

FINAL DEVELOPMENT PLANS

FOR

LOT 7A

STREETS OF WEST PRYOR

UTILITIES

Electric Service
Evergy
Nathan Michael
913-347-4310
Nathan.michael@evergy.com

Gas Service
Spire
Katie Darnell
816-969-2247
Katie.darnell@spireenergy.com

Water/Sanitary Sewer
Water Utilities Department
1200 SE Hamblen Road
Lee's Summit, Mo 64081
Jeff Thorn
816-969-1900
jeff.thorn@cityofls.net

Communication Service
AT&T Carrie Cilke
816-703-4386
cc3527@att.com

Time Warner Cable
Steve Baxter
913-643-1928
steve.baxter@charter.com

Comcast
Ryan Alkire
816-795-2218
ryan.alkire@cable.comcast.com

Google Fiber
Becky Davis
913-725-8745
rebeccadavis@google.com



UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

SAFETY NOTICE TO CONTRACTOR

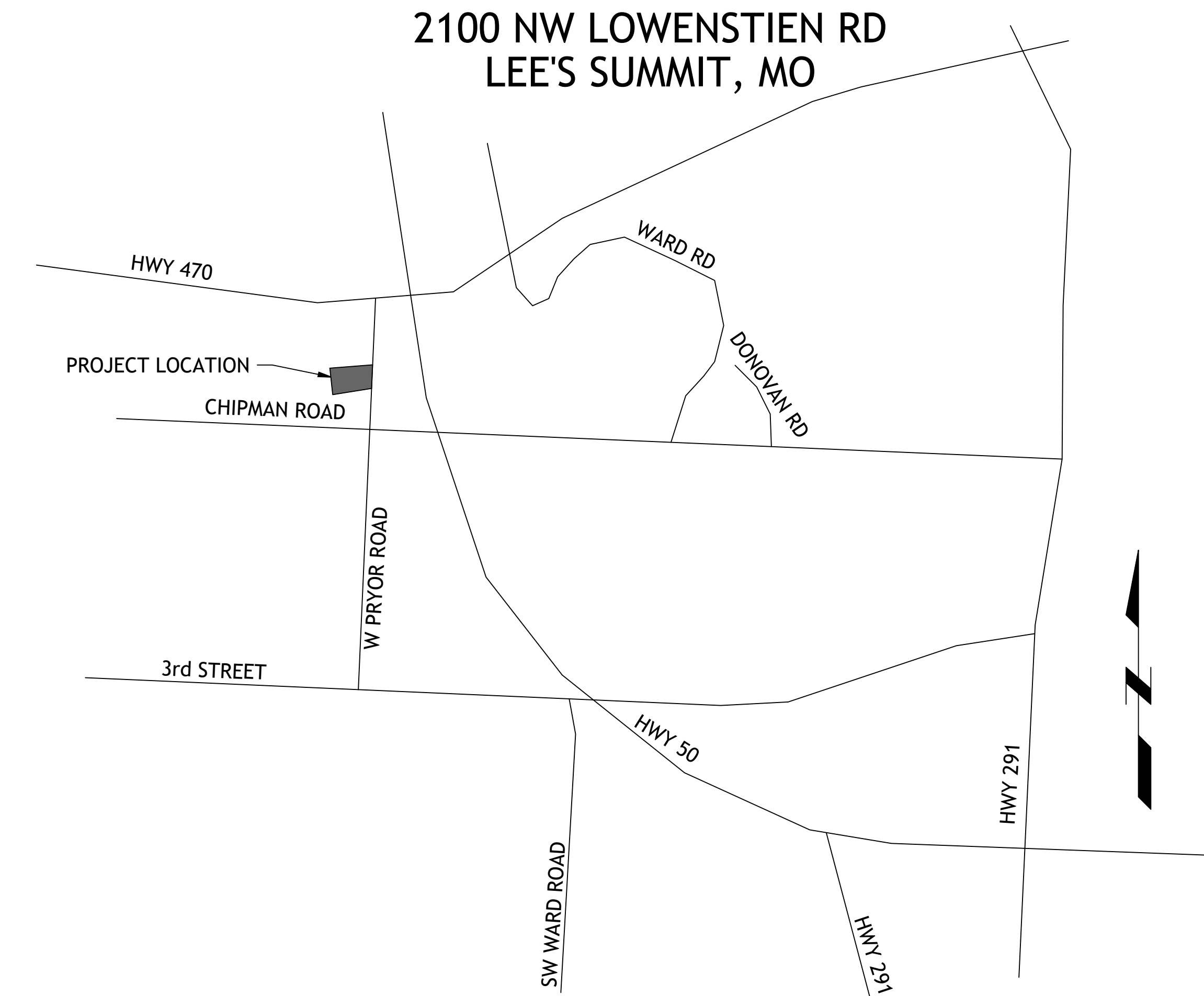
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY/DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SM ENGINEERING NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SM ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION- NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.



LOCATION MAP

LEGAL DESCRIPTION:

LOT 7 & TRACT C STREET OF WEST PRYOR
LOTS 1 THRU 14, TRACTS A, B, C, & D TO LEE'S SUMMIT, MO, JACKSON COUNTY MISSOURI

ALL EXISTING TOPOGRAPHIC DATA AND INFRASTRUCTURE IMPROVEMENTS SHOWN BASED ON INFORMATION BY KAW VALLEY ENGINEERING

BENCHMARKS:

#1 CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE
ELEVATION 985.05

#2 CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25' EAST OF CURB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD
ELEVATION 971.06

FLOODPLAIN NOTE:

SUBJECT PROPERTY IS SHOWN TO BE LOCATED IN "OTHER AREAS ZONE X" ON THE FLOOD INSURANCE RATE MAP FOR JACKSON COUNTY, MISSOURI AND INCORPORATED AREAS. COMMUNITY PANEL NO. 29095C0416G, REVISED JANUARY 20, 2017. "OTHER AREAS ZONE X" IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUL CHANCE FLOODPLAIN". LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

NOTE

ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE MORE STRINGENT SHALL PREVAIL.

INDEX OF SHEETS

- C-1 COVER SHEET
- C-2 EXISTING CONDITIONS
- C-3 OVERALL SITE PLAN
- C-4 UTILITY PLAN
- C-5 GRADING PLAN
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- C-7 EROSION CONTROL DETAILS
- C-8 SPOT GRADES
- C-9 SPOT GRADES
- C-10 ADA SPOT GRADES
- C-11 BLACK TWIG CIRCLE PLAN AND PROFILE
- C-12 INTERSECTION DETAIL
- C-13 STORM LINE A & B PLAN AND PROFILE
- C-14 STORM LINE C & D PLAN AND PROFILE
- C-15 STORM LINE E & F PLAN AND PROFILE
- C-16 STORM LINE G, H, I, & J PLAN AND PROFILE
- C-17 ROOF DRAINS
- C-18 ROOF DRAINS
- C-19 ROOF DRAINS
- C-20 ROOF DRAINS
- C-21 DRAINAGE PLAN
- C-22 WATERLINE A PLAN AND PROFILE
- C-23 WATERLINE B PLAN AND PROFILE
- C-24 WATERLINE C PLAN AND PROFILE
- C-25 LANDSCAPE PLAN
- C-26 DETAILS
- C-27 DETAILS
- C-28 DETAILS

DEVELOPER

SWP III, LLC
C/O DRAKE DEVELOPMENT, LLC
7200 W 132nd ST, SUITE 150
OVERLAND PARK, KS 66213
913-662-2630

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5507 HIGH MEADOW CIRCLE
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PROFESSIONAL ENGINEER

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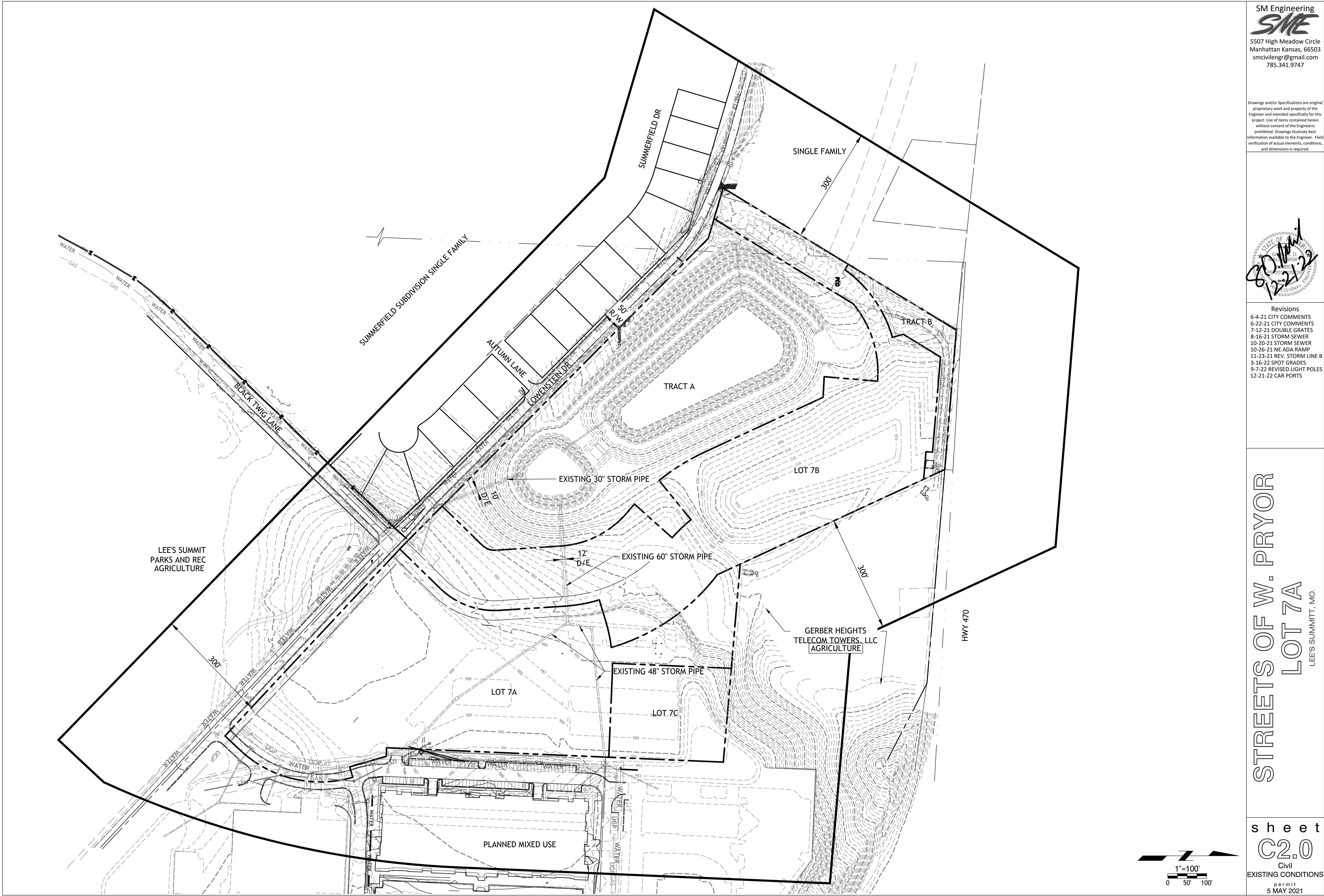
STREETS OF W. PRYOR
LOT 7A
LEE'S SUMMIT, MO.

s h e e t

C1.0

Civil
Site Improvement Plan

permit
5 MAY 2021



SM Engineering

SME

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STREETS OF W. PRYOR

LOT 7A

LEES SUMMITT, MO.

sheet

C2.0

Civil

EXISTING CONDITIONS

permit
5 MAY 2021

CONSTRUCTION NOTES:

1. COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH OWNER.
2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE STANDARD SPECIFICATIONS.
3. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO STREETS IN THE CONSTRUCTION AREA.
5. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
6. ACCESSIBLE STALLS SHOWN WITH A "VAN" SHALL BE 16'-0" MIN. AND SHALL HAVE A SIGN DESIGNATING "VAN-ACCESSIBLE". SEE DETAIL102.

NOTE:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES AND RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.
3. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.

NOTE:

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

SITE DATA

TOTAL SITE	9.24ac (402,422sf)
TOTAL IMPERVIOUS AREA	238,400sf
OPEN SPACE	164,022sf
TOTAL BUILDING	83,700sf
FAR	0.21
TOTAL REQUIRED	341
PARKING PROVIDED	376

SEE DETAIL SHEET FOR THE FOLLOWING DETAILS:

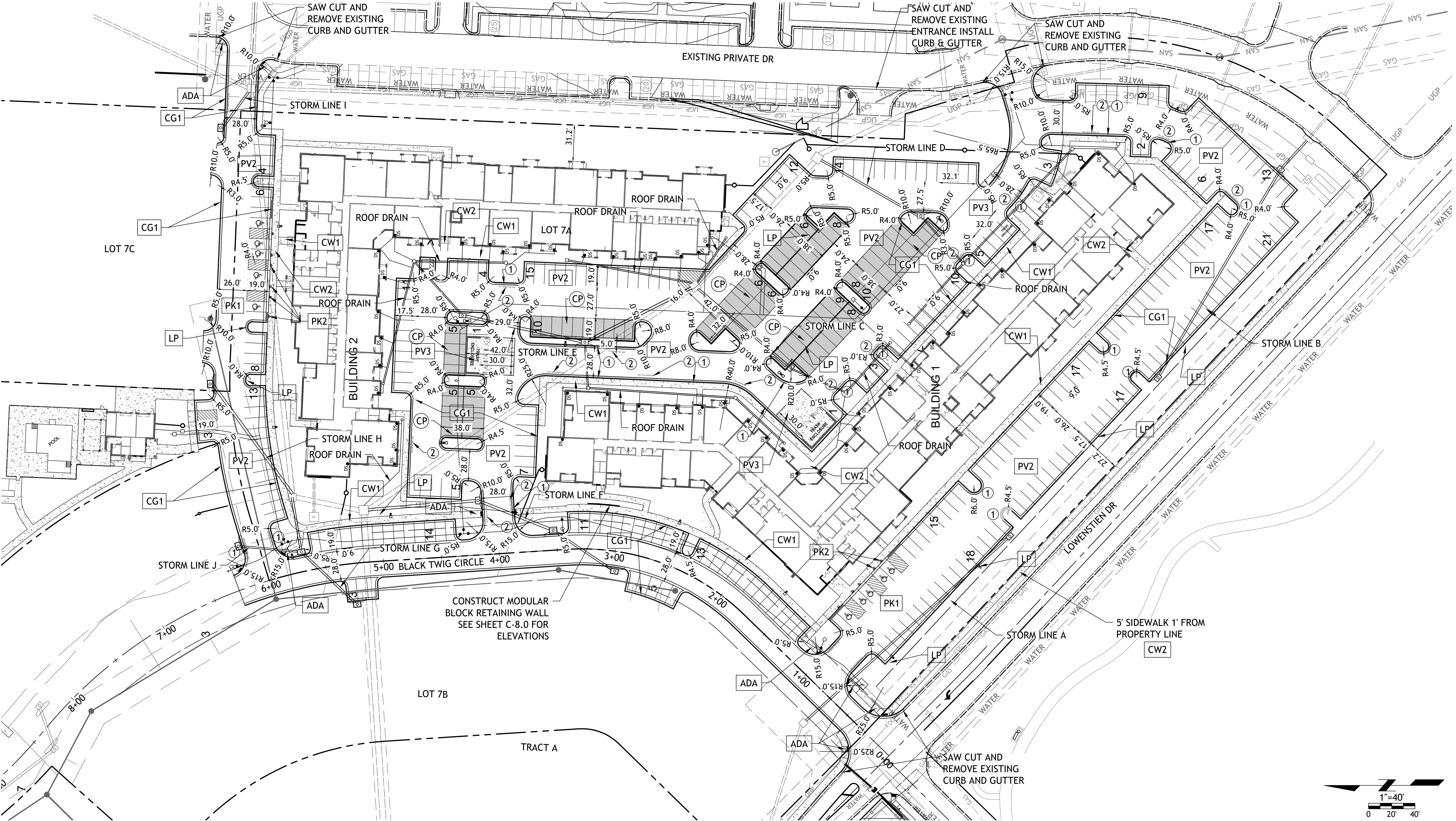
- PK-1 96" ACCESSIBLE & VAN ACCESSIBLE SPACE STRIPING
PK-2 ACCESSIBLE SIGN
CG-1 CURB AND GUTTER
PV2 HEAVY DUTY ASPHALT PAVEMENT
CW2 SIDEWALK
ADA HANDICAP RAMP SEE GEN-3A DETAIL
LP LIGHT POLE BASE
CW1 CURB WALK
STM-1 STORM INLET
STM-3 JUNCTION BOX
TE TRASH ENCLOSURE (SEE ARCHITECTURAL PLANS)

NOTES:

- 8A DOOR (SEE ARCH. PLANS)
12K WHITE PARKING LOT STRIPING (SHERWIN-WILLIAMS TM 2160 LEAD FREE OR APPROVED EQUAL)
CO CLEAN-OUT (SEE GRADING PLAN)
CP CAR PORTS
PV2 HEAVY DUTY ASPHALT
PV3 HEAVY DUTY CONCRETE
1 PAINT CURB RED
2 PAINT 6" LETTERS "NO PARKING FIRE LANE"

SITE DATA															
LOT	USE	LOT AREA (SF)	LOT AREA (ACRES)	BLDG AREA SF (ENVELOPE)	TOTAL SQFT	# OF DWELLING UNITS	# OF DWELLING UNITS PER ACRE	# OF FLOORS	1 BDRM	2 BDRM	3 BDRM	PARKING REQUIRED	PARKING PROVIDED	ADA SPACES REQ (VAN)	ADA SPACES PROV (VAN)
Proposed LOT 7A	Apts Bldg 1	402,422	9.24	45,200	135,600	100	10.82	3	43	41	16	183	376	6 (1)	6 (1)
	Apts Bldg 2	NA	NA	38,500	115,500	84	NA	3	33	30	21	***158	N/A	5 (1)	5 (1)

PRK LOT COVERAGE	IMPERVIOUS COVERAGE	OPEN SPACE
154,700	238,400	164,022
NA	NA	NA



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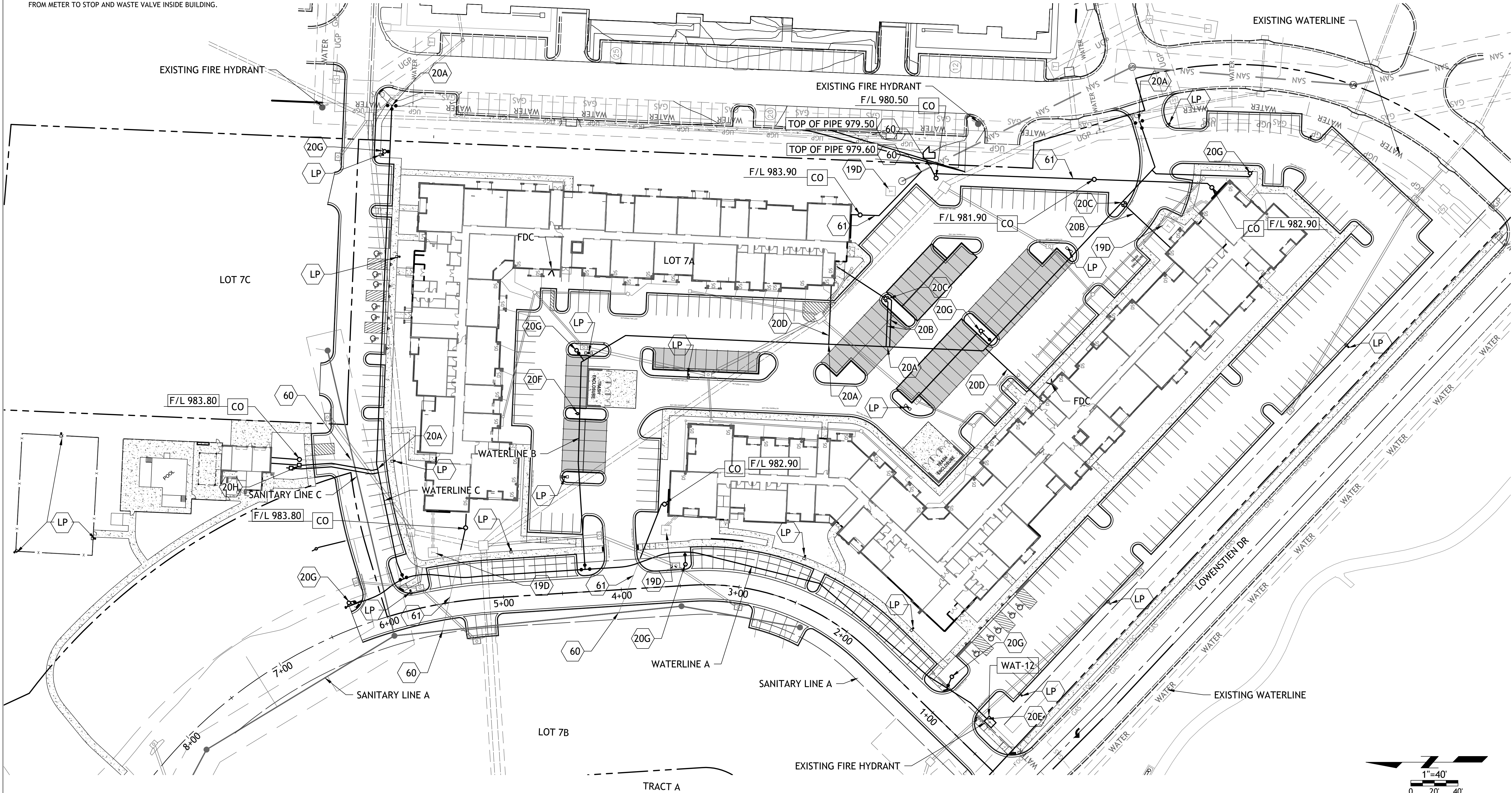
UTILITY NOTES:

1. ALL UTILITY AND STORM SEWER TRENCHES CONSTRUCTED UNDER AREAS THAT RECEIVE PAVING SHALL BE BACKFILLED TO 18 INCHES ABOVE THE TOP OF THE PIPE WITH SELECT GRANULAR MATERIAL PLACED ON EIGHT-INCH LIFTS, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. SM ENGINEERING AND OWNER ARE TO BE HELD HARMLESS.
3. ALL WATER AND SANITARY SEWER SYSTEMS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS PREVIOUSLY APPROVED BY THE CITY OF LEE'S SUMMIT AND THE STATE OF MISSOURI AND SHALL BE INSPECTED BY THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THIS INSPECTION OCCURS.
4. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER, TO AVOID CONFLICTS.
5. CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC WATER MAINS AND SERVICE LINES PER SPECIFICATIONS.
6. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
7. WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. ALL VALVES ON MAINS AND FIRE HYDRANT LEADS SHALL BE WITH VALVE BOX ASSEMBLIES. THE SIZE OF VALVE BOX ASSEMBLY TO BE INSTALLED IS DETERMINED BY THE TYPE AND SIZE OF VALVE. VALVE BOX CAPS SHALL HAVE THE WORD "WATER".
8. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A SANITARY SEWER LINE, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AT LEAST 10 FEET EITHER SIDE OF THE WATER LINE UNLESS THE WATER LINE IS AT LEAST 2 FEET CLEAR DISTANCE ABOVE THE SANITARY SEWER LINE.
9. INSTALL 2" TYPE "K" COPPER FROM THE MAIN TO THE METER AND EITHER TYPE "K" OR POLYETHYLENE PLASTIC TUBING (PE 3608) FROM METER TO STOP AND WASTE VALVE INSIDE BUILDING.

DETAILS	
MS1	TRENCH AND BEDDING DETAILS
WAT-12	DCD VAULT
WAT-11	WATER SERVICE CONNECTION
WAT-7	FIRE HYDRANT
CO	CLEANOUT

NOTES

- 18A POINT OF CONNECTION - TELEPHONE SERVICE - COORDINATE WITH TELEPHONE COMPANY
- 18B UNDERGROUND TELEPHONE SERVICE PER LOCAL TELEPHONE COMPANY
- 18C 2-2" CONDUIT INSTALLED BY CONTRACTOR - TELEPHONE SERVICE
- 19A POINT OF CONNECTION - ELECTRICAL SERVICE
- 19B ELECTRICAL SERVICE (SEE NOTE 10)
- 19C 4" CONDUIT INSTALLED BY CONTRACTOR - ELECTRIC SERVICE
- 19D TRANSFORMER - PER EVERGY DETAIL 700-103
- 20A POINT OF CONNECTION - WATER SERVICE
- 20B 2-2" TAPS WITH WITH 4.0" SERVICE LINE AFTER METERS
- 20C 2-2" METERS
- 20D 6" FIRE LINE
- 60 6" SANITARY SEWER SERVICE LINE SDR-26 PVC CONNECTION SHALL BE A CUT-IN WYE
- 61 6" SANITARY SEWER SERVICE LINE SDR 26 PVC
- 20E INSTALL 8" BACKFLOW PREVENTION ASSEMBLY IN 8'X6' VAULT OR AS REQUIRED PER CLEARANCE SEE DETAIL WAT-12
- 20F 1" IRRIGATION METER & BFP
- 20H 1" WATER TAP & WATER METER
- 20G FIRE HYDRANT ASSEMBLY WITH 1-6" GATE VALVE
- LP LIGHT POLE



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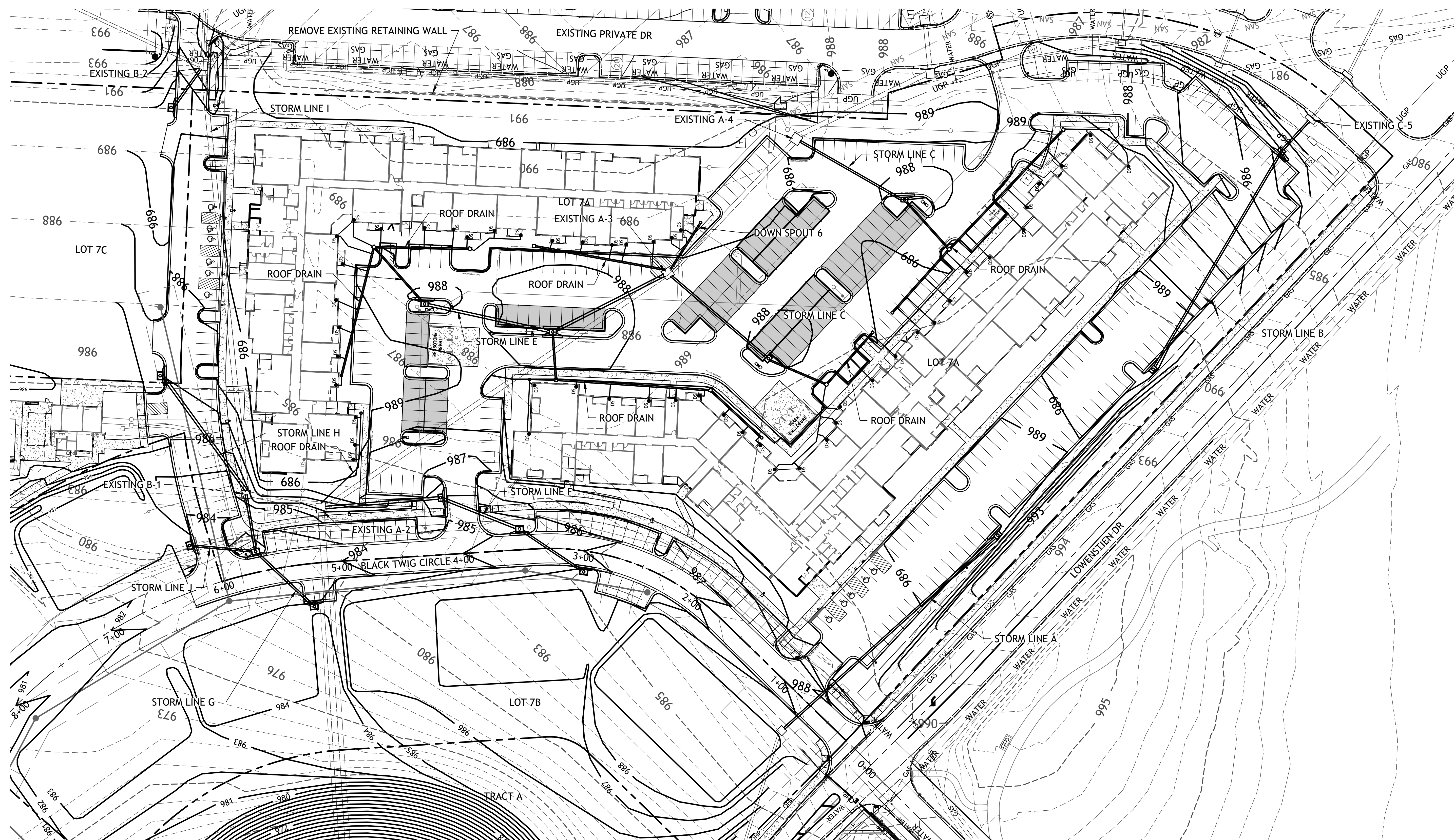
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sheet
C4.0
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UTILITY PLAN
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1"=40'
0 20' 40'

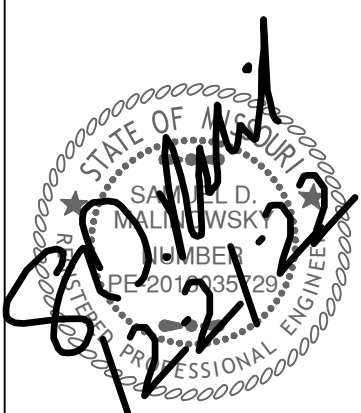
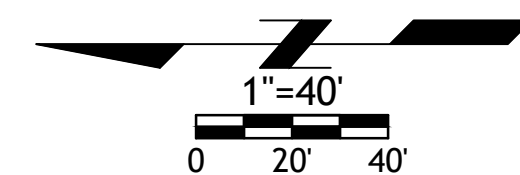


GRADING NOTES:

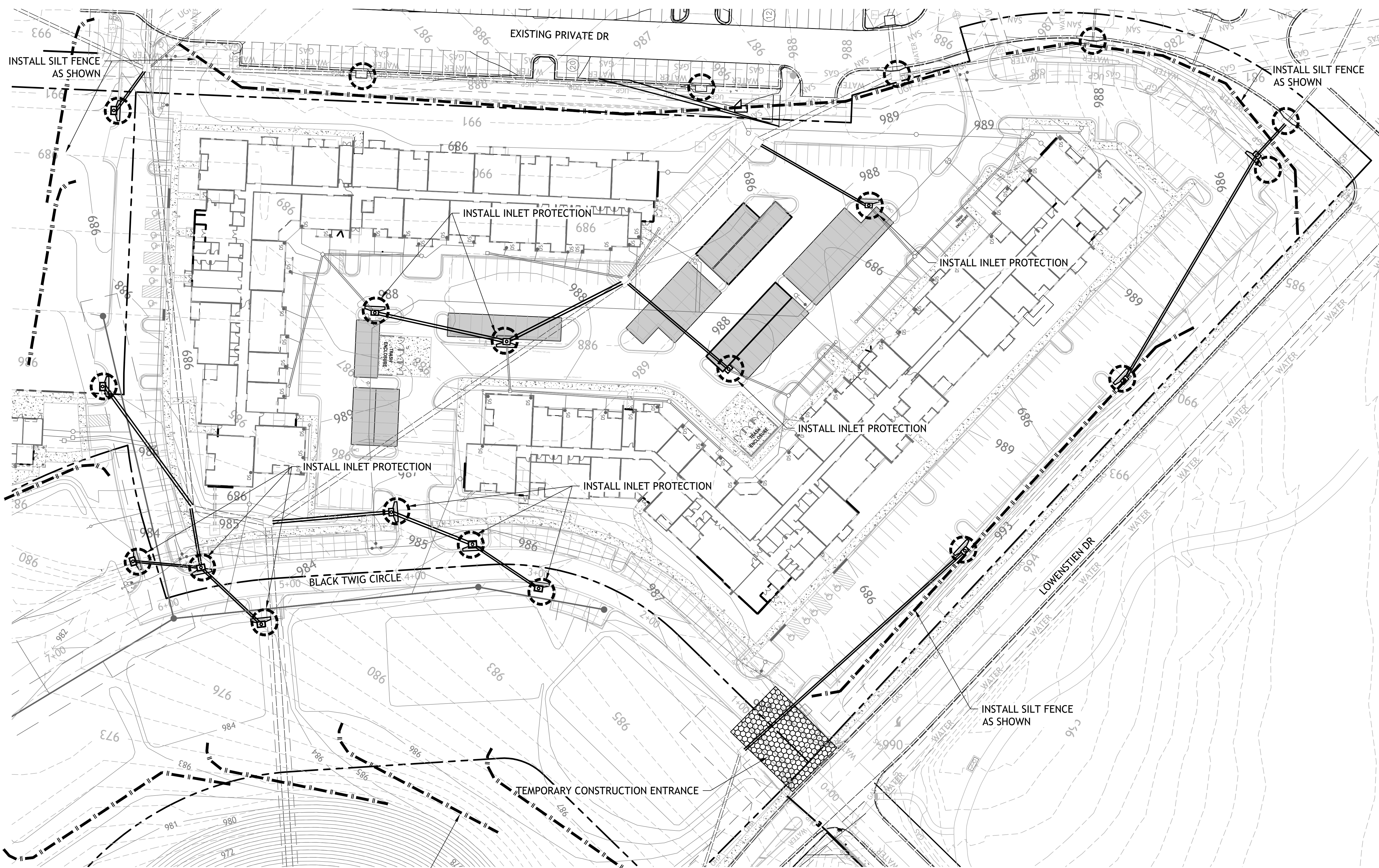
1. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
2. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
3. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED. A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
4. CONTRACTOR SHALL USE SILT FENCE OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.

5. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
7. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
9. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.
10. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
11. CONTRACTOR TO ADJUST DEPTHS OF EXISTING SERVICE LINES AS NECESSARY

12. ALL CONSTRUCTION TRAFFIC, TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO REQUIREMENTS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
13. SITE BEING ROUGH GRADED TO 12.5" BELOW FINISHED GRADE
14. CONTRACTOR TO PLACE 8" LOW PERMEABILITY LVC FOR BUILDING PAD



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LEGEND

SILT FENCE

INLET PROTECTION

TEMPORARY CONSTRUCTION ENTRANCE

- NOTES:
1. Prior to Land Disturbance activities, the following shall occur:
 - a) Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing and placement of physical barriers or other means acceptable to the City Inspector and in conformance with the erosion and pollution control plan;
 - b) Construct a stabilized entrance/parking/staging area;
 - c) Install perimeter controls and protect any existing stormwater inlets;
 - d) Request an initial inspection of the installed Phase I pollution control measures designated on the approved erosion and pollution control plan. Land disturbance work shall not proceed until there is a passed inspection
 2. The site shall comply with all requirements of the MoDNR general requirements
 - a) Immediate initiation of temporary stabilization BMPs on disturbed areas where construction activities have temporarily ceased on that portion of the project site if construction activities will not resume for a period exceeding 14 calendar days. Temporary stabilization may include establishment of vegetation, geotextiles, mulches or other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb the area. This stabilization must be completed within 14 calendar days;
 - b) Inspection of erosion and sediment control measures shall be performed to meet or exceed the minimum inspection frequency in the MoDNR General Permit. At a minimum, inspections shall be performed during all phases of construction at least once every 14 days and within 24 hours of each precipitation event.
 - c) An inspection log shall be maintained and shall be available for review by the regulatory authority;
 - d) The erosion and pollution control plan shall be routinely updated to show all modifications and amendments to the original plan. A copy of the erosion and pollution control plan shall be kept on site and made available for review by the regulatory authority.
 3. Temporary seeding shall only be used for periods not to exceed 12 months. For final stabilization, temporary seeding shall only be used to establish vegetation outside the permanent seeding or sodding dates as specified in the Standard Specifications. Final stabilization requires a uniform perennial vegetative cover with a density of 70% over 100% of disturbed area.
 4. Erosion and pollution control shall be provided for the duration of a project. All installed erosion and pollution control BMPs shall be maintained in a manner that preserves their effectiveness. If the City determines that the BMPs in place do not provide adequate erosion and pollution control at any time during the project, additional or alternate measures that provide effective control shall be required.
 5. Concrete wash or rinse water from concrete mixing equipment. Tools and/or ready-mix trucks, etc., may not be discharged into or be allowed to run to any existing water body or portion of the storm water system. One or more locations for concrete washout will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place. Proper signage will be installed to direct users to the concrete washout. Concrete washouts must be handled prior to pouring any concrete.
 6. Silt fences and sediment control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction. However, anticipated disturbance by utility construction shall not delay installation.
 7. Required sediment basins and traps shall be installed as early as possible during mass grading. Sediment basins and traps shall be cleaned out when the sediment capacity has been reduced by 20% of its original design volume.
 8. All manufactured BMPs such as erosion control blankets, TRMs, biodegradable logs, filter socks, synthetic sediment barriers and hydraulic erosion control shall be installed as directed by the manufacturer.
 9. The above requirements are the responsibility of the permittee for the site. Responsibility may be transferred to another party by the permittee, but the permittee shall remain liable by the City of Lee's Summit if any of the above conditions are not met.

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LEES SUMMITT, MO.

sheet

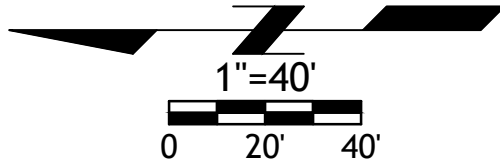
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Civil

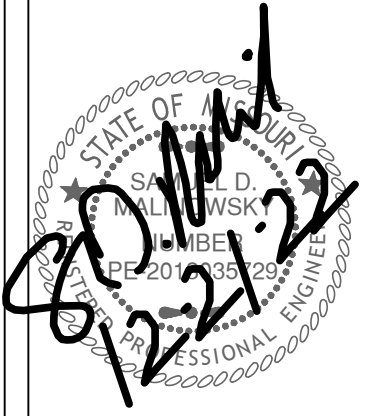
EROSION CONTROL

permit

5 MAY 2021



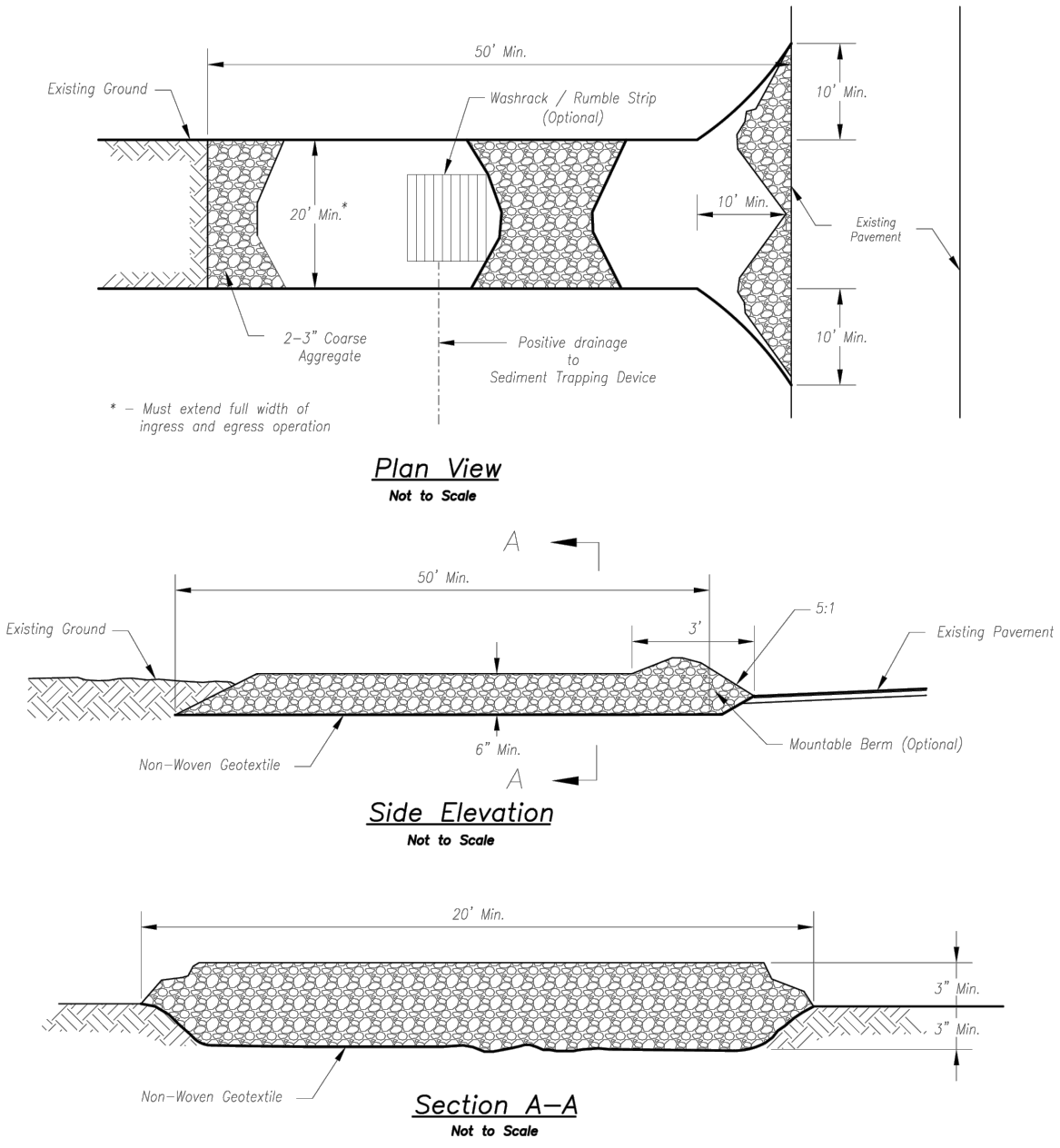
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- Revisions
- 6-4-21 CITY COMMENTS
 - 6-22-21 CITY COMMENTS
 - 7-12-21 DOUBLE GRATES
 - 8-16-21 STORM SEWER
 - 10-20-21 STORM SEWER
 - 10-26-21 NE ADA RAMP
 - 11-23-21 REV. STORM LINE B
 - 8-16-22 SPOT GRADES
 - 9-7-22 REVISED LIGHT POLES
 - 12-21-22 CAR PORTS

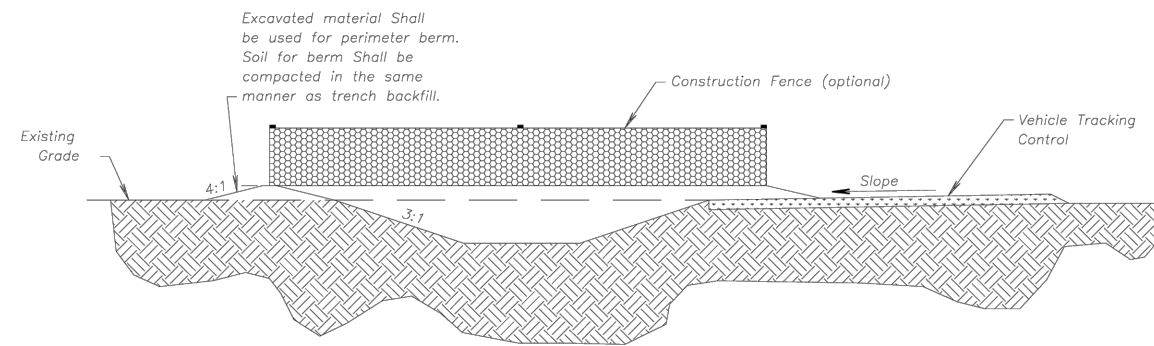
AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
STANDARD DRAWING NUMBER ESC-03	
ADOPTED: 10/24/2016	

STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.



- 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 sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking post 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.

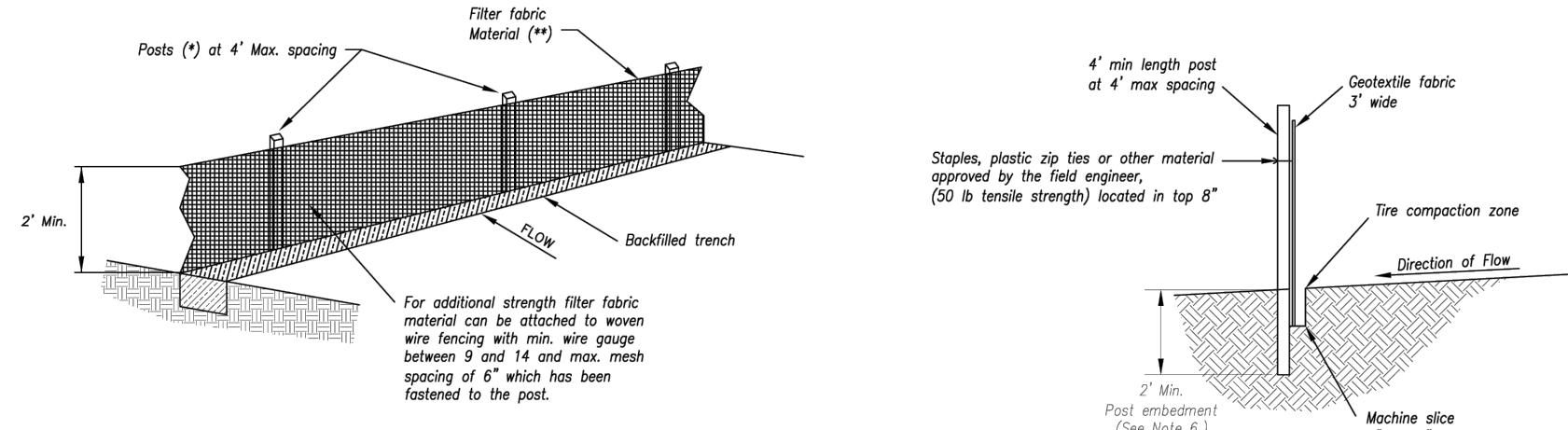
- Maintenance for Concrete Washout:**
- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
 - Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
 - Concrete washout water, washed pieces of concrete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



CONCRETE WASHOUT

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

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



- (*) POSTS
- MIN. LENGTH 4'
 - HARDWOOD 1 3/4\" x 1 3/4\"
 - NO.2 SOUTHERN PINE 2 1/4\" x 2 1/4\"
 - STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS

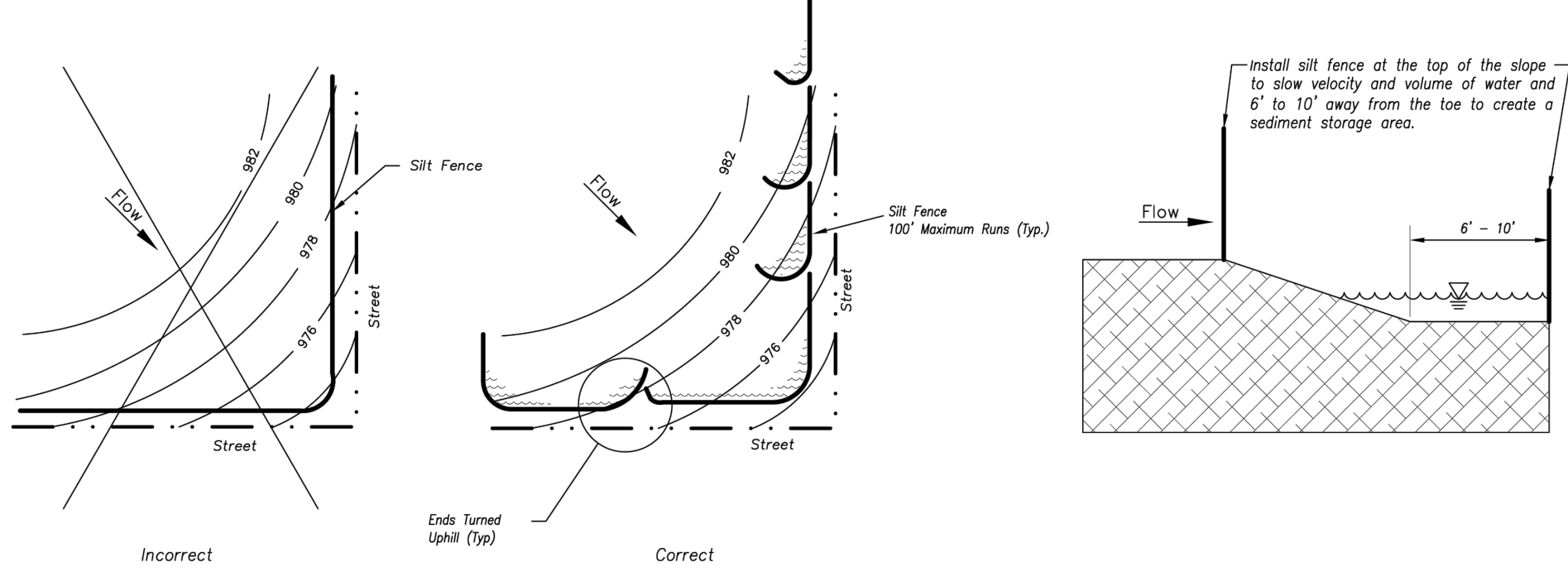
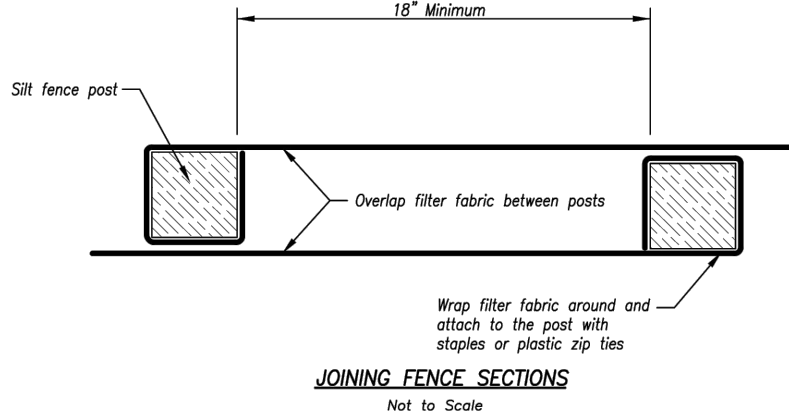


Figure A

SILT FENCE LAYOUT

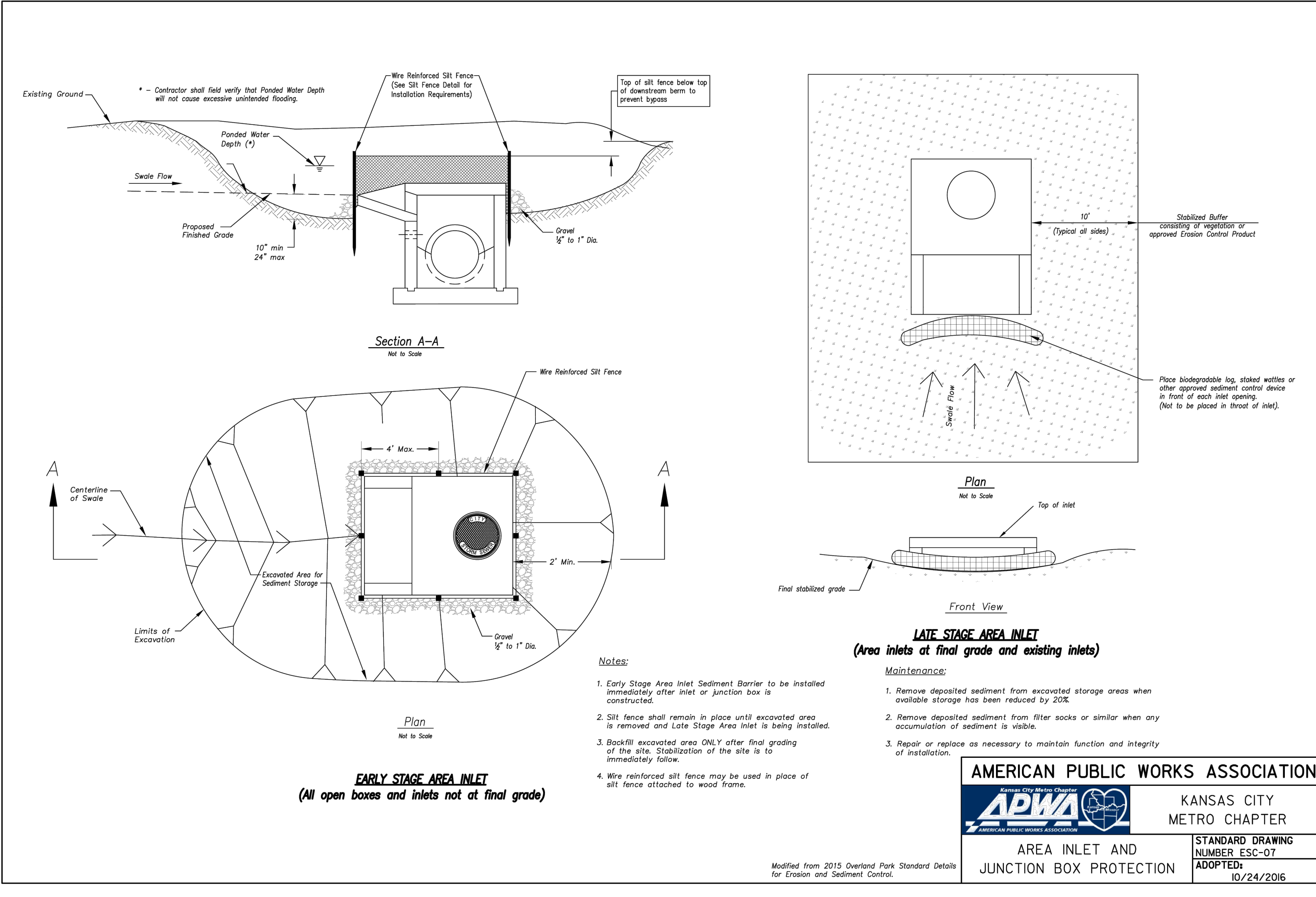
Maintenance:

- 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.

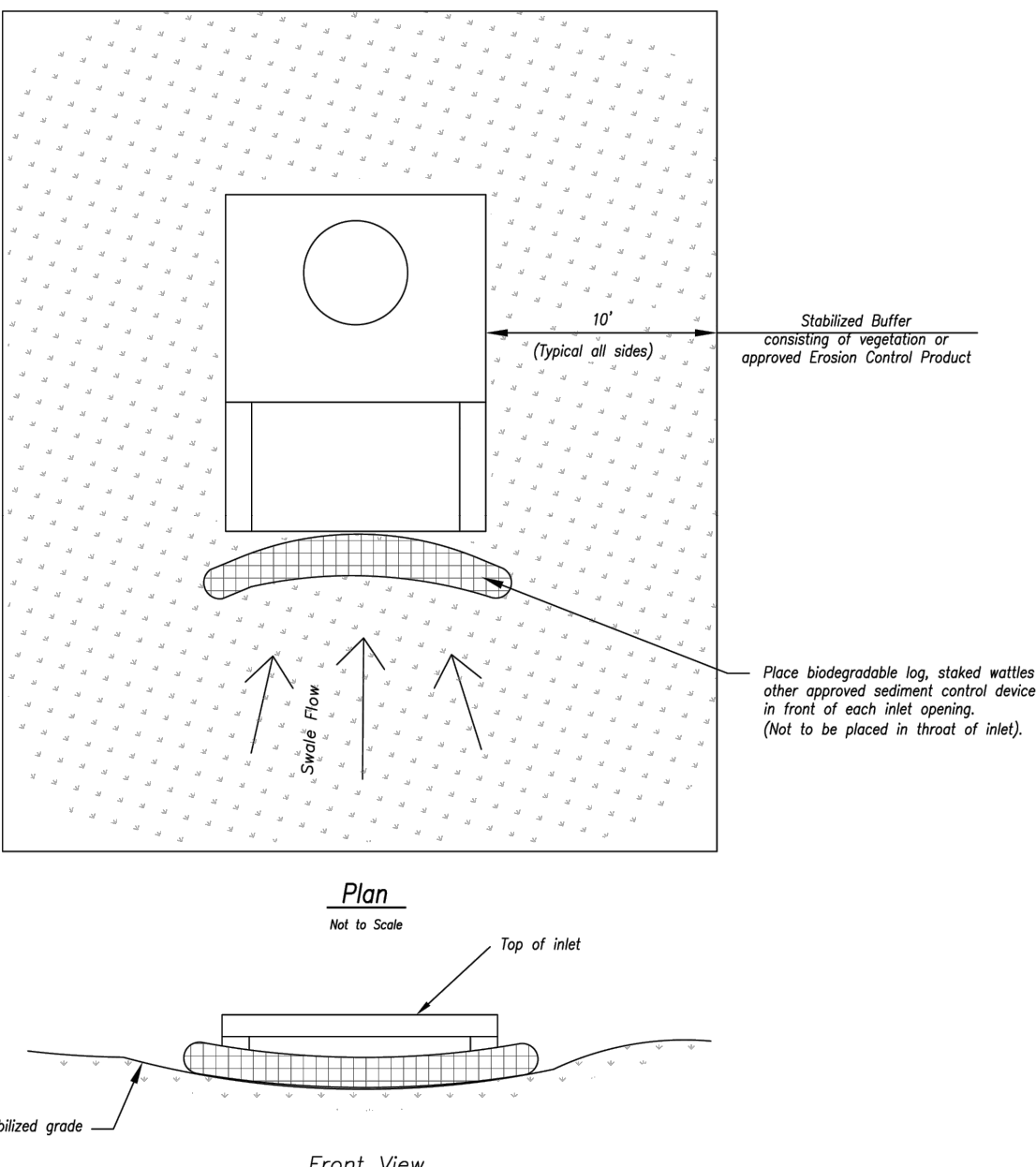


AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
SILT FENCE	
STANDARD DRAWING NUMBER ESC-03	
ADOPTED: 10/24/2016	

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



- 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.



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

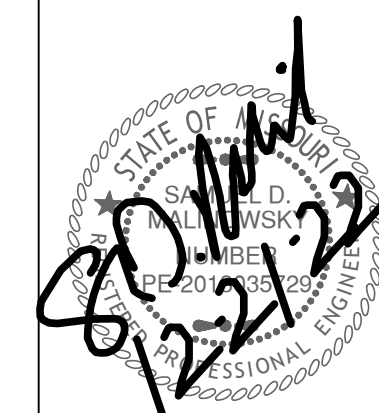
Maintenance:

- 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	
AREA INLET AND JUNCTION BOX PROTECTION	
STANDARD DRAWING NUMBER ESC-07	
ADOPTED: 10/24/2016	

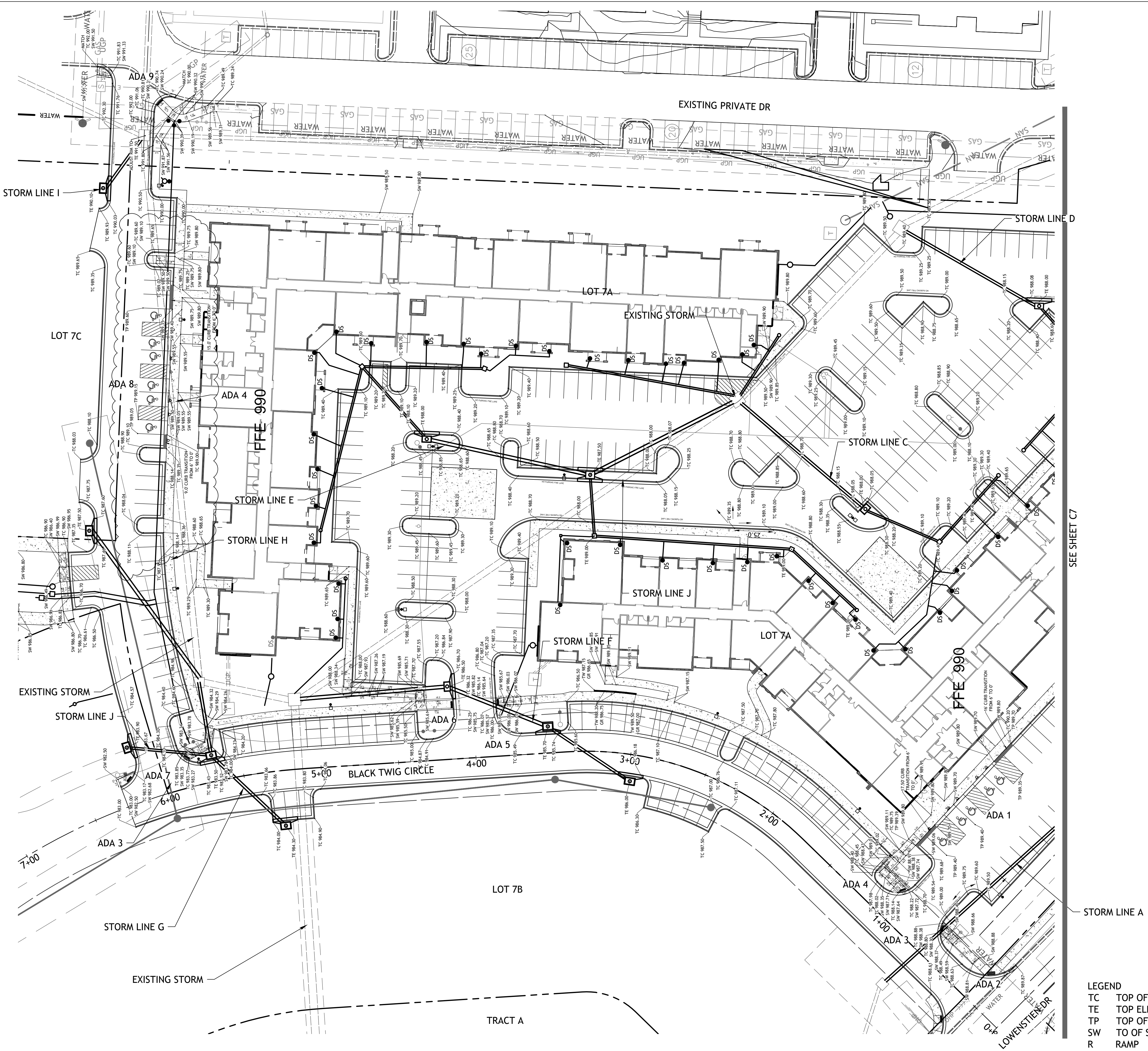
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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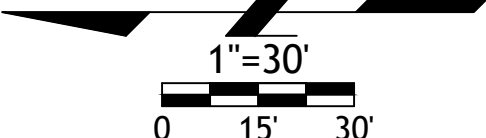
- Revisions
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 - 12-21-22 CAR PORTS

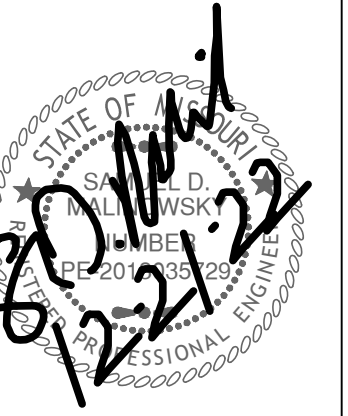
STREETS OF W. PRYOR LOT 7A LEES SUMMITT, MO.



SEE SHEET C7

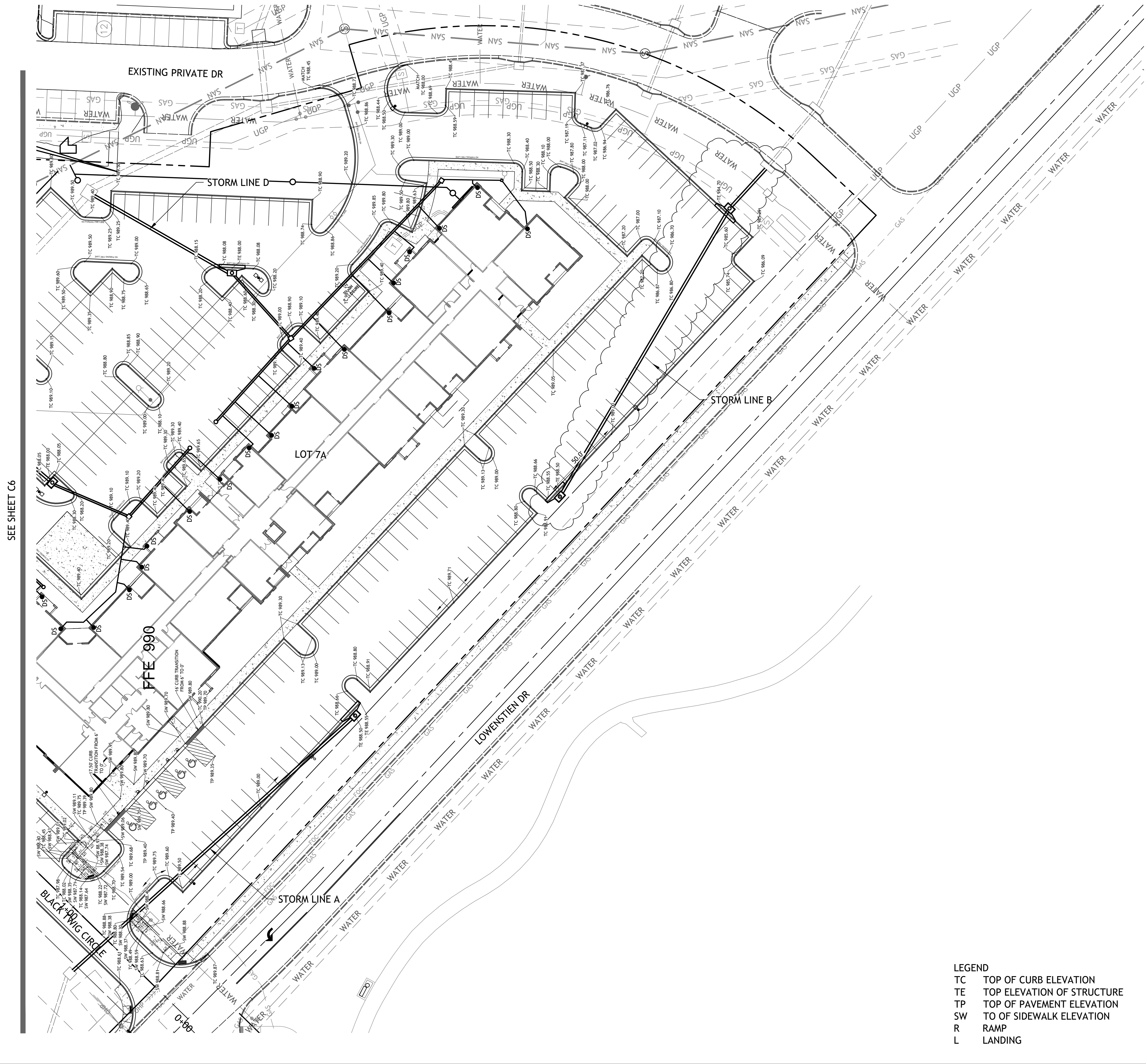
- LEGEND
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 - TE TOP ELEVATION OF STRUCTURE
 - TP TOP OF PAVEMENT ELEVATION
 - SW TO OF SIDEWALK ELEVATION
 - R RAMP
 - L LANDING



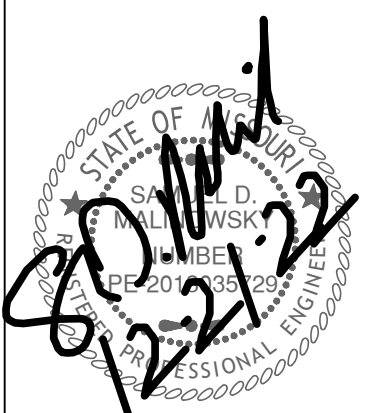


Revisions
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22-21 CITY COMMENTS
12-21 DOUBLE GRATES
16-21 STORM SEWER
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0-26-21 NE ADA RAMP
1-23-21 REV. STORM LINE B
16-22 SPOT GRADES
7-22 REVISED LIGHT POLES
2-21-22 CAR PORTS

STREETS OF W. PRYOR
LOT 7A
LEE'S SUMMITT, MO.



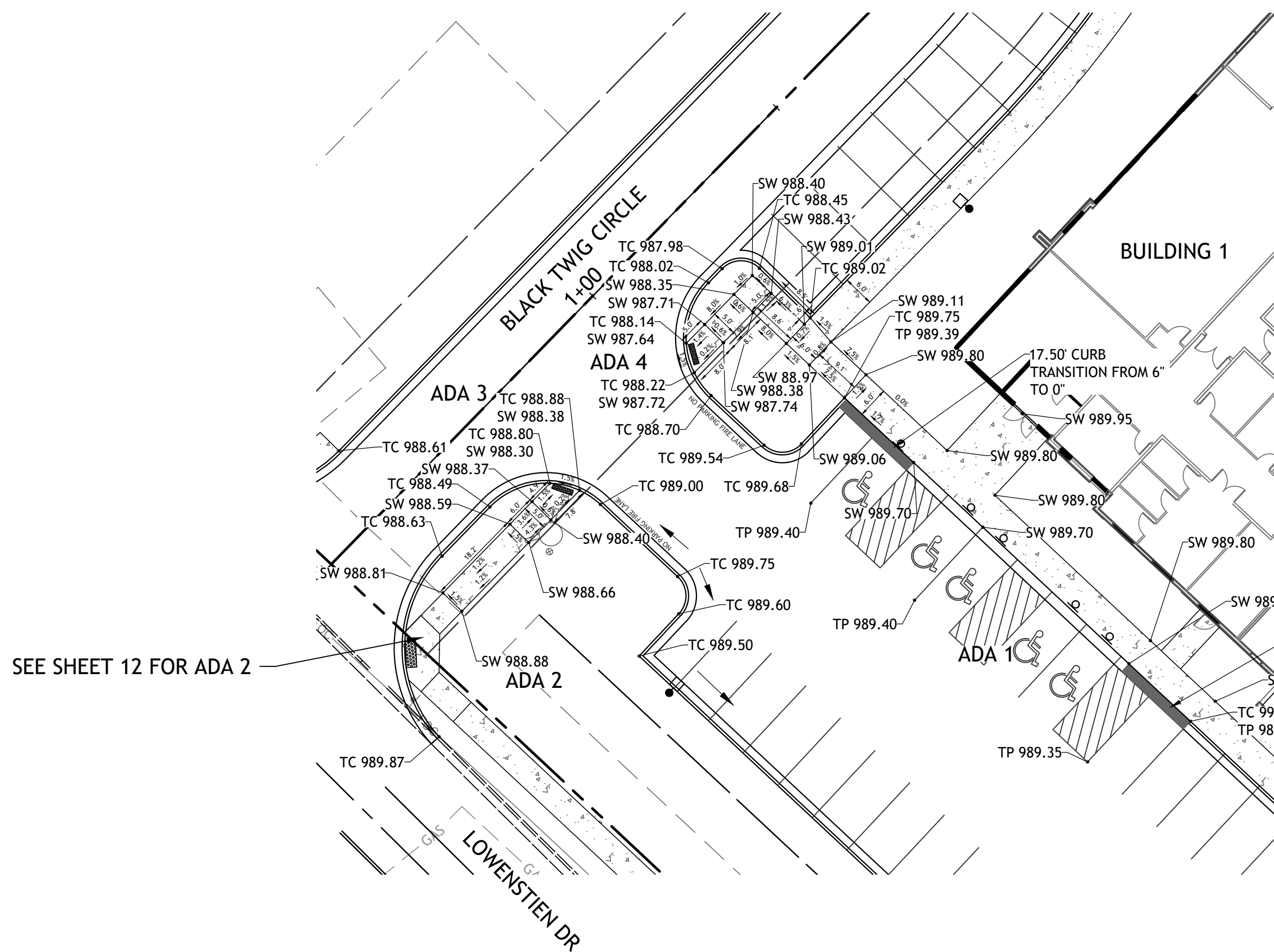
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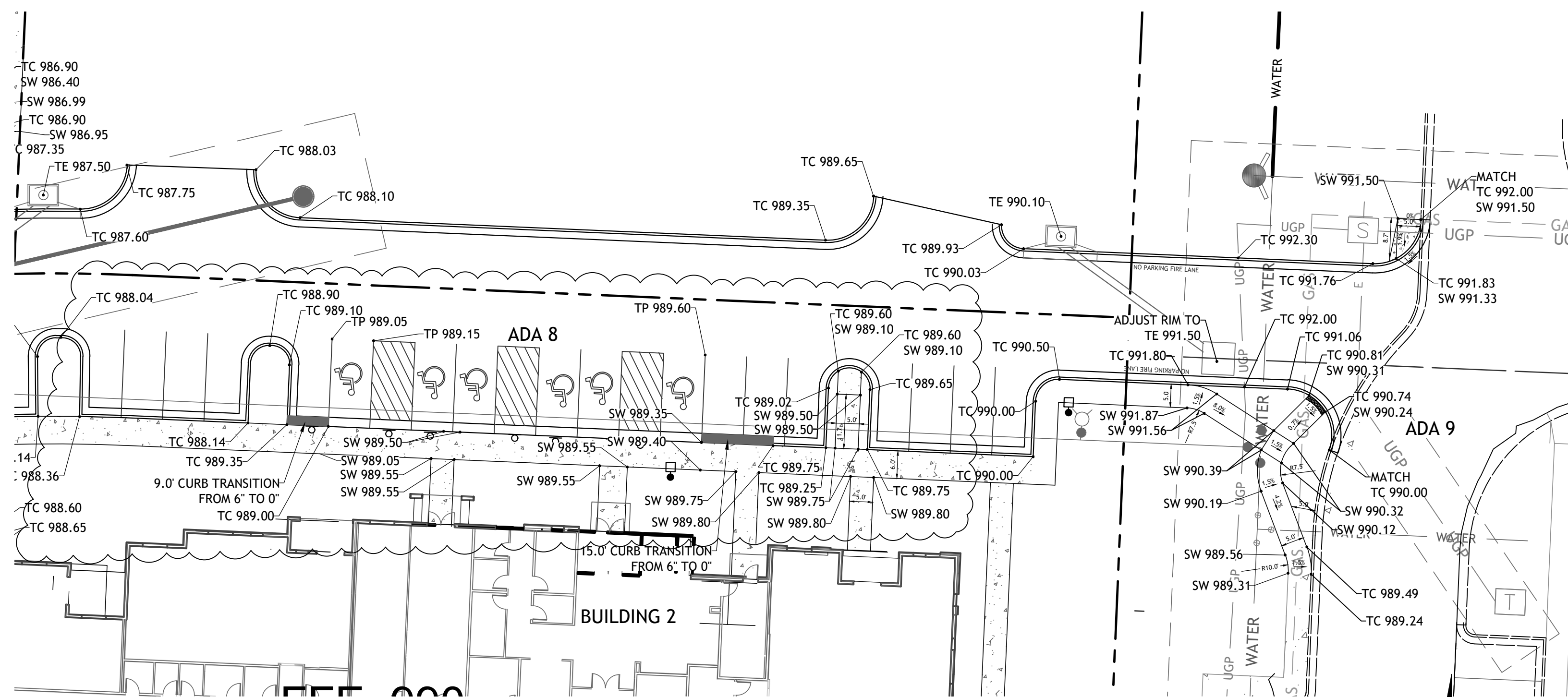
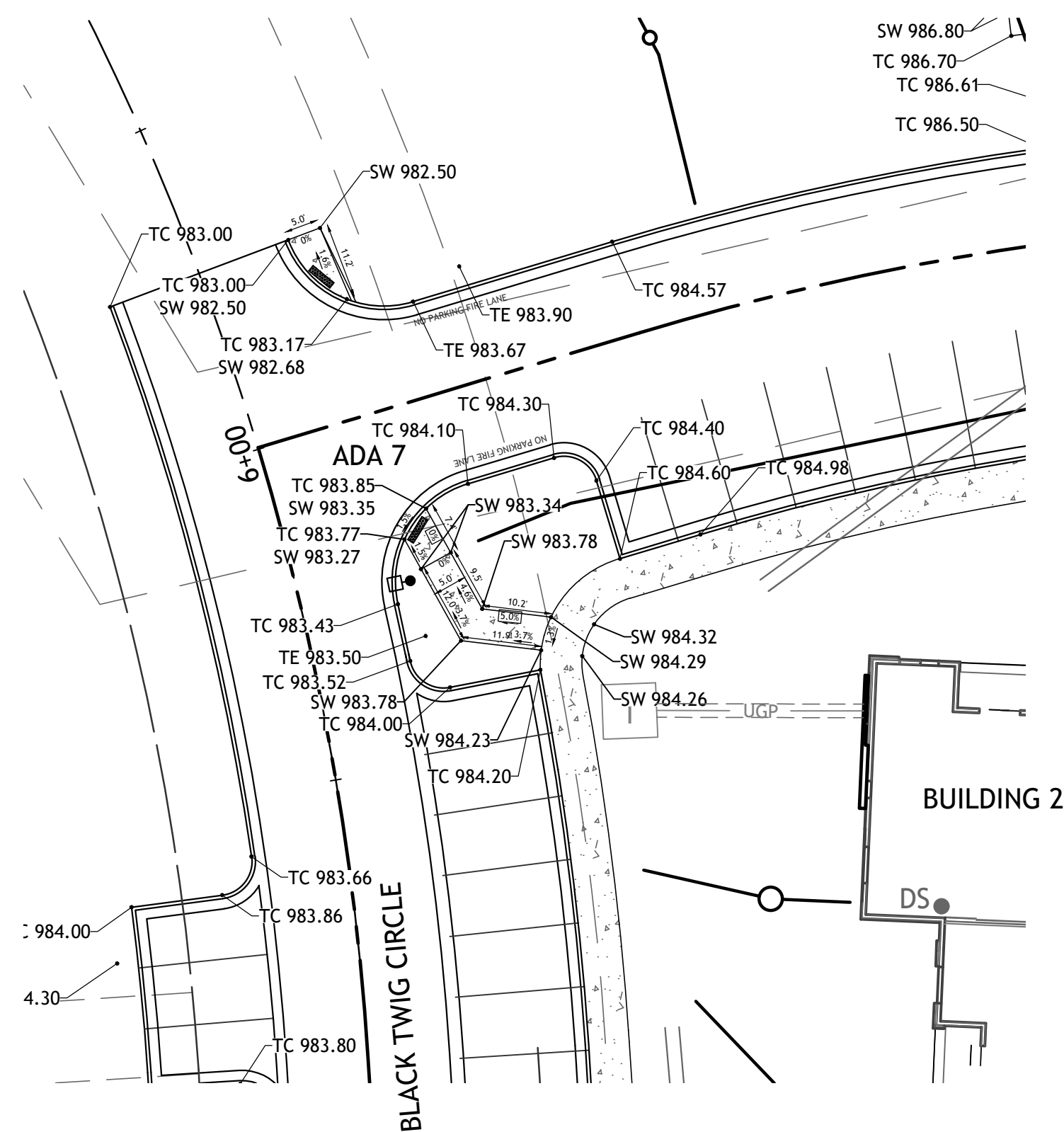
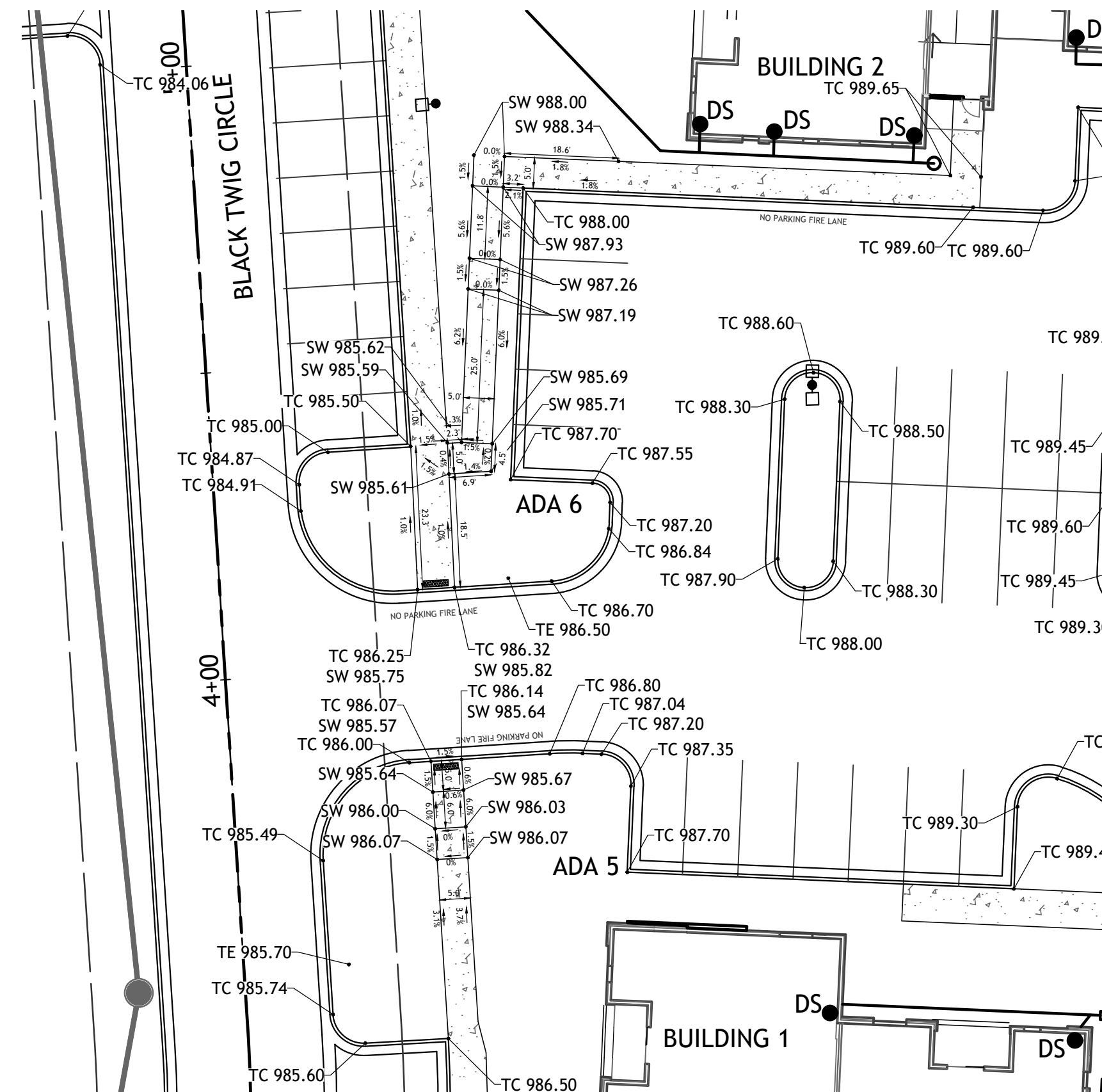
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

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C10.0
Civil
ADA SPOT GRADES
permit
5 MAY 2021



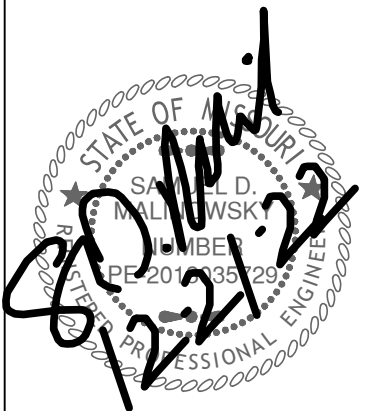
SEE SHEET 12 FOR ADA 2



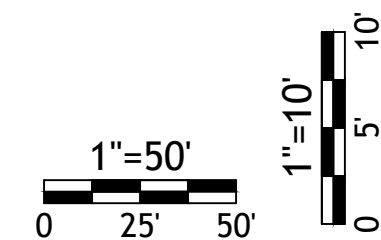
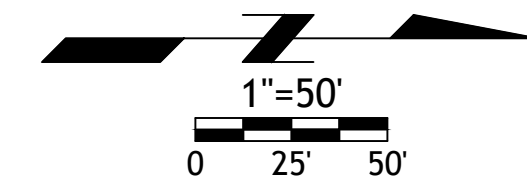
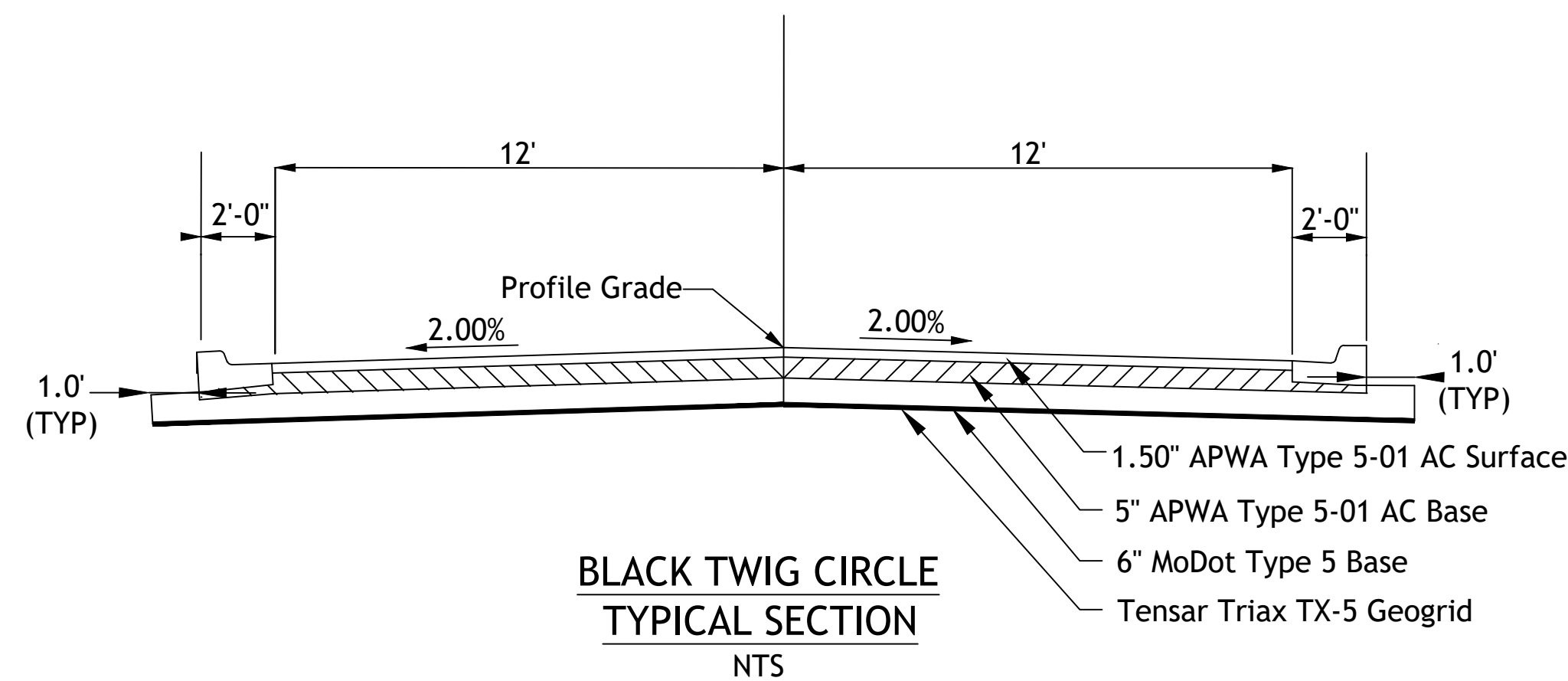
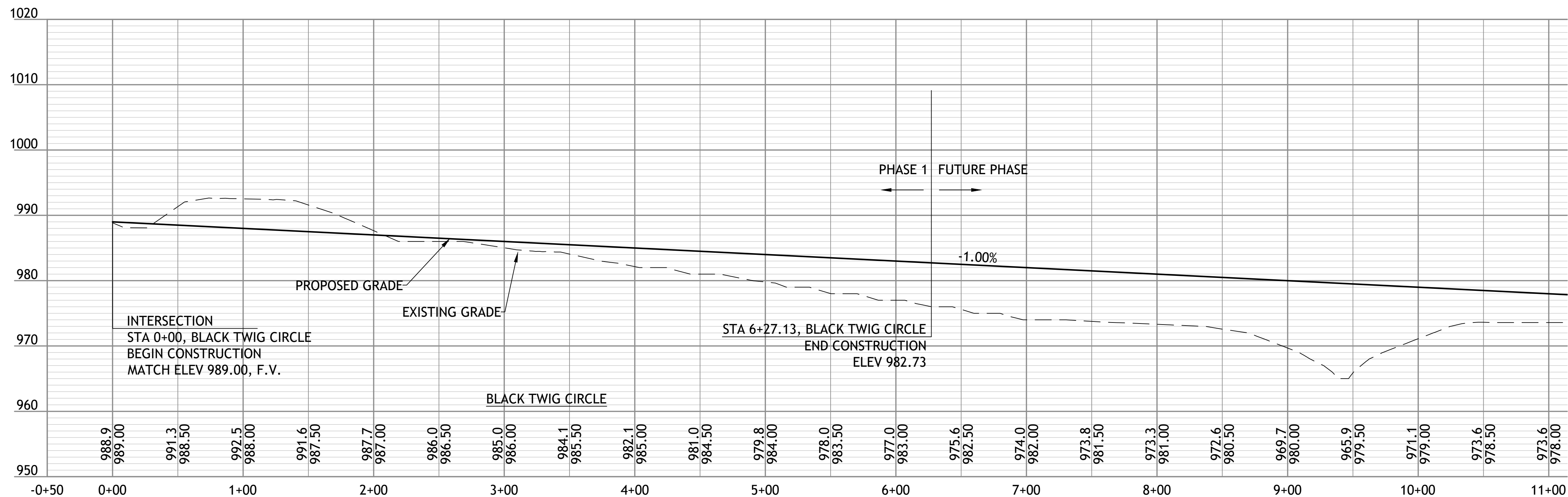
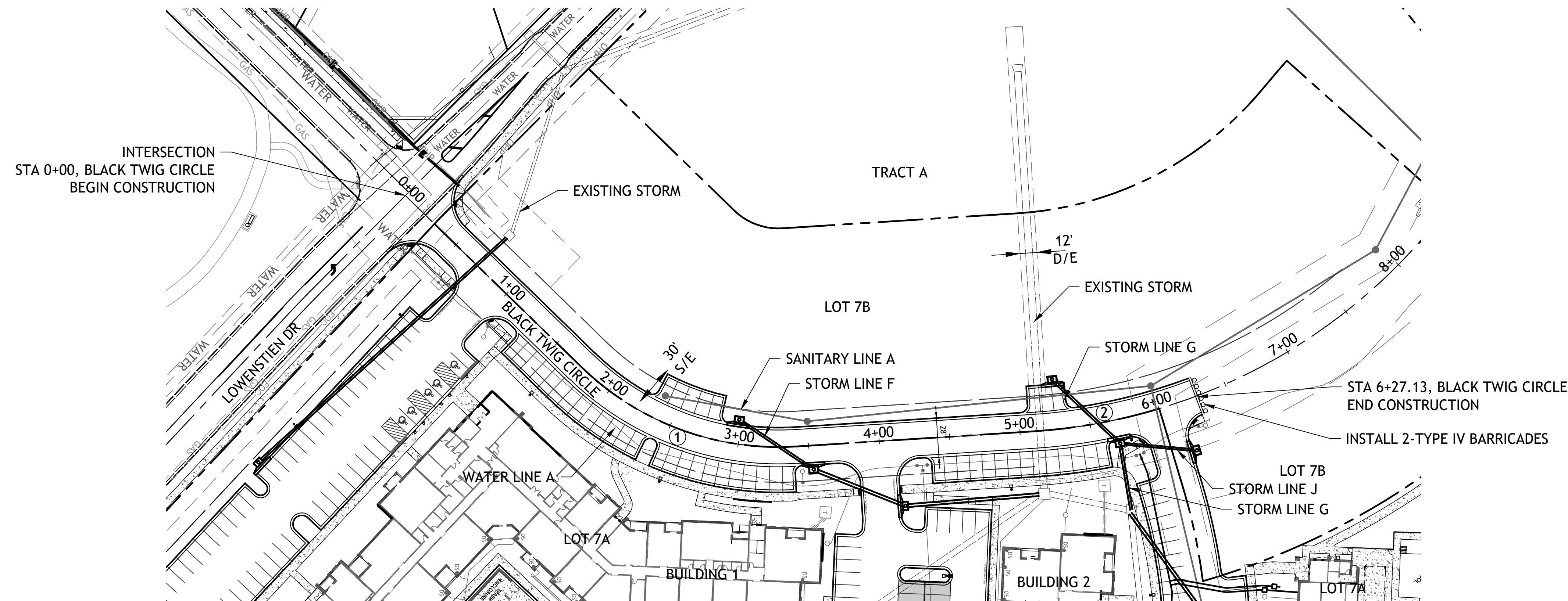
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 - R RAMP
 - L LANDING

1"=20'
0 10' 20'

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STREETS OF W. PRYOR
LOT 7A
LEES SUMMIT, MO.

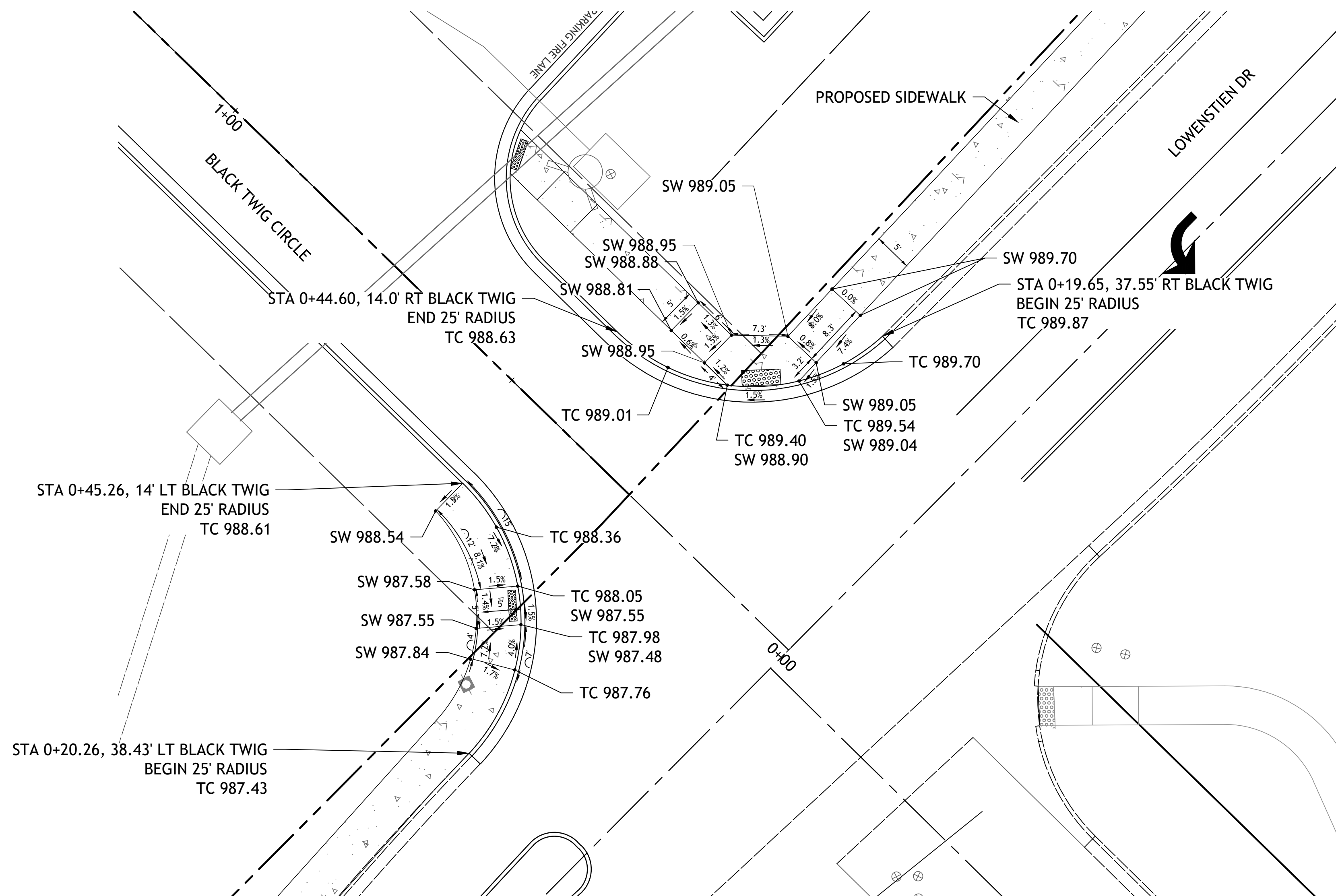
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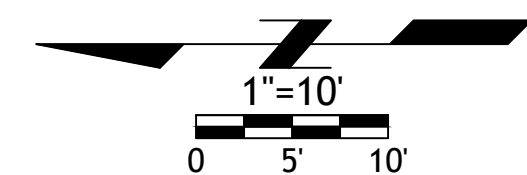
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

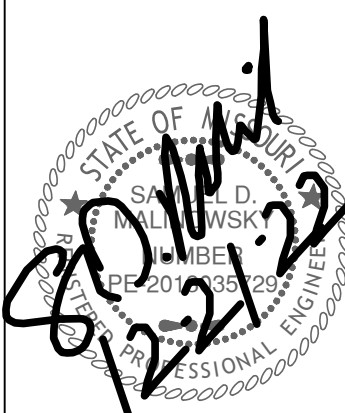
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INTERSECTION DETAIL
permit
5 MAY 2021



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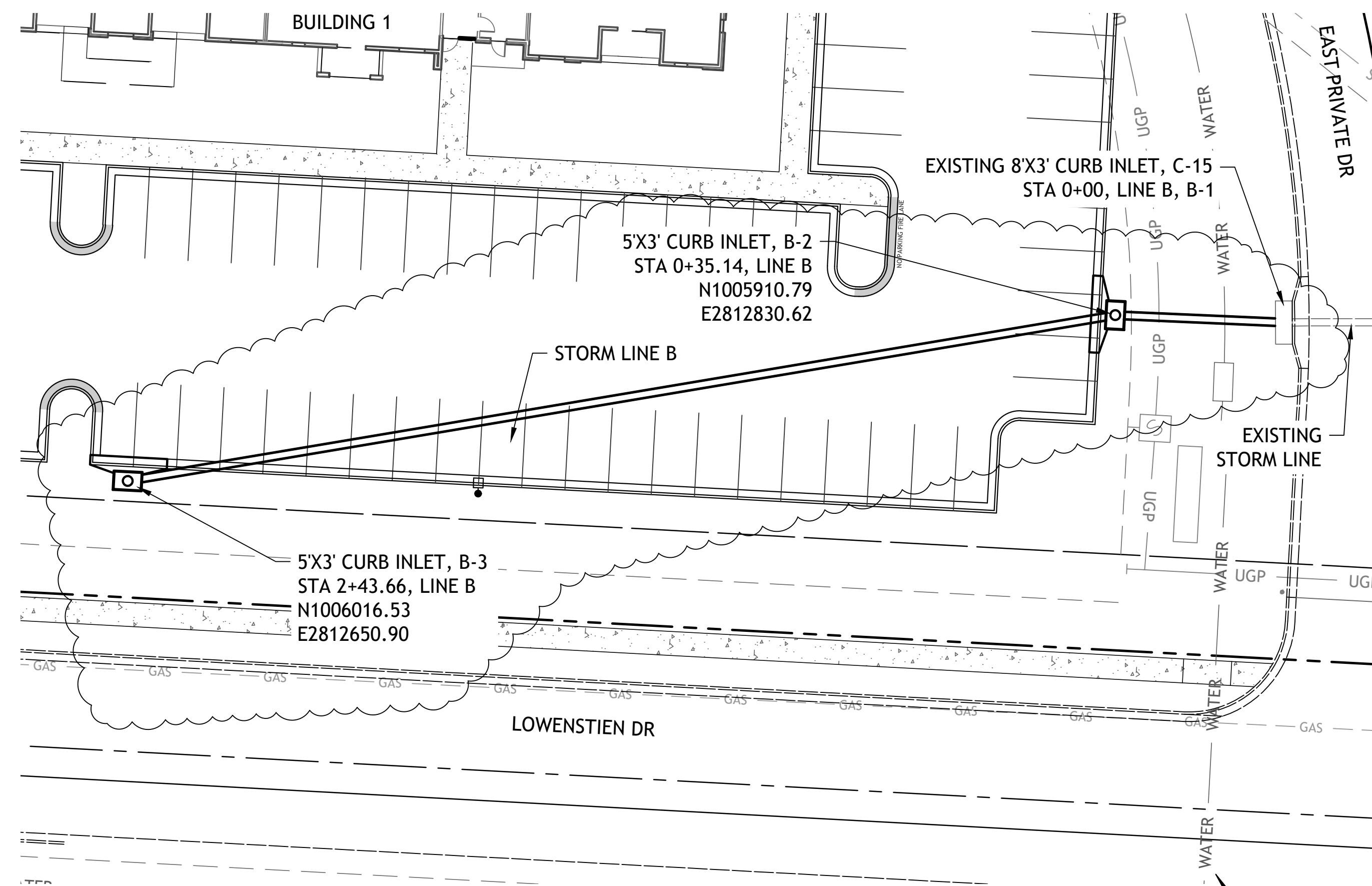
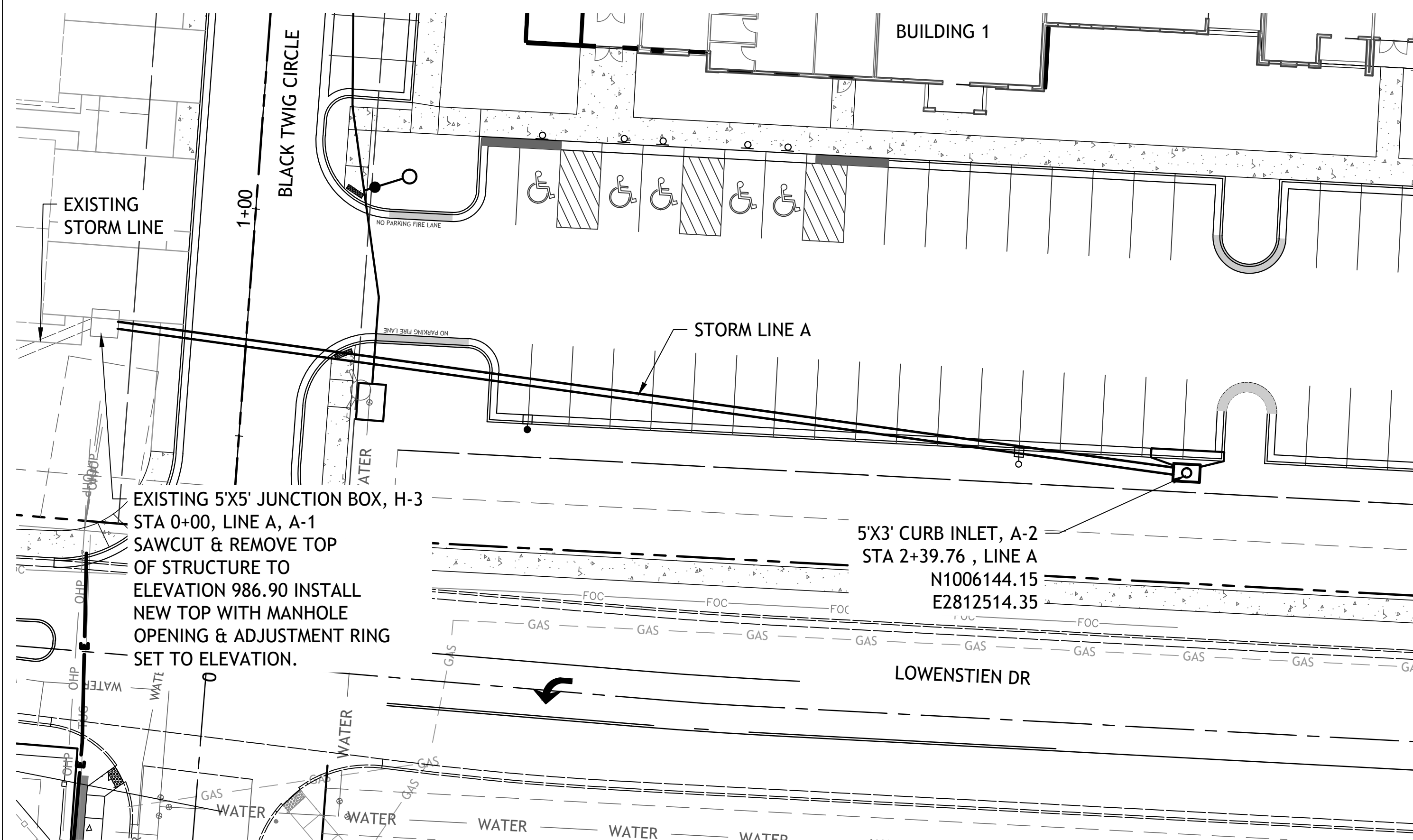
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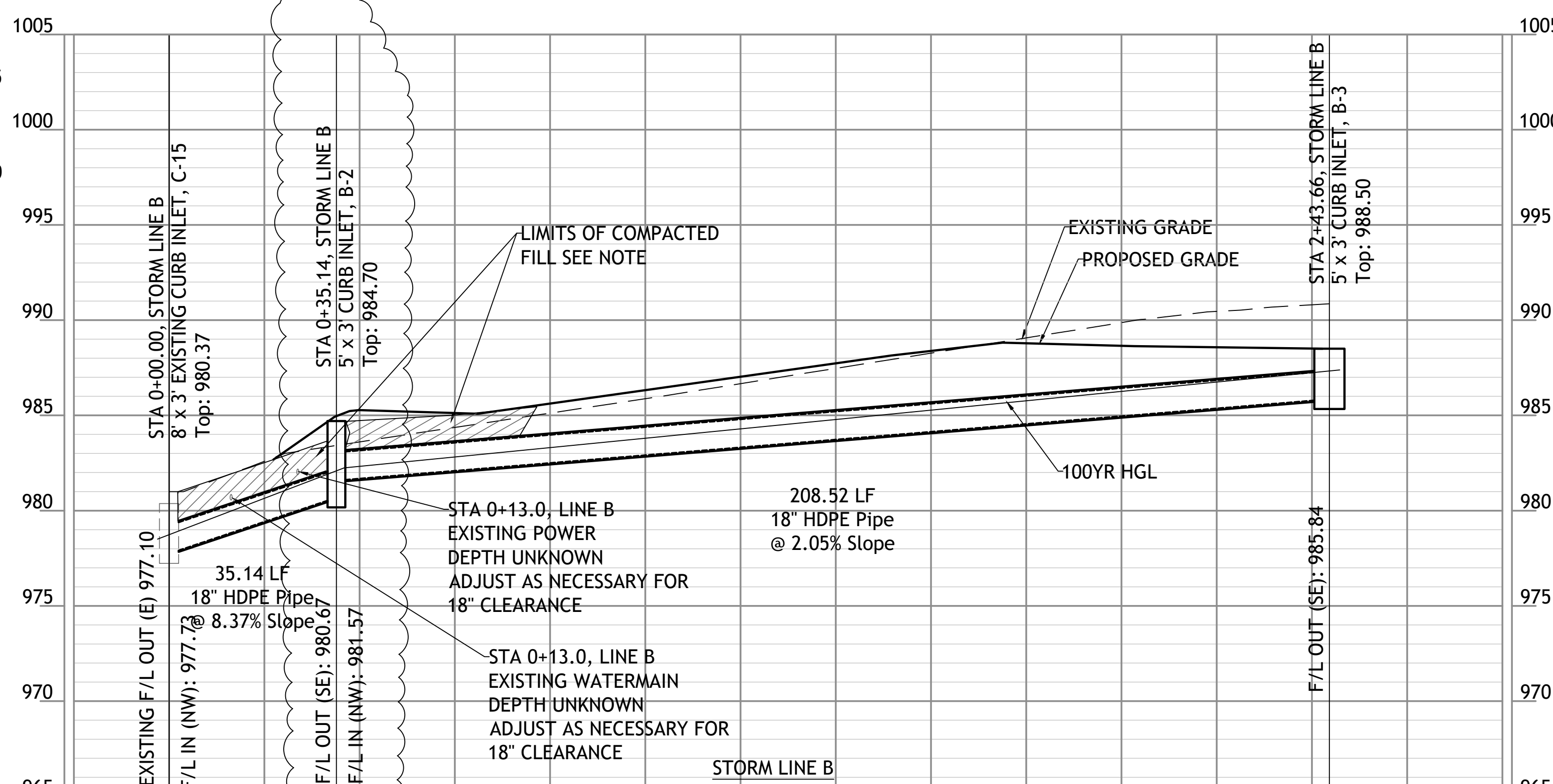
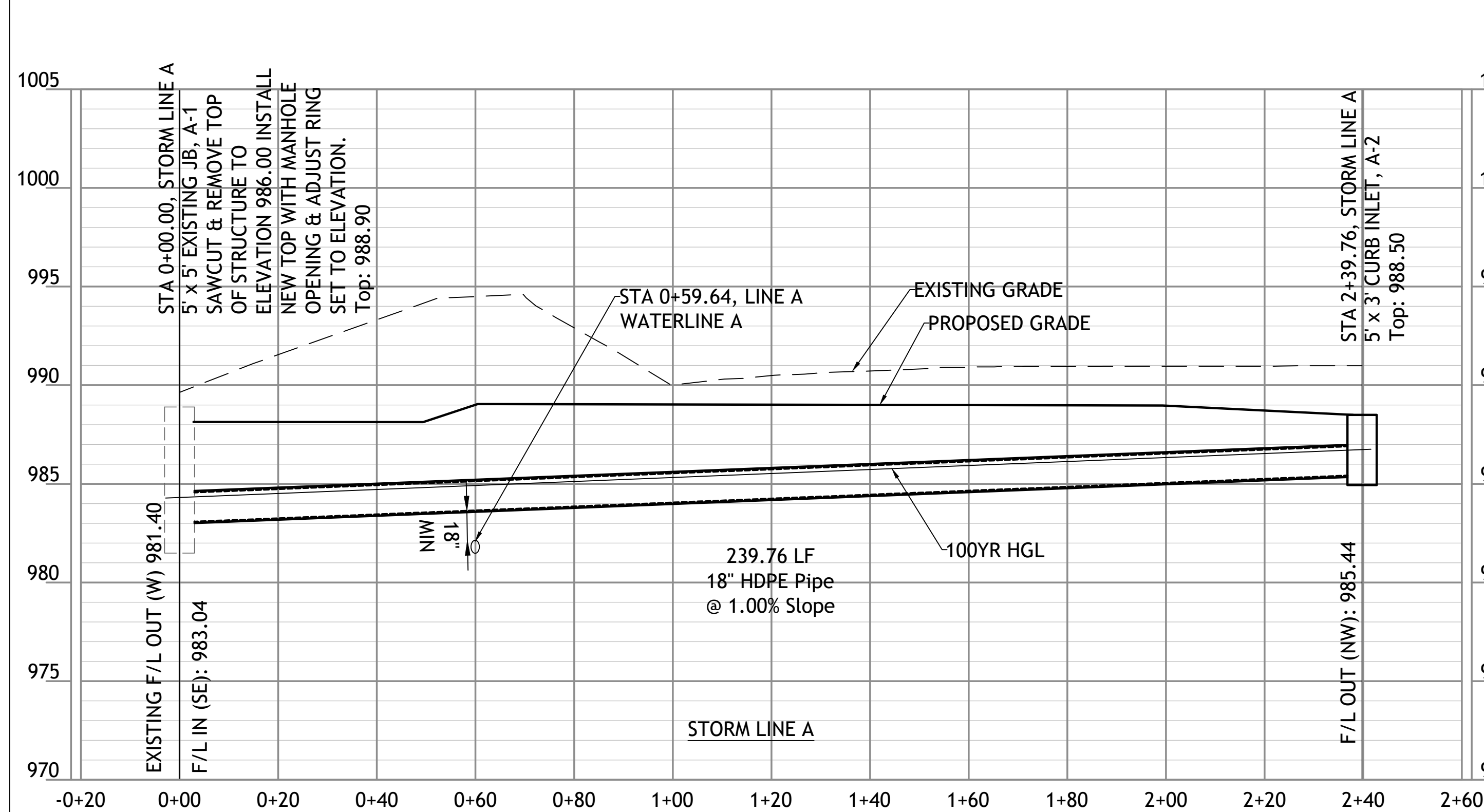
STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

sheet
C13.0
Civil
STORM LINE A & B
PLAN AND PROFILE
5 MAY 2021



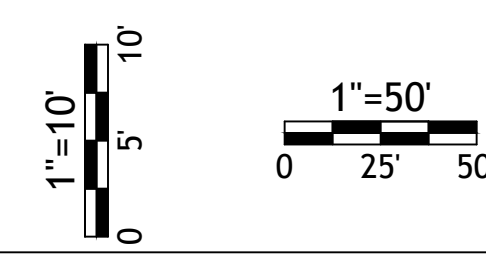
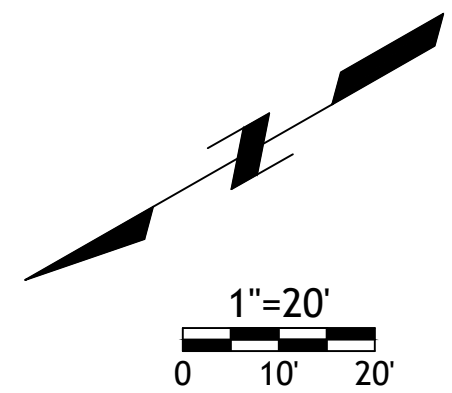
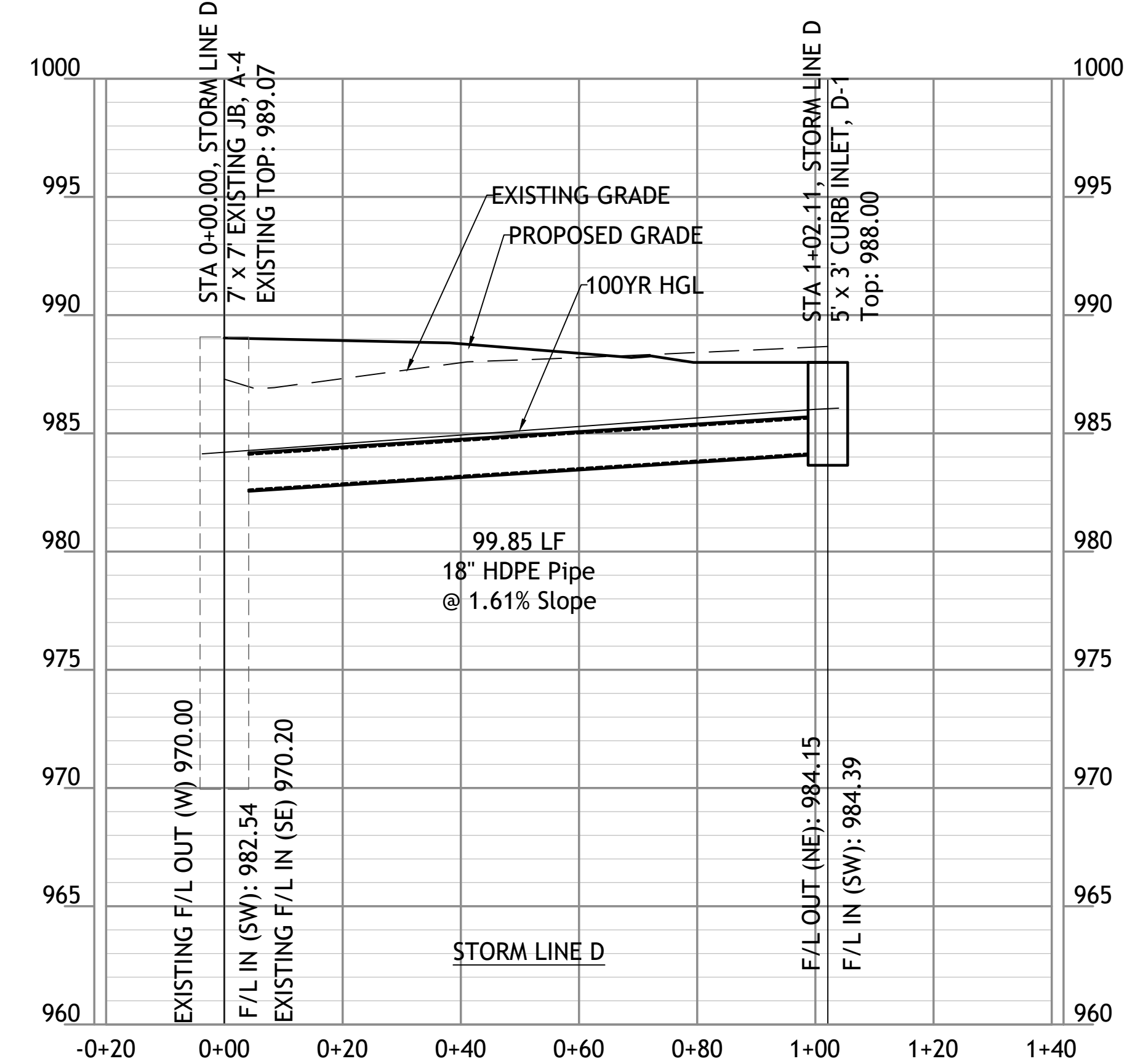
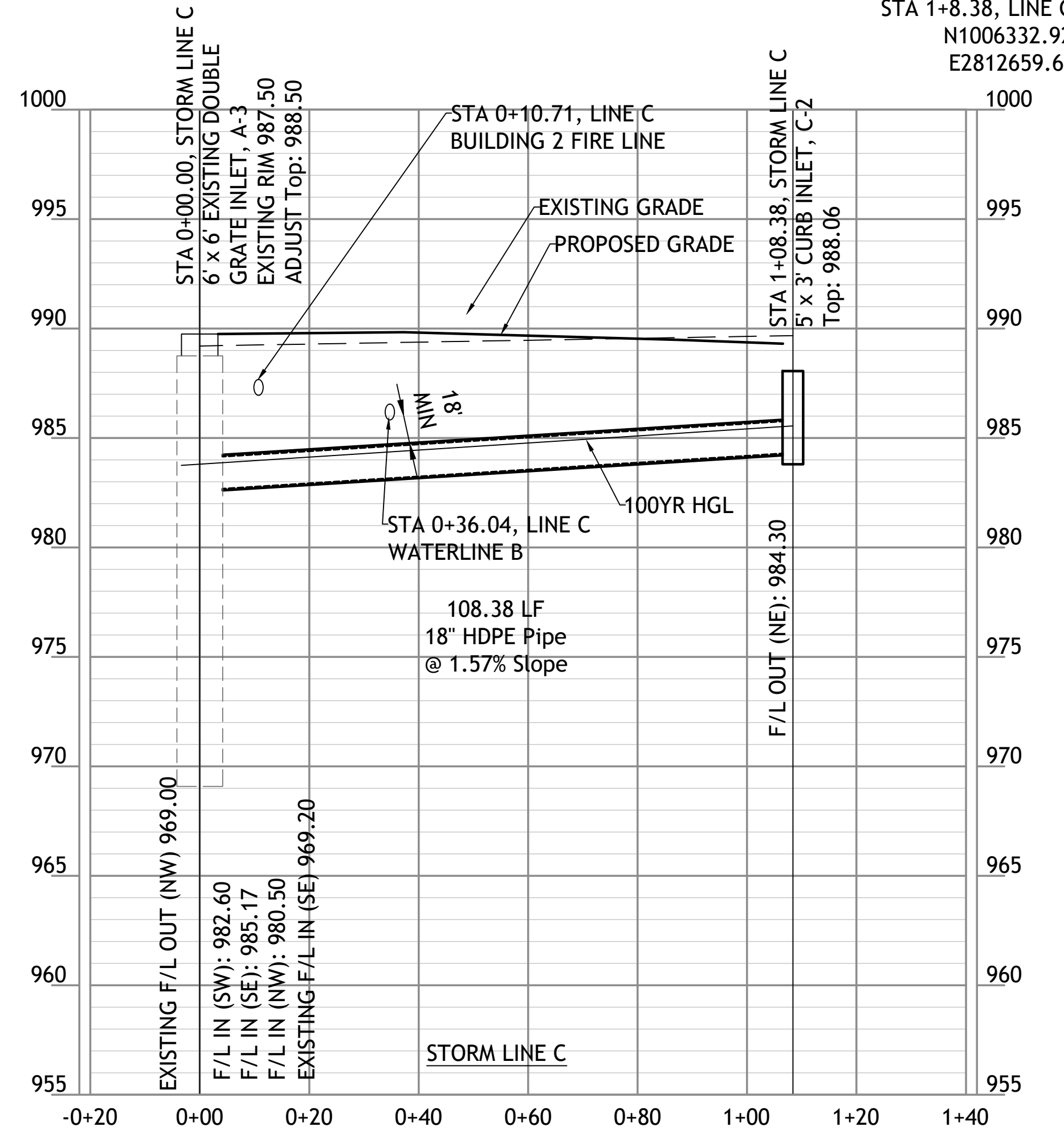
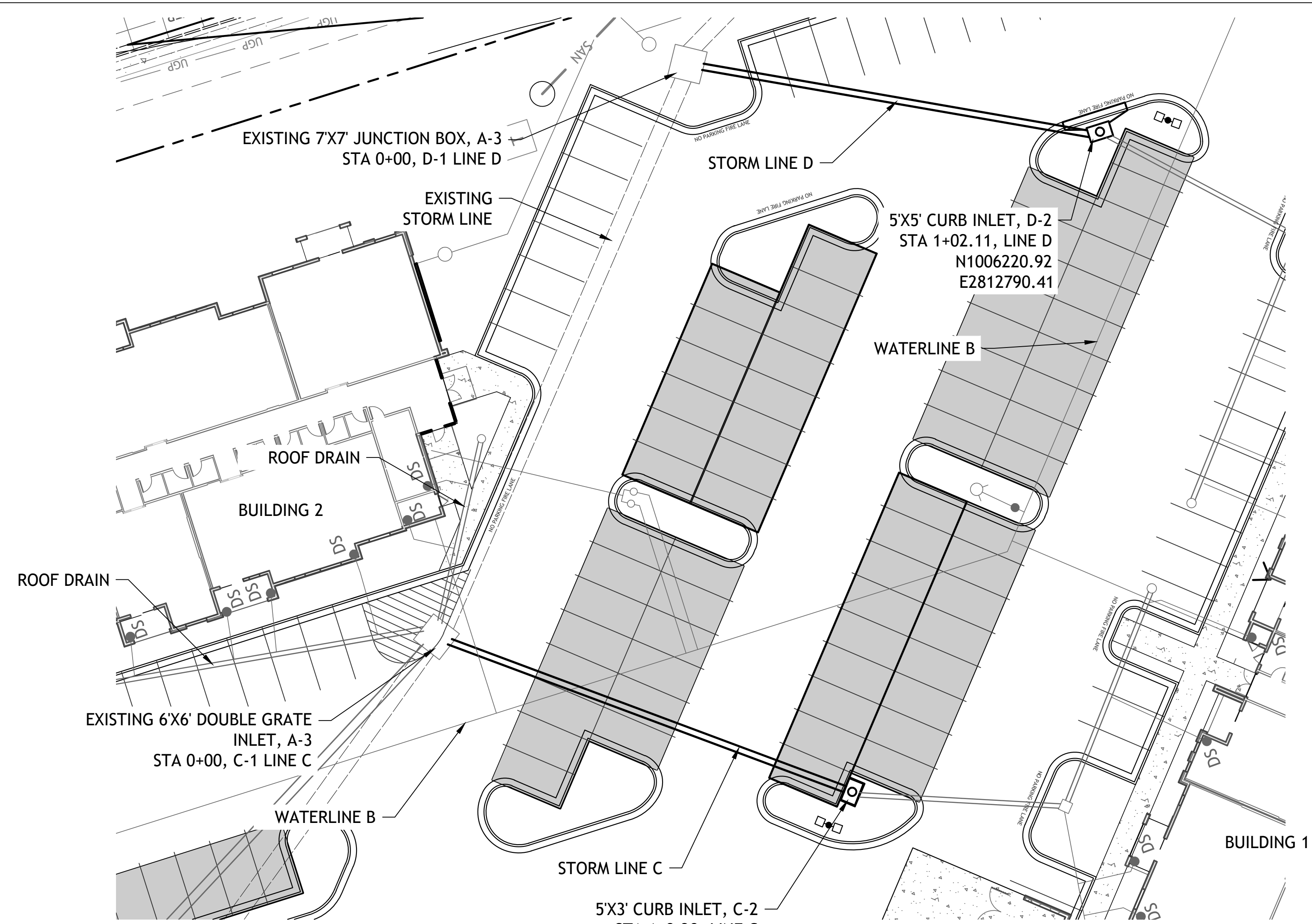
NOTE:
COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF
18" ABOVE THE TOP OF PIPE PRIOR TO INSTALLATION

1"=20'
0 10' 20'



1"=5'
0 2.5' 5'

1"=20'
0 10' 20'



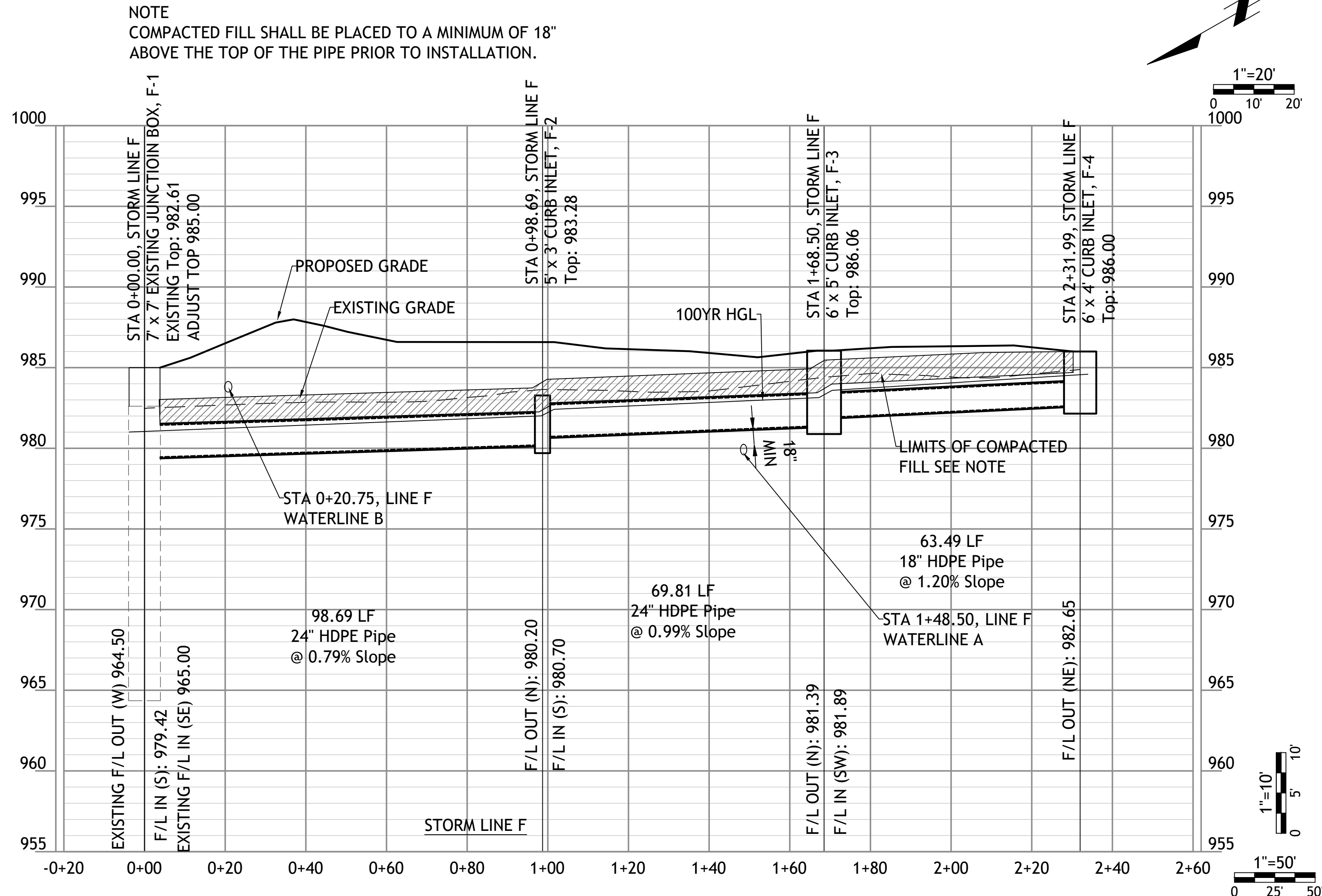
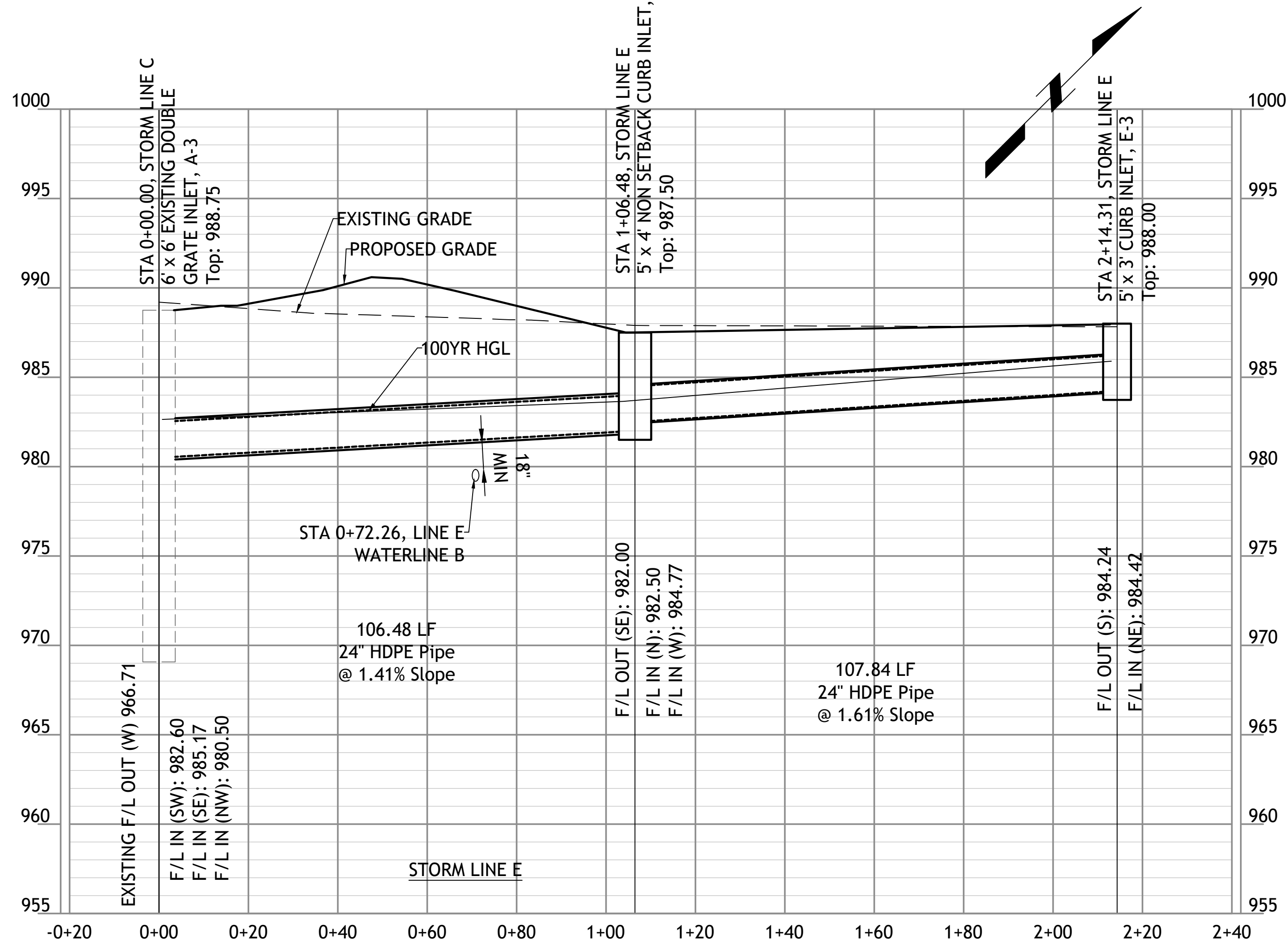
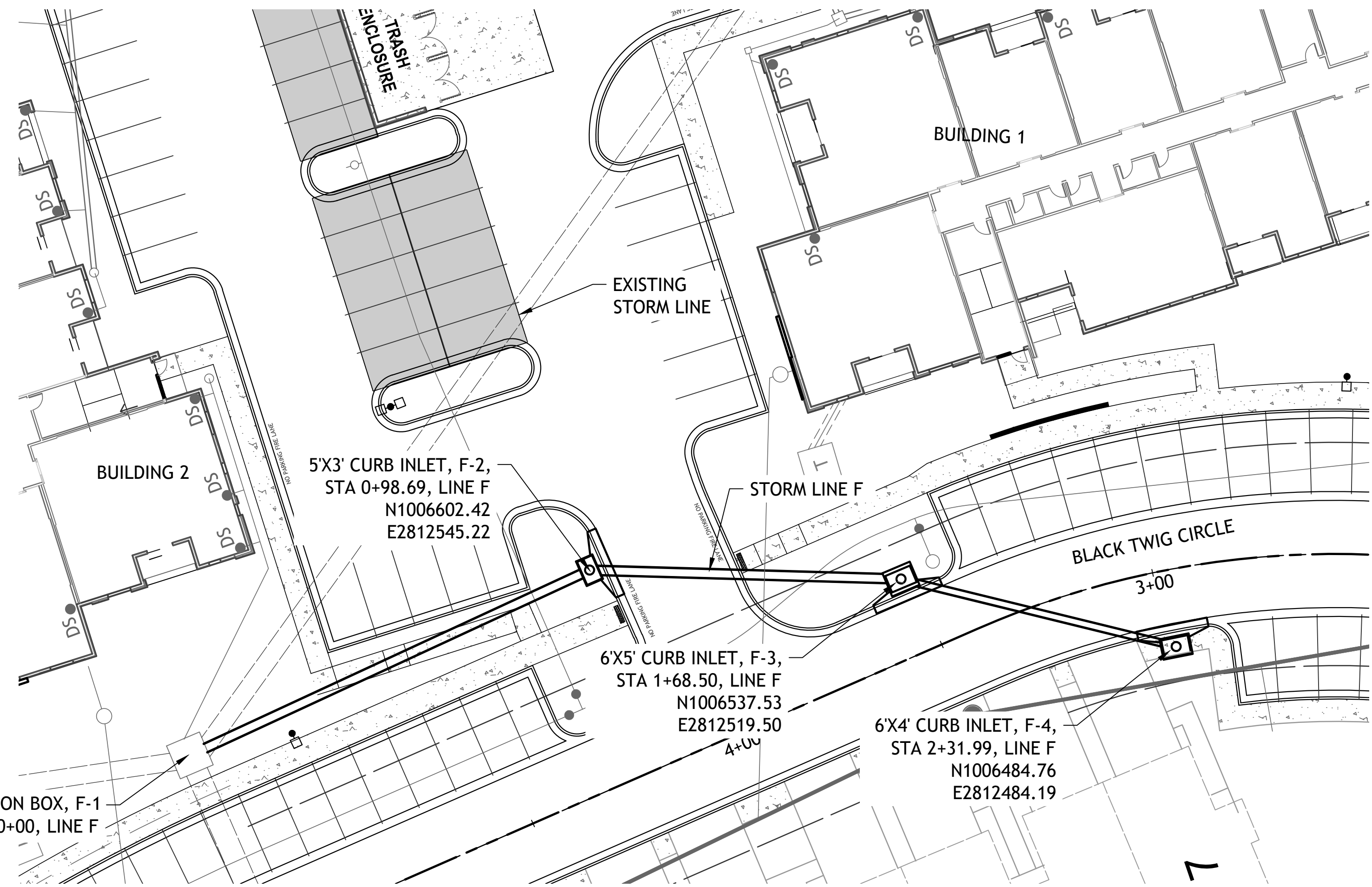
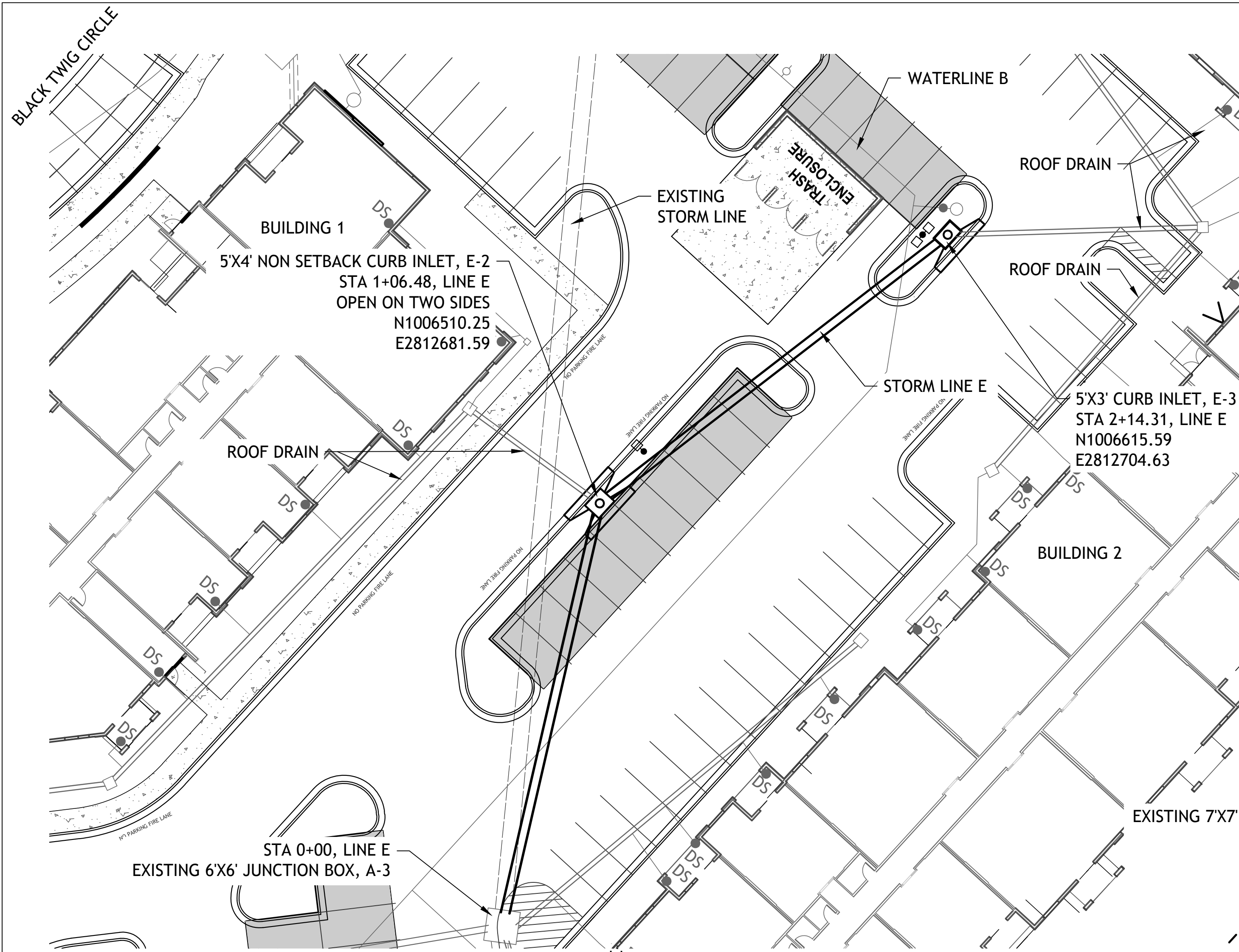
SM Engineering
SM E
5507 High Meadow Circle
Manhattan Kansas, 66503
smcivilengr@gmail.com
785.341.9747

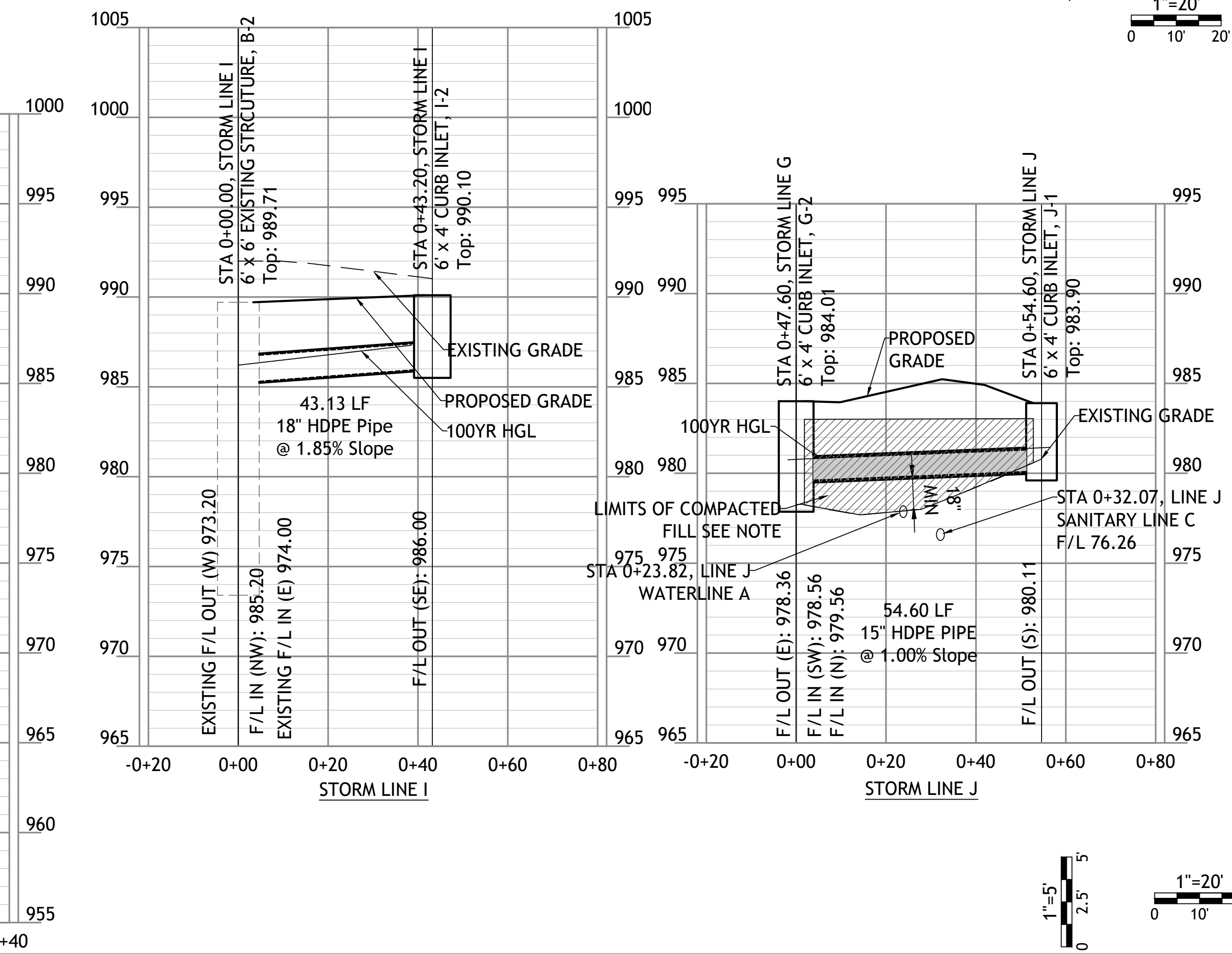
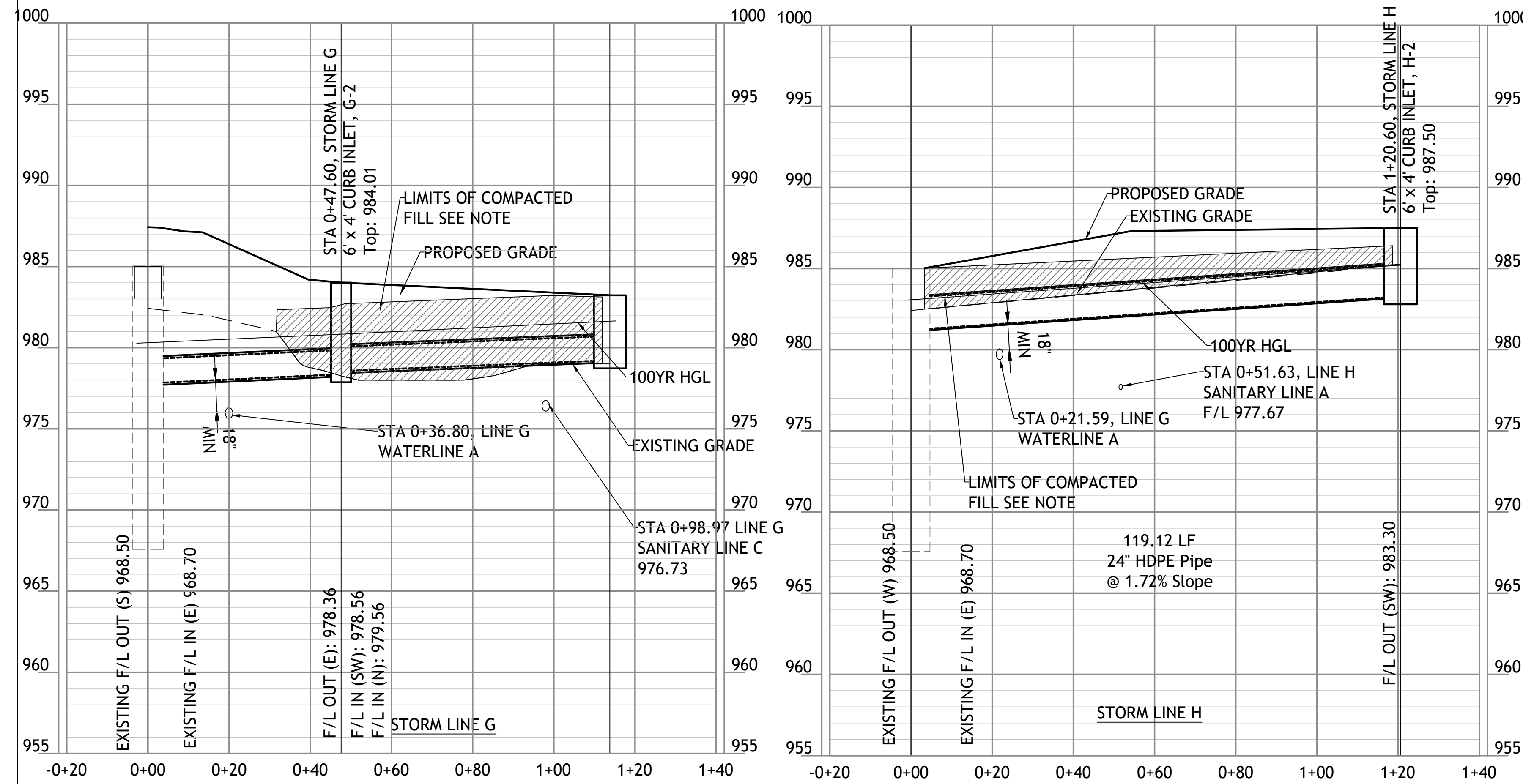
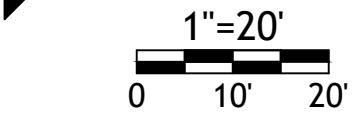
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9-7-22 REVISED LIGHT POLES
12-21-22 CAR PORTS

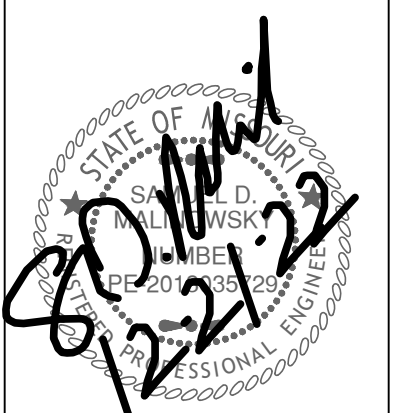
STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

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C14.0
Civil
STORM LINE C & D
PLAN AND PROFILE
perm
5 MAY 2021





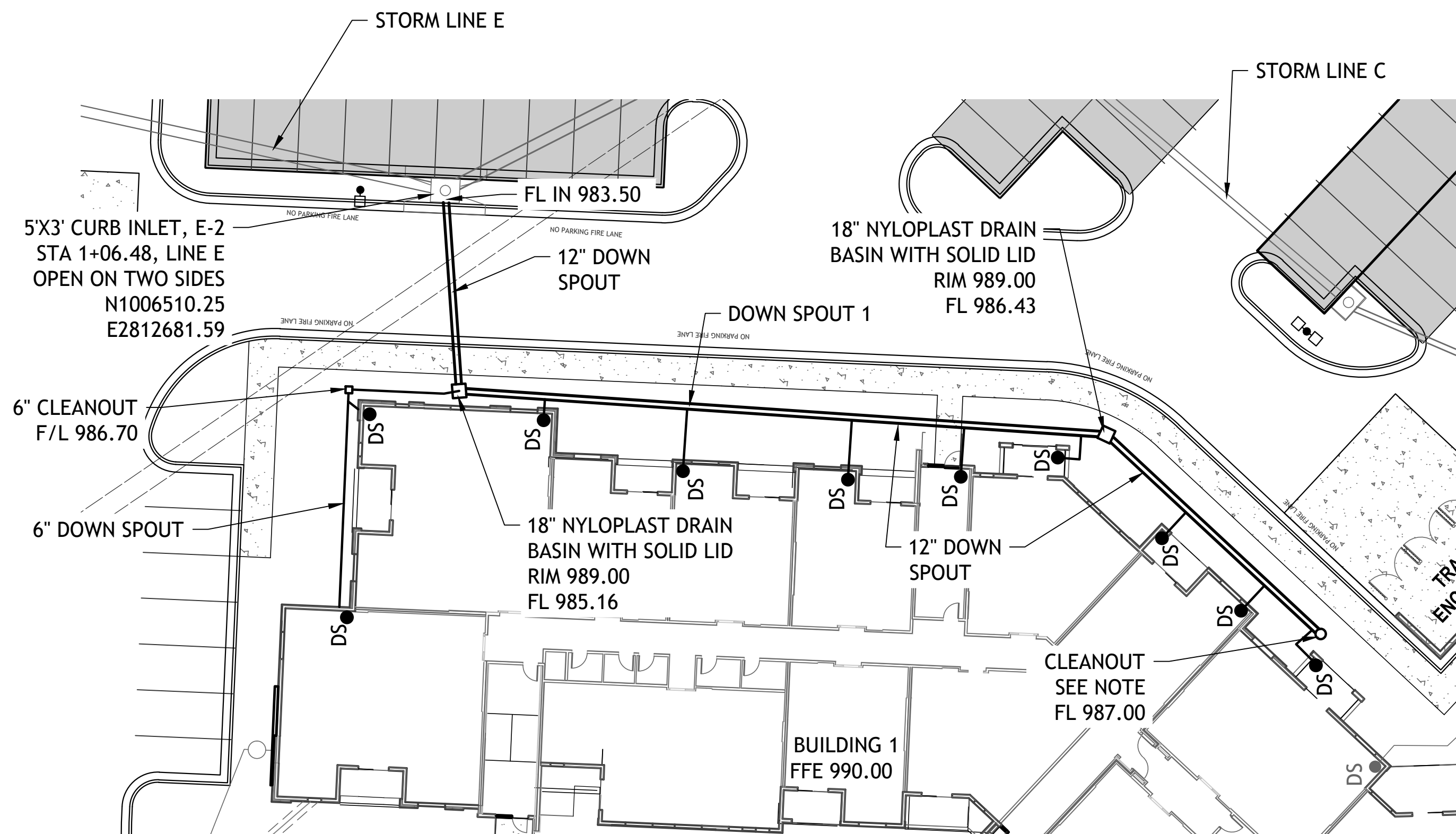
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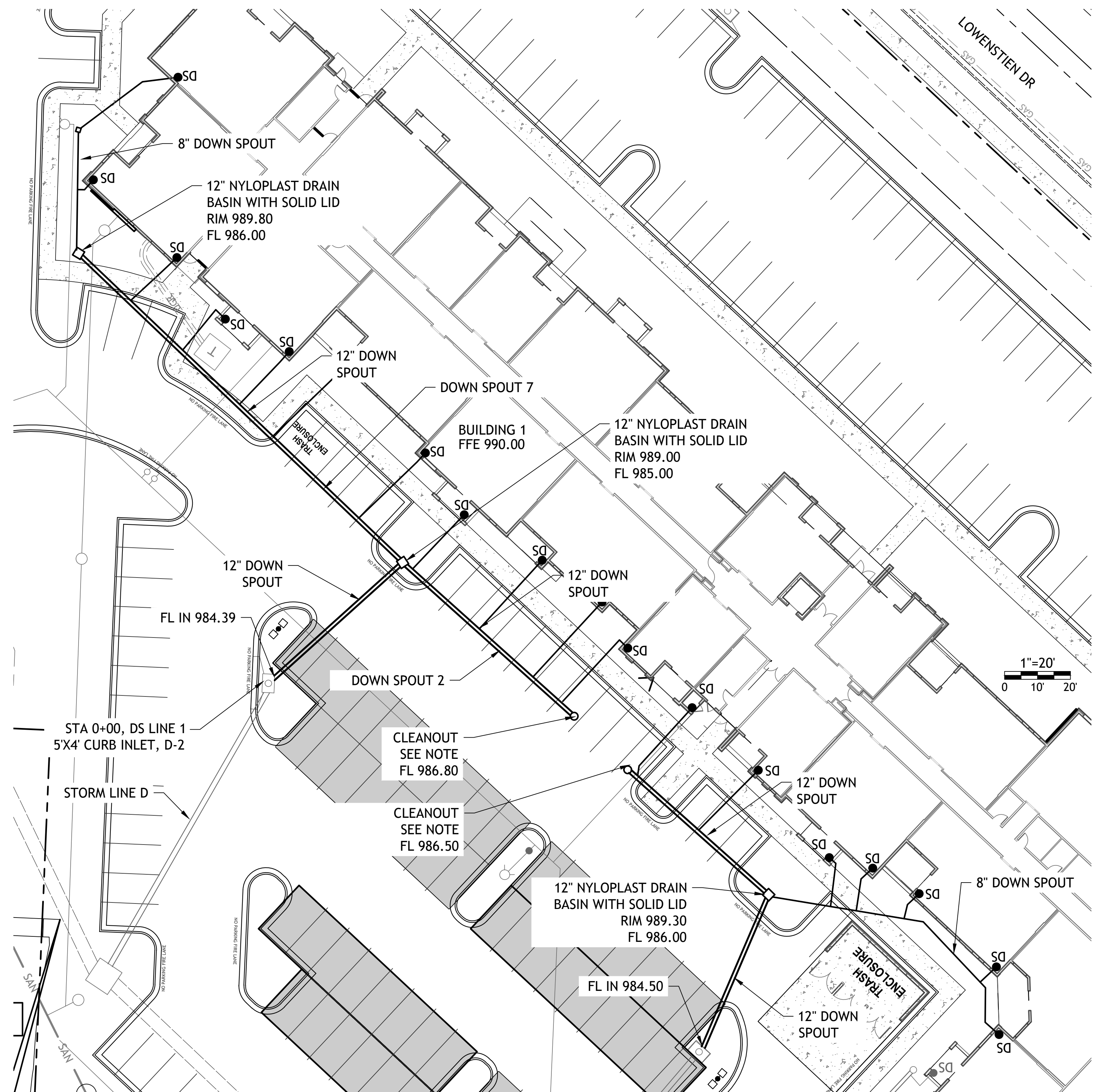
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

sheet
C17.0
Civil
ROOF DRAINS
permit
5 MAY 2021

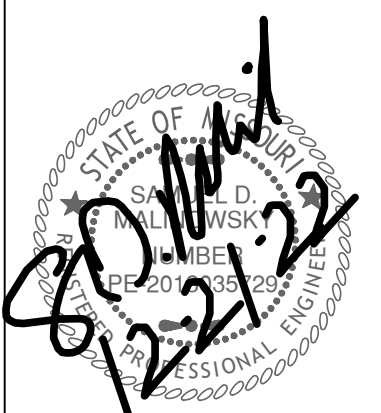


CLEANOUT NOTE
INSTALL 12" 90° BEND WITH 12" TO 6" REDUCER
INSTALL 6" CLEANOUT PER DETAIL



1"=20'
0 10' 20'
DS = DOWN SPOUT

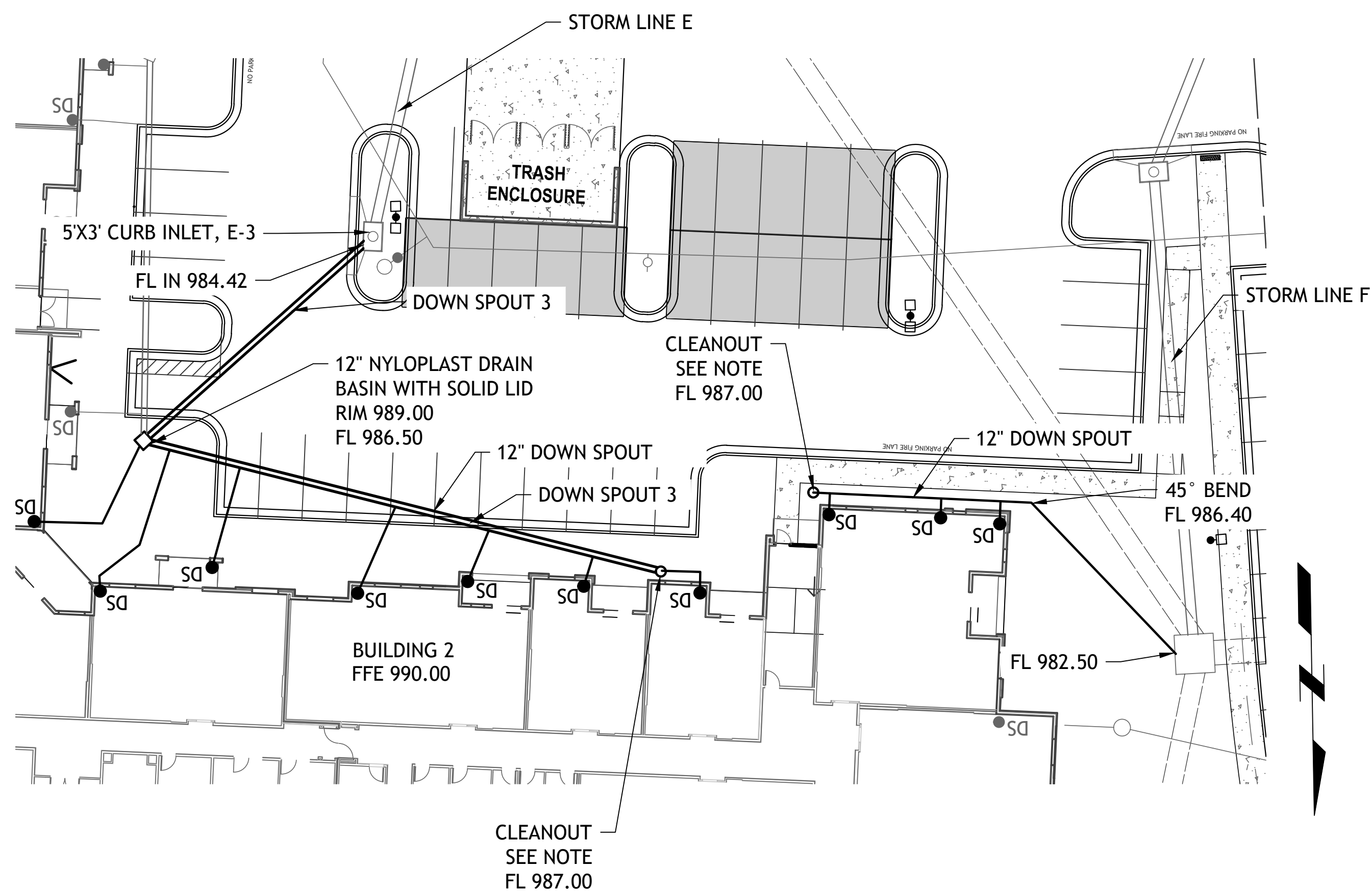
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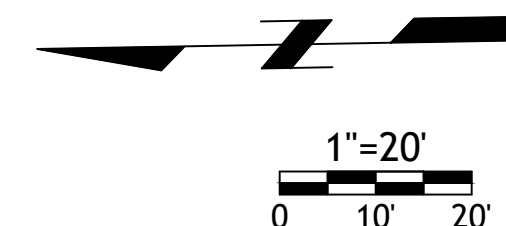
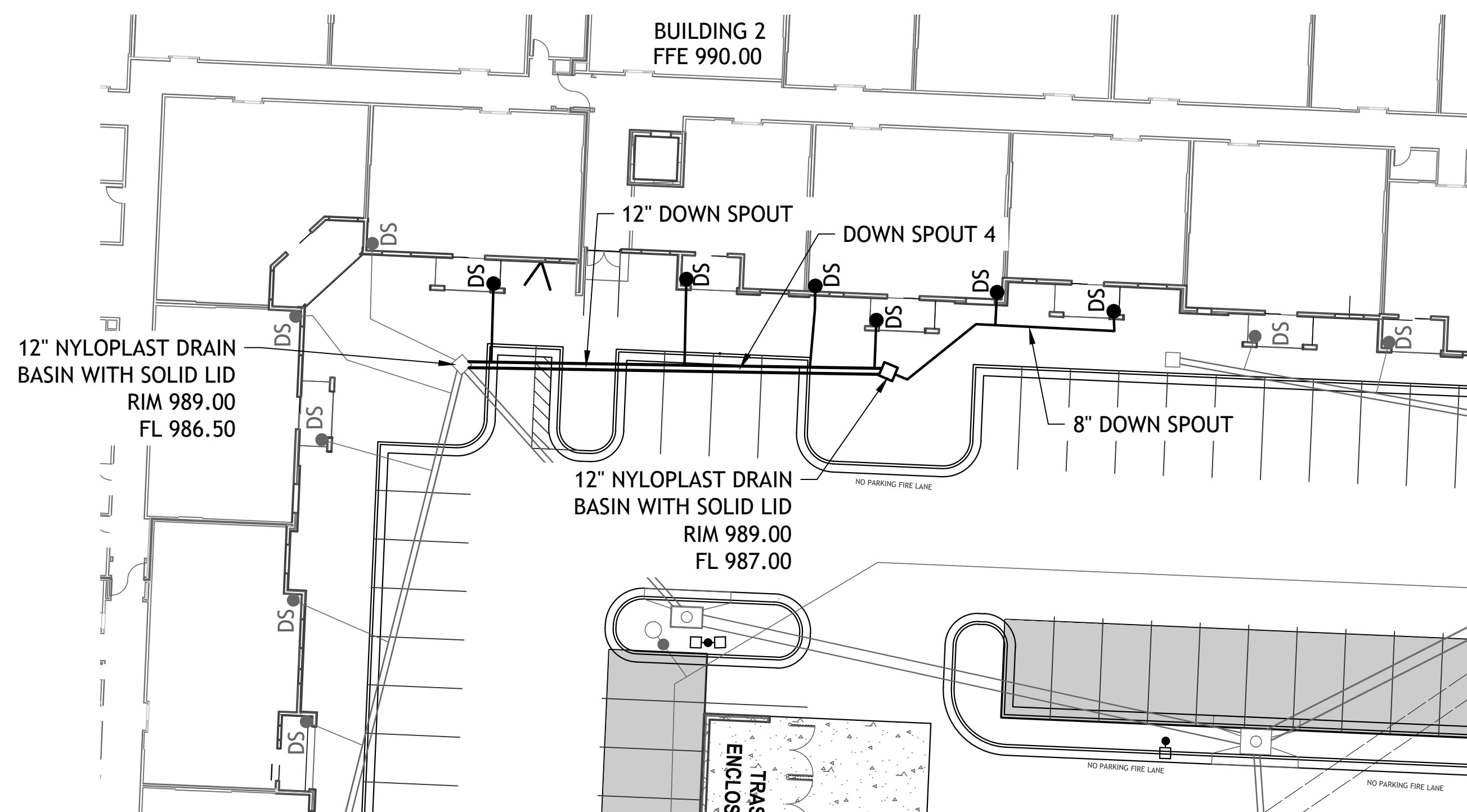
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

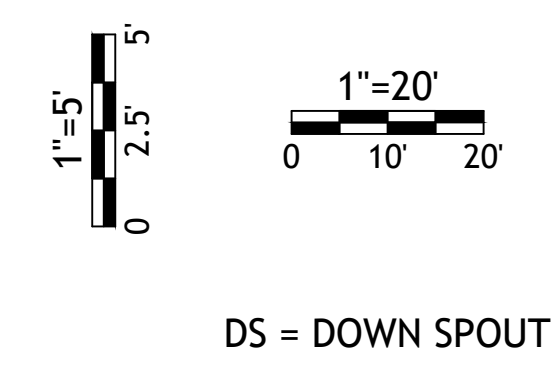
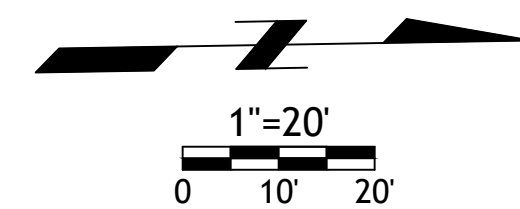
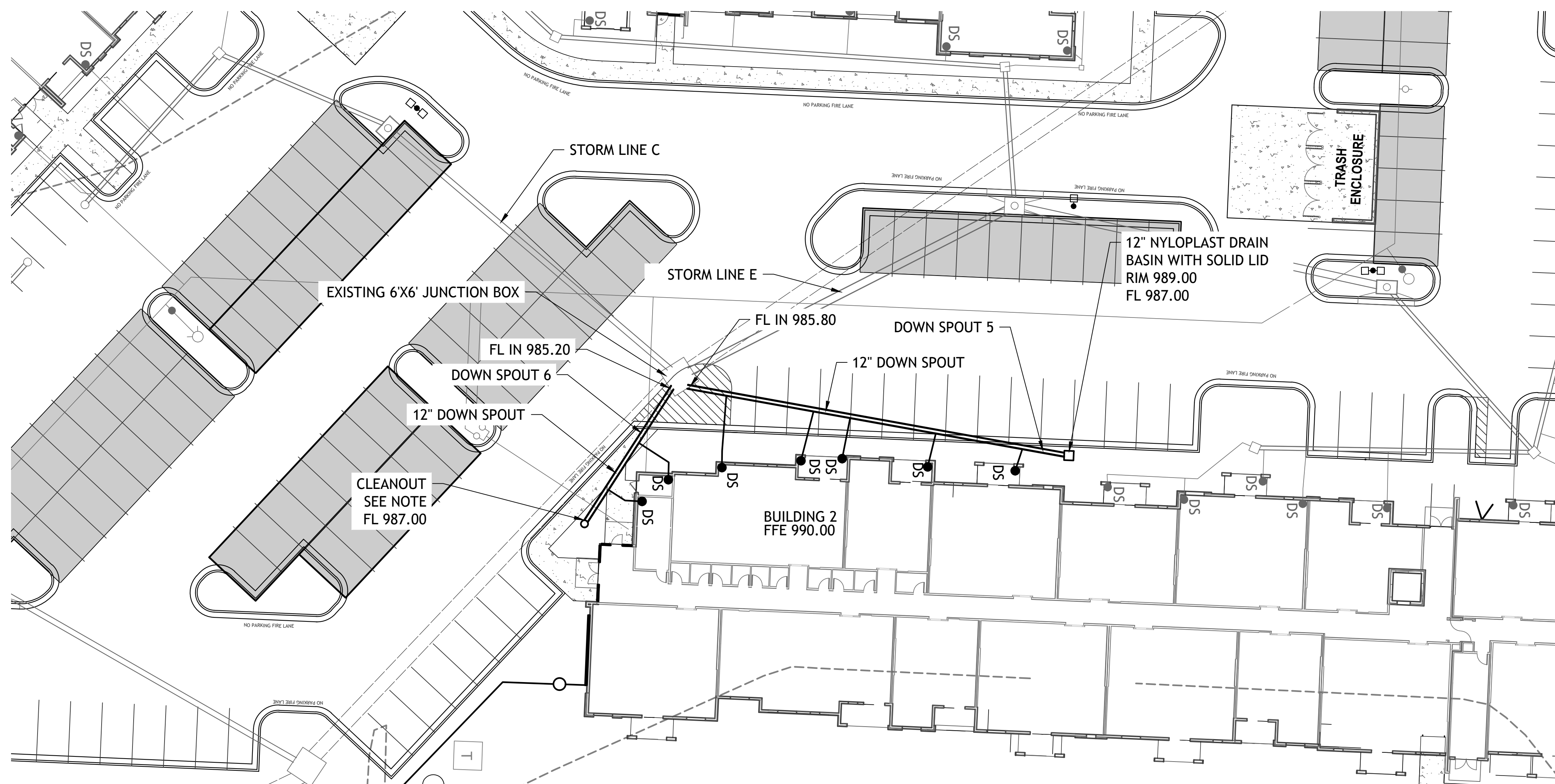
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ROOF DRAINS
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5 MAY 2021



CLEANOUT NOTE
INSTALL 12" 90° BEND WITH 12" TO 6" REDUCER
INSTALL 6" CLEANOUT PER DETAIL



DS = DOWN SPOUT



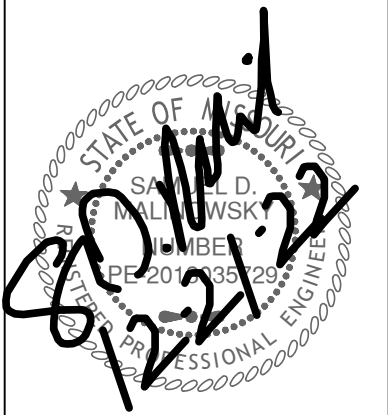
SM Engineering
SME
5507 High Meadow Circle
Manhattan Kansas, 66503
smcivilengr@gmail.com
785.341.9747

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6-22-21 CITY COMMENTS
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12-21-22 CAR PORTS

STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

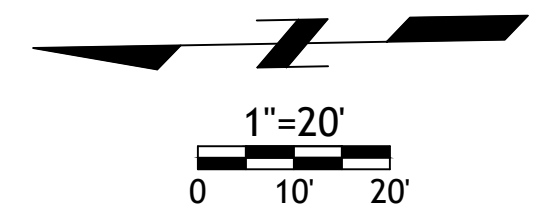
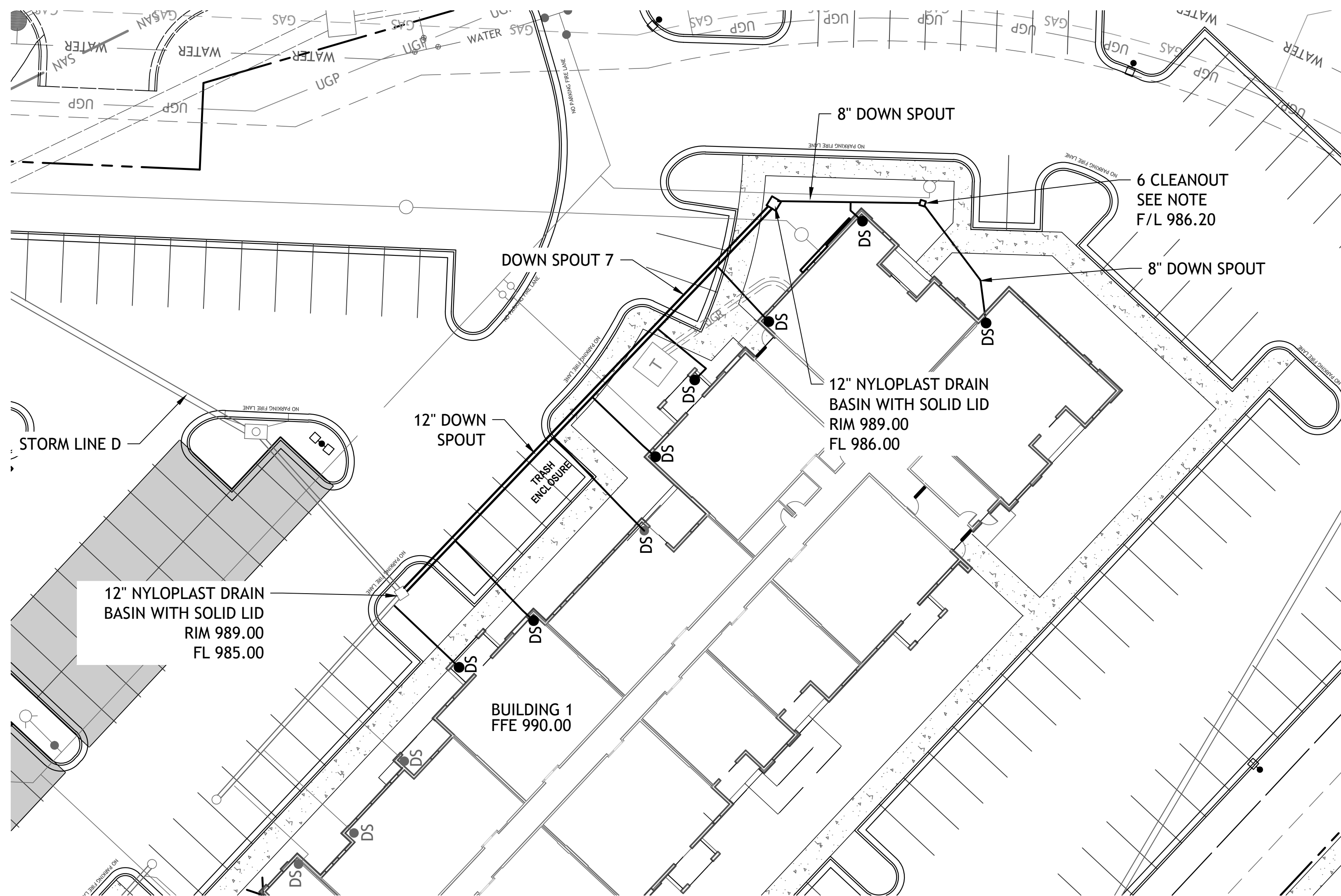
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5 MAY 2021

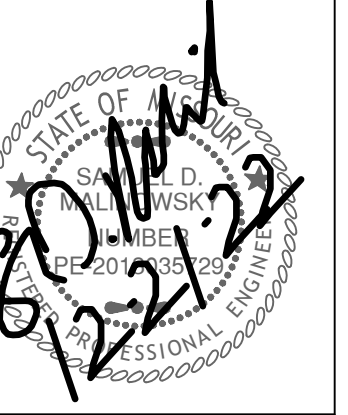


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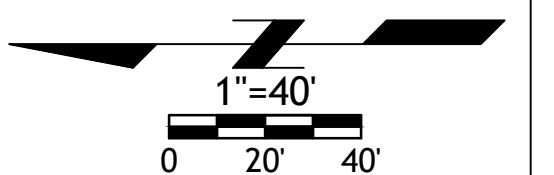
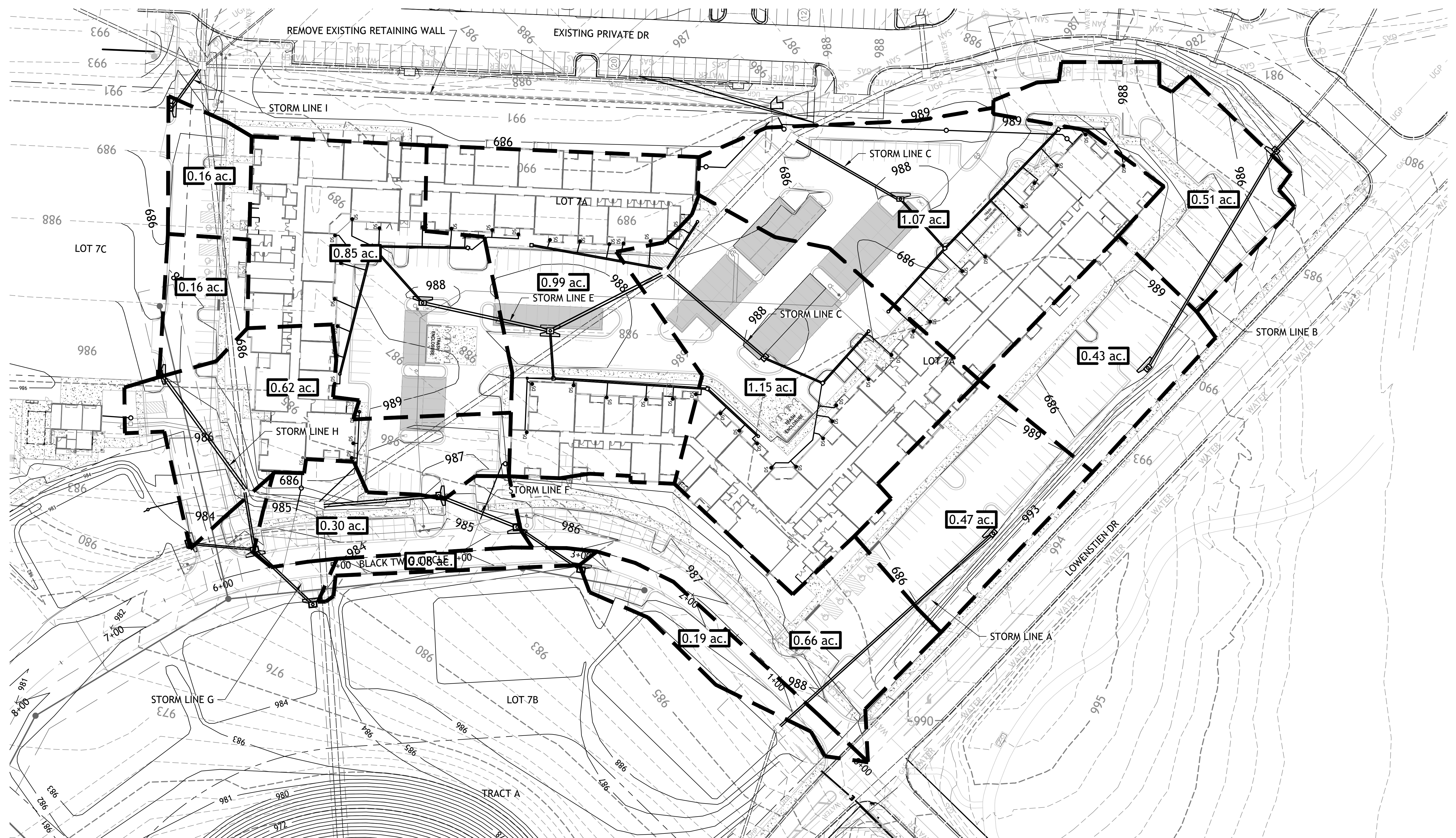
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5 MAY 2021



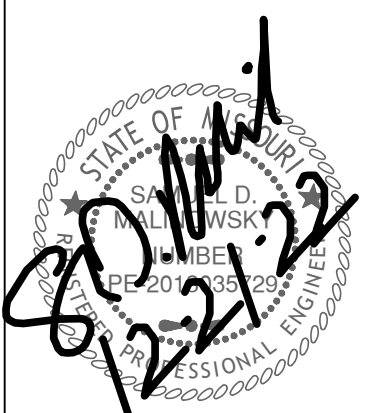


STREETS OF W. PRYOR
LOT 7A
LEES SUMMIT, MO.

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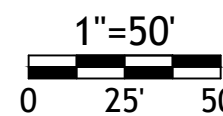
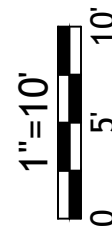
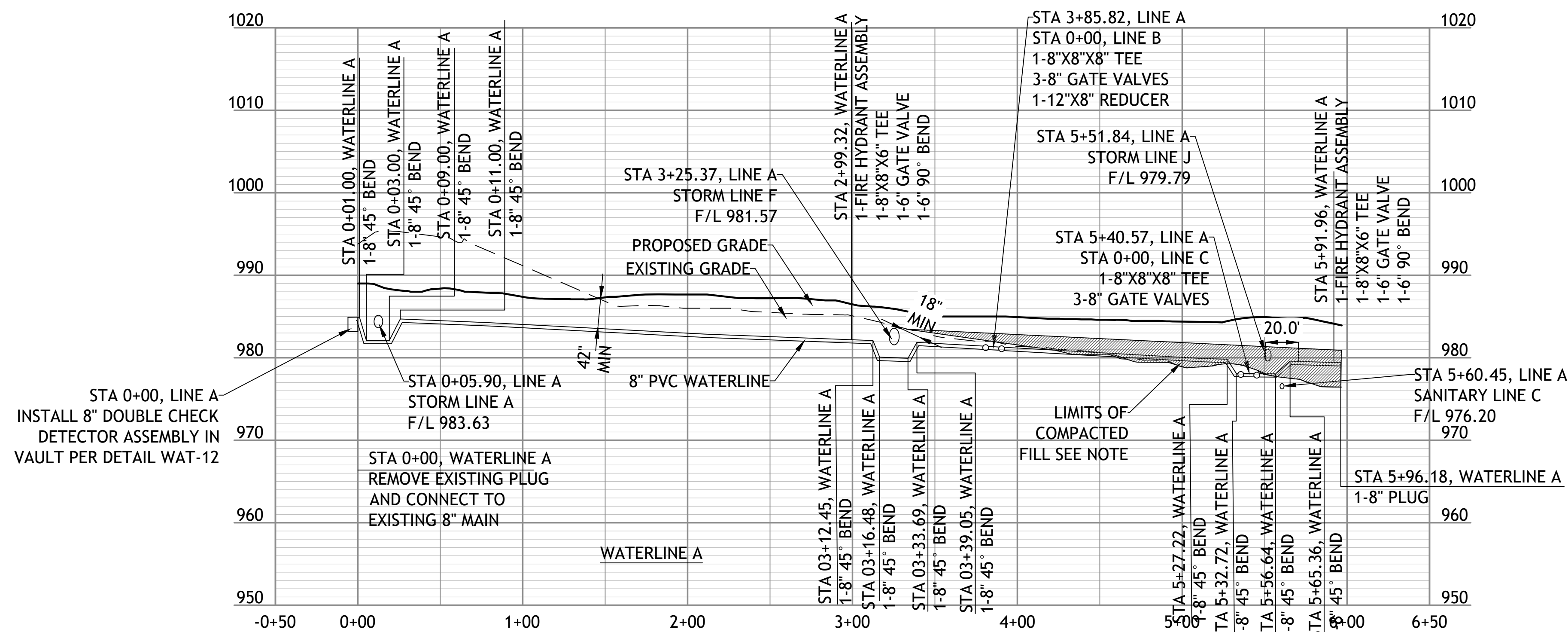
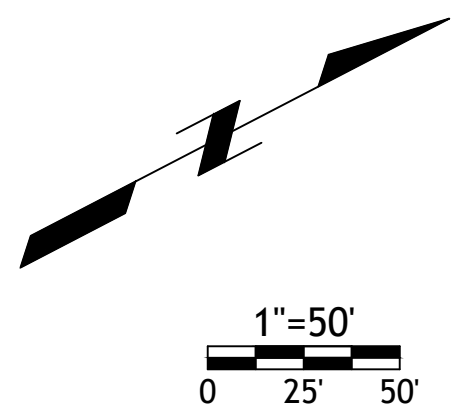
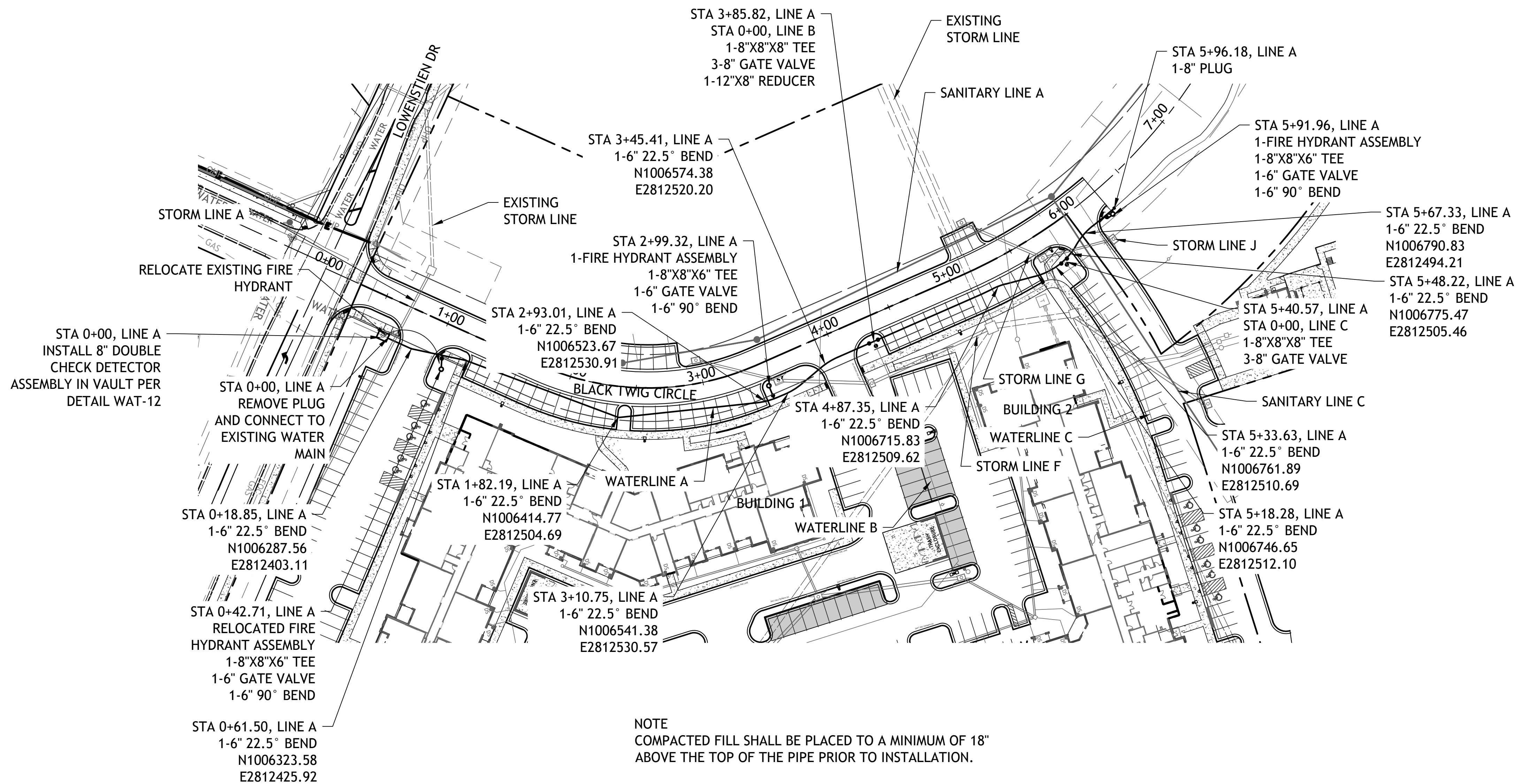
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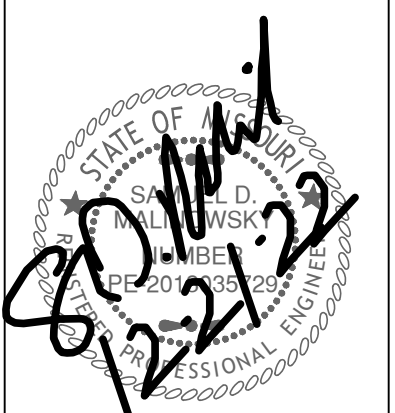


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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

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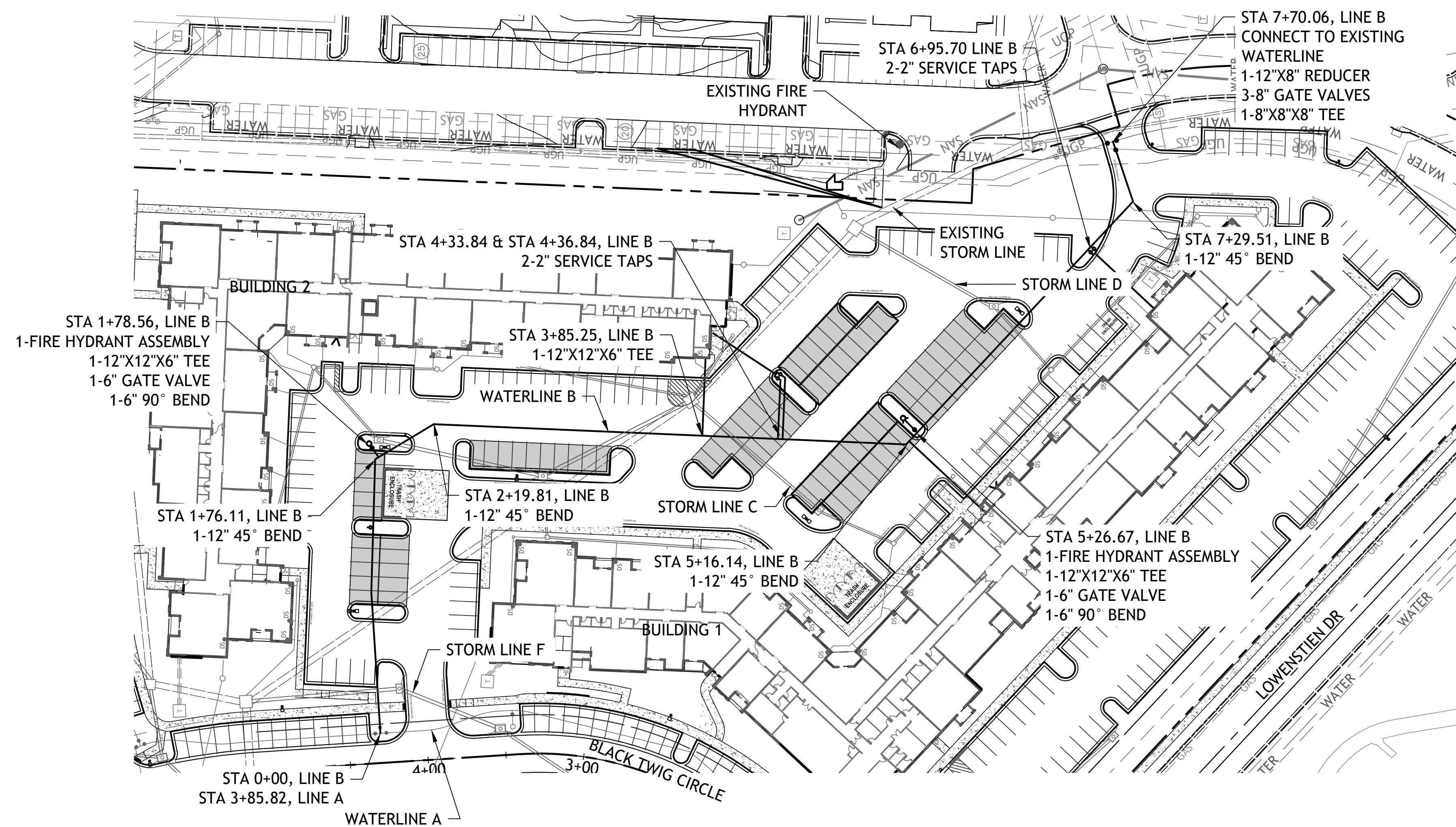




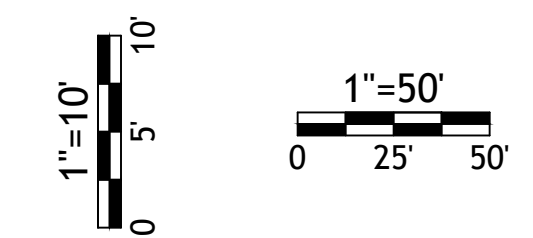
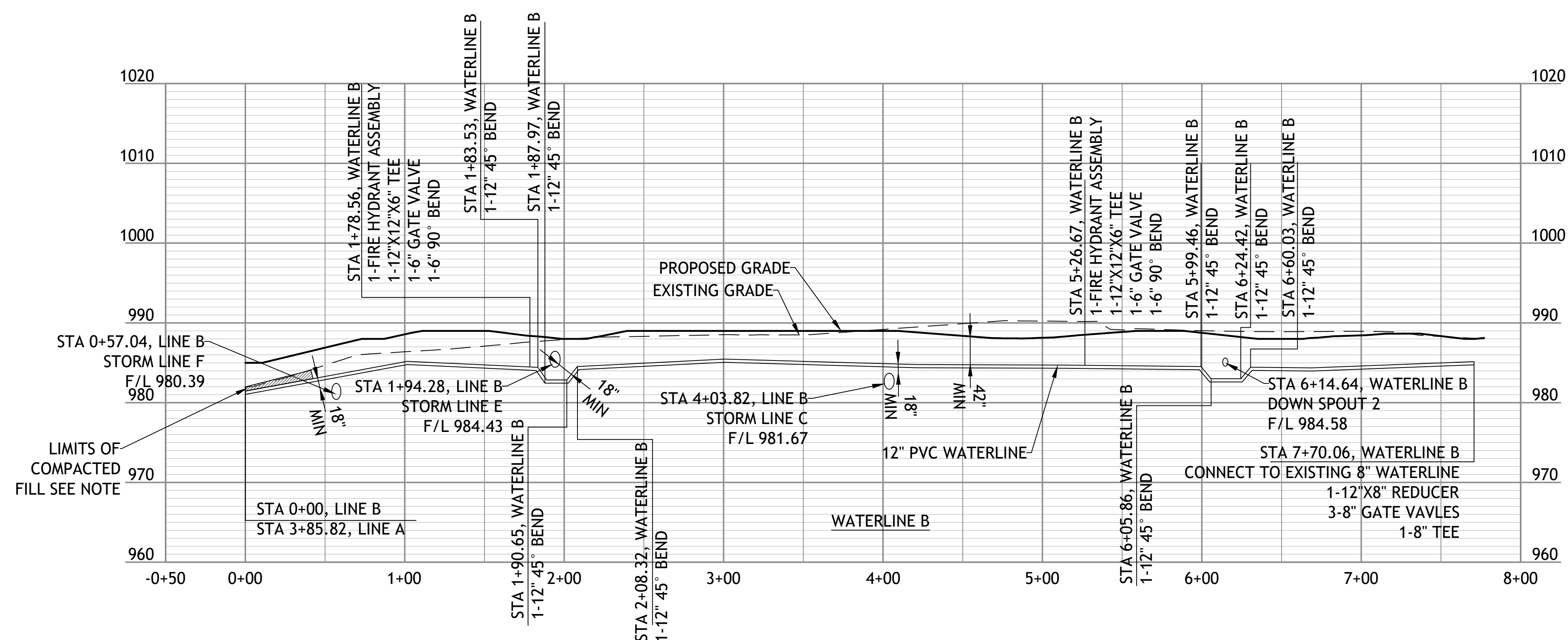
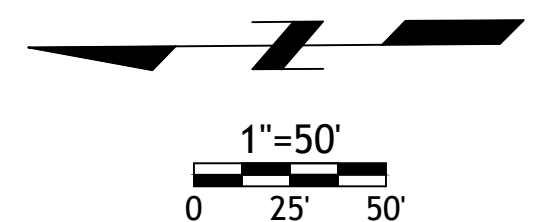
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

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WATERLINE B
PLAN AND PROFILE
permit
5 MAY 2021



NOTE
COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF 18"
ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.



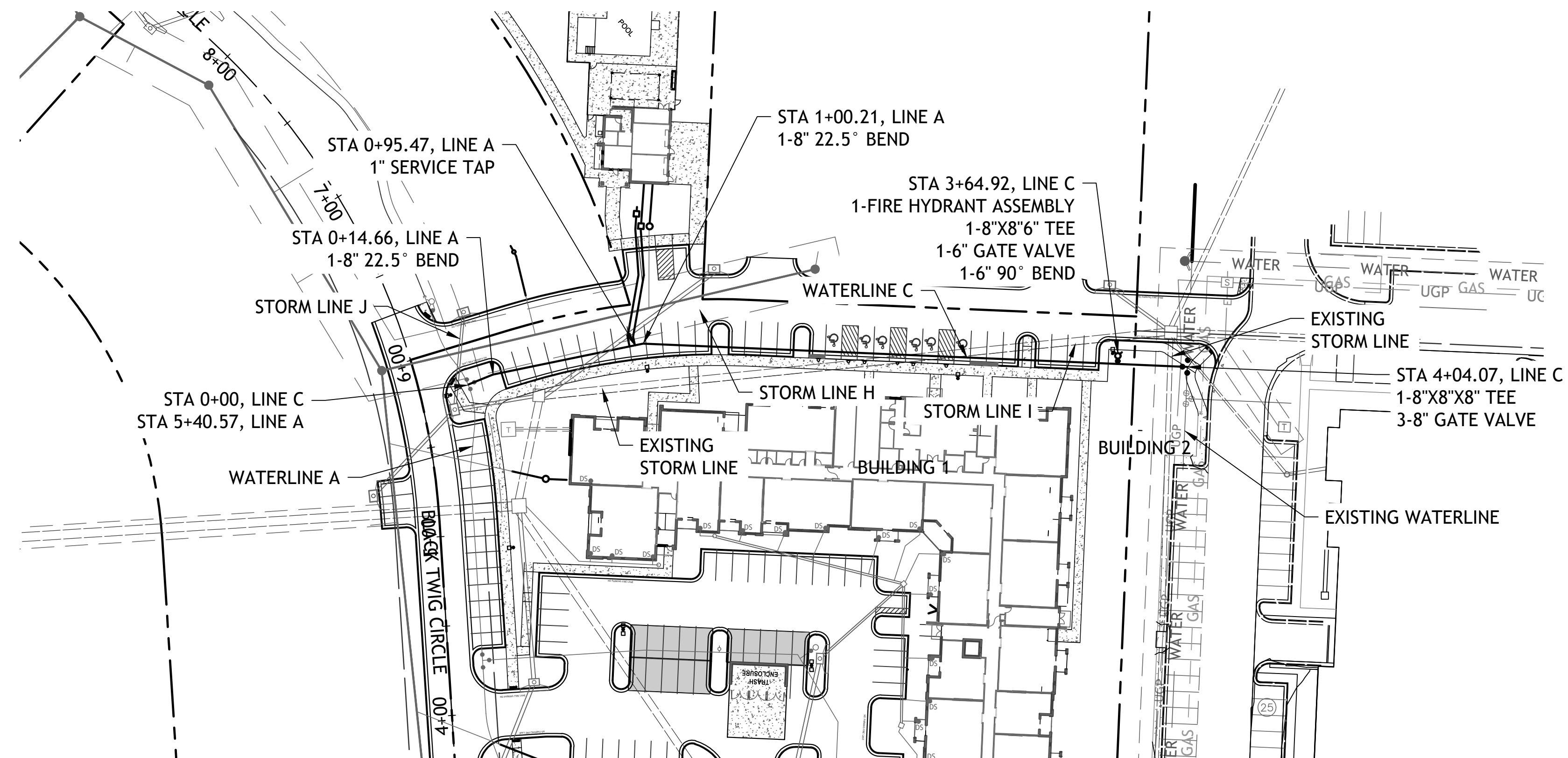
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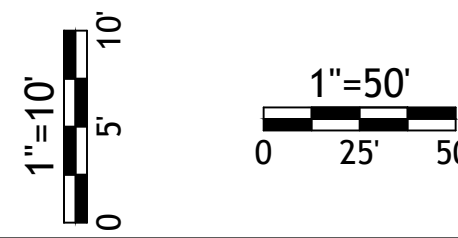
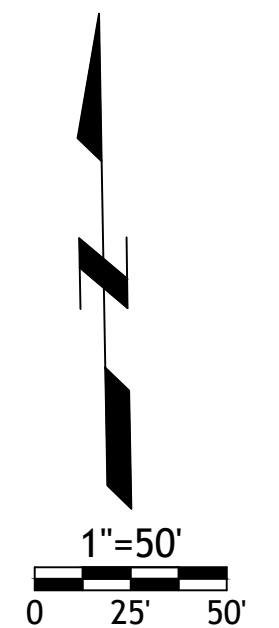
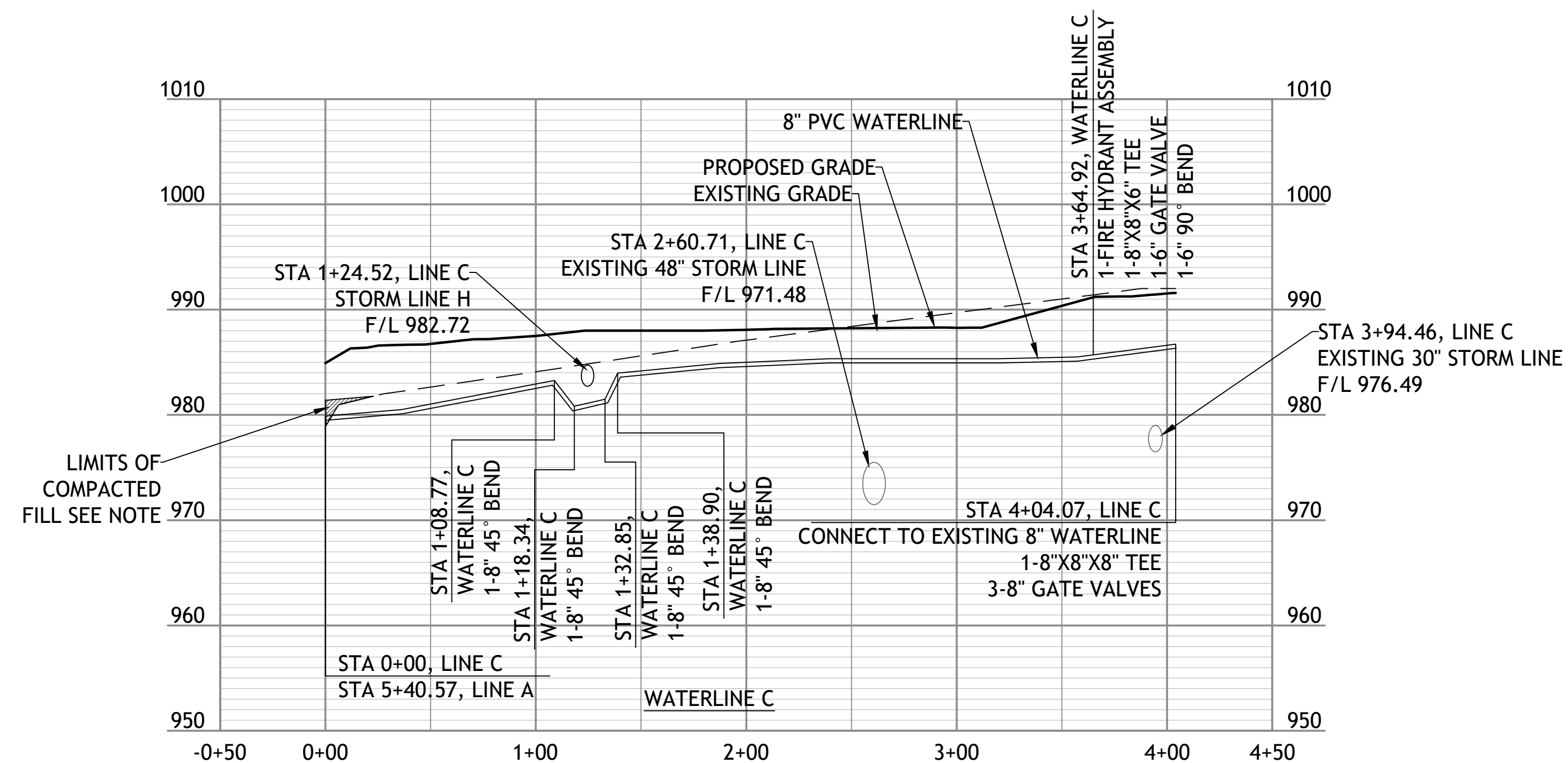
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STREETS OF W. PRYOR
LOT 7A
LEES SUMMITT, MO.

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PLAN AND PROFILE
5 MAY 2021



NOTE
COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF 18"
ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.



Shrub List

Symbol	Quantity	Common Name	Botanical Name	Size	Condition	Spacing
	160	Seagreen Juniper	Juniperus Chinensis 'Seagreen'	18"-24"sp.	Cont.	4'o.c.
	155	Dwarf Winged Euonymus	Euonymus Alatus 'Compactus'	18"-24"sp.	Cont.	4'o.c.
	114	Morning Light Maiden Grass	Miscanthos Sinensis 'Morning Light'	18"-24"sp.	Cont.	4'o.c.

Tree List

Symbol	Quantity	Common Name	Botanical Name	Size	Condition	Spacing
	52	October Glory Maple	Acer Rubrum 'October Glory'	3" cal	BB	As Shown
	52	Skyline Honeylocust	Gleditsia Triacanthos 'Skyline'	3" cal	BB	As Shown
	12	Golden Raintree	Koelreuteria Paniculata	3"cal	BB	As Shown
	19	Golden Raintree	Koelreuteria Paniculata	3"cal	BB	As Shown

LOT 7A SITE DATA:

LOWENSTEIN 658'
REQUIRED:
STREET TREES 1/30' = 22
PARKING LOT SHRUBS 12/40' = 197

PROVIDED:
SHADE TREES = 22
SHRUBS = 200

PRIVATE DR EAST 1,032'
REQUIRED:
STREET TREES 1/30' = 34
SHRUBS 2/20' = 52

PROVIDED:
SHADE TREES = 34
SHRUBS = 55

BLACK TWIG CIRCLE 571'
REQUIRED:
STREET TREES 1/30' = 19
SHRUBS 2/20' = 29

PROVIDED:
SHADE TREES = 19
SHRUBS = 30

INTERIOR PARKING
TOTAL PARKING SURFACE = 173,111 sf
REQUIRED
5% LANDSCAPE AREA = 8,655 sf
PROVIDED = 9,832 sf

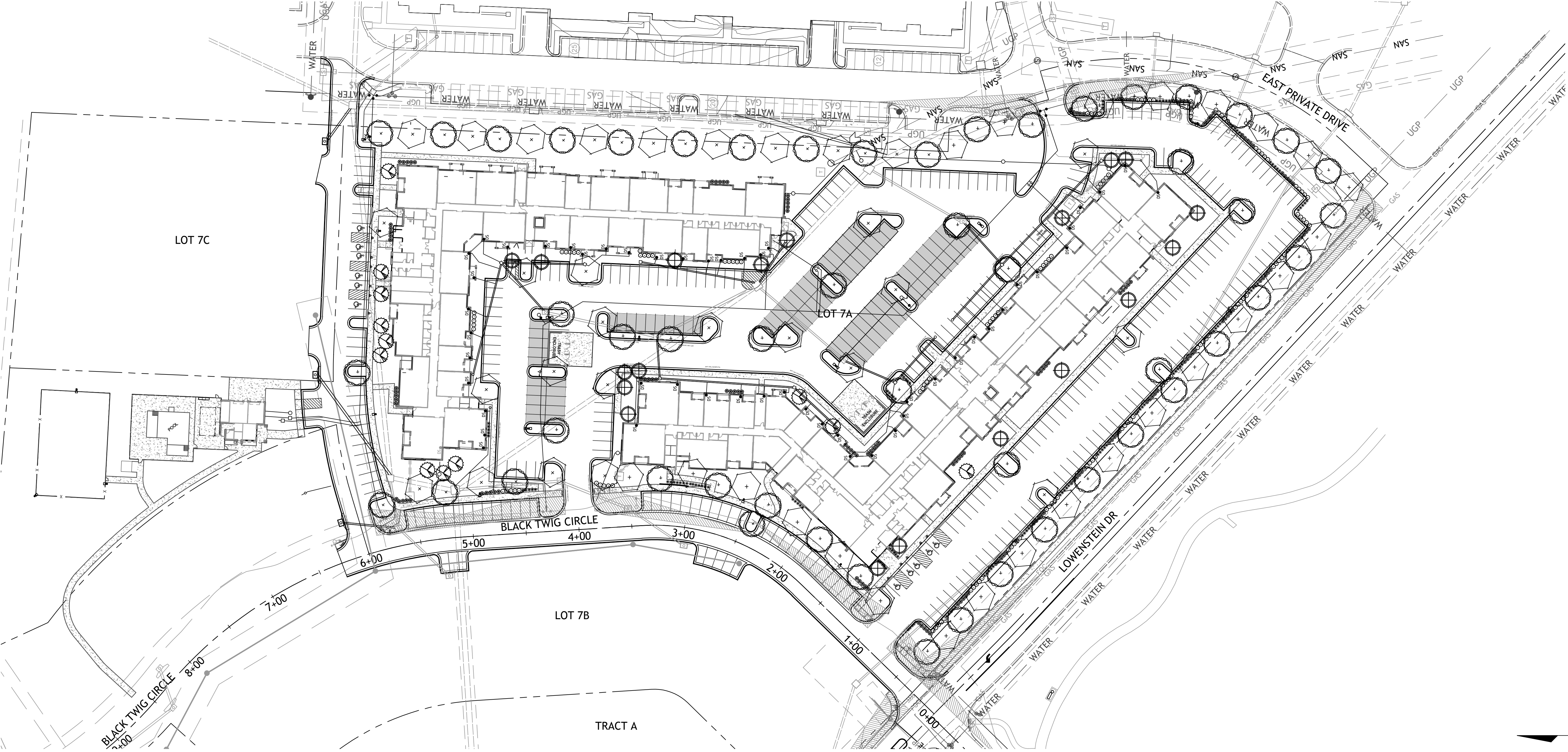
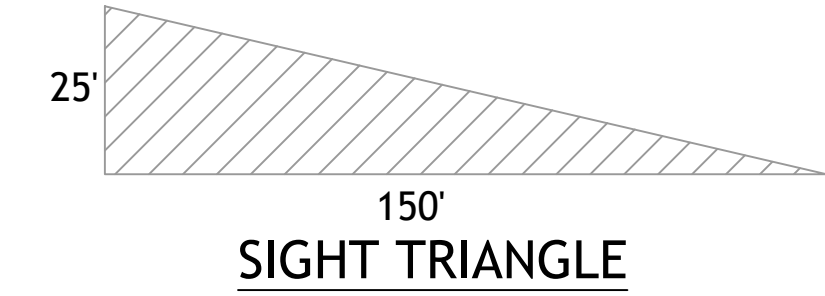
LOT 7A SITE DATA:

OPEN SPACE TREES
TOTAL SITE 9.34ac (406,422sf)
BUILDING AREA 83,700sf
OPEN SPACE 322,722sf

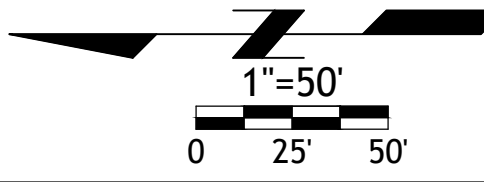
REQUIRED
1 / 5,000sf = 65

PROVIDED
SHADE TREES = 35
ORNAMENTALS = 31

OPEN SPACE SHRUBS
REQUIRED
2 / 5,000sf = 130
PROVIDED = 130

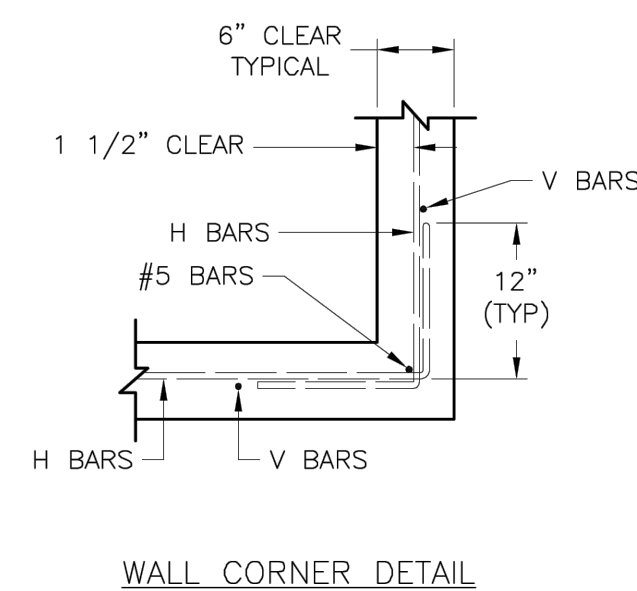
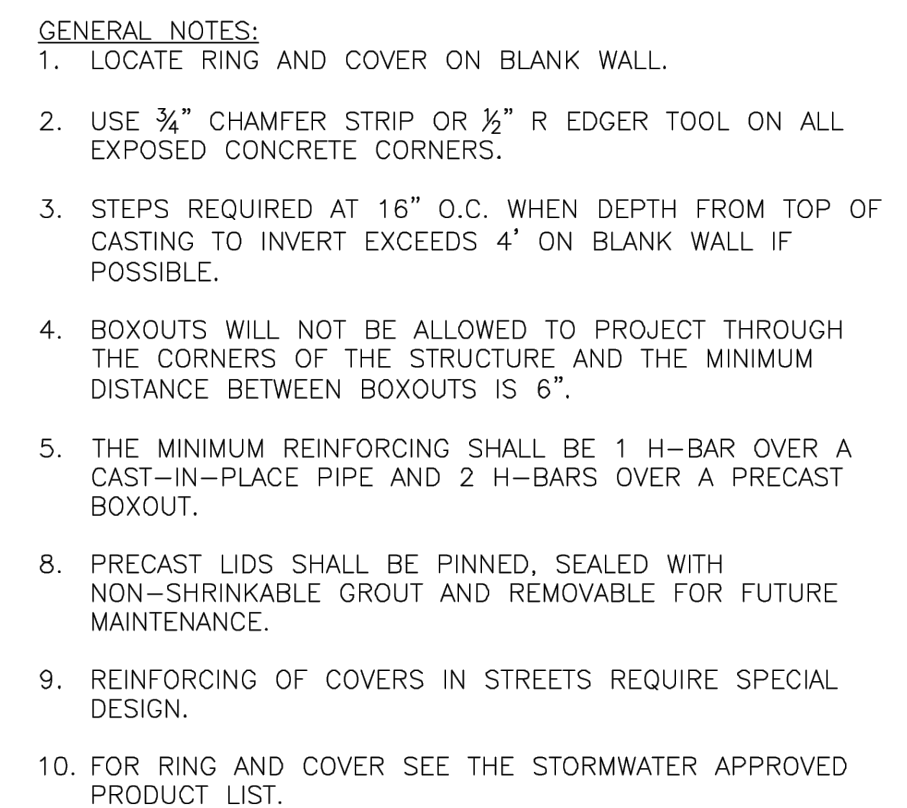
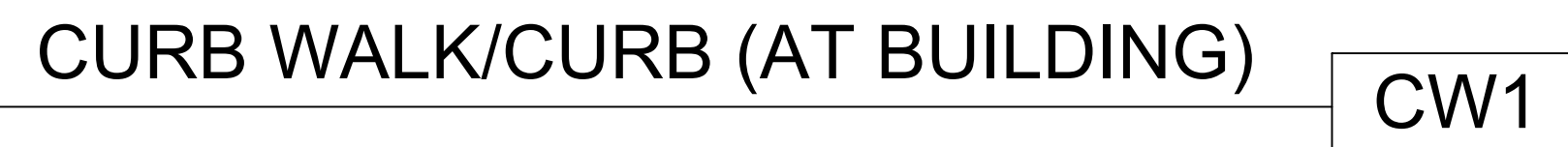


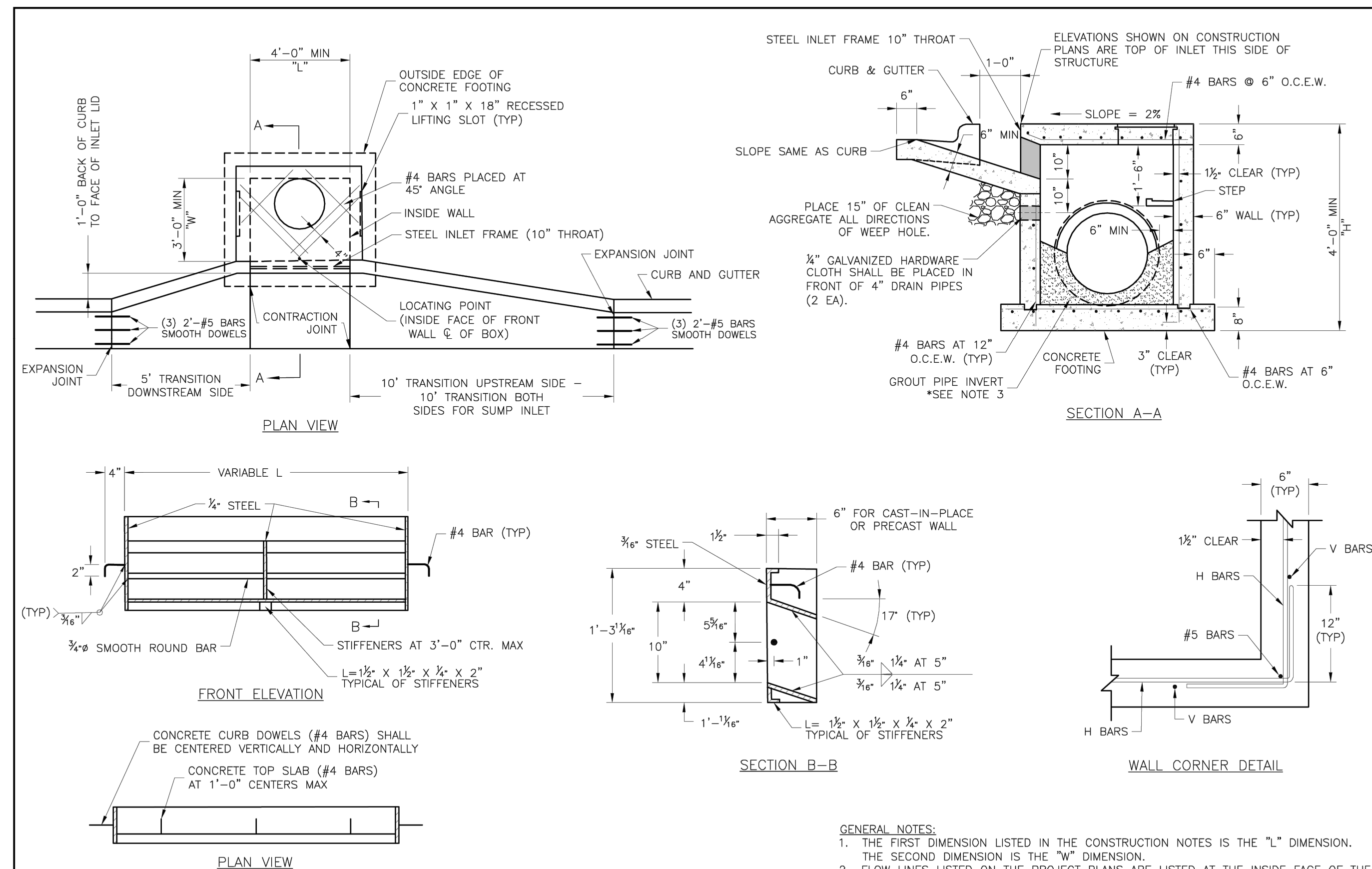
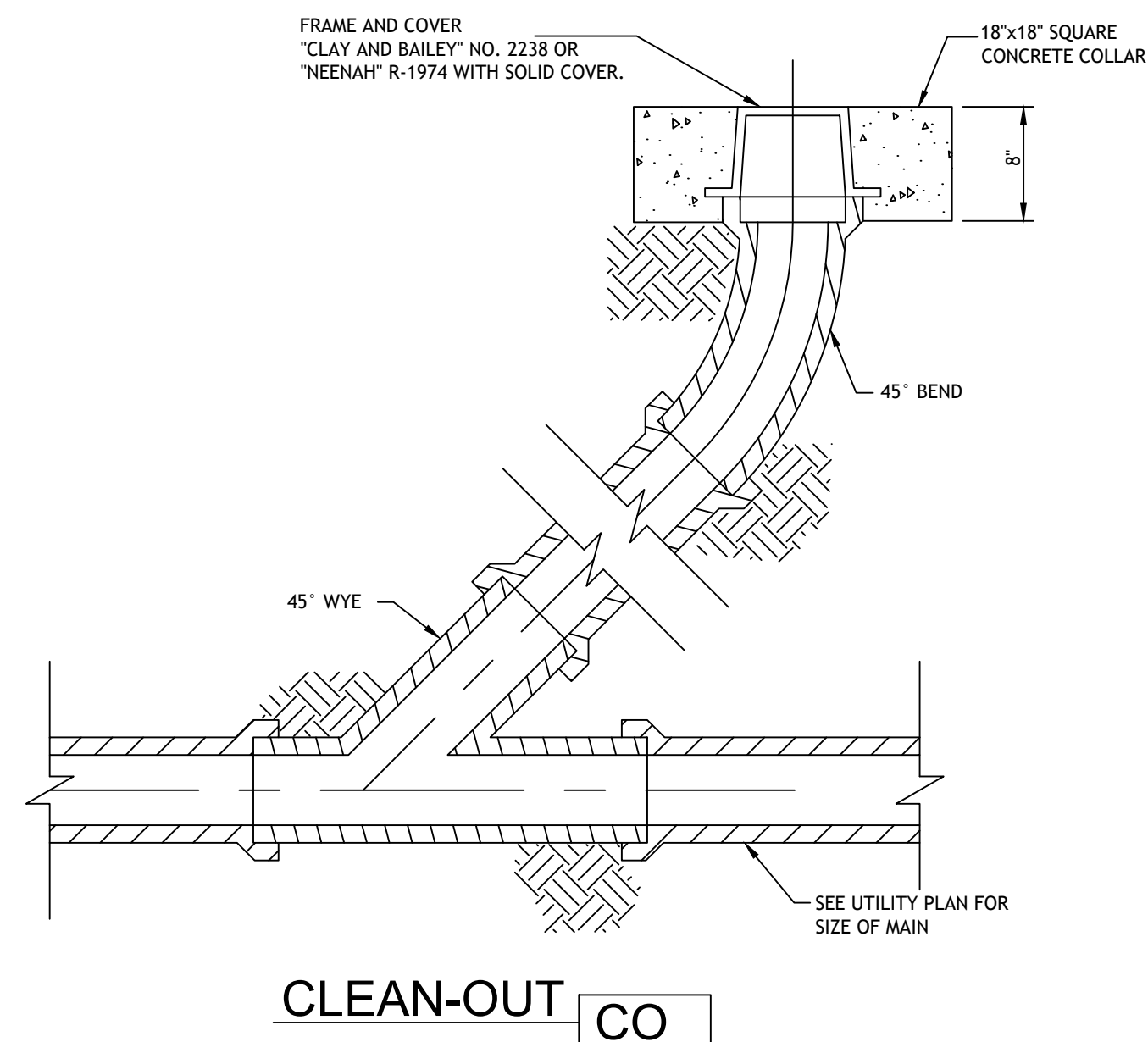
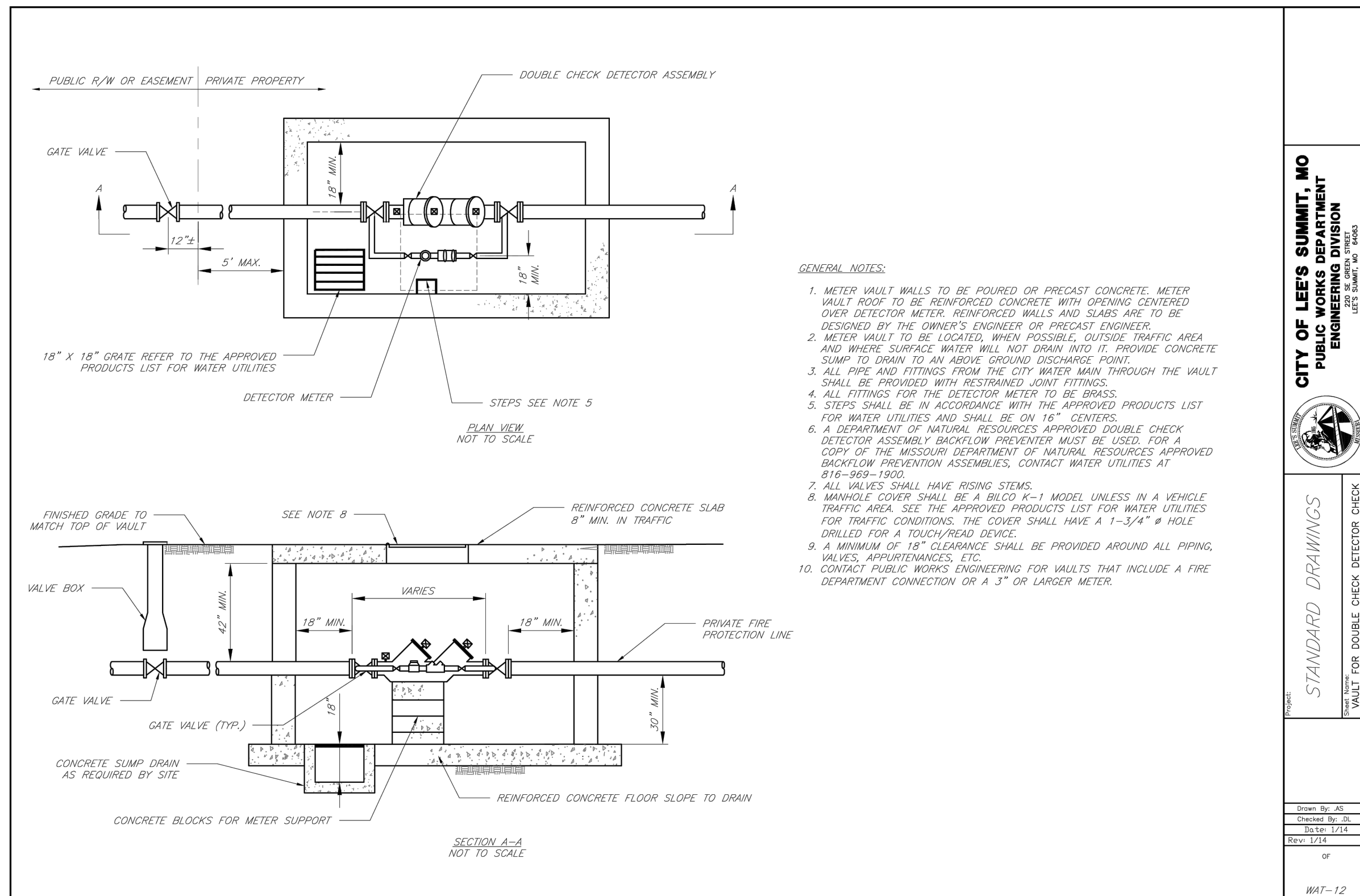
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2. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR $\pm 2\%$ AND SHALL MEET OR EXCEED THE SPECIFICATIONS SET FORTH IN THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.



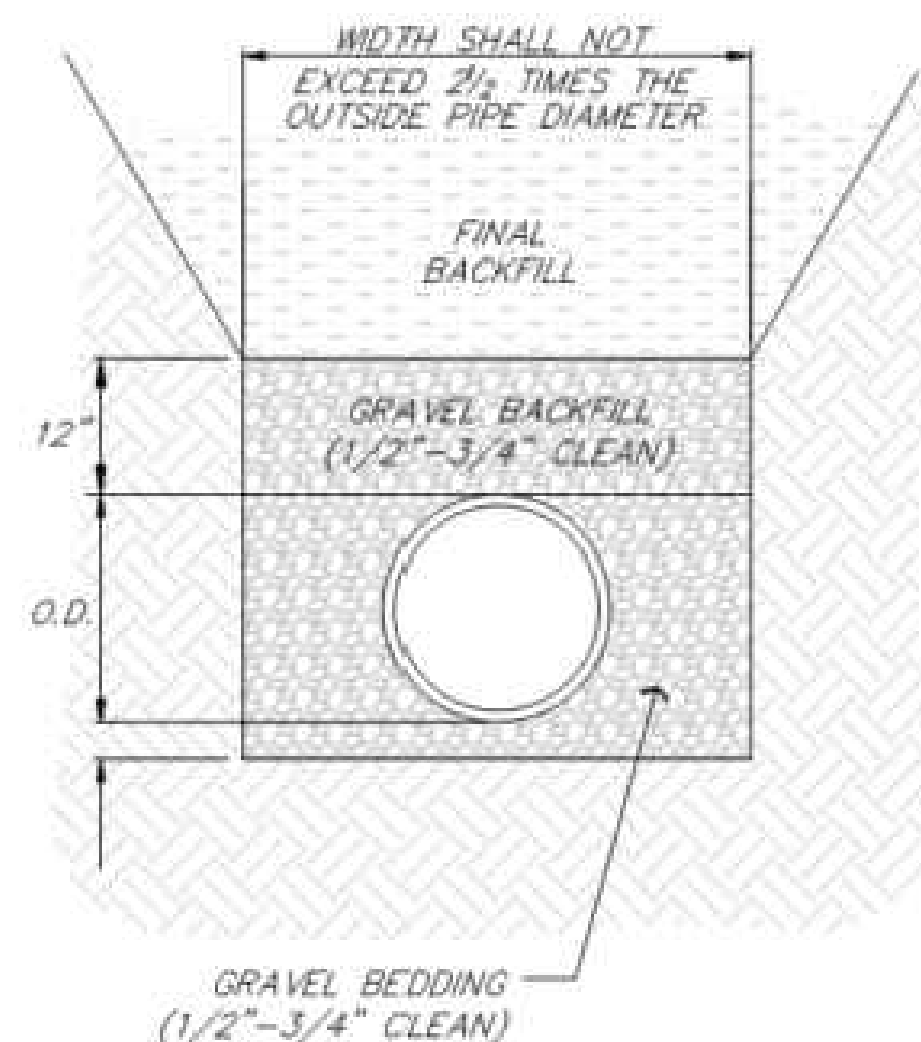


- GENERAL NOTES:**
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
 2. FLOW LINES LISTED ON THE PROJECT PLANS ARE ATTACHED AT THE INSIDE FACE OF THE WALL.
 3. FLOOR OF INLET GROUTED AND SHOWN TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
 4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
 5. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
 6. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR R "R" TOOLED EDGE.
 7. ALL INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
 8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKING GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
 9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON-SHRINKABLE GROUT
 10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

BEDDING
1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY
COMPACTED IN MAX. 4" LIFTS

INITIAL BACKFILL
-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS
1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY
COMPACTED IN MAX. 4" LIFTS
-UNDER OPEN AREAS
1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY
COMPACTED IN MAX. 4" LIFTS

FINAL BACKFILL
-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS
ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN
MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH,
CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8",
COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698
-UNDER OPEN AREAS
ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN
MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH,
CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8",
COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698



BEDDING DEPTH BELOW PIPE		
PIPE DIAMETER	IN SOIL	IN ROCK
24" AND LESS	4"	6"
27" THRU 60"	4"	9"

PIPE BEDDING DETAIL
NOT TO SCALE