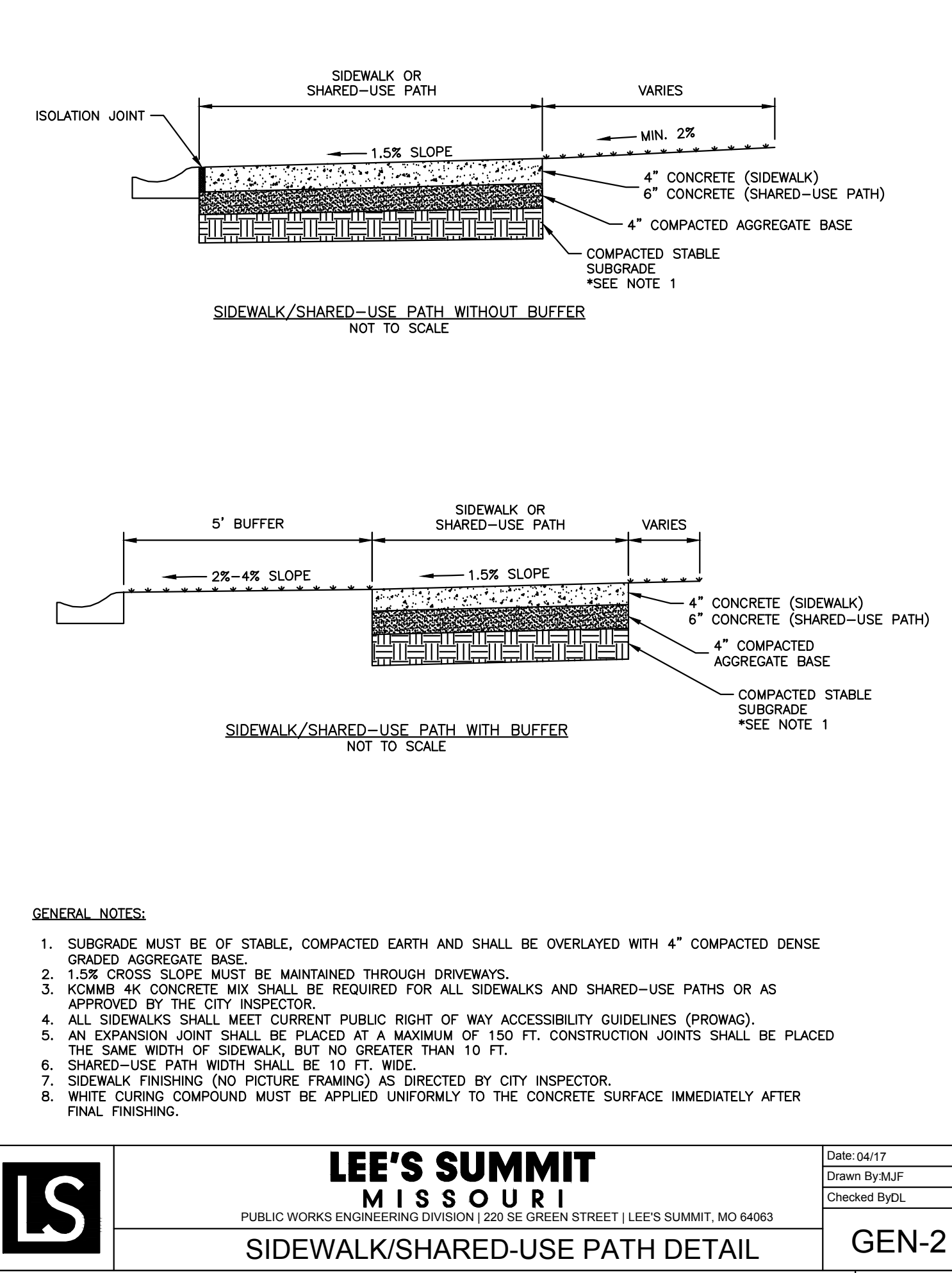
**GENERAL NOTES:**

- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL).
- JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR PROPERTY DELINEATION.
- KCMBB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
- COMMERCIAL DRIVEWAYS AND DRIVEWAY APPROACHES, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMBB 4K CONCRETE MIX.
- A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
- 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
- SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
- THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

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

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

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



**GENERAL NOTES:**

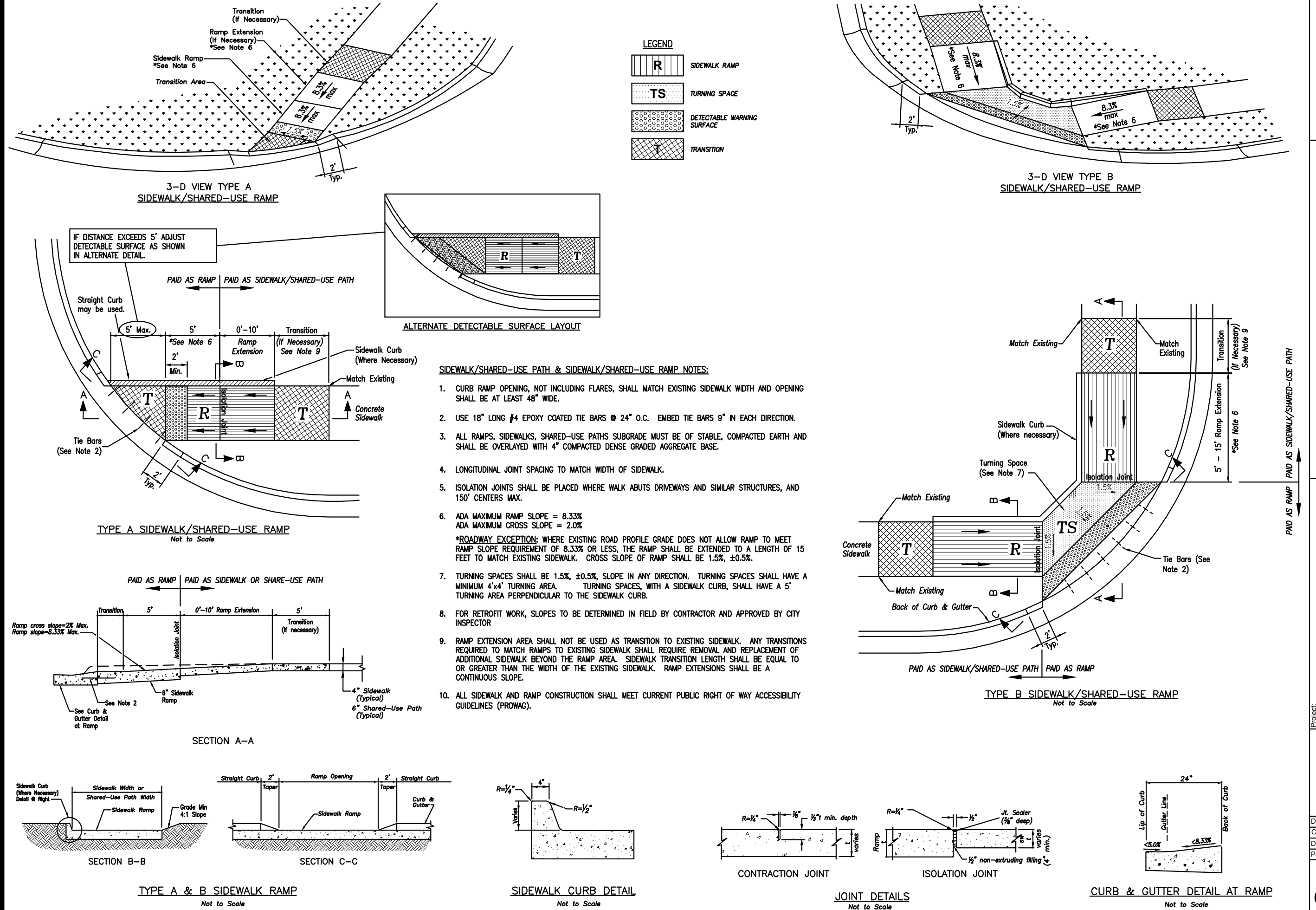
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
- KCMBB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS AND SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
- ALL SIDEWALKS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- AN EXPANSION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK, BUT NO GREATER THAN 10 FT.
- SHARED-USE PATH WIDTH SHALL BE 10 FT. WIDE.
- SIDEWALK FINISHING (NO PICTURE FRAMING) AS DIRECTED BY CITY INSPECTOR.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

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

GEN-1

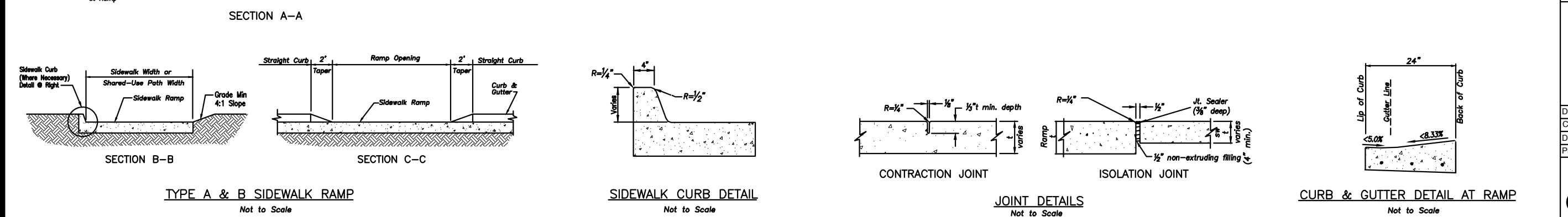
Date: 04/17  
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**GEN-2**



**SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:**

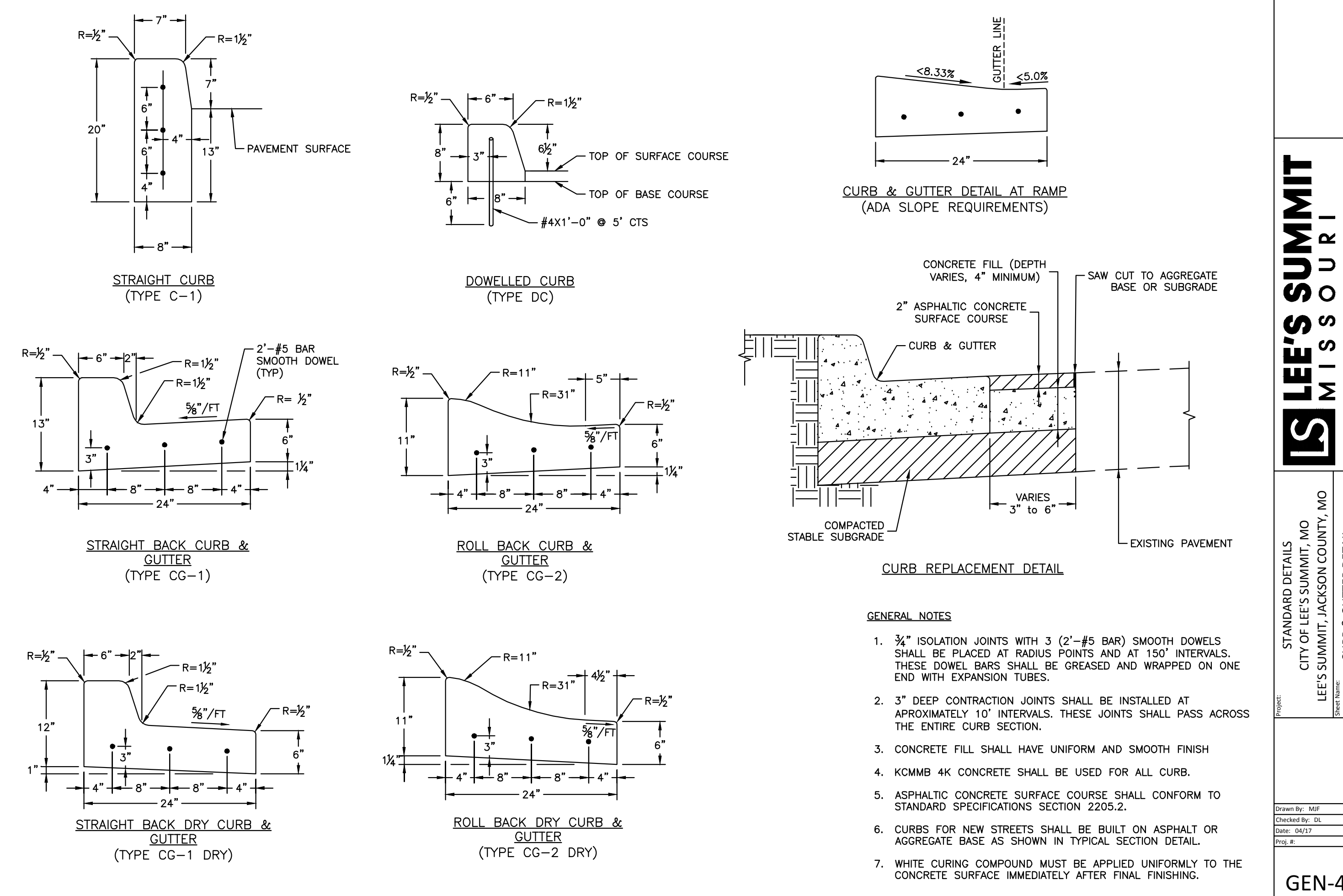
- CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
- USE 1/8" LONG #4 EPOXY COATED BARS @ 24" O.C. EMBED THE BARS 9" IN EACH DIRECTION.
- ALL RAMP, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE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



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

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

Drawn By: MJF  
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Proj. #



**GENERAL NOTES:**

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

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

STANDARD DETAILS  
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LEE'S SUMMIT, JACKSON COUNTY, MO

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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

Date: 9/22/17  
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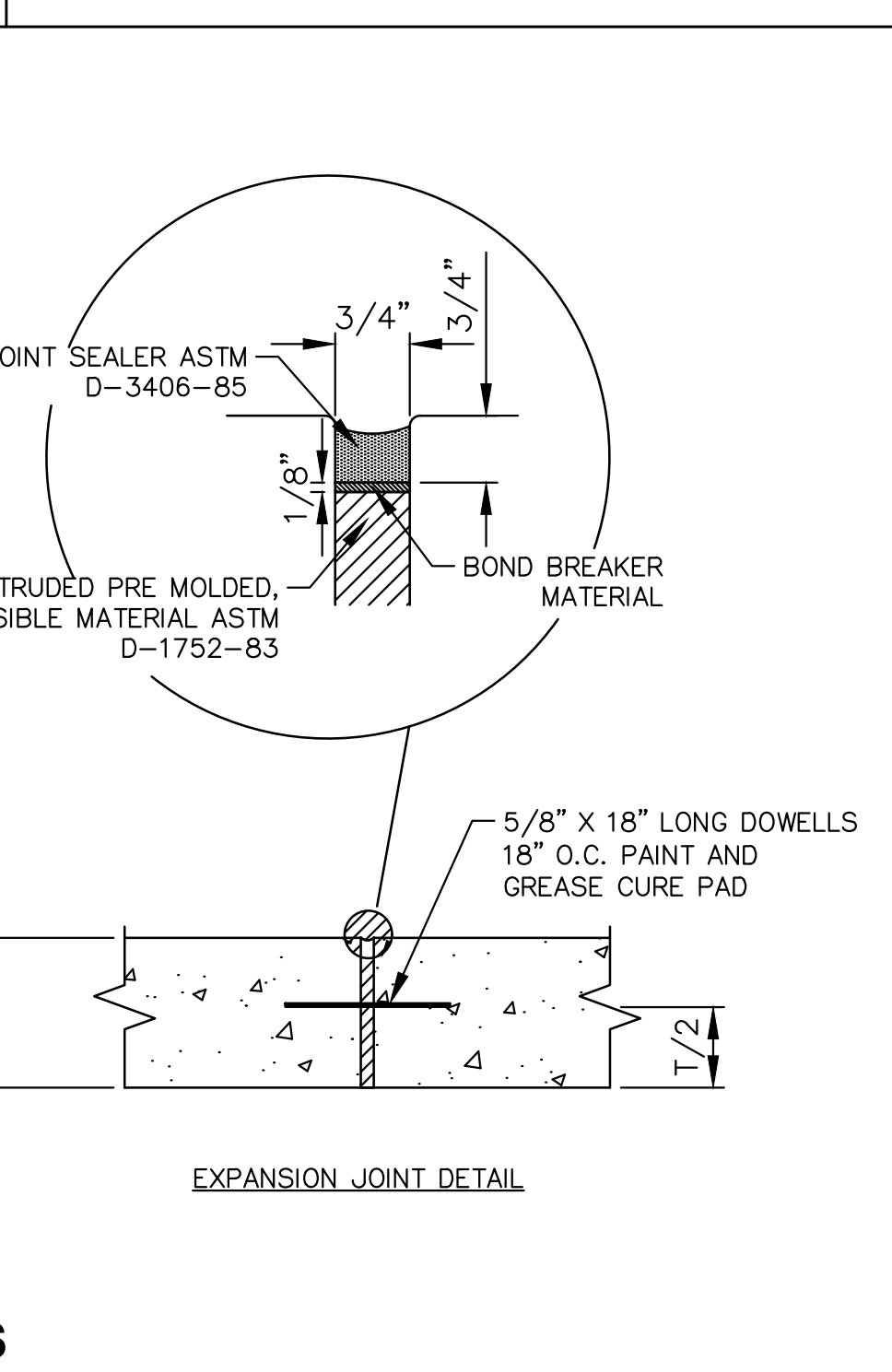
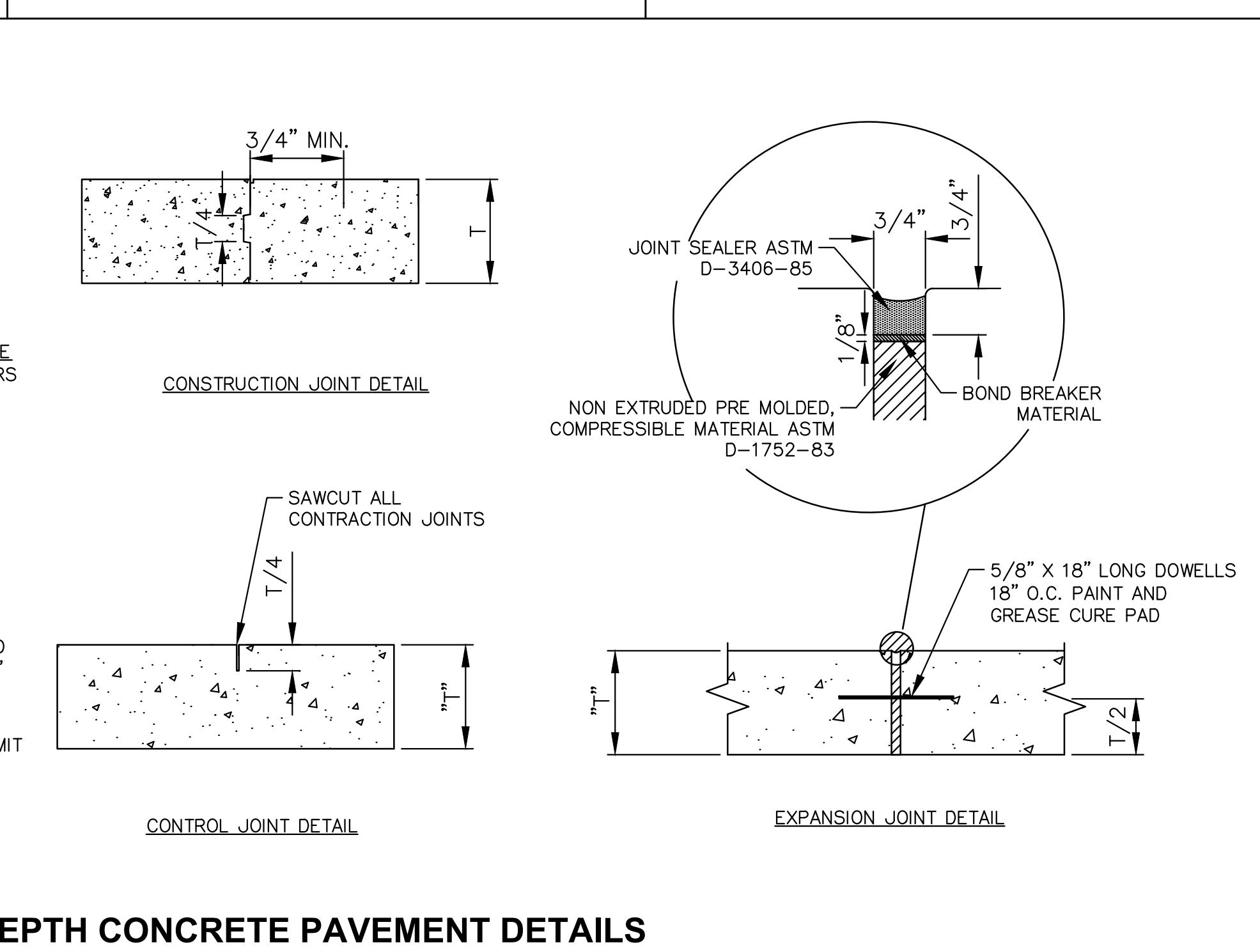
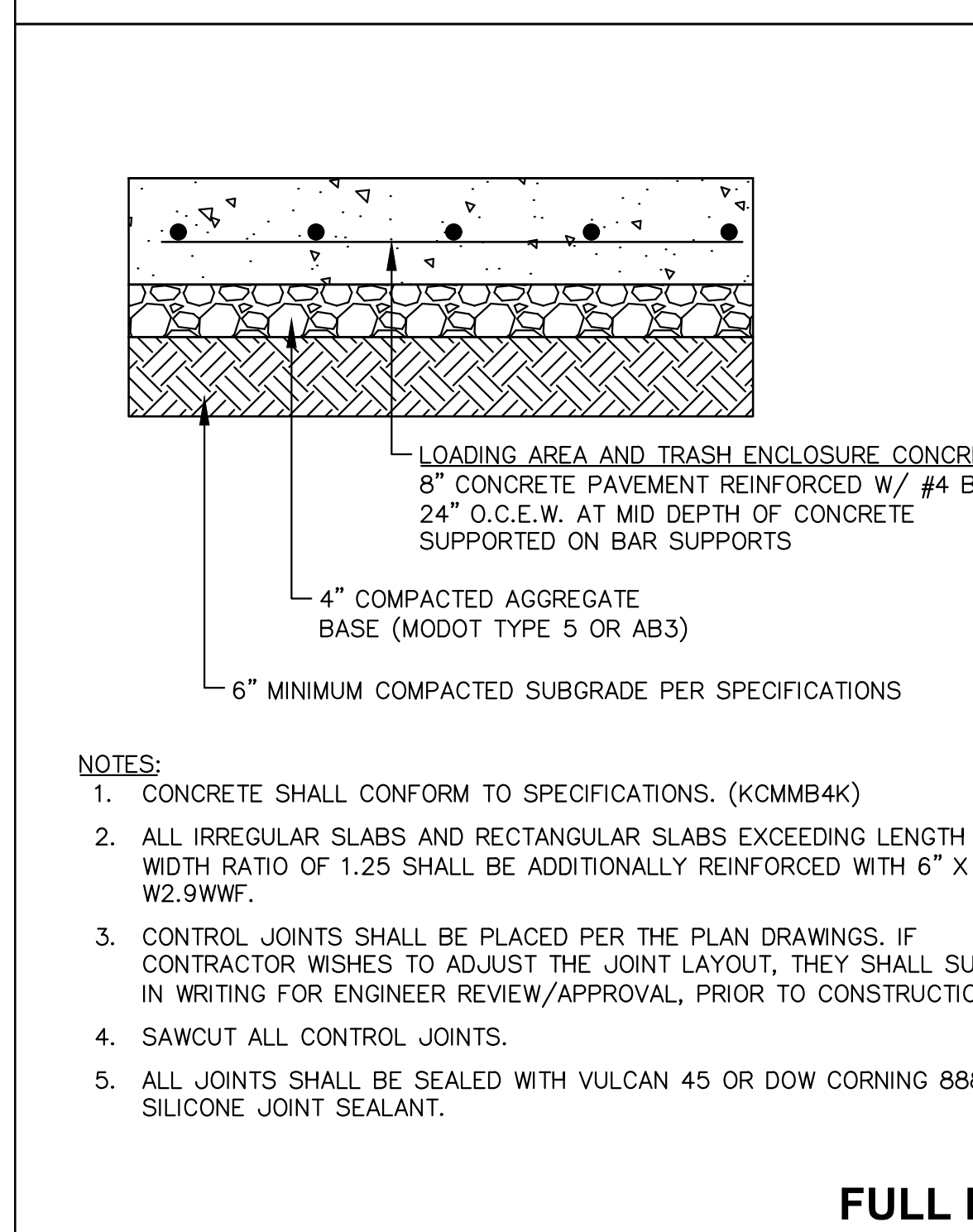
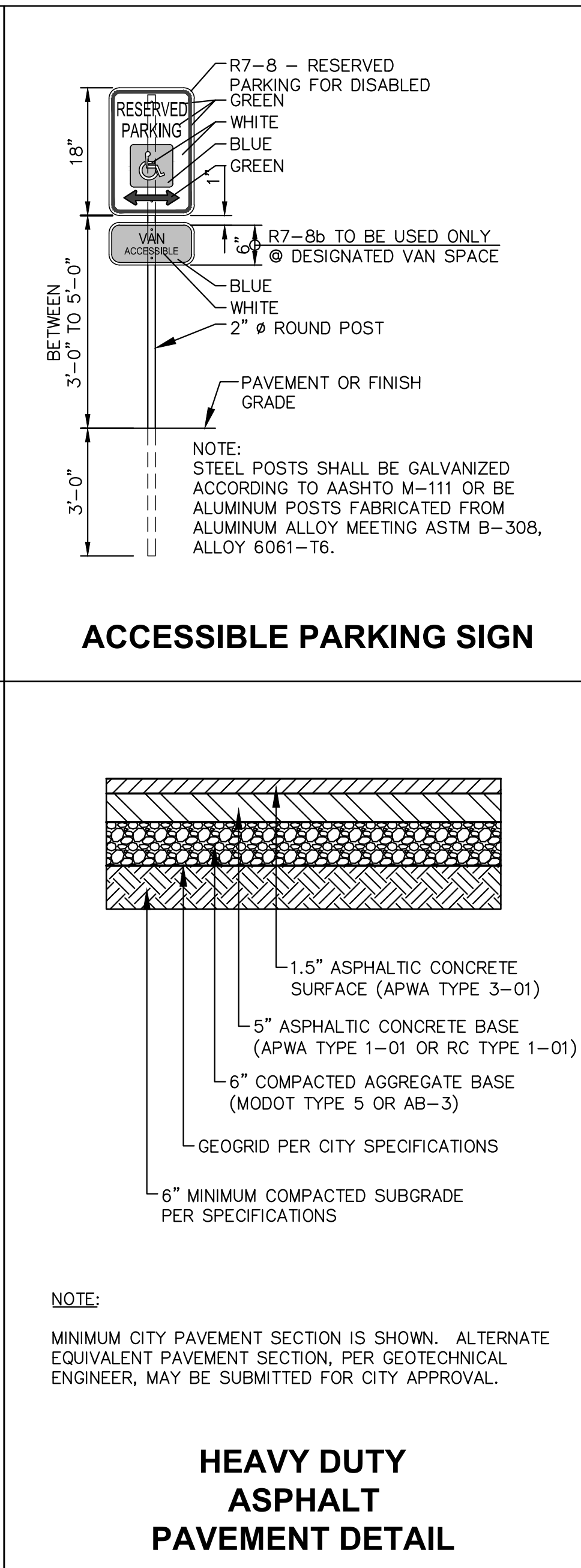
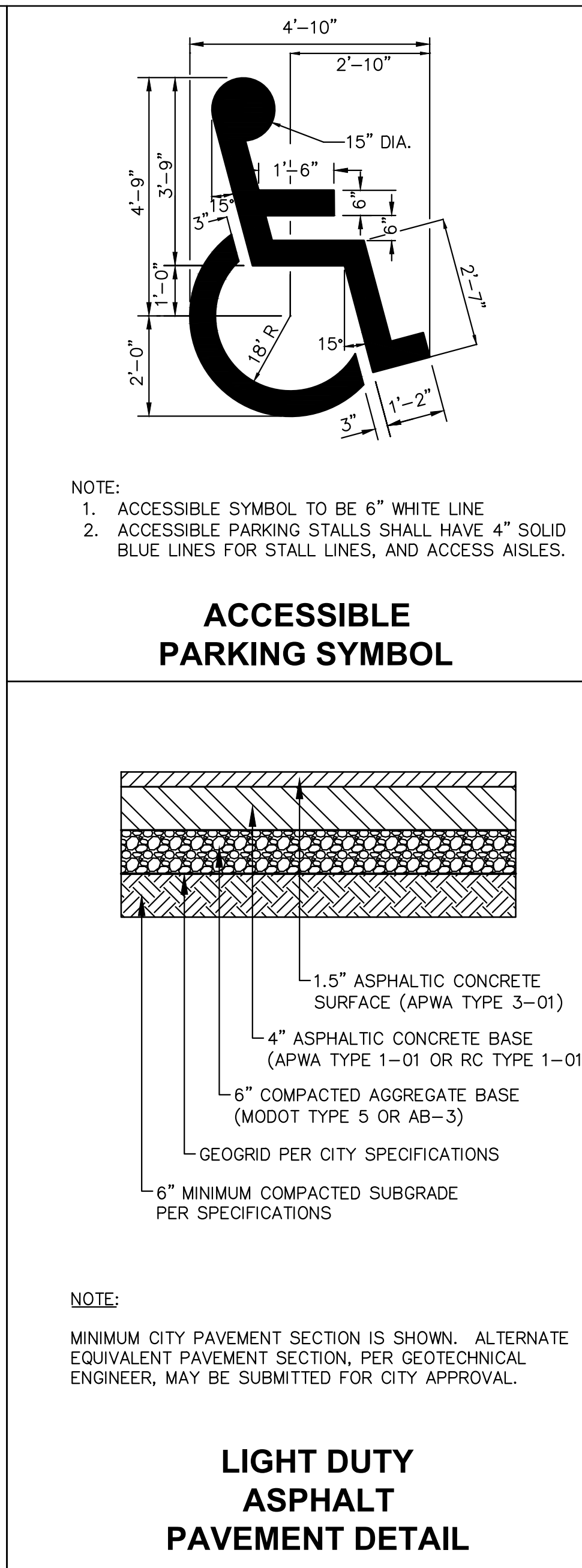
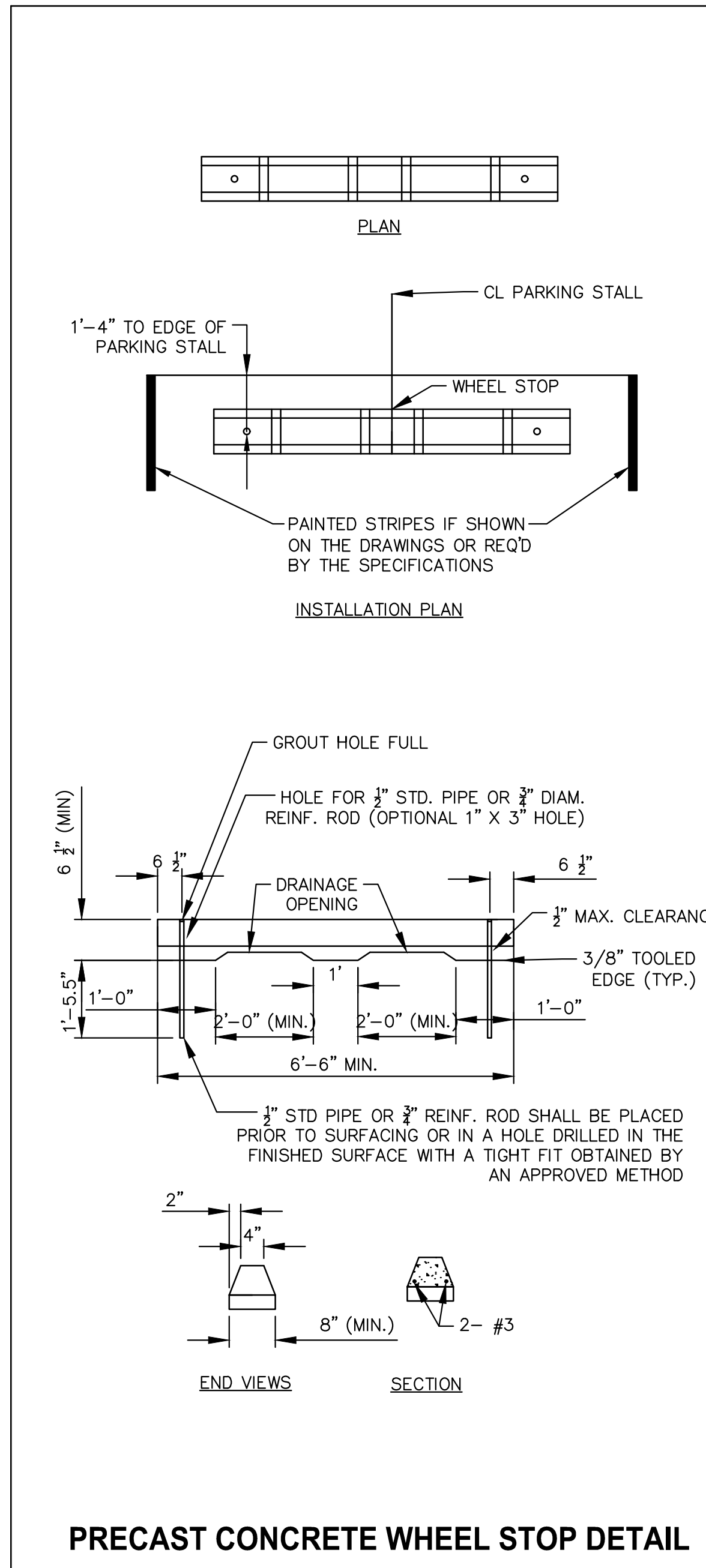
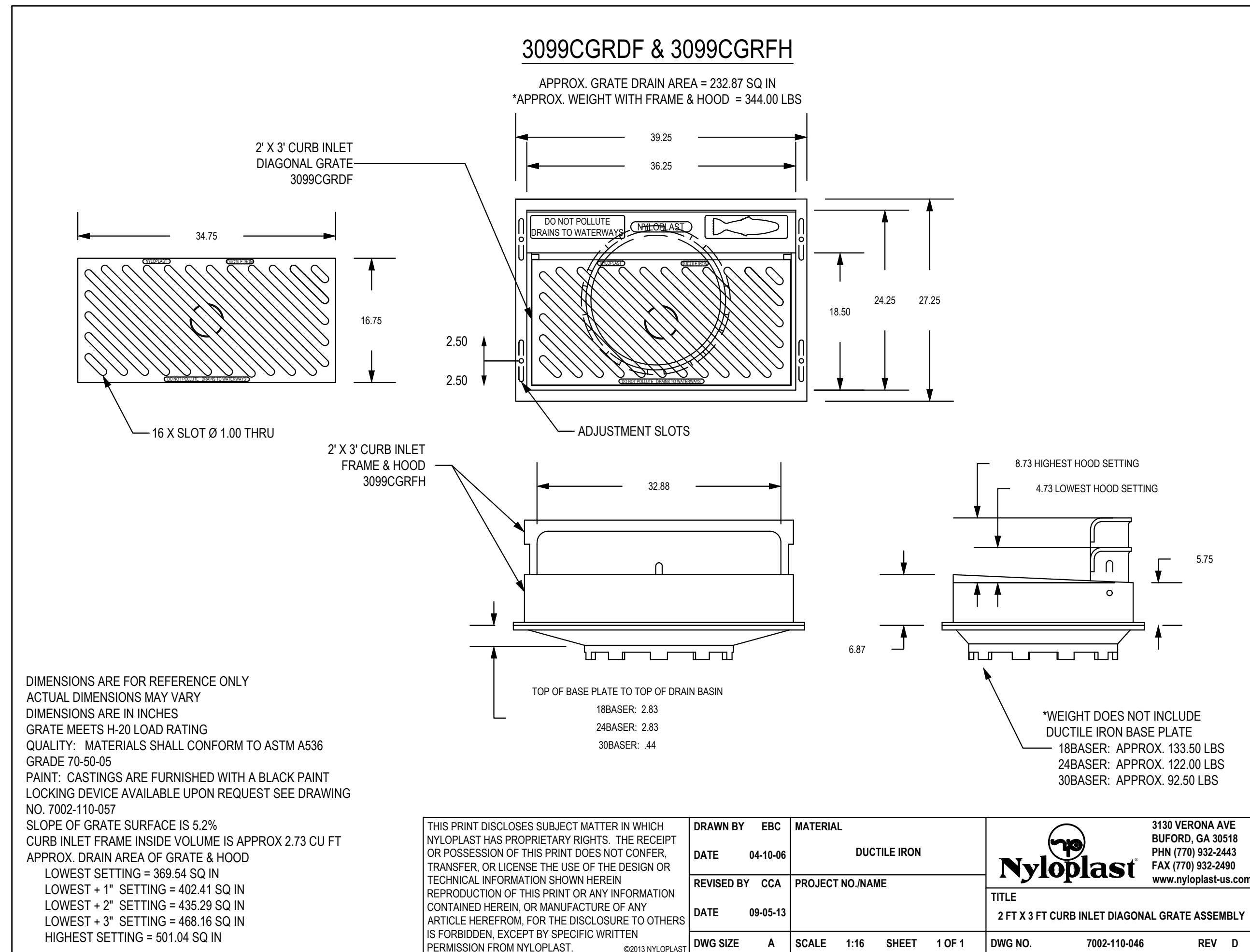
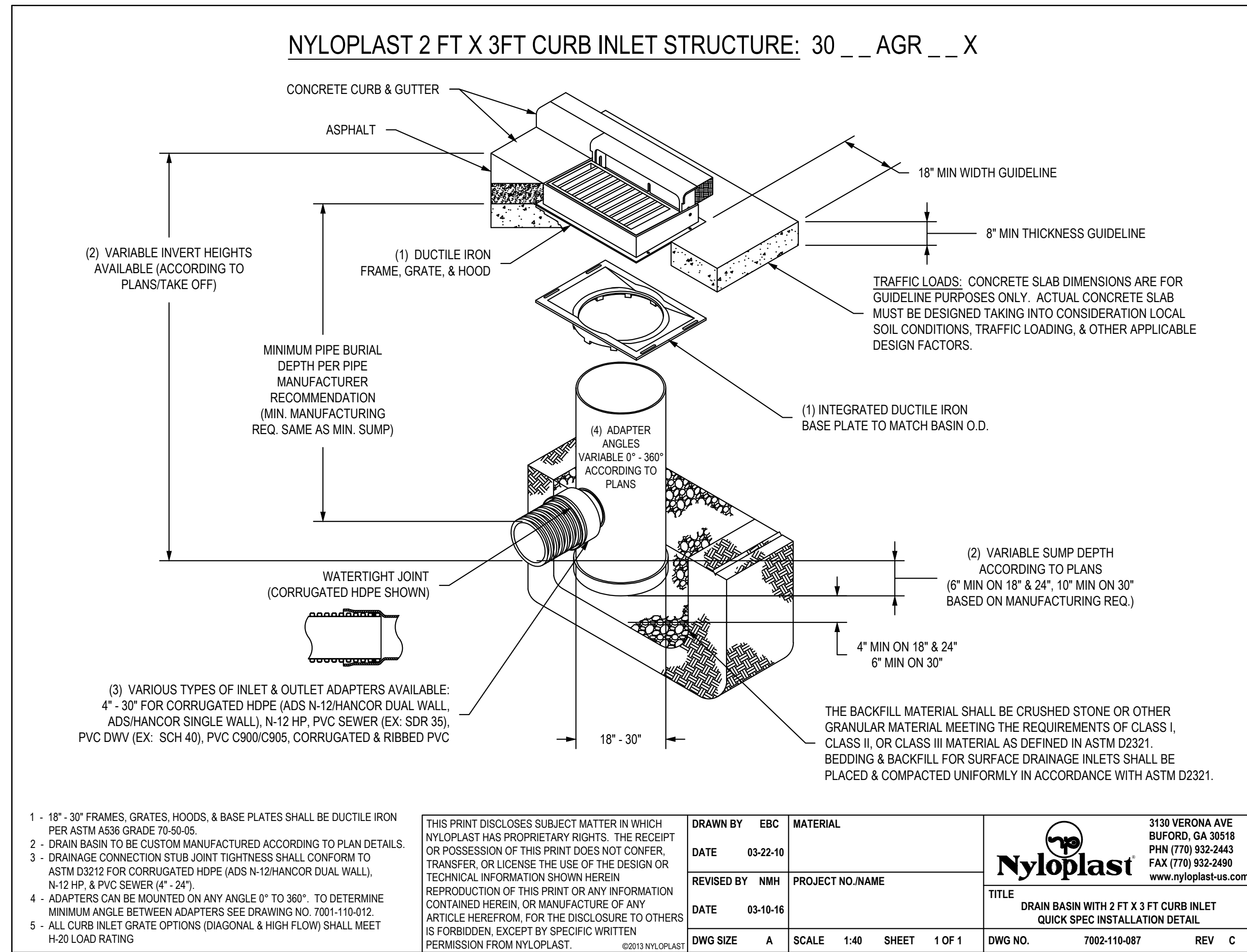
Revisions

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STANDARD DETAILS  
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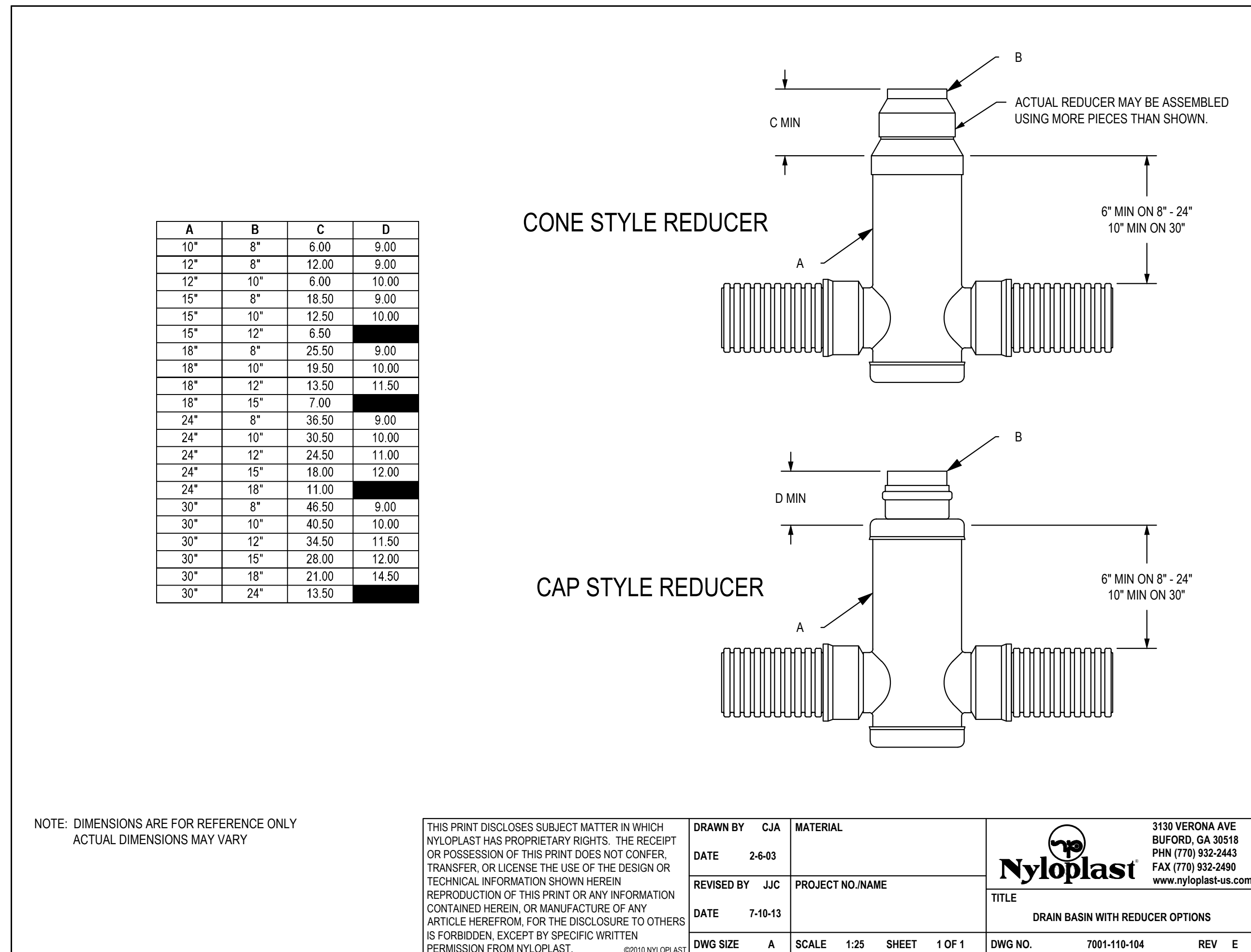
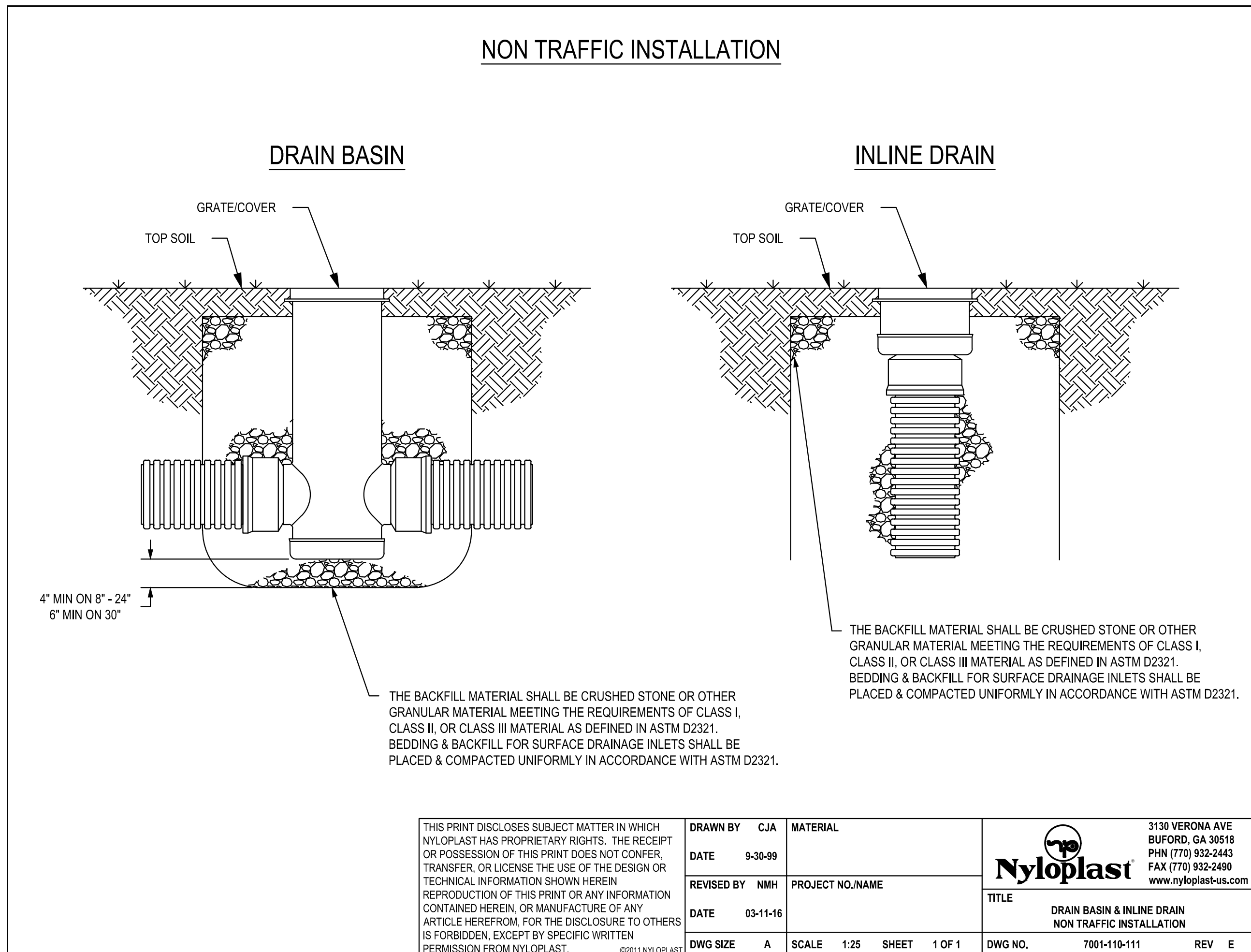
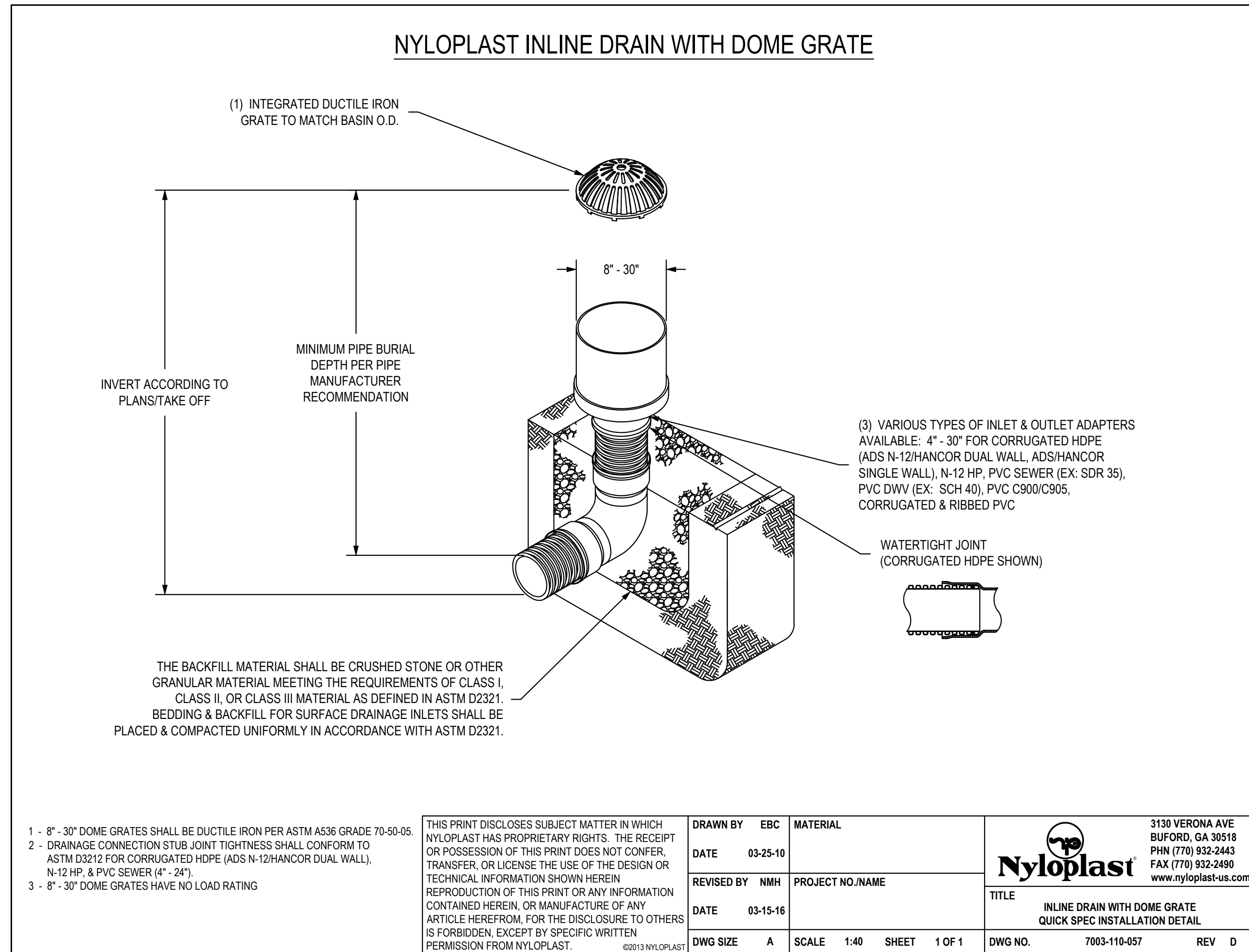
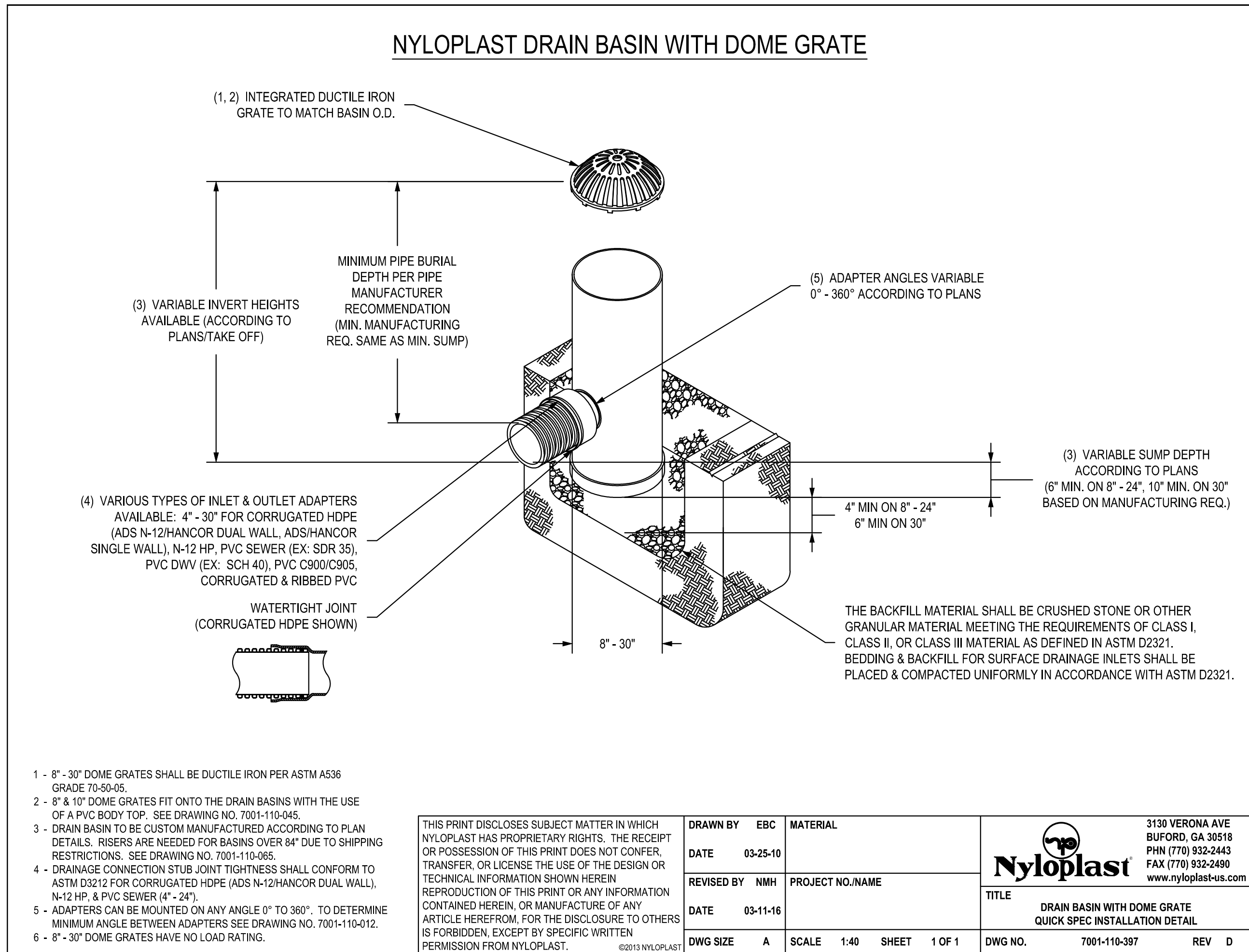
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Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
 Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
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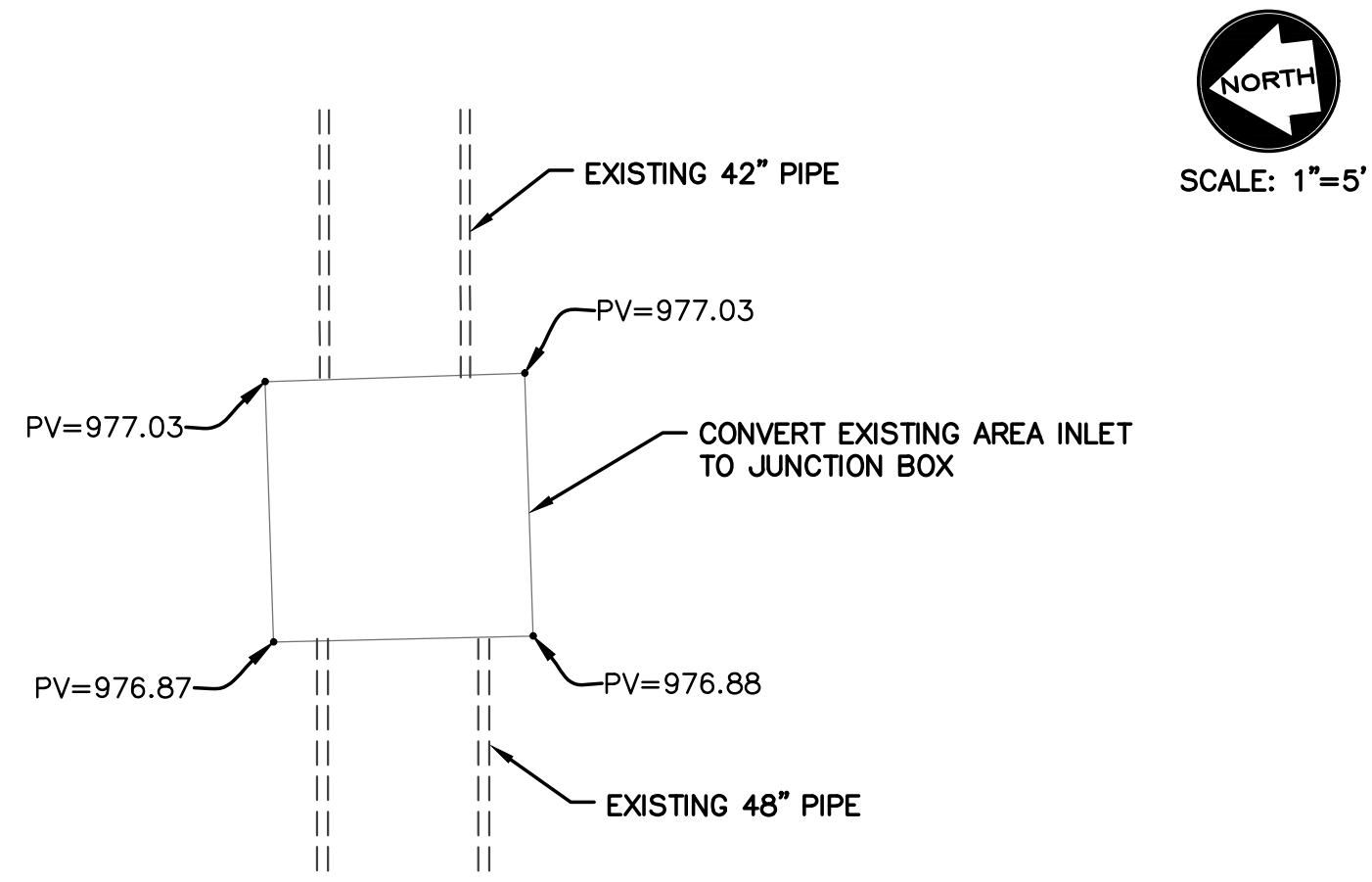
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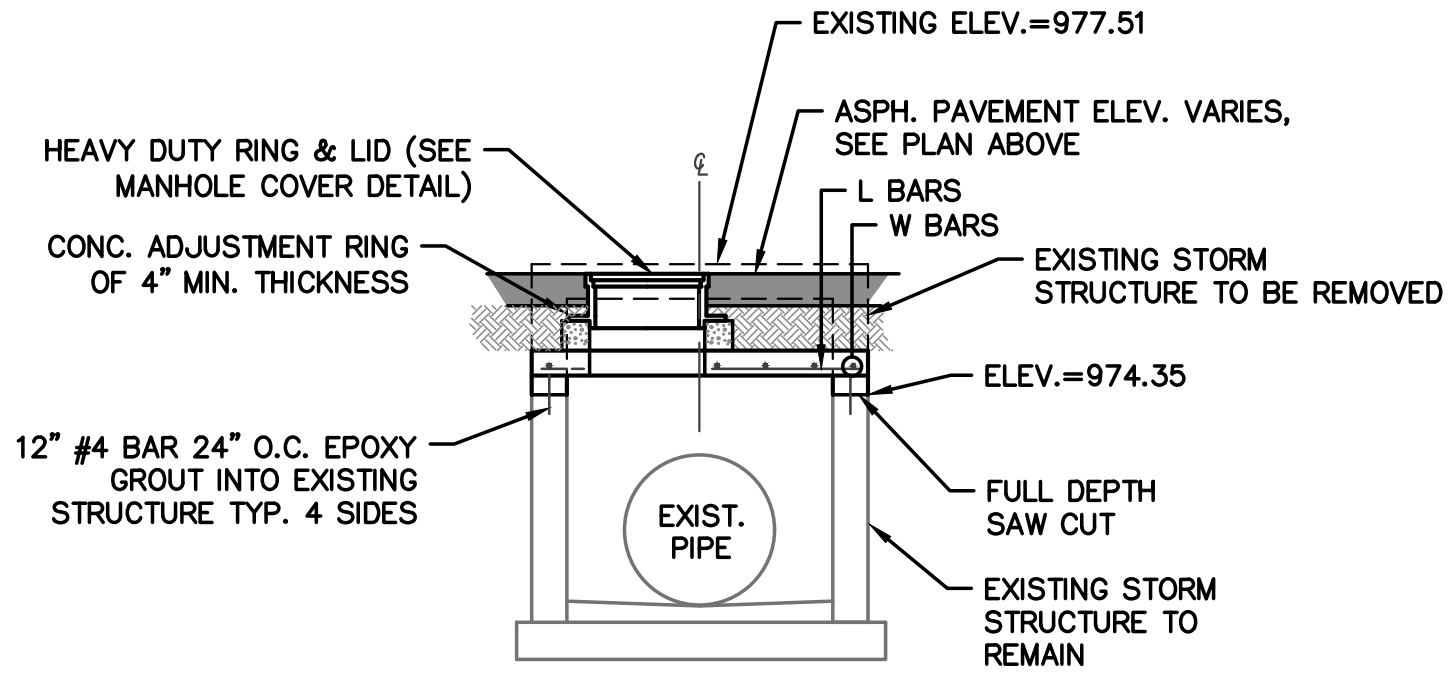
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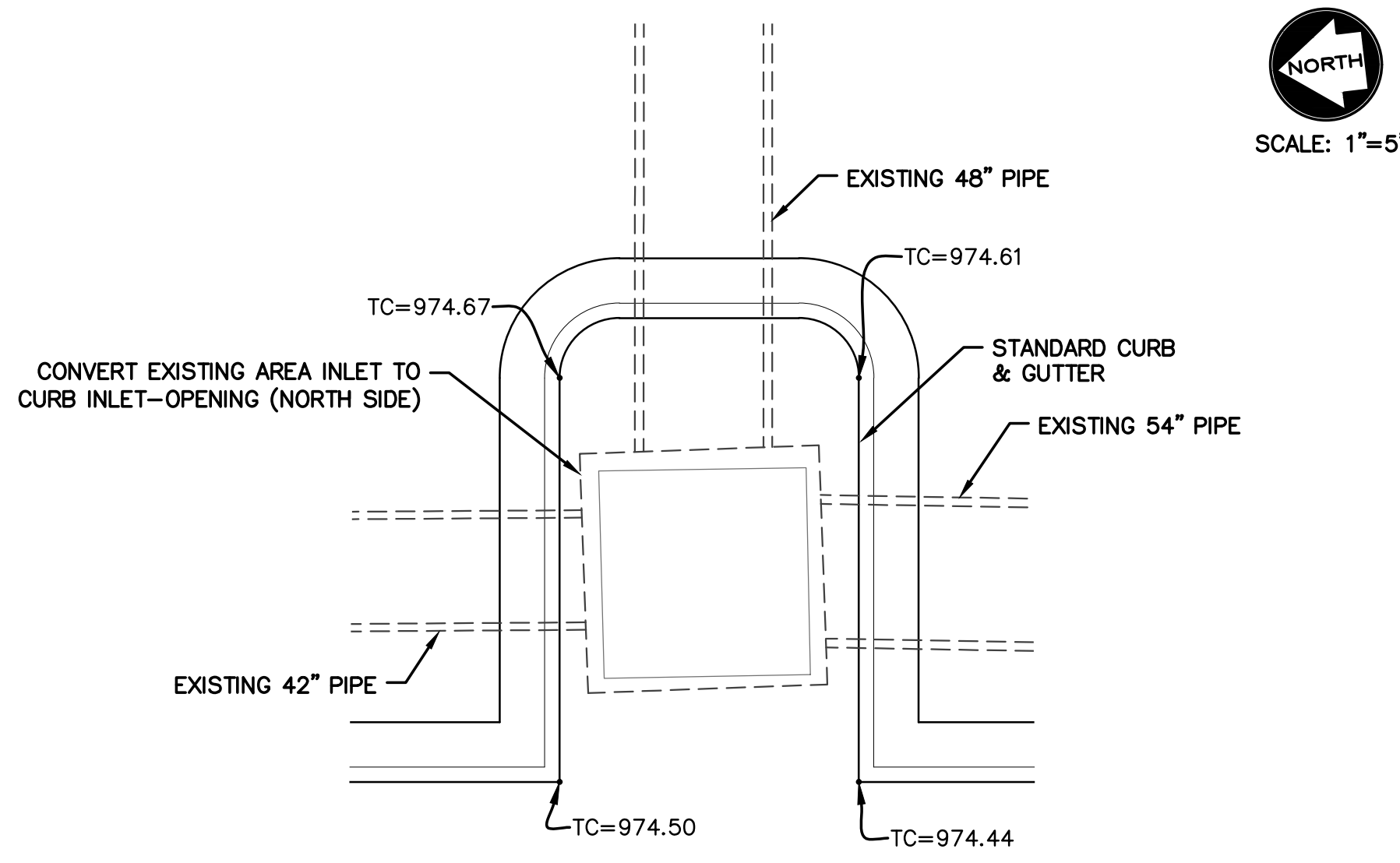
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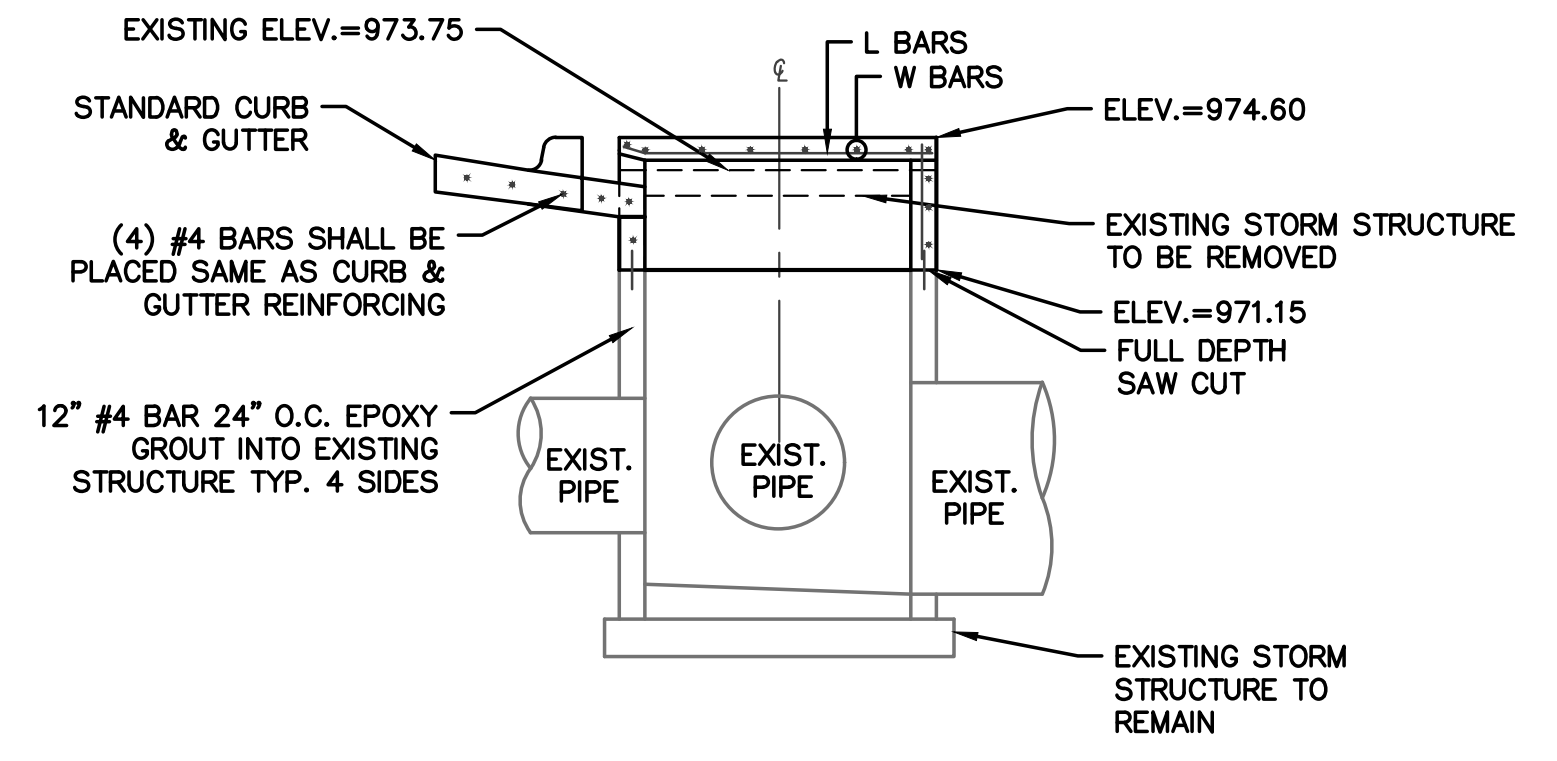
REINFORCING

BARS	SIZE	SPACING (IN.)
L	5	6
W	5	6

**DETAIL 1 (EX3A)**  
**AREA INLET TO JUNCTION BOX DETAIL**



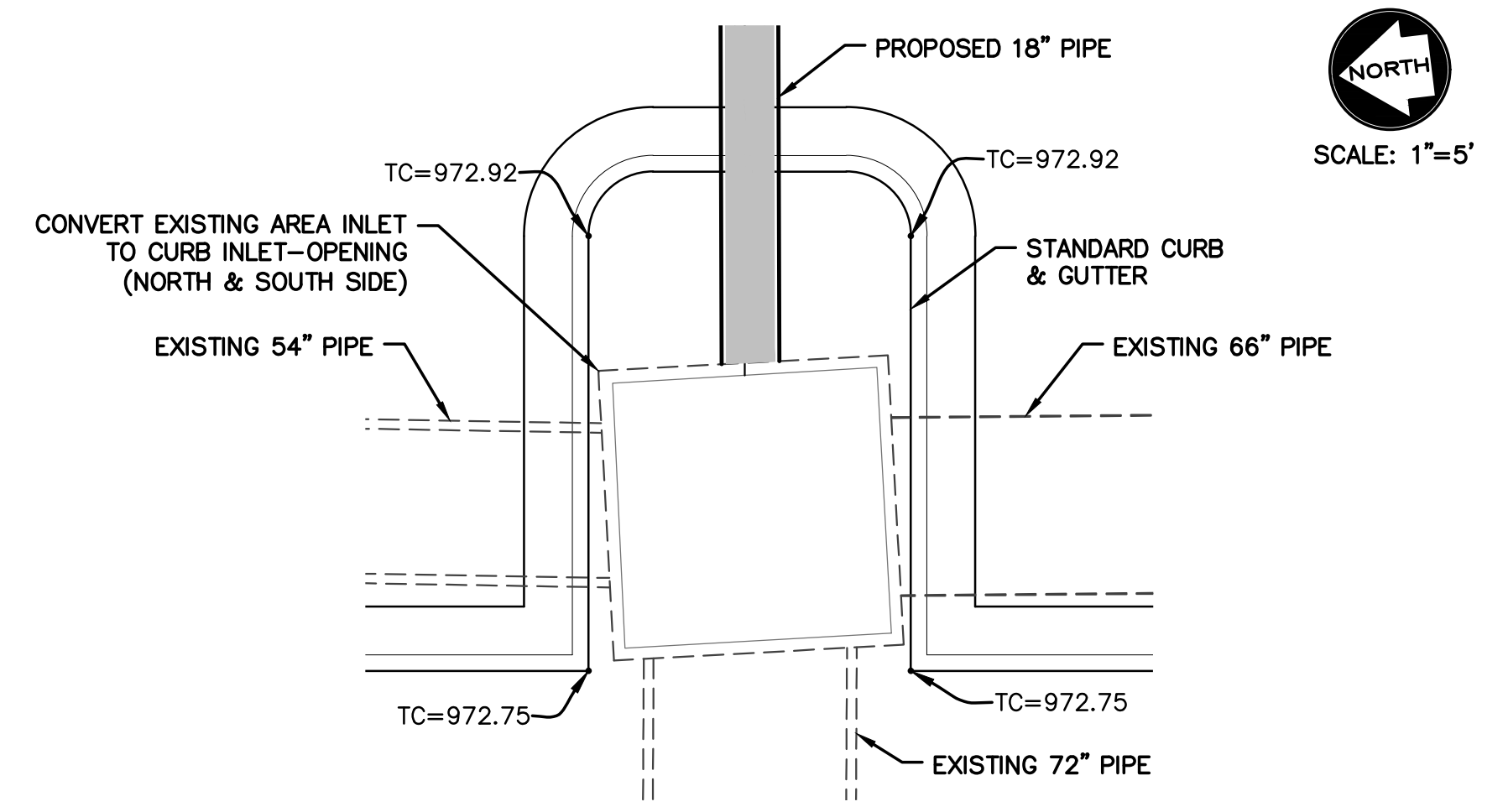
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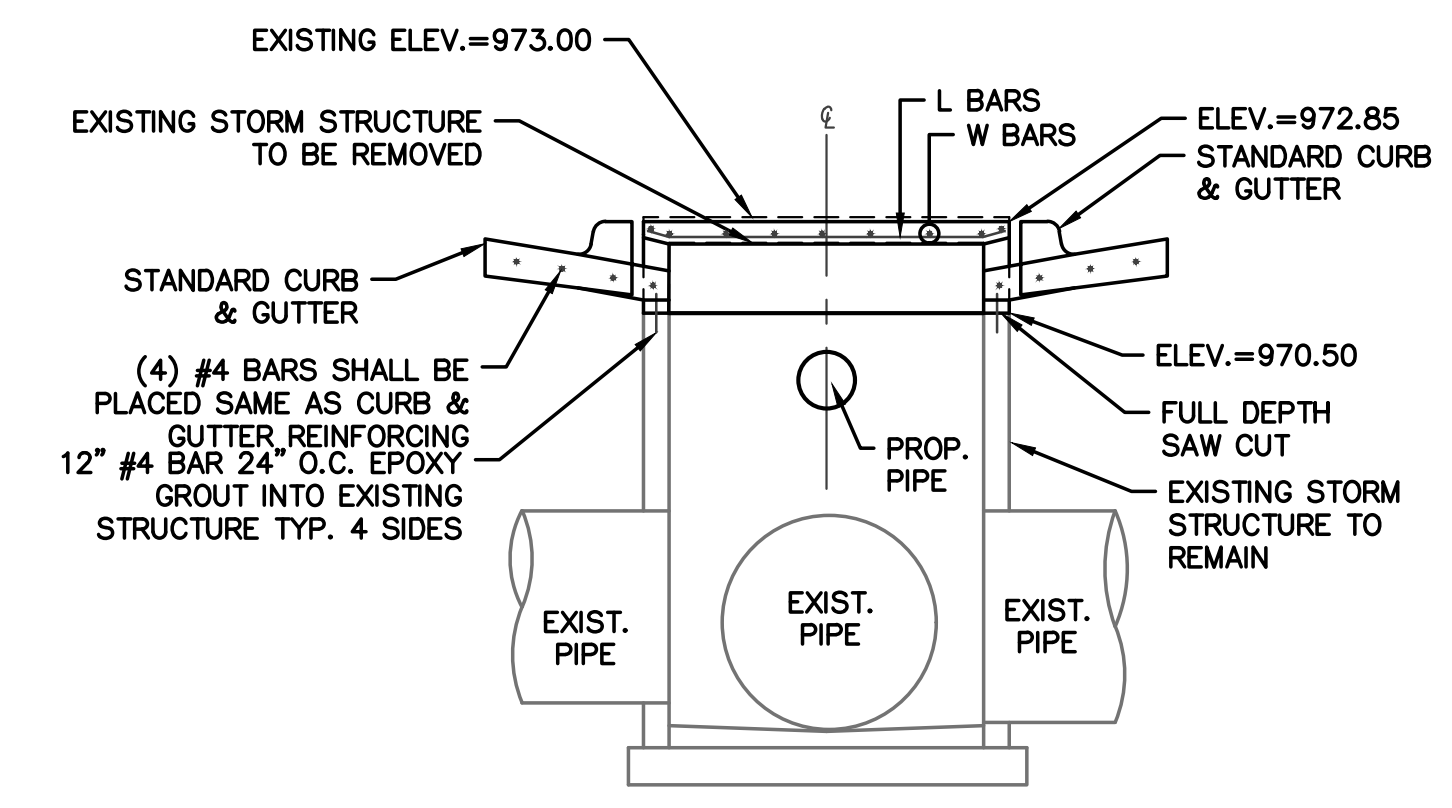
REINFORCING

BARS	SIZE	SPACING (IN.)
L	5	6
W	5	6

**DETAIL 2 (EX3)**  
**AREA INLET TO CURB INLET DETAIL**



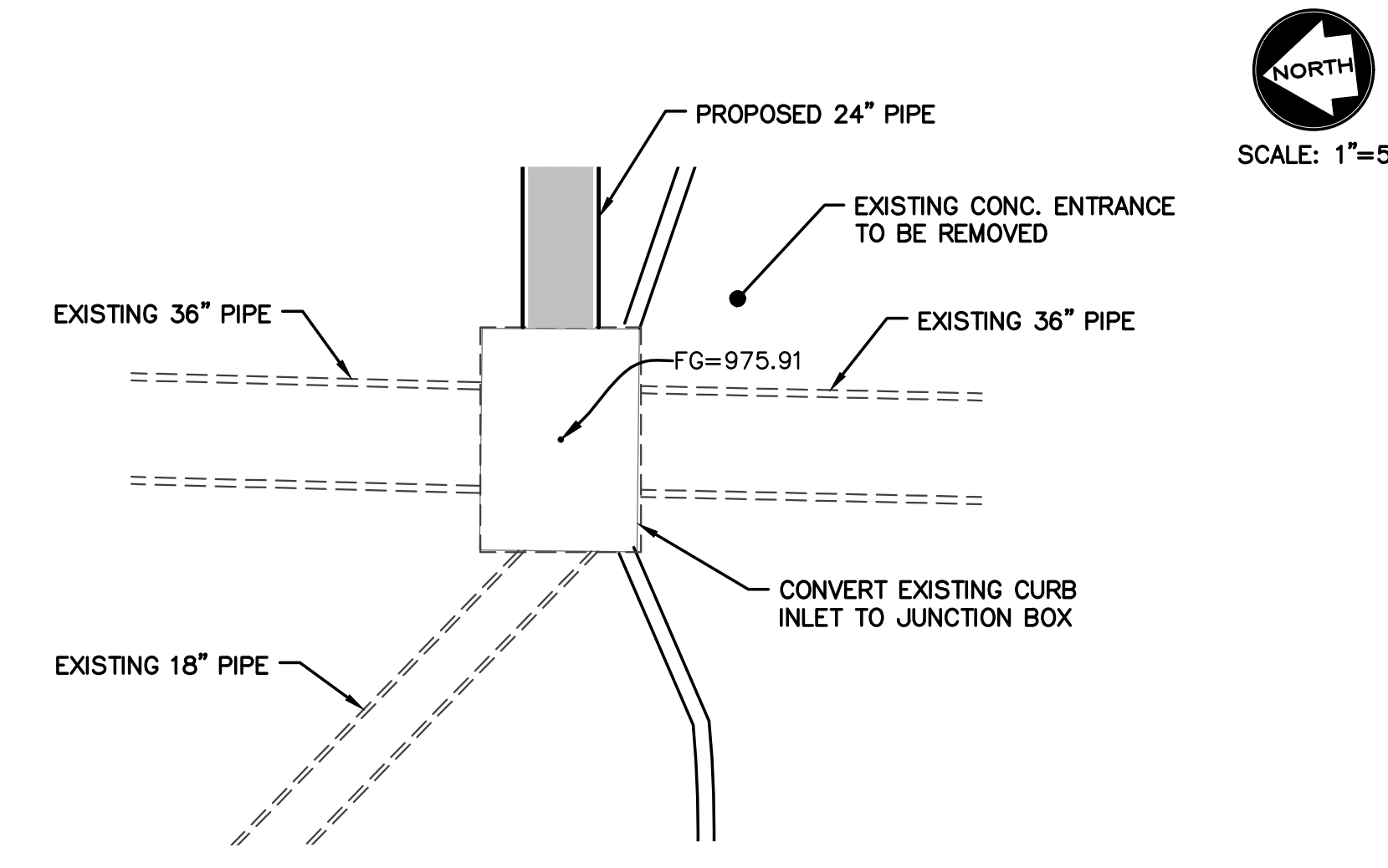
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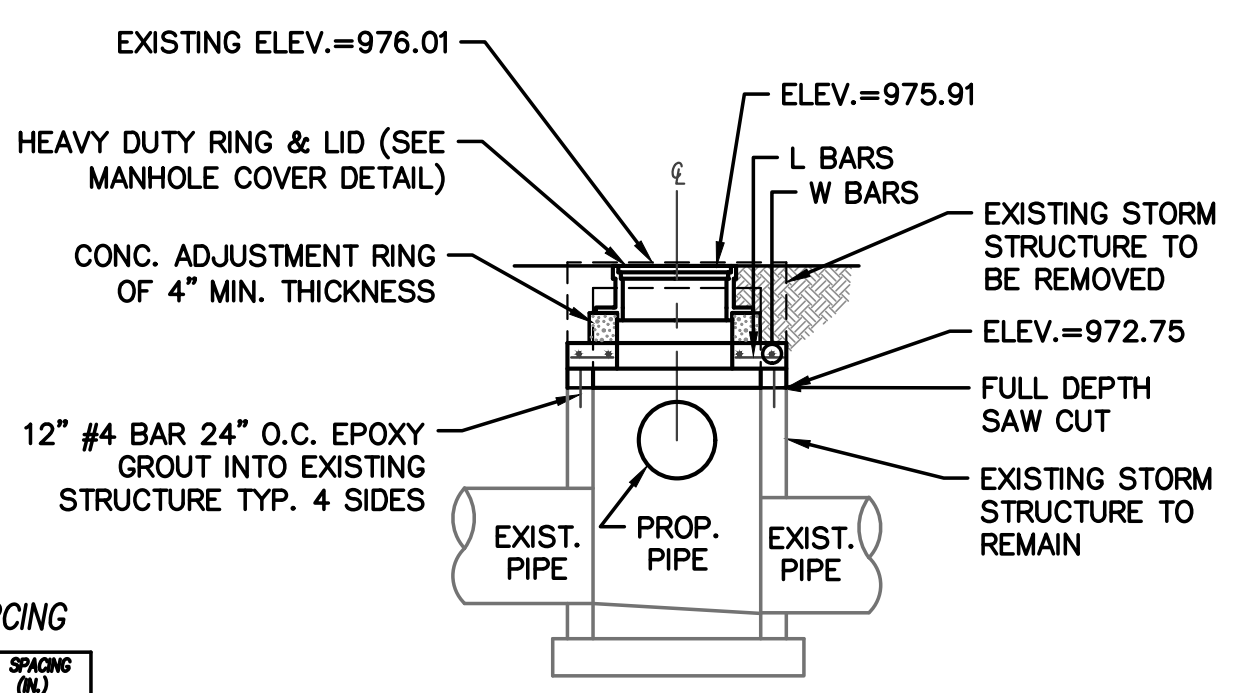
REINFORCING

BARS	SIZE	SPACING (IN.)
L	5	6
W	5	6

**DETAIL 3 (EX2)**  
**AREA INLET TO CURB INLET DETAIL**



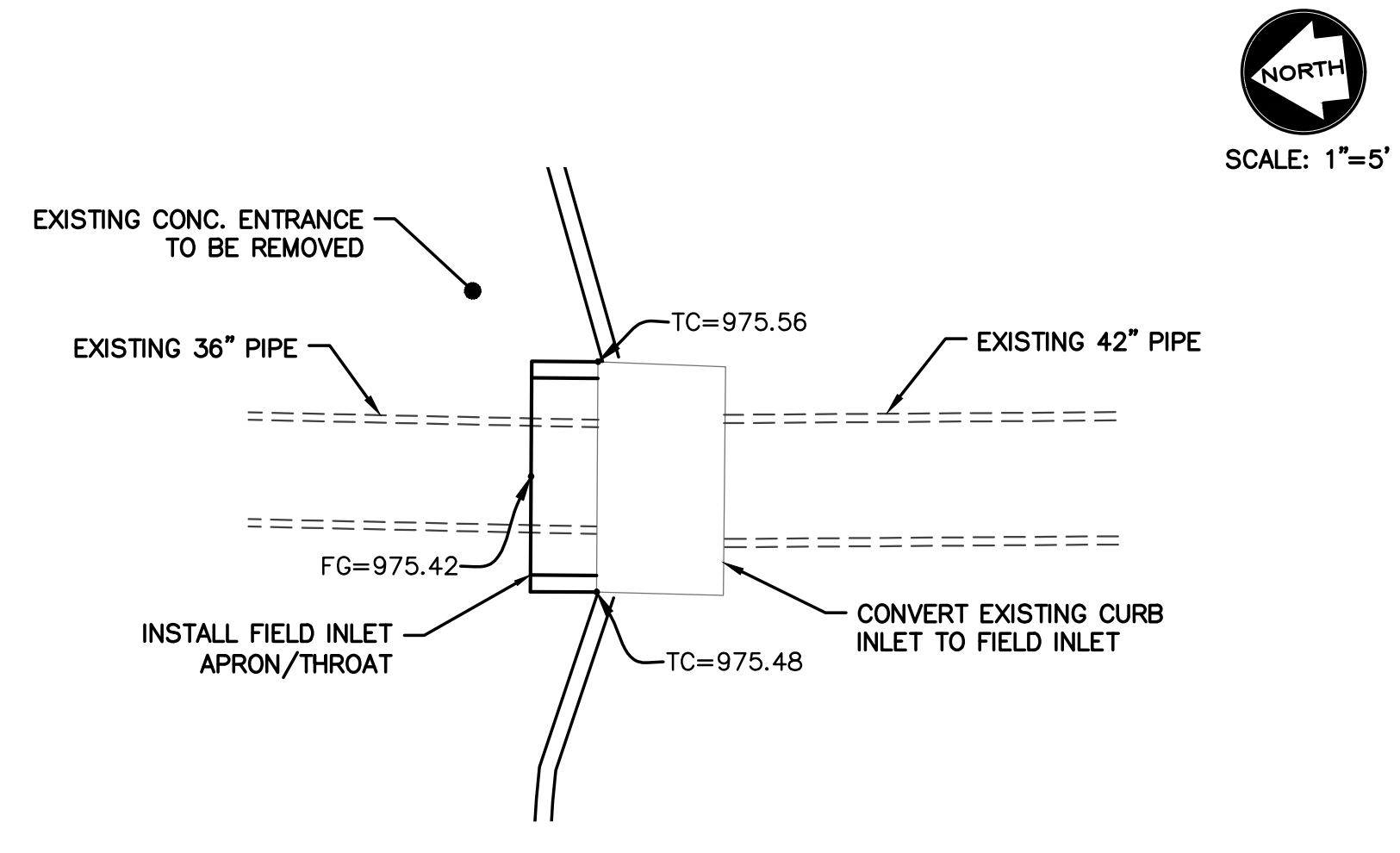
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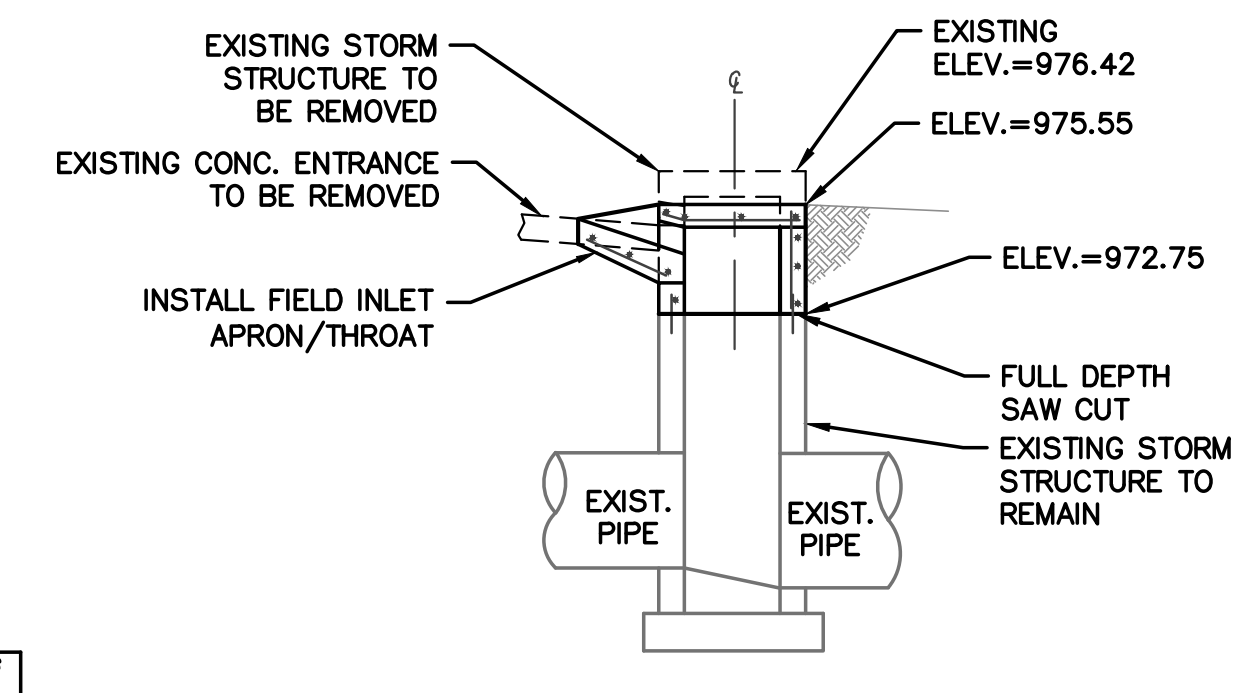
REINFORCING

BARS	SIZE	SPACING (IN.)
L	5	6
W	5	6

**DETAIL 4 (EX1)**  
**CURB INLET TO JUNCTION BOX DETAIL**



NORTH  
SCALE: 1"=5'



REINFORCING

BARS	SIZE	SPACING (IN.)
L	5	6
W	5	6

**DETAIL 5 (EX4)**  
**CURB INLET TO FIELD INLET DETAIL**



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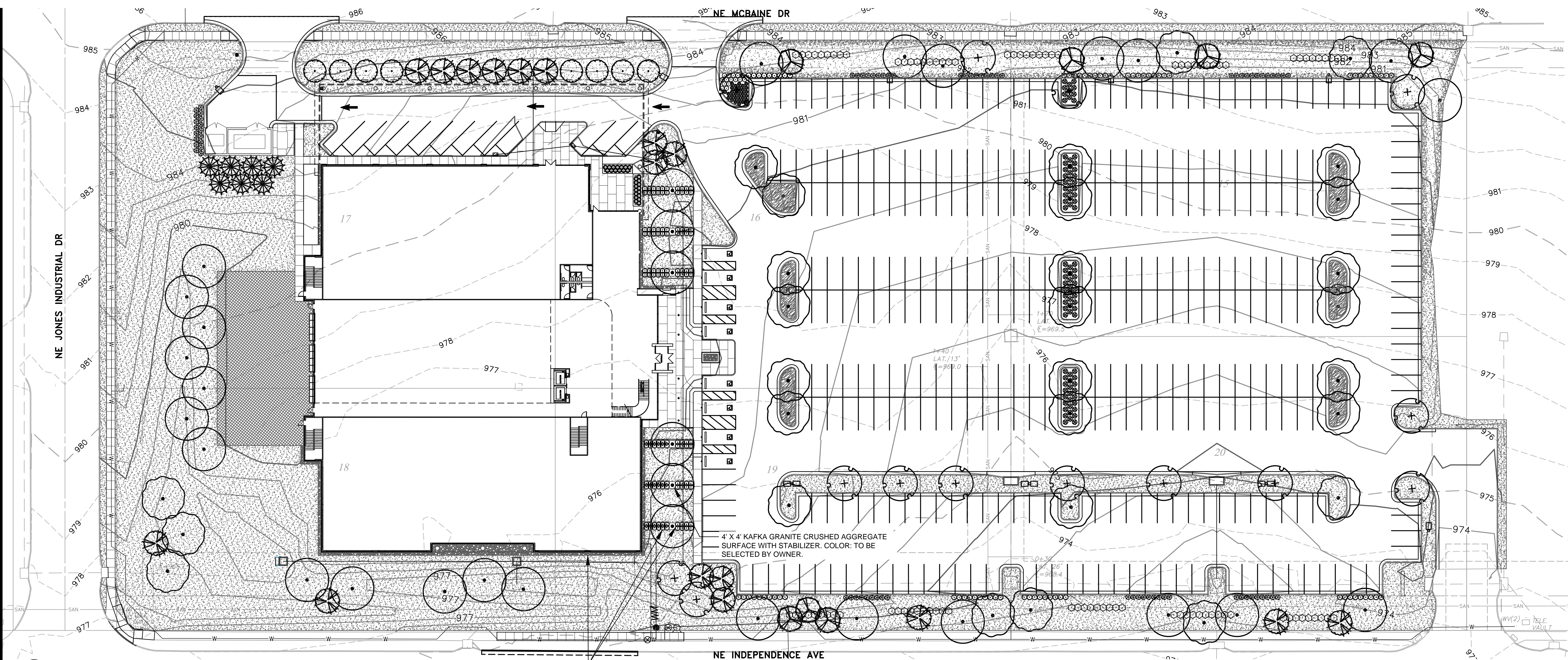
Proposed New Core & Shell Building For:  
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**1 OVERALL LANDSCAPE PLAN**  
1" = 30'-0"

PERMALOC 3/16" X 5.5" CLEANLINE EDGING, TYP. AT ALL ROCK LANDSCAPE BEDS ADJACENT TO TURF, ROCK AREAS, OR GRANITE SCREENWINGS. COLOR: BLACK DURAFLEX

- LANDSCAPE PLAN NOTES:**
- EXISTING UNDERGROUND (U/G), OVERHEAD (O.H.) UTILITIES AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTORS TO VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE STARTING ANY WORK.
  - PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCED NOTICE TO ALL THOSE COMPANIES/UTILITIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION SITE.
  - CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
  - CONTRACTOR SHALL STAKE/LAYOUT PLANT LOCATIONS IN THE FIELD & HAVE APPROVAL BY LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH INSTALLATION.
  - NO SUBSTITUTIONS (INCL. CULTIVARS) SHALL BE ACCEPTED WITHOUT WRITTEN APPROVAL PER SPECIFICATIONS. PROPOSED PLANT SUBSTITUTIONS REQUIRE APPROVAL OF THE LANDSCAPE ARCHITECT, CITY OF OVERLAND PARK, KS & THE OWNER'S REPRESENTATIVE.
  - ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE & INFESTATION—TRUE TO TYPE, VARIETY, SIZE SPECIFIED, & FORM PER ANSA STANDARDS.
  - ALL PROPOSED TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY. INSTALL ALL PLANTS PER PLANTING DETAILS.
  - ALL TREES & MULCH BEDS (UNLESS ROCK MULCH) SHALL RECEIVE 3" MIN. OF SHREDDED DARK PREMIUM HARDWOOD MULCH, AS DETAILED. ADD PREEN OR SNAPSHOT TO BEDS BEFORE & AFTER MULCHING FROM MARCH 1 TO OCTOBER 1. IF WINTER INSTALLATION, RETURN NEXT SPRING & INSTALL PREEN/SNAPSHOT WITH NEW MULCH.
  - ROCK MULCH SHALL BE 3"-5" BLACK MEXICAN BEACH PEBBLES FROM STRUGGS OUTDOORS OR APPROVED EQUAL. PLACE OVER FIN WEEB BARRIER FABRIC TO 8" IN DEPTH. ELEVATION OF TOP OF ROCK SHALL BE 1/4" BELOW ANY ADJACENT PAVEMENT.
  - TREE TIES SHALL BE DEWITT 20" STRAPS FOR TREE STAKING. USE 10 GAUGE ELECTRIC WIRE. TREES AND STAKES SHALL BE STRAIGHT, FLAME AND TALL. TREE STAKES TO BE REMOVED WINTER OF YEAR 2 AFTER INSTALLATION.
  - CONTRACTOR SHALL THOROUGHLY WATER—IN EACH PLANT IMMEDIATELY FOLLOWING INSTALLATION AND CONTINUE WATERING UNTIL SUBSTANTIAL COMPLETION. CONTRACTOR REQUIRED TO COORDINATE WATERING WITH THE OWNER AFTER SUBSTANTIAL COMPLETION. PROVIDE HOURLY RATE TO WATER THE SITE, IF IRRIGATION NOT INSTALLED OR NOT WORKING.
  - ALL AREAS OF THE SITE DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS BEDS / PAVEMENT AREAS SHALL BE SOODED WITH 90% TURF-TYPE TALL FESCUE AND 10% BLUEGRASS MIX SOD (NATURE'S CARPET - L.C. BRIGGS TURF FARM, CAPEN BRIGGS 816.547.6214 OR EQUAL).
  - CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING ALL AREAS OF SOD, ROCK & MULCH AND THE AMOUNTS OF EACH NEEDED FOR OPTIMUM COVERAGE.
  - NO TREES SHALL BE PLANTED OVER TOP OF ANY UTILITY LINES OR PIPES. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO PLANTING AND ANY MODIFICATIONS TO TREE LOCATIONS SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND APPROVED BY THE CITY PRIOR TO PLANTING.
  - ALL PLANT MATERIALS AND IRRIGATION SYSTEM SHALL BE GUARANTEED FOR 1 YEAR FROM DATE OF SUBSTANTIAL COMPLETION. PLANT MATERIALS WILL BE ONE TIME REPLACEMENT AND RECORDS KEPT BY THE LANDSCAPE CONTRACTOR FOR ALL REPLACEMENTS.
  - THIS LANDSCAPE PLAN IS DESIGNED TO BE IN CONFORMANCE WITH THE CITY OF LEE'S SUMMIT, MO UNIFIED DEVELOPMENT ORDINANCE. THE LANDSCAPE ARCHITECT WILL COORDINATE CLOSELY WITH THE CITY OF LEE'S SUMMIT, MO TO MAKE SURE FINAL DEVELOPMENT AND PERMIT PLANS ARE IN CONFORMANCE WITH THIS CODE.

**2 LANDSCAPE NOTES**  
NTS

**LANDSCAPE REQUIREMENTS**  
PER THE LEE'S SUMMIT UDO -ARTICLE 14:

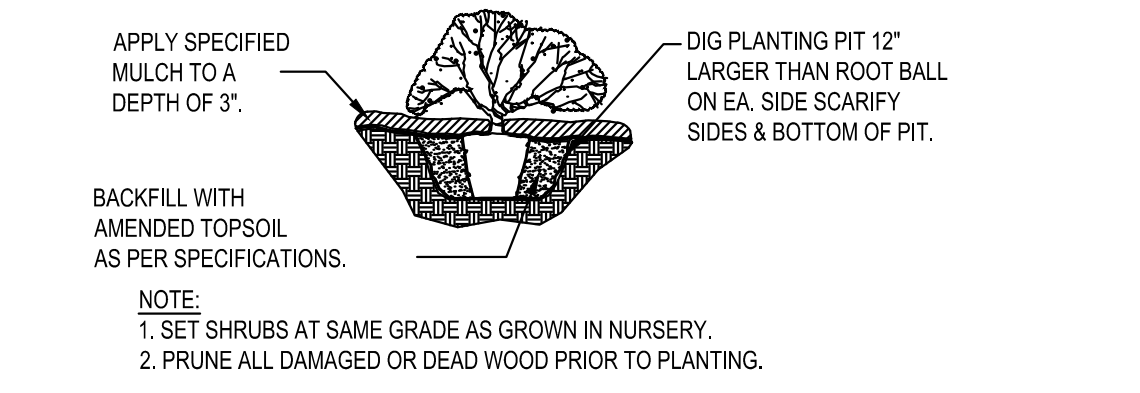
STREET FRONTAGE	LENGTH	REQUIRED	PROVIDED
NE INDEPENDENCE AVE.	781 LF	ONE TREE PER 30 LF FRONTAGE (26 TREES) ONE SHRUB PER 20 LF FRONTAGE (39 SHRUBS)	26 NEW TREES 39 NEW SHRUBS
NE JONES INDUSTRIAL DR.	340 LF	ONE TREE PER 30 LF FRONTAGE (11 TREES) ONE SHRUB PER 20 LF FRONTAGE (17 SHRUBS)	11 NEW TREES 17 NEW SHRUBS
NE MCBAIN DR.	781 LF	ONE TREE PER 30 LF FRONTAGE (26 TREES) ONE SHRUB PER 20 LF FRONTAGE (39 SHRUBS)	26 NEW TREES 39 NEW SHRUBS

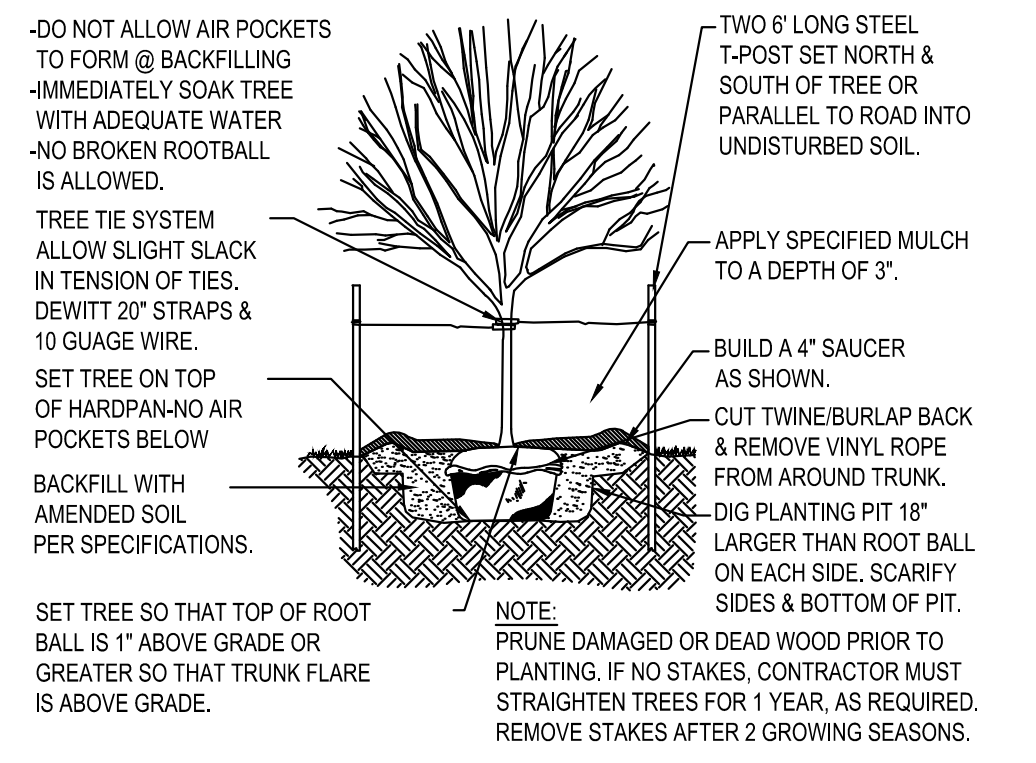
OPEN SPACE AREA:	1 TREE PER 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS/STRUCTURES 223,374 SF OPEN SPACE AREA = 45 TREES REQUIRED/50 TREES PROVIDED
	2 SHRUBS PER 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS/STRUCTURES 223,374 SF OPEN SPACE AREA = 89 SHRUBS REQUIRED/128 SHRUBS PROVIDED

PARKING LOT ISLANDS:	5% OF TOTAL PARKING AREA TO BE LANDSCAPE ISLANDS (123,305 TOTAL SF PARKING AREA) 6,165 REQUIRED SF LANDSCAPE ISLANDS/6,414 PROVIDED SF LANDSCAPE ISLANDS
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**3 SHRUB & PERENNIAL PLANTING DETAIL**  
NTS



**4 EVERGREEN TREE PLANT DETAIL**  
NTS

**PLANT SCHEDULE**

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE
	AS	31	Acer myrabei 'State Street' / Miyabei Maple	B & B		3' Cal
	AG	17	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	B & B		8' Ht.
	CF	8	Carpinus betulus 'Franz Fontaine' / Franz Fontaine Hornbeam	B & B		3' Cal
	GA	14	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Ginkgo	B & B		3' Cal
	MP	7	Malus x 'Prairifire' / Prairifire Crab Apple	B & B		3' Cal
	PF	7	Pinus flexilis 'Vanderwolf's Pyramid' / Vanderwolf's Pyramid Pine	B & B		8' Ht.
	QB	29	Quercus bicolor / Swamp White Oak	B & B		3' Cal

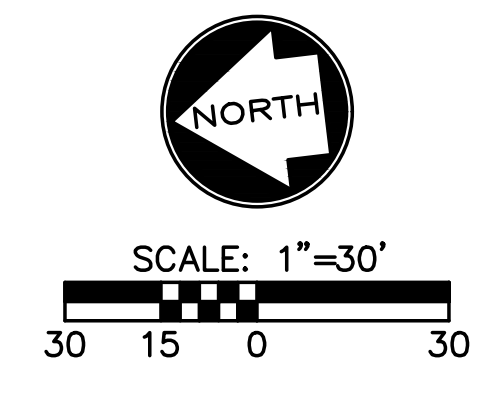
  

SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT
	BS	194	Buxus microphylla 'Sprinter' / Sprinter Boxwood	5 gal
	CO	28	Calamagrostis x acutiflora 'Overdam' / Overdam Feather Reed Grass	1 gal
	CA	93	Cornus stolonifera 'Arctic Fire' / Arctic Fire Dogwood	5 gal
	JF	74	Juniperus chinensis 'Sea Green' / Sea Green Juniper	5 gal
	JG	89	Juniperus procumbens 'Green Mound' / Green Mound Juniper	5 gal
	R3	15	Rosa x 'Novarosp' / Popcorn Drift Rose	3 gal
	SH	30	Sporobolus heterolepis / Prairie Dropseed	1 gal

GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING
	A1	48	Annual Bed / Annual Beds	4" pot	10" o.c.
	DD	921 sf	Decorative Rock / Decorative Rock	Ton	
	FS	79,791 sf	Fescue Sod / Drought-Tolerant Fescue Sod	sy rolls	
	RG	125	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	3 Gal.	48" o.c.

**6 PLANT SCHEDULE**  
NTS



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Missouri No.: 000958 (Expires: 12.31.2017)

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**MEP/FP CONSULTANT**  
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138 Weldon Parkway  
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State Certificate of Authority #2002018767

Proposed New Core & Shell Building For:  
**Lee's Summit Surgical**  
Lee's Summit, Missouri

Date	9/22/17
Job Number	170534-010
Drawn By	GMP
Checked By	GMP

Revisions	Number	Date	Description