

ASCENSION WAUKESHA - HOSPITAL

CITY OF WAUKESHA
WAUKESHA COUNTY, WISCONSIN

ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA DEVELOPMENT HANDBOOK & INFRASTRUCTURE SPECIFICATIONS. WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISIONS TO THE PLANS AND/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.



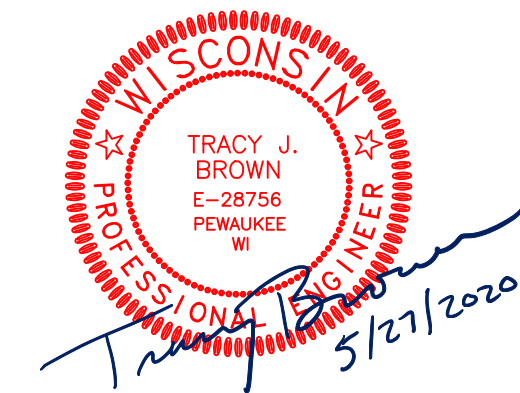
PROJECT LOCATION:
CITY OF WAUKESHA
WAUKESHA COUNTY, WI



LOCATION MAP
SE 1/4 OF SE 1/4, SECTION 8,
TOWNSHIP 6N, RANGE 19E
(N.T.S.)

SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-------------|---|
| C0.0 | COVER SHEET |
| C1.0 | SITE PLAN |
| C2.0 | GRADING & DRAINAGE PLAN |
| C2.1 | ADA GRADING DETAILS |
| C3.0 | EROSION CONTROL PLAN |
| C4.0 | UTILITY PLAN |
| C5.0 - C5.2 | NOTES & DETAILS |
| L1.0 | LANDSCAPE PLAN |
| L2.0 | LANDSCAPE NOTES, DETAILS AND SPECIFICATIONS |



CREATE THE VISION TELL THE STORY

MADISON | MILWAUKEE | WAUSAU
APPLETON | KENOSHA | CHICAGO
COEUR D'ALENE

MILWAUKEE REGIONAL OFFICE
W238 N1610 BUSSE ROAD, SUITE 100
WAUKESHA, WISCONSIN 53188
P. 262.513.0666

CLIENT:
**PHILO WILKE
PARTNERSHIP**

CLIENT ADDRESS:
11275 S. SAM HOUSTON PARKWAY
HOUSTON, TX 77031

PROJECT:
**ASCENSION
WAUKESHA - HOSPITAL**

PROJECT LOCATION:
WAUKESHA, WI
WAUKESHA COUNTY

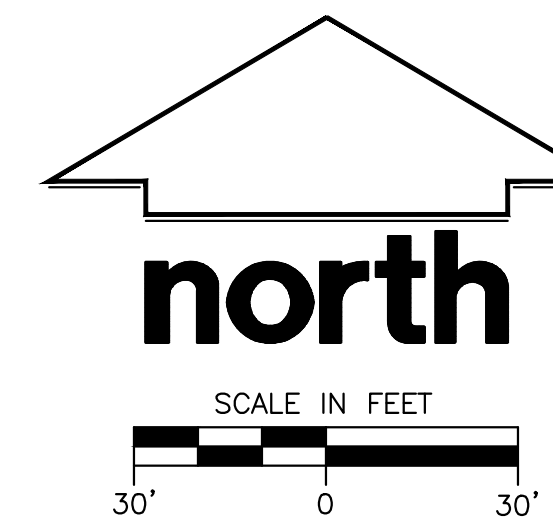
| # | Date: | Description: |
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| 1 | 04.03.2020 | PRELIM SITE & ARCH REVIEW |
| 2 | 04.23.2020 | DESIGN DEVELOPMENT |
| 3 | 05.14.2020 | FINAL SITE AND ARCH REVIEW |
| 4 | 05.27.2020 | FINAL SITE AND ARCH REVIEW - REV 1 |
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Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C0.0

JSD PROJECT NO: 19-9389



CREATE THE VISION TELL THE STORY

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W238 N1610 BUSSE ROAD, SUITE 100
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Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C1.0

JSD PROJECT NO: 19-9389

SITE PLAN DATA

- DEVELOPMENT NAME: ASCENSION WAUKESHA - HOSPITAL
- LOCATION: WAUKESHA, WISCONSIN
- OWNER/DEVELOPER: ASCENSION HEALTHCARE
- ARCHITECT: PHILO WILKE PARTNERSHIP
11275 S. SAM HOUSTON PARKWAY W.
HOUSTON, TX 77031
- SITE SIZE: 183,061 SF (4.20 AC)
- BUILDING SETBACKS:
• 50 FT. FROM SUNSET DR. AND W. ST. PAUL AVE.
- BUILDING HEIGHT: SEE ARCH. PLANS
- PARKING: 209 (12 ADA STALLS)

PAVING NOTES

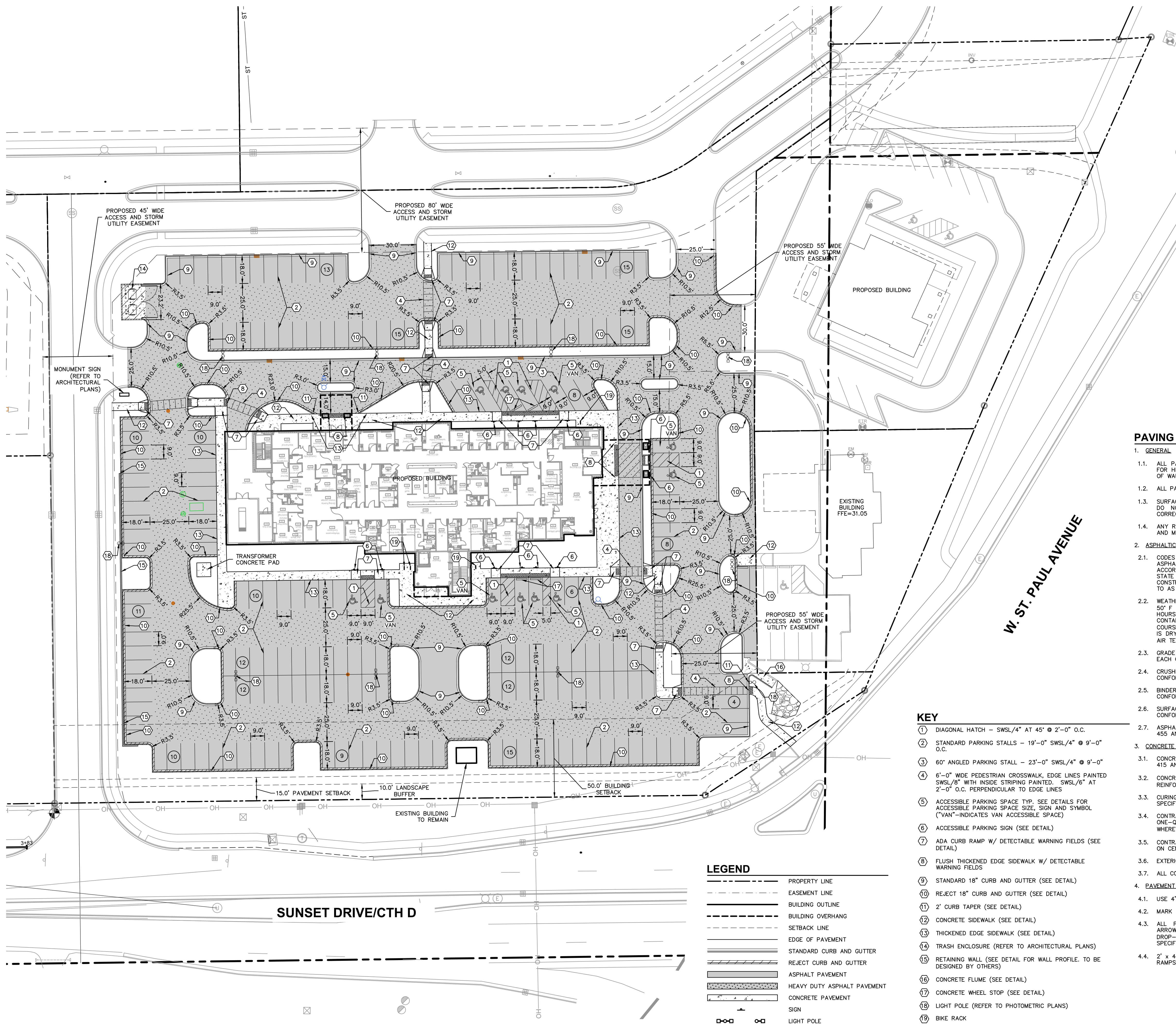
- GENERAL
 - ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, AND APPLICABLE CITY OF WAUKESHA ORDINANCES.
 - ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.
 - SURFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
 - ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER SHALL MATCH EXISTING AND MEET MUNICIPALITY REQUIREMENTS.
- ASPHALTIC CONCRETE PAVING SPECIFICATIONS
 - CODES AND STANDARDS - THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACE COURSE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS STATE HIGHWAY SPECIFICATIONS.
 - WEATHER LIMITATIONS - APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° F (4° C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C).
 - GRADE CONTROL - ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
 - CRUSHED AGGREGATE BASE COURSE - THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.
 - BINDER COURSE AGGREGATE - THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460 AND 315, STATE HIGHWAY SPECIFICATIONS.
 - SURFACE COURSE AGGREGATE - THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460 AND 465, STATE HIGHWAY SPECIFICATIONS.
 - ASPHALTIC MATERIALS - THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTION 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
- CONCRETE PAVING SPECIFICATIONS
 - CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
 - CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
 - CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
 - CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
 - CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
 - EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
 - ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.
- PAVEMENT MARKING SPECIFICATIONS
 - USE 4" WIDE, HIGH VISIBILITY YELLOW LATEX PAINT FOR STALL LINES.
 - MARK AND STRIPE ADA PARKING SPACES APPROPRIATELY.
 - ALL PAVEMENT MARKINGS INCLUDING: STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH LATEX PAINT PER SPECIFICATIONS.
 - 2' x 4' TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AT ALL ADA RAMPS.

KEY

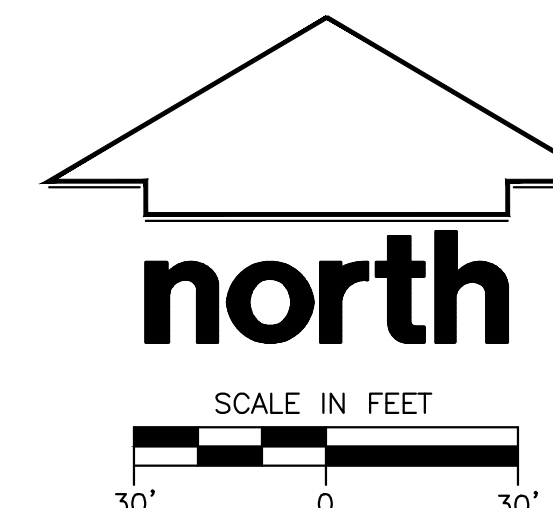
- DIAGONAL HATCH - SWSL/4" @ 45° @ 2'-0" O.C.
- STANDARD PARKING STALLS - 19'-0" SWSL/4" @ 9'-0" O.C.
- 60° ANGLED PARKING STALL - 23'-0" SWSL/4" @ 9'-0" O.C.
- 6'-0" WIDE PEDESTRIAN CROSSWALK, EDGE LINES PAINTED SWSL/8" WITH INSIDE STRIPING PAINTED. SWSL/6" AT 2'-0" O.C. PERPENDICULAR TO EDGE LINES
- ACCESSIBLE PARKING SPACE TYP. SEE DETAILS FOR ACCESSIBLE PARKING SPACE SIZE, SIGN AND SYMBOL (*VAN-INDICATES VAN ACCESSIBLE SPACE)
- ACCESSIBLE PARKING SIGN (SEE DETAIL)
- ADA CURB RAMP W/ DETECTABLE WARNING FIELDS (SEE DETAIL)
- FLUSH THICKENED EDGE SIDEWALK W/ DETECTABLE WARNING FIELDS
- STANDARD 18" CURB AND GUTTER (SEE DETAIL)
- REJECT 18" CURB AND GUTTER (SEE DETAIL)
- 2' CURB TAPER (SEE DETAIL)
- CONCRETE SIDEWALK (SEE DETAIL)
- THICKENED EDGE SIDEWALK (SEE DETAIL)
- TRASH ENCLOSURE (REFER TO ARCHITECTURAL PLANS)
- RETAINING WALL (SEE DETAIL FOR WALL PROFILE. TO BE DESIGNED BY OTHERS)
- CONCRETE FLUME (SEE DETAIL)
- CONCRETE WHEEL STOP (SEE DETAIL)
- LIGHT POLE (REFER TO PHOTOMETRIC PLANS)
- BIKE RACK

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- SETBACK LINE
- EDGE OF PAVEMENT
- STANDARD CURB AND GUTTER
- REJECT CURB AND GUTTER
- ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- SIGN
- LIGHT POLE



File: R:\2019\19-9389 Ascension Waukesha\DWG\19-9389 C1.0 - Site Plan.dwg Layout: C1.0 User: jimon Plotmed: May 26, 2020, 2:55pm Xref's:



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HOUSTON, TX 77031**

PROJECT LOCATION:
**WAUKESHA, WI
WAUKESHA COUNTY**

LEGEND

- PROPERTY LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- PROPOSED STORM SEWER
- SAN
- W
- PROPOSED SANITARY SEWER
- PROPOSED WATER SERVICE
- 34
- 35
- 34
- 35
- 34
- 35
- 31.10
- SPOT GRADE

| PROPOSED STRUCTURES TABLE | | | | | |
|---------------------------|--------------|---|------------|-----------------|---------------|
| LABEL | RIM EL. (FT) | INVERT EL. (FT) | DEPTH (FT) | STRUCTURE DESC. | FRAME & GRATE |
| ES-10 | | E INV: 24.00 (24') | | 24 IN HDPE FES | |
| INL-11 | 27.74 | S INV: 25.41 (12") NE INV: 24.91 (18") W INV: 24.41 (24') | 3.3 | 48 IN MH (FLAT) | R-2501 TYPE G |
| INL-12 | 32.78 | E INV: 25.79 (12") N INV: 25.79 (12") SW INV: 25.29 (18") | 7.5 | 2 x 3 INLET | R-3067 TYPE R |
| INL-12A | 30.26 | S INV: 26.14 (12') | 4.1 | 2 x 3 INLET | R-3067 TYPE R |
| INL-13 | 32.78 | E INV: 27.07 (12") S INV: 27.40 (8") W INV: 27.07 (12') | 5.7 | 2 x 3 INLET | R-3067 TYPE R |
| INL-14 | 32.55 | NE INV: 27.47 (12") W INV: 27.47 (12') | 5.1 | 2 x 3 INLET | R-3067 TYPE R |
| INL-15 | 30.48 | SW INV: 27.88 (12') | 2.6 | 48 IN MH (FLAT) | R-3067 TYPE R |
| INL-20 | 34.48 | E INV: 26.70 (12") N INV: 26.70 (12') | 7.8 | 48 IN MH (FLAT) | R-2501 TYPE G |
| INL-21 | 31.94 | W INV: 27.33 (12') | 4.6 | 48 IN MH (FLAT) | R-2501 TYPE G |
| RD-13A | | | | | |

| PROPOSED PIPES TABLE | | | | | | | |
|----------------------|--------|---------|--------|-----------------|--------------------|-------|-----------------|
| LABEL | FROM | TO | LENGTH | INVERT EL. (FT) | DISCHARGE EL. (FT) | SLOPE | SIZE & MATERIAL |
| P-10 | ES-10 | INL-11 | 10.3' | 24.00 | 24.41 | 0.40% | 24 IN HDPE (HP) |
| P-11 | INL-11 | INL-12 | 7.3' | 24.91 | 25.29 | 0.52% | 18 IN HDPE (HP) |
| P-12 | INL-12 | INL-13 | 85' | 25.79 | 27.07 | 1.50% | 12 IN HDPE (HP) |
| P-12A | INL-12 | INL-12A | 68' | 25.79 | 26.14 | 0.52% | 12 IN HDPE (HP) |
| P-13 | INL-13 | INL-14 | 76' | 27.07 | 27.47 | 0.52% | 12 IN HDPE (HP) |
| P-13A | INL-13 | | 41' | 27.40 | 29.04 | 4.00% | 8 IN HDPE |
| P-14 | INL-14 | INL-15 | 80' | 27.47 | 27.88 | 0.52% | 12 IN HDPE (HP) |
| P-20 | INL-11 | INL-20 | 124' | 25.41 | 26.70 | 1.04% | 12 IN HDPE (HP) |
| P-21 | INL-20 | INL-21 | 121' | 26.70 | 27.33 | 0.52% | 12 IN HDPE (HP) |

GRADING AND SEEDING NOTES

- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
- PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
- ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
- CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
- ALL DISTURBED AREAS SHALL BE SODED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOO/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
- CONTRACTOR SHALL WATER ALL NEWLY SODED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
- CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SOODING AND/OR SEEDING AND MULCHING.
- ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
- ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF WAUKESHA ORDINANCE.

PLAN MODIFICATIONS:

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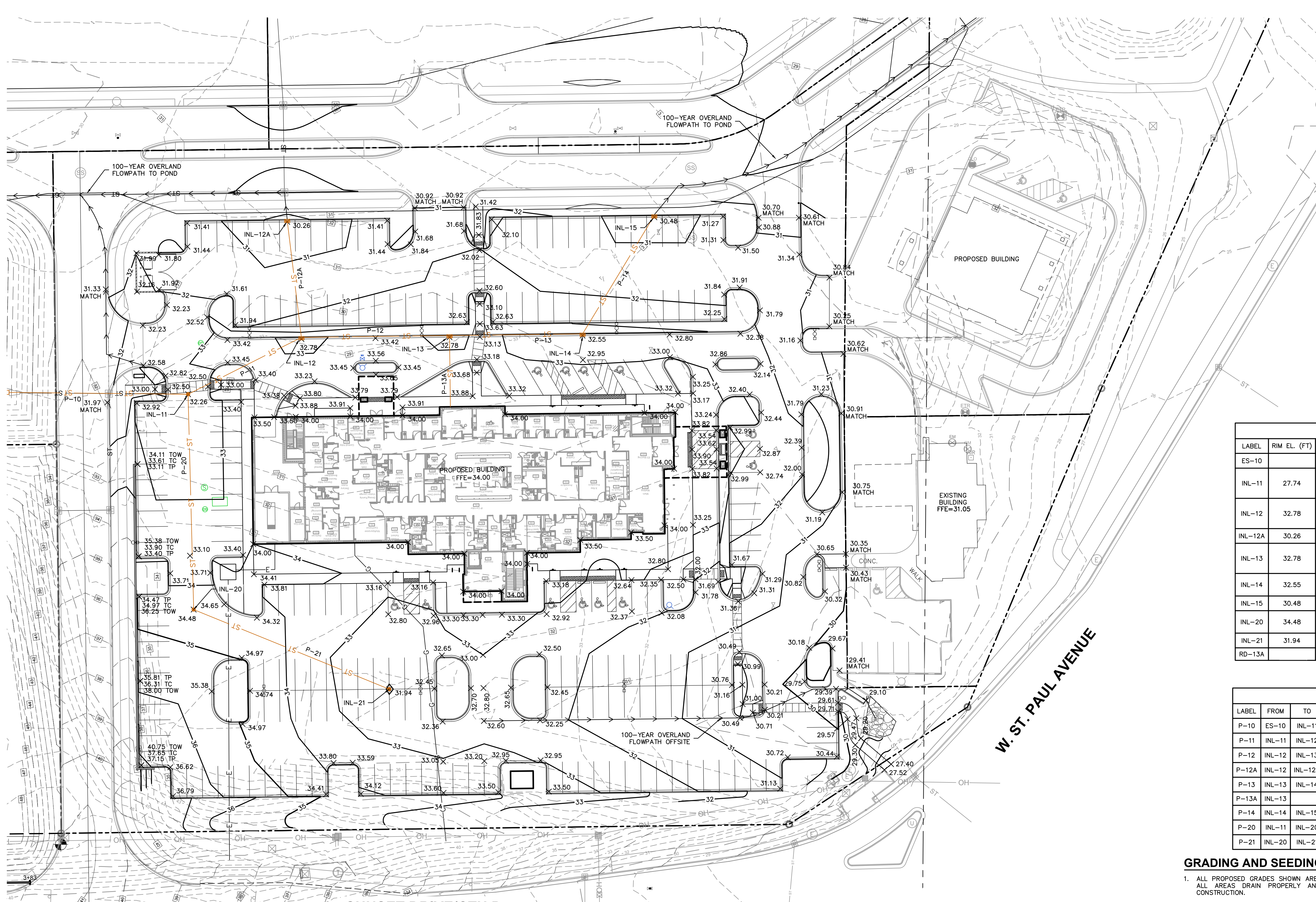
Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
GRADING AND DRAINAGE PLAN

SHEET NUMBER:

C2.0

JSD PROJECT NO: 19-9389



SUNSET DRIVE/CTH D

RATIONAL METHOD STORM SEWER CALCULATIONS

Project Name: **ASCENSION - WAUKESHA**
Project Location: WAUKESHA, WI
JSD Project Number: 19-9389
Performed by: JJS
Date: 4/23/2020

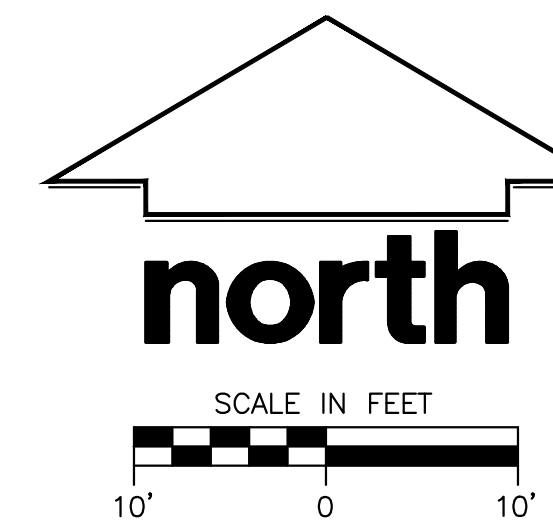
MILWAUKEE REGIONAL OFFICE
W238 N1610 Busse Road, Suite 100
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MADISON REGIONAL OFFICE
161 Horizon Drive, Suite 101
Verona, Wisconsin 53593
Ph: (608) 848-5060 Fax: (608) 848-2255

JSD Professional Services, Inc.
Engineers • Surveyors • Planners

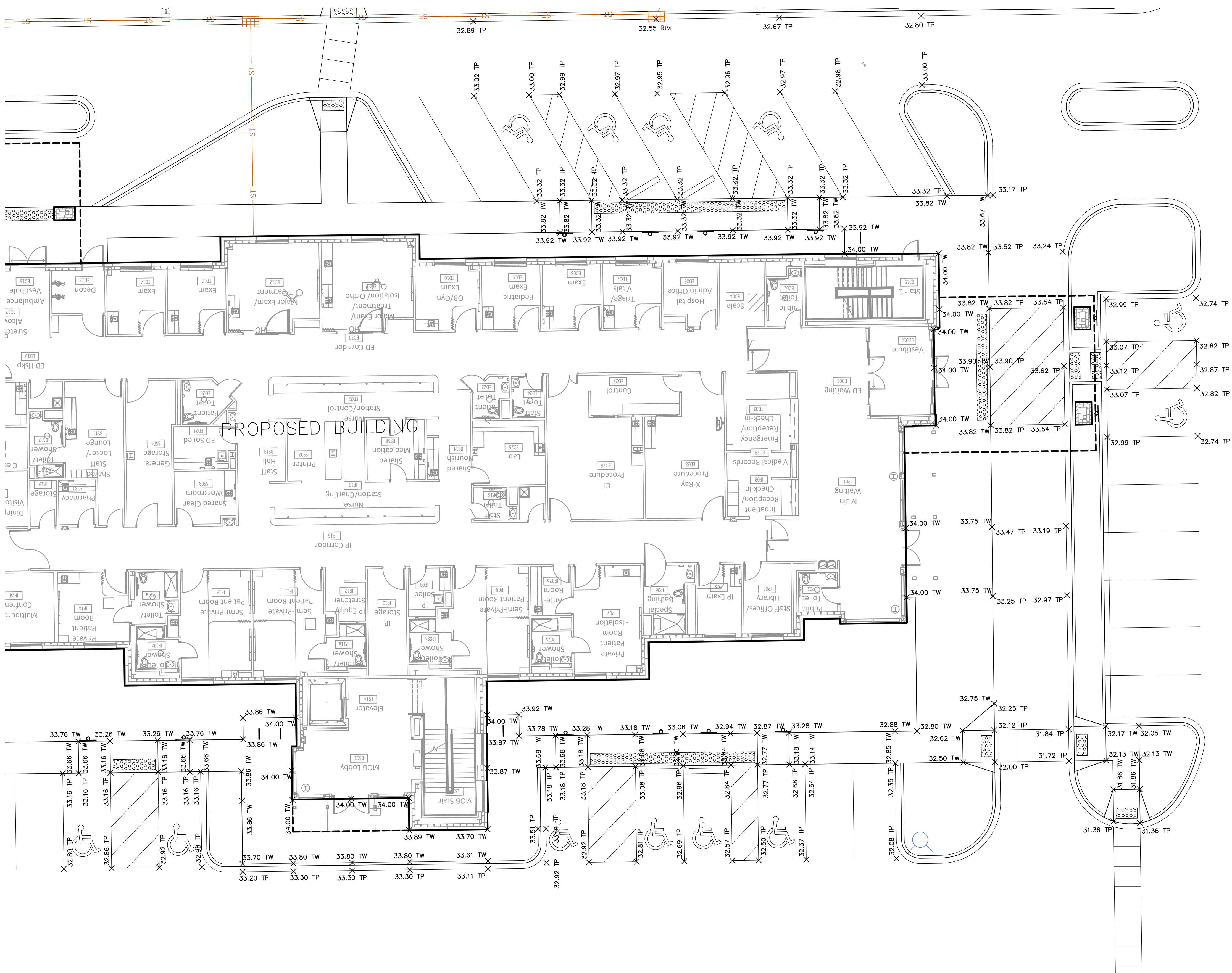
| PIPE LOCATION | | STRUCTURE CONTRIBUTING AREA | | | PIPE FLOW | | | PIPE DATA | | | PIPE CAPACITY INFORMATION | | | | | ELEVATIONS | | | COVER TO CROWN (FT) | | | | | | | |
|---------------|-------------|-----------------------------|---------------------|---------------------|-----------------------|----------------------------------|---------------------------------------|------------------------|-----------------------|---------------------|---------------------------|--------------|------------------|-----------|-------------|---------------------|--------------------|--------------------------|---------------------|------------------------|--------------------------|--------------|-----------|-------------|-------|------|
| UP STRUCT | DOWN STRUCT | C = 0.95 (SQ FT) | C = 0.95 (SQ FT) | C = 0.20 (SQ FT) | INDIV AREA (ACRES) | INDIV COMP C VALUE (UNITLESS) | STORM EVENT (2.5, 10, 25, 50, 100) | INTENSITY I (IN/HR) | INDIV RUNOFF (CFS) | TOTAL FLOW (CFS) | LENGTH (FT) | DIA. (IN) | SLOPE (FT/FT) | REQD DROP | ACTUAL DROP | PARTS FULL (FPS) | FULL FLOW (CFS) | TIME TO STRUCT. (MIN) | | TIME IN SEWER (MIN) | DROP THRU STRUCT (FT) | RIM/(F/L) UP | INVERT UP | INVERT DOWN | | |
| INL-21 | INL-20 | 0 | 18,465 | 8,145 | 0.61 | 0.72 | 10 | 6.01 | 2.64 | 2.64 | 121.3 | 12 | 0.0052 | 0.012 | 0.57 | 0.63 | 0.84 | 4.03 | 2.78 | 6.00 | 6.50 | 0.00 | 31.94 | 27.33 | 26.70 | 3.51 |
| INL-20 | INL-11 | 0 | 3,880 | 325 | 0.10 | 0.89 | 10 | 5.88 | 0.51 | 3.15 | 123.8 | 12 | 0.0104 | 0.012 | 0.83 | 1.29 | 0.72 | 5.57 | 3.93 | 6.50 | 6.87 | 1.00 | 34.48 | 26.70 | 25.41 | 6.68 |
| RD-13A | INL-13 | 19,120 | 0 | 0 | 0.44 | 0.95 | 10 | 6.01 | 2.51 | 2.51 | 41.0 | 8 | 0.0400 | 0.012 | 1.50 | 1.64 | 0.87 | 8.55 | 2.62 | 6.00 | 6.08 | 0.33 | 34.00 | 29.04 | 27.40 | 4.23 |
| INL-12A | INL-12 | 0 | 9,500 | 1,700 | 0.26 | 0.84 | 10 | 6.01 | 1.29 | 1.29 | 67.9 | 12 | 0.0052 | 0.012 | 0.08 | 0.35 | 0.47 | 3.48 | 2.78 | 6.00 | 6.33 | 0.50 | 30.26 | 26.14 | 25.79 | 3.02 |
| INL-15 | INL-14 | 0 | 8,855 | 2,155 | 0.25 | 0.80 | 10 | 6.01 | 1.22 | 1.22 | 79.5 | 12 | 0.0052 | 0.012 | 0.08 | 0.41 | 0.47 | 3.48 | 2.78 | 6.00 | 6.38 | 0.00 | 30.48 | 27.88 | 27.46 | 1.50 |
| INL-14 | INL-13 | 0 | 4,600 | 970 | 0.13 | 0.82 | 10 | 5.91 | 0.62 | 1.84 | 76.5 | 12 | 0.0052 | 0.012 | 0.17 | 0.40 | 0.63 | 3.80 | 2.78 | 6.00 | 6.72 | 0.00 | 32.55 | 27.46 | 27.07 | 3.99 |
| INL-13 | INL-12 | 0 | 2,015 | 860 | 0.07 | 0.73 | 10 | 5.83 | 0.28 | 4.62 | 85.1 | 12 | 0.0150 | 0.012 | 1.22 | 1.28 | 0.88 | 6.86 | 4.73 | 6.72 | 6.92 | 0.50 | 32.78 | 27.07 | 25.79 | 4.61 |
| INL-12 | INL-11 | 0 | 3,175 | 525 | 0.08 | 0.84 | 10 | 5.78 | 0.41 | 6.33 | 72.9 | 18 | 0.0052 | 0.012 | 0.23 | 0.38 | 0.71 | 5.14 | 8.20 | 6.92 | 7.16 | 0.50 | 32.78 | 25.29 | 24.91 | 5.84 |
| INL-11 | ES-10 | 0 | 8,125 | 1,175 | 0.21 | 0.86 | 10 | 5.73 | 1.05 | 10.53 | 102.9 | 24 | 0.0040 | 0.012 | 0.19 | 0.41 | 0.64 | 5.32 | 15.49 | 7.16 | 7.48 | -- | 32.26 | 24.41 | 24.00 | 5.65 |





LEGEND

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| --- | PROPERTY LINE |
| --- | BUILDING OUTLINE |
| --- | BUILDING OVERHANG |
| --- | PROPOSED MINOR CONTOUR |
| --- | PROPOSED MAJOR CONTOUR |
| --- | SPOT GRADE |



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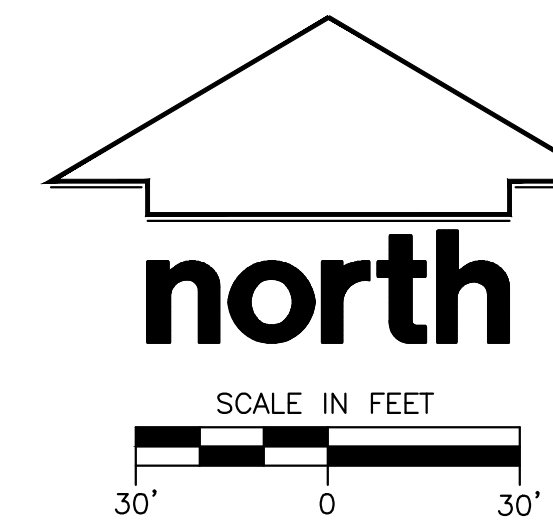
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Design/Drawn: JJS
 Approved: TJB
 Date: 04.03.2020

SHEET TITLE:
**ADA GRADING
 DETAILS**

SHEET NUMBER:
C2.1





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PROJECT:
**ASCENSION
WAUKESHA - HOSPITAL**

PROJECT LOCATION:
WAUKESHA, WI
WAUKESHA COUNTY



PLAN MODIFICATIONS:

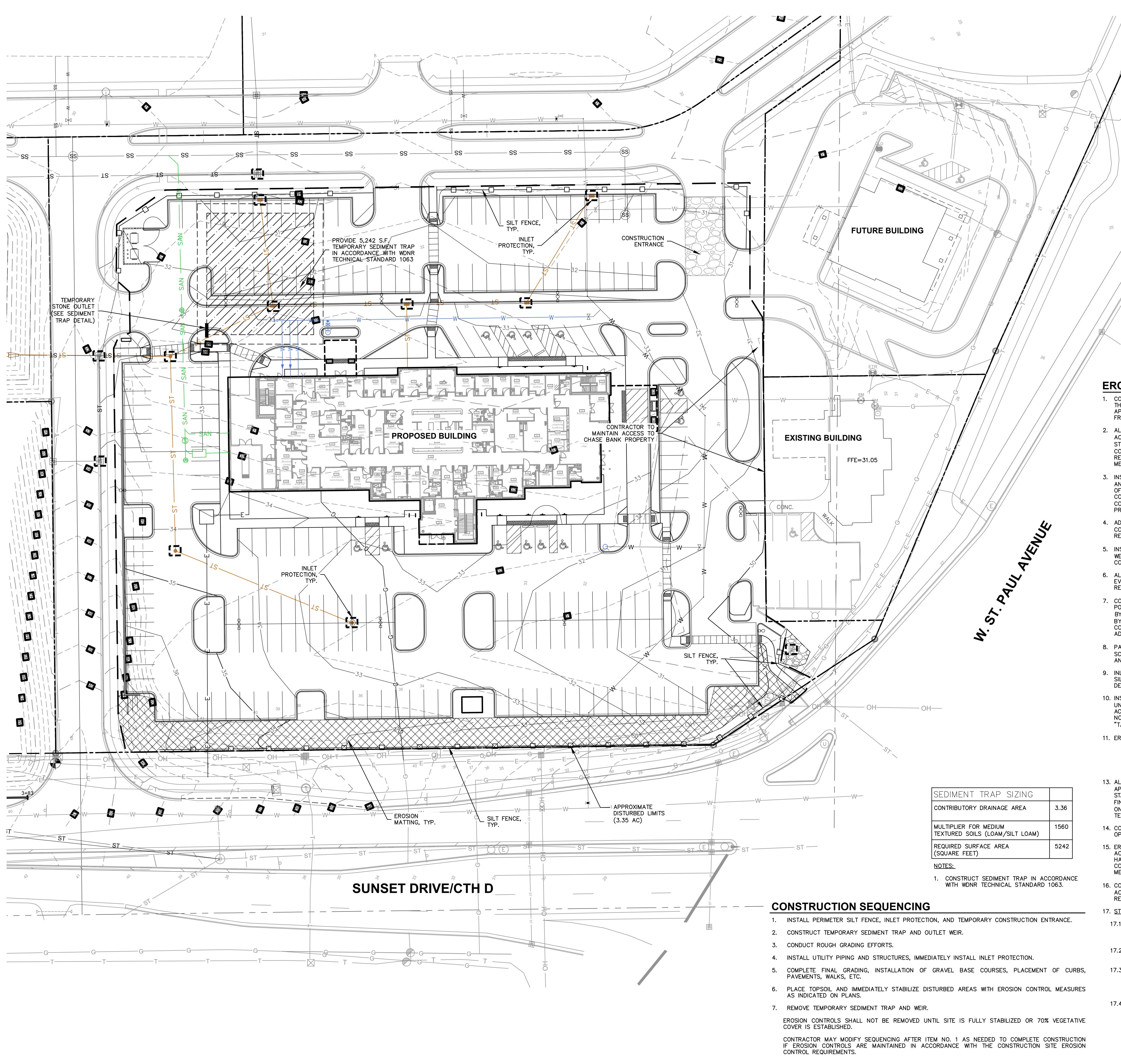
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| 2 | 04.23.2020 | DESIGN DEVELOPMENT |
| 3 | 05.14.2020 | FINAL SITE AND ARCH REVIEW |
| 4 | 05.27.2020 | FINAL SITE AND ARCH REVIEW - REV 1 |
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Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
**EROSION
CONTROL PLAN**

SHEET NUMBER:
C3.0

JSD PROJECT NO: 19-9389



LEGEND

- PROPERTY LINE
- BUILDING OUTLINE
- BUILDING OVERHANG
- SAN SANITARY SEWER
- W WATERMAIN
- ST STORM SEWER
- 34 EXISTING MINOR CONTOUR
- 35 EXISTING MAJOR CONTOUR
- 34 PROPOSED MINOR CONTOUR
- 35 PROPOSED MAJOR CONTOUR
- SILT FENCE
- RIP-RAP
- CONSTRUCTION ENTRANCE
- EROSION MATTING
- INLET PROTECTION

EROSION CONTROL NOTES

- CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE CITY OF WAUKESHA OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND CITY OF WAUKESHA ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.
- INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLANS. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE CITY OF WAUKESHA PRIOR TO DEVIATION OF THE APPROVED PLAN.
- ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
- INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
- ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRIOR APPROVED BY THE MUNICIPALITY. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.
- PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE CITY OF WAUKESHA.
- INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
- INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A TACKIFIER.
- EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
 - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
- ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. EROSION MATTING AND/OR NETTING USED ON-SITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
- CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
- EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT STABILIZATION MEASURES.
- CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR PROPERTY SALE IN ACCORDANCE WITH WDNR REQUIREMENTS.

SEDIMENT TRAP SIZING

| | |
|---|------|
| CONTRIBUTORY DRAINAGE AREA | 3.36 |
| MULTIPLIER FOR MEDIUM TEXTURED SOILS (LOAM/SILT LOAM) | 1560 |
| REQUIRED SURFACE AREA (SQUARE FEET) | 5242 |

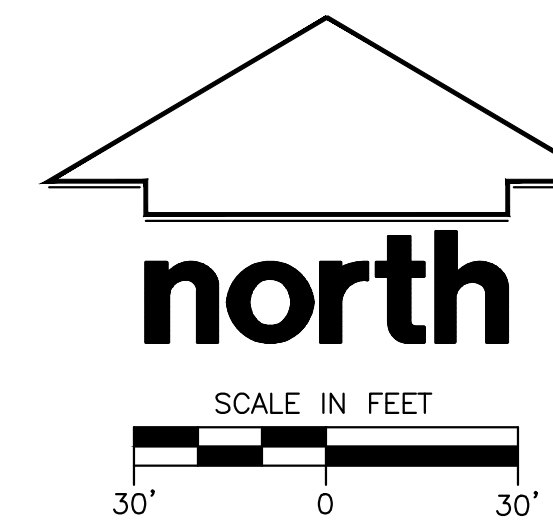
NOTES:
1. CONSTRUCT SEDIMENT TRAP IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.

CONSTRUCTION SEQUENCING

- INSTALL PERIMETER SILT FENCE, INLET PROTECTION, AND TEMPORARY CONSTRUCTION ENTRANCE.
- CONSTRUCT TEMPORARY SEDIMENT TRAP AND OUTLET WEIR.
- CONDUCT ROUGH GRADING EFFORTS.
- INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
- COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
- PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
- REMOVE TEMPORARY SEDIMENT TRAP AND WEIR.

EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED.

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.



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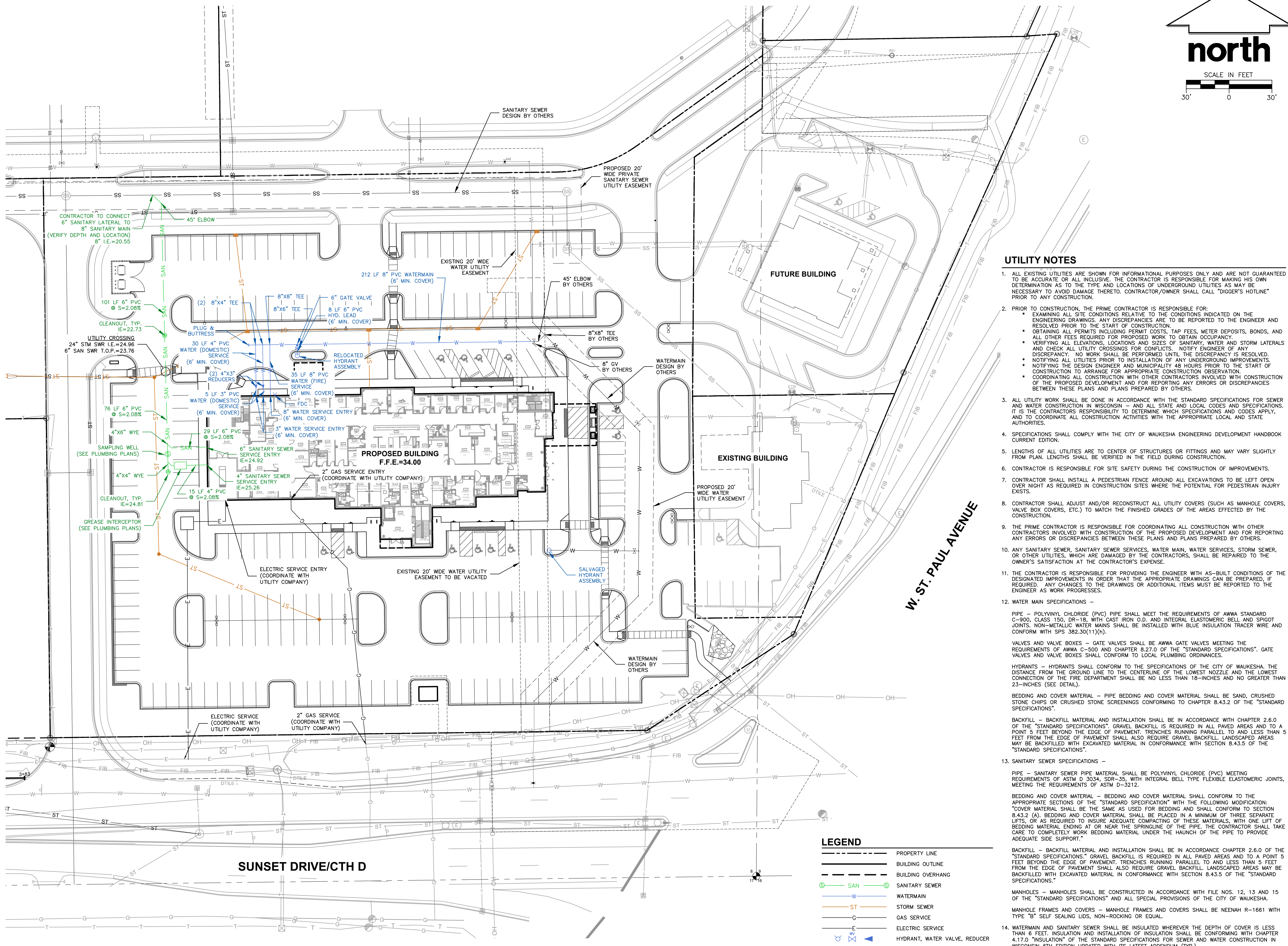
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Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C4.0

JSD PROJECT NO: 19-9389



UTILITY NOTES

- ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
 - EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
 - COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN - AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
- SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WAUKESHA ENGINEERING DEVELOPMENT HANDBOOK CURRENT EDITION.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
- CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
- CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
- THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
- WATER MAIN SPECIFICATIONS -

PIPE - POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 150, DR-15, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

VALVES AND VALVE BOXES - GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

HYDRANTS - HYDRANTS SHALL CONFORM TO THE SPECIFICATIONS OF THE CITY OF WAUKESHA. THE DISTANCE FROM THE GROUND LINE TO THE CENTERLINE OF THE LOWEST NOZZLE AND THE LOWEST CONNECTION OF THE FIRE DEPARTMENT SHALL BE NO LESS THAN 18-INCHES AND NO GREATER THAN 23-INCHES (SEE DETAIL).

BEDDING AND COVER MATERIAL - PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

BACKFILL - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

PIPE - SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.

BEDDING AND COVER MATERIAL - BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

BACKFILL - BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS." GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."

MANHOLES - MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NOS. 12, 13 AND 15 OF THE "STANDARD SPECIFICATIONS" AND ALL SPECIAL PROVISIONS OF THE CITY OF WAUKESHA. MANHOLE FRAMES AND COVERS - MANHOLE FRAMES AND COVERS SHALL BE NENAH R-1661 WITH TYPE "B" SELF SEALING LIDS, NON-ROCKING OR EQUAL.

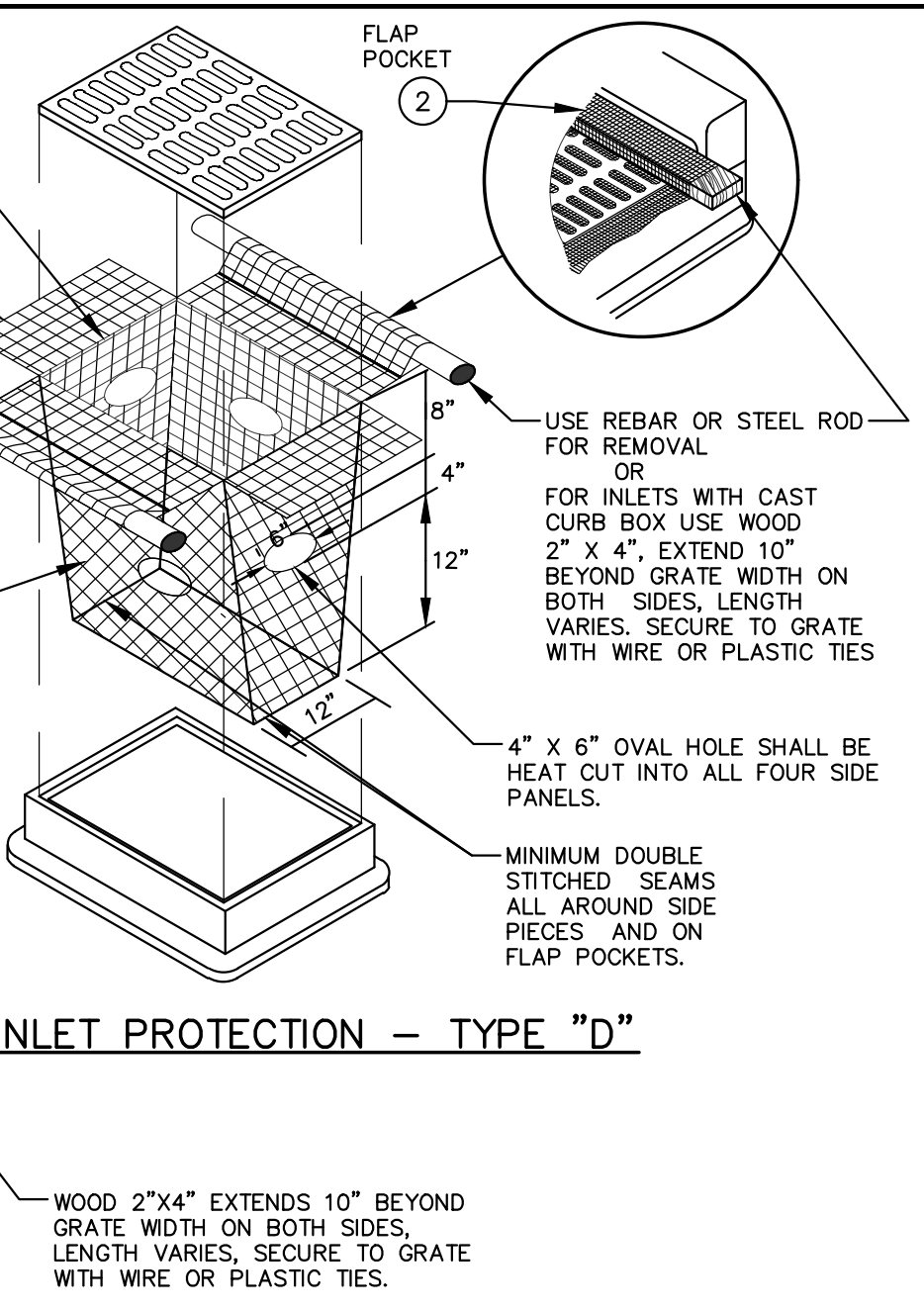
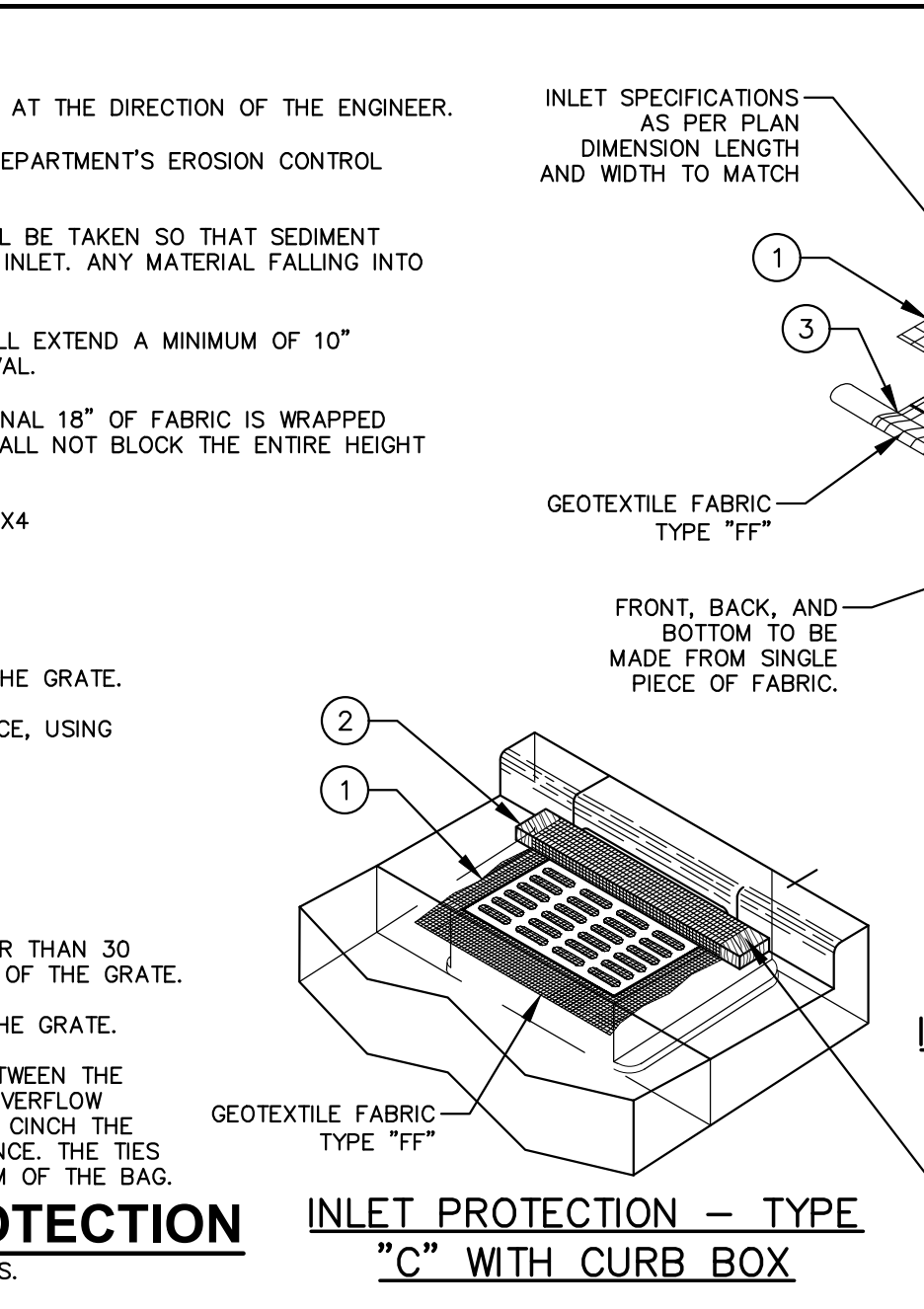
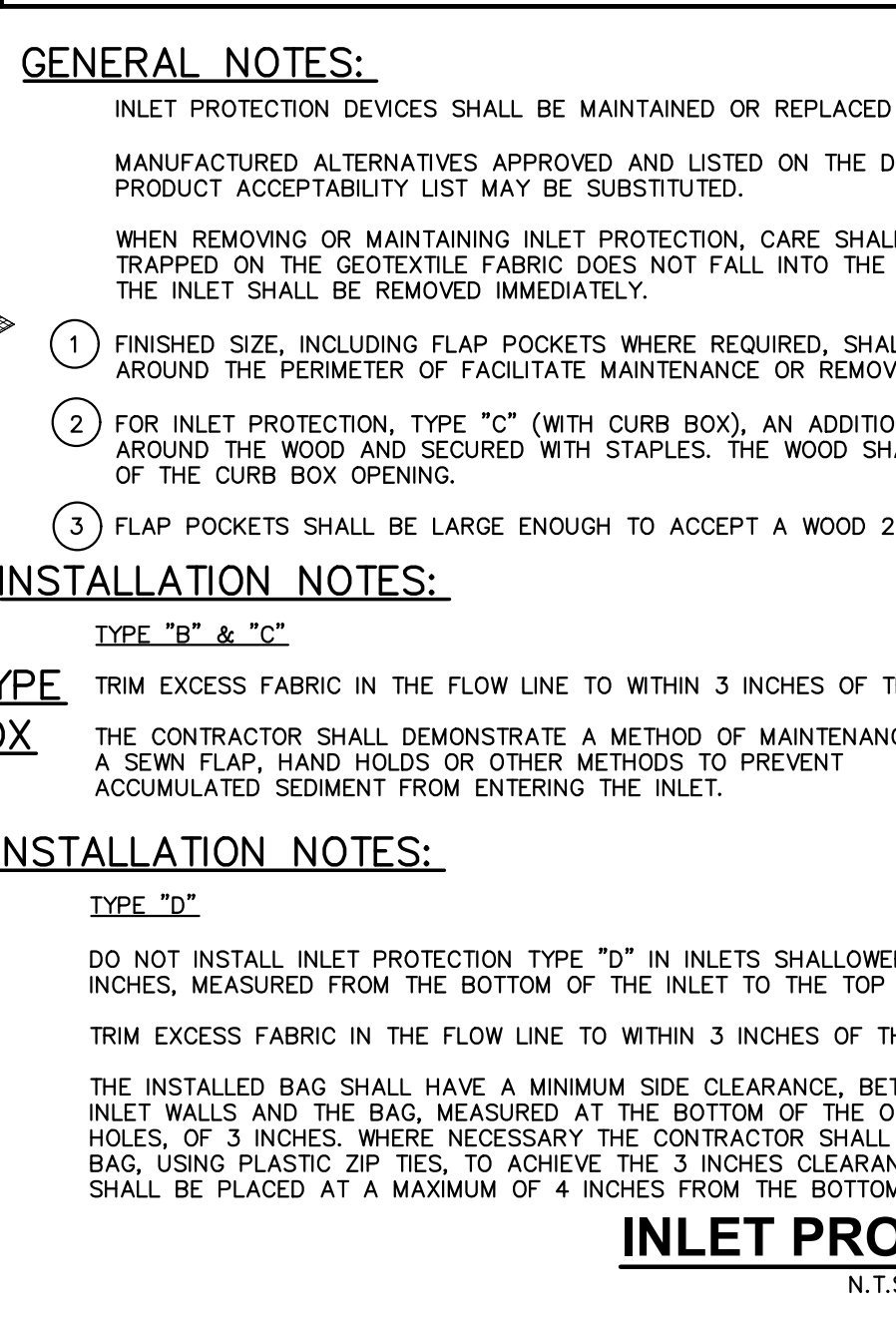
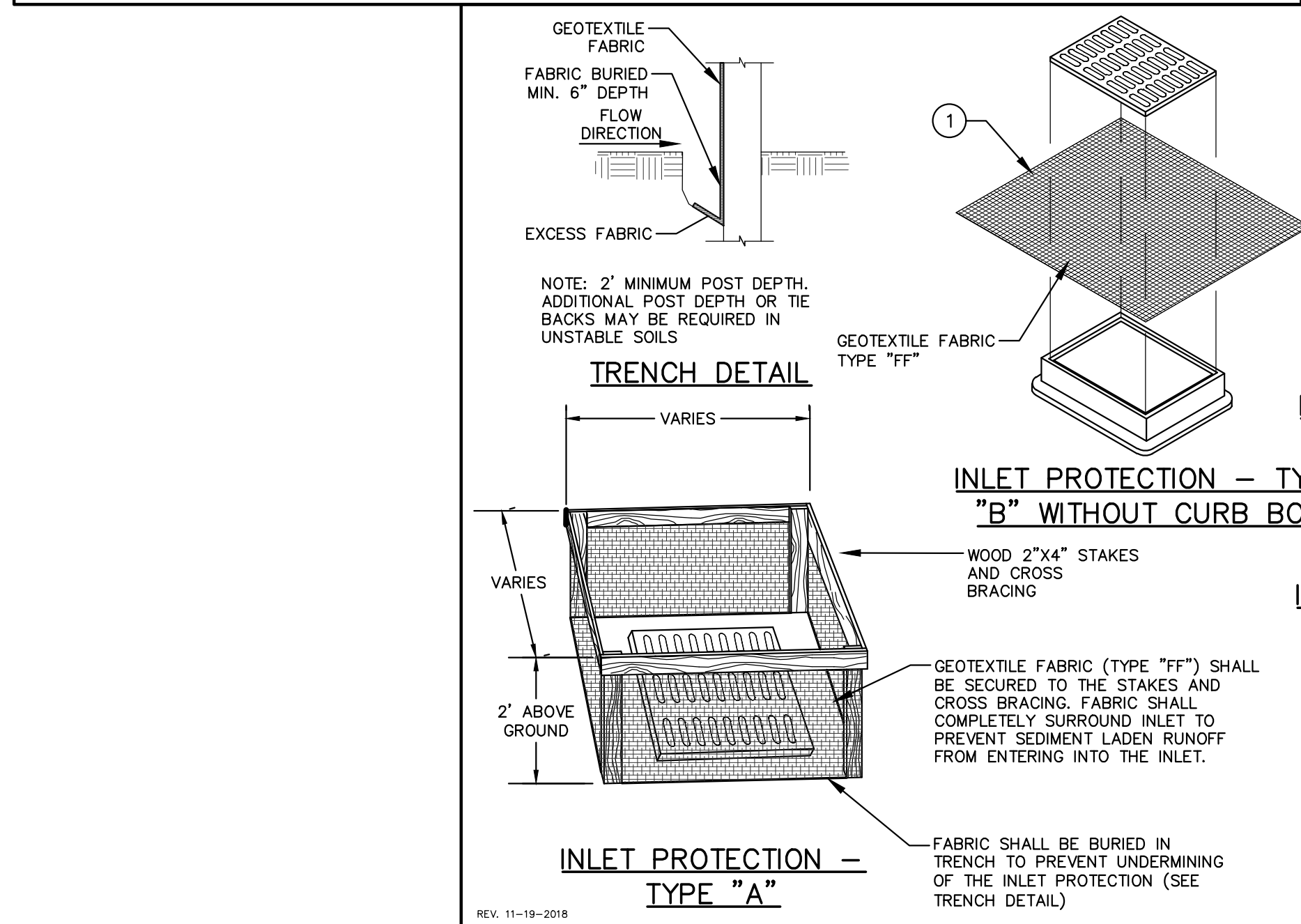
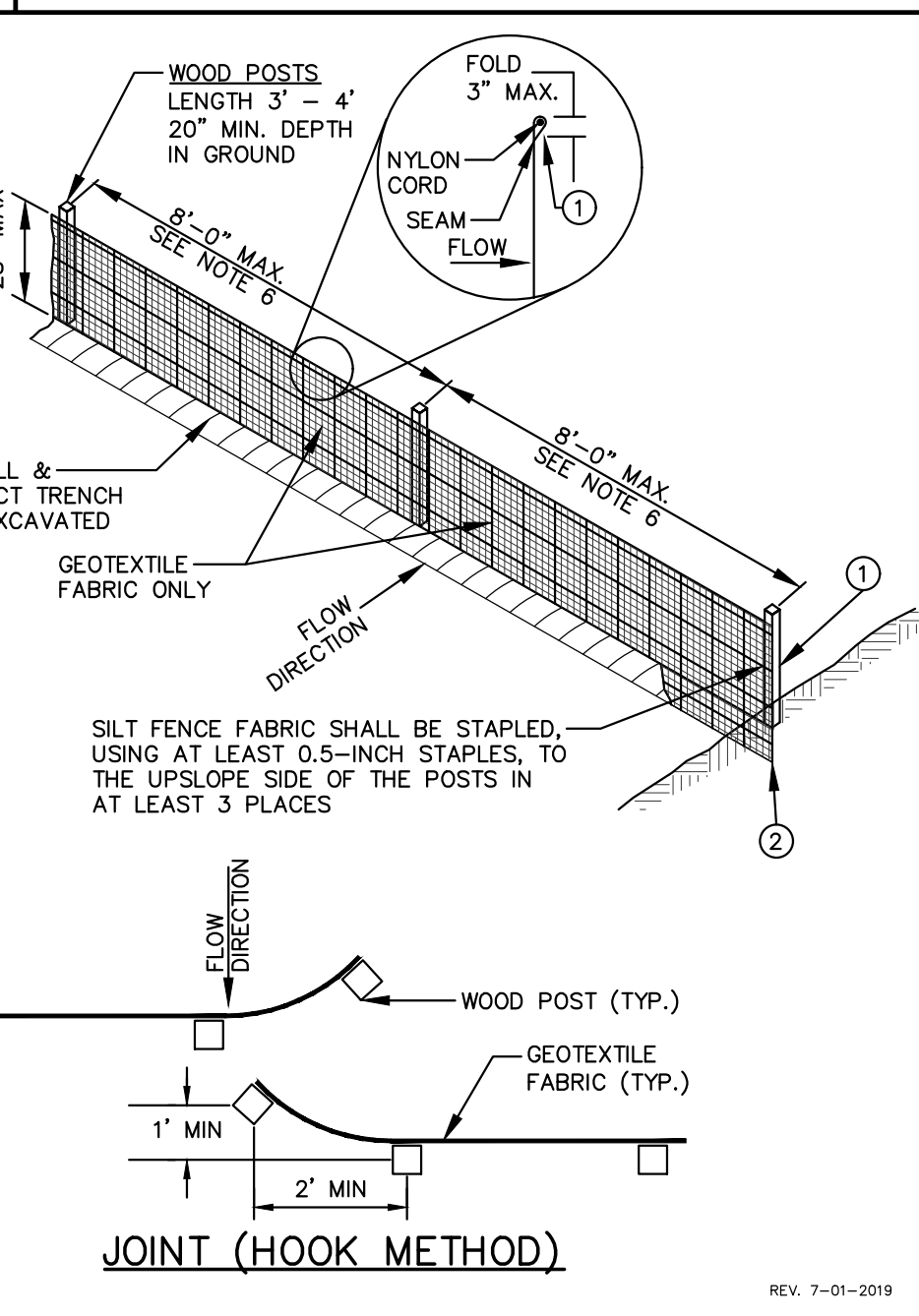
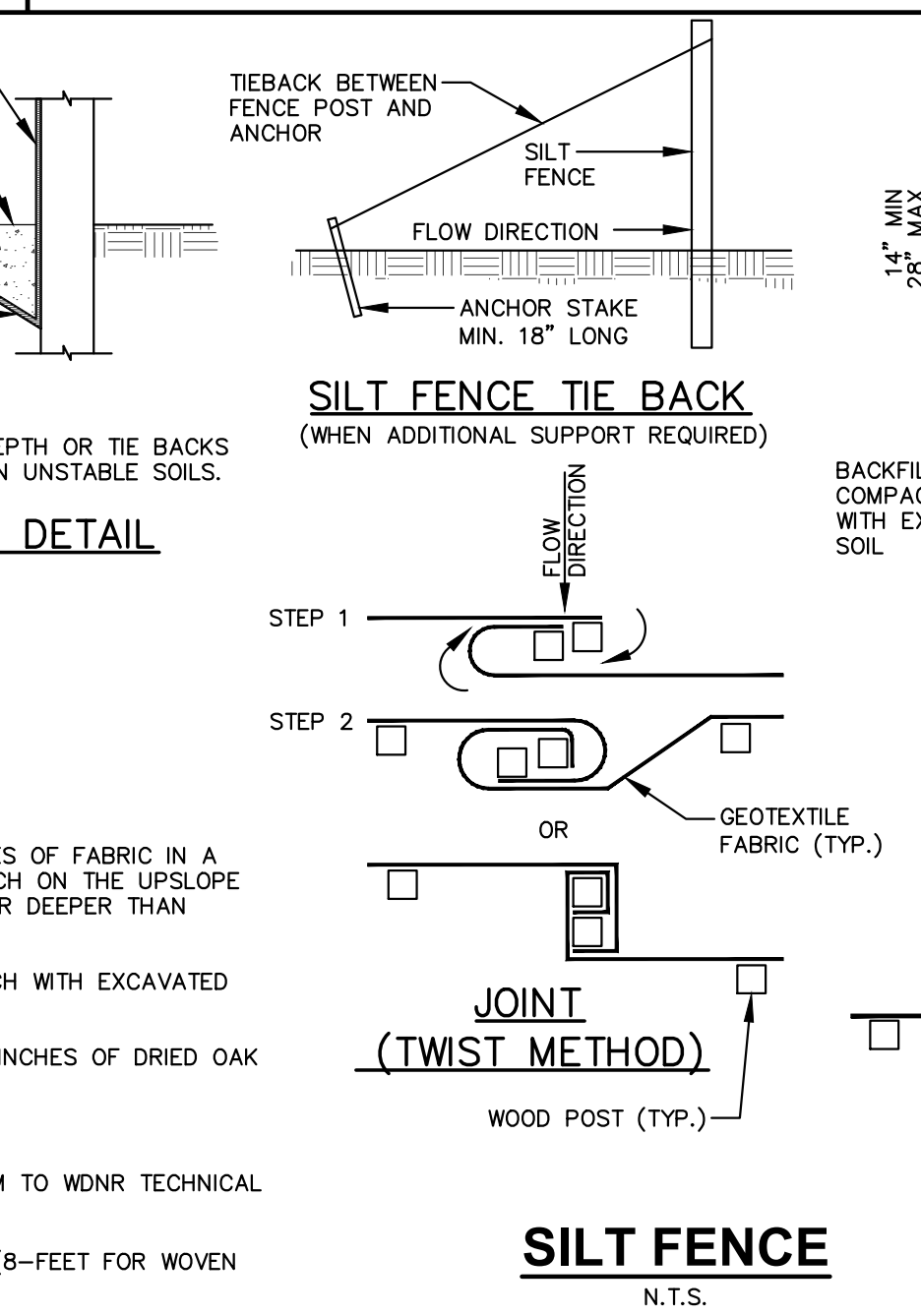
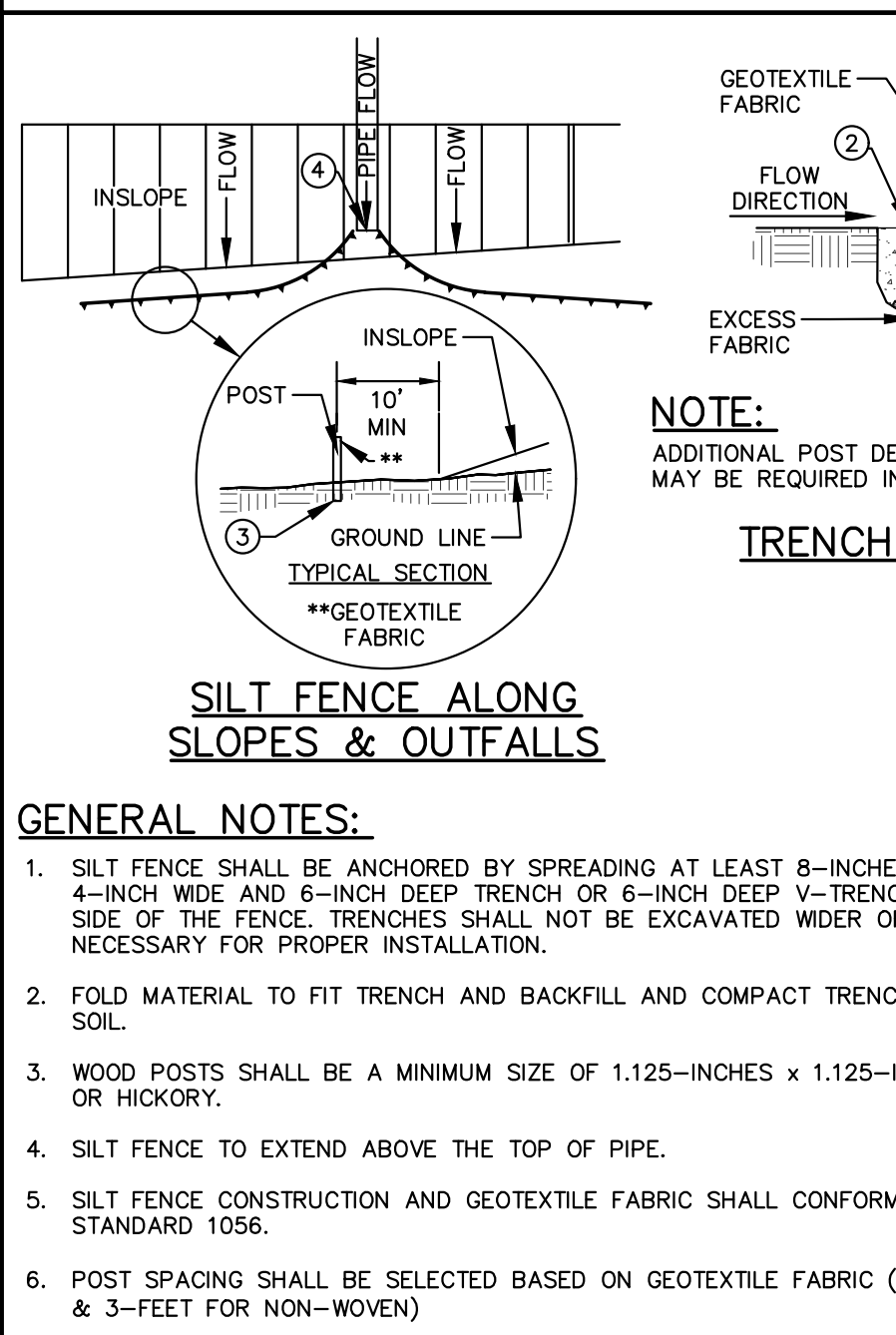
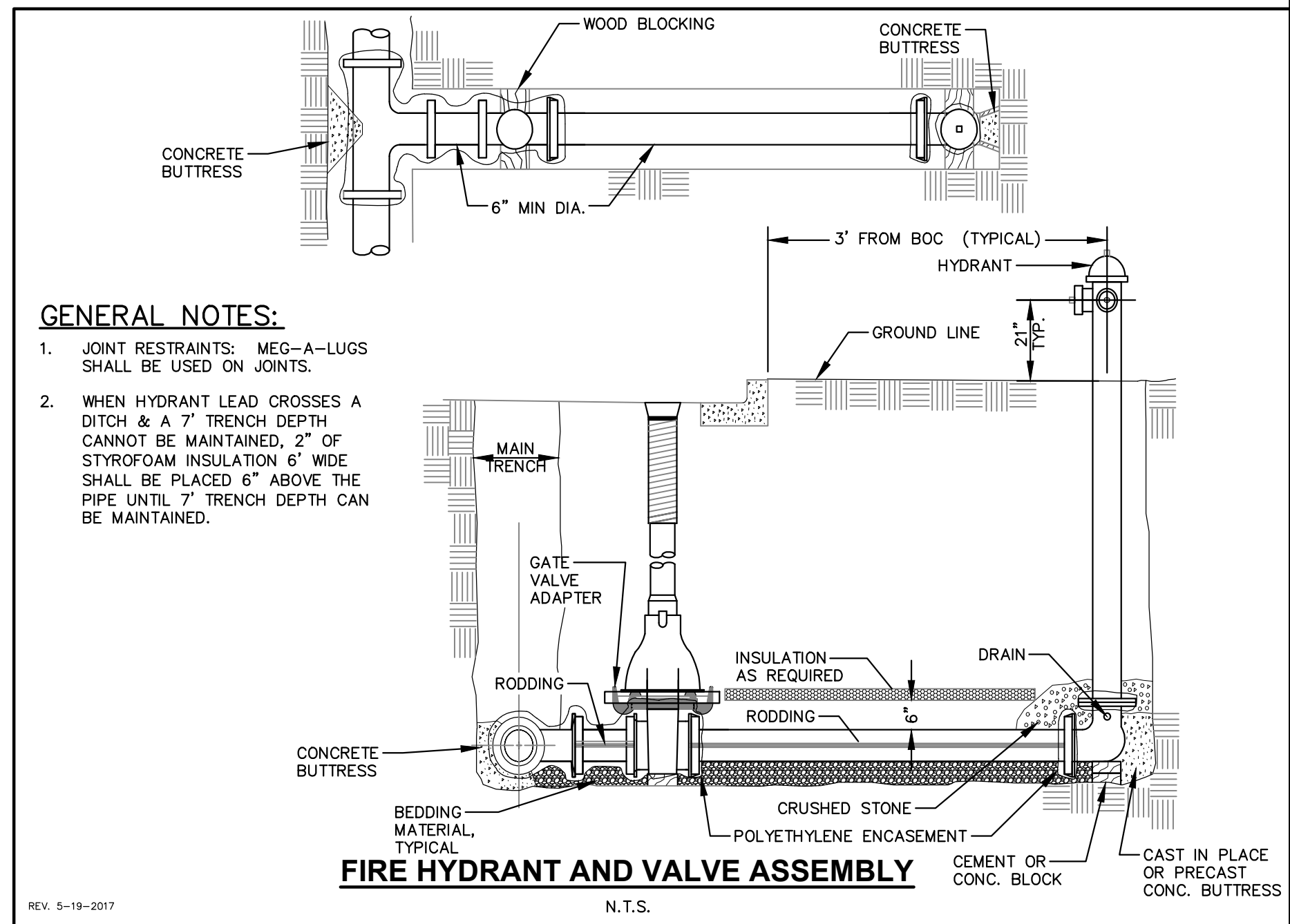
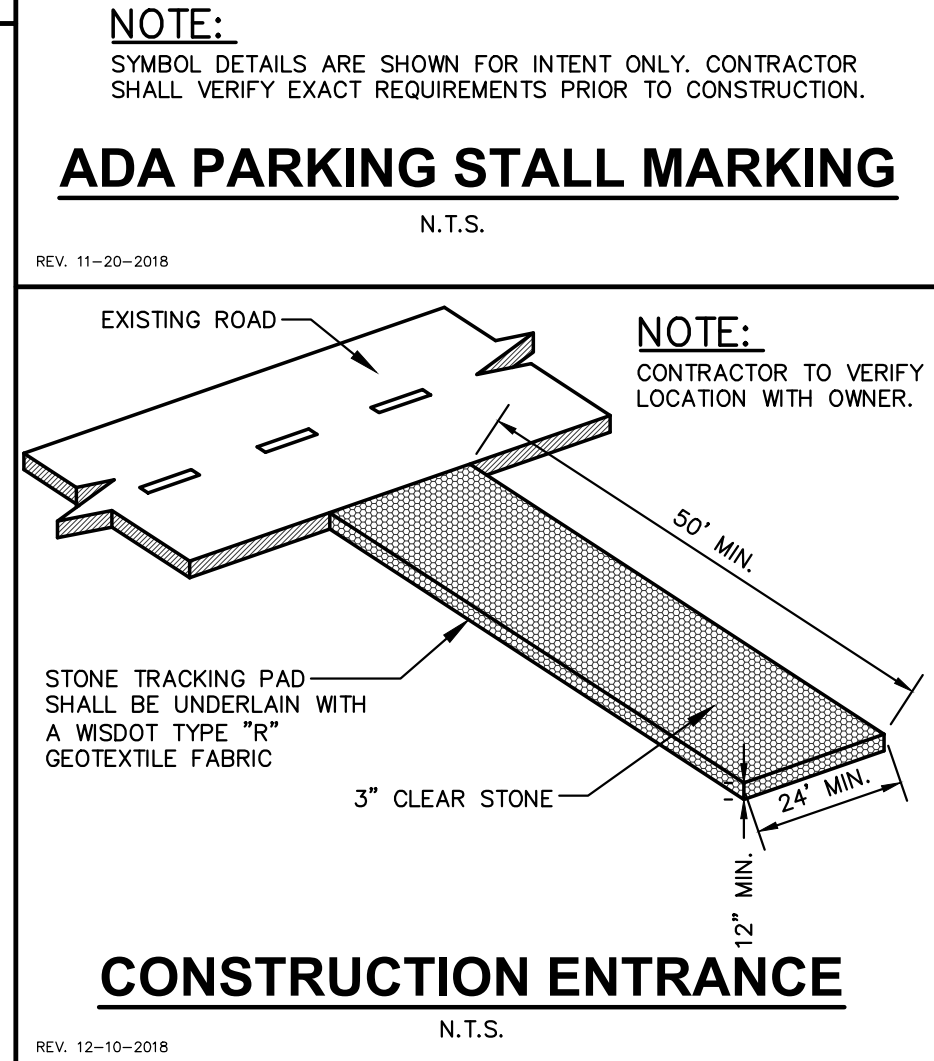
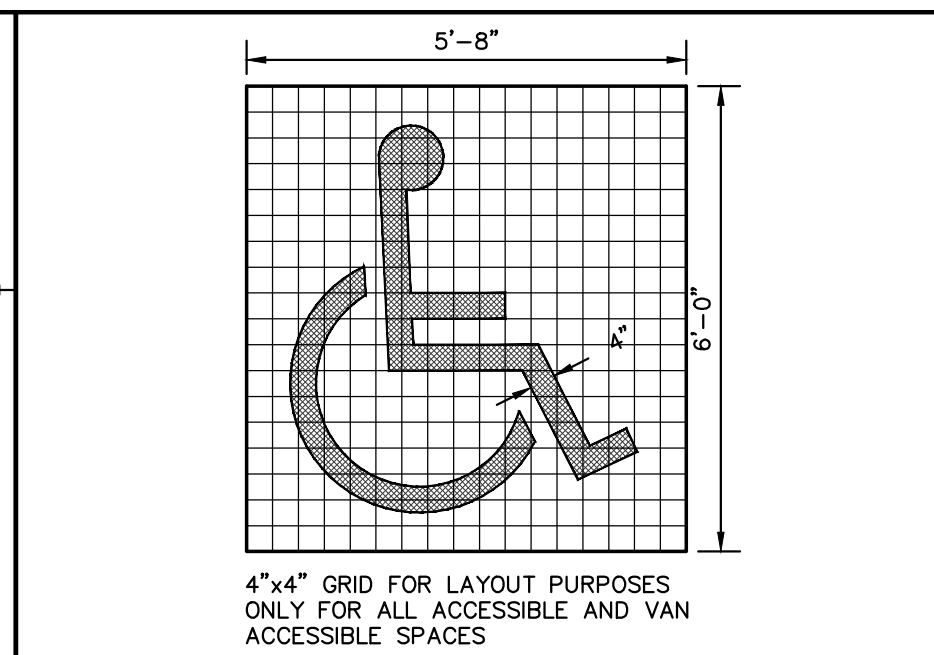
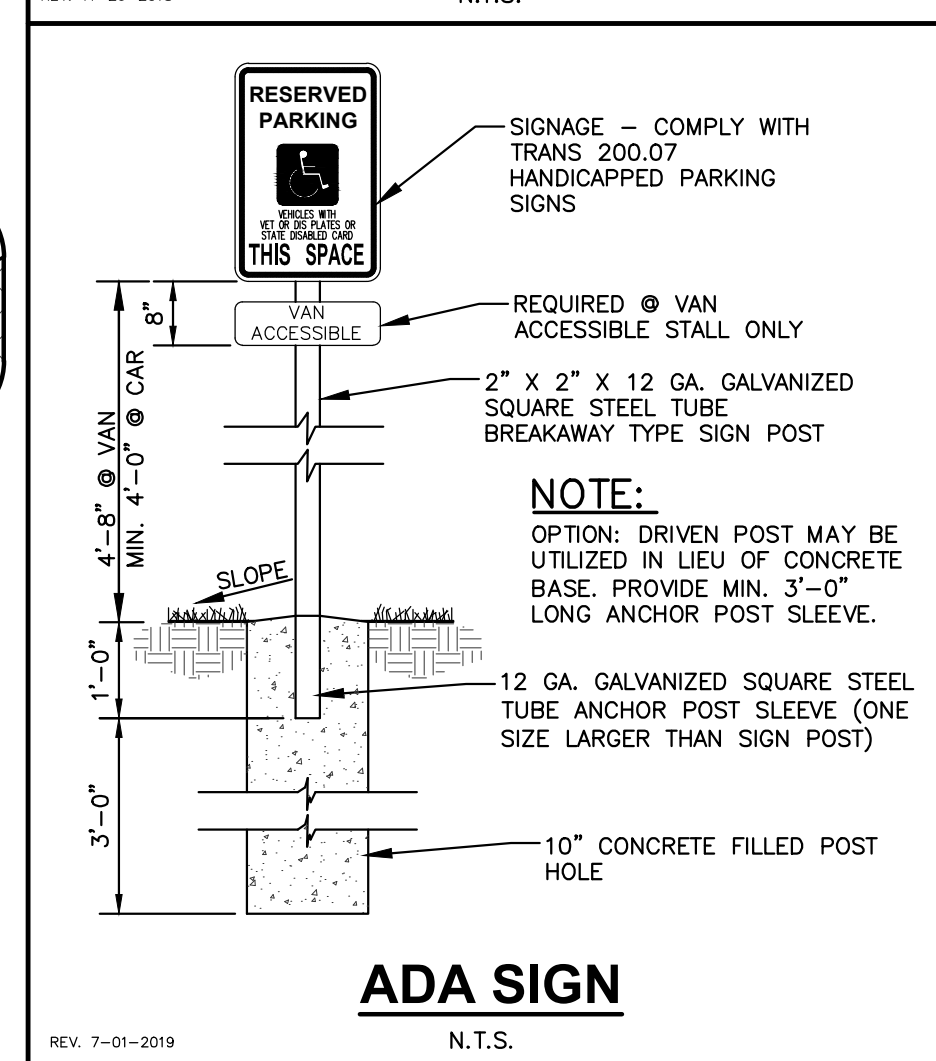
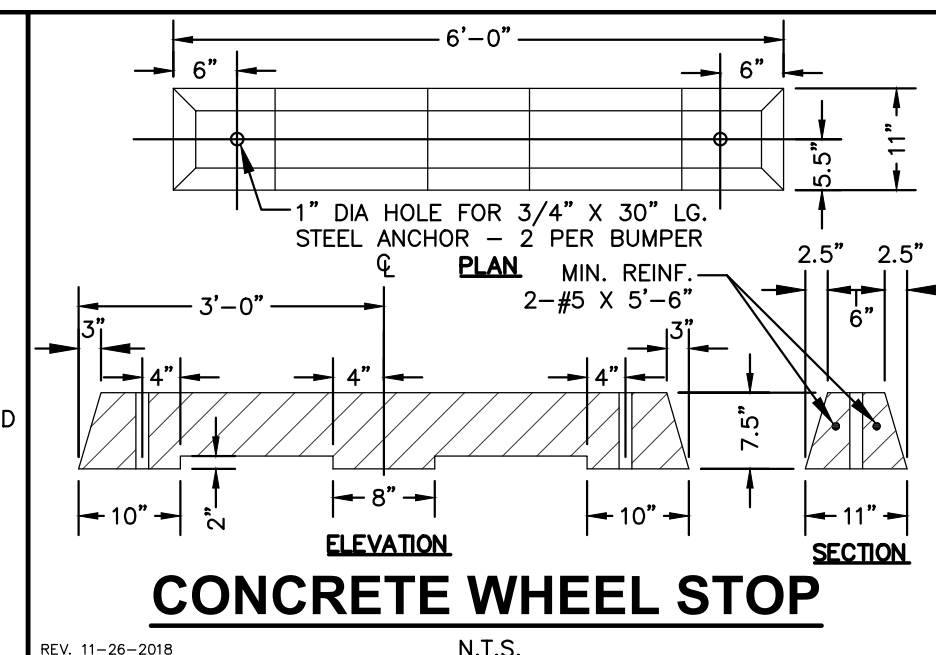
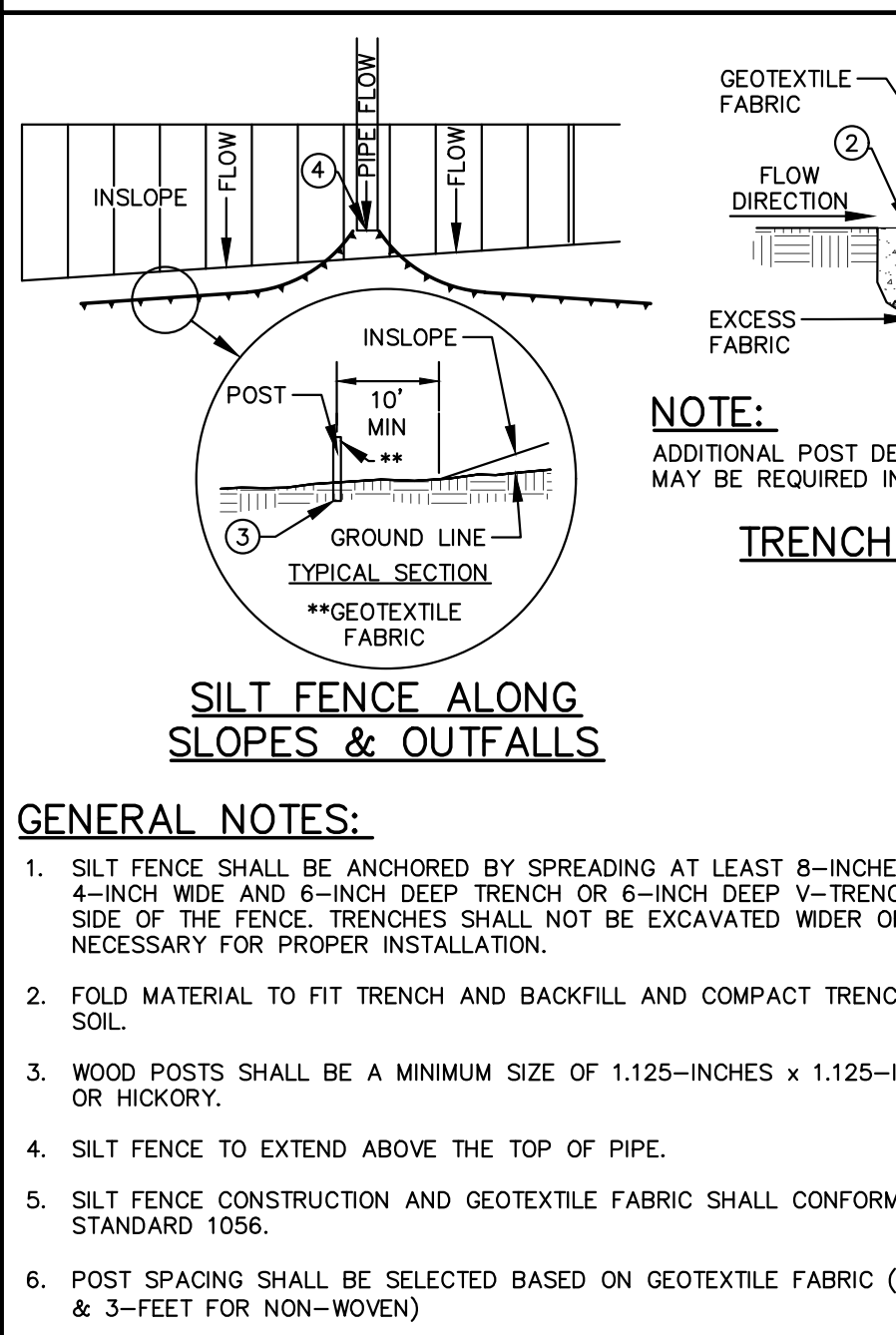
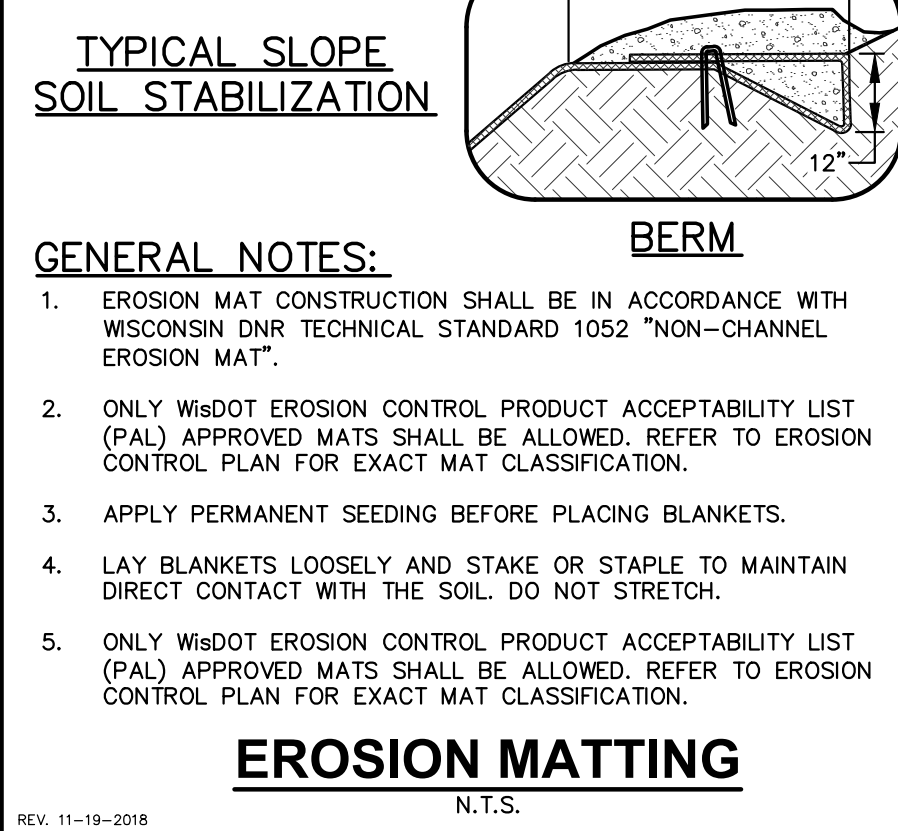
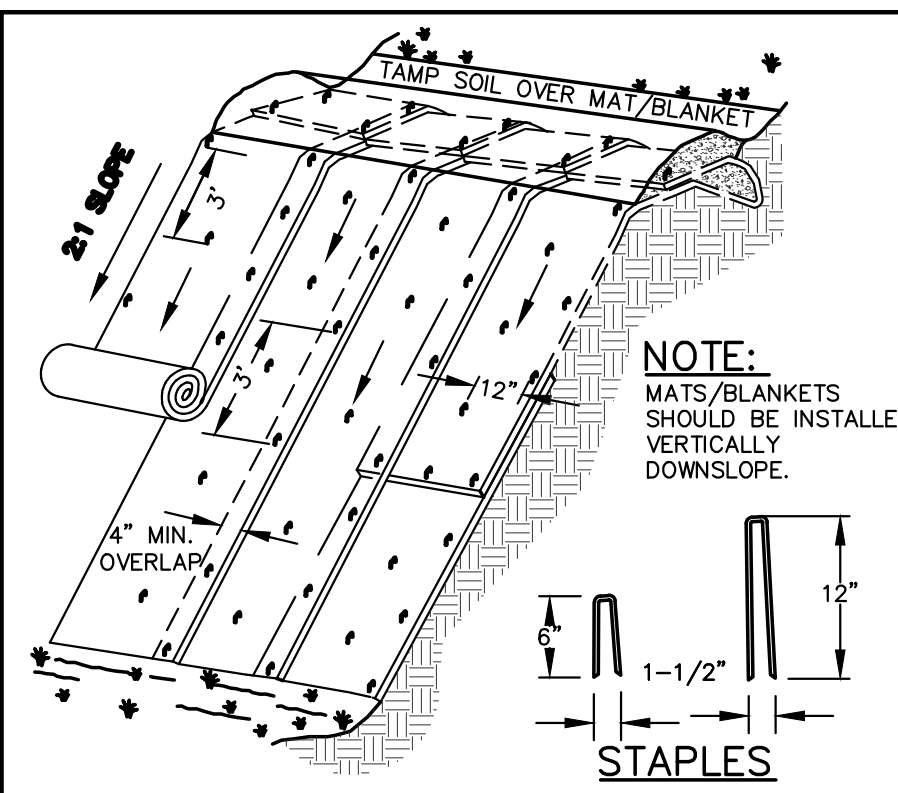
14. WATERMAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

LEGEND

- PROPERTY LINE
- BUILDING OUTLINE
- - - BUILDING OVERHANG
- SAN — SANITARY SEWER
- W — WATERMAIN
- ST — STORM SEWER
- G — GAS SERVICE
- E — ELECTRIC SERVICE
- H — HYDRANT, WATER VALVE, REDUCER
- C — CLEANOUT

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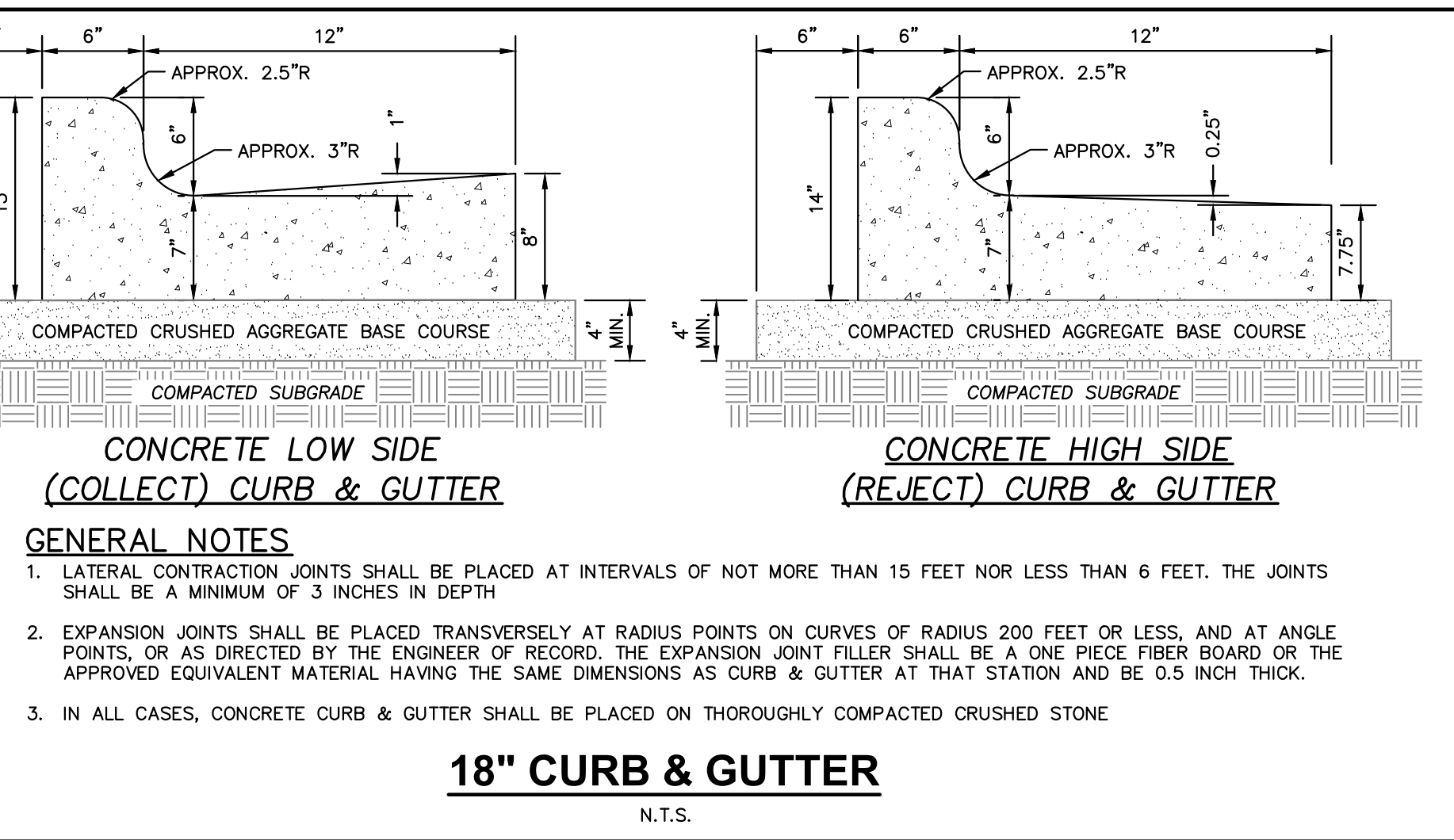
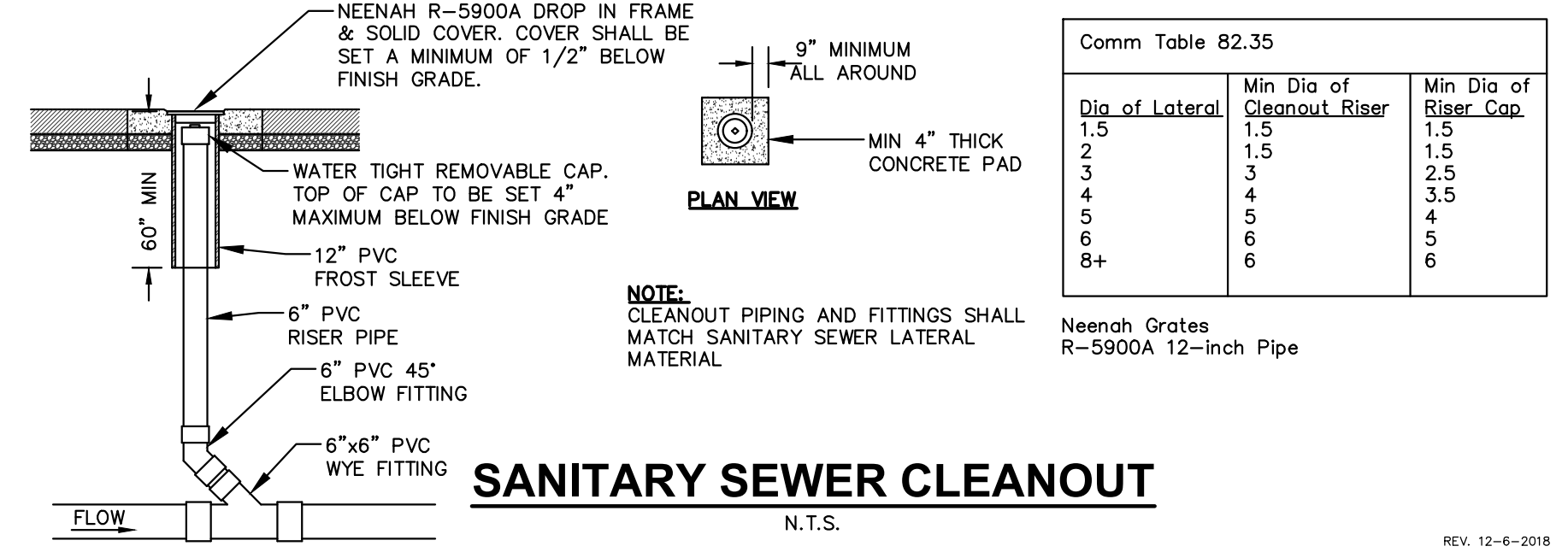
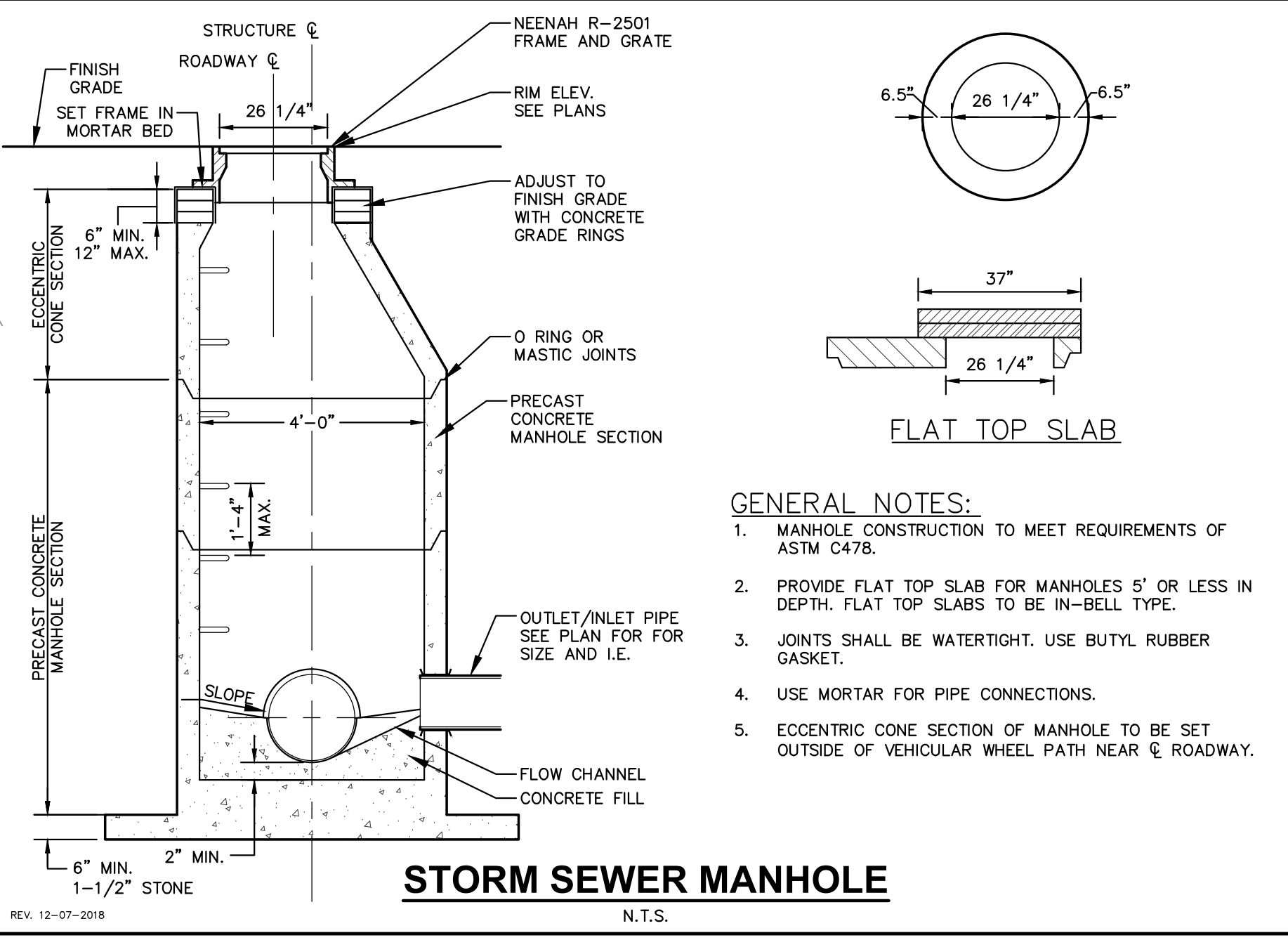
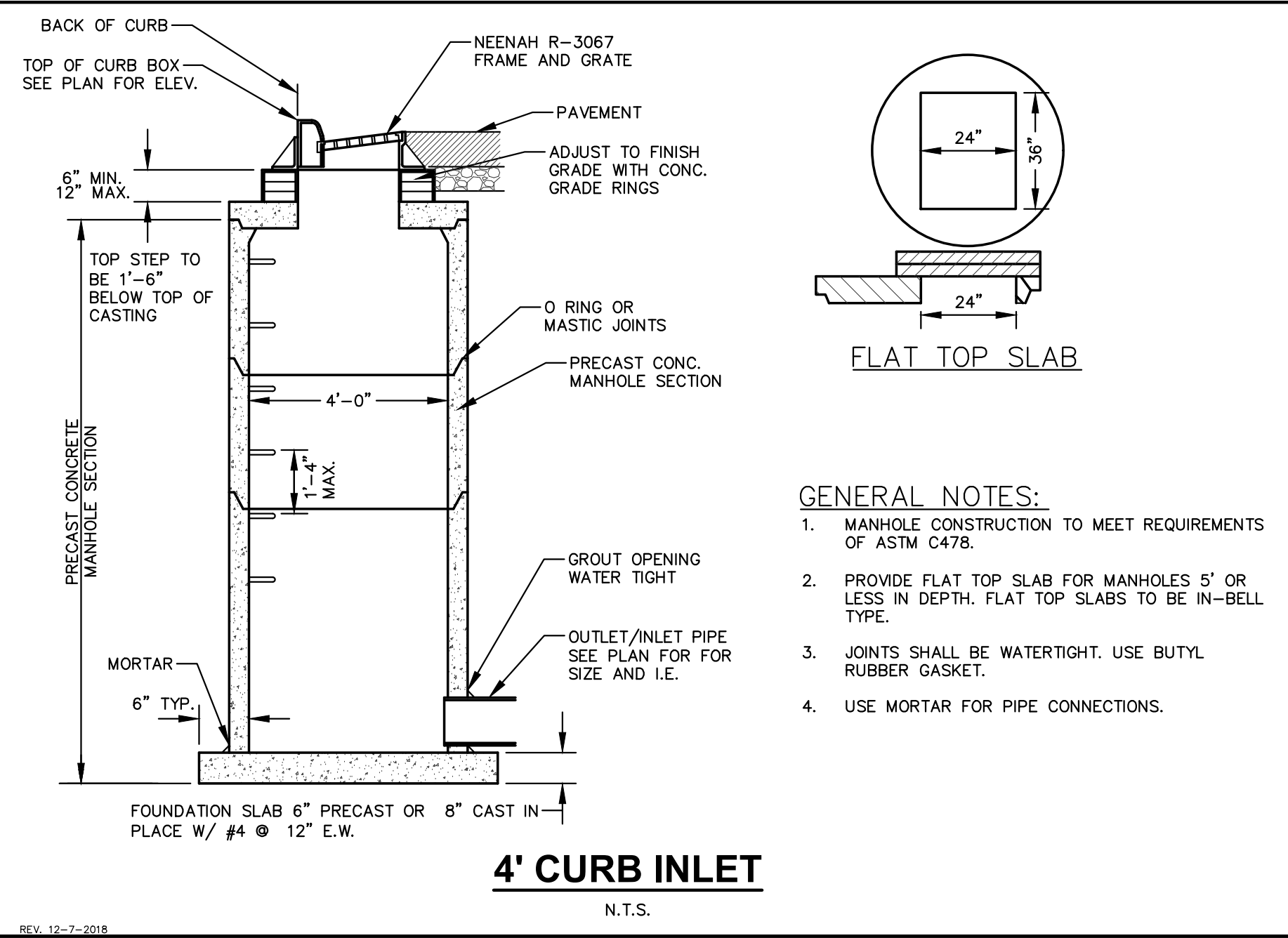
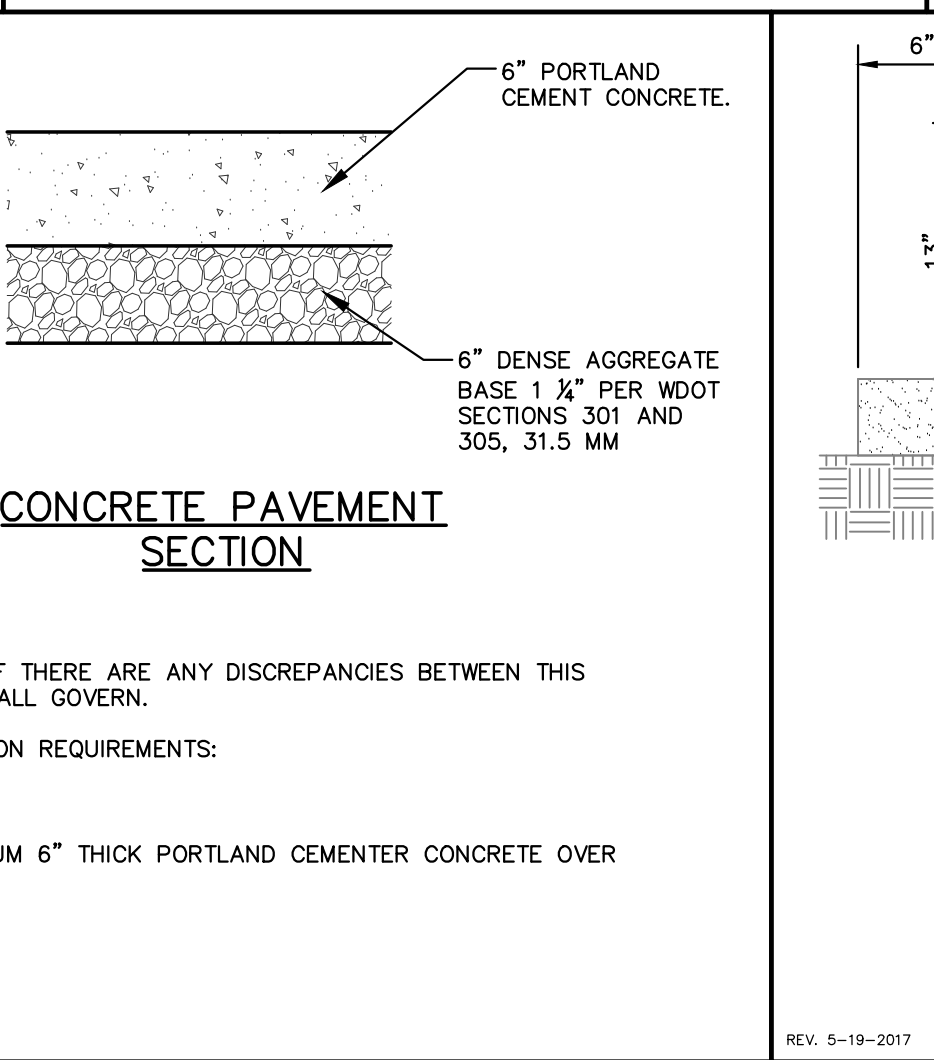
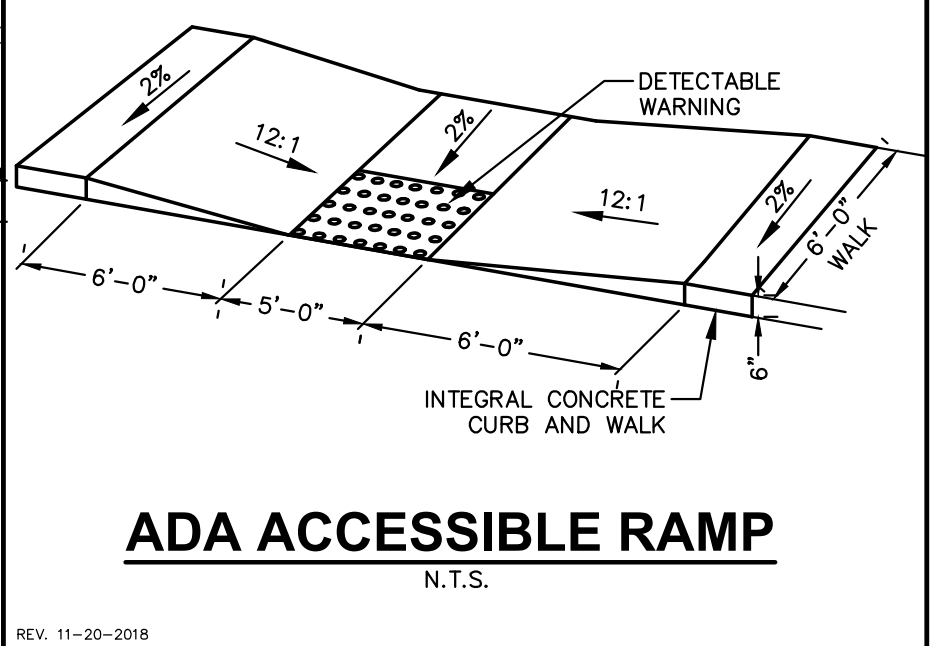
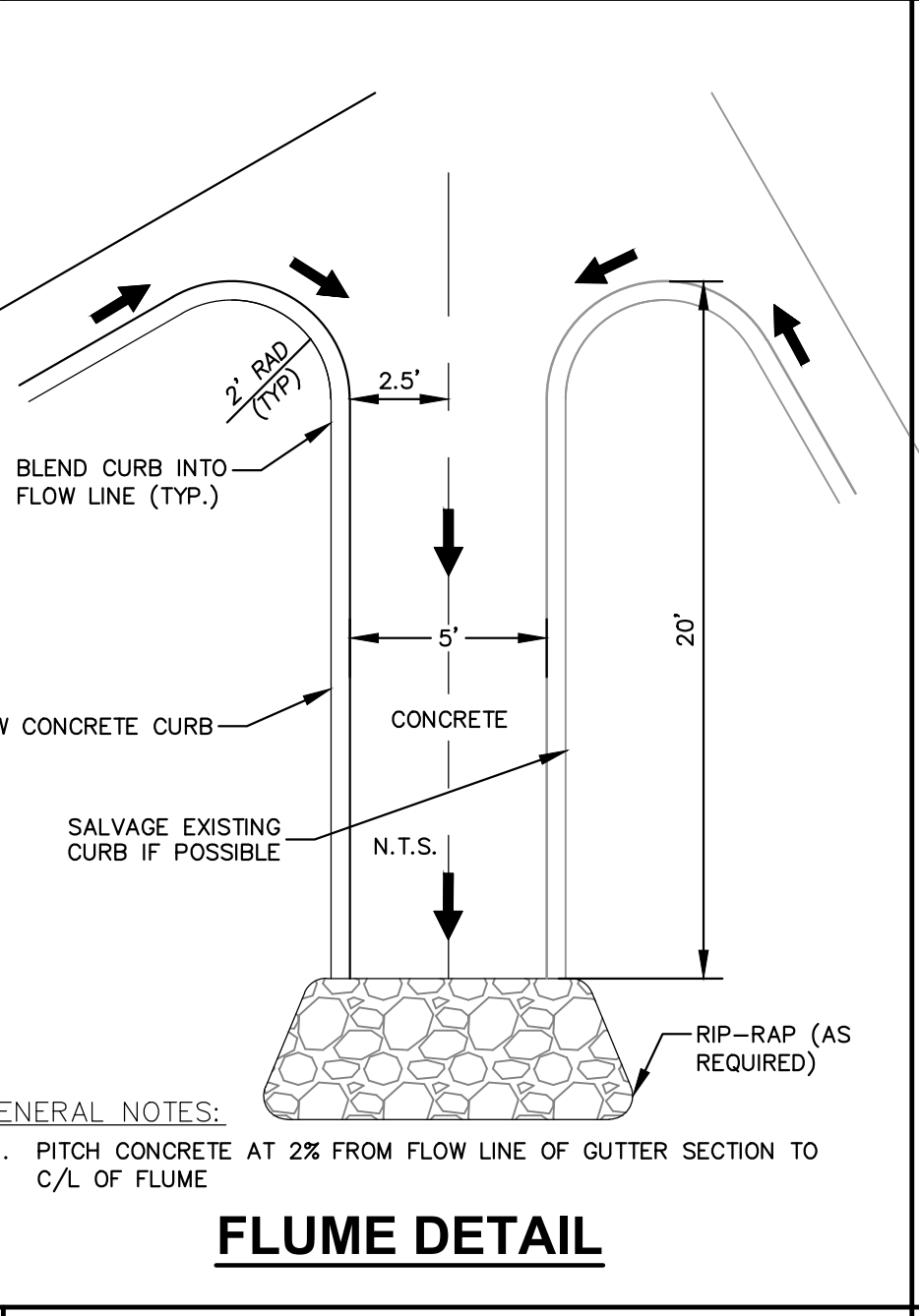
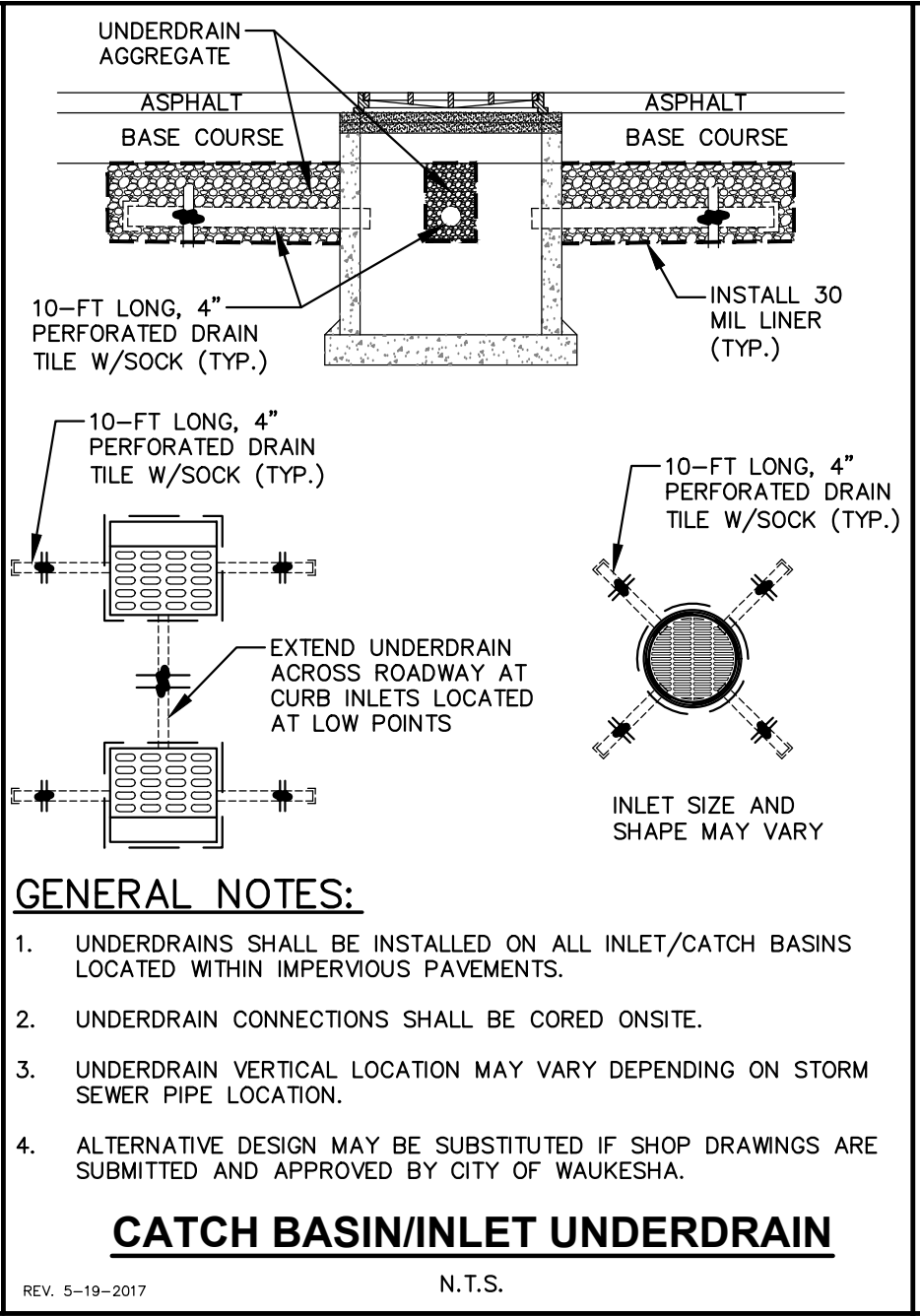
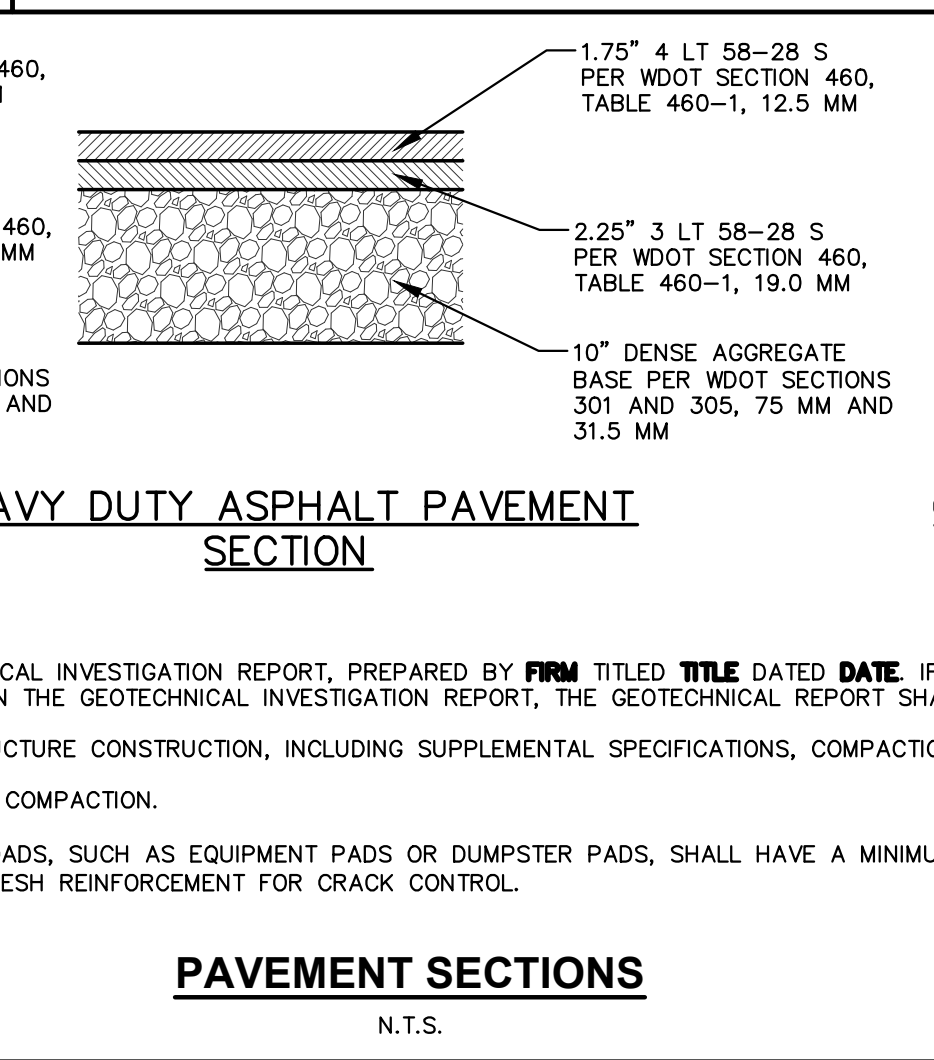
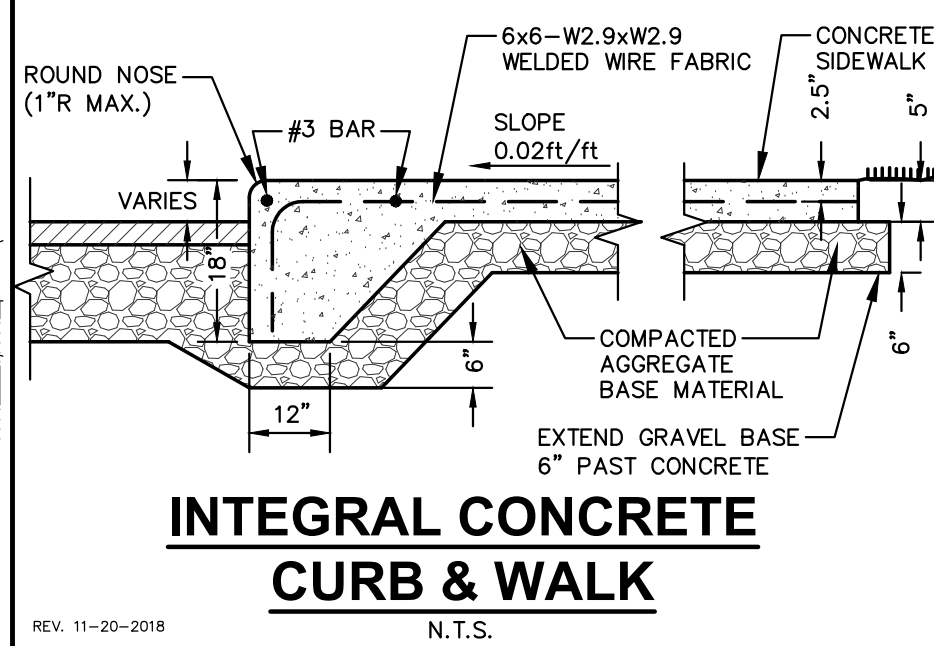
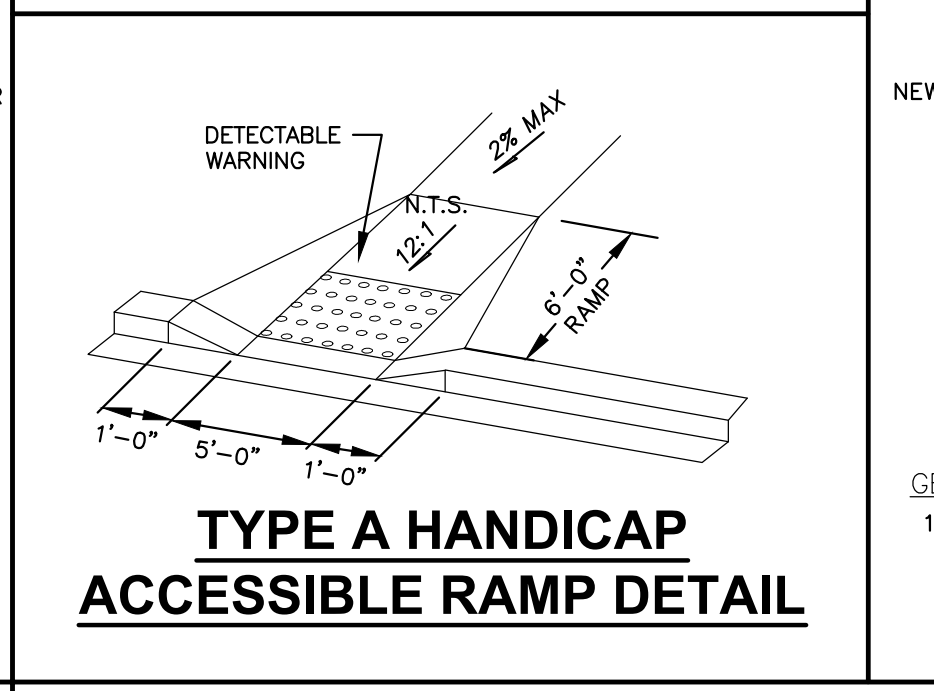
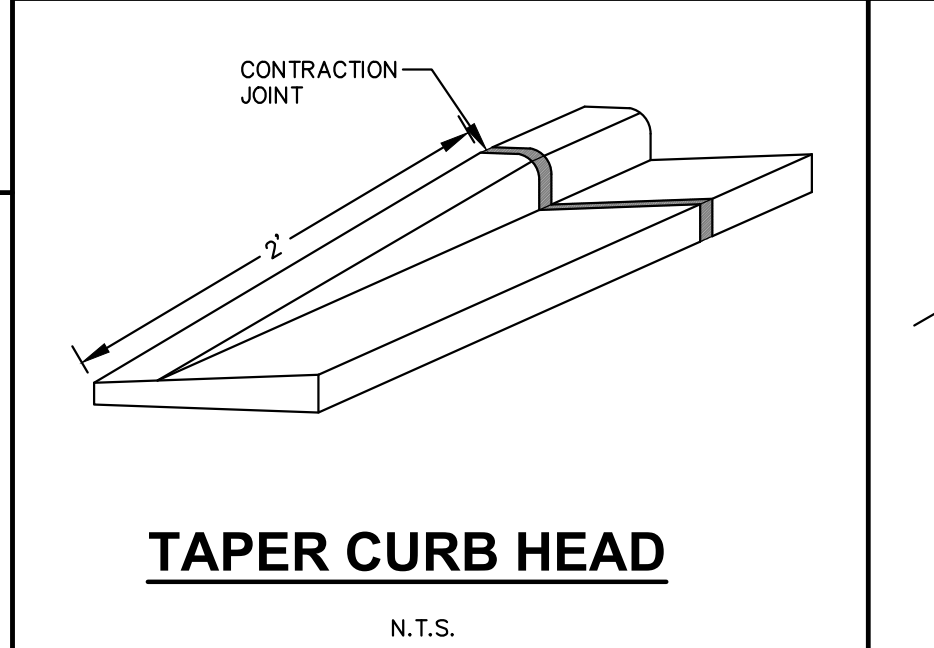
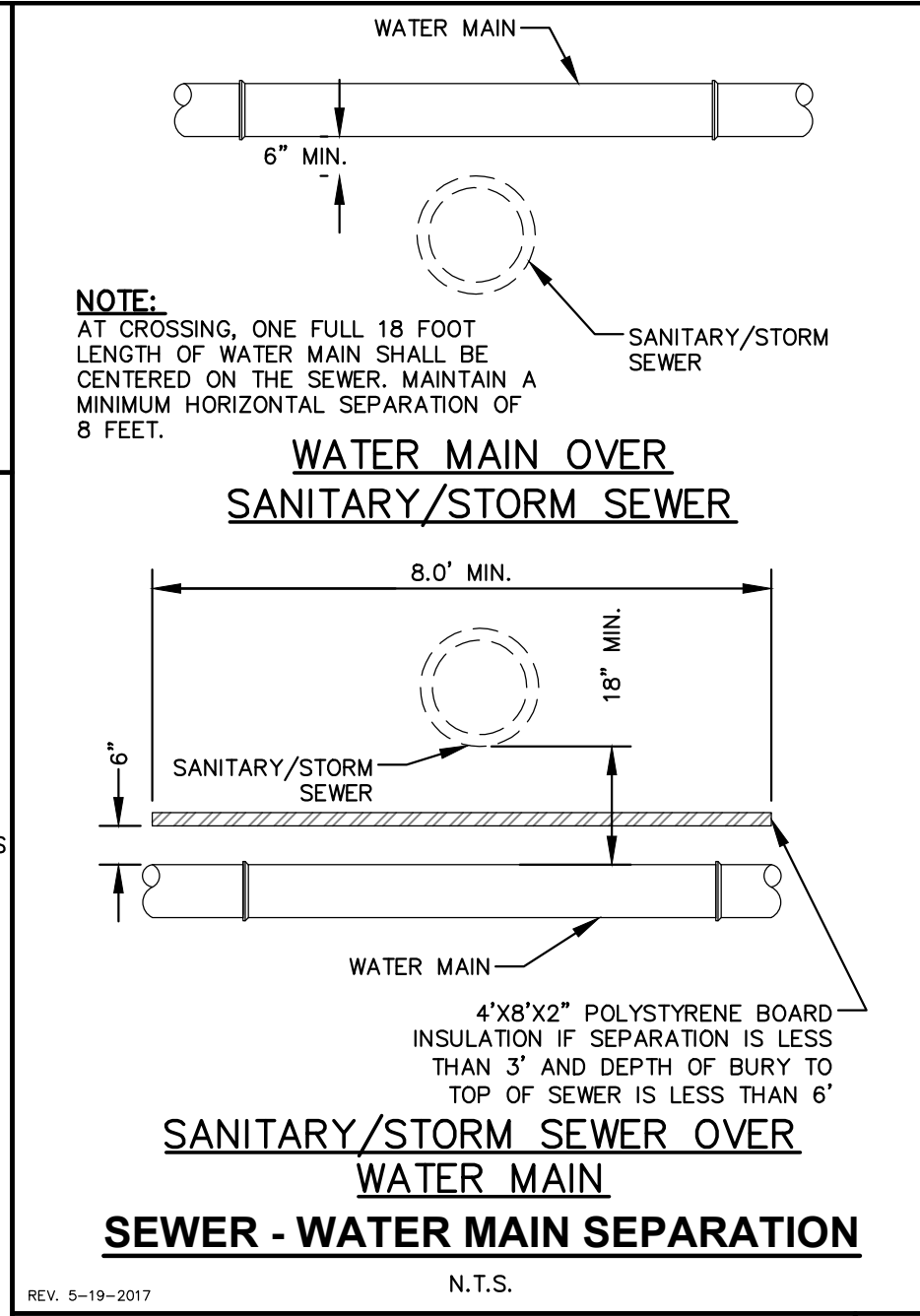
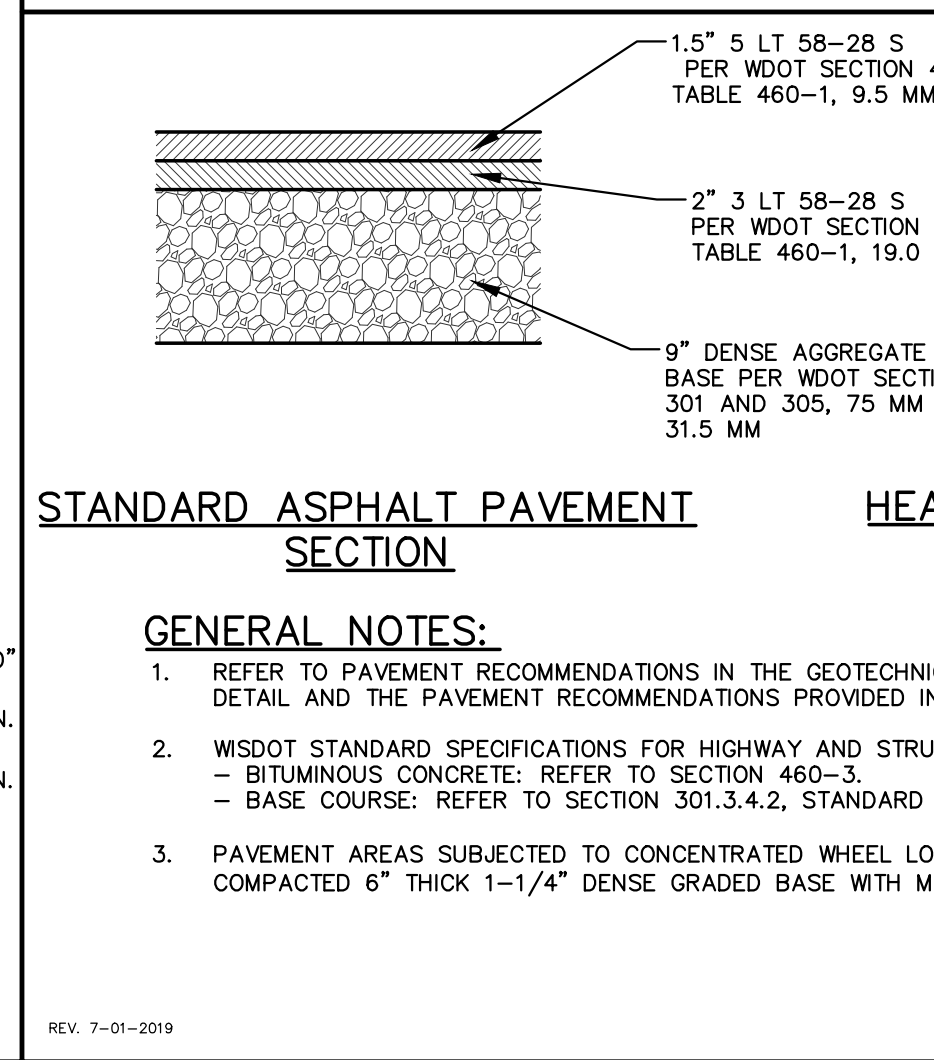
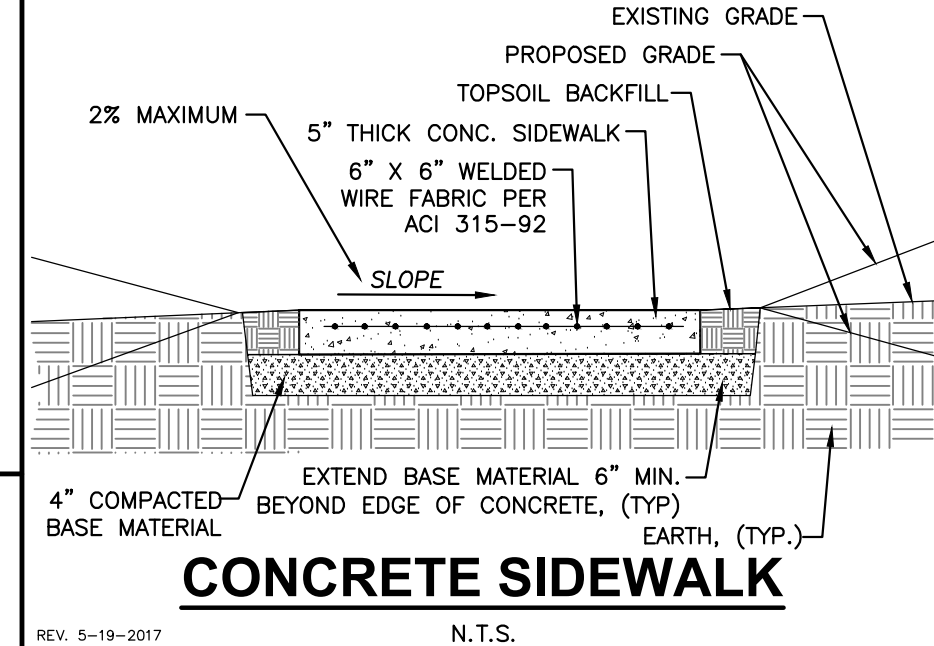
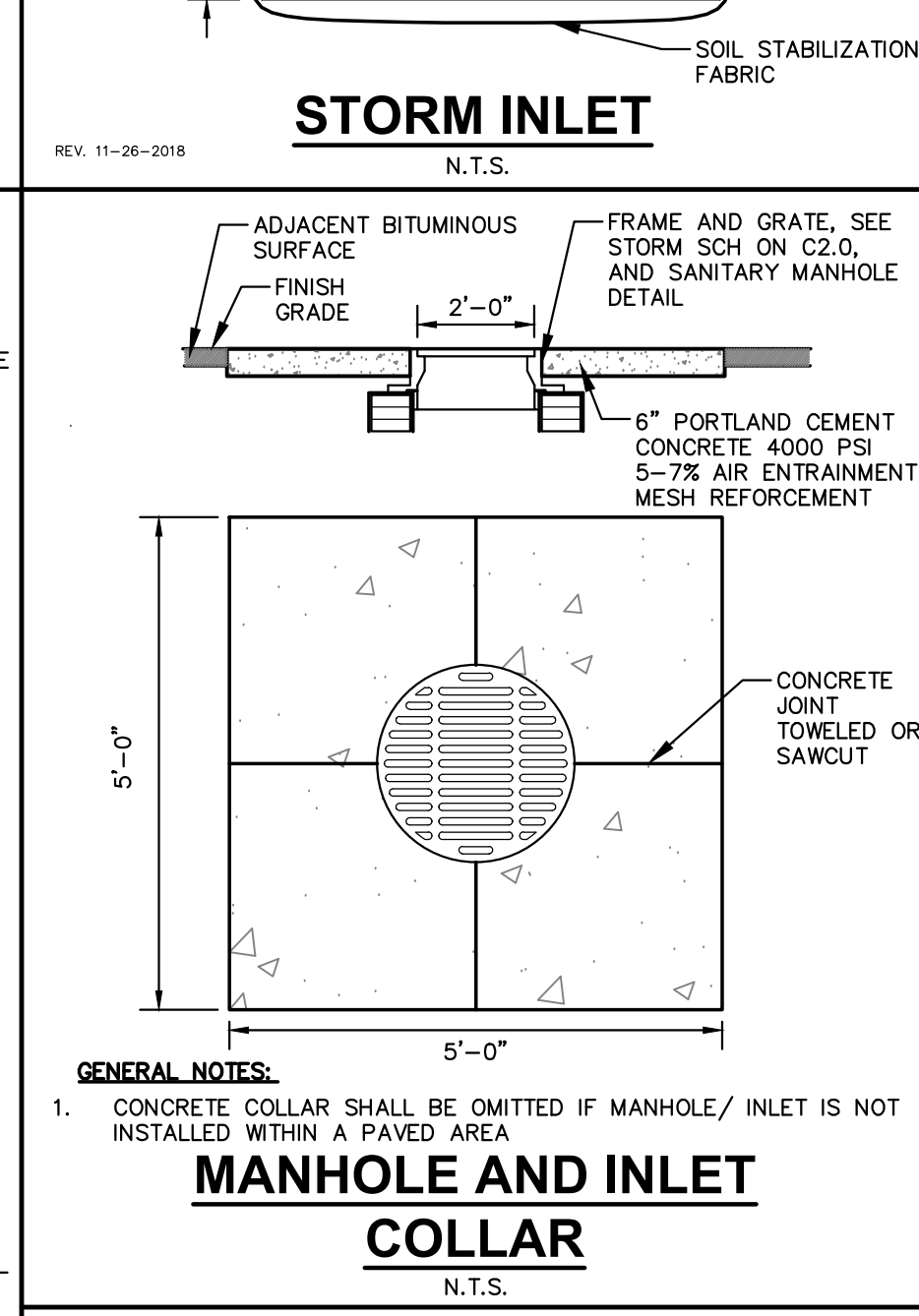
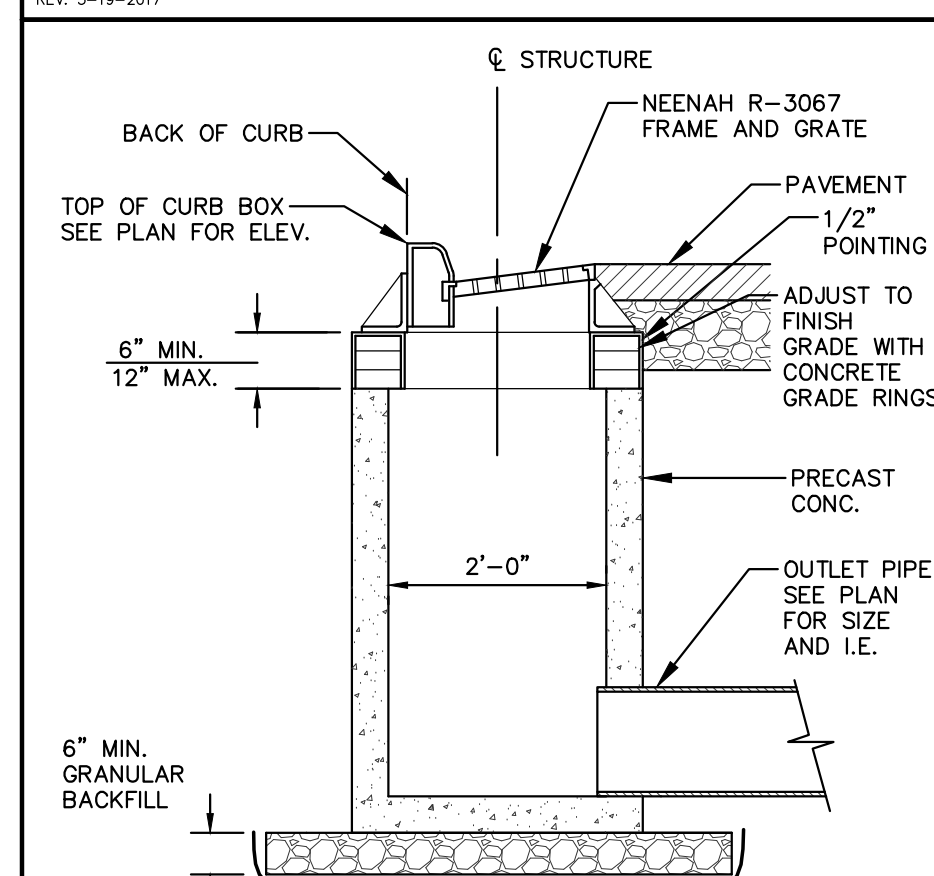
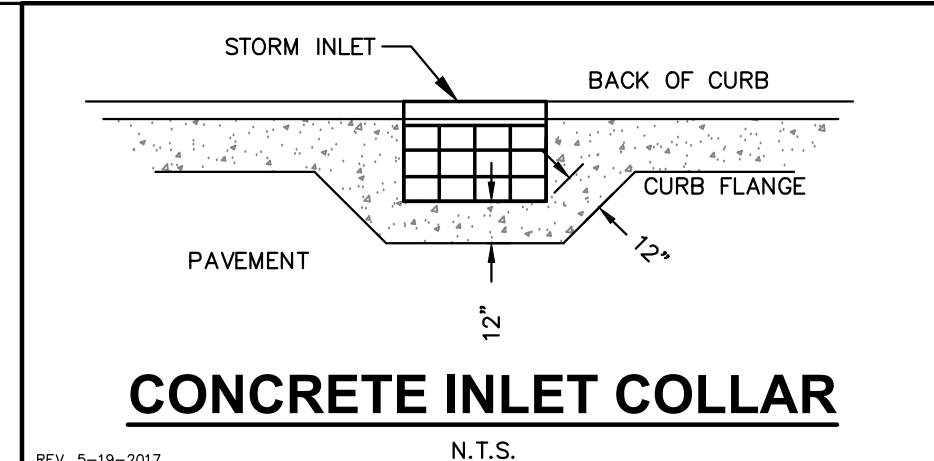
Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
NOTES & DETAILS

SHEET NUMBER:
C5.0

JSD PROJECT NO: 19-9389

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CREATE THE VISION TELL THE STORY

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APPLETON | KENOSHA | CHICAGO
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CLIENT:
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CLIENT ADDRESS:
11275 S. SAM HOUSTON PARKWAY
HOUSTON, TX 77031

PROJECT LOCATION:
**WAUKESHA, WI
WAUKESHA COUNTY**

PROJECT:
**ASCENSION
WAUKESHA - HOSPITAL**

PLAN MODIFICATIONS:

| # | Date: | Description: |
|----|------------|------------------------------------|
| 1 | 04.03.2020 | PRELIM SITE & ARCH REVIEW |
| 2 | 04.23.2020 | DESIGN DEVELOPMENT |
| 3 | 05.14.2020 | FINAL SITE AND ARCH REVIEW |
| 4 | 05.27.2020 | FINAL SITE AND ARCH REVIEW - REV 1 |
| 5 | | |
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| 15 | | |

Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
NOTES & DETAILS

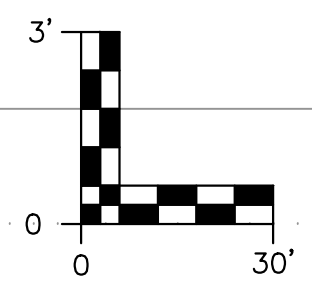
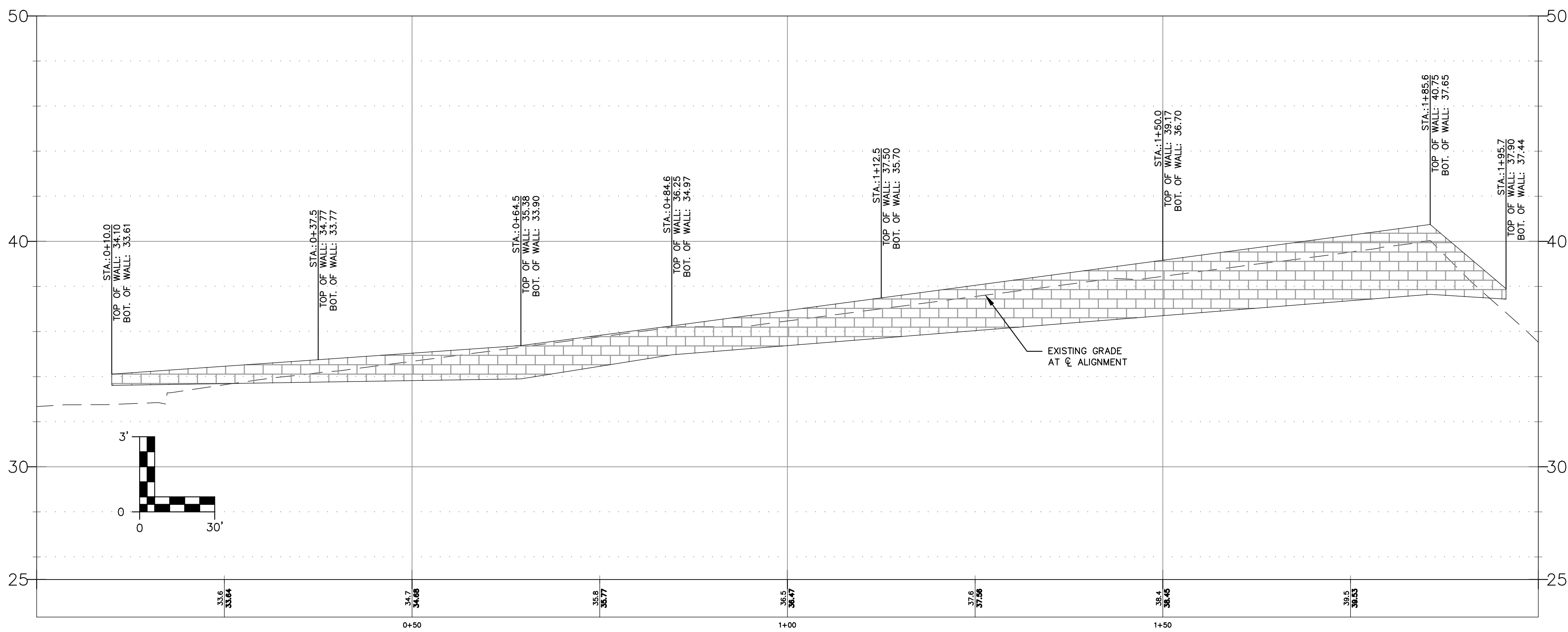
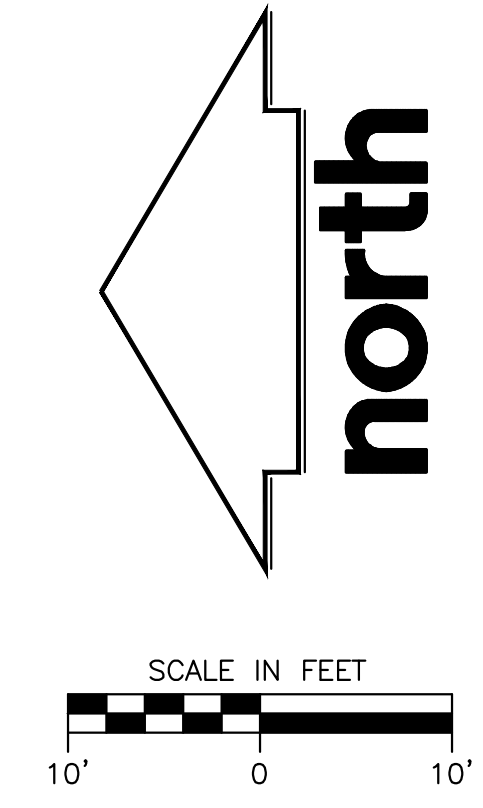
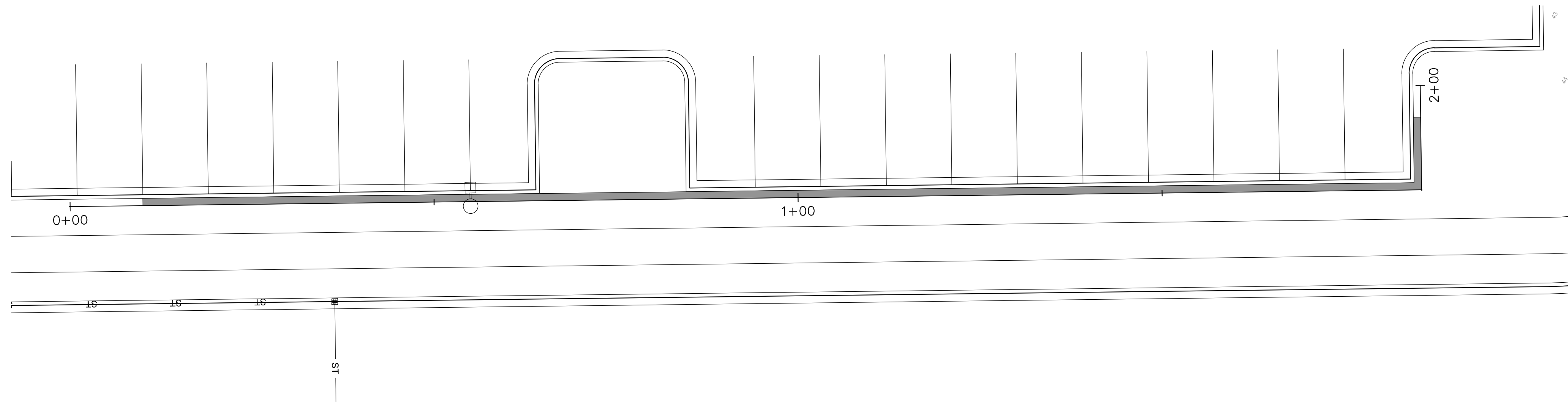
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C5.1

JSD PROJECT NO: 19-9389

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Design/Drawn: JJS
Approved: TJB
Date: 04.03.2020

SHEET TITLE:
**NOTES &
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C5.2

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