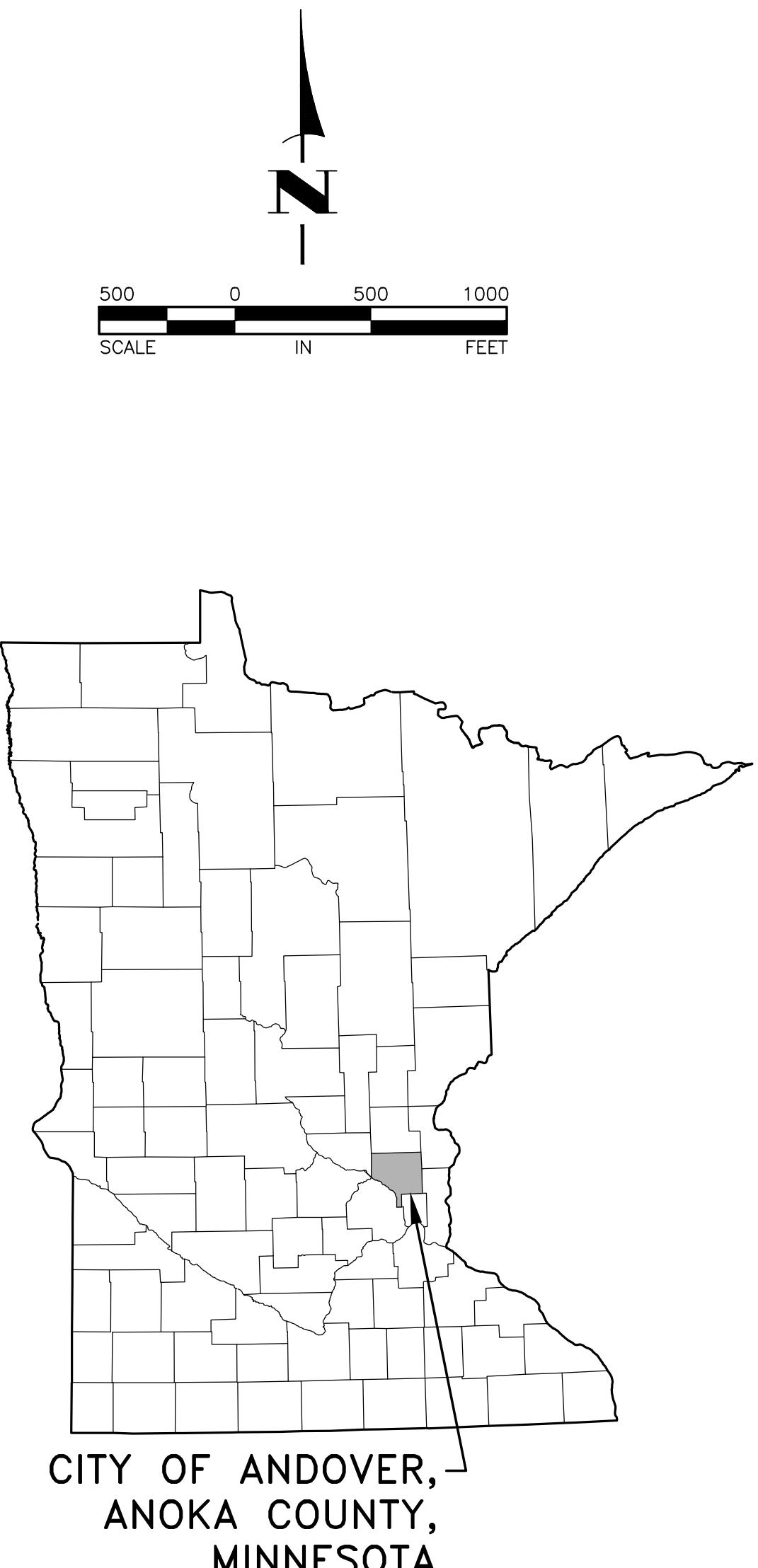
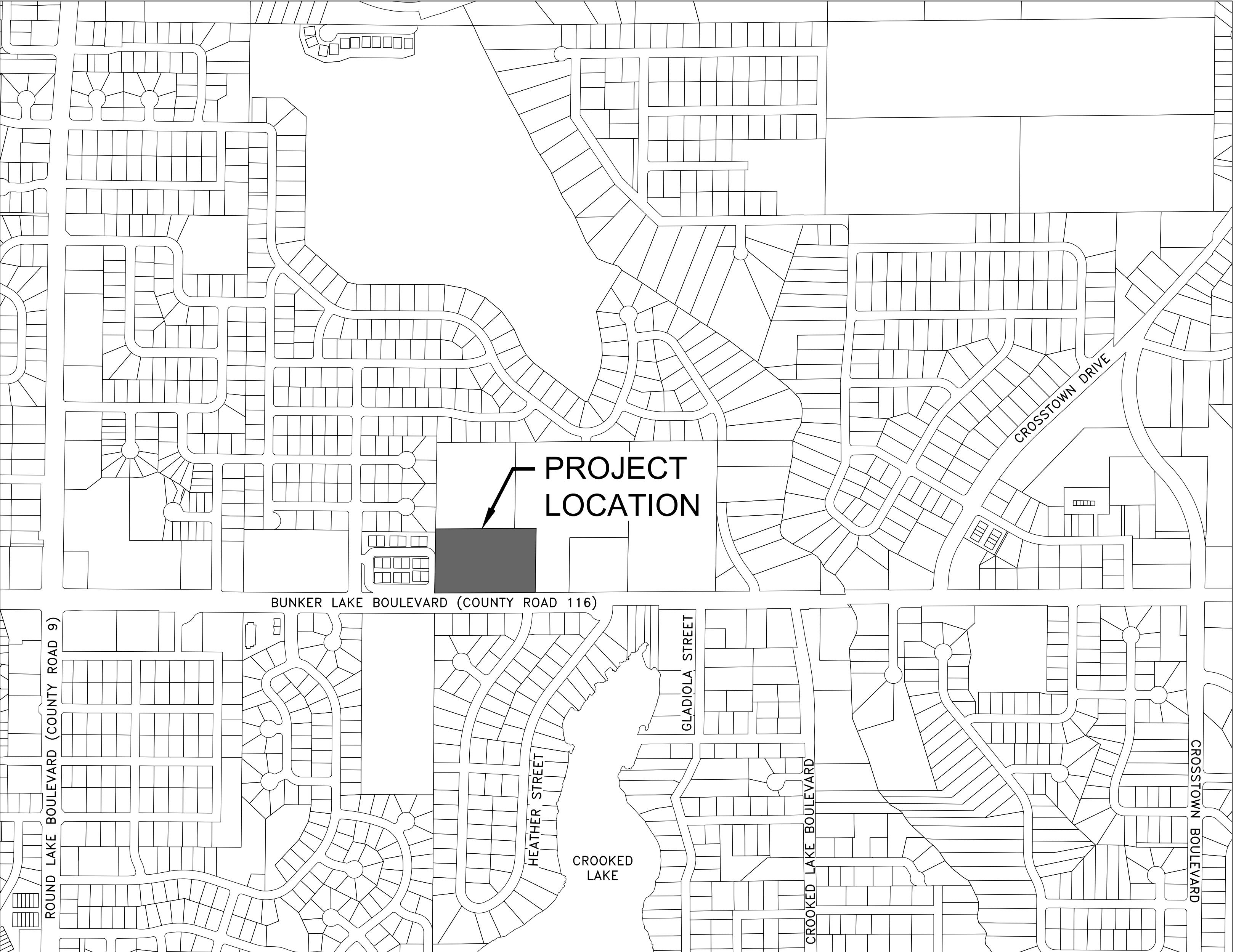


MEADOW CREEK CHURCH

CONSTRUCTION PLANS FOR SITE GRADING, SANITARY SEWER, STORM SEWER, WATERMAIN, CONCRETE CURB AND GUTTER, BITUMINOUS PAVING AND MISCELLANEOUS CONSTRUCTION FOR KINGHORN CONSTRUCTION IN THE CITY OF ANDOVER



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

GENERAL NOTES:

1. PROJECT IS LOCATED WITHIN THE BOUNDARY OF THE COON CREEK WATERSHED DISTRICT (CCWD).
2. TOP NUT OF THE HYDRANT LOCATED SOUTHEAST OF THE INTERSECTION OF 137TH AVENUE AND KERRY STREET.
ELEV=881.32
3. TOP NUT OF THE HYDRANT LOCATED ON THE NORTH SIDE OF BUNKER LAKE BOULEVARD, APPROXIMATELY 100 FEET WEST OF HEATHER STREET.
ELEV=871.50

BENCHMARKS:

1. TOP NUT OF THE HYDRANT LOCATED SOUTHEAST OF THE INTERSECTION OF 137TH AVENUE AND KERRY STREET.
ELEV=881.32
2. TOP NUT OF THE HYDRANT LOCATED ON THE NORTH SIDE OF BUNKER LAKE BOULEVARD, APPROXIMATELY 100 FEET WEST OF HEATHER STREET.
ELEV=871.50

OWNER/DEVELOPER
MEADOW CREEK CHURCH
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ANDOVER, MN 55304
MIKE HUTTON, PRESIDENT
elders@meadowcreekchurch.org
763-913-7081

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JOHN KINGHORN
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ENGINEER/SURVEYOR
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3601 THURSTON AVENUE
ANOKA, MN 55303
TIMOTHY A. EGGERICH, P.E.
time@haa-inc.com
BRIAN R. PERSON, P.L.S.
brianp@haa-inc.com
763-427-5860
763-427-0520 (FAX)

GOVERNING SPECIFICATIONS
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
THE 2025 EDITION OF THE CITY OF ANDOVER UTILITY AND STREET SPECIFICATIONS SHALL APPLY.
ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET INDEX THIS PLAN CONTAINS 24 SHEETS

SHEET NO.	DESCRIPTION
C1	TITLE SHEET
C2	CONSTRUCTION NOTES, DETAILS AND PROJECT LEGEND
C3-C6	DETAILS
C7-C12	PEDESTRIAN CURB RAMP DETAILS
C13	TRAFFIC CONTROL PLAN-CSAH 116
C14	EXISTING TOPOGRAPHY AND REMOVALS PLAN
C15	SITE PLAN
C16-C17	GRADING, DRAINAGE AND SEDIMENT CONTROL PLAN
C18	STAKING PLAN
C19	UTILITY PLAN
C20	TURN LANE CONSTRUCTION PLAN-CSAH 116
C21	RESTORATION AND PAVING PLAN
L1-L2	LANDSCAPE PLAN
X1	CROSS SECTIONS-CSAH 116 TURN LANE

DATE _____
APPROVED: ANOKA COUNTY ENGINEER
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Tim Eggerichs
TIMOTHY A. EGGERICH, P.E.
HAKANSON ANDERSON
DESIGN ENGINEER

43362 DATE 5/16/25
LIC. NO.

DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
8/20/25	PLAN REVISIONS PER COUNTY REVIEW
9/26/25	PLAN REVISIONS PER CITY REVIEW

GENERAL CONSTRUCTION AND SOILS NOTES:

- STRIP ALL INPLACE TOPSOIL IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING. IN AREAS OF PARKING LOT AND BUILDING CONSTRUCTION, THE EXPOSED SAND SHALL BE SURFACE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D698, IN AT LEAST THE UPPER 3 FEET.
- UNLESS OTHERWISE RECOMMENDED IN THESE PLANS, THE GRADING SUBGRADE SHALL BE CONSTRUCTED OF SUITABLE GRADING MATERIAL. THE FILL SHALL BE PLACED IN 8" TO 10" LOOSE LIFTS, AND COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- SUITABLE GRADING MATERIAL FOR THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, SILT, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
- CONTRACTOR SHALL REVIEW THE REPORT OF GEOTECHNICAL EXPLORATION, PREPARED BY AMERICAN ENGINEERING TESTING, FOR ADDITIONAL SITE PREPARATION REQUIREMENTS.
- PROVIDE A SAW CUT WHEN PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT AND AT TERMINI OF CONSTRUCTION TO ENSURE A UNIFORM JOINT.
- BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MN/DOT SPEC. 2104.
- USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.04 GAL/SY TO 0.06 GAL/SY BETWEEN BITUMINOUS LAYERS. FIELD DILUTION IS NOT ALLOWED.
- THE BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS 2360 AND 3139.
- CONTRACTOR SHALL ACQUIRE AN ANOKA COUNTY HIGHWAY DEPARTMENT PERMIT PRIOR TO WORKING IN THE CSAH 116 RIGHT-OF-WAY.
- CONTRACTOR SHALL ACQUIRE A DEPARTMENT OF LABOR AND INDUSTRY PERMIT PRIOR TO CONSTRUCTING ANY UNDERGROUND UTILITIES SHOWN ON THESE PLANS.

GENERAL EROSION CONTROL NOTES:

- EROSION CONTROL SHALL CONFORM TO THE MN/DOT EROSION CONTROL HANDBOOK.
- PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ACQUIRE THE MPCA CONSTRUCTION STORMWATER GENERAL PERMIT. A COPY OF THE PERMIT SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) PRIOR TO GRADING AND REMOVAL ACTIVITIES. BMP'S SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES AND POTENTIAL FOR EROSION HAS PASSED.
- THE CONTRACTOR SHALL SCHEDULE HIS OPERATION TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY GIVEN TIME.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION.

REFERENCE NOTES:

- THE EXISTING MATERIAL MAY BE USED IF IT MEETS THE REQUIREMENTS FOR SELECT GRANULAR EMBANKMENT.
- B418 CURB IS LOCATED ON CSAH 116.

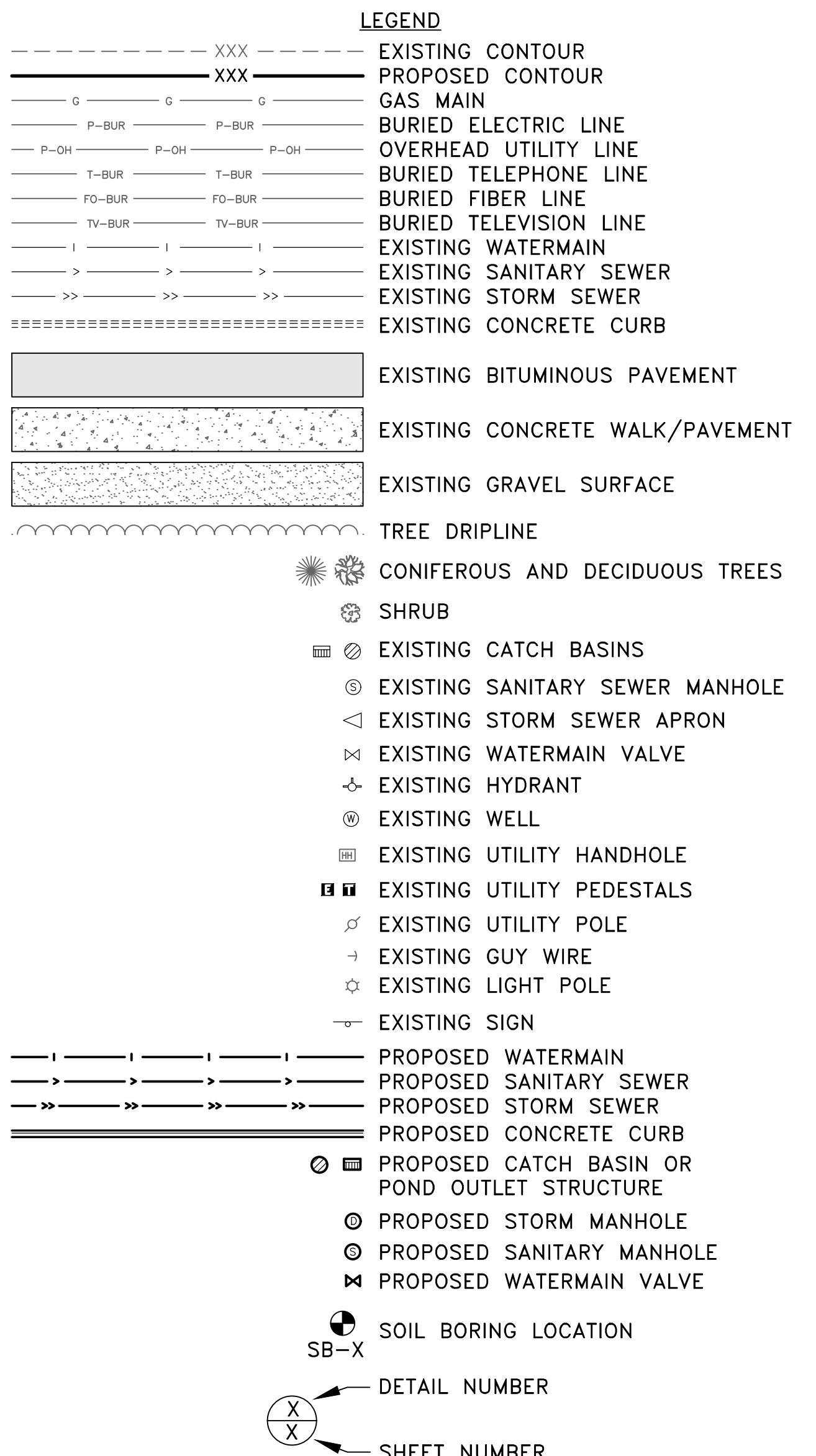
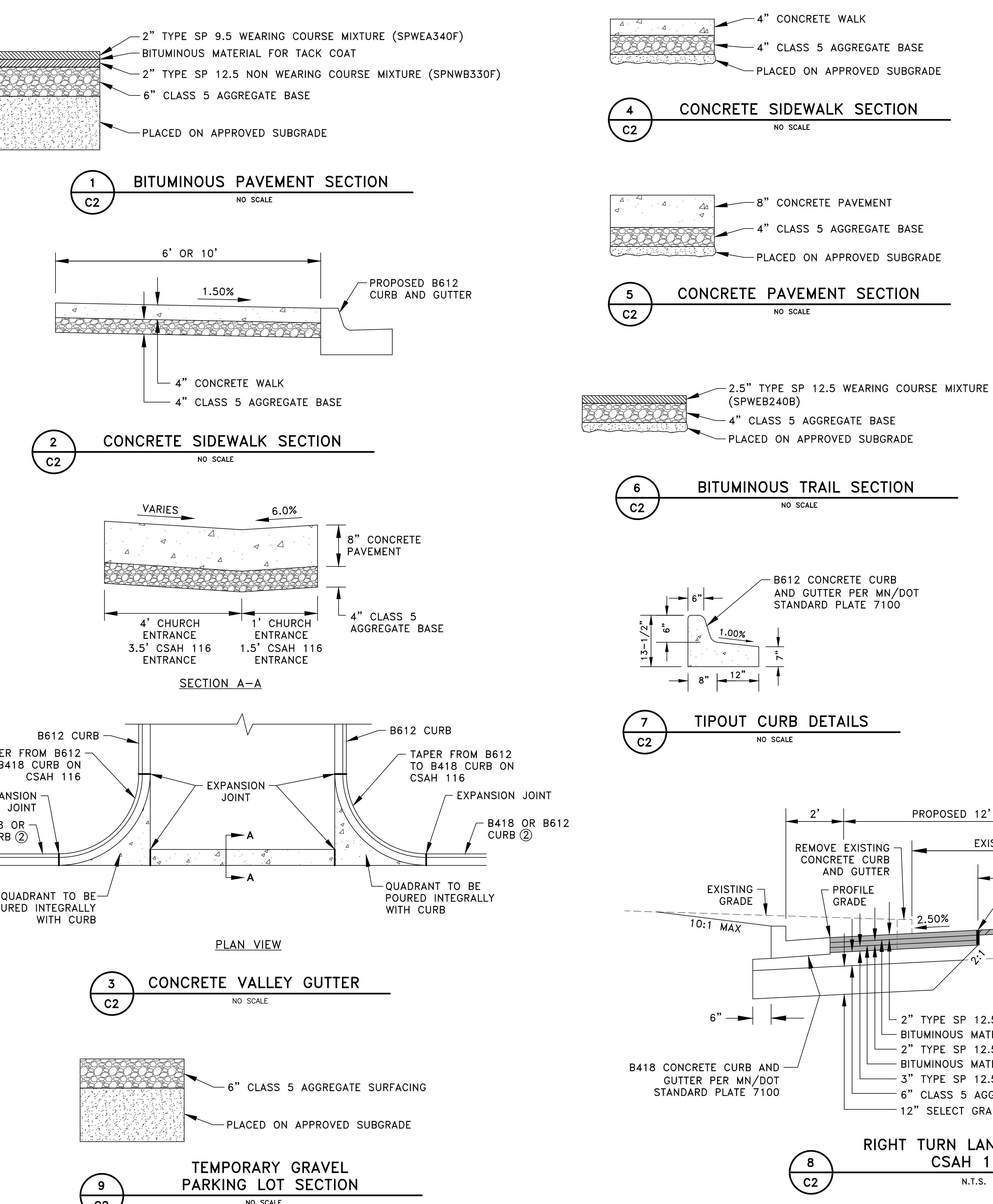
SEQUENCE OF CONSTRUCTION ACTIVITIES:

- INSTALL PERIMETER SILT FENCE AND SEDIMENT CONTROL LOG PRIOR TO STARTING ANY LAND DISTURBING ACTIVITIES.
- INSTALL INLET PROTECTION DEVICES AT CATCH BASINS THAT RECEIVE STORMWATER RUNOFF FROM THE DISTURBED AREA OF THE SITE.
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT THE PROPOSED CONSTRUCTION SITE ACCESS.
- CLEAR AND GRUB TREES.
- REMOVE BITUMINOUS AND CONCRETE PAVEMENT, CONCRETE CURB AND GUTTER, BUILDINGS AND UTILITIES.
- ROUGH GRADE SITE.
- BEGIN BUILDING CONSTRUCTION.
- INSTALL UTILITIES, INCLUDING STORM SEWER, SANITARY SEWER AND WATERMAIN.
- INSTALL INLET PROTECTION DEVICES IN THE CATCH BASINS.
- FINAL GRADE SITE.
- CONSTRUCT PARKING LOT AND ACCESS ROADS WITH AGGREGATE BASE, CONCRETE CURB AND GUTTER AND BITUMINOUS PAVEMENT.
- INSTALL PRIVATE UTILITIES, INCLUDING GAS, TELEPHONE AND ELECTRIC.
- RESTORE AND STABILIZE DISTURBED AREAS AS SHOWN ON SHEET C21.
- REMOVE SILT FENCE, SEDIMENT CONTROL LOGS AND ANY OTHER EROSION OR SEDIMENT CONTROL DEVICES AFTER FINAL STABILIZATION.

STANDARD PLATES	
THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT	
PLATE NO.	DESCRIPTION
4006L	MANHOLE OR CATCH BASIN - PRECAST - DESIGNS G AND H
4010I	CONCRETE ADJUSTING RINGS
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110F	COVER CASTING FOR MANHOLE
4125D	CATCH BASIN FRAME CASTING (FOR SQUARE GRATE) - CASTING NO. 806
4134A	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS) - CASTING NO. 825
4154B	CATCH BASIN GRATE CASTING - CASTING NO. 816
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)

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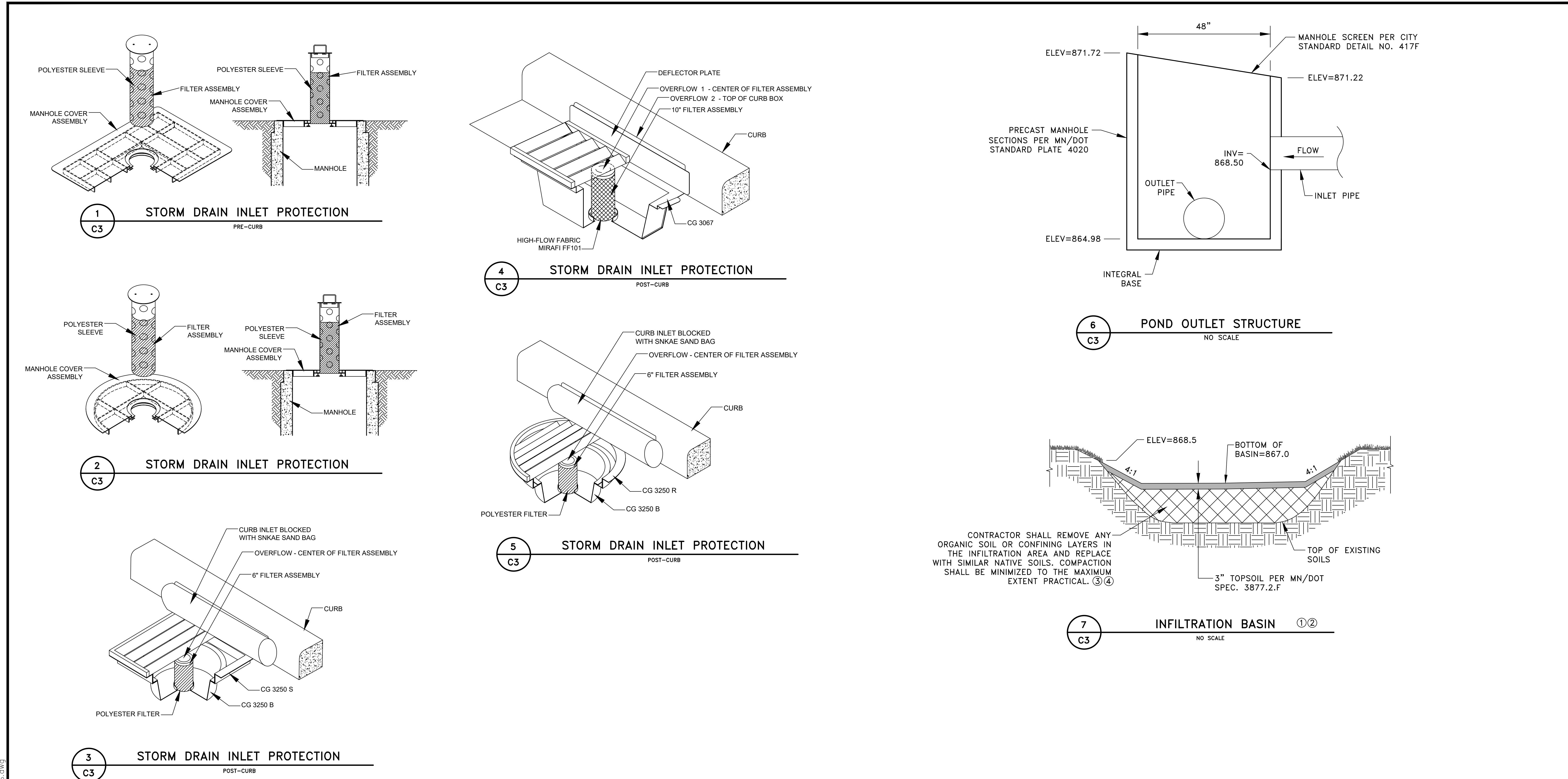
Tim Egger
TIMOTHY A. EGGER, P.E.
Date 5/16/25
Lic. No. 43362



Kinghorn
CONSTRUCTION

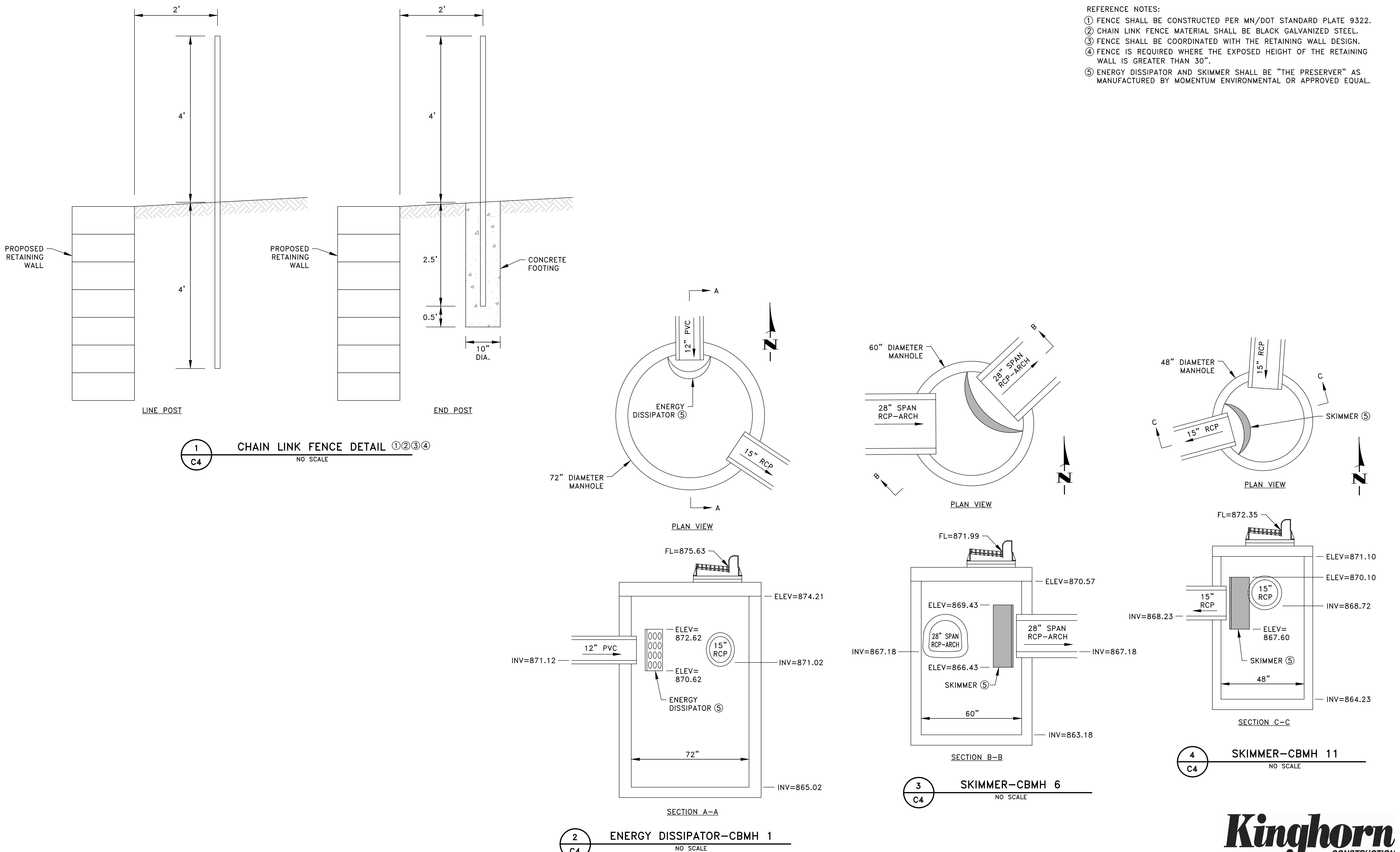
CONSTRUCTION NOTES, DETAILS
AND PROJECT LEGEND
CITY OF ANDOVER, MINNESOTA

SHEET
C2
OF
C21
SHEETS



REFERENCE NOTES:

- ① CONTRACTOR SHALL PROTECT THE INFILTRATION BASIN PRIOR TO THE START OF CONSTRUCTION. CONSTRUCTION EQUIPMENT SHALL BE MINIMIZED OVER THE FOOTPRINT OF THE BASIN. ONLY LOW PRESSURE, WIDE TRACKED EQUIPMENT SHALL BE USED FOR CONSTRUCTION.
- ② INFILTRATION BASINS SHALL NOT BE GRADED TO WITHIN THREE FEET OF THE FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN CONSTRUCTED AND FULLY STABILIZED OR RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREAS HAVE BEEN PROVIDED.
- ③ THE INFILTRATION RATE FOR THE SOILS IN THE BOTTOM OF THE INFILTRATION BASIN SHALL BE BETWEEN 0.45 AND 8.3 INCHES PER HOUR. THE CONTRACTOR MAY HAVE TO AMEND THE SOILS TO MEET THIS REQUIREMENT. A POST-CONSTRUCTION INFILTRATION RATE TEST IS REQUIRED. PROVIDE TEST RESULTS TO THE CITY AND THE CCWD.
- ④ COMPACTED SOIL WITHIN THE INFILTRATION BASIN SHALL BE SCARIFIED TO A DEPTH OF 12" PRIOR TO RESTORATION.



DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.	
<i>Tim Egger</i>	
TIMOTHY A. EGGER, P.E.	
Date 5/16/25	Lic. No. 43362

DESIGNED BY:

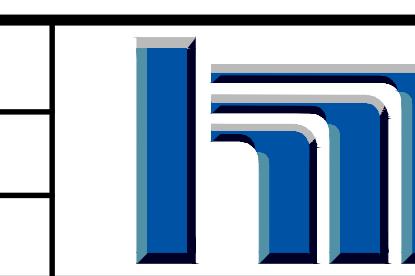
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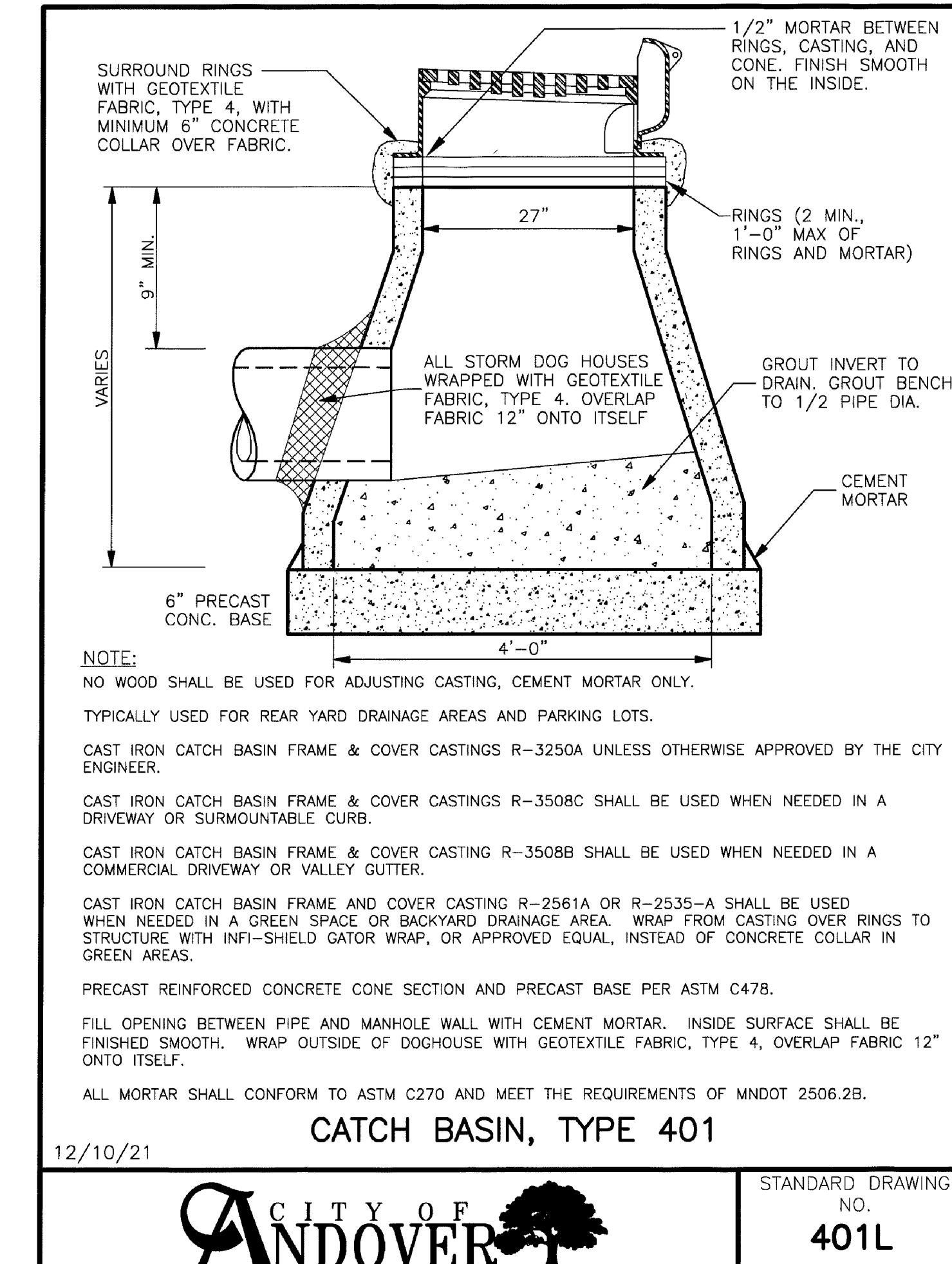
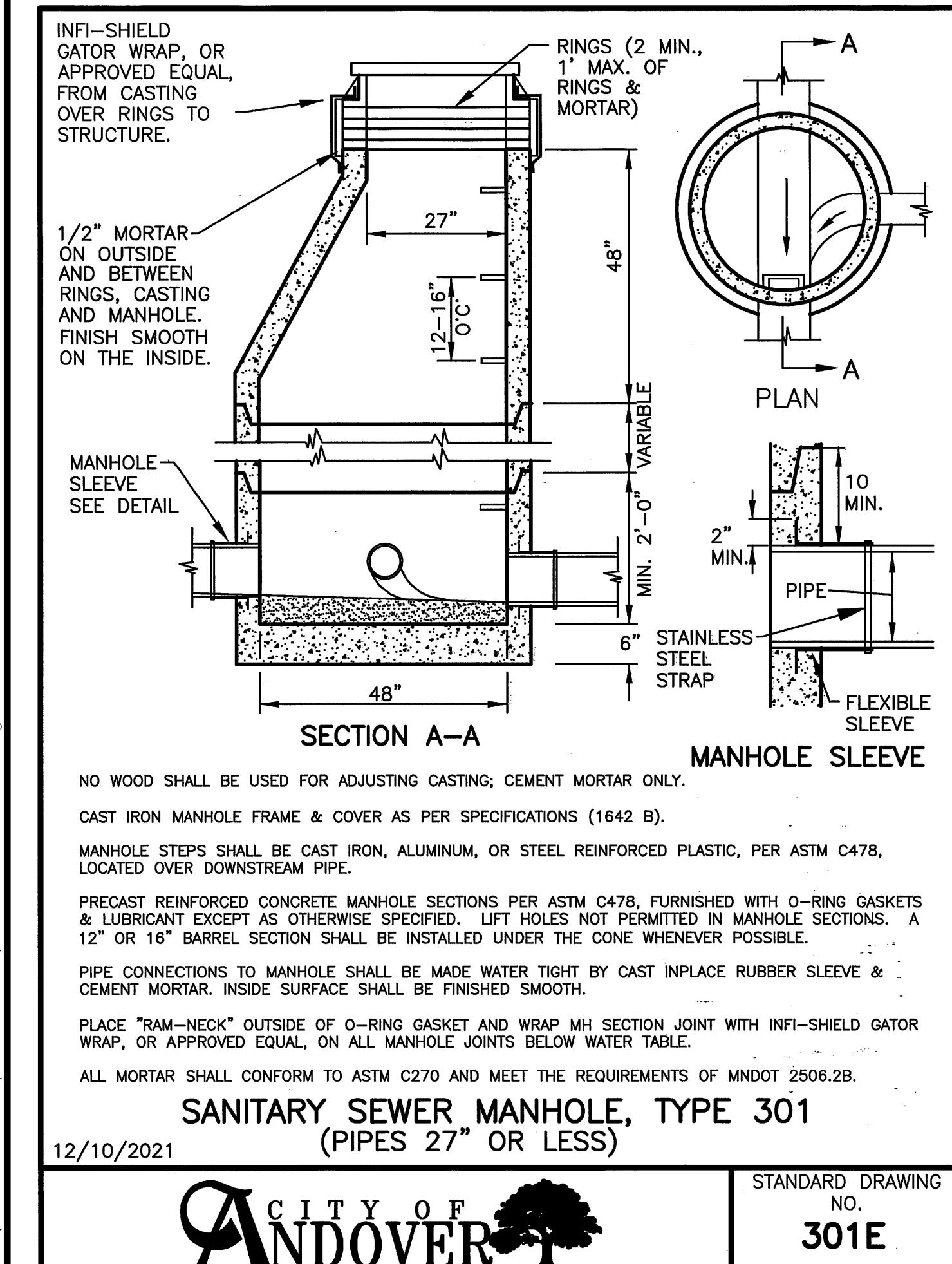
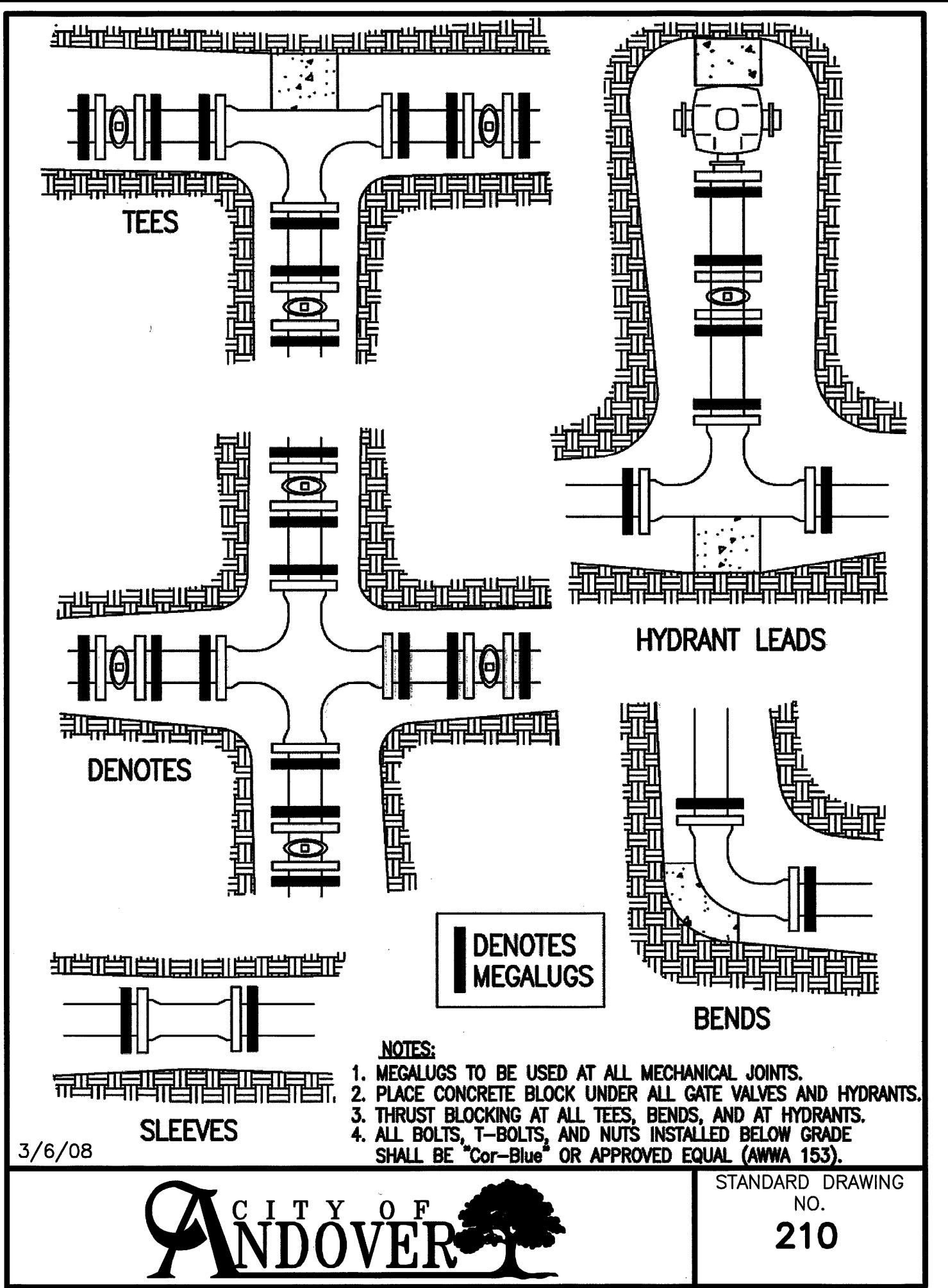
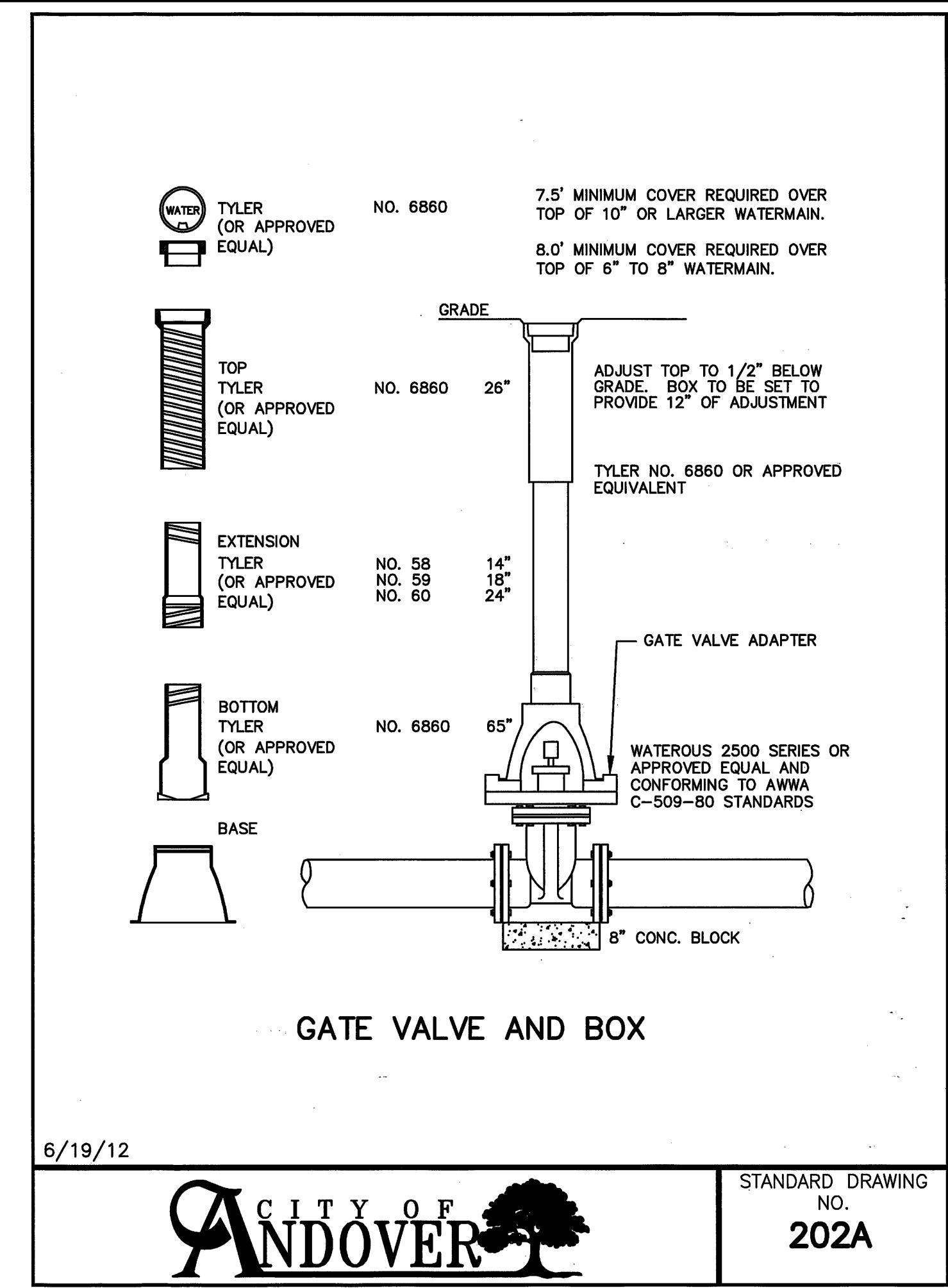
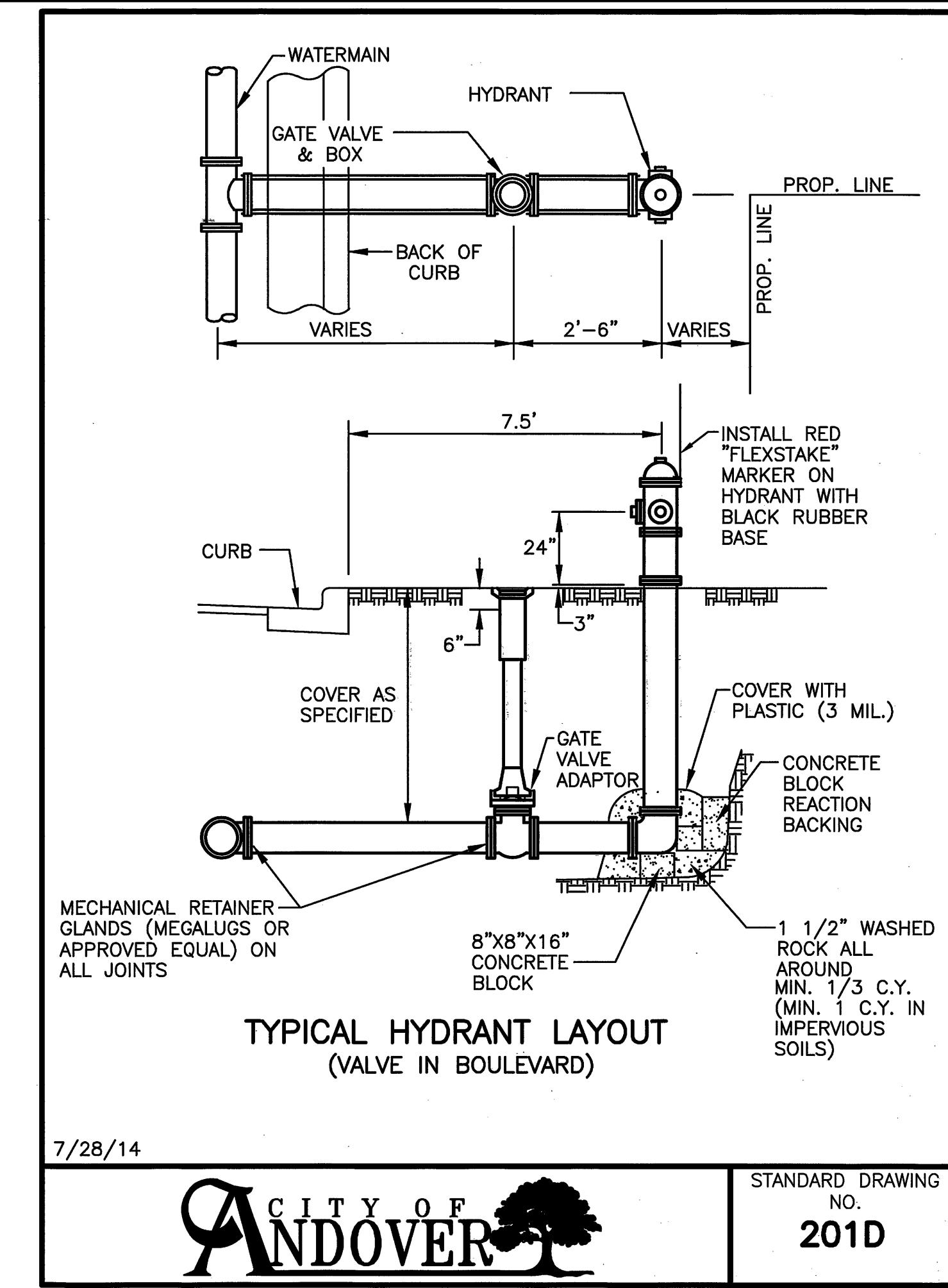
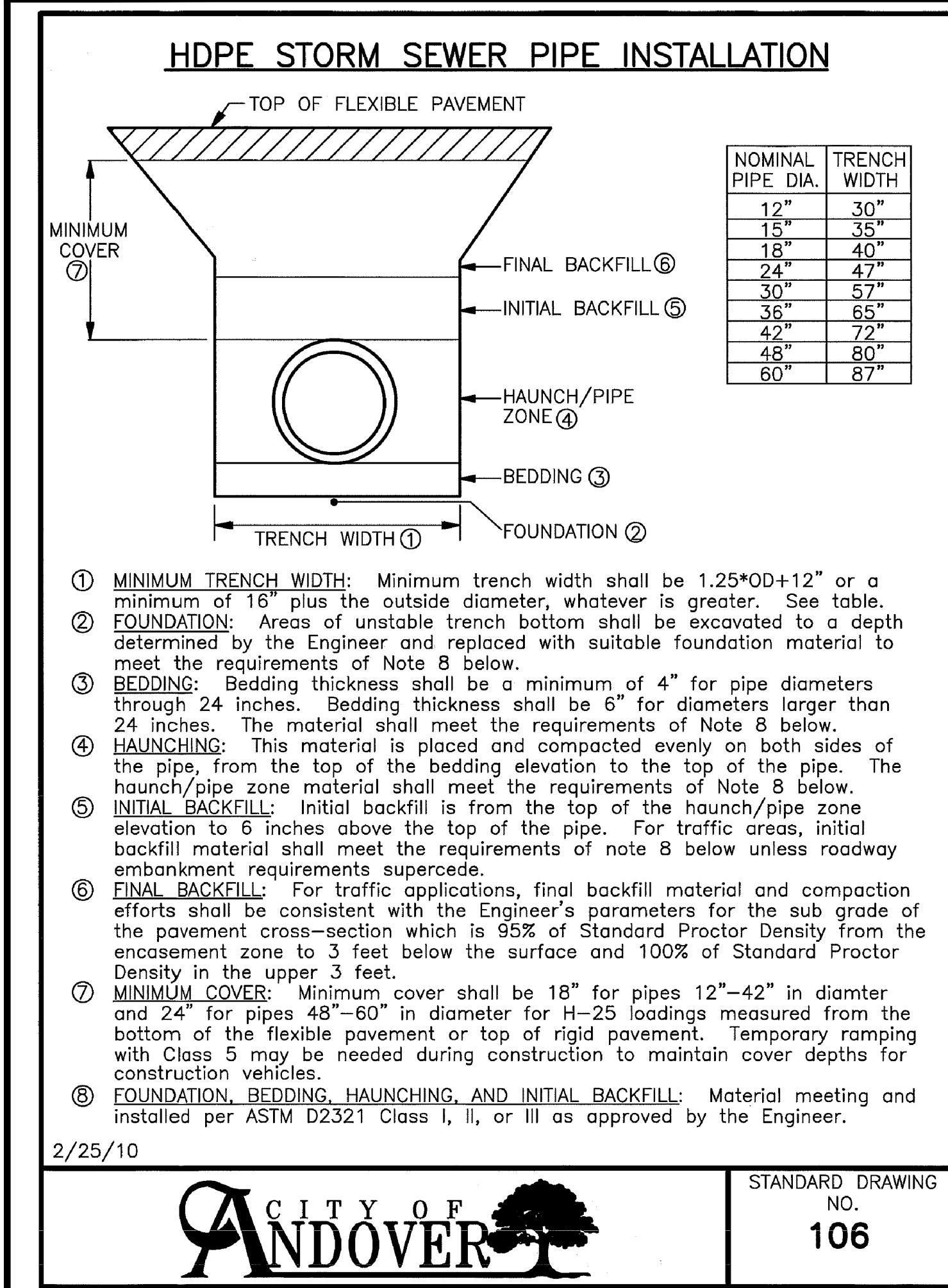
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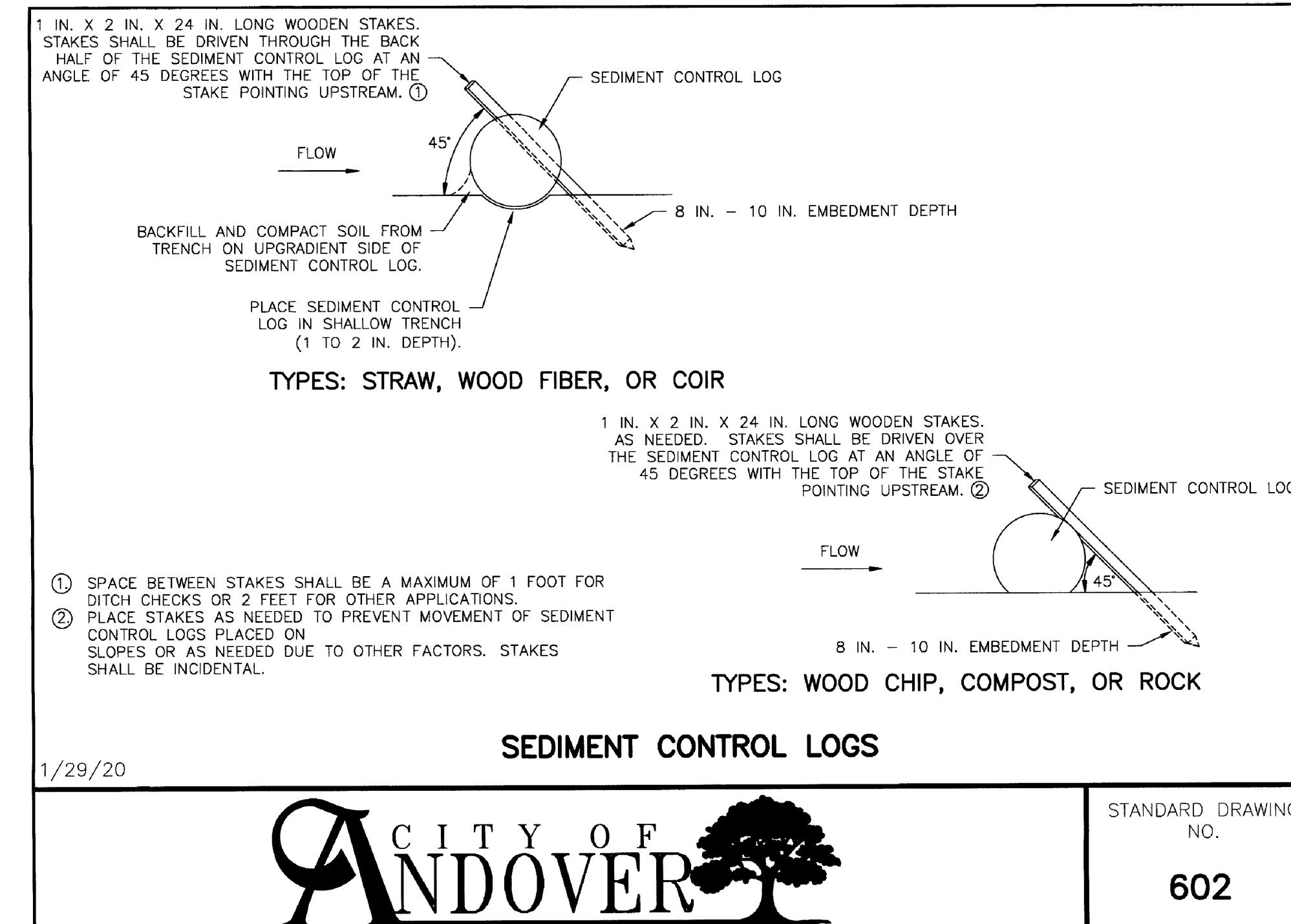
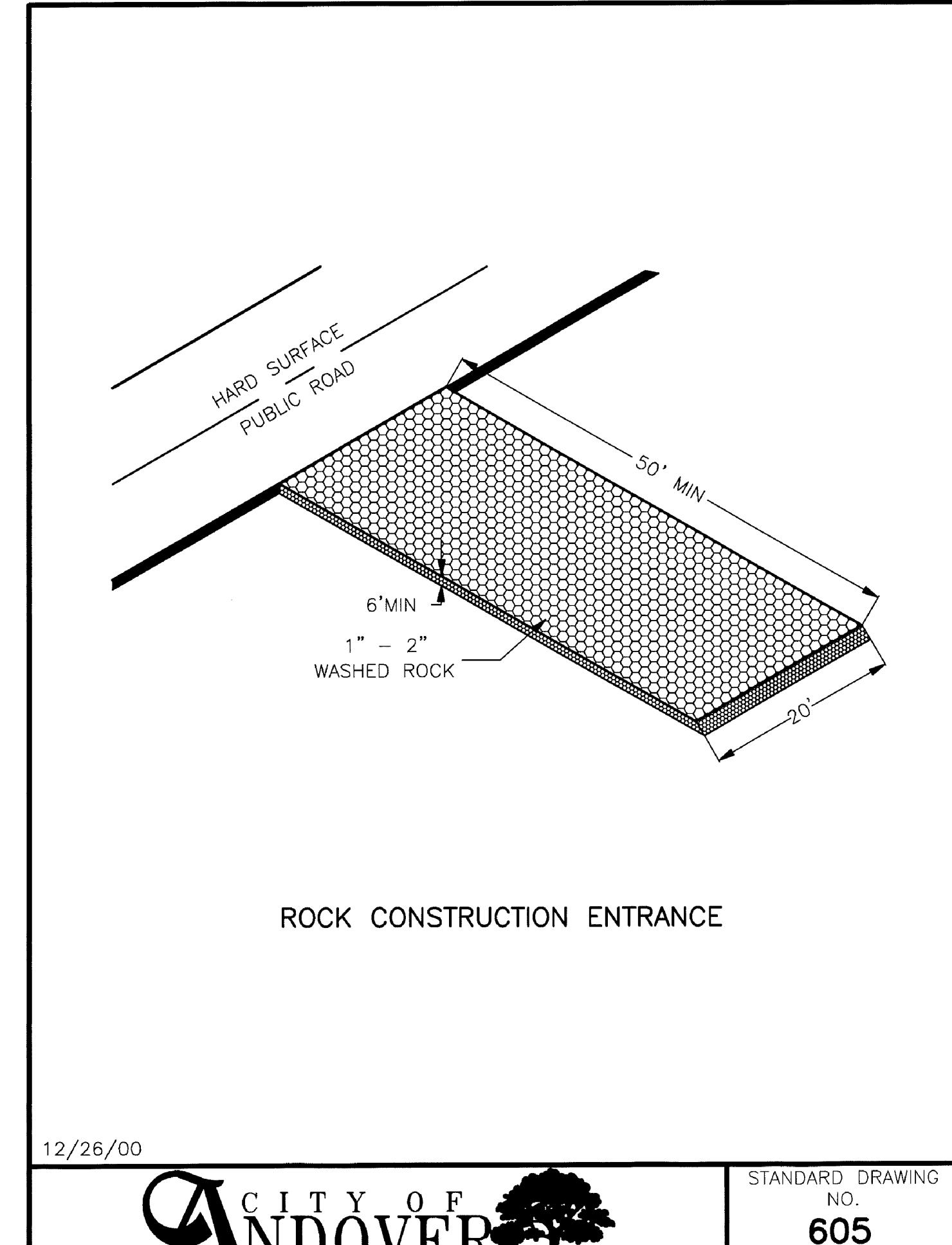
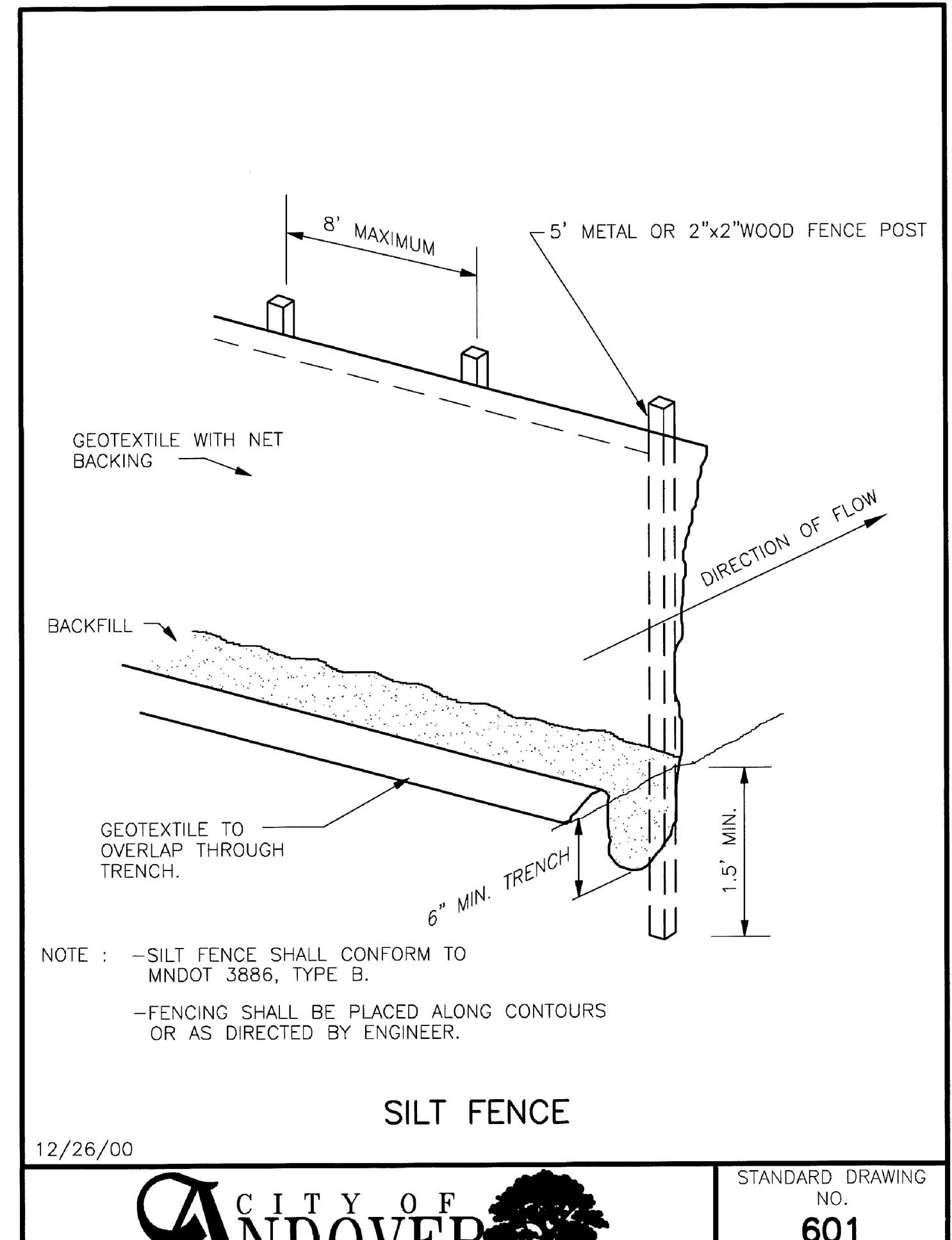
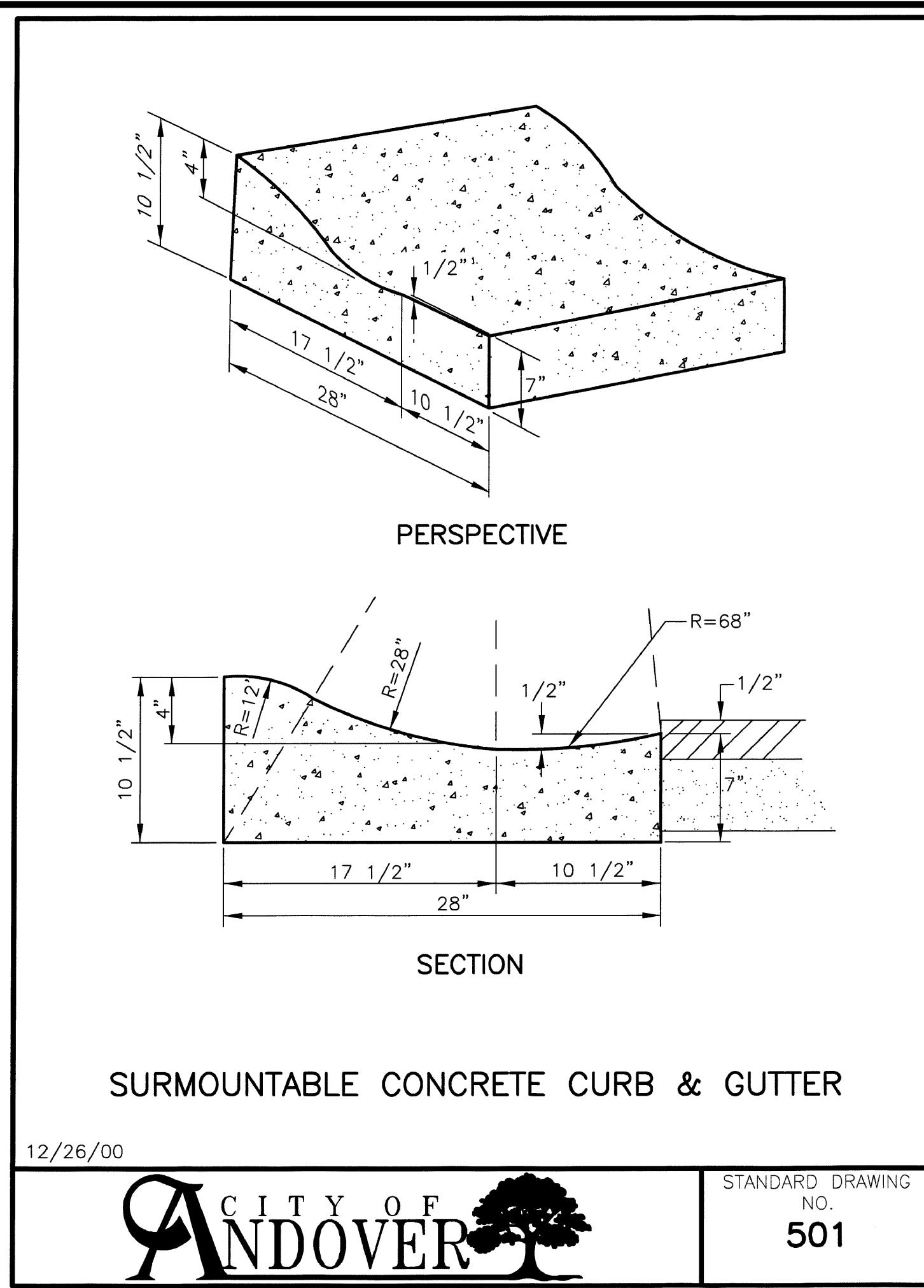
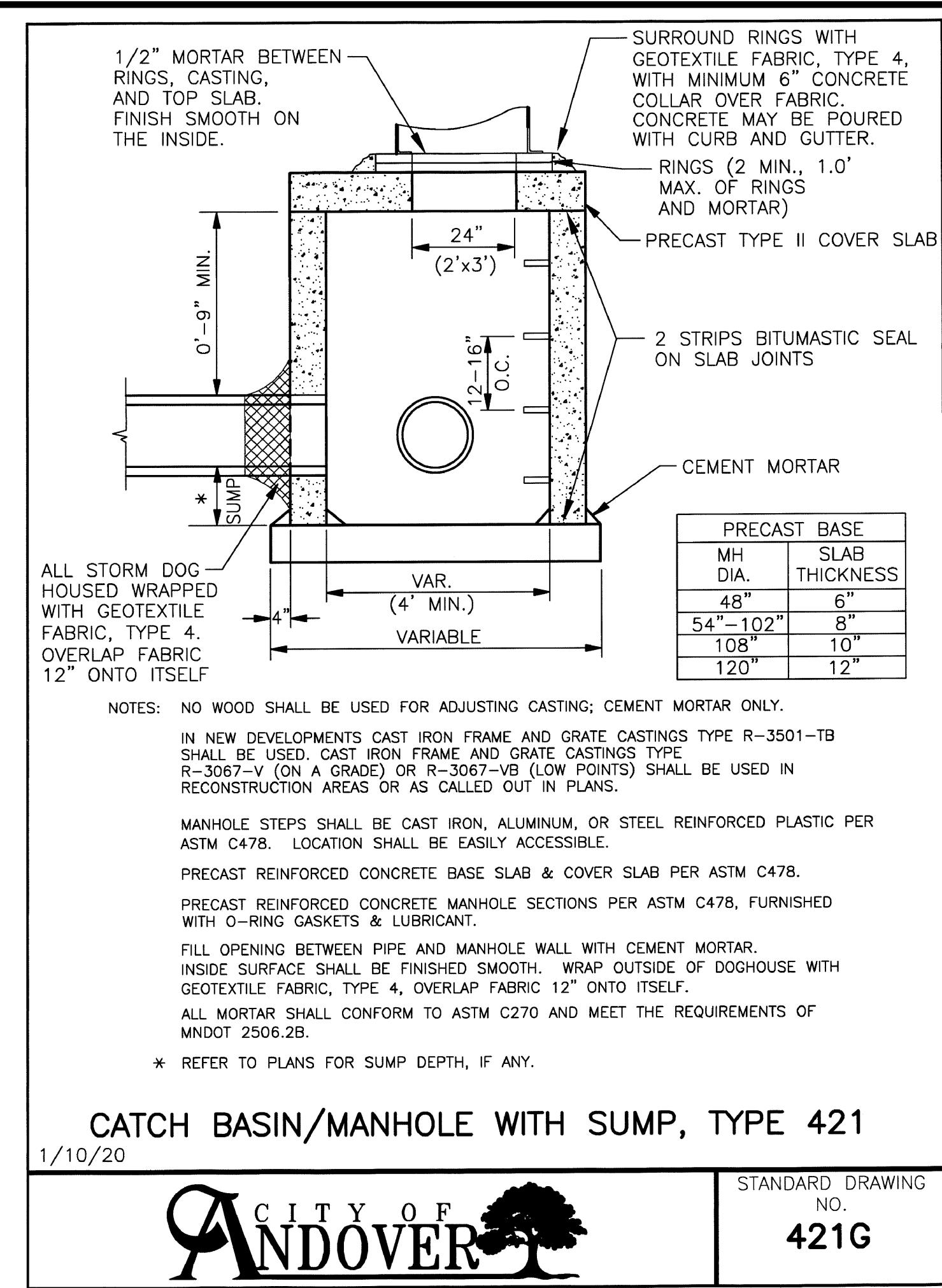
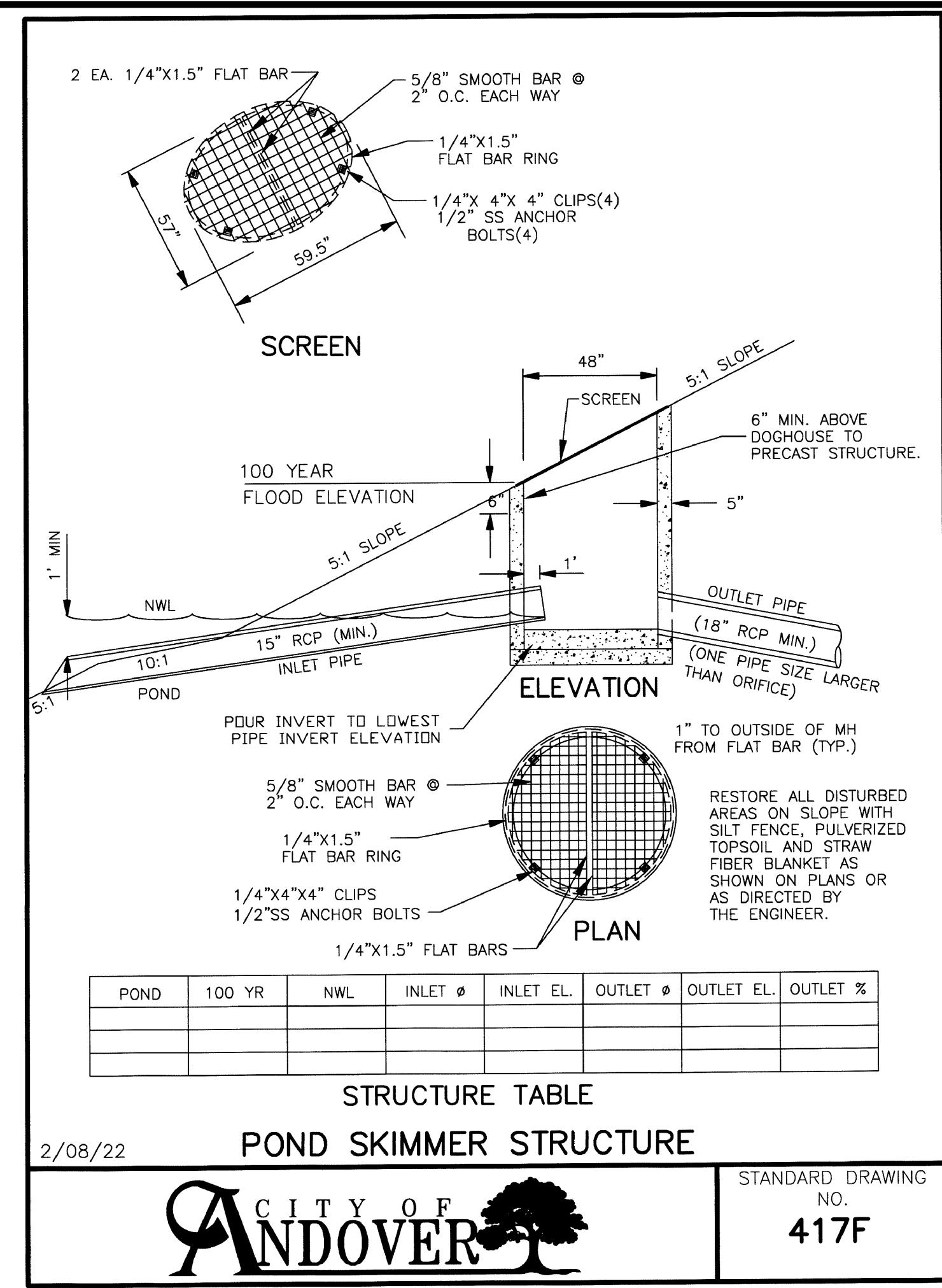
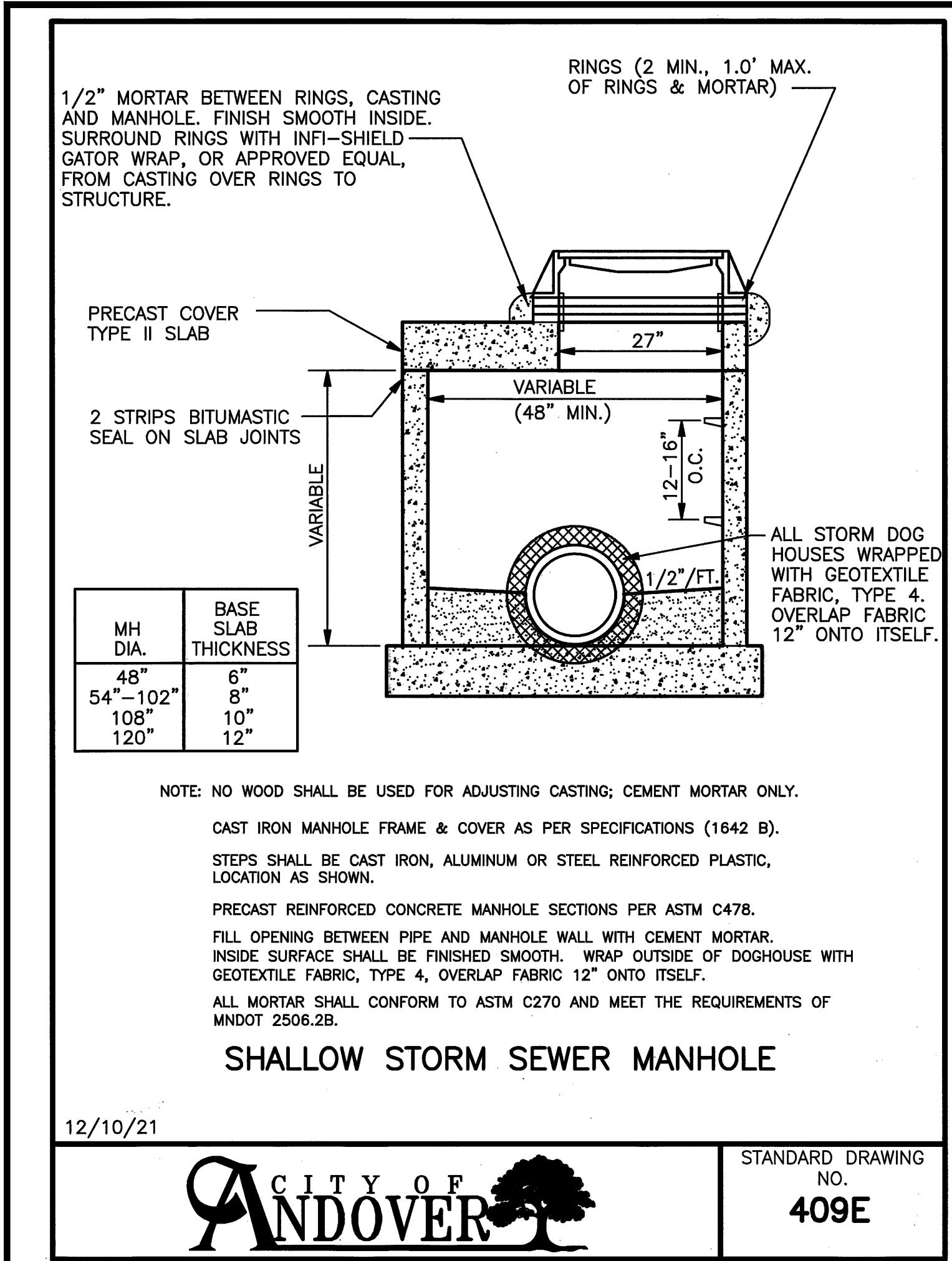
MEADOW CREEK CHURCH

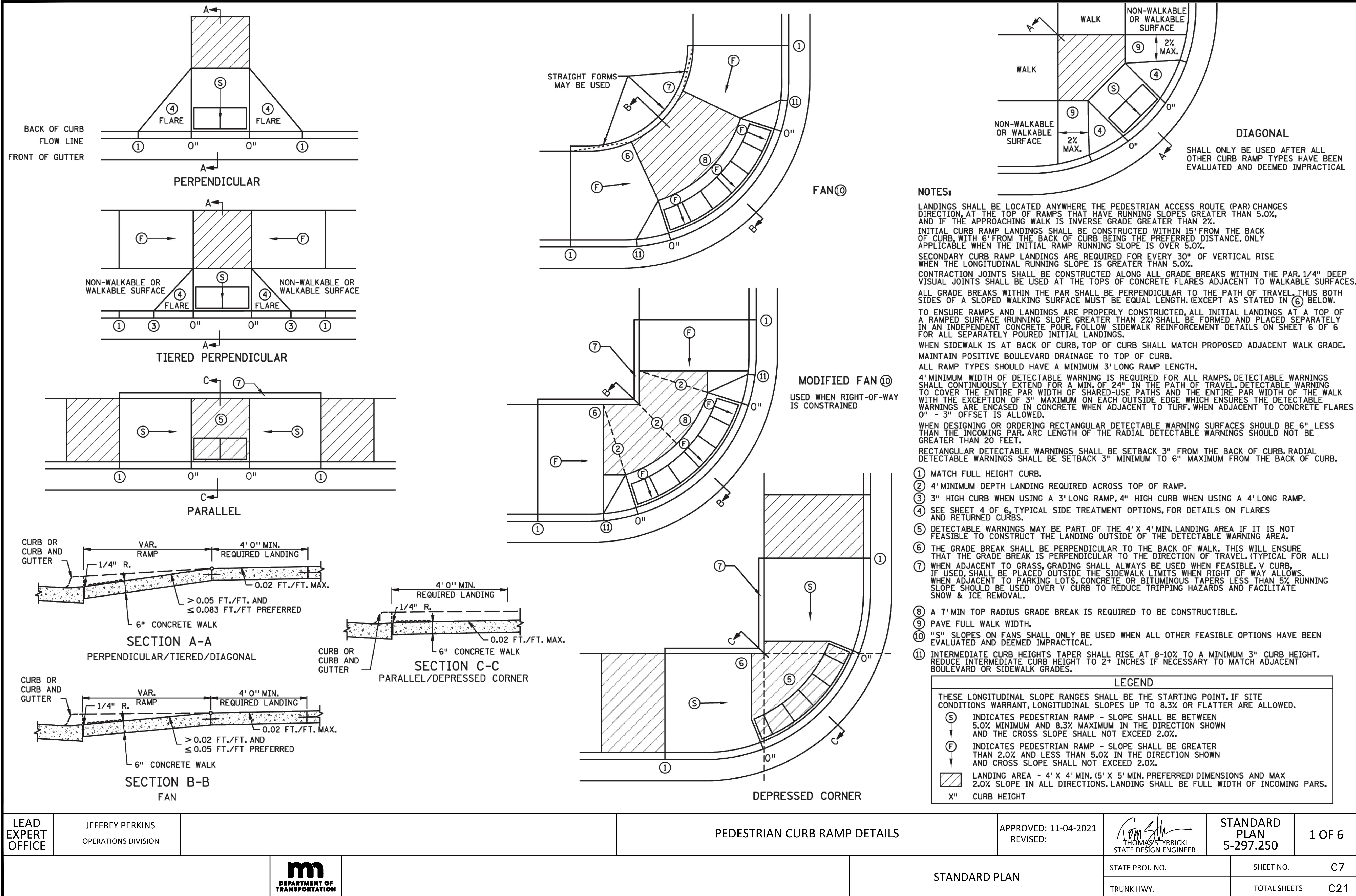
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CITY OF ANDOVER, MINNESOTA

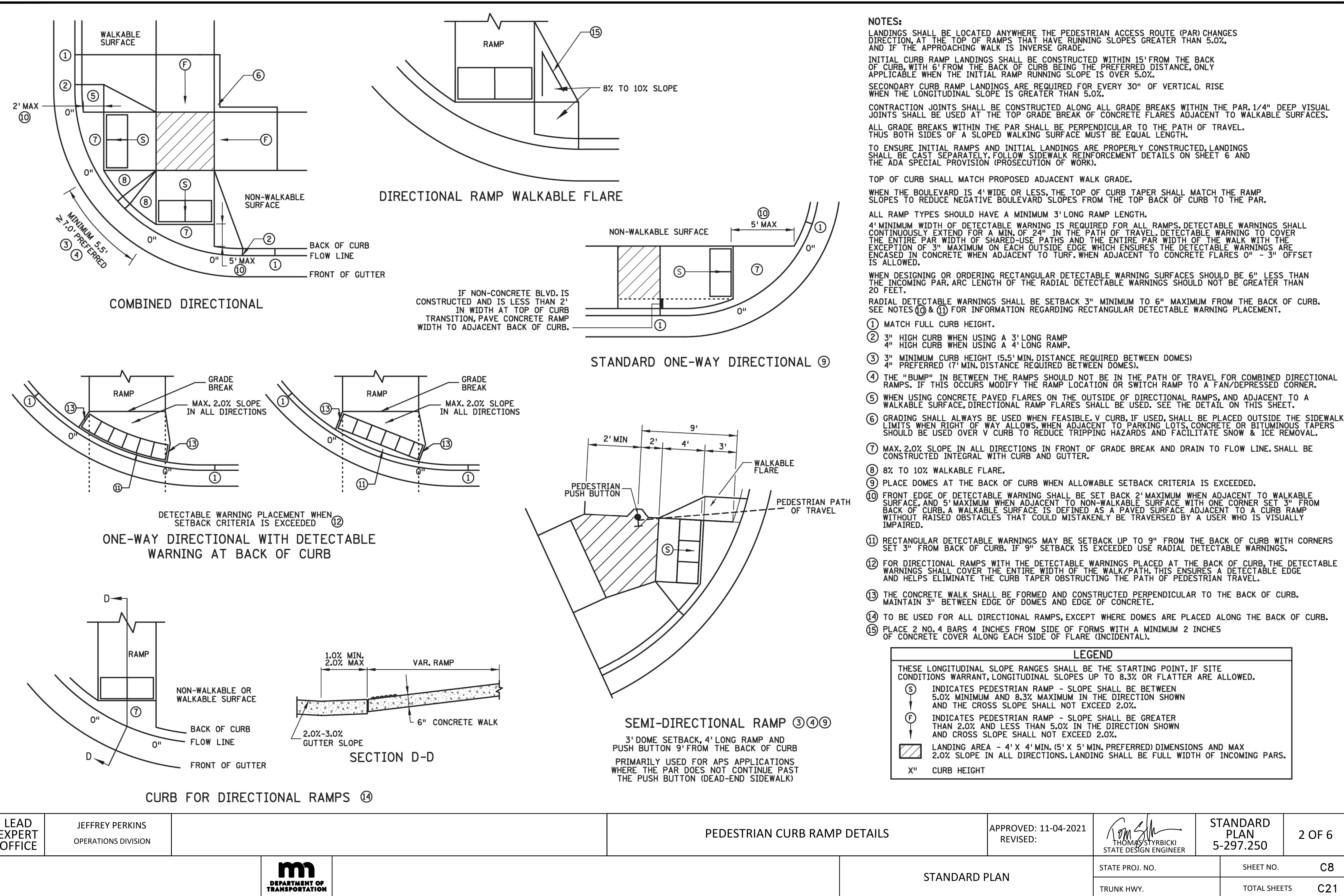
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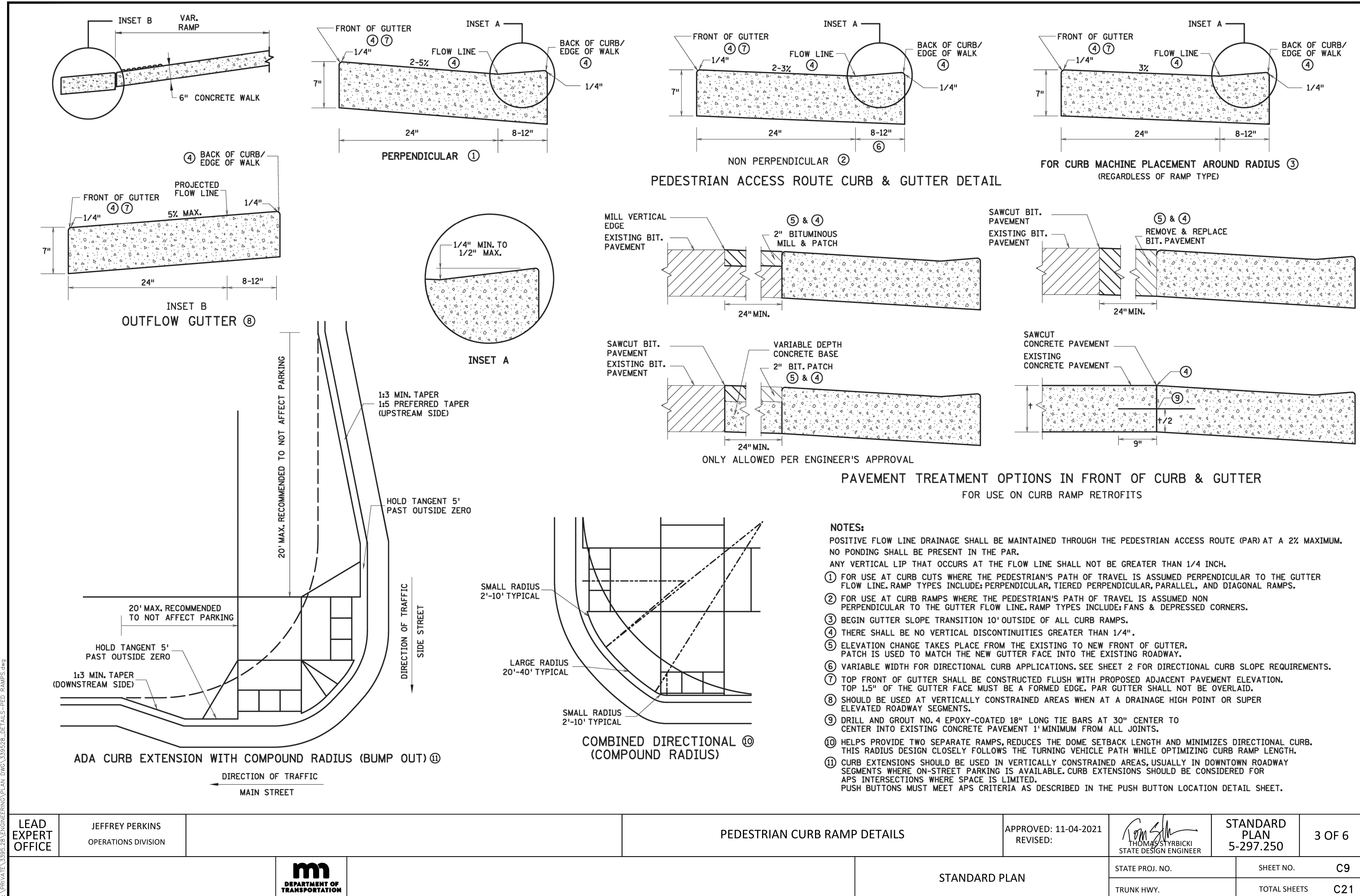
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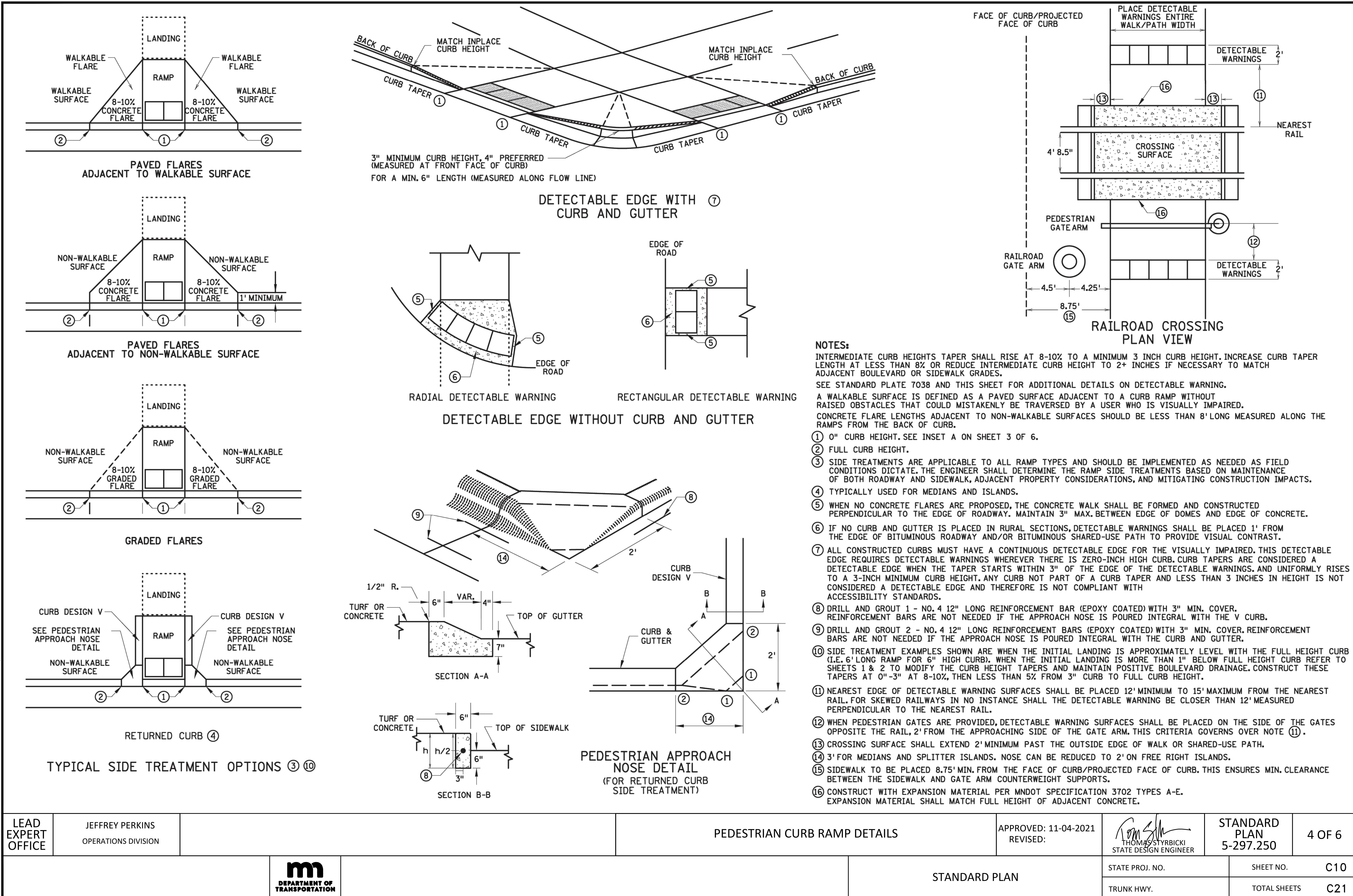


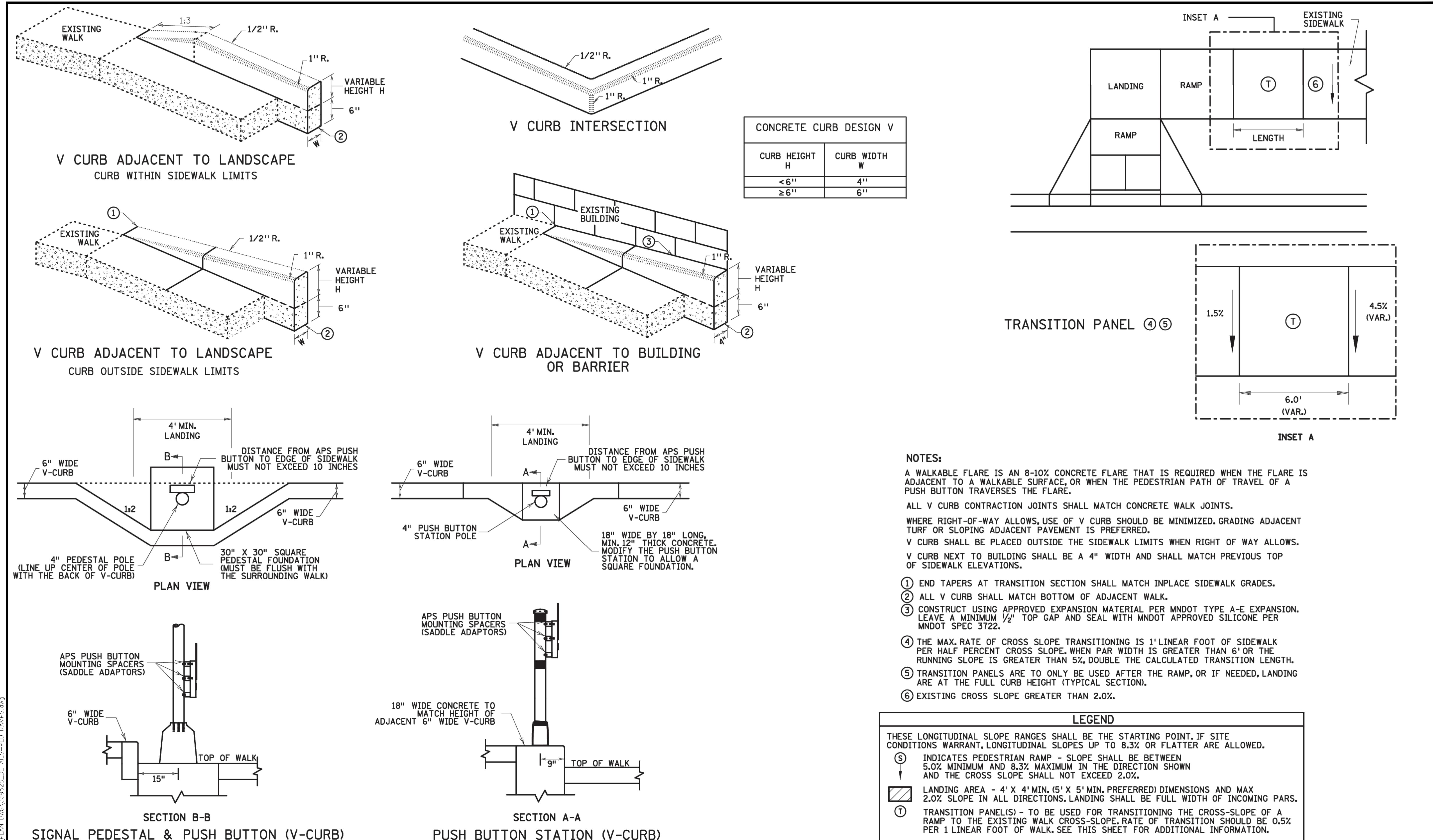


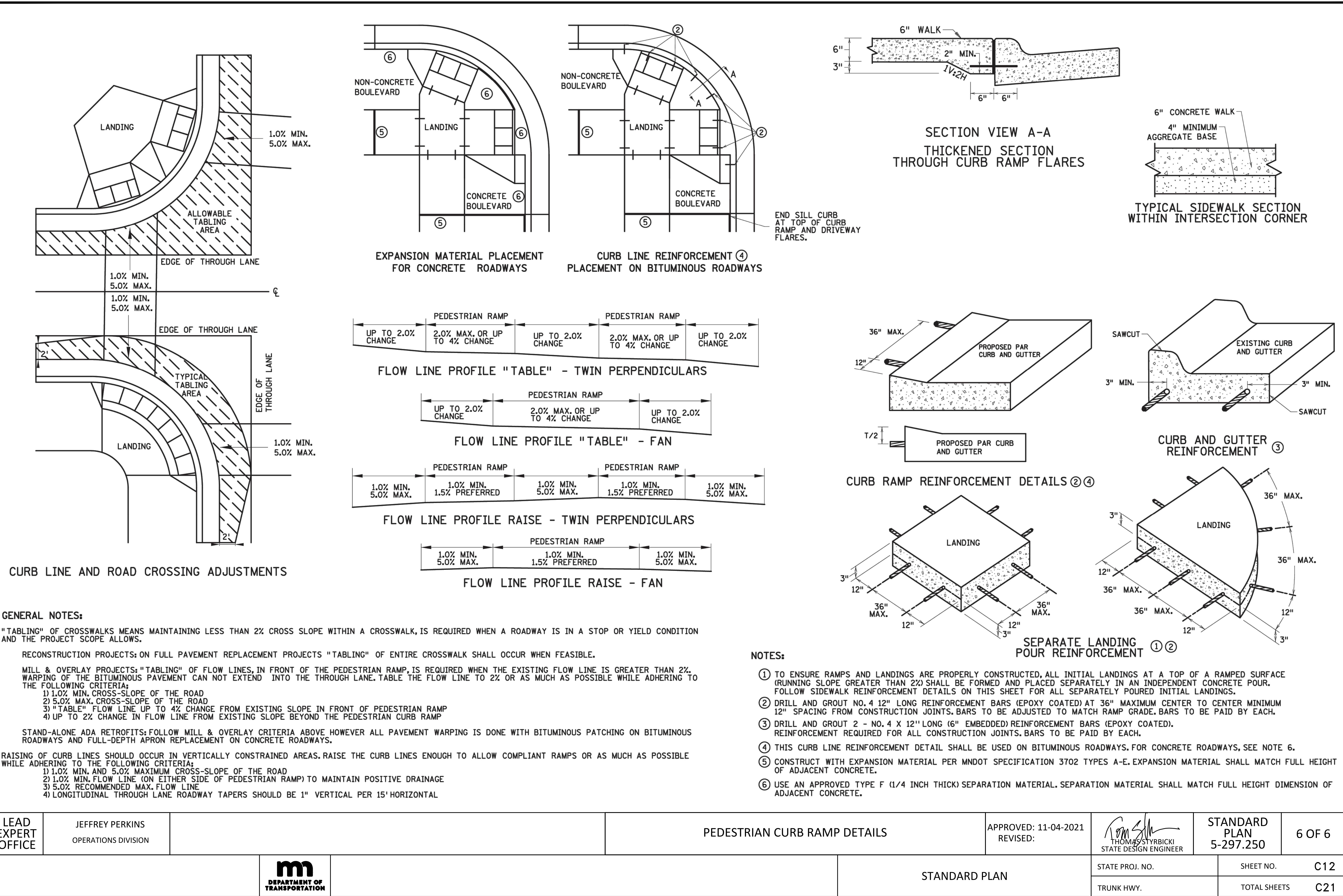


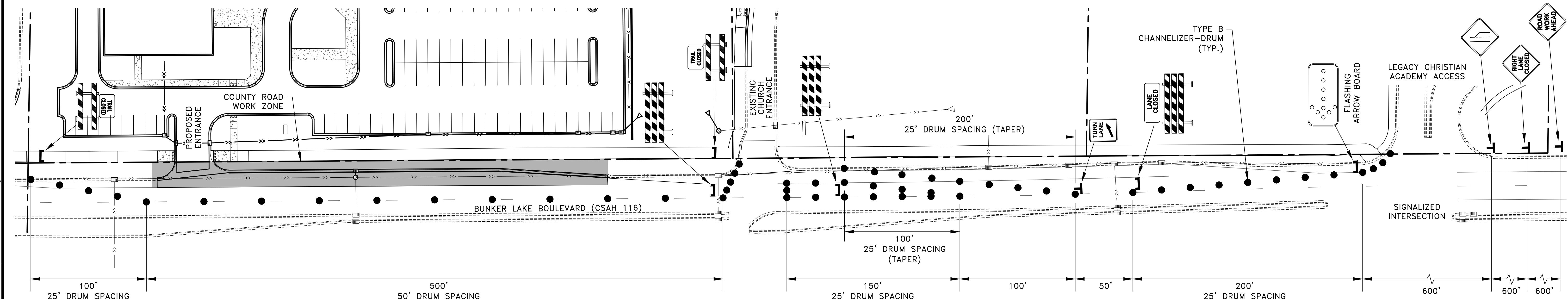
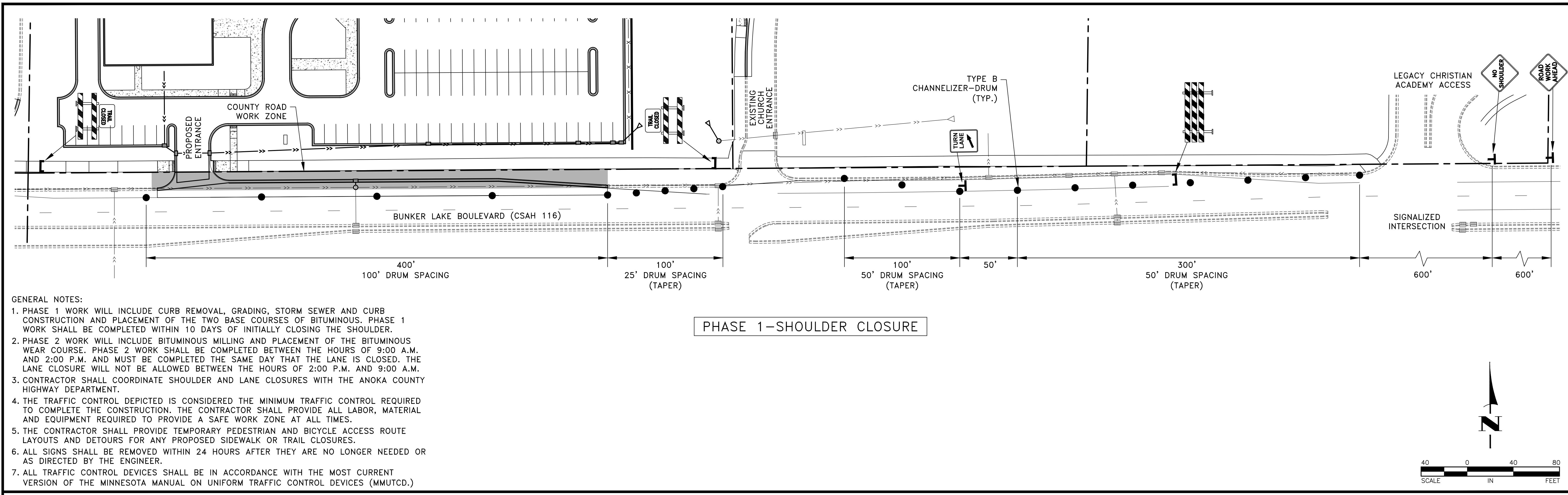




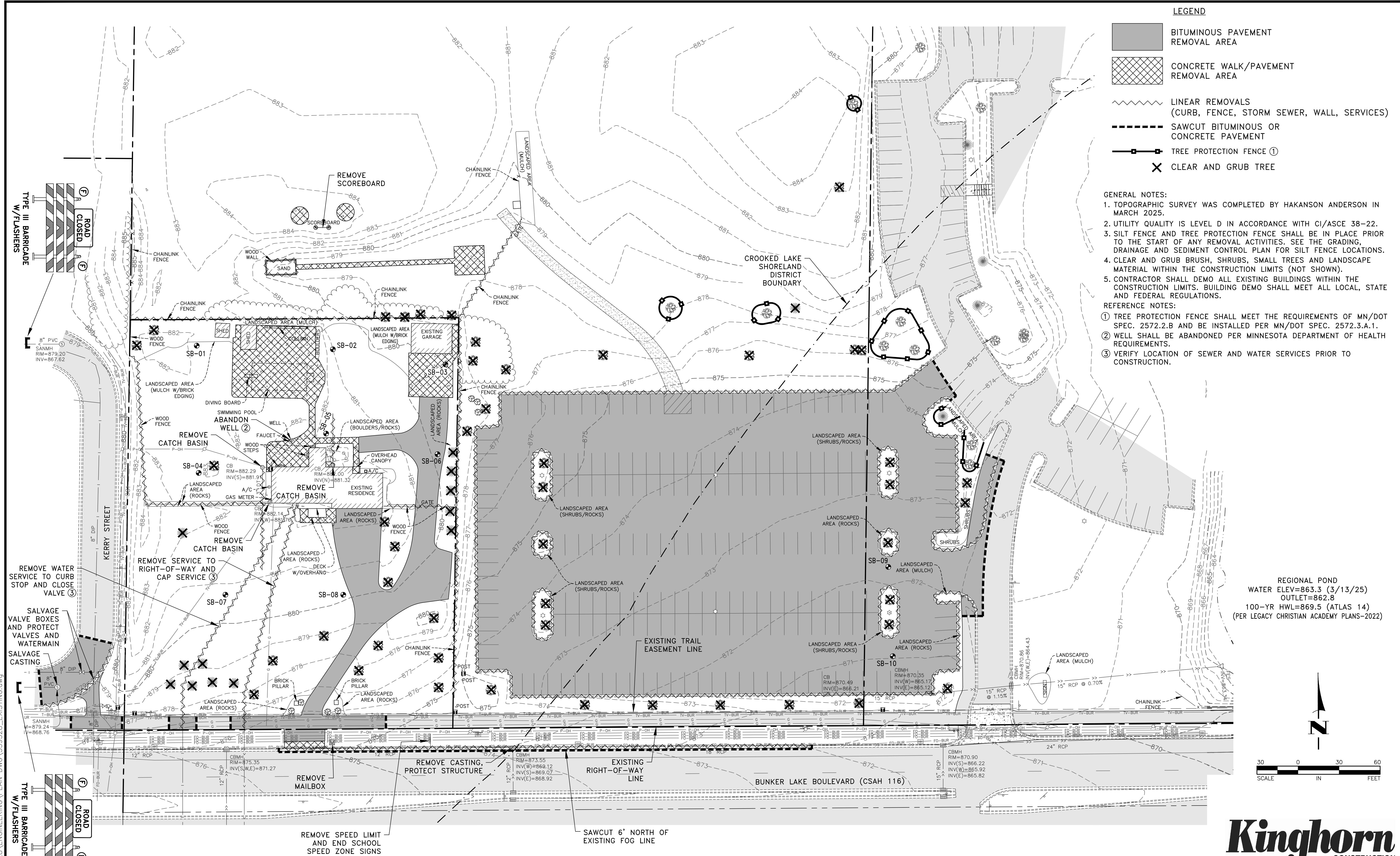








PHASE 2 - LANE CLOSURE



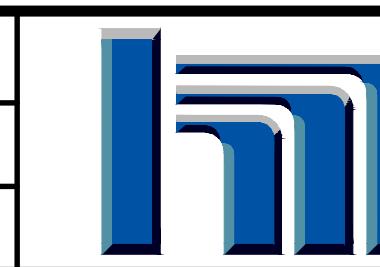
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DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
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9/26/25	PLAN REVISIONS PER CITY REVIEW

I hereby certify that this plan, specifically prepared by me or under my direct supervision, I am a duly Licensed Professional Engineer of the State of Minnesota.

Timothy A. Eggenrohs
TIMOTHY A. EGGENROHS
Date 5/16/25

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MEADOW CREEK CHURCH

EXISTING TOPOGRAPHY AND REMOVALS PLAN

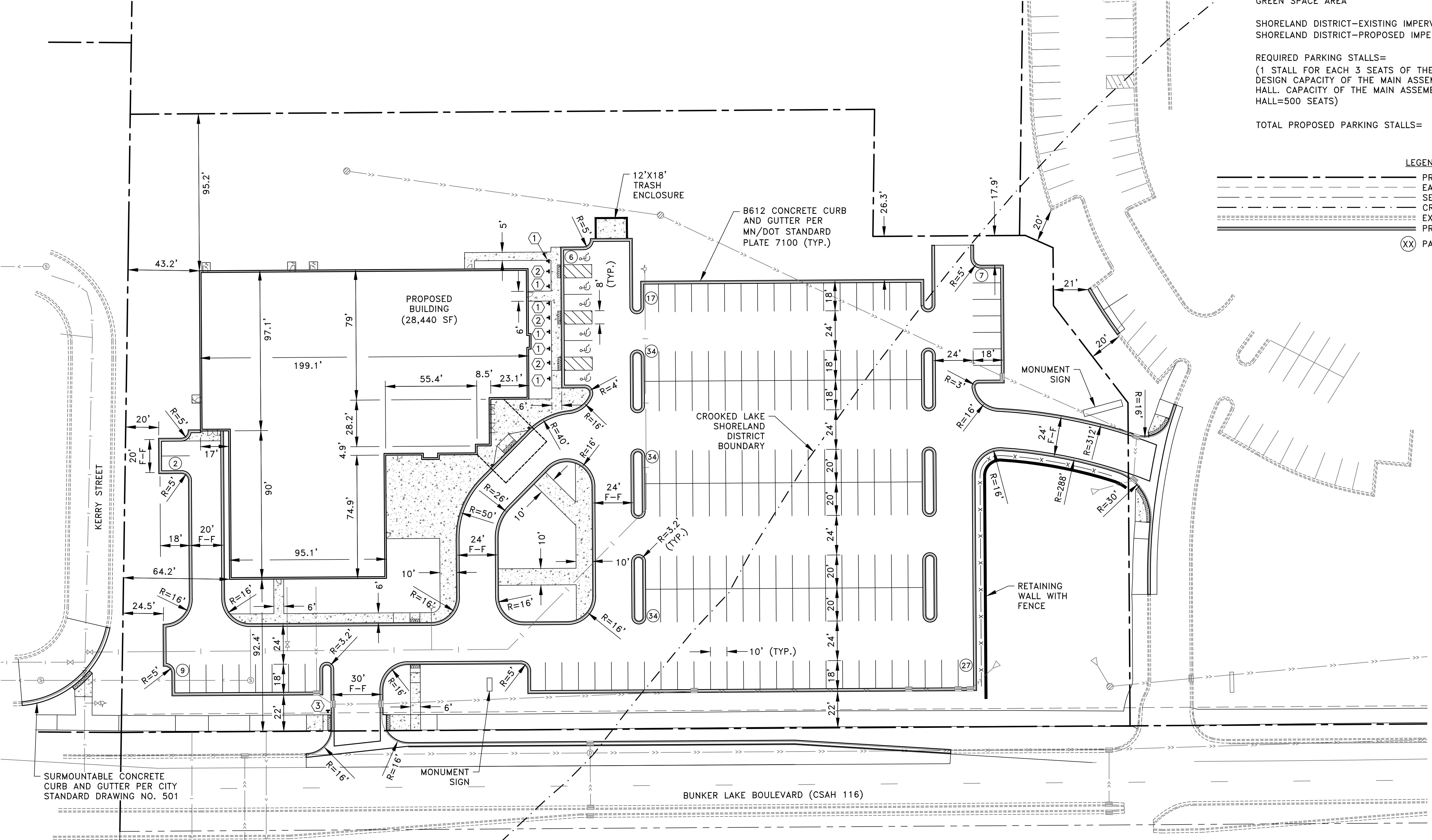
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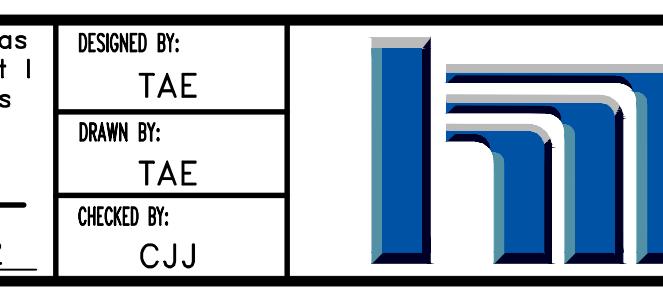
SHEETS

Kinghorn CONSTRUCTION



DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
7/26/25	PLAN REVISIONS PER SITE PLAN CHANGES
9/26/25	PLAN REVISIONS PER CITY REVIEW
11/10/25	PLAN REVISIONS PER CITY REVIEW

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Timothy A. Eggerhuis, P.E.
Date 5/16/25 Lic. No. 43362



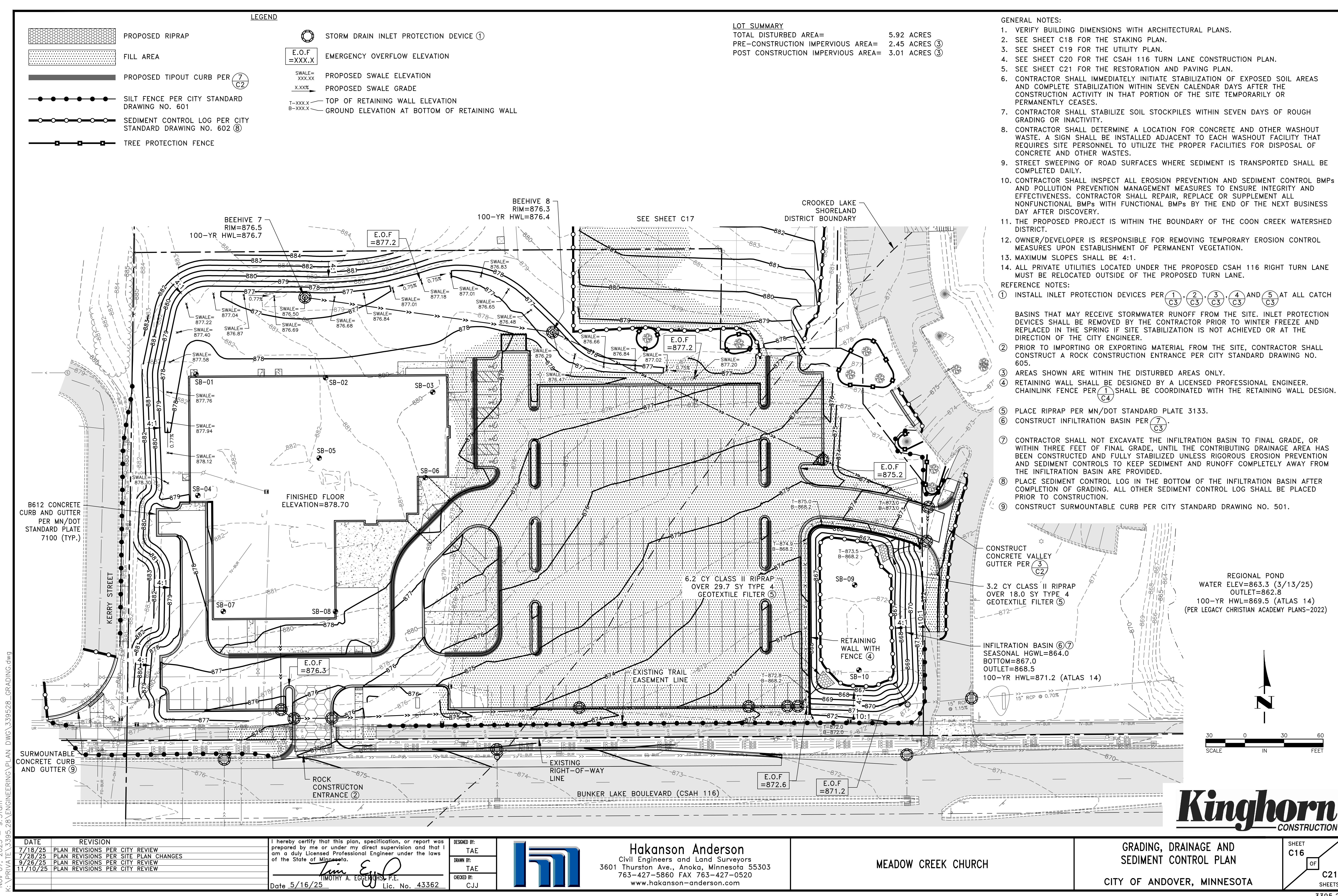
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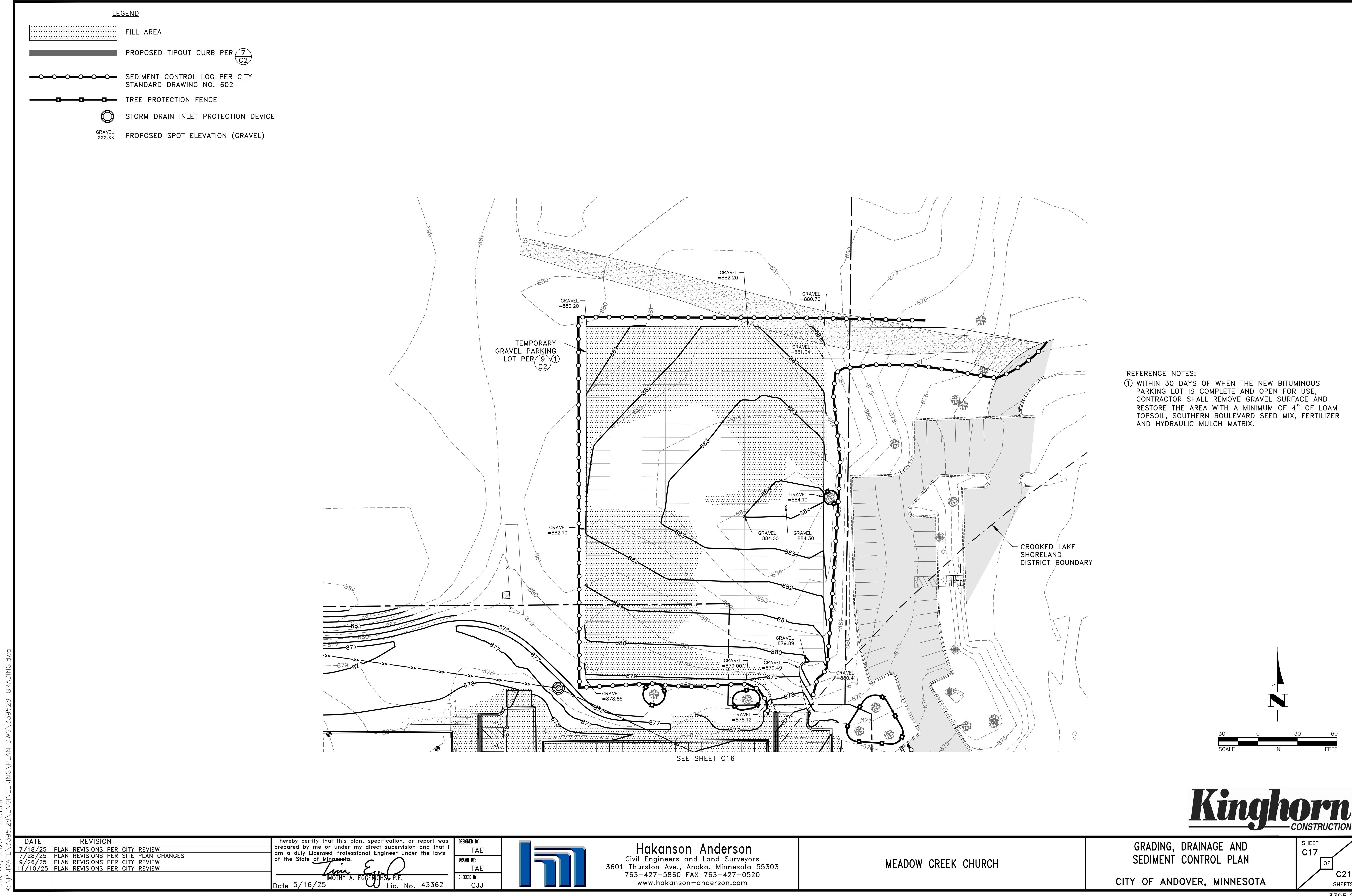
MEADOW CREEK CHURCH

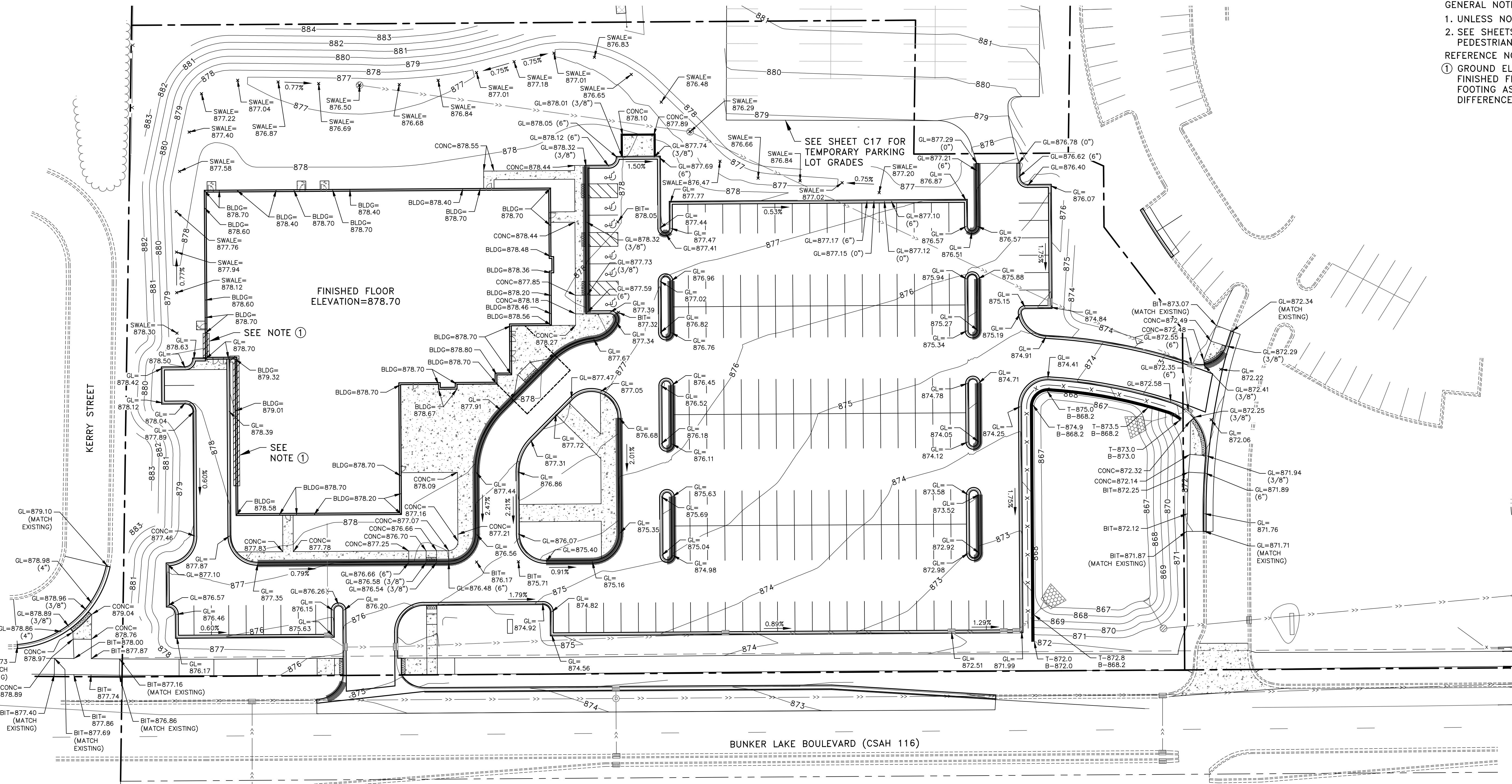
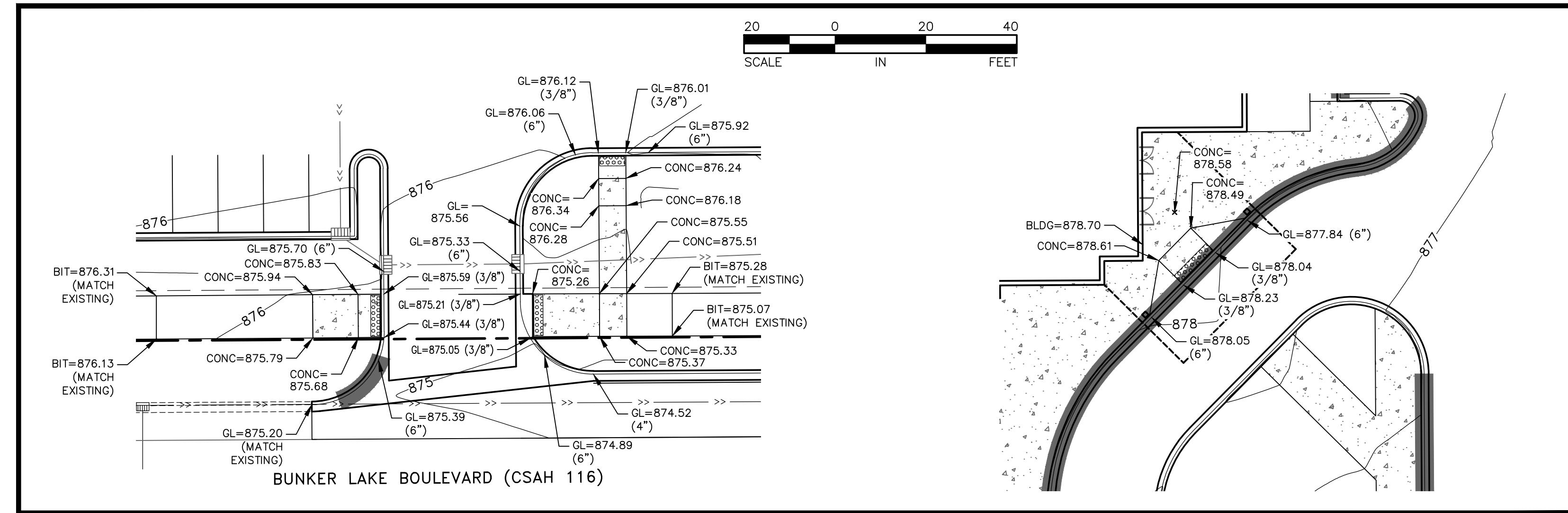
SITE PLAN
CITY OF ANDOVER, MINNESOTA
C15 OF C21 SHEETS

Kinghorn
CONSTRUCTION

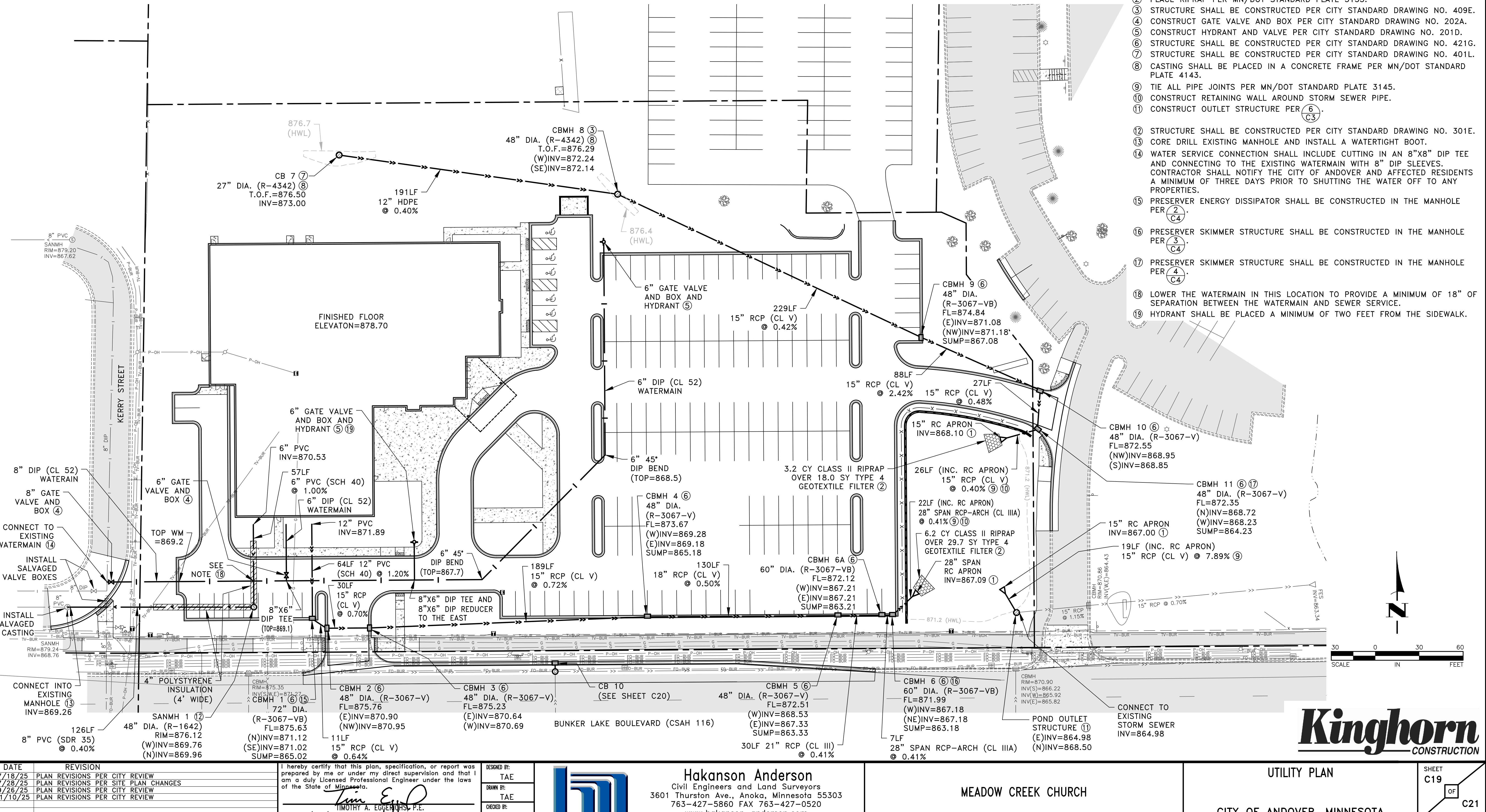
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Kinghorn
CONSTRUCTION



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DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
7/28/25	PLAN REVISIONS PER SITE PLAN CHANGES
9/26/25	PLAN REVISIONS PER CITY REVIEW
11/10/25	PLAN REVISIONS PER CITY REVIEW

I hereby certify that this plan, specifically prepared by me or under my direction, is a duly Licensed Professional Engineer of the State of Minnesota. *T. E.*

TIMOTHY A. EGGERICHSS, P.E.
Date 5/16/25 Lic. No. 433

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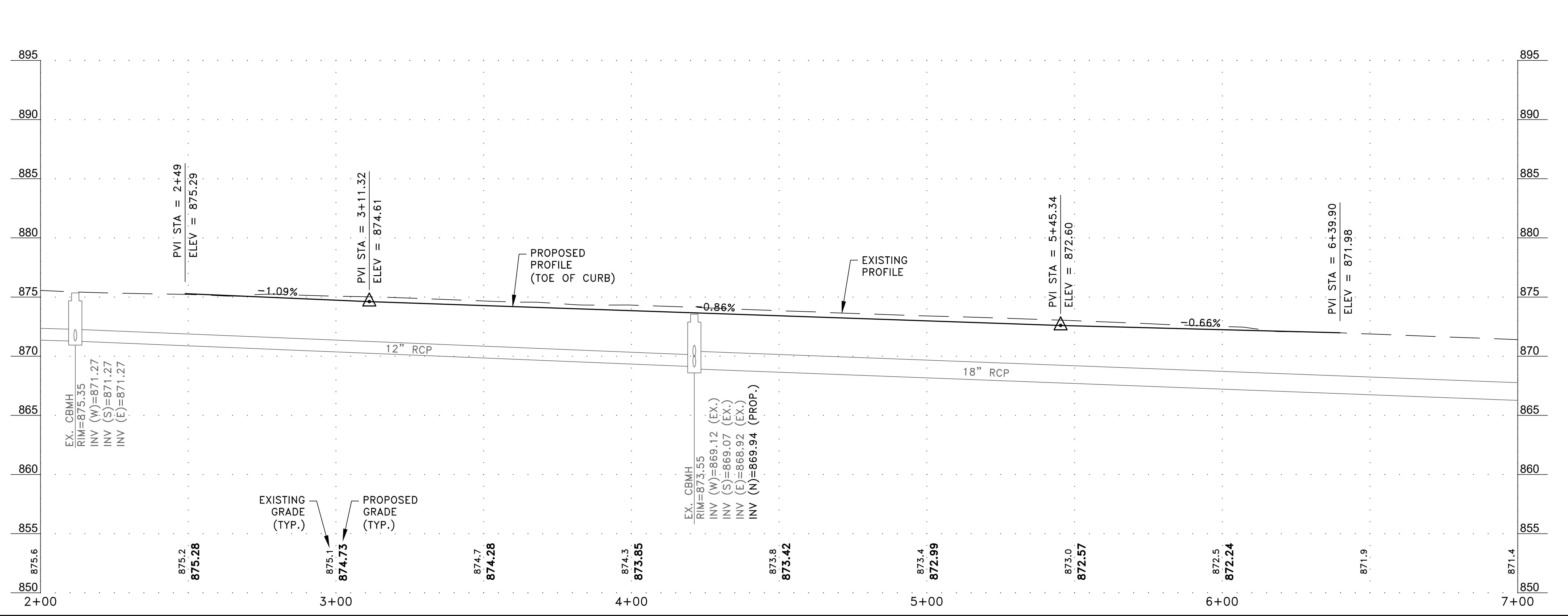
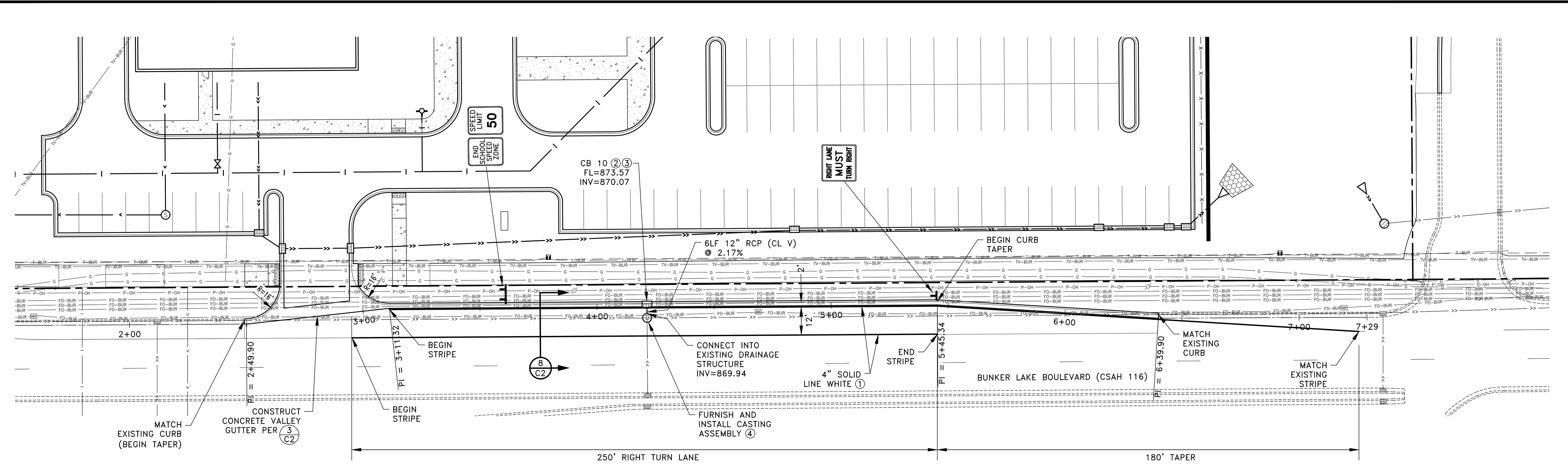
MEADOW CREEK CHURCH

UTILITY PLAN

SHEET
C19

OF

C21
SHEETS



GENERAL NOTES:
ALL PRIVATE UTILITIES LOCATED UNDER THE PROPOSED CSAH 116 RIGHT TURN LANE MUST BE RELOCATED OUTSIDE OF THE PROPOSED TURN LANE.

REFERENCE NOTES:

STRIPPING MATERIAL SHALL BE GROUND IN
4" PREFORM TAPE.

CATCH BASIN SHALL MEET THE
REQUIREMENTS OF MN/DOT STANDARD
PLATE 4006—DESIGN G.

CASTING SHALL BE PER MN/DOT
STANDARD PLATES 4125, 4134 AND 4154.

CASTING SHALL BE PER MN/DOT
STANDARD PLATES 4101 (CASTING 700-4)
AND 4110 (CASTING 715).

Kinghorn CONSTRUCTION

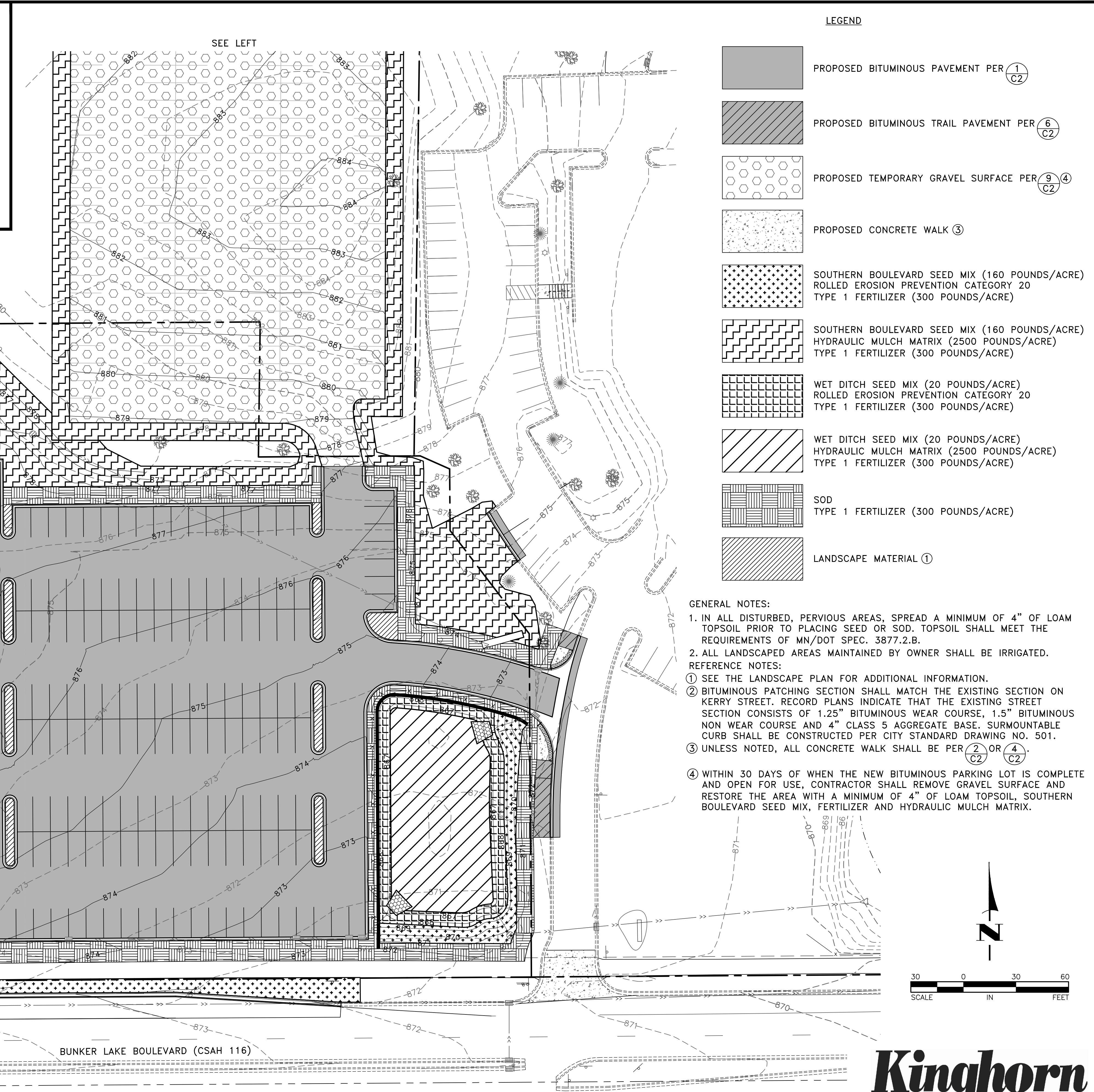
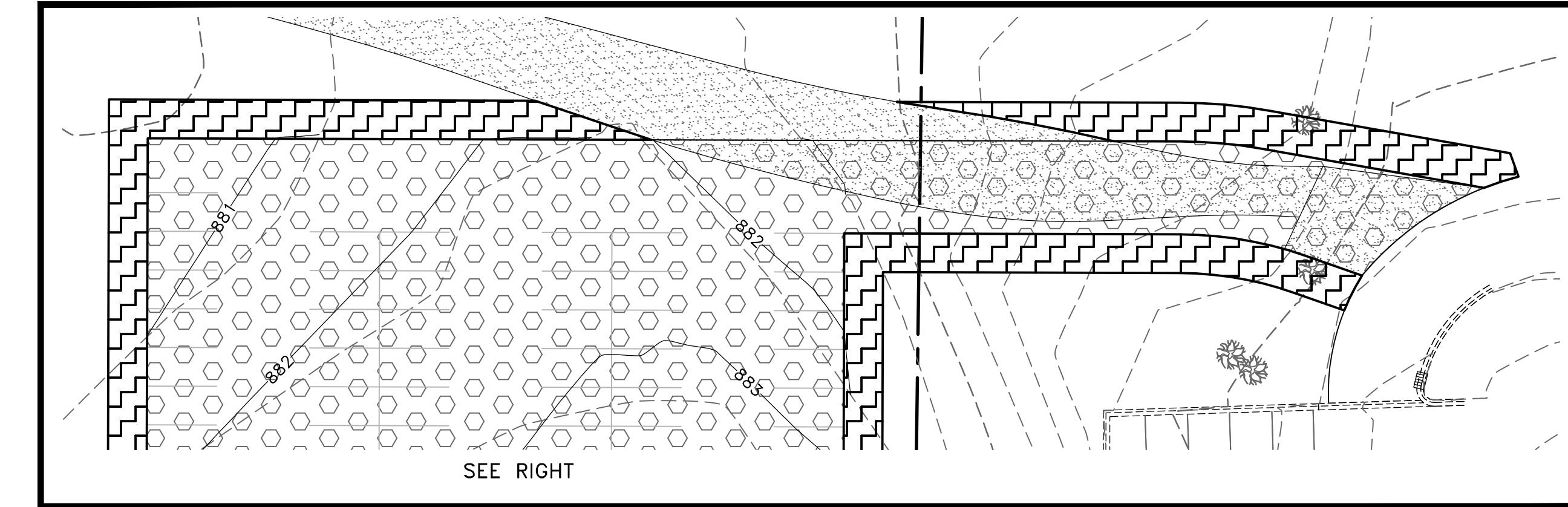
TURN LANE CONSTRUCTION PLAN

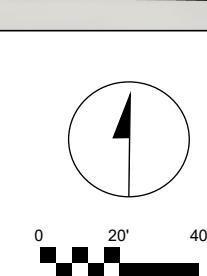
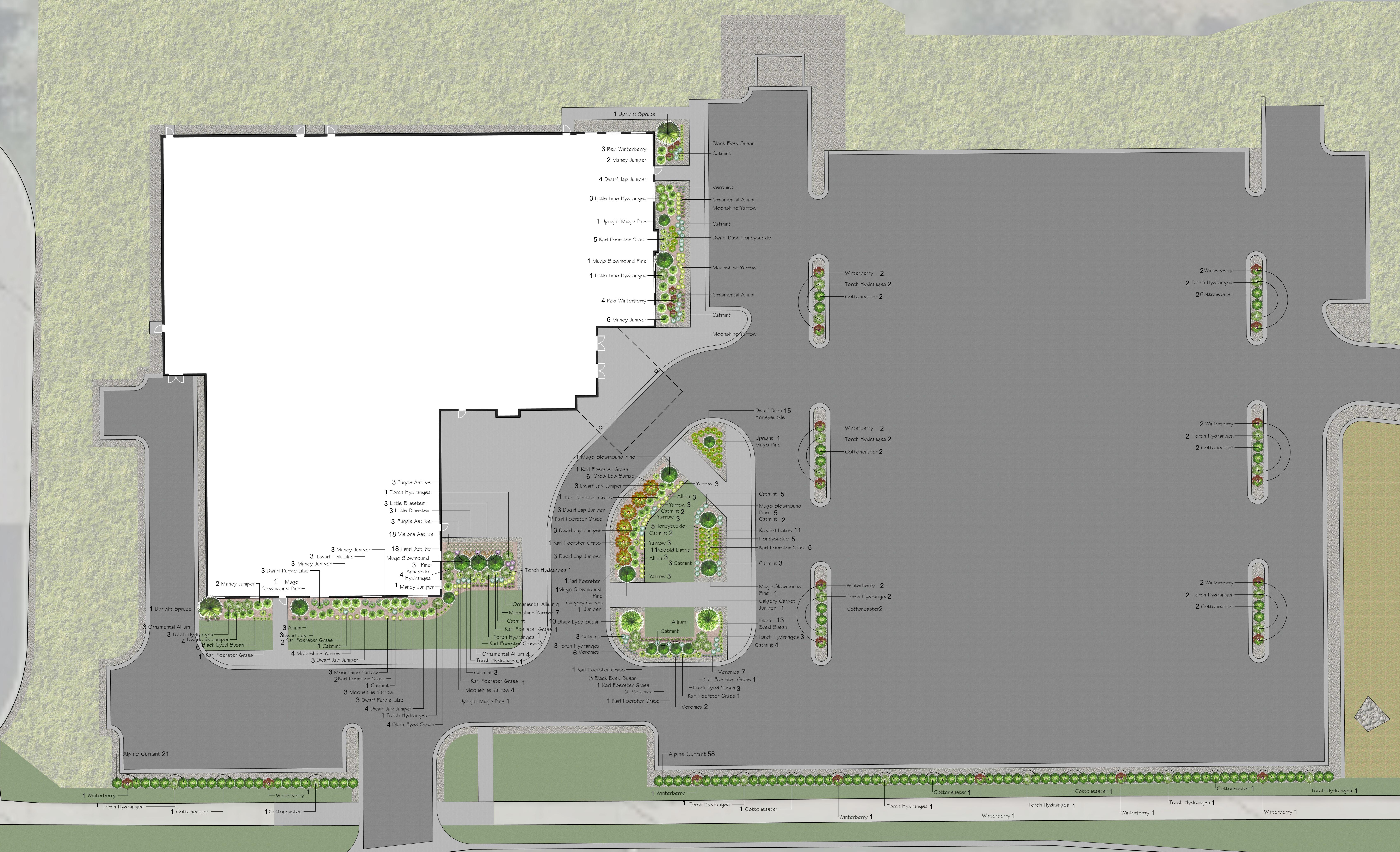
CSAH 116

CITY OF ANDOVER, MINNESOTA

Hakanson Anderson

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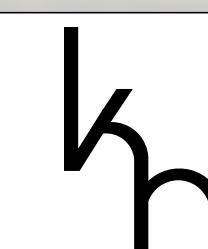




REVISIONS			
NO.	BY	DATE	COMMENTS
01	MK	250717	REVISE PER COMMENTS
02	MK	250925	REVISE PER COMMENTS
03	MK	251107	REVISE PER COMMENTS

I hereby certify that this plan, plan set, specification
report was prepared by me or under my
supervision and that I am duly registered Landscape
Architect under the laws of the State of Maine.

DRAWN BY
MK
CHECKED BY



KLEIN-NORBY
LANDSCAPE & SITE DESIGN
www.norbylandscape.com
mklein@norbylandscape.com
763.257.6210

	PROJECT #
	ANDOVER
	MN

LANDSCAPE PLAN

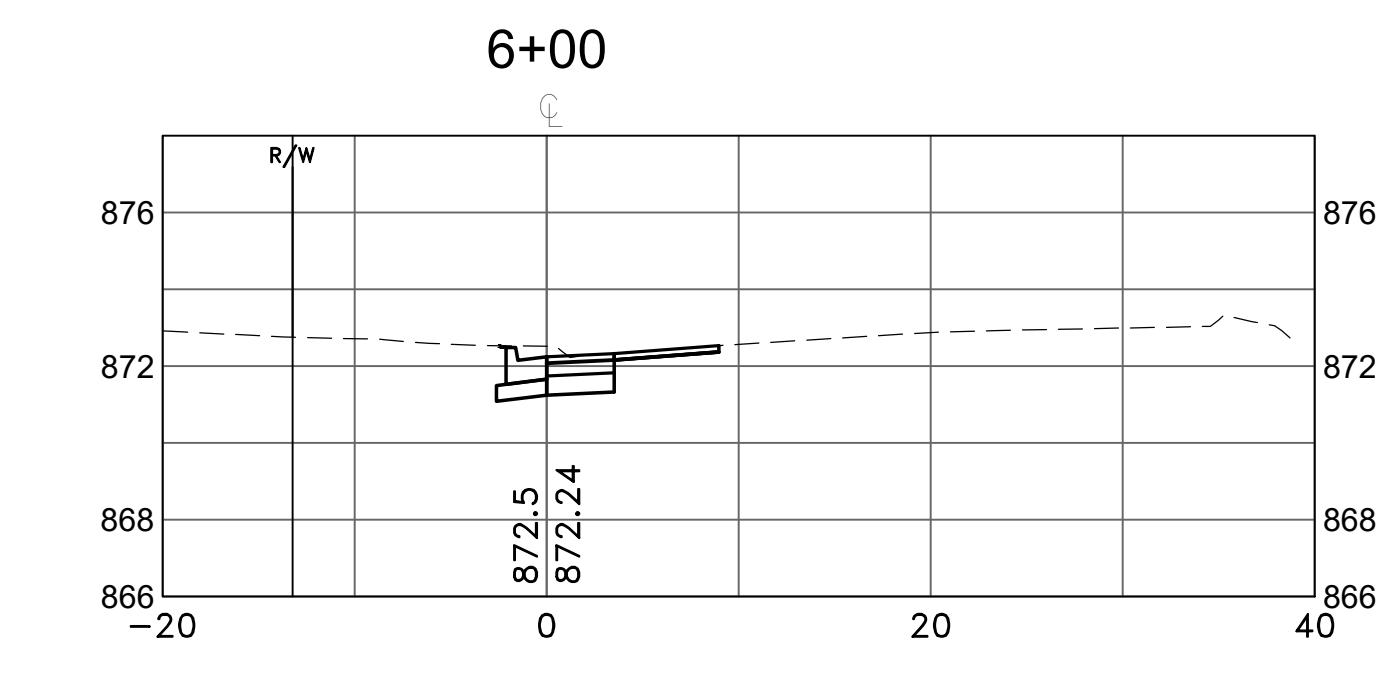
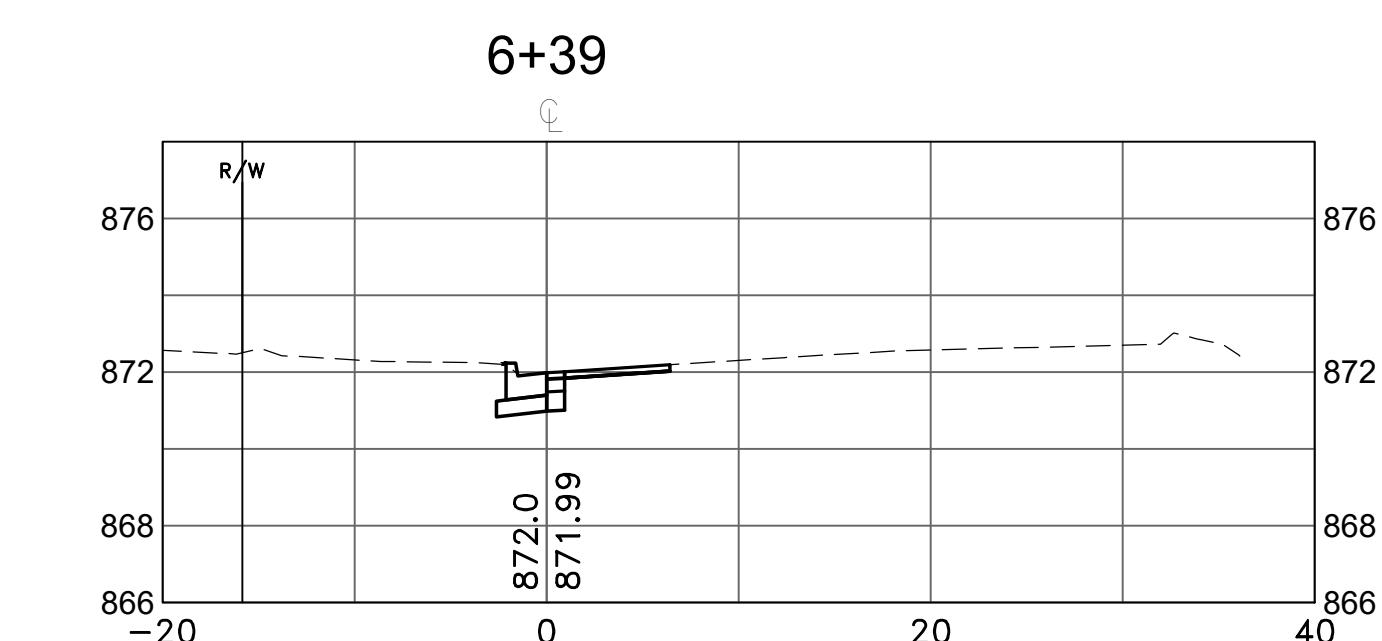
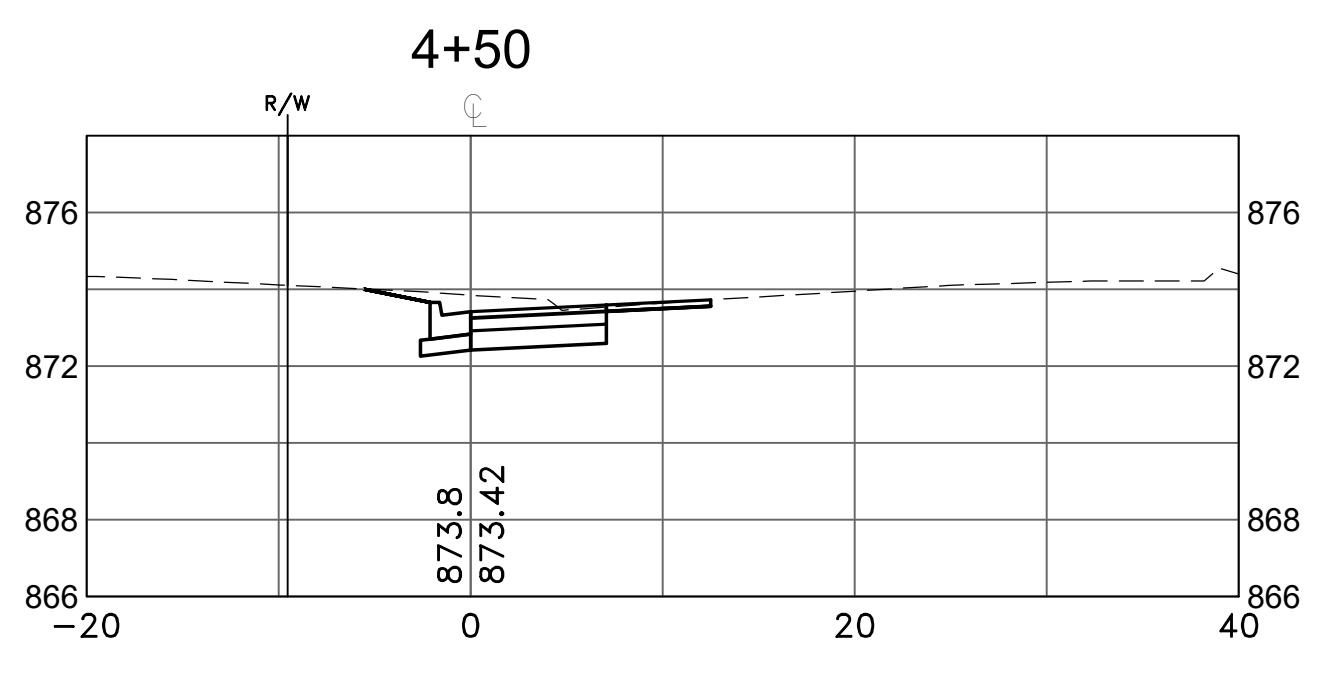
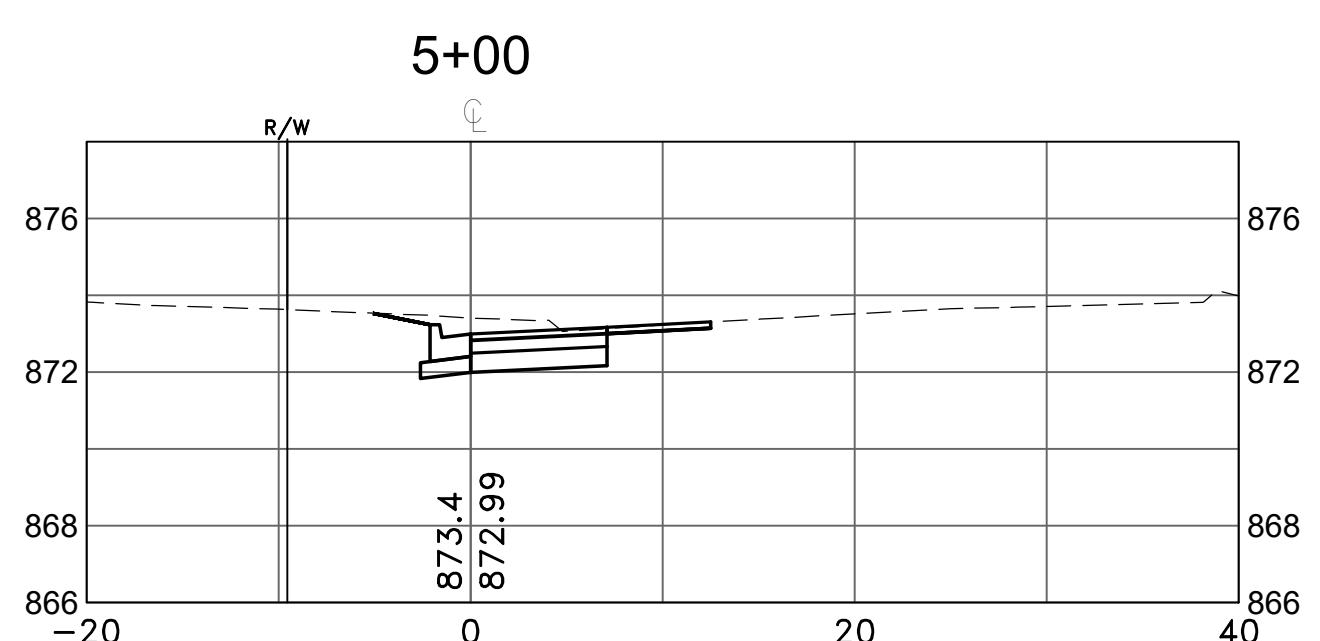
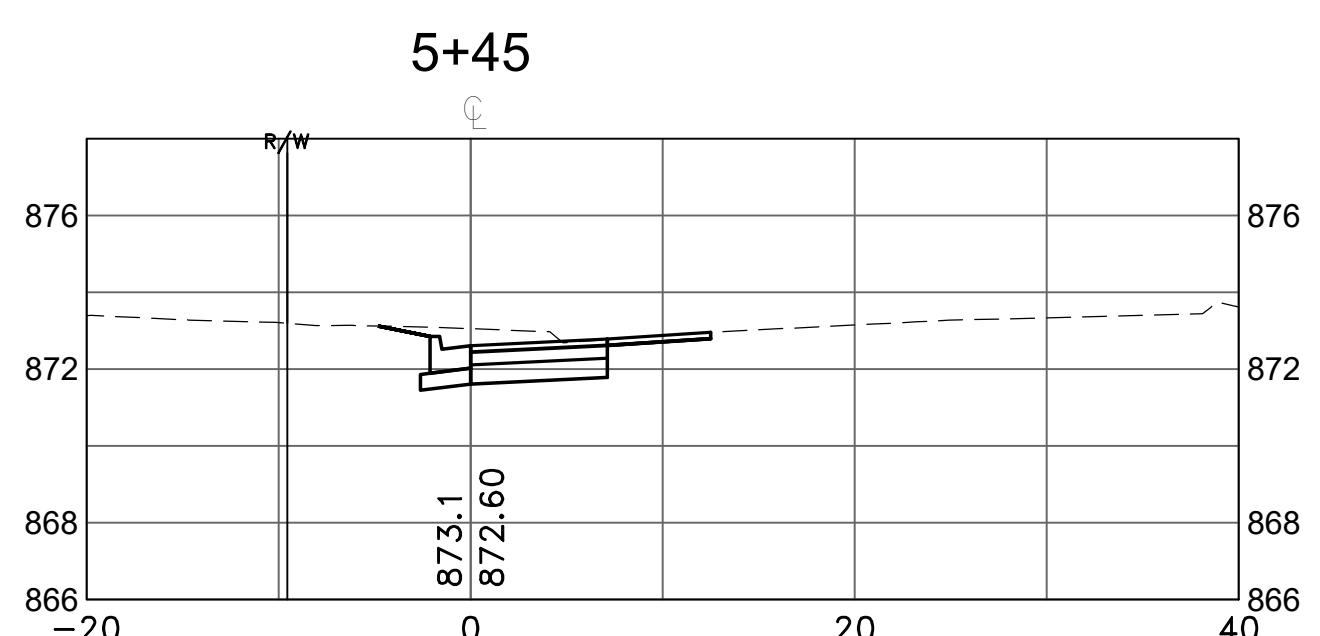
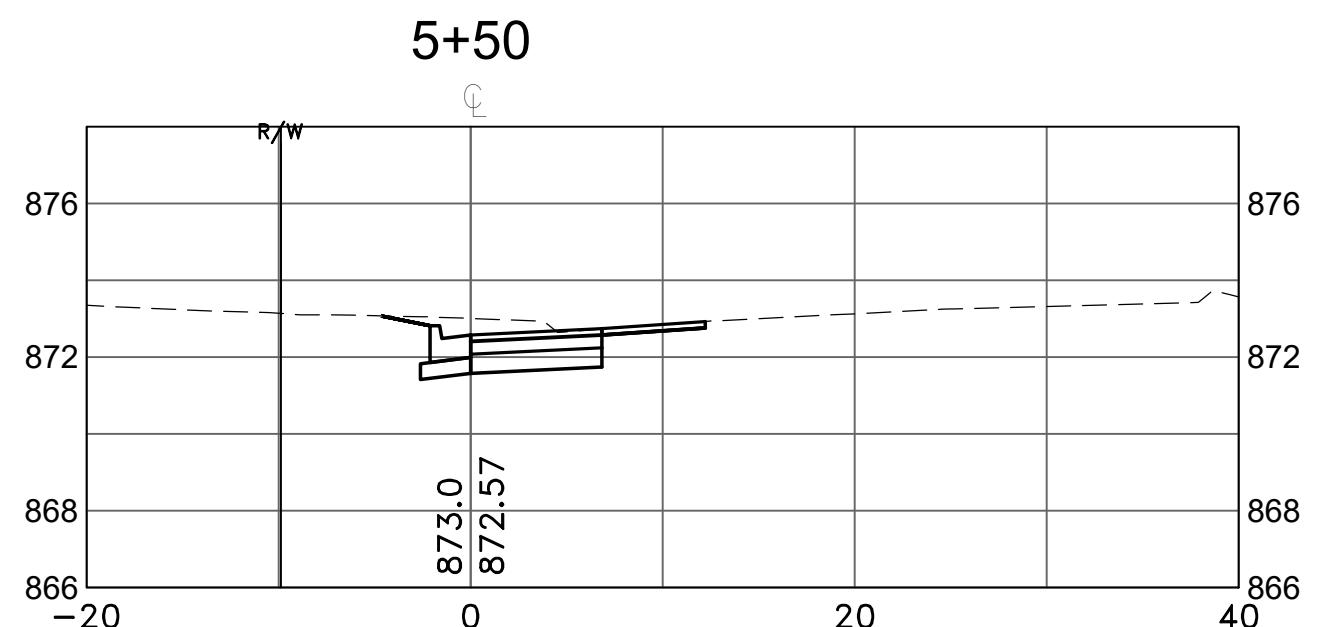
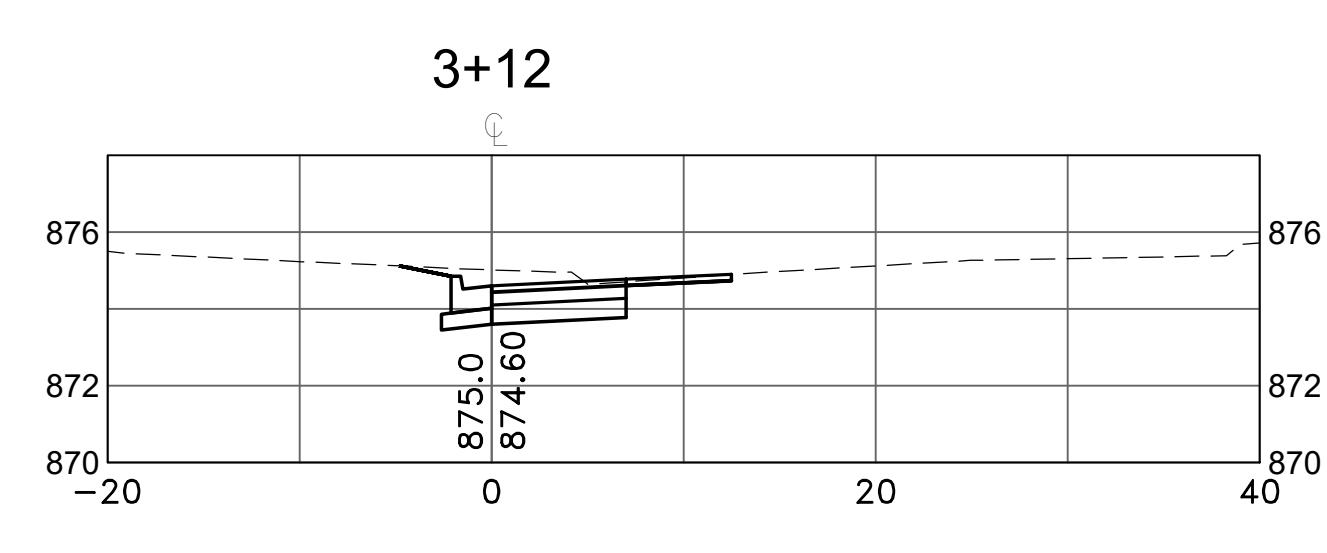
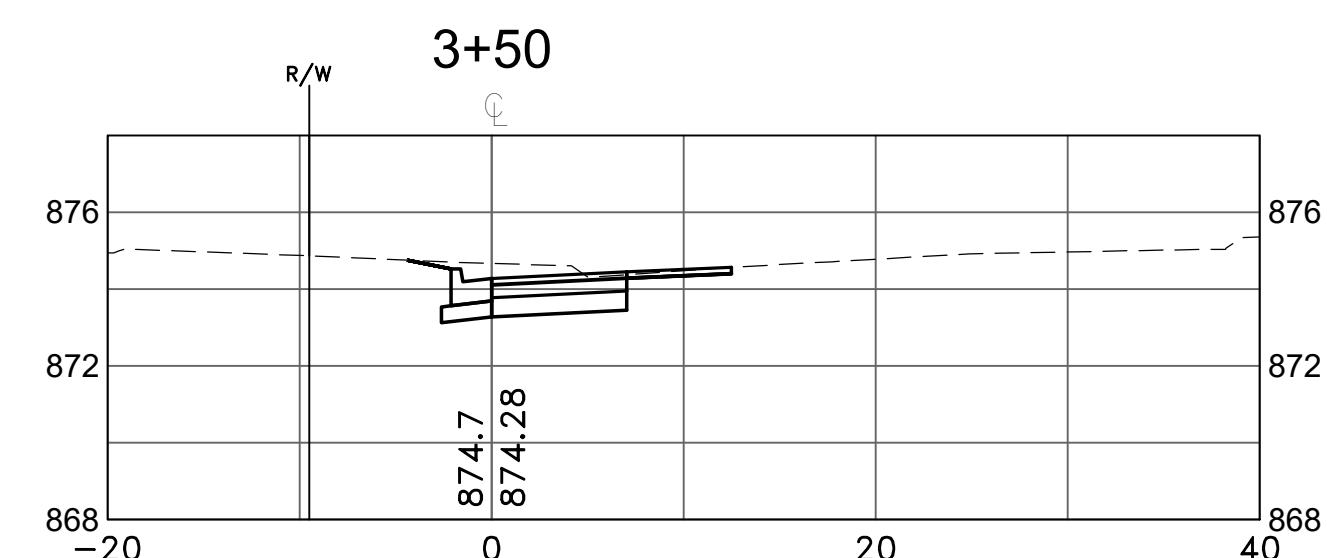
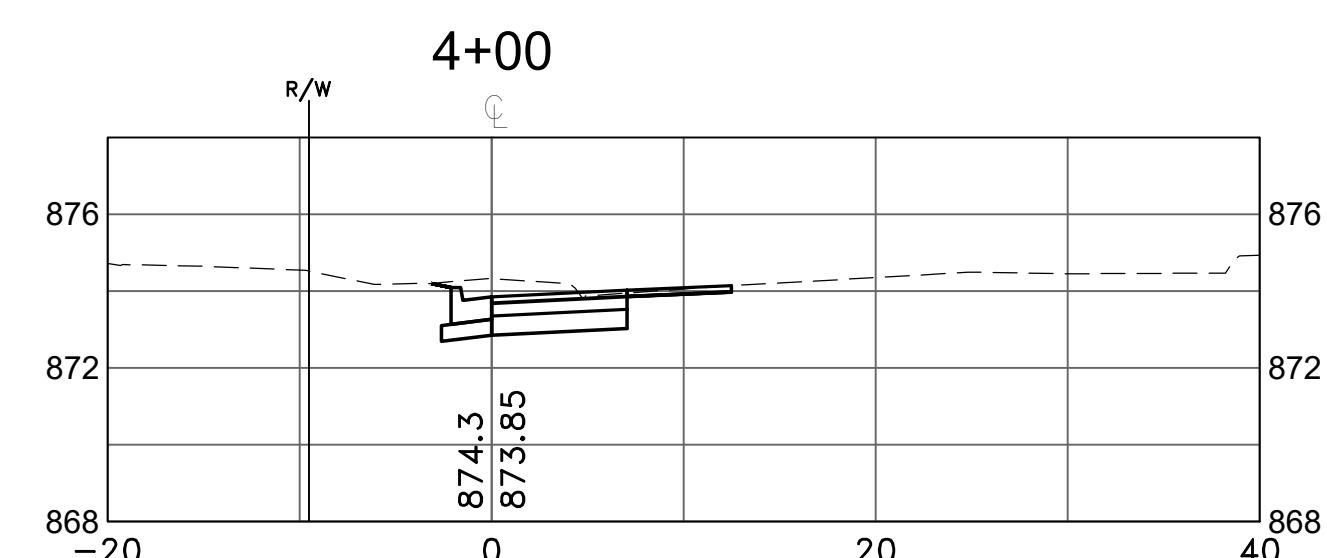
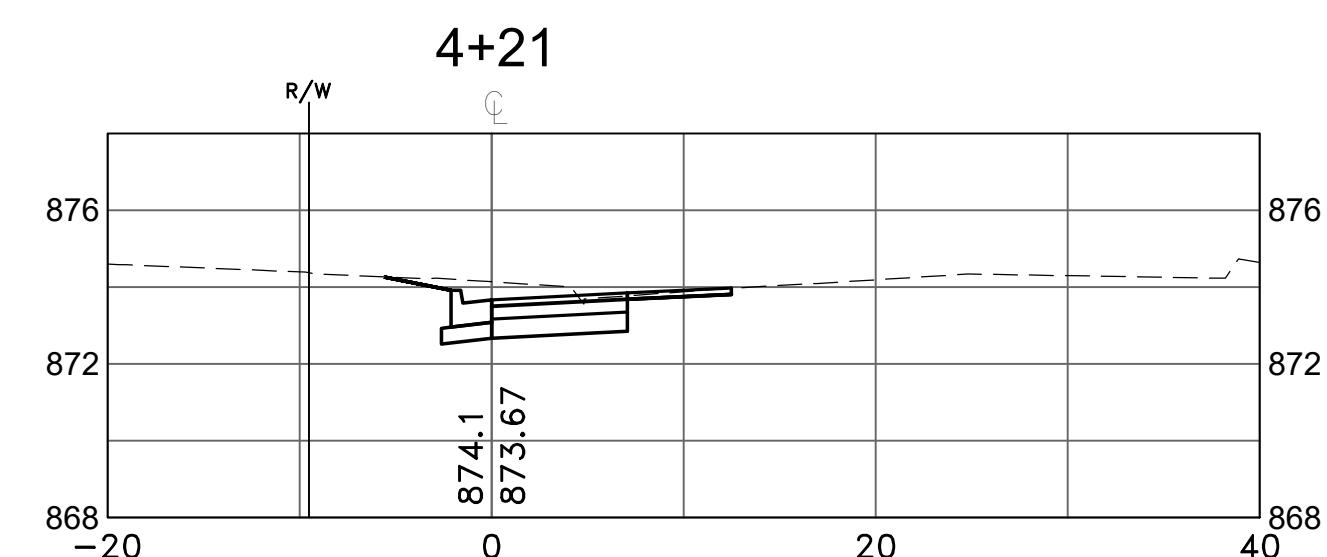
MEADOW CREEK CHURCH

KINGHORN

FILE #

L2

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DATE	REVISION
7/18/25	PLAN REVISIONS PER CITY REVIEW
8/20/25	PLAN REVISIONS PER COUNTY REVIEW

DESIGNED BY:

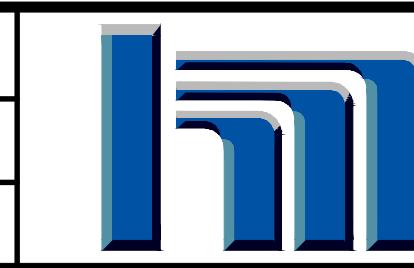
TAE

DRAWN BY:

TAE

CHECKED BY:

CJJ



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MEADOW CREEK CHURCH

CROSS SECTIONS
CSAH 116
CITY OF ANDOVER, MINNESOTA

SHEET
X1
OF
X1
SHEETS

Kinghorn
CONSTRUCTION