



Planning/Zoning Application

Planning & Zoning Department

Submitted On:

Nov 12, 2025, 11:00AM EST

Parcel Number: (Include ALL parcels)	WD-142 WD-144-1-1
Nearest property address to the project site:	Street Address: 925 S SIXTH ST City: DE PERE State: WI Zip: 54115
Check each project type that is being applied for:	Site Plan
Current De Pere Zoning Districts:	PI-2
Existing Site Land Uses:	Public & Civic
Proposed Site Land Uses:	Public & Civic
Does the project comply with the Comprehensive Plan?	Yes
Has City Staff been contacted for a pre-consultation meeting?	Yes
Property Owner:	First Name: Scott Last Name: Thoresen
Is the property owner's address the same as the nearest property address?	Yes
Property Owner's Phone Number:	920-339-8095
Property Owner's Email Address:	sthoresen@deperewi.gov
Is someone processing the project for the property owner as their authorized representative?	Yes
Authorized Representative's Name:	First Name: Yeechue Last Name: Thao
Authorized Representative's Business Name:	raSmith
Authorized Representative's Address:	Street Address: 100 W. Lawrence St. Authorized Representative's Address:: Ste. 306 City: Appleton State: WI Zip: 54911
Authorized Representative's Phone Number:	262-901-2236

Authorized Representative's Email Address:		yeechue.thao@rasmith.com
Please attach a PDF copy of the site plan.		DePere Municipal Services Center Renovation - CIVIL PLAN.pdf
Please attach a CAD copy of the property that shows the footprint of all hard, impervious surfaces. (Only one page needed, not the entire site plan.)		SITE PLAN CAD FILES.zip
Would you like a basic checklist of information to include in the site plan?		Yes
How do you plan on paying for your application?		City is the petitioner
Total Due:		\$350.00
Signature Data	First Name: Yeechue Last Name: Thao Email Address: yeechue.thao@rasmith.com	
	 Signed at: November 11, 2025 4:21pm America/New_York	
User's Session Information		IP Address: 67.53.179.14 Referrer URL:

**City of DePere
Municipal Services Center Renovation**

DePere, WI 54115

EH Project	161454
Checked By	BH
Drawn By	YT

REVISION SCHEDULE

REV. #	DESCRIPTION	DATE
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EXISTING CONDITIONS & DEMOLITION PLAN

C100

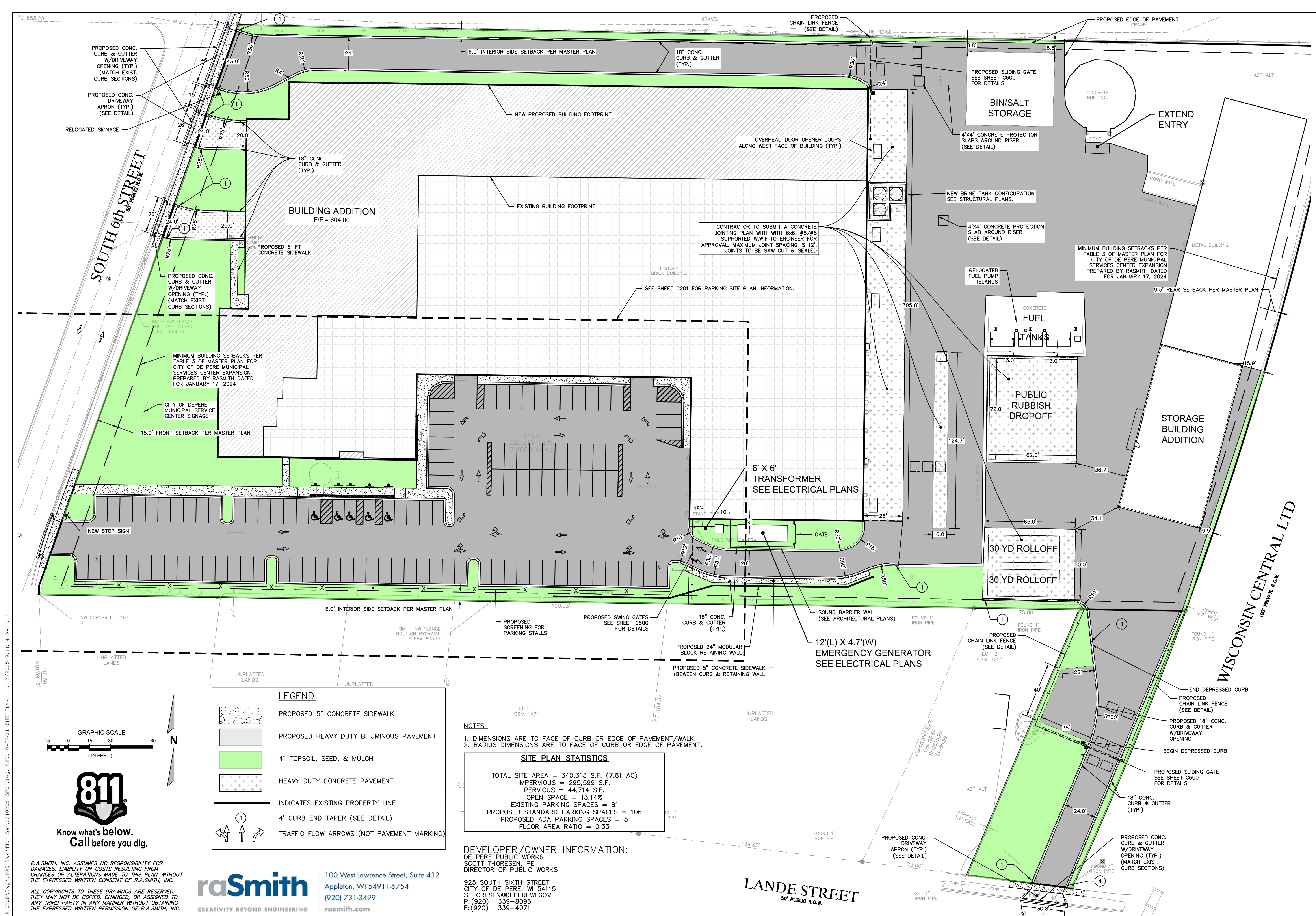


SAW CUT 1' FROM EXIST. CURB FLANGE LINE (TYP.)



Municipal Services Center Renovation

C200





NOT FOR
CONSTRUCTION

Project Owner

City of DePere
Municipal Services Center Renovation

925 S. Sixth Street
DePere, WI 54415

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SEH Project 161454
Checked By BH
Drawn By YT

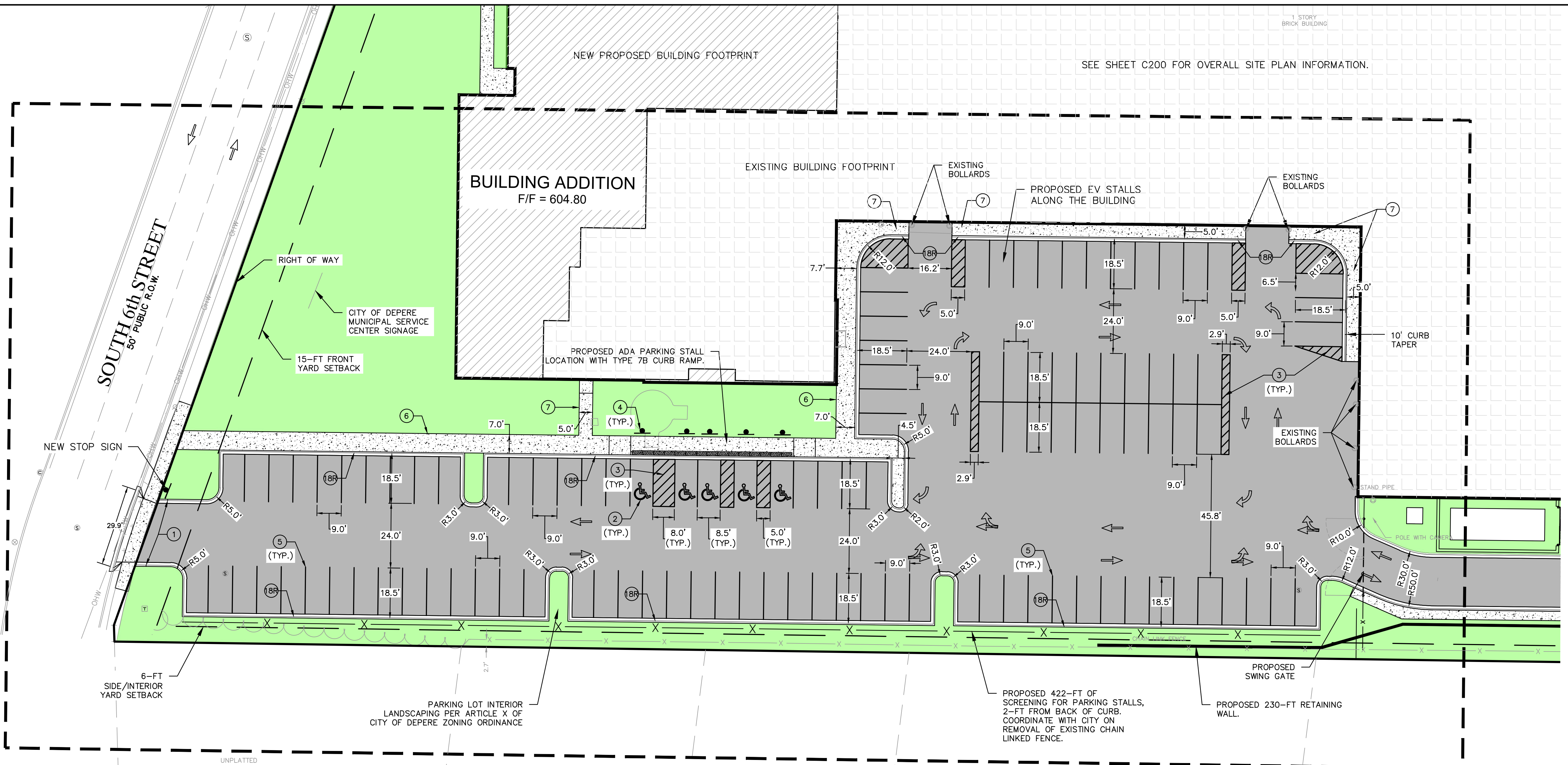
Project Status Issue Date
60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

PARKING SITE PLAN

C201

SEE SHEET C200 FOR OVERALL SITE PLAN INFORMATION.



LEGEND

PROPOSED 5" CONCRETE SIDEWALK

PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT

4" TOPSOIL, SEED, & MULCH

HEAVY DUTY CONCRETE PAVEMENT

INDICATES EXISTING PROPERTY LINE

4' CURB END TAPER (SEE DETAIL)

TRAFFIC FLOW ARROWS (NOT PAVEMENT MARKING)

PAVEMENT MARKING - ADA PARKING SYMBOL (SEE DETAIL ON SHEET C503)

PAVEMENT MARKING - AISLE, 4-INCH, WHITE (3' O.C. SPACING)

POST MOUNTED ADA SIGNAGE (SEE DETAIL ON SHEET C503)

PAVEMENT MARKING, 4-INCH WHITE

7-FT CONCRETE SIDEWALK

5-FT CONCRETE SIDEWALK

PROPOSED 18" STANDARD CURB AND GUTTER

PROPOSED 18" REJECT CURB & GUTTER

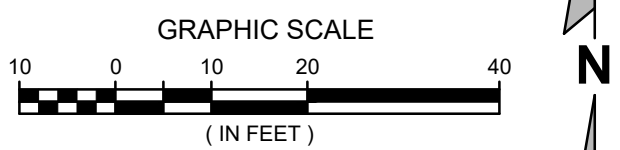
SITE PLAN STATISTICS

TOTAL SITE AREA = 340,313 S.F. (7.81 AC)
IMPERVIOUS = 295,599 S.F.
PERVIOUS = 44,714 S.F.
OPEN SPACE = 13.14%
EXISTING PARKING SPACES = 81
PROPOSED STANDARD PARKING SPACES = 106
PROPOSED ADA PARKING SPACES = 5
FLOOR AREA RATIO = 0.33

DEVELOPER/OWNER INFORMATION:
CITY OF DE PERE - DE PERE PUBLIC WORKS
SCOTT THORESEN, PE
DIRECTOR OF PUBLIC WORKS
335 S. BROADWAY ST.
CITY OF DE PERE, WI 54415
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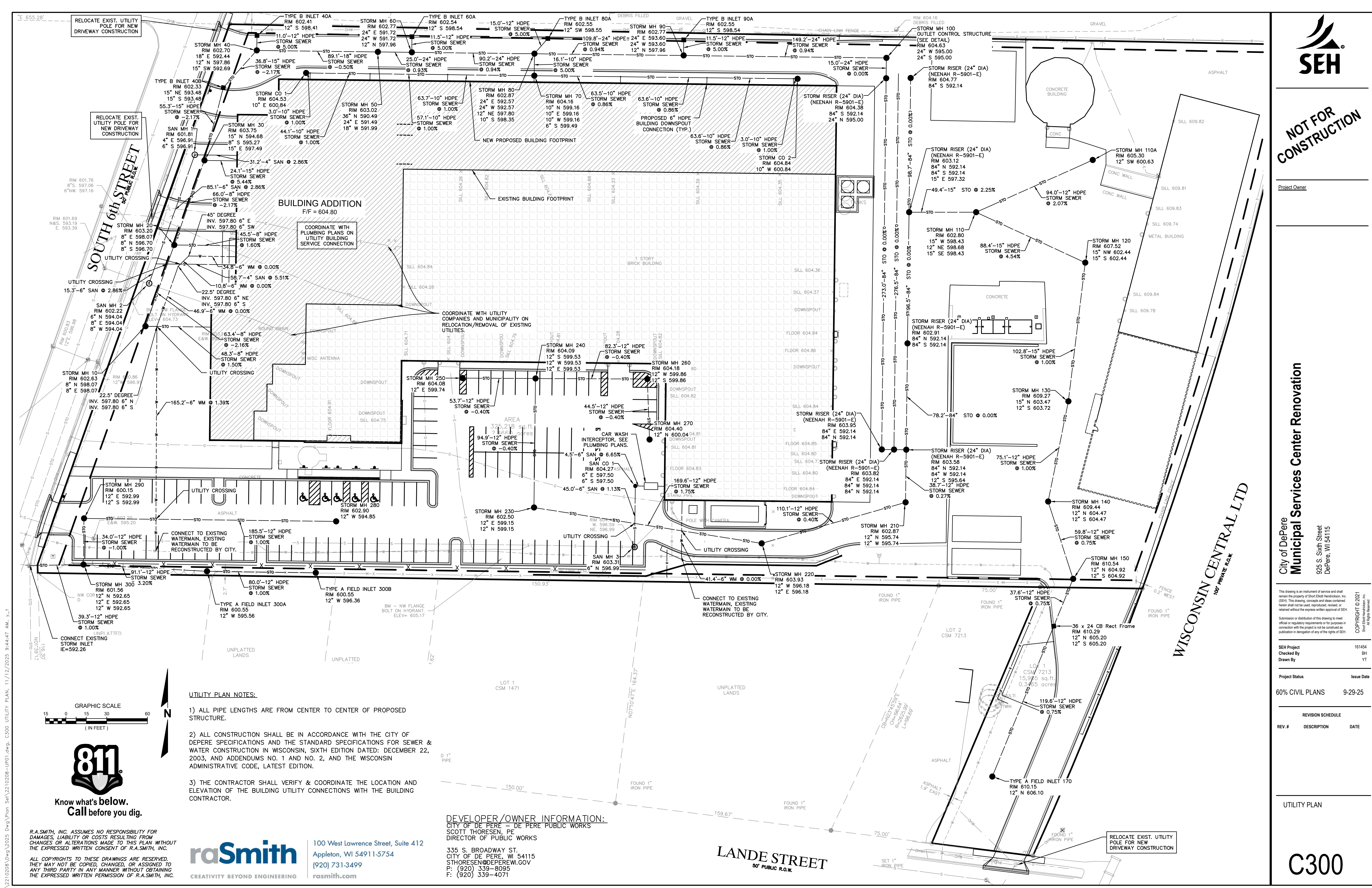
raSmith
CREATIVITY BEYOND ENGINEERING



811
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UTILITY PLAN NOTES:

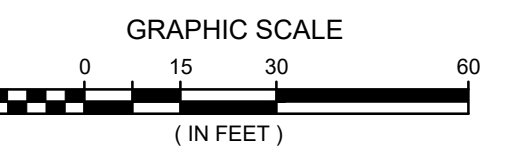
- 1) ALL PIPE LENGTHS ARE FROM CENTER TO CENTER OF PROPOSED STRUCTURE.
- 2) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF DEPERE SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION DATED: DECEMBER 22, 2003, AND ADDENDUMS NO. 1 AND NO. 2, AND THE WISCONSIN ADMINISTRATIVE CODE, LATEST EDITION.
- 3) THE CONTRACTOR SHALL VERIFY & COORDINATE THE LOCATION AND ELEVATION OF THE BUILDING UTILITY CONNECTIONS WITH THE BUILDING CONTRACTOR.

DEVELOPER/OWNER INFORMATION:

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NOT FOR CONSTRUCTION

Project Owner

City of DePere
Municipal Services Center Renovation
925 S. Sixth Street
DePere, WI 54115

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SEH Project	161454
Checked By	BH
Drawn By	YT

Project Status	Issue Date
60% CIVIL PLANS	9-29-25

REVISION SCHEDULE		
REV. #	DESCRIPTION	DATE

UTILITY PLAN

C300



NOT FOR
CONSTRUCTION

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DePere, WI 54115

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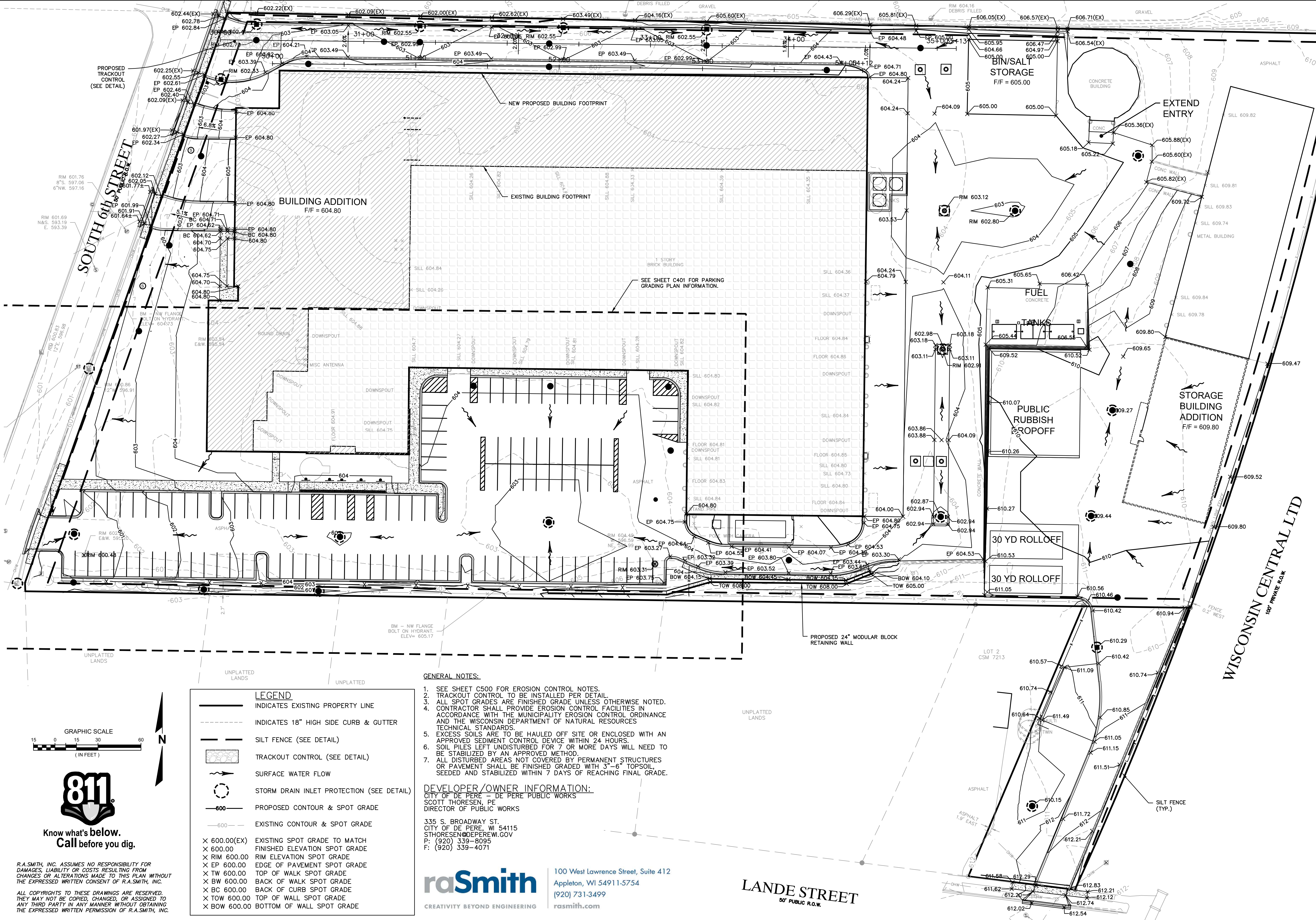
SEH Project 161454
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Project Status Issue Date
60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

OVERALL GRADING &
EROSION CONTROL PLAN

C400



GENERAL NOTES:

- SEE SHEET C500 FOR EROSION CONTROL NOTES.
- TRACKOUT CONTROL TO BE INSTALLED PER DETAIL.
- ALL SPOT GRADES ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE MUNICIPALITY EROSION CONTROL ORDINANCE AND THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EXCESS SOILS ARE TO BE HAULED OFF SITE OR ENCLOSED WITH AN APPROVED SEDIMENT CONTROL DEVICE WITHIN 24 HOURS.
- SOIL PILES LEFT UNDISTURBED FOR 7 OR MORE DAYS WILL NEED TO BE STABILIZED BY AN APPROVED METHOD.
- ALL DISTURBED AREAS NOT COVERED BY PERMANENT STRUCTURES OR PAVEMENT SHALL BE FINISHED GRADED WITH 3"-6" TOPSOIL, SEEDED AND STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE.

DEVELOPER / OWNER INFORMATION:

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LANDE STREET
50' PUBLIC R.O.W.

LEGEND

- INDICATES EXISTING PROPERTY LINE
- INDICATES 18" HIGH SIDE CURB & GUTTER
- SILT FENCE (SEE DETAIL)
- TRACKOUT CONTROL (SEE DETAIL)
- SURFACE WATER FLOW
- STORM DRAIN INLET PROTECTION (SEE DETAIL)
- PROPOSED CONTOUR & SPOT GRADE
- EXISTING CONTOUR & SPOT GRADE

- X 600.00(EX) EXISTING SPOT GRADE TO MATCH
- X 600.00 FINISHED ELEVATION SPOT GRADE
- X RIM 600.00 RIM ELEVATION SPOT GRADE
- X EP 600.00 EDGE OF PAVEMENT SPOT GRADE
- X TW 600.00 TOP OF WALK SPOT GRADE
- X BW 600.00 BACK OF WALK SPOT GRADE
- X BC 600.00 BACK OF CURB SPOT GRADE
- X TOW 600.00 TOP OF WALL SPOT GRADE
- X BOW 600.00 BOTTOM OF WALL SPOT GRADE

GRAPHIC SCALE
15 0 15 30 60
(IN FEET)



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SEH Project 161454
Checked By BH
Drawn By YT

Project Status Issue Date
60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

PARKING GRADING PLAN

C401

SEE SHEET C400 FOR OVERALL
GRADING PLAN INFORMATION.

BUILDING ADDITION
F/F = 604.80

BM - NW FLANGE
BOLT ON HYDRANT.
ELEV= 605.17

LEGEND

- INDICATES EXISTING PROPERTY LINE
- INDICATES 18" HIGH SIDE CURB & GUTTER
- SILT FENCE (SEE DETAIL)
- TRACKOUT CONTROL (SEE DETAIL)
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- PROPOSED CONTOUR & SPOT GRADE
- EXISTING CONTOUR & SPOT GRADE

- × 600.00(EX) EXISTING SPOT GRADE TO MATCH FINISHED ELEVATION SPOT GRADE
- × 600.00 RIM ELEVATION SPOT GRADE
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- × BOW 600.00 BOTTOM OF WALL SPOT GRADE

GENERAL NOTES:

- SEE SHEET C500 FOR EROSION CONTROL NOTES.
- TRACKOUT CONTROL TO BE INSTALLED PER DETAIL.
- ALL SPOT GRADES ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE MUNICIPALITY EROSION CONTROL ORDINANCE AND THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EXCESS SOILS ARE TO BE HAULED OFF SITE OR ENCLOSED WITH AN APPROVED SEDIMENT CONTROL DEVICE WITHIN 24 HOURS.
- SOIL PILES LEFT UNDISTURBED FOR 7 OR MORE DAYS WILL NEED TO BE STABILIZED BY AN APPROVED METHOD.
- ALL DISTURBED AREAS NOT COVERED BY PERMANENT STRUCTURES OR PAVEMENT SHALL BE FINISHED GRADED WITH 3"-6" TOPSOIL, SEEDED AND STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE.

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50' PUBLIC R.O.W.

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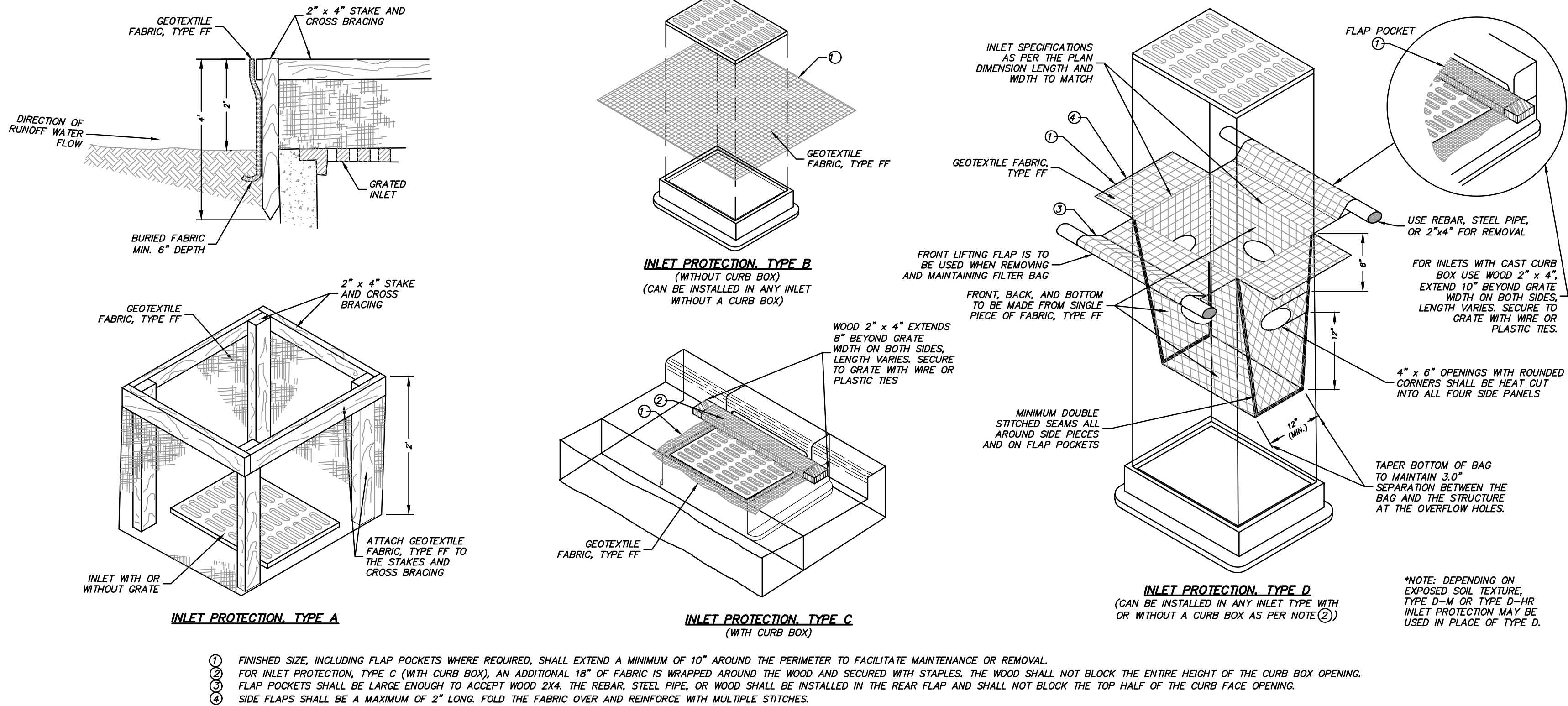
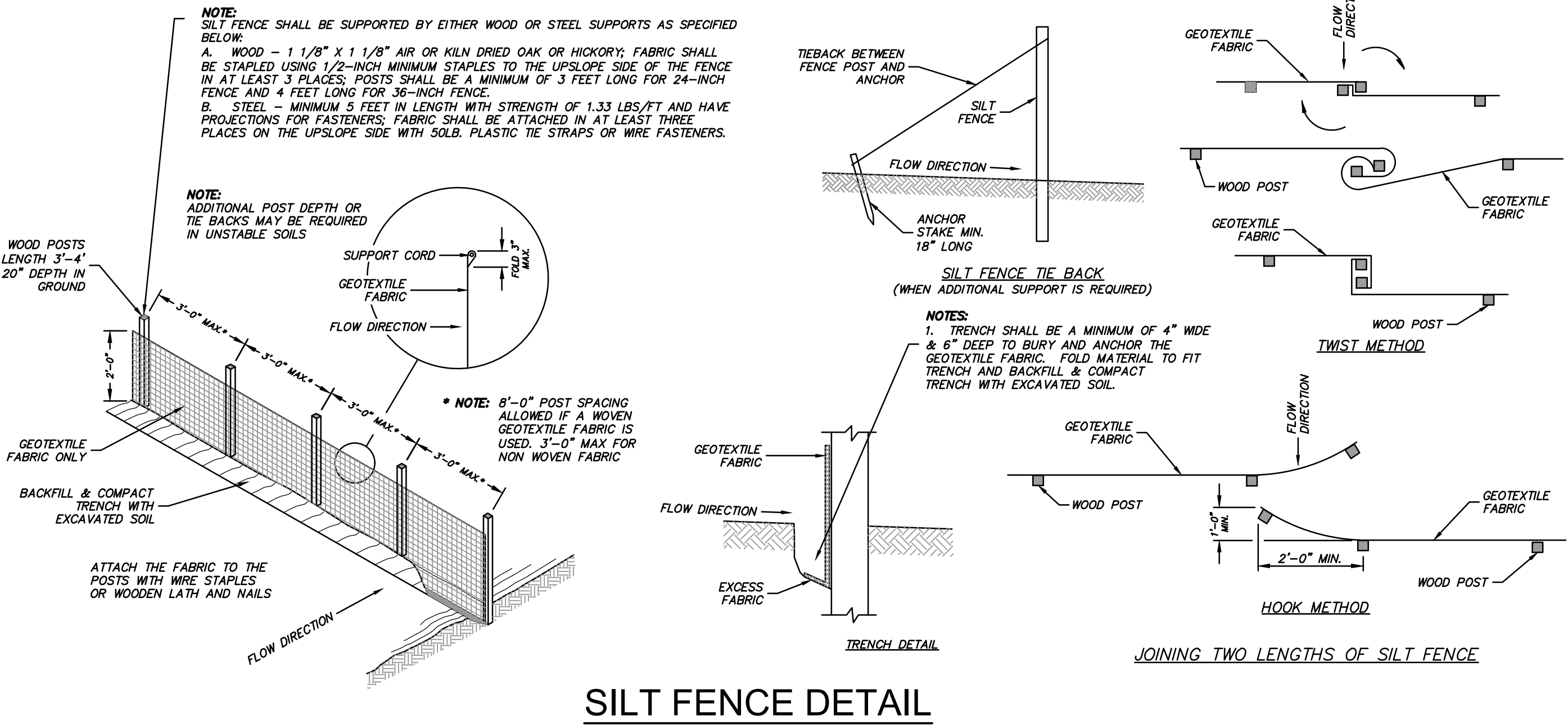
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EROSION CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH THE DNR WPDES GENERAL PERMIT.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR FOURTEEN DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WSDOT STANDARD SPECIFICATIONS. USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
7. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1050.
8. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT REACHES HALF THE HEIGHT OF THE FENCE. THE SILT FENCE SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
9. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
10. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
11. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
12. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
13. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
14. ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.

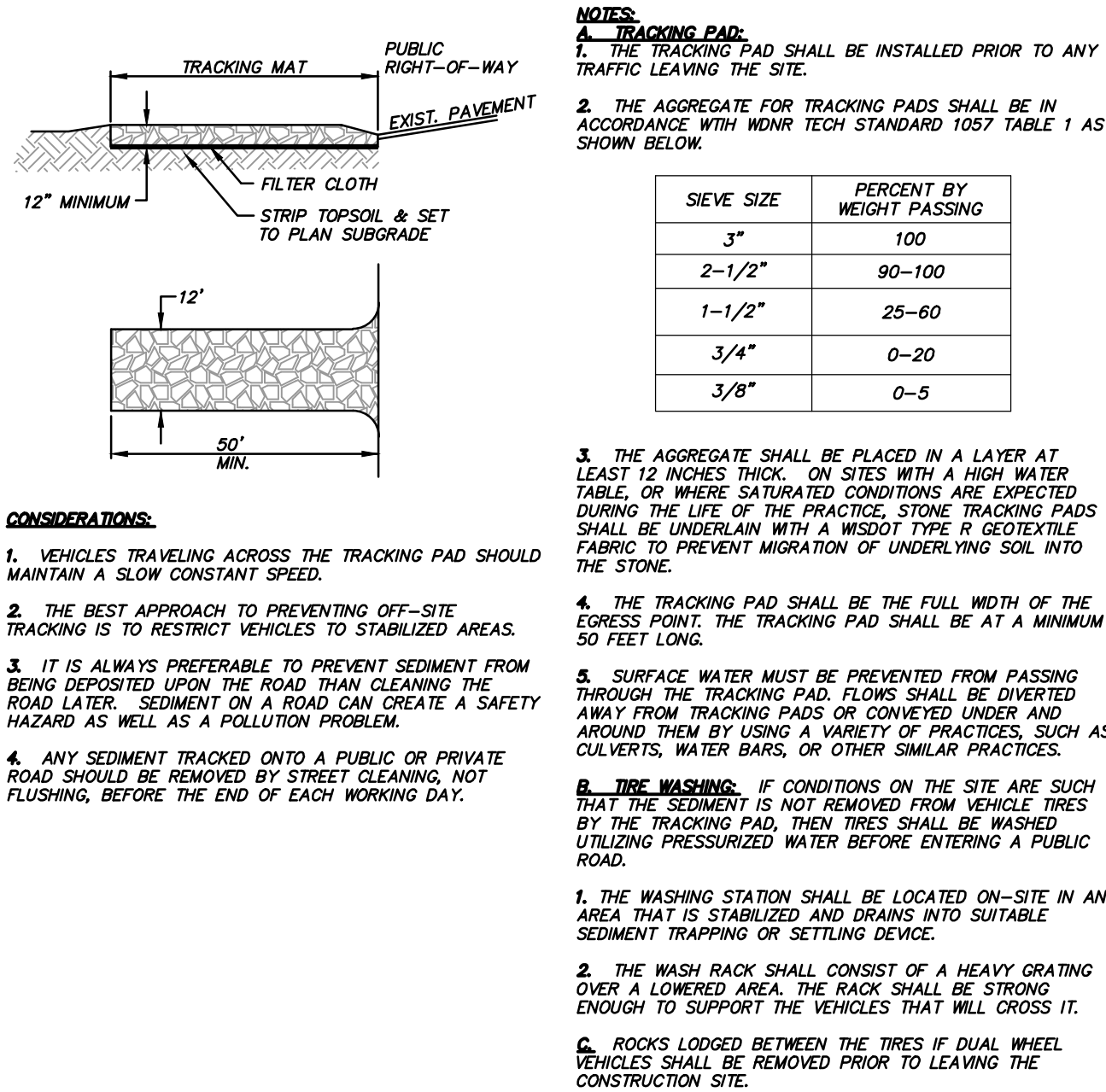
- NOTES:
1. SILT FENCE INSTALLATION AND MATERIALS SHALL CONFORM TO WDNR CONSERVATION STANDARD 1056
 2. SILT FENCE SHALL BE PLACED ON THE CONTOUR AND NOT PERPENDICULAR TO THE CONTOUR. THE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE.
 3. WHEN SILT FENCE IS INSTALLED ON A SLOPE, THE PARALLEL SPACING SHALL NOT EXCEED THE REQUIREMENTS IN THE TABLE BELOW:
- | SLOPE | FENCE SPACING |
|-----------|---------------|
| < 2% | 100 FEET |
| 2 TO 5% | 75 FEET |
| 5 TO 10% | 50 FEET |
| 10 TO 33% | 25 FEET |
| > 33% | 20 FEET |
4. INSTALLED SILT FENCES SHALL BE MINIMUM 14 INCHES HIGH AND A MAXIMUM OF 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
 5. A MINIMUM OF 20 INCHES OF THE POST SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
 6. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4-INCH TRENCH WIDE BY 6-INCH DEEP TRENCH, OR 6-INCH V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED WIDER THAN NECESSARY FOR PROPER INSTALLATION.
 7. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:
 - A) TWIST METHOD---OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
 - B) HOOK METHOD---HOOK THE END OF EACH SILT FENCE LENGTH.
 8. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
 9. DAMAGED OR DECOMPOSED FENCES, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
 10. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH ONE HALF THE HEIGHT OF THE FENCE.
 11. SILT FENCES SHALL BE REMOVED ONCE THE DISTURBED AREA IS PERMANENTLY STABILIZED AND IS NO LONGER SUSCEPTIBLE TO EROSION.



- GENERAL NOTES:
- INLET PROTECTION DEVICES SHALL CONFORM TO WDNR CONSERVATION PRACTICE STANDARD 1060 AND BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WSDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED IF ALLOWED BY ENGINEER.
- TYPE A IS TO BE USED PRIOR TO PAVING AND INSTALLATION OF CURB AND GUTTER, AND TYPES B, C, AND D ARE TO BE USED AFTER PAVING IS PLACED.
- TYPE A SHALL BE USED AROUND INLETS AND UNPAVED AREAS UNTIL PERMANENT STABILIZATION METHODS HAVE BEEN ESTABLISHED.
- TYPE B SHALL BE USED AFTER THE CASTING AND GRATE ARE IN PLACE, ON INLETS WITHOUT A CURB BOX WHEN TYPE D INLET DEVICES CANNOT BE USED.
- TYPE C SHALL BE USED AFTER THE CASTING AND GRATE ARE IN PLACE, ON STREET INLETS WITH CURB HEADS.
- TYPE D SHALL BE USED IN AREAS WHERE OTHER TYPES OF INLET PROTECTION ARE INCOMPATIBLE WITH ROADWAY AND TRAFFIC CONDITIONS (I.E. POSSIBLE SAFETY HAZARD IF PONDING OCCURS), OR WHERE MORE EFFECTIVE INLET FILTERING IS NEEDED.
- TAPER BOTTOM OF BAG TO MAINTAIN 3" OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
- GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.

- INSTALLATION NOTES:
- TYPE B & C:
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
- THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
- TYPE D:
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
- TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
- THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

- MAINTENANCE:
- REMOVE INLET PROTECTION DEVICES ONCE THE CONTRIBUTING DRAINAGE AREA IS STABILIZED WITH APPROPRIATE VEGETATION OR IMPERVIOUS SURFACE.
- INLET PROTECTION SHALL BE, AT A MINIMUM, INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
- FOR TYPE A, B OR C INLET PROTECTION, SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO 1/2 THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING AS DESIGNED.
- FOR TYPE D INLET PROTECTION (INCLUDING D-M AND D-HR), REMOVE SEDIMENT WHEN SEDIMENT ACCUMULATES TO WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLES, OR WHEN STANDING WATER REMAINS WITHIN 8" OF THE BOTTOM OF THE OVERFLOW HOLES 24 HOURS AFTER A RUNOFF EVENT. HOLES IN THE TYPE FF FABRIC MAY BE REPAIRED BY STITCHING IF LESS THAN 2" IN LENGTH, BUT THE FABRIC SHOULD BE REPLACED IF THE HOLES ARE GREATER THAN 2" IN LENGTH IN THE TYPE FF FABRIC OR IF THERE ARE ANY HOLES IN THE TYPE HR FABRIC. THE FILTER MUST ALSO BE REPLACED IF THE FLAP POCKETS SUSTAIN DAMAGE THAT COMPROMISES FILTER INTEGRITY OR THE ABILITY TO PERFORM MAINTENANCE.
- REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLET AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.



TRACKOUT CONTROL DETAIL

SHALL BE ACCORDANCE WITH WDNR TECHNICAL STANDARD 1057

STORM DRAIN INLET PROTECTION DETAIL



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SEH Project
Checked By
Drawn By

161454
BH
RMM

Project Status
Issue Date

PLAN COMMISSION
REVIEW

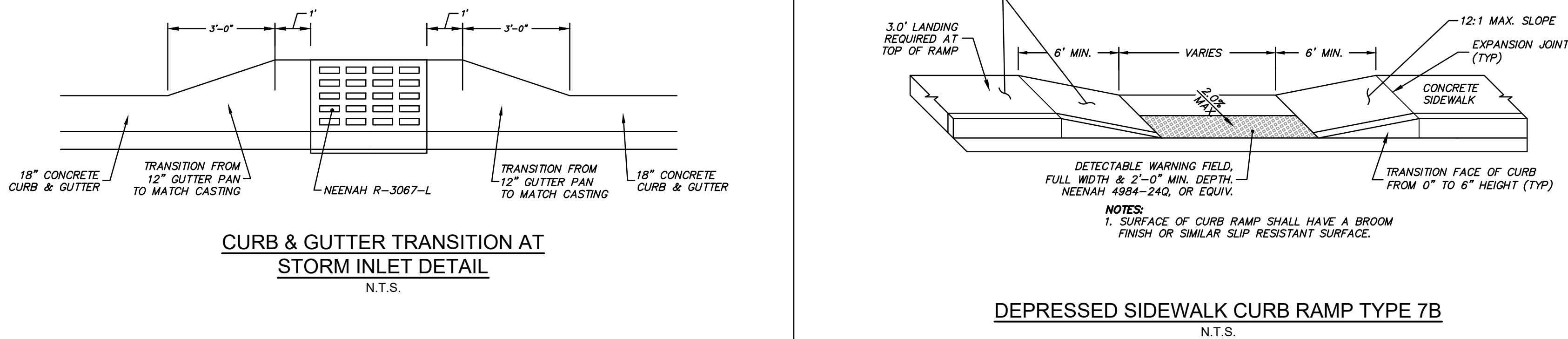
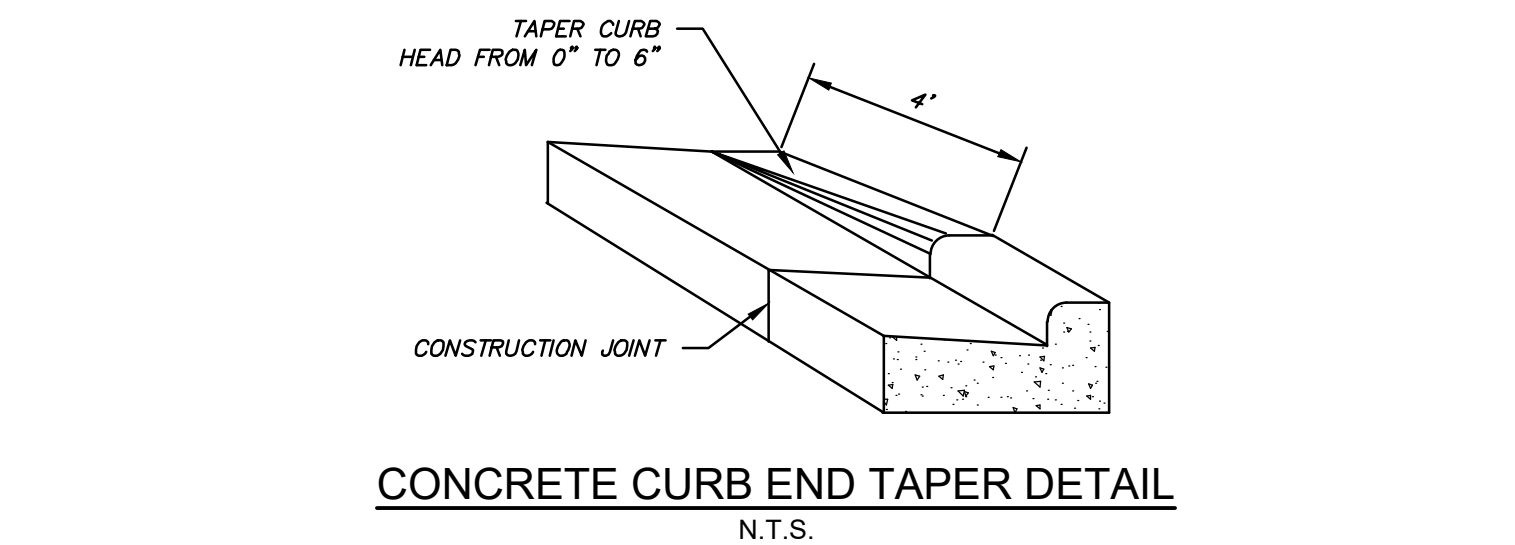
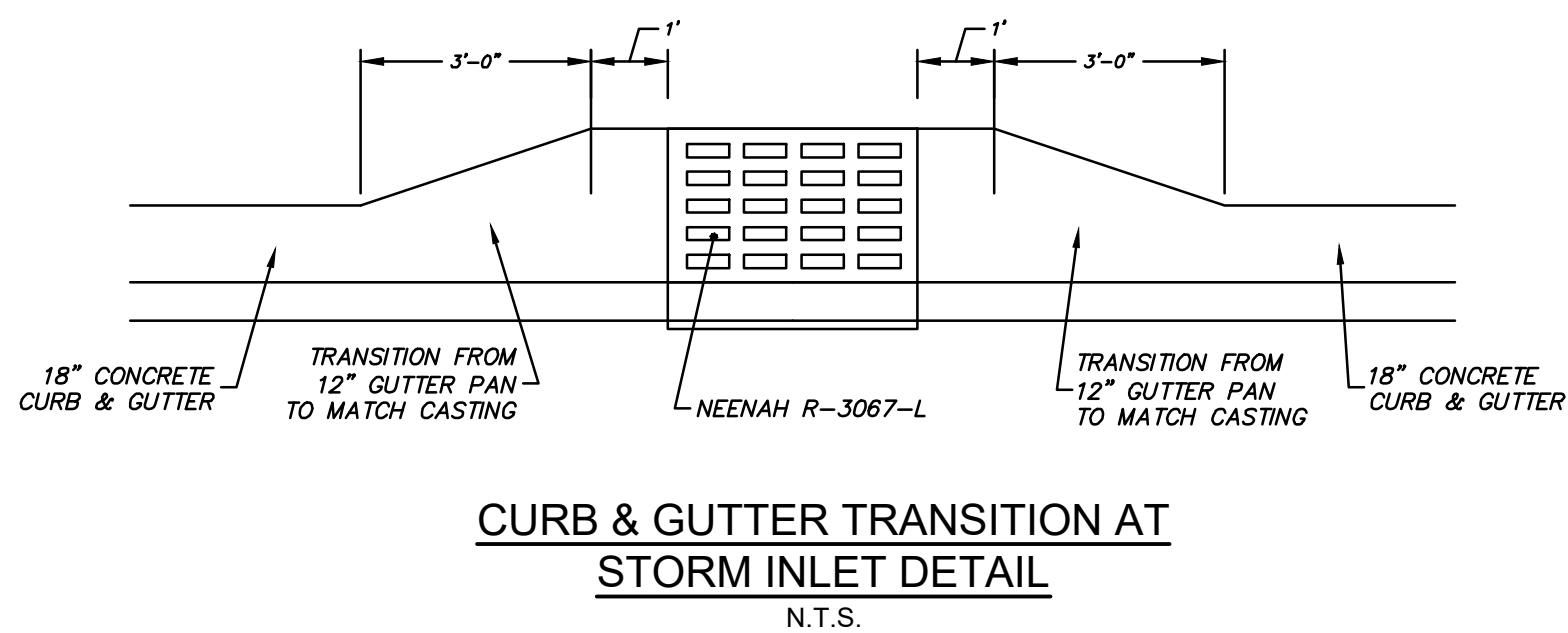
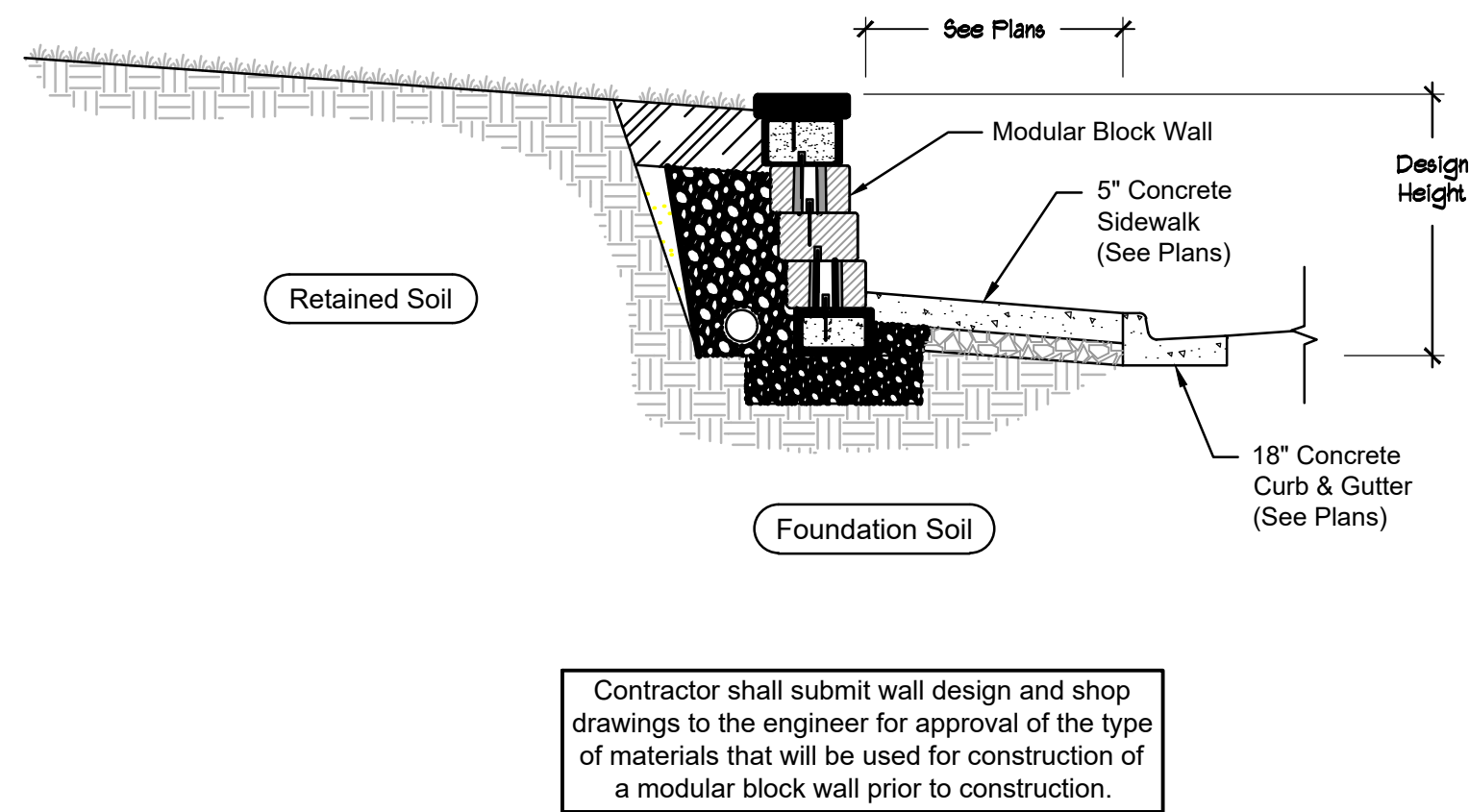
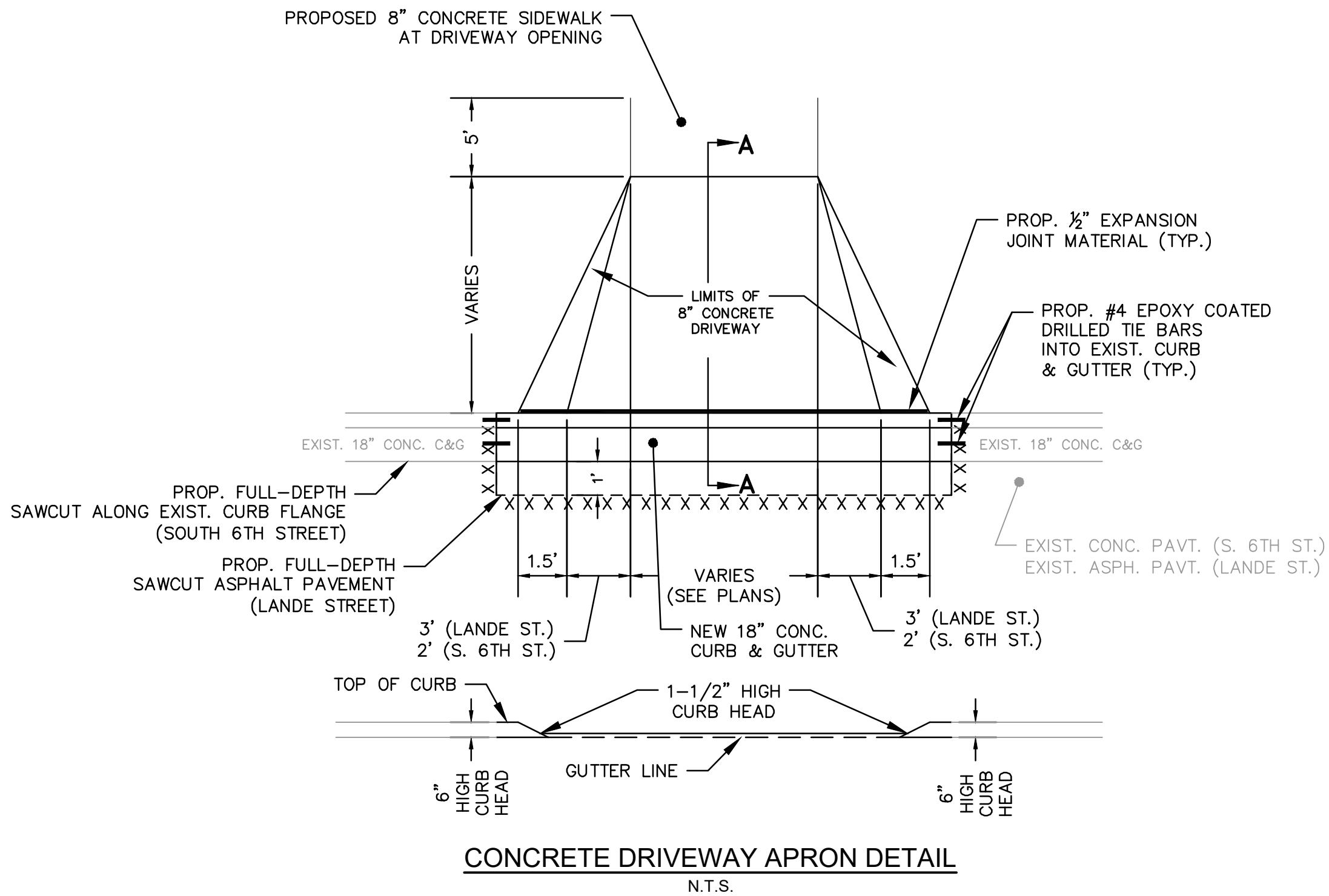
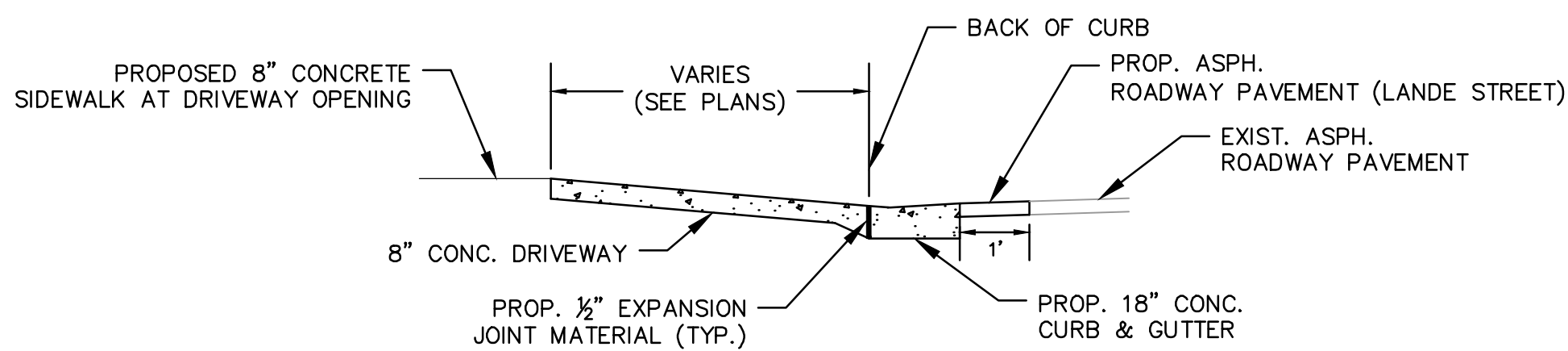
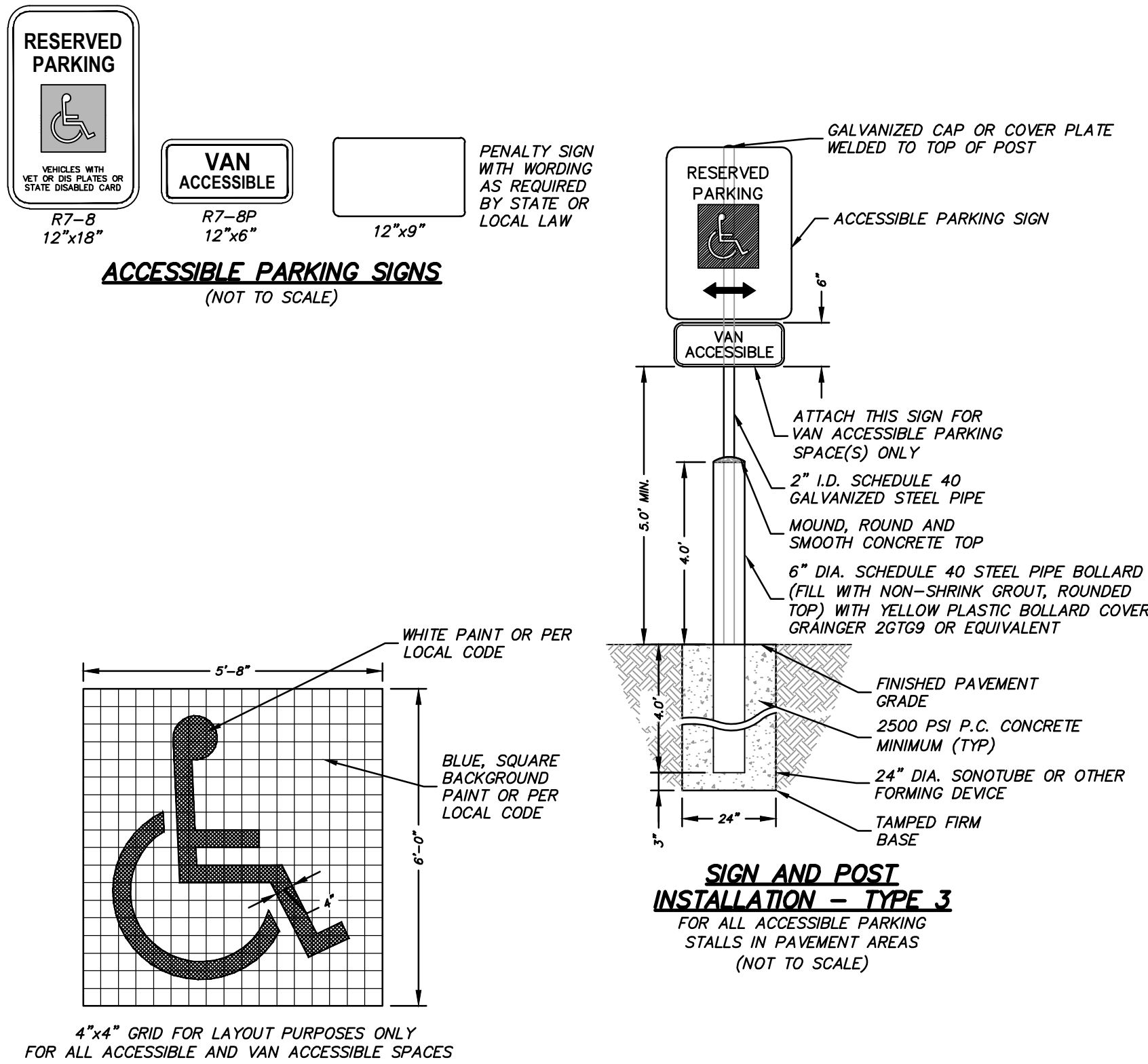
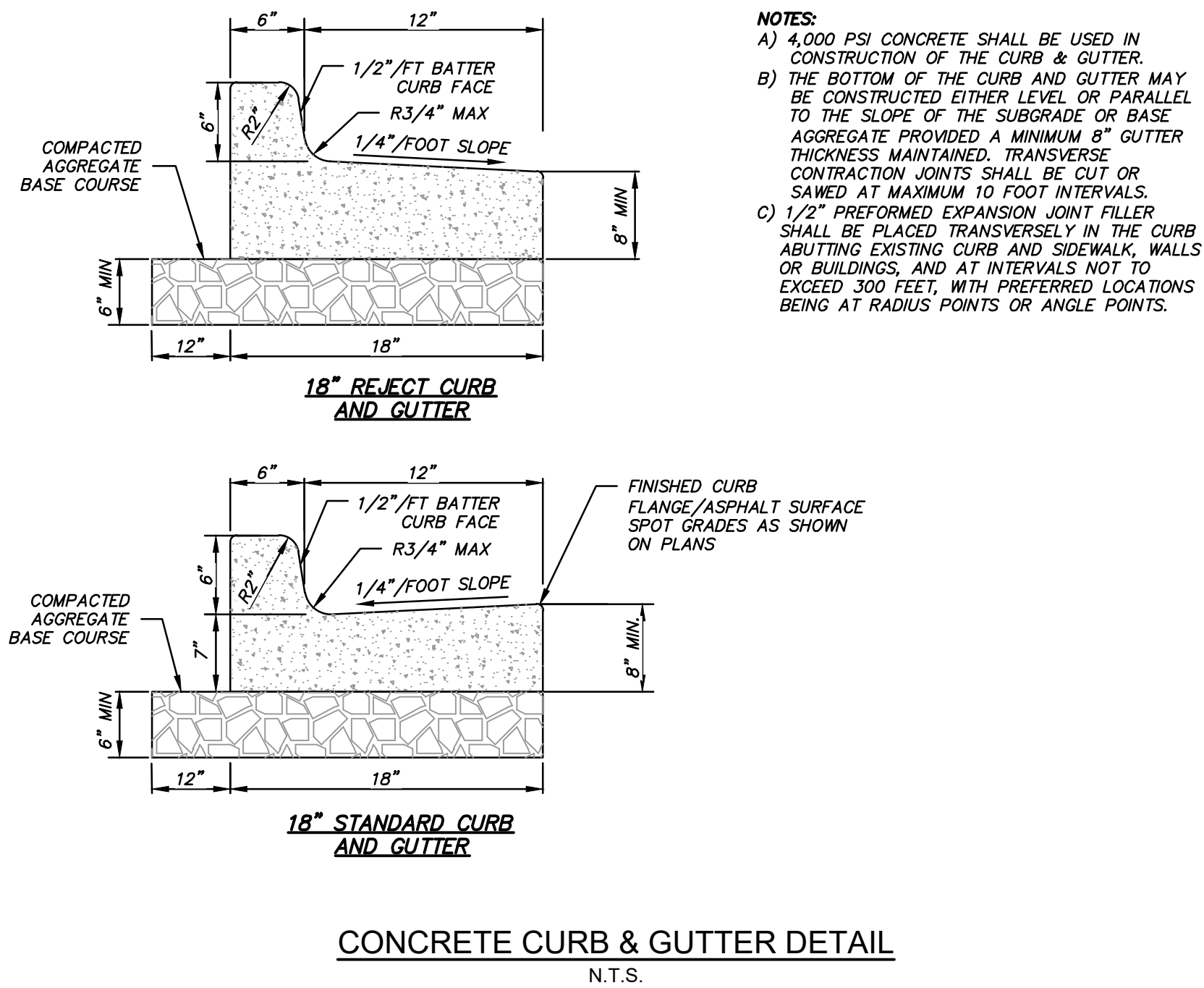
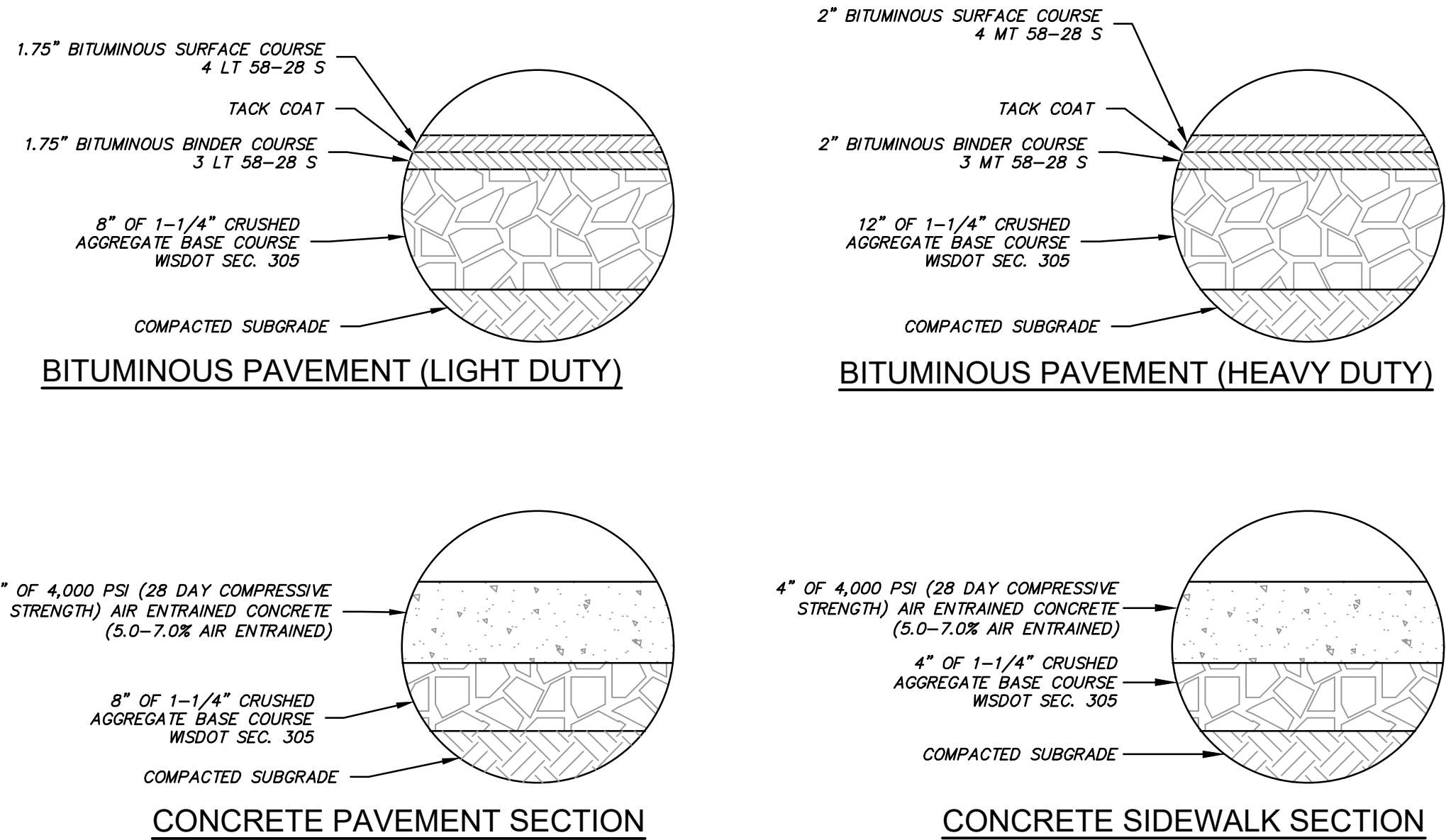
4-8-22

REVISION SCHEDULE

REV. # DESCRIPTION DATE

SITE DETAILS

C500





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Municipal Services Center Renovation

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Drawn By	RMM

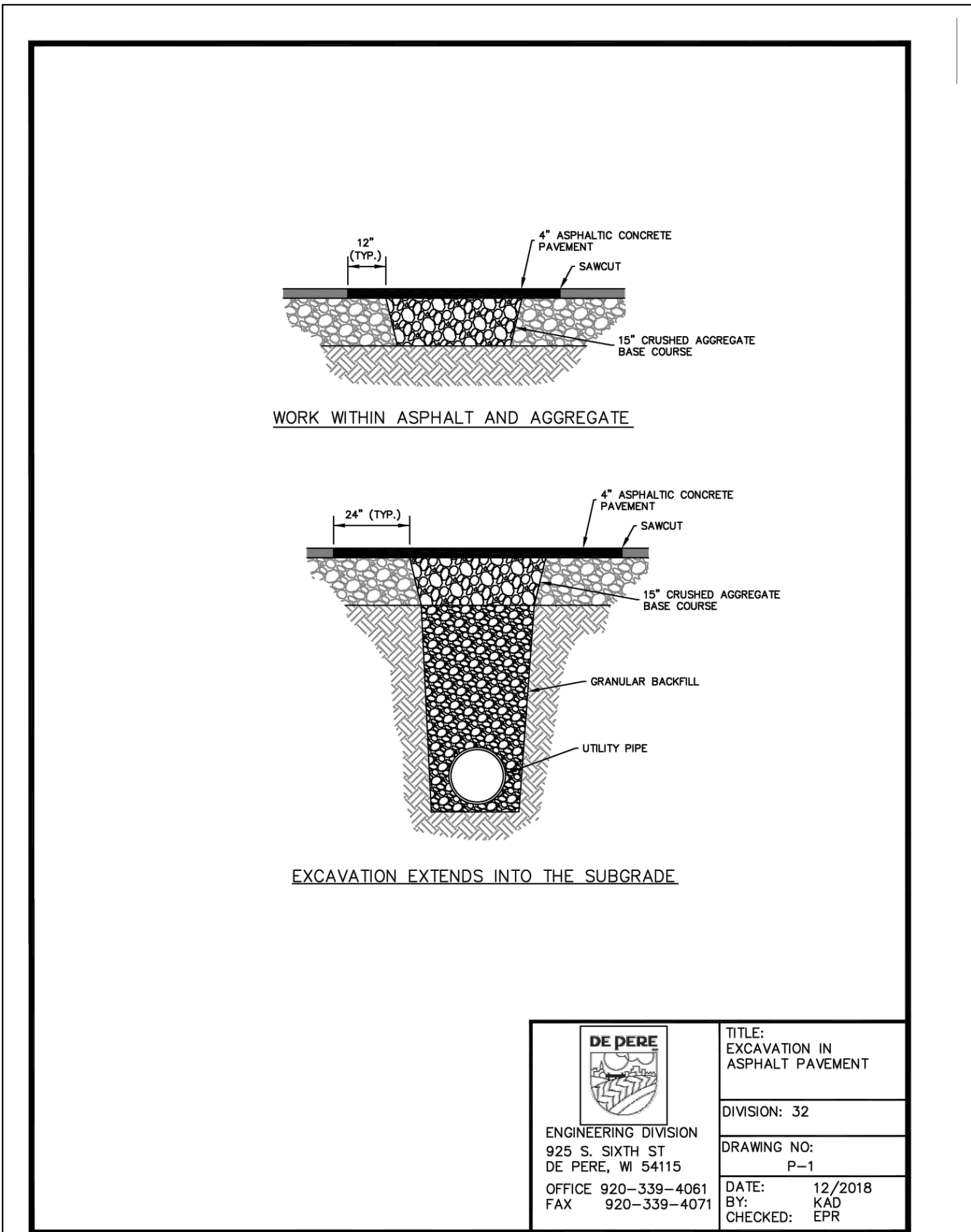
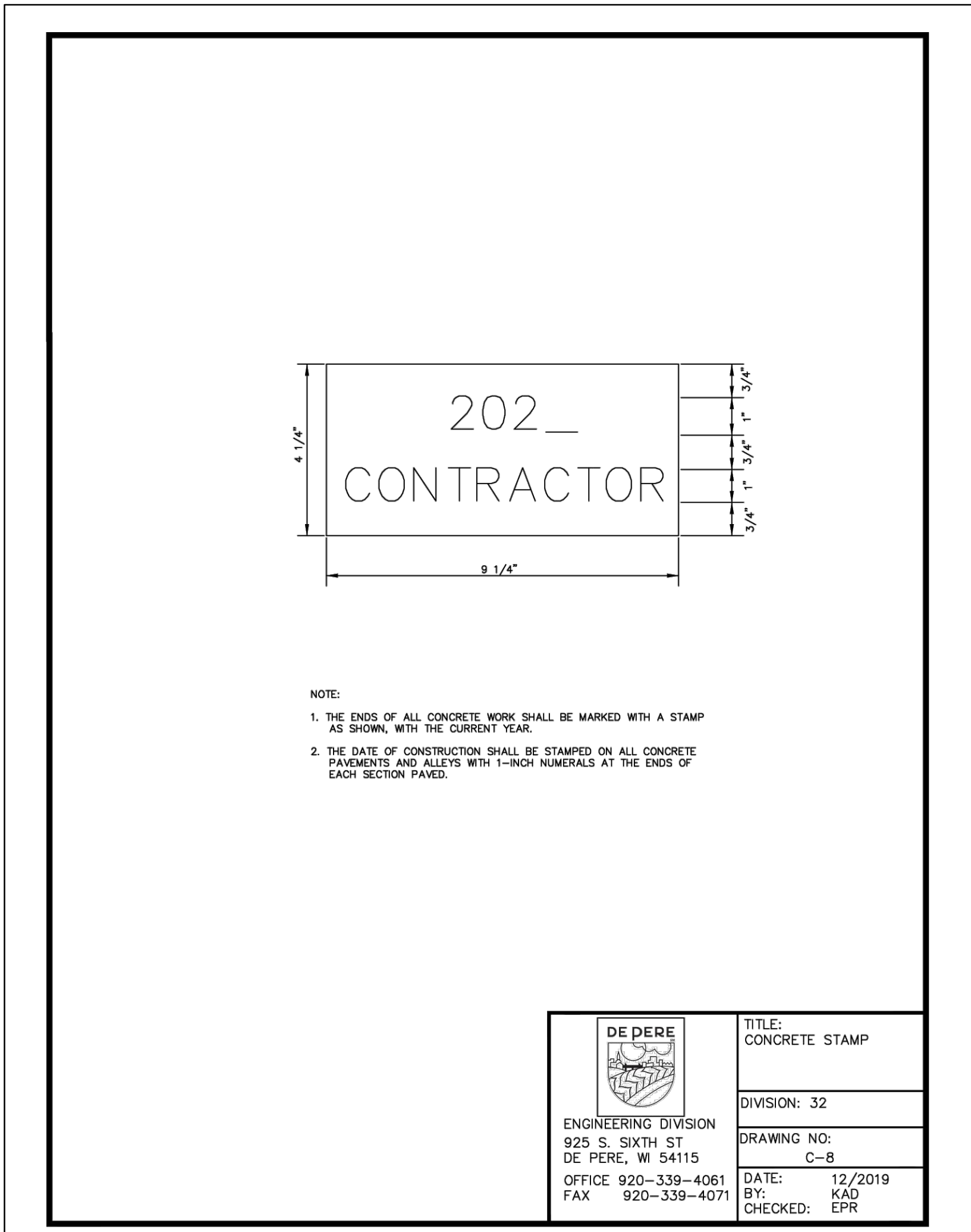
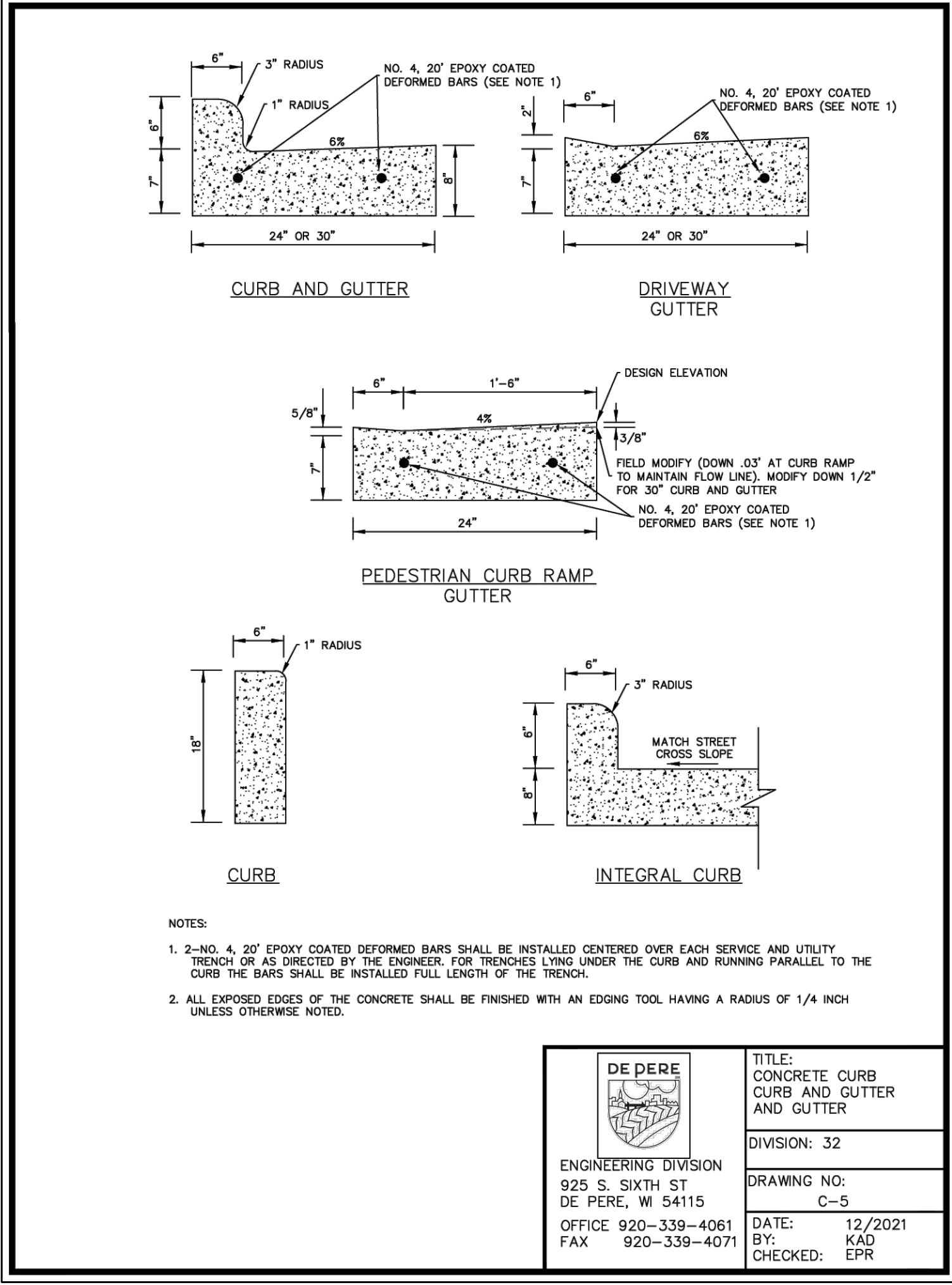
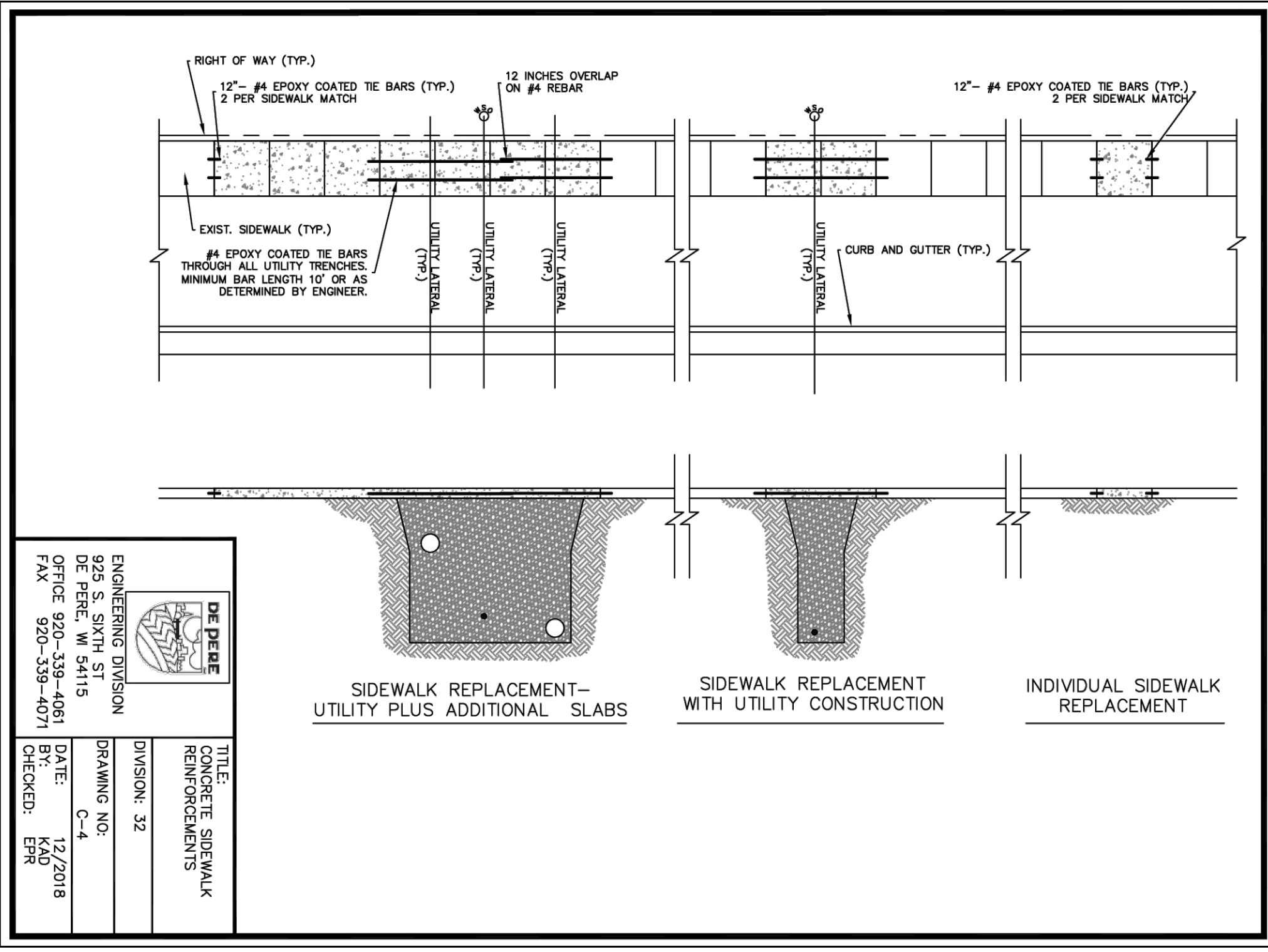
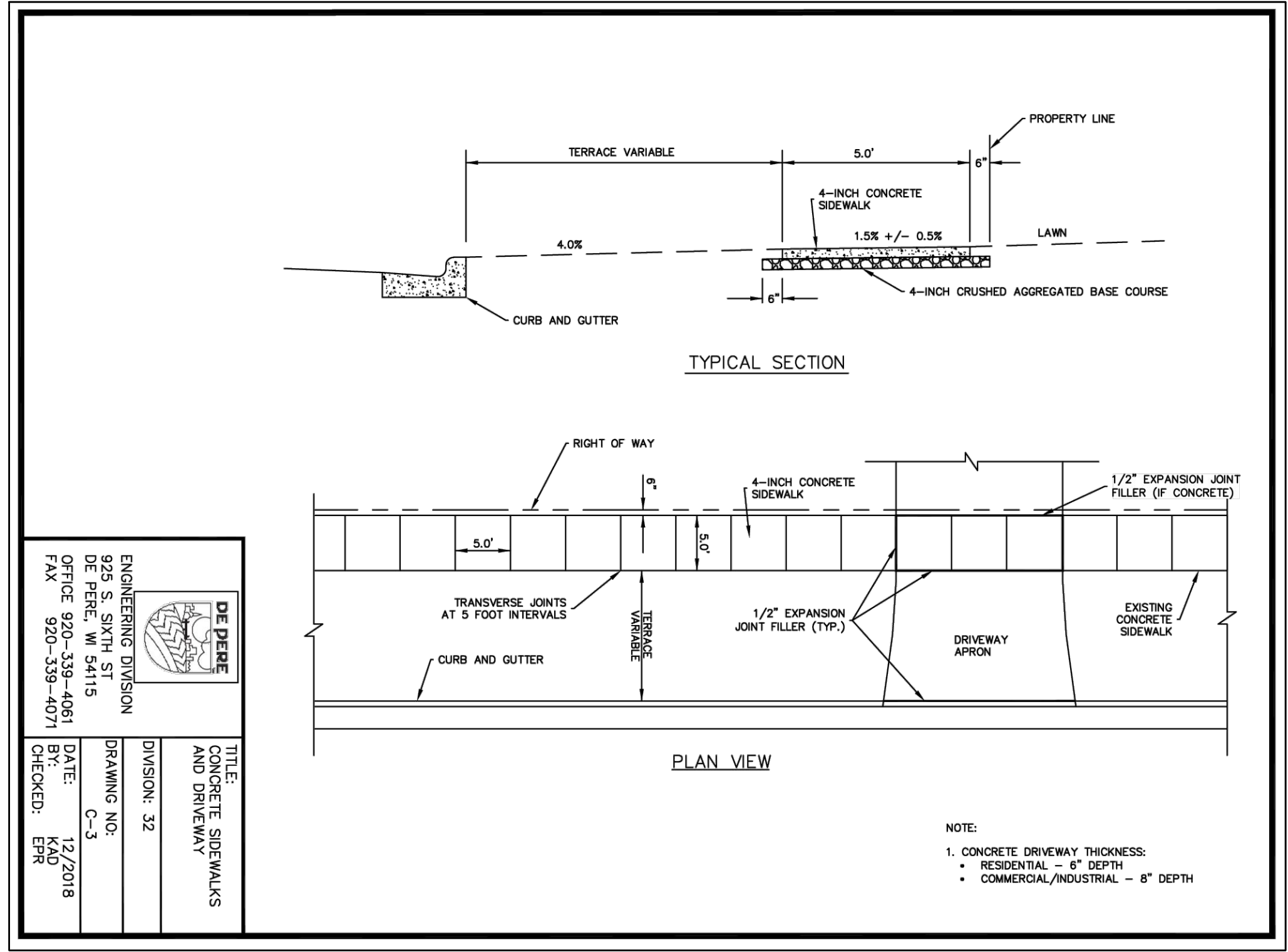
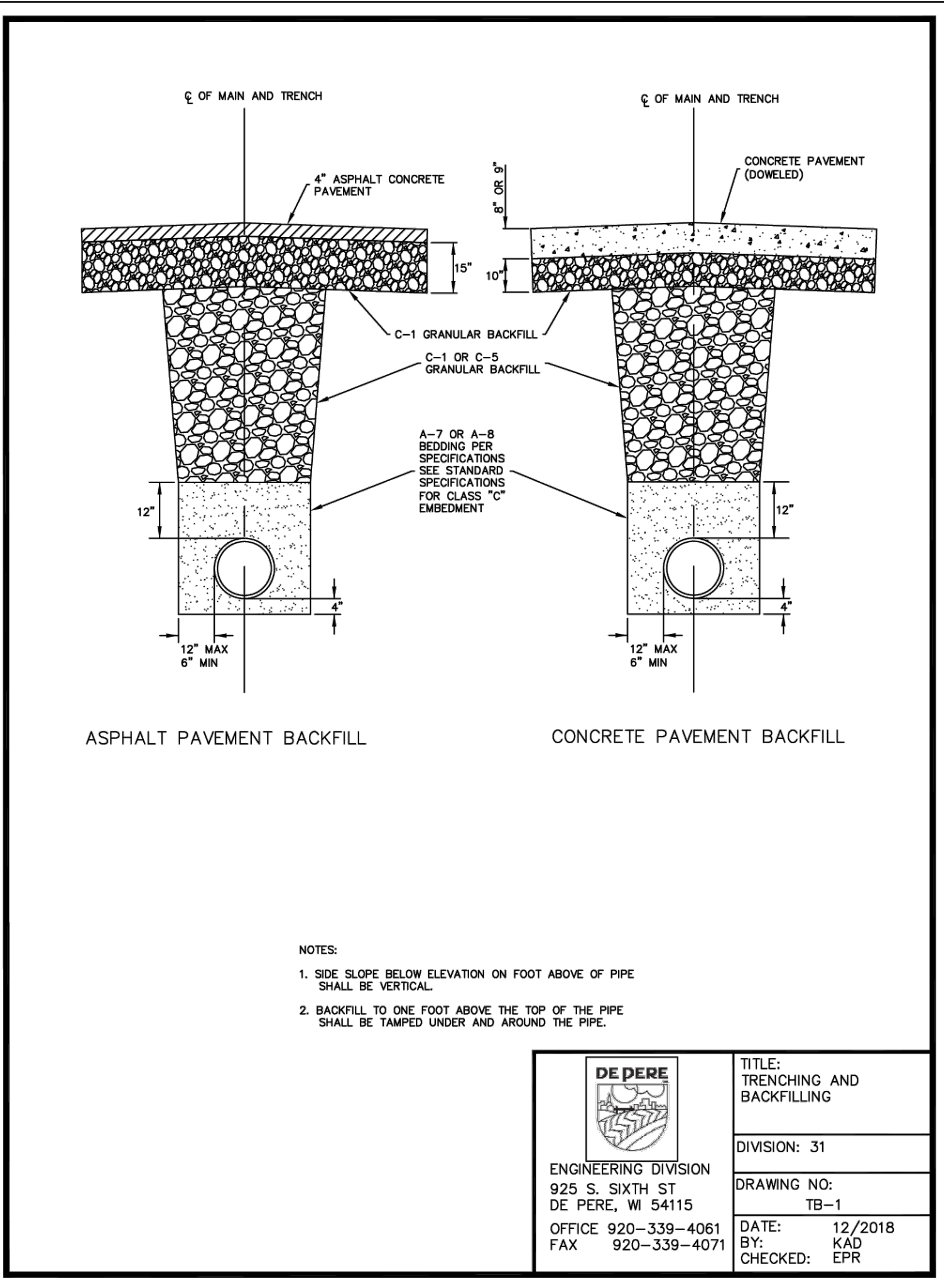
Project Status	Issue Date
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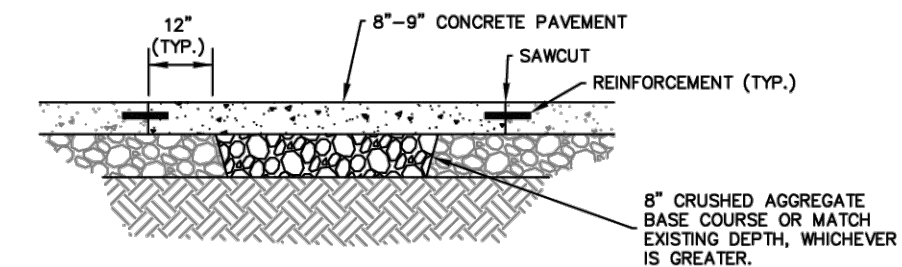
PLAN COMMISSION 4-8-22
REVIEW

REVISION SCHEDULE		
REV. #	DESCRIPTION	DATE

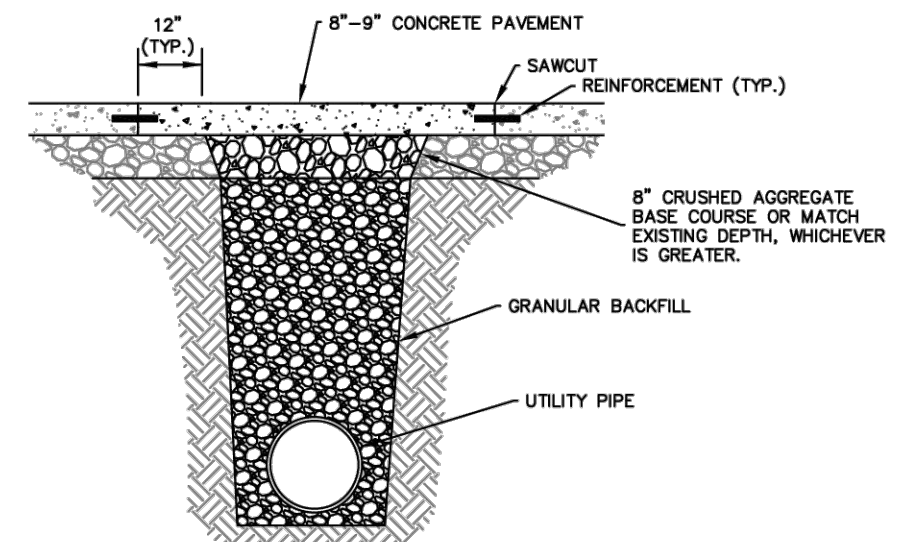
SITE DETAILS

C502





WORK WITHIN CONCRETE AND AGGREGATE



EXCAVATION EXTENDS INTO THE SUBGRADE

- NOTE:
1. INSTALL REINFORCEMENT PER SPECIFICATIONS.



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925 S. SIXTH ST
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FAX 920-339-4071

TITLE:
EXCAVATION IN
CONCRETE PAVEMENT

DIVISION: 32

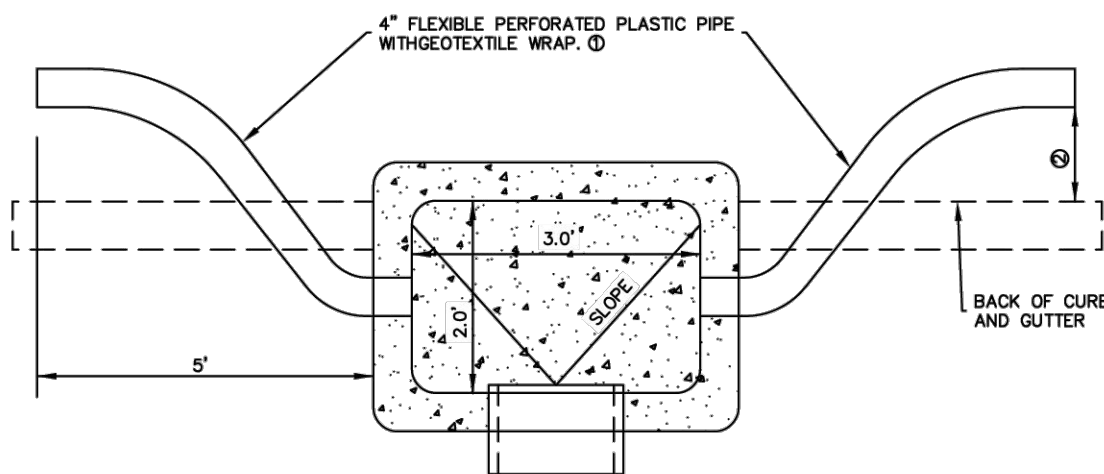
DRAWING NO:

P-3

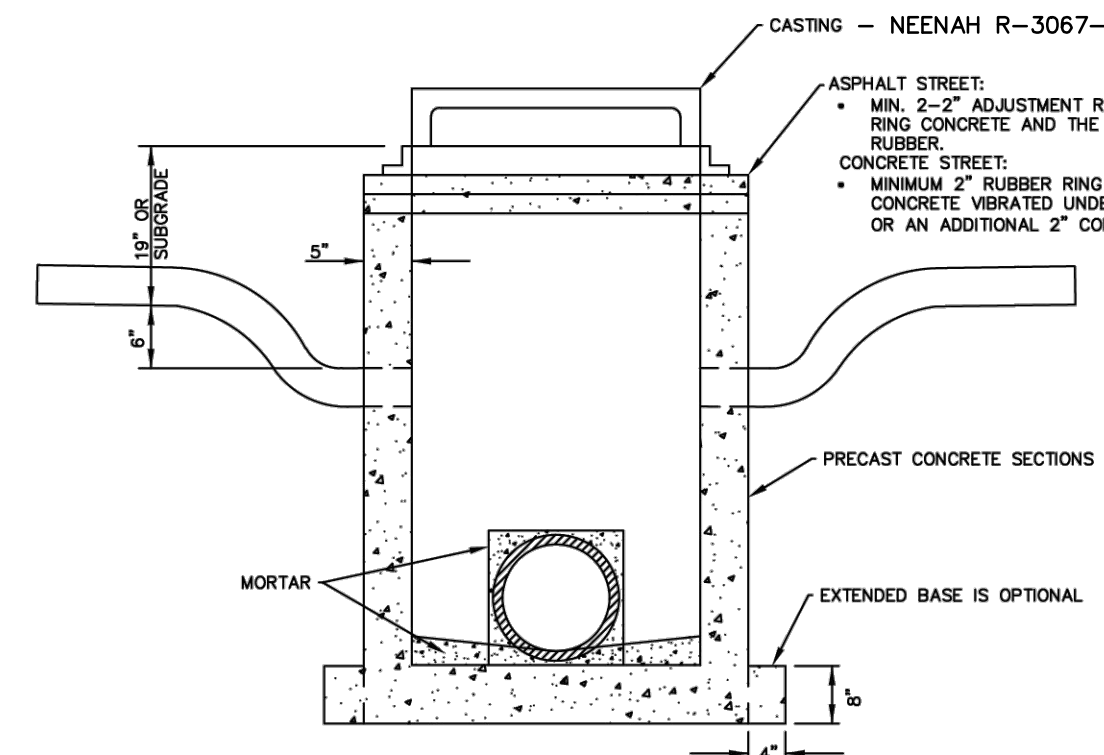
DATE: 12/2019

BY: KAD

CHECKED: EPR



- ① IF THERE IS LESS THEN 5' OF CURB AND GUTTER BEING REPLACED, EXTEND TO THE LIMITS OF THE CURB AND GUTTER REPLACEMENT.
- ② EDGE DRAIN TO BE LOCATED AT EDGE OF CRUSHED AGGREGATE BASE COURSE.



- NOTES:
1. THE MINIMUM DEPTH OF TYPE B INLETS FROM GRATE TO BOTTOM OF BASE SHALL BE 4'-8".
 2. PROVIDE INLET BARRIERS FOR NEW CONSTRUCTION.
 3. TYPE B INLETS SHALL MEET ALL SPECIFICATIONS OF ASTM C478.
 4. 1", 2" OR TAPERED RUBBER RINGS ARE ACCEPTABLE TO PROVIDE FOR FIELD CONDITIONS.



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TITLE:
TYPE B INLET

DIVISION: 33

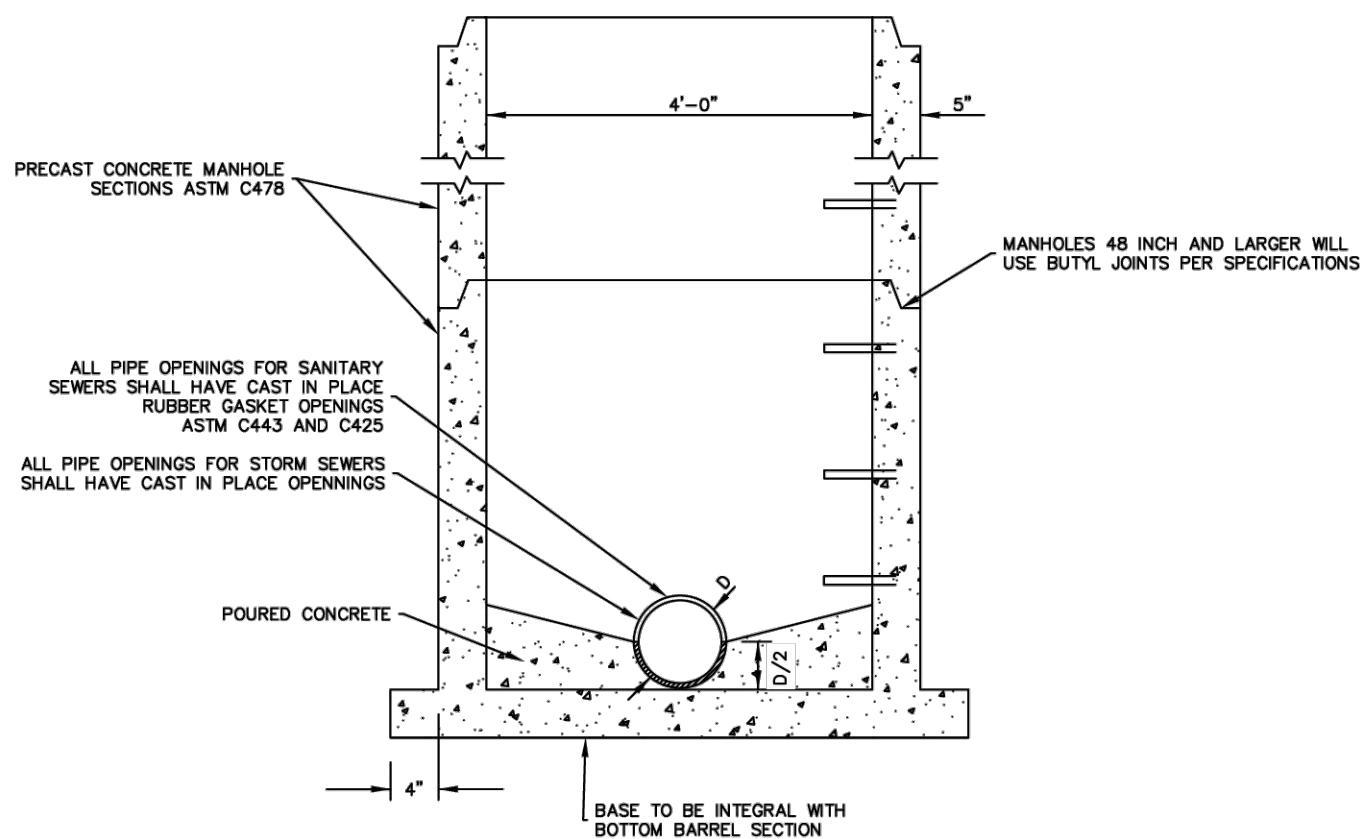
DRAWING NO:

S-6

DATE: 12/2018

BY: KAD

CHECKED: EPR



- ALL PIPE OPENINGS FOR SANITARY SEWERS SHALL HAVE CAST IN PLACE RUBBER GASKET OPENINGS ASTM C443 AND C425
- ALL PIPE OPENINGS FOR STORM SEWERS SHALL HAVE CAST IN PLACE OPENINGS

BASE TO BE INTEGRAL WITH BOTTOM BARREL SECTION



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OFFICE 920-339-4061
FAX 920-339-4071

TITLE:
PRECAST CONCRETE
MANHOLE

DIVISION: 33

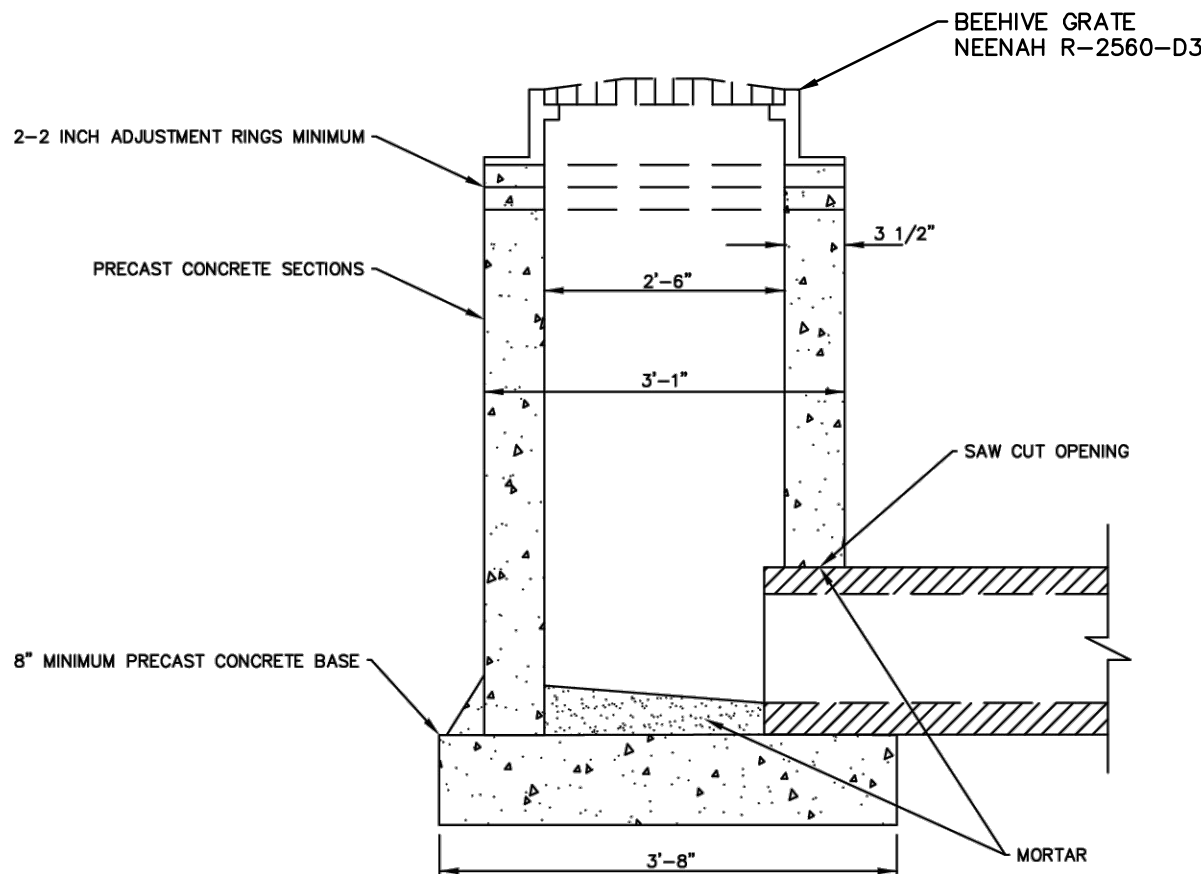
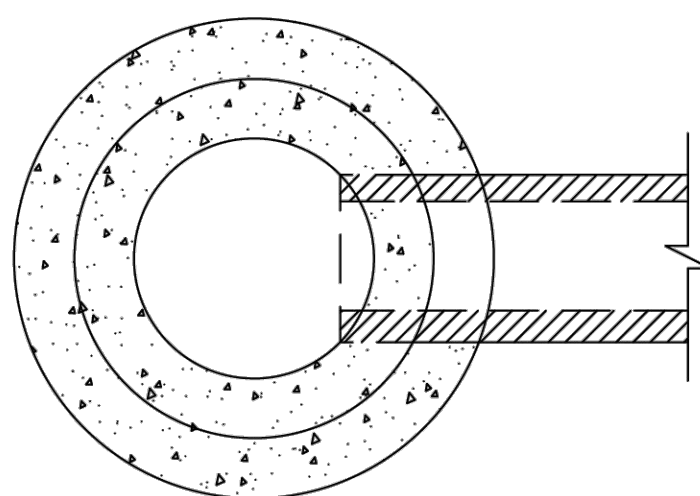
DRAWING NO:

S-1

DATE: 12/2018

BY: KAD

CHECKED: EPR



- NOTE:
1. THE MINIMUM DEPTH OF FIELD INLETS FROM GRATE TO BOTTOM OF BASE SHALL BE 4'-8".



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TITLE:
TYPE A FIELD INLET

DIVISION: 33

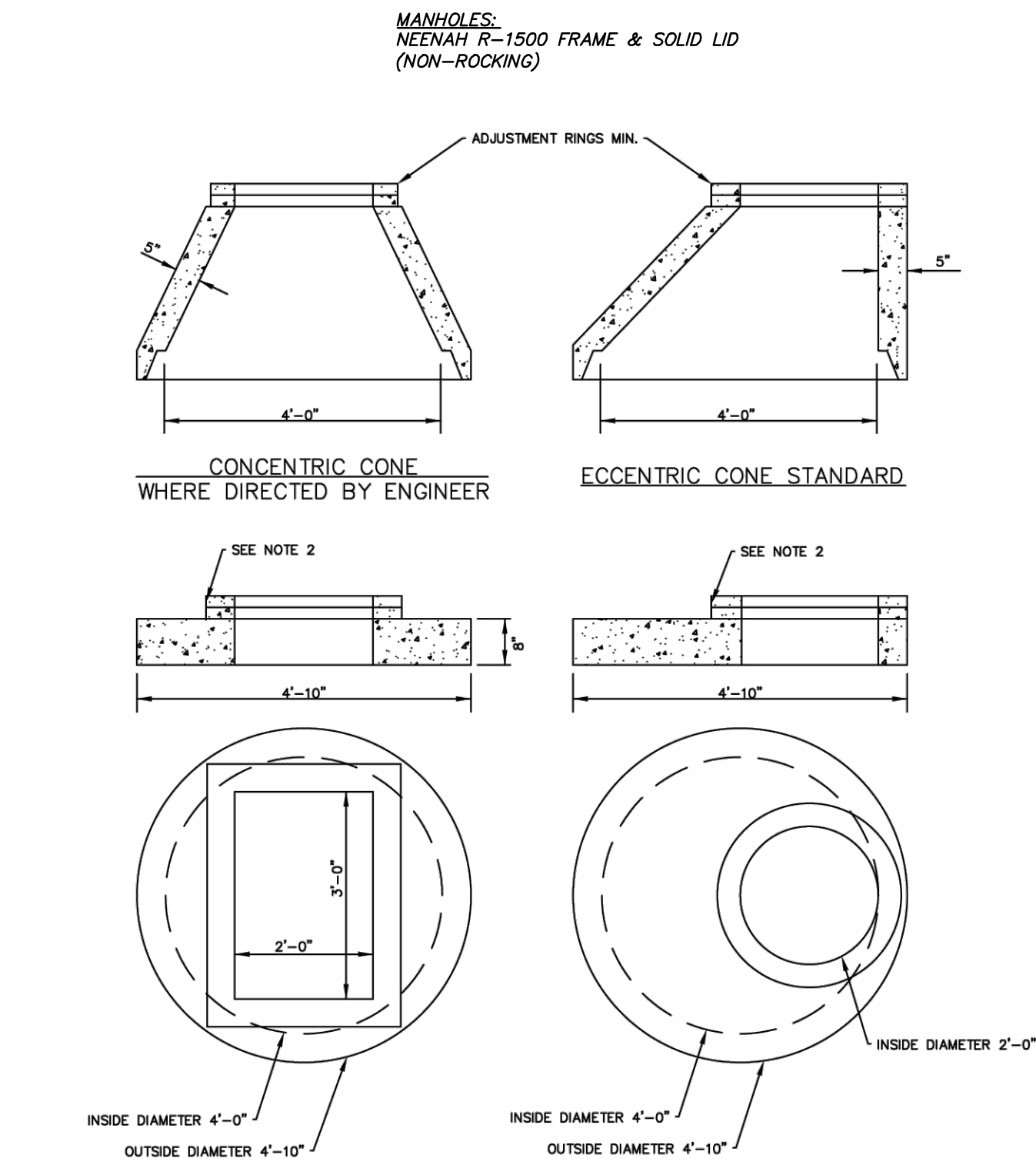
DRAWING NO:

FI-1

DATE: 12/2018

BY: KAD

CHECKED: EPR



- NOTE:
1. THE TOP ADJUSTING RING (MINIMUM OF 2" AND MAXIMUM OF 3") ON ALL MANHOLES AND INLETS THAT FALL WITHIN THE PAVEMENT SHALL BE RUBBER RISER RINGS.
 2. ASPHALT STREET:
 - MIN. 2"-2" ADJUSTMENT RINGS, BOTTOM RING CONCRETE AND THE TOP RING RUBBER.CONCRETE STREET:
 - MINIMUM 2" RUBBER RING ON TOP WITH CONCRETE VIBRATED UNDER RUBBER RING OR AN ADDITIONAL 2" CONCRETE RING.



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OFFICE 920-339-4061
FAX 920-339-4071

TITLE:
PRECAST CONCRETE
CONES AND COVERS
ASTM C478

DIVISION: 33

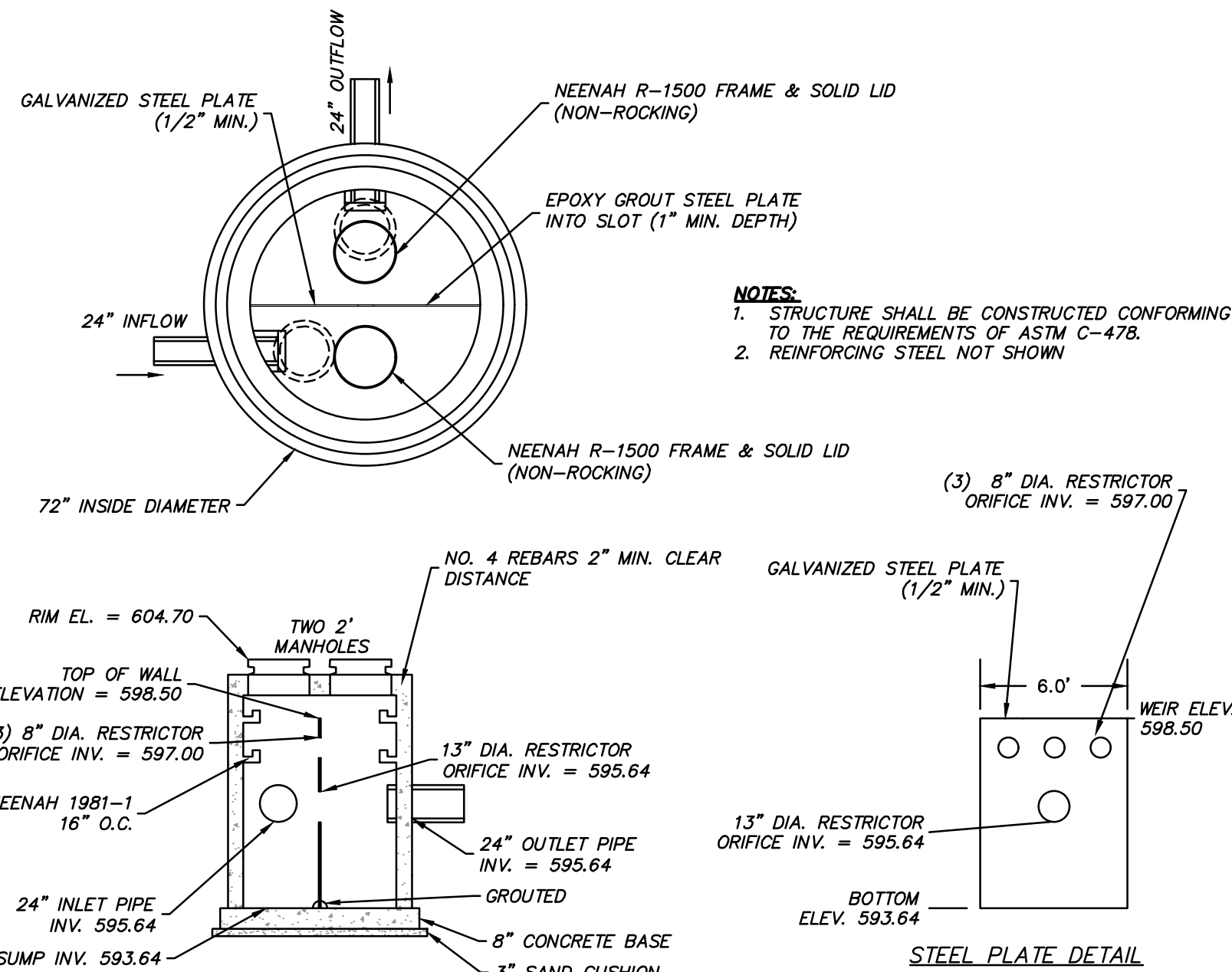
DRAWING NO:

S-3

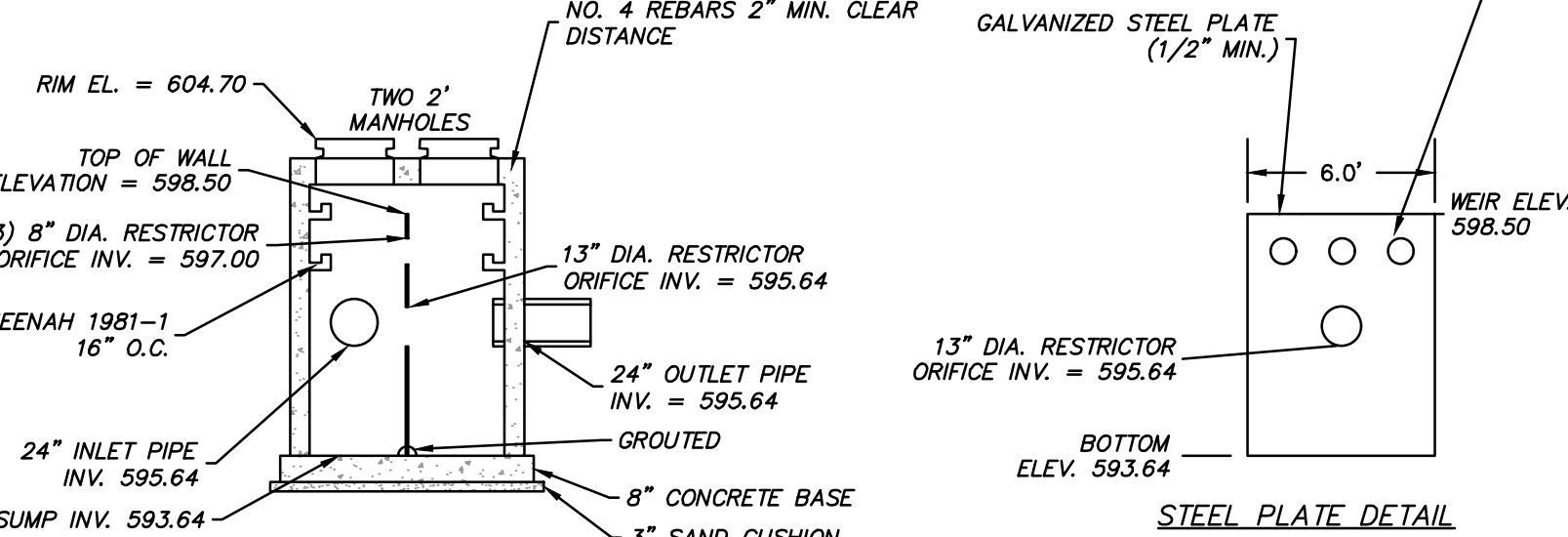
DATE: 12/2018

BY: KAD

CHECKED: EPR



- NOTES:
1. STRUCTURE SHALL BE CONSTRUCTED CONFORMING TO THE REQUIREMENTS OF ASTM C-478.
 2. REINFORCING STEEL NOT SHOWN



OUTLET CONTROL STRUCTURE DETAIL

N.T.S.



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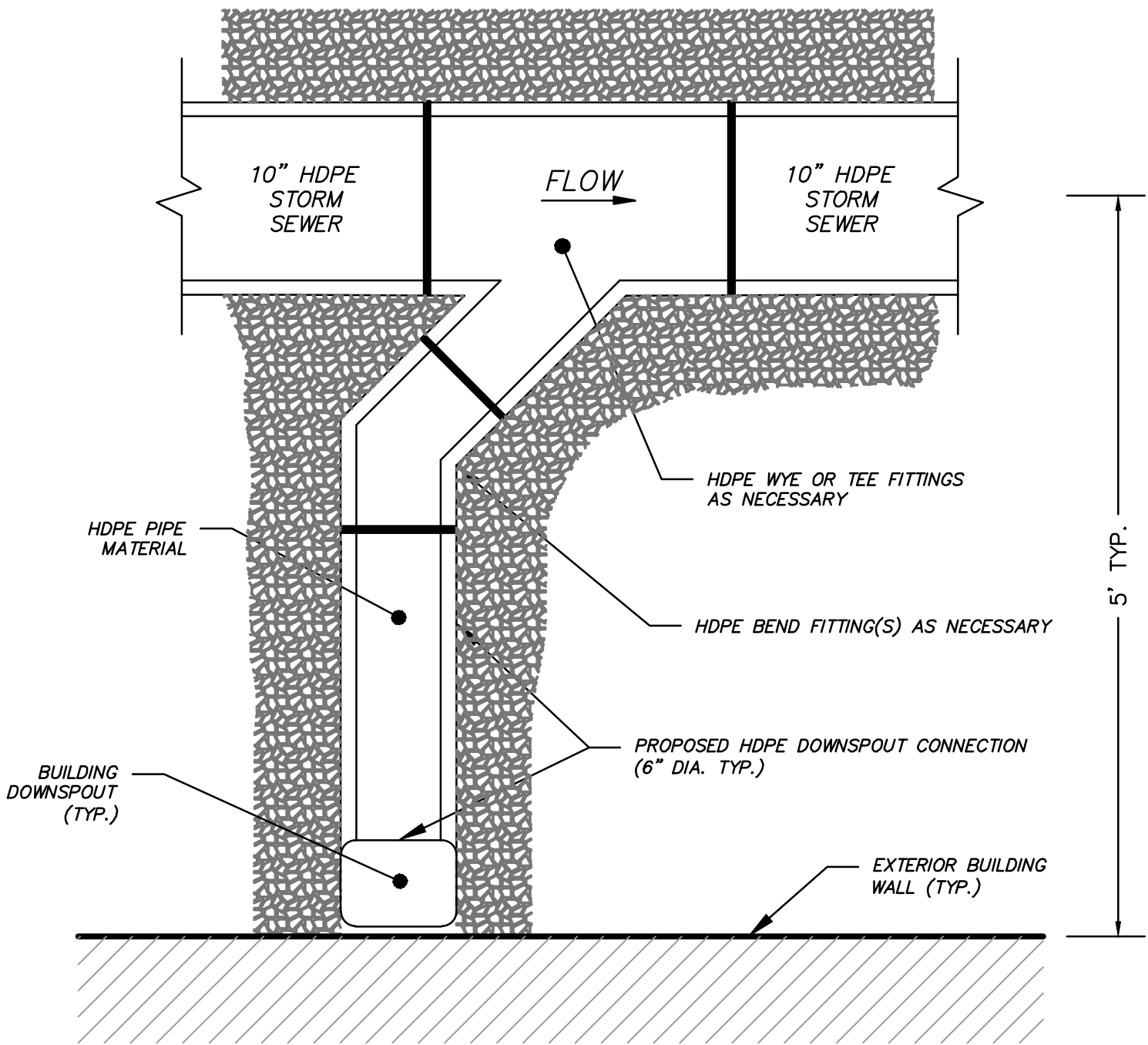
SEH Project 161454
Checked By BH
Drawn By YT

Project Status Issue Date
60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

SITE DETAILS

C503

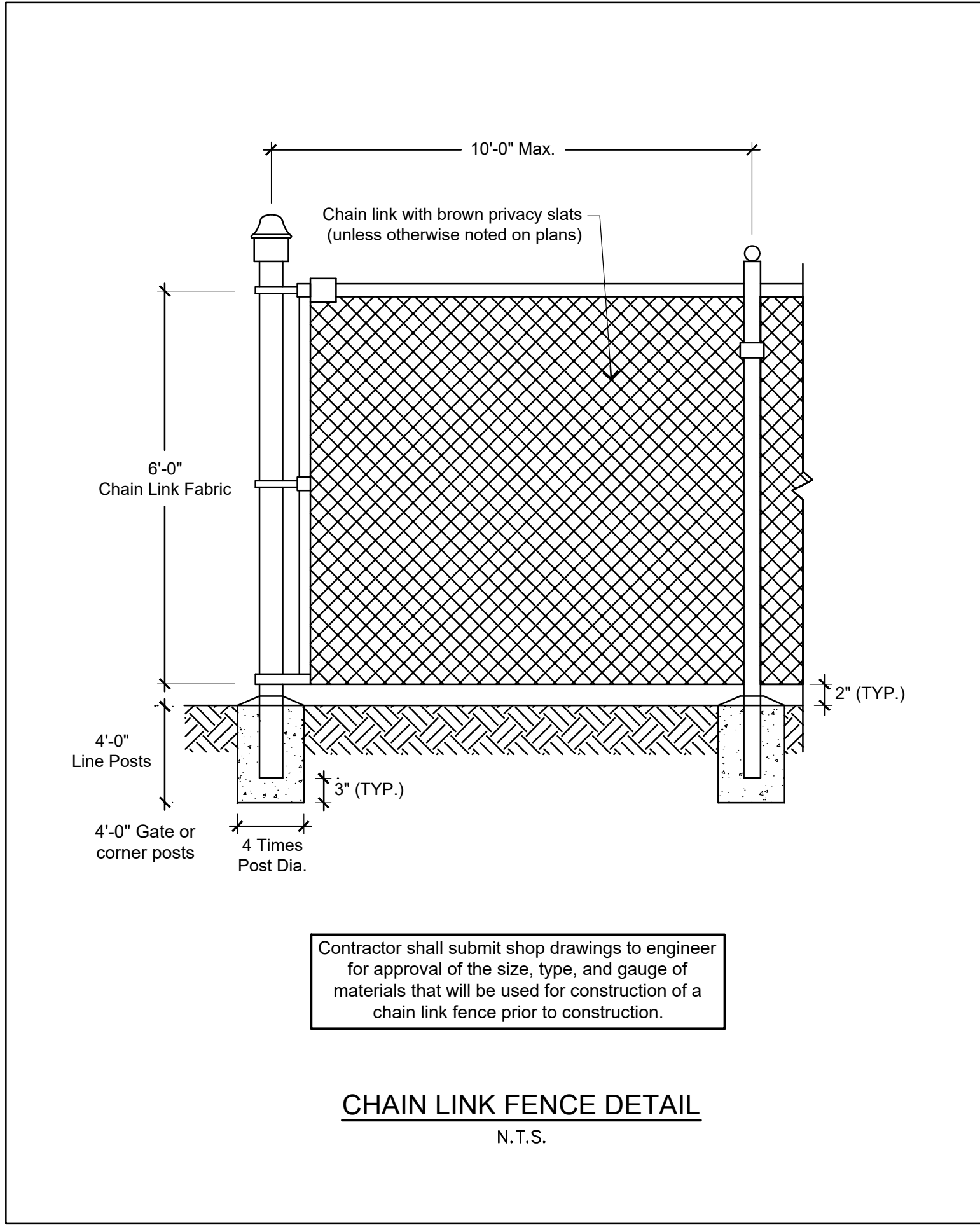
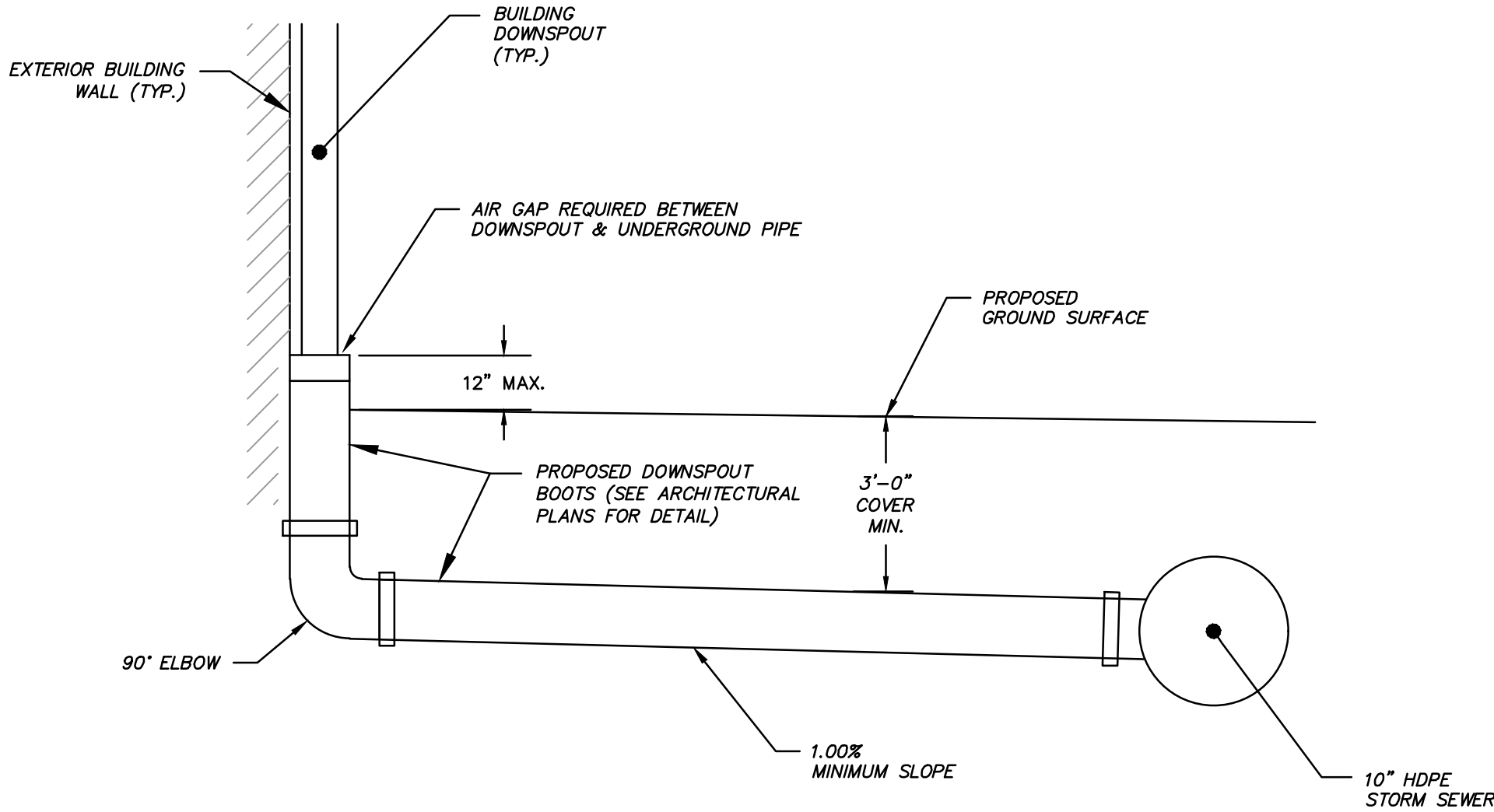


NOTES

1. WATER TIGHT CONNECTIONS SHALL BE MAINTAINED WITH ALL FITTINGS AND PIPE CONNECTIONS.

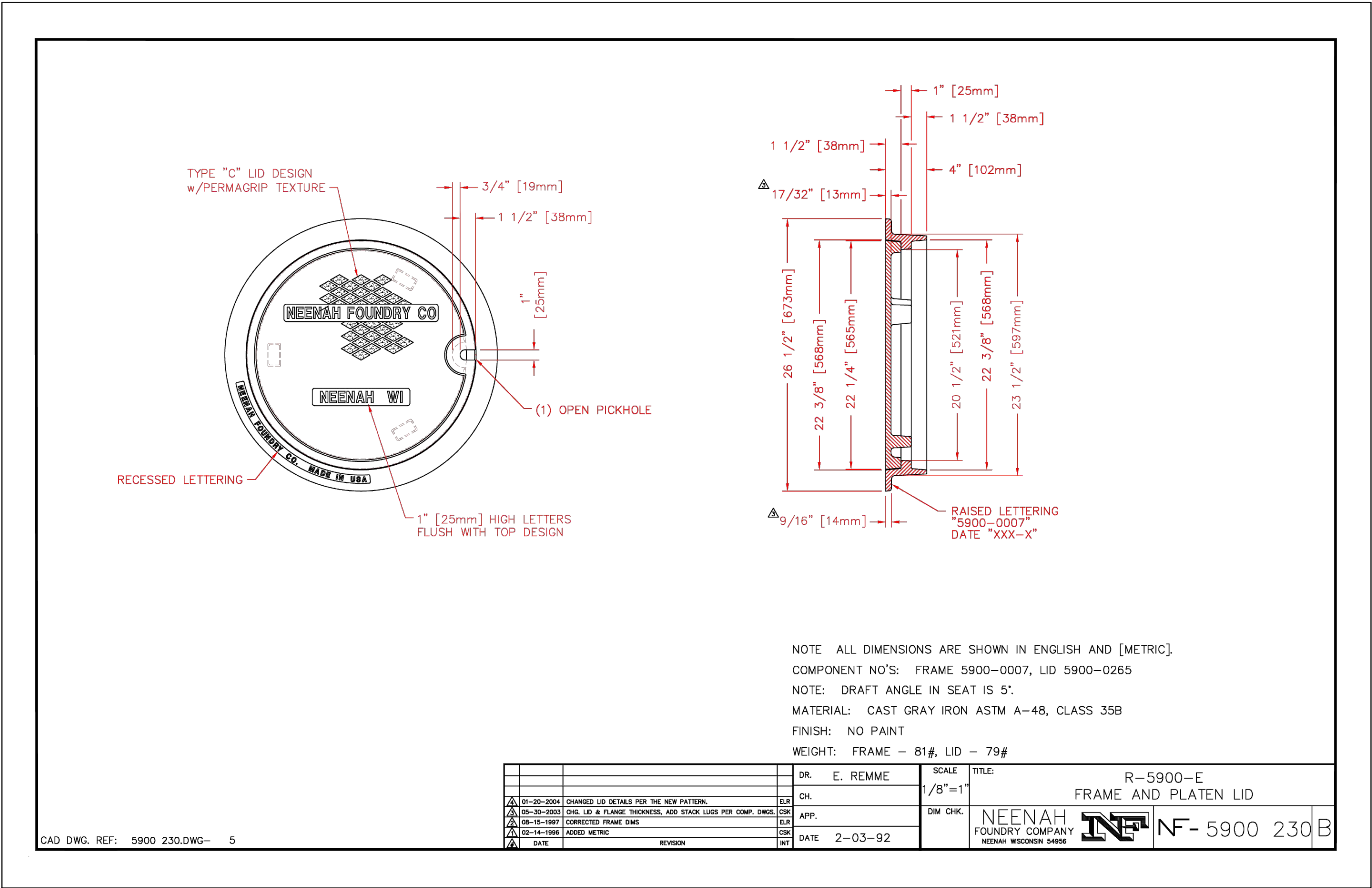
DOWNSPOUT CONNECTION DETAIL

N.T.S.



CHAIN LINK FENCE DETAIL

N.T.S.



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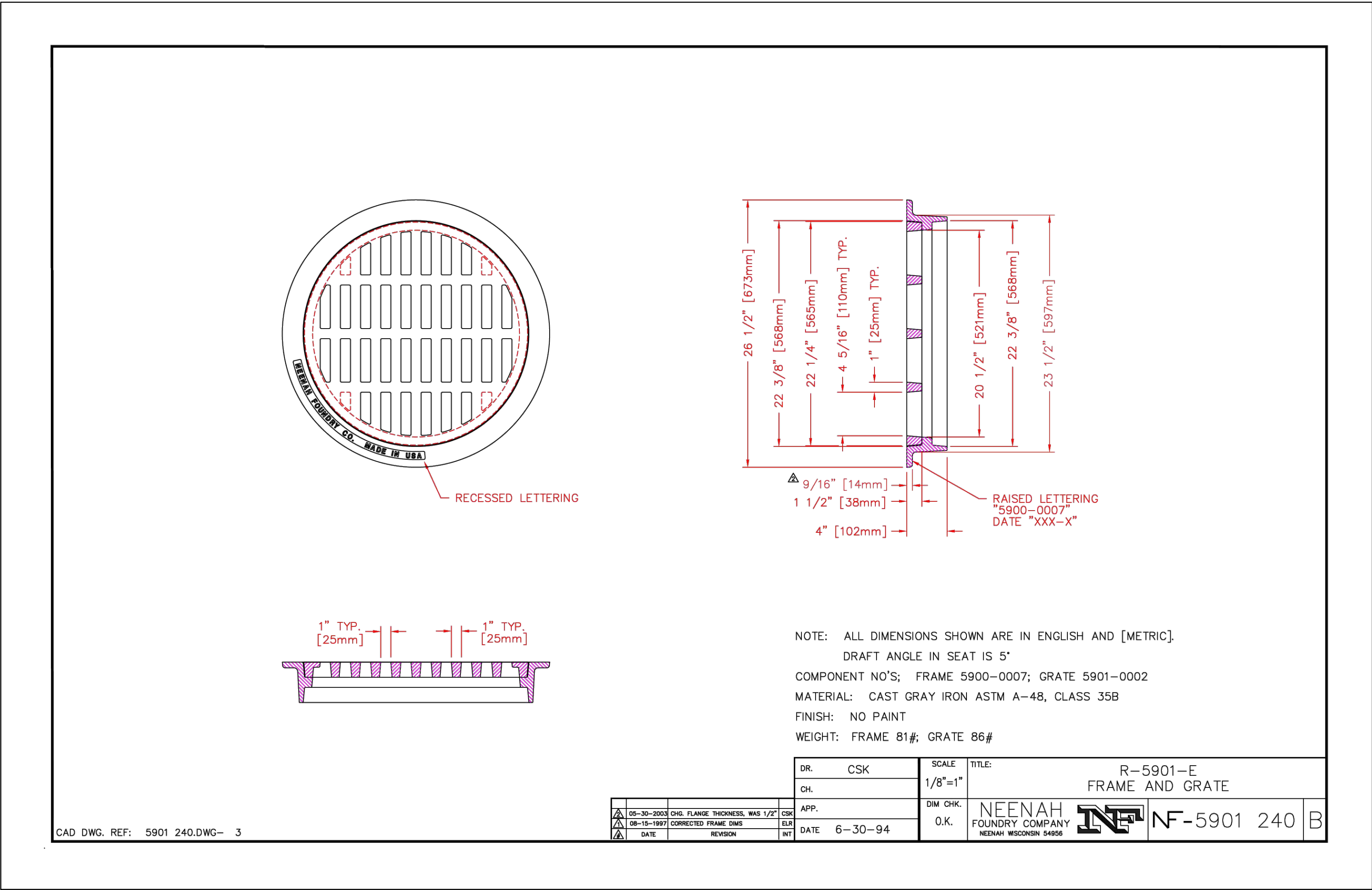
Project Status Issue Date
60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

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C504

n:\2210208\Draw\2025 Draw\Plan Set\2210208-DETAILS01.dwg, C505 SITE DETAILS, 11/12/2025 9:45:59 AM, v_1





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Issue Date
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C505

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Project Status	Issue Date
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C506

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Project Status	Issue Date
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REVISION SCHEDULE

REV.#	DESCRIPTION	DATE
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SITE DETAILS

C507

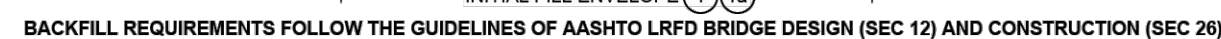


NOTE: IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.



48"Ø to 90"Ø FITTING REINFORCEMENT
MAY BE REQUIRED BASED ON HEIGHT O
COVER AND LIVE LOAD CONDITION

TYPICAL MANWAY DETAIL
NOT TO SCALE

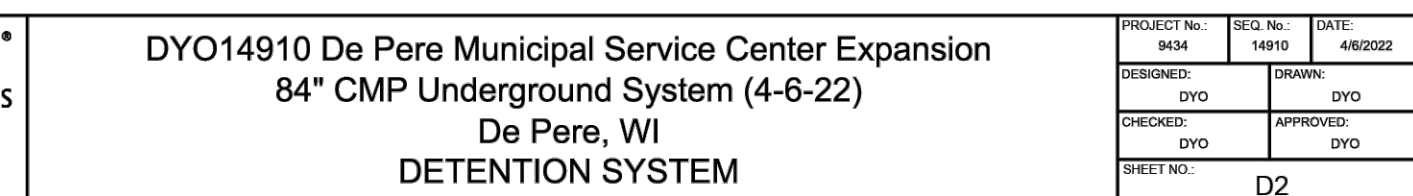


- 1 MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE.
THE MINIMUM TRENCH WIDTH (12.6.6.1):
PIPE $\leq 12"$: D + 16"
PIPE $> 12"$: 1.5D + 12"
- 1a MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ELEVATION (12.6.6.2):
PIPE $\leq 24"$: 3.0D
PIPE 24" - 144": D + 40"
PIPE $> 144"$: D + 100"
- 2 THE FOUNDATION UNDER THE PIPE AND SIDE BACKFILL SHALL BE ADEQUATE TO SUPPORT THE LOADS ACTING UPON IT (26.5.2).
- 3 BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE GRANULAR MATERIAL (CA-7) THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, AND A MINIMUM OF TWICE THE CORRUGATION DEPTH IN THICKNESS, WITH THE MAXIMUM PARTICLE SIZE OF ONE-HALF OF THE CORRUGATION DEPTH (26.3.8.1, 26.5.3).
- 4 CORRUGATED STEEL PIPE (CSP / HEL-COR).
- 5 HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION (26.5.4).
- 5a INITIAL BACKFILL FOR PIPE EMBEDMENT SHALL BE FREE DRAINING ANGULAR WASHED STONE 3/8" MINIMUM PARTICLE SIZE (CA-7), COMPACTED TO 90% STANDARD PROCTOR (T 99).
- 6 GRANULAR ROAD BASE TO MEET AASHTO A-1, A-2 OR A-3 CLASSIFICATION, OR APPROVED EQUAL, COMPACTED TO 90% STANDARD PROCTOR. LIFT THICKNESS FROM PIPE TO ROAD SURFACE SHALL NOT EXCEED 3" (12.4.1.2). ALL LIFTS PLACED IN A CONTROLLED MANNER. IT IS RECOMMENDED THAT LIFTS NOT EXCEED AN 8" UNCOMPACTED LIFT HEIGHT TO PREVENT UNEVEN LOADING, AND THE LESSER OF 1/3 THE DIAMETER OR 24" AS THE MAXIMUM DIFFERENTIAL SIDE-TO-SIDE (26.5.4).
- 6a INITIAL BACKFILL ABOVE PIPE MAY INCLUDE ROAD BASE MATERIAL (AND RIGID PAVEMENT IF APPLICABLE). SEE TABLE ABOVE.
- 6a TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT (12.6.6.3).
- 7 FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD (26.5.4.1).

NOTES:

- NOTES:
- GEOTEXTILE SHOULD BE CONSIDERED FOR USE TO PREVENT SOIL MIGRATION INTO VARYING SOIL TYPES (PROJECT ENGINEER).
 - FOR MULTIPLE BARREL INSTALLATIONS THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE PIPE DIA/2 BUT NO LESS THAN 12", OR 36" FOR PIPE DIAMETERS 72" AND LARGER. CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING (TABLE C12.6.7-1).
- TYPICAL BACKFILL DETAIL**

TYPICAL BACKFILL DETAIL
NOT TO SCALE



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CONTECH
CMP DETENTION SYSTEMS

CONTECH
DYODS
DRAWING

DYO14910 De Pere Municipal Service Center Expansion
84" CMP Underground System (4-6-22)
De Pere, WI
DETENTION SYSTEM

PROJECT No.: 9434	SEQ. No.: 14910	DATE: 4/6/2022
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D2		



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CONSTRUCTION

Project Owner

City of DePere
Municipal Services Center Renovation

925 S. Sixth Street
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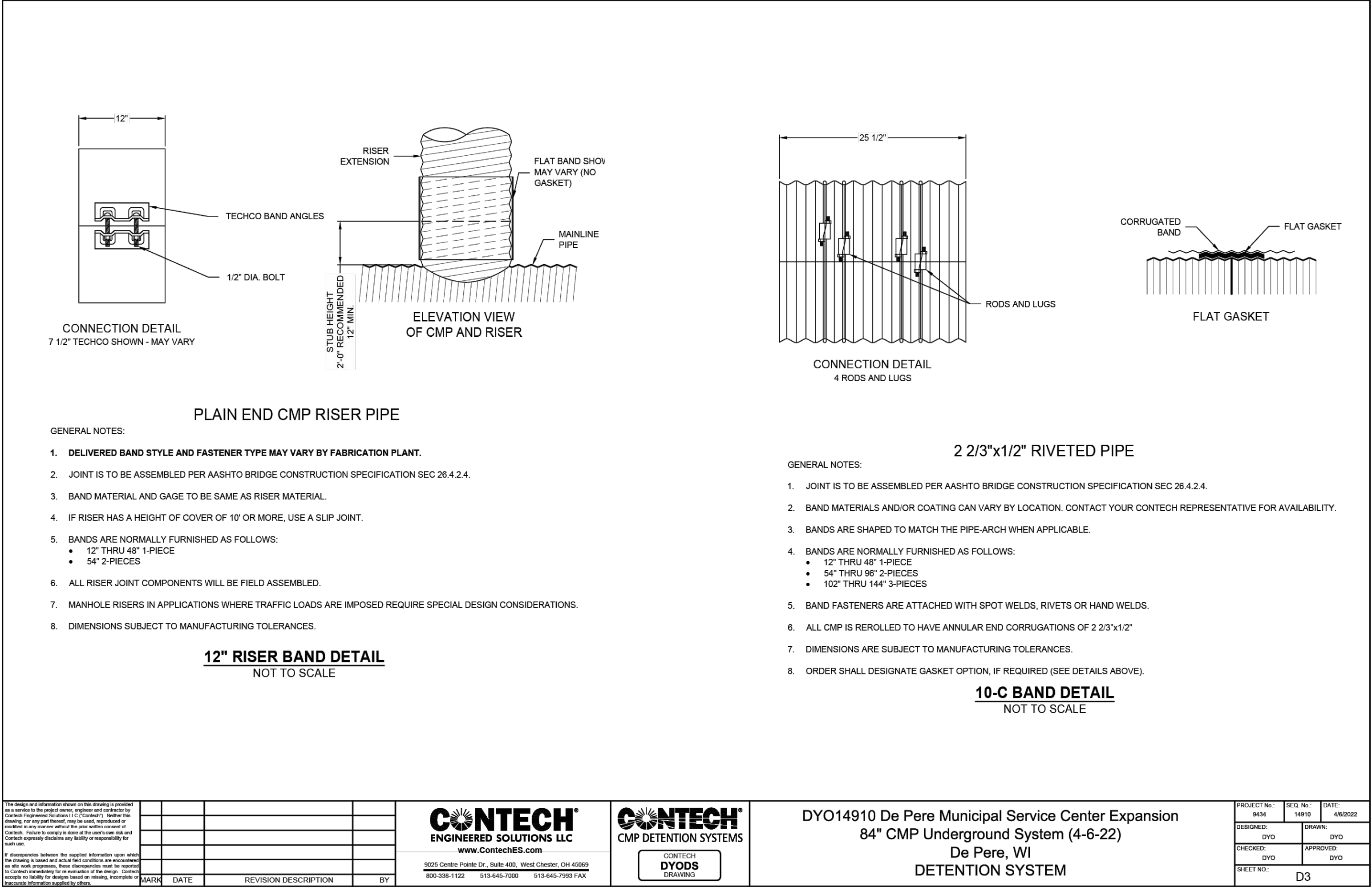
SEH Project 161454
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60% CIVIL PLANS 9-29-25

REVISION SCHEDULE
REV. # DESCRIPTION DATE

SITE DETAILS

C508



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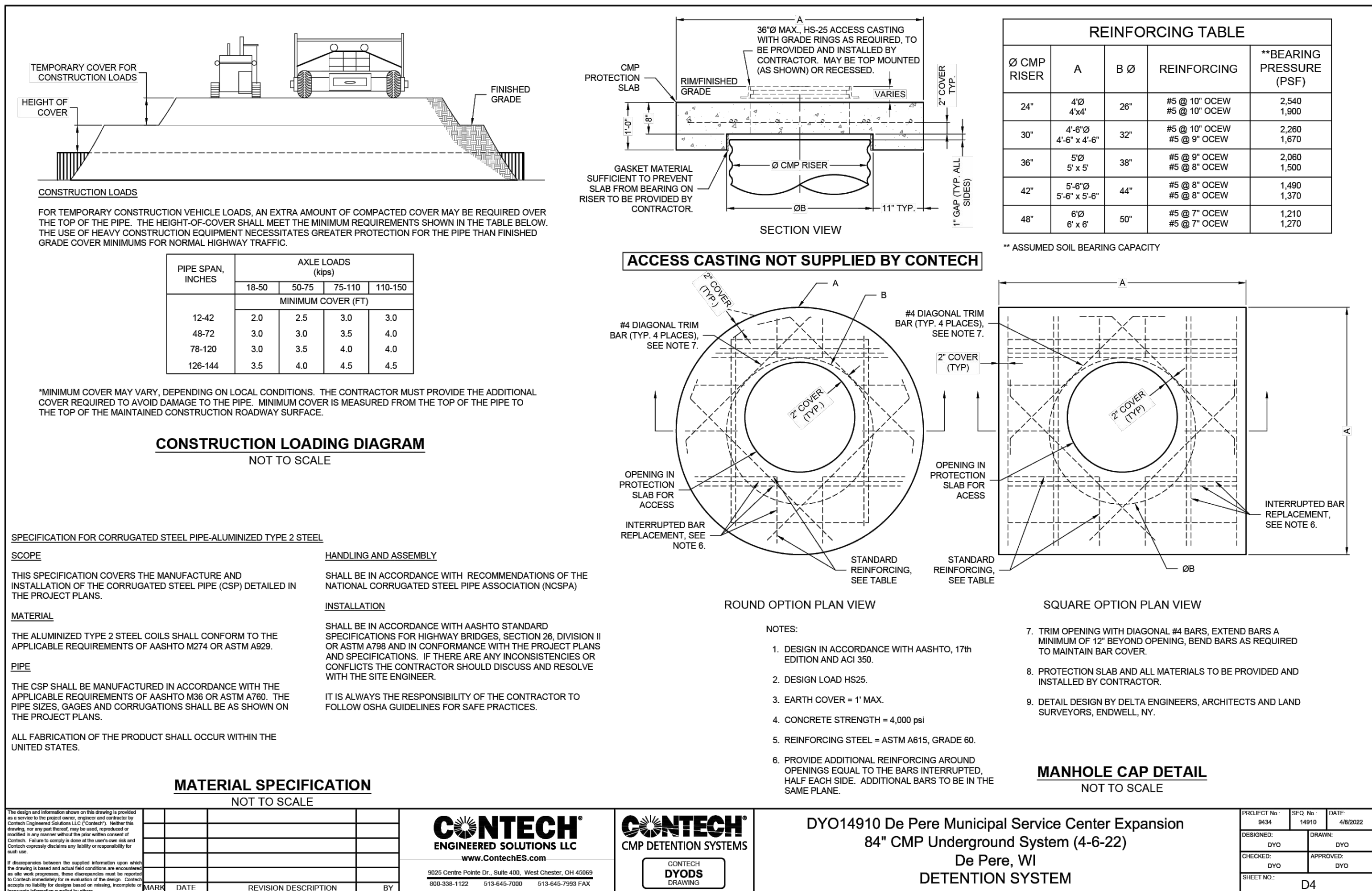
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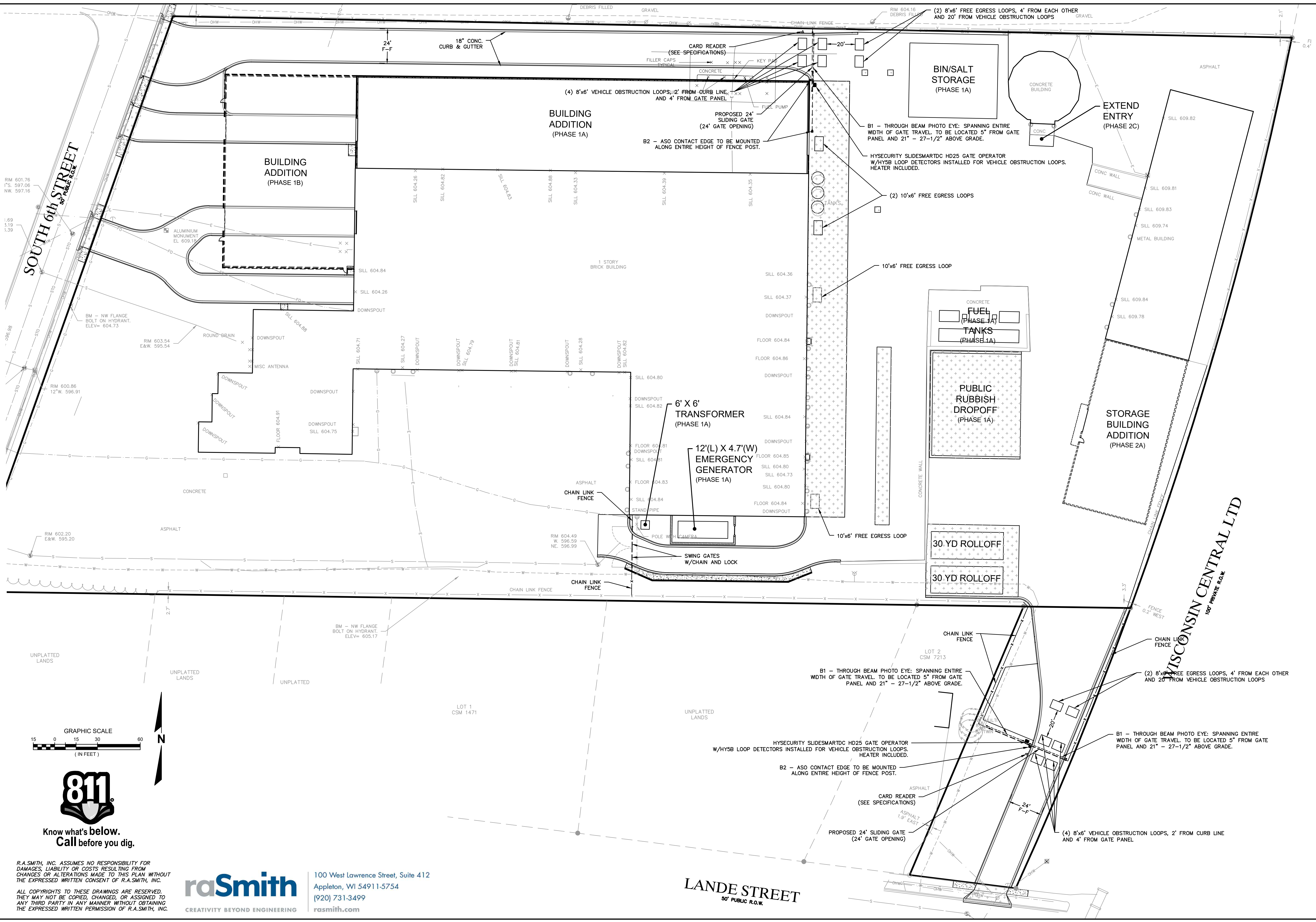
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60% CIVIL PLANS 9-29-25

SITE DETAILS

C509





811
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SEH Project	161454
Checked By	BH
Drawn By	YT

Project Status	Issue Date
60% CIVIL PLANS	9-29-25

REVISION SCHEDULE		
REV. #	DESCRIPTION	DATE

FENCE & GATE LAYOUT PLAN

C600

TECHNICAL SPECIFICATIONS for Model
SlideSmart DC™ HD25
Slide Gate Operator with Smart DC Controller
02827 HYS

PART 1 – GENERAL

1.1. INCLUDED IN THIS SECTION

- A. Pre-wired, gate operator for horizontal sliding gates, including all selected attachments and accessory equipment.
B. For further information, call Nikki Dinnel, (800) 321-9947, 210-842-6445, ndinnel@hysecurity.com with the manufacturer or visit the website at www.hysecurity.com.

1.2. RELATED WORK SPECIFIED ELSEWHERE

- A. Fencing. See section 32 3113.
B. Cast in place concrete. See section 03 3000.
C. Electrical service and connections. See division 26 0513.

1.3. SUBMITTALS

- A. Shop drawings: Submit shop drawings under the provisions of Section 01 3300. Submit drawings showing connections to adjacent construction, range of travel, and all electrical and mechanical connections to the operator. All underground runs of electrical lines and inductive vehicle obstruction loop locations shall be indicated on drawings. Drawings shall also show the size and location of the concrete mounting pad and or galvanized mounting posts.
B. Installation instructions: Submit two copies of manufacturer's installation instructions for this specific project.
C. Submit manufacturer's completed warranty registration form to Project Manager.
D. Project list: Submit list of product installations comparable to the subject job. Include date of product installation, installer, and owner's name and location of the project.
E. Test reports:
1. Submit affidavits from the manufacturer demonstrating that the gate operator mechanism has been tested to 200,000 cycles without breakdown.

1.4. QUALITY ASSURANCE

- A. Manufacturer: A company specializing in the manufacture of gate operators of the type specified, with a minimum of five years' experience manufacturing operators of this type and design.
B. Installer: Must have a minimum of three years' experience installing similar equipment, provide proof of attending a HySecurity Technical Training within the previous three years, or obtain other significant manufacturer endorsement of technical aptitude, if required, during the submittal process.

1.5. CODES AND REGULATORY REQUIREMENTS

- A. Operators shall be built to UL 325 standards and be listed by a nationally recognized testing laboratory. Complete all electrical work according to local codes and National Electrical Code. All fieldwork shall be performed in a neat and professional manner, completed to journeyman standards.
B. Current safety standards require the use of multiple external sensors to be capable of reversing the gate in either direction upon sensing an obstruction. See also 2.2F.
C. Vehicular gates should never be used by pedestrians. A separate pedestrian gate must always be provided when foot traffic is present.
D. Gate must have physical stops to prevent over travel in both the open and close directions.

www.hysecurity.com

Specification

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Specifications: SlideSmart DC™ HD25

- E. Current safety standards require gate operators to be designed and labeled for specific usage classes.
1. HySecurity model SlideSmart DC™ HD25 is listed for use in UL 325 Usage Classes I, II, III, and IV (SlideSmart DC™ HD25 is listed only for use in UL 325 Usage Classes III and IV when speed setting is faster than 1 ft/s).

1.6. PRODUCT DELIVERY AND STORAGE

- A. Comply with 01 6000.
B. Store products upright in the original shipping containers, covered, ventilated and protected from all weather conditions.

1.7. WARRANTY

- A. Provide a warranty against all defects in materials or workmanship for five years after the date of installation (for single-family residential applications the warranty shall be seven years after the date of shipment from the manufacturer). Defective materials shall be replaced at the manufacturer's discretion with new or reconditioned materials furnished by the manufacturer, at no cost to the owner. Freight, labor and other incidental costs are not covered under the factory warranty, but may be covered by a separate service agreement between installing company and the owner.
1. To ensure validation of warranty, complete warranty registration form online at www.hysecurity.com/warranty. Warranty registration form is also included in the printed materials shipped with the operator.

PART 2 – PRODUCTS

2.1. GATE OPERATORS

- A. HySecurity gate operator model SlideSmart DC™ HD25 with Smart DC Controller, or other comparable operator, as approved by the architect or specifier. Substitute operators that are approved will be published in an addendum, not less than ten days prior to bid opening. Requests for substitution will include the amount of savings to be passed on to the owner.

2.2. OPERATION

- A. Operation shall be by means of a brushed DC electric motor driving a single reduction gear reducer with an output sprocket driving #40 plated roller chain. When the gate is stopped, the motor applies a brake to the drive assembly which inhibits any forced, manual operation of the gate. Gate position is constantly monitored allowing for automatic reposition if motion is detected without the operator receiving a run command. The opening and closing speeds are user adjustable 0.75, 1.0, or 1.25 fts (228, 304, or 381 mm/s). Operator shall be capable of handling gates up to 50 ft (15,240 mm) in length weighing up to 2,500 lb (1,134 kg). To accomplish this the operator shall offer 450 lb (204 kg) of rated pull force to the gate. Gate Operator shall operate in the event of a power failure in an uninterruptible power supply mode to the extent the two 8Ah batteries can maintain adequate power.
B. Minimum standard mechanical components:
1. Two piece lockable metal cover. Cover protects bystanders from pinch hazards of roller chain traveling through idlers and drive sprocket.
2. Chassis to be constructed of 12ga (2.7 mm) or greater steel sheet, welded.
3. Cover to be constructed of 16ga (1.5 mm) or greater steel sheet, welded.
4. Finish: Chassis and covers to be powder coat painted black. Other components zinc plated or non-corroding.
5. Gear Reducer: filled with synthetic lubricant allowing operation down to -13° F (-25° C) without a heater.
6. Operator shall contain a position sensing device and a means of setting the limit position and maintaining this position in non-volatile memory. Operator must also contain a magnetic absolute position sensor to verify the gate position.
7. Zinc or nickel plated #40 roller chain with chain mount brackets and connecting hardware.
C. Minimum standard electrical components:
1. Motor: 1/2 hp brushed DC motor with ball bearings.
2. Electronic circuit boards to be conformal coated to resist moisture induced failures.
3. All components shall have overload protection.
4. Controls: Smart DC Controller Board containing:

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Specification

D0855 Page 2 of 4

Specifications: SlideSmart DC™ HD25

- a. inherent entrapment sensor;
b. built in audible "warn before operate" system;
c. built in timer to close;
d. 32 character LCD for reporting of functions and codes with 5 button user interface;
e. multiple programmable output relay options;
f. anti-tailgate mode;
g. built-in power surge/lightning strike protection;
h. multi-stage intelligent battery charging under microprocessor control;
i. menu configuration, event logging and system diagnostics easily accessible with a PC and HySecurity's free Smart Touch Analyze and Retrieve Tool;
j. RS-232 port for connection to laptop or other computer peripheral and RS-485 connection for network interface;
k. dual gate communication connection for bi-parting, Sally port, or sequenced gates;
l. electromechanical and solid state relays;
m. radio option outputs;
n. 15 inputs for site specific configurations;
o. pulse width modulated control of brushed DC motor using 110A rated solid state switching devices.
5. Transformer: 250 VA, dual voltage. (N/A for solar model)
6. Input power: 115V, 208V/230V Field selectable.
7. Accessory power: 12 VDC, 24 VDC
D. Required external sensors: See 1.5B. Specify photo eyes or gate edges or a combination thereof to be installed such that the gate will reverse in either direction upon sensing an obstruction.
1. Through Beam photo eyes.
a. As indicated on drawings
2. Gate edge.
a. As indicated on drawings
E. Optional control devices:
1. HID ProxPro II 5455 RF card reader
a. As indicated on drawings
2. HID ProxPro II 1326 RD proximity cards
a. Quantity to be determined by owner
2. Hy5B plug in type vehicle detectors for free egress loops
a. As indicated on drawings
3. Hy5B plug in type vehicle detectors for vehicle obstruction loops
a. As indicated on drawings
4. Emergency vehicle open devices as dictated by local code.
F. Optional alert devices: Flashing lights or rotating beacon. Configurable audible beacon included as standard.
G. Stop switch, accessible from outside.
H. Back Drivable: During AC and DC power loss, the gate can be pushed open.
I. Other options:
1. Extended battery backup using two 50Ah batteries.
2. Base riser brackets. Also serve as post top mount brackets.
3. 115V or 230V heater kit

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Specification

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Specifications: SlideSmart DC™ HD25

PART 3 – EXECUTION

3.1. SITE EXAMINATION

- A. Locate concrete mounting pad or galvanized steel mounting posts in accordance with approved shop drawings and in compliance with local building codes.
B. Make sure that gate is operating smoothly under manual conditions before installation of gate operators. Do not proceed until gate panel is aligned and operates without binding.

3.2. INSTALLATION

- A. Install gate operator in accordance with the safety regulations and the manufacturer's product literature and installation instructions, current at the time of installation. Coordinate locations of operators with contract drawings; other trades and shop drawings.
B. Installer shall ensure that the electrical service to the operator is at least 15A. Electrical wiring to conform to NEC and manufacturer's installation instructions. SlideSmart DC™ HD25 is 500W.

3.3. FIELD QUALITY CONTROL

- A. Test operator through ten full open and close cycles and adjust for operation without binding, scraping or uneven motion. Test limit switches for proper open and close limit positions.
B. All anchor bolts shall be fully tightened in the finished installation.
C. Owner, or owner's representative, shall complete "check list" with installing contractor prior to final acceptance of the installation and submit completed warranty documentation to manufacturer.

3.4. CONTINUED SERVICE AND DOCUMENTATION

- A. Train owner's personnel on how to safely shut off electrical power, release and manually operate the gate. Additionally, demonstrate the general maintenance of the gate operator and accessories and provide one copy of "Programming and Operations Manual" for the owner's use. Manuals will identify parts of the equipment for future procurement. Direct maintenance personnel to the technical support sections on HySecurity's website at www.hysecurity.com.

NOTE: HySecurity reserves the right to change these specifications at any time, without notice and without prejudice. Call (800) 321-9947 if you are not sure that you have the latest edition.

CAUTION: Operators manufactured by HySecurity are intended for use in controlling vehicular traffic and are not intended to be used by pedestrians or to control pedestrian traffic. **Always install a separate pedestrian gate.**

www.hysecurity.com

Specification

D0855 Page 4 of 4



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Project Owner

City of DePere
Municipal Services Center Renovation

925 S. Sixth Street
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SEH Project 161454
Checked By BH
Drawn By YT

Project Status Issue Date

60% CIVIL PLANS 9-29-25

REVISION SCHEDULE

REV. # DESCRIPTION DATE

GATE SPECIFICATIONS

C601

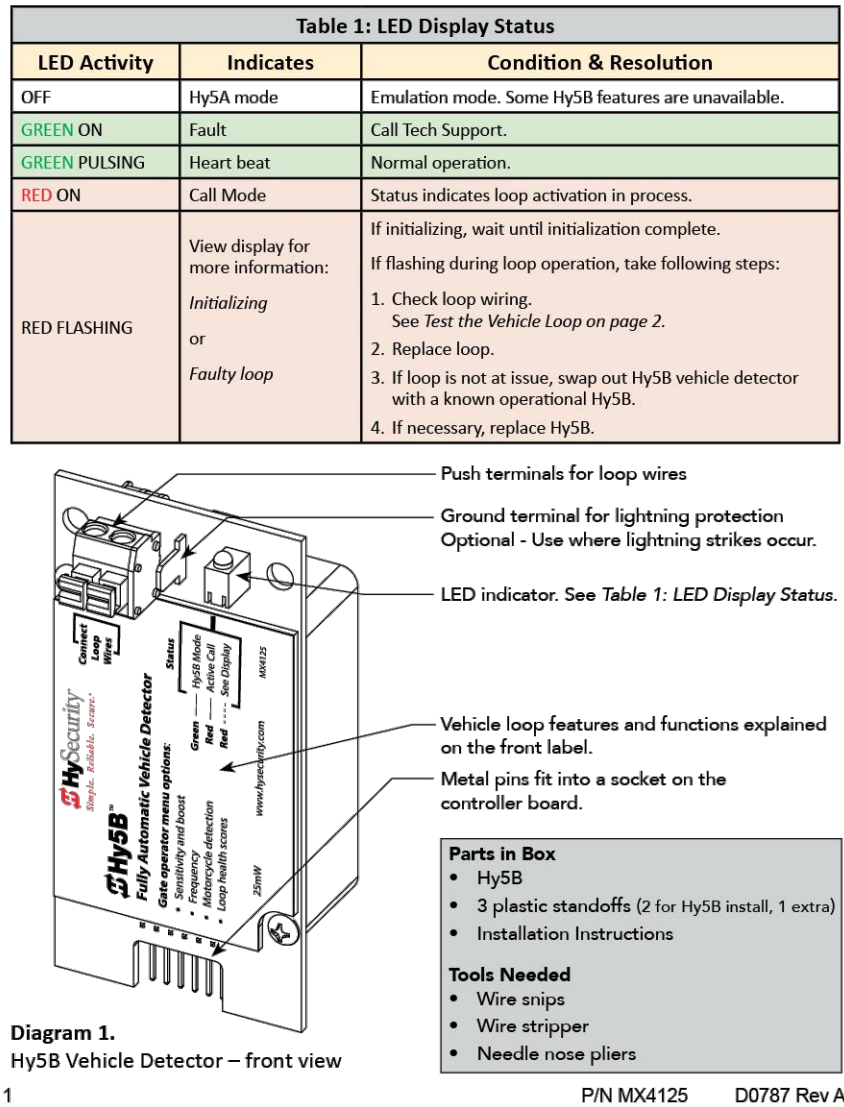
Installation Instructions
Hy5B Vehicle Detector: MX4125

Contents

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Hy5B Installation	2
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Check the Version of Software.....	2
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Hy5B Vehicle Detector Features

- Automatic Sensitivity** – The Hy5B monitors vehicle traffic over the loop and automatically adjusts the loop sensitivity based on vehicle type and volume.
- Automatic Gate Compensation** – The Hy5B discerns gate travel over the loop and automatically compensates for its effect. The compensation allows the Hy5B to operate with a higher sensitivity which provides better detection capability.
- No Loop Crosstalk** – Exclusive use of Hy5B vehicle detectors in HySecurity gate operators, completely eliminates crosstalk and the need to set frequency levels.
- Vehicle Counting** – Hy5B detects passenger vehicles and motorcycles.
- Automatic Lightning Suppression** – Where lightning strikes occur often, use of a ground terminal minimizes the chance of detector activation or lock-up.
- Health Scores for Loop** – Hy5B monitors the loop for changes that are indicative of possible problems. A score is accessible through the event log, LG menu item.
- Automatic Hy5A emulation mode** for backward compatibility.



Hy5B Installation

To install an Hy5B vehicle detector, you will need to take the following steps:

- Test the vehicle loop
- To use all the features of Hy5B, update the software version on the gate operator to the latest version using S.T.A.R.T. and a PC laptop. Access free software updates from the HySecurity website: www.hysecurity.com
- Install the Hy5B vehicle detector
- Drive a test vehicle over the loops. Fully cycle the gate at least 2 times to allow the detector to adjust to the effects of the gate during travel.

Test the Vehicle Loop

Run diagnostic tests on the vehicle loops before installing Hy5B vehicle detectors to ensure the loops are in good working condition. The following tests cannot guarantee a functioning loop, but failure of either test means that the loop may be damaged or need to be replaced.

- Test – Measure the resistance of the loop and lead-in wire. It should not exceed 4.0 ohms.
- Test – Measure the resistance to earth ground with a Megohmmeter (Megger). It should be 100 Megohms or more.

NOTE: Loops may function at 100 Megohms or less, but will not be reliable (for example, when the ground is wet from rainfall). A low megohm reading on the resistance to earth ground usually occurs due to broken or moisture saturated insulation. Be sure to use wire with a direct burial jacket such as XLPE or XHHW wire. Do NOT use THHN wire.

Check the Version of Software

- In the field, open the Control Box in the gate operator.
- Press the RESET key on the keypad. The version appears. For Hy5B operation, the version needs to be h4.54 or h5.55 (or higher).
- If you need to update the software, download the current software and operator code to the controller board before installing Hy5B vehicle detectors. See www.hysecurity.com for information and updates.

NOTE: Hy5A emulation mode does not include all the features of Hy5B. If you are replacing Hy5A detectors and updating the gate operator software, be aware Build Year 1 (BY1) or Build Year 2 (BY2) will need to be addressed. BY2 requires monitoring of external entrapment protection sensors per UL 325 - 2016 Standard of Safety. For more information, refer to the gate operator's product manual.

Install Hy5B Vehicle Detectors

Install one Hy5B detector at a time. Each vehicle detector socket is labeled as shown in Table 1: LED Display Status.

- Turn power OFF in control box. See Diagram 2. Control Boxes.
- Insert the squared-off end of the plastic standoff through the hole in the Hy5B detector. See Diagram 3. Insert Plastic Standoffs.

NOTE: The plastic standoff "squared-off end" does not fit into the mounting holes of the control box. Double check the orientation of squared-off ends.

- To minimize excessive flexing, keep the Hy5B in a vertical position as you plug it into the Hy5B socket.
- Place the two wires from the loop into the push terminals of the Hy5B. For ease of installation, the wire gauge should be 20 - 14 AWG.

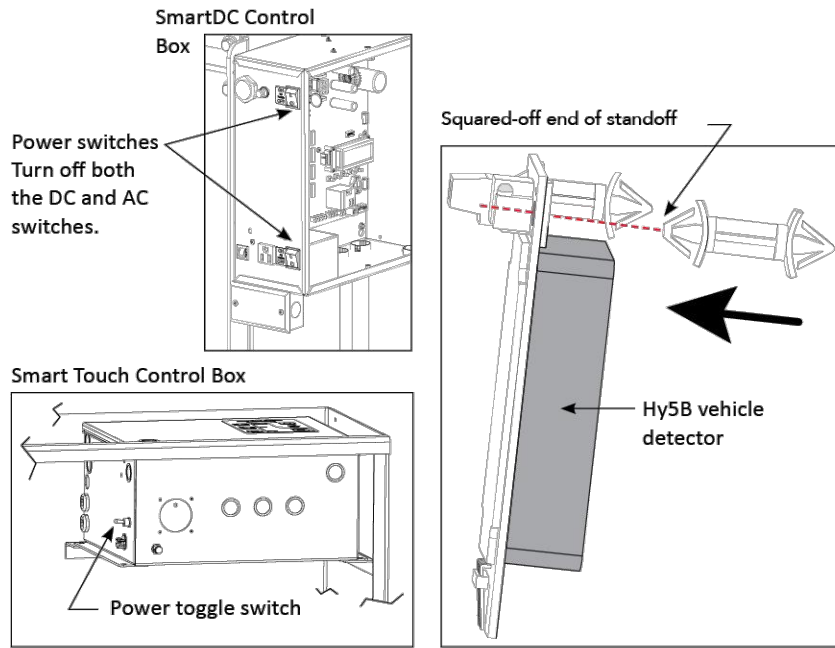


Diagram 2. Control Boxes

Diagram 3. Insert Plastic Standoffs

Table 2: Vehicle Loop Sets				
Loop Type	Installer Menu	Loops Smart DC	Loops Smart Touch	Description
Exit Loop	ELD	EXIT LOOP	FREE EXIT	Opens a fully-closed gate.
Inside Reversing Loop	ILD	INSIDE OBSTRUCTION	INSIDE OBSTR	Connects to the inside reversing loop.
Outside Reversing Loop	OLD	OUTSIDE OBSTRUCTION	OUTSIDE OBSTR	Connects to the outside reversing loop.
Reset/Shadow/Center	SLO/CLD	CENTER LOOP	SHADOW / RESET	Prevents a gate from starting open or closed when a vehicle is in the path of the gate.

NOTE: If power to the operator was turned off, turn it back on.

- The Hy5B indicator light flashes red and the following appears.
Smart Touch 7-segment Display
INITIALIZING
- When the LED on the Hy5B detector stops flashing red, it flashes green. Initialization is complete and the detector is ready for use.

To install another Hy5B detector, leave the power ON.

- Press Reset
- Repeat steps 2 through 6 for each Hy5B detector being installed.

NOTE: If the Hy5B is unplugged after it is initialized, an alert appears on the display, ALERT 10. If the issue is not resolved, ERROR 3 appears. When faults occur, the gate operator functions as if the Hy5B is triggered.

Pressing the Reset button:

- Clears alerts
- Checks Hy5B loop connections and re-tunes Hy5B to prevent crosstalk
- Un-installs memory of vehicle detectors physically removed

CAUTION

Do not connect Free Exit loop wires to the same Hy5B detector containing obstruction loop wires (reversing loops). You cannot combine Free Exit vehicle detection with reversing loop detection. If you attempt to do so, vehicles crossing over the Free Exit will not be detected.

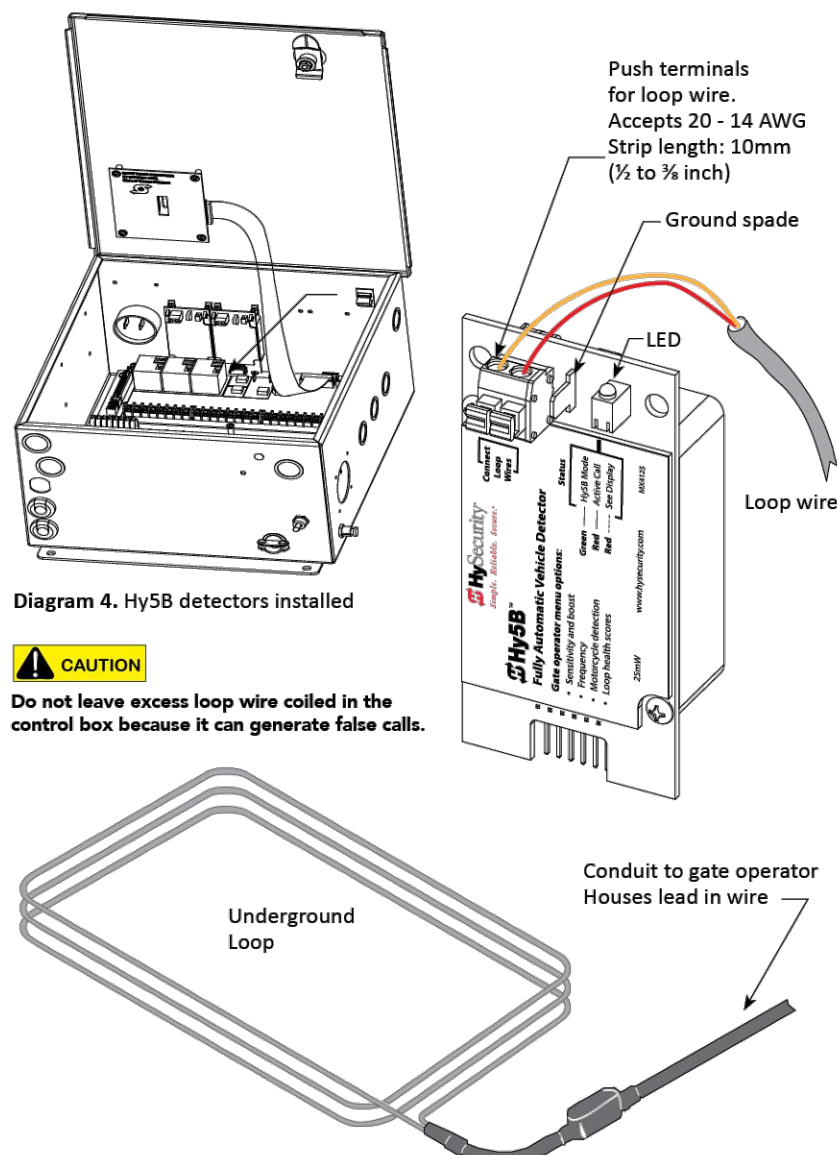


Diagram 4. Hy5B detectors installed

Diagram 5. Loops and Hy5B

Test Loop and Gate Operation

CAUTION

The Hy5B automatically tunes itself to gate movement during the first gate cycle and incorporates boost memory on the second open/close cycle. It is imperative for the safety of vehicular traffic that a minimum of 2 gate cycles is employed so thresholds are acquired and maintained properly. Be sure to test loops and cycle the gate open and close at least 2 times.

- To initialize Hy5B automatic sensitivity and boost, use a vehicle to drive over the loops and perform a minimum of 3 gate open/close cycles. Make sure the vehicle crosses over all loops.
- When the gate operator and vehicle loops are functioning properly, carefully replace the gate operator's cover and secure it to the chassis.

NOTE: When you turn on both DC and AC power switches for SlideSmart DC, StrongArmPark DC and WedgeSmart DC the gate, wedge, or arm will move while searching for its home target.

Advanced Loop Configuration via the Installer Menu

Access to the Installer Menu allows you to:

- Adjust the sensitivity
- View the call level, sensitivity, loop inductance, or health in real time
- Set frequency (if using a combination of Hy5B and box vehicle detectors)
- Set call detection presence

NOTE: Installer Menu options can also be configured through the use of a laptop computer and S.T.A.R.T. See Smart Touch Analyze and Retrieve Tool information found on the HySecurity website: www.hysecurity.com

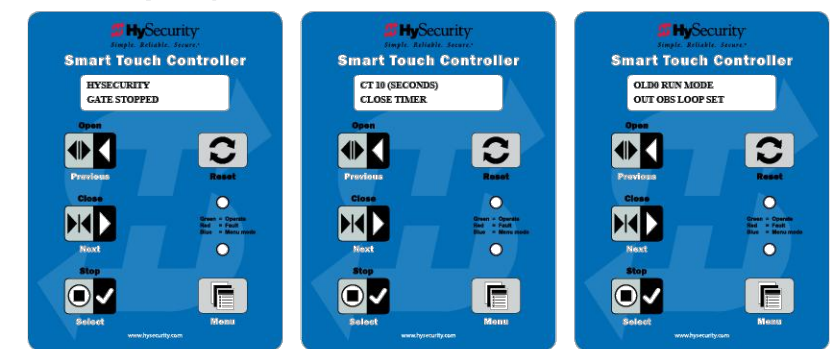


Diagram 6. Smart Touch Gate Status Displays

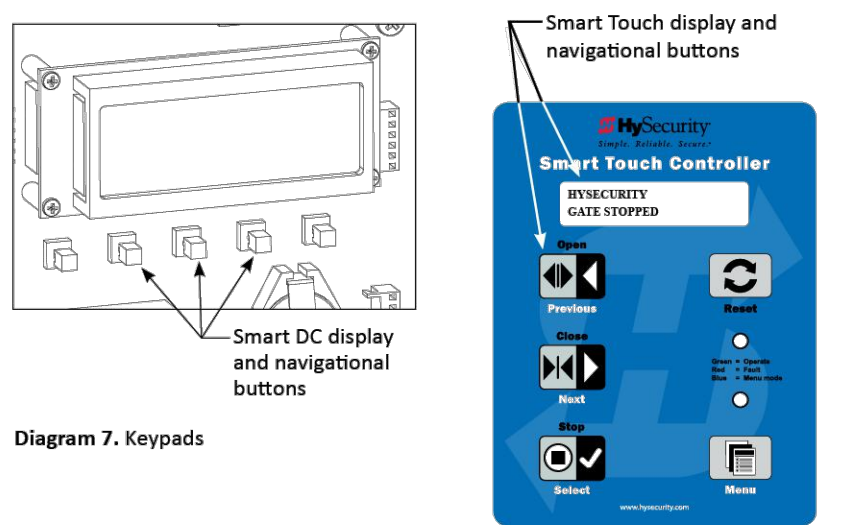


Diagram 7. Keypads

Accessing the Installer Menu

To access the Installer Menu, a gate status must appear on the display (Examples: Gate Stopped, Gate Open, Gate Closed).

- Press the Menu button twice.
- Access the Installer Menu by simultaneously pressing and holding the Reset and Open buttons.
- Release both buttons and the display changes, indicating you have arrived at the first item in the Installer Menu.
- Use the Next or Previous buttons on the keypad to navigate to a Loop Set socket. See Table 2: Vehicle Loop Sets on page 3. For more information on navigating within Menu Mode, see Table 3 below.

Table 3: Menu Mode Navigation Buttons			
To change data appearing in the display	To navigate through the Selections	To choose what appears on the display	To navigate between menu items
Press Select. Two left characters blink.	Press Next or Previous. Continue pressing Next to view all selections.	Press Select. Blinking characters become static.	Press Next or Previous. Previous - press Previous. Previous - press Previous.

Setting Gate Function for Reversing Loops

The default setting for a call (detection) on reversing loops is to stop and reverse the gate to full open. The gate operator can be reconfigured to pause gate closure, and then continue traveling in the same direction. To make changes to the setting, you need to access the Installer Menu.

The abbreviated item names appear in the menu as:

7 Segment Display	Smart Display	Description
0-1 1-1	OR1 IR1	Outside Obstruction Loop Detector
		Inside Obstruction Loop Detector

The tables below describe the Hy5B items that appear in the Smart Touch or Smart DC Installer Menu.

- Review the label associated with the socket containing the Hy5B vehicle detector.
- Access the Installer Menu and select the menu item associated with the Hy5B socket. See Table 2: Vehicle Loop Sets.
- When the Installer Menu item is displayed, press SELECT.
- Press NEXT to scroll through the sub-menu. See tables.
- Press SELECT to change menu item data (if allowed).
- To learn how to navigate and select items within the menu tree, refer to, Table 3: Menu Mode Navigation Buttons on page 4.
- To exit to Run Mode, press Menu.

For more information about free exit loop and detector logic settings, refer to your gate operator's product manual.

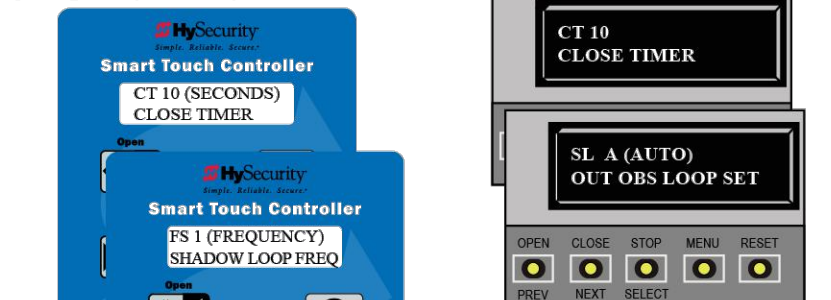


Diagram 8. Installer Menu Displays

Viewing and Configuring Loop Set Features

Table 4: Loop Frequency, Sensitivity, and Presence		
Installer Menu Sub-menu Item	Display	Description
1	SHOW FREQ	Show loop frequency
2	CALL LEVEL	Show CALL strength
3	SET FREQ	Change the frequency setting
4	SHOW SENS	Show the sensitivity setting
5	SET SENS	Change the sensitivity setting
6	SHOW INDUCT	Show the loop inductance
7	SHOW HEAT	Show the loop health scores
8	SET PRESEN	Change the CALL hold time setting

NOTE: Do not exceed more than 200 square feet (61 square meters) of loop area to one detector. The detection height is roughly 2/3's the size of the shortest side of the loop.

As a basic guide, if manually reconfiguring loop sensitivity settings, consider:

- On a standard-sized 6 x 6 loop, 0 and 4 provide the lowest sensitivity.
- As the loop's square foot area increases beyond standard-size, it requires a higher sensitivity number to detect same-sized vehicles.

Table 5: Sensitivity Settings via the Installer Menu		
Hy5B Sensitivity	LOOP SET Display	Description
A	(AUTO)	Hy5B only: Default setting. Automatically monitors vehicular traffic pattern and adjusts sensitivity. Boost feature enabled.
M	(MOTORCY)	Hy5B only: Automatically adjusts threshold to incorporate sensitivity for motorcycles. Boost feature enabled.
0	(LOW BST)	Hy5B & Hy5A: Manual setting. Lowest sensitivity. Boost enabled.
1	(NORM BST)	Hy5B & Hy5A: Manual setting. Boost enabled.
2	(HI BST)	Hy5B & Hy5A: Manual setting. Boost enabled.
3	(XHI BST)	Hy5B & Hy5A: Manual setting. Highest sensitivity. Boost enabled.
4	(LOW)	Hy5B & Hy5A: Manual setting. Lowest sensitivity. No boost.
5	(NORM)	Hy5B & Hy5A: Manual setting. No boost.
6	(HI)	Hy5B & Hy5A: Manual setting. No boost.
7	(XHI)	Hy5B & Hy5A: Manual setting. No boost.

NOTE: A boost feature is needed for detecting unusual vehicular traffic patterns or to assist when environmental factors (electrical or radio interference) exist. Boost increases the sensitivity during a call and is useful for maintaining continuous detection if the signal becomes weak. Sensitivity settings 4 through 7 are the same as 0 through 3, but without the boost feature.

Loop Presence

Geometry of loop and knowledge of site traffic determines best use. Presence is dependent on "disturbance effect" of the entire vehicle. Presence determines how long to hold the "memory" of a stationary vehicle on a loop before it is forgotten and ignored.

A basic guide to setting the presence of the loop:

- LONG (default) lasts about 20 hours dependent on call strength and sensitivity setting. The Hy5B tunes out the "disturbance effect" when a vehicle is stationary on a portion of the loop, but keeps the undisturbed (unaffected) portion of the loop operational.
- INFINITE never drops the call. The INFINITE setting requires a certain amount of signal strength. A "threshold" is maintained and it will hold the call forever. The loop connected to an Hy5B with this setting may become non-functioning.

Table 6: Setting Loop Presence		
Installer Menu Sub-menu Item	Display	Example Site Scenario
PR 0	(LONG)	With the sensitivity set to A (AUTO) and a large sedan stationary on the loop, LONG presence may hold the call for many hours before the vehicle's presence is tuned out. Then, the stationary vehicle is ignored and the unaffected portion of the loop becomes operational. In contrast, with the sensitivity set to M (MOTORCYCLE), the default threshold only lasts about 1 hour before the presence of the motorcycle on the loop is tuned out.
PR 1	(INFINITE)	A site where standing or parked vehicular traffic (on large area loops) is a daily or consistent basis, the INFINITE presence setting is a viable option. When the loop may have vehicles parked on it for more than several hours and it must hold the call, set the presence to INFINITE.

NOTE: The Hy5B has the ability to continue counting vehicles passing over the loop even though a stationary vehicle may be on a portion of the loop. The controller and Hy5B detector also exchange pertinent information, so if a power failure were to occur, the controller can determine if a vehicle is on the loop when power returns.

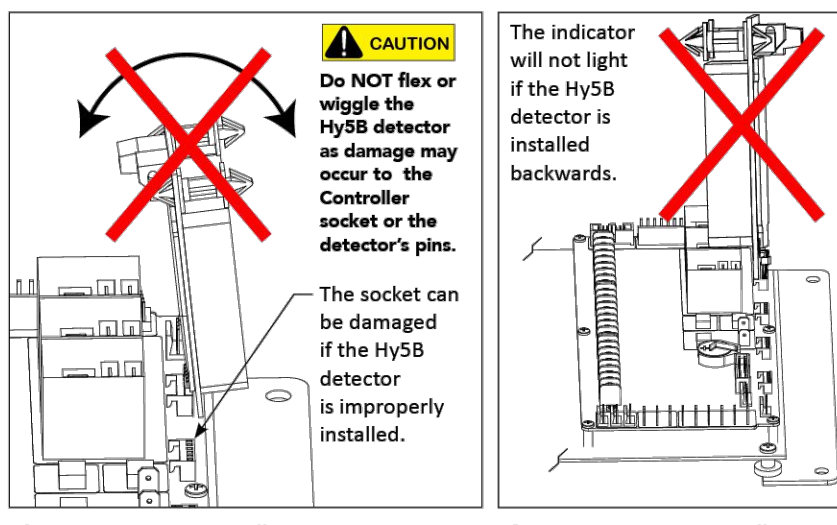


Diagram 9. Incorrect installation

Diagram 10. Incorrect installation

Troubleshooting

The gate operator display shows vehicle detection alerts, faults and errors which can help in troubleshooting loop issues. For a full list of error codes, refer to the gate operator's product manual.

Check that you have accomplished the following, before calling Tech Support:

- Tested loop viability and gate operation. Using a vehicle to cross the loops, cycle the gate open & close at least two times to allow for automatic tuning to gate movement and to set appropriate thresholds in Hy5B memory.
- Correctly installed and initialized the Hy5B.
- Verify that the software version on the gate operator is the latest version, you're planning to use all the features of the Hy5B.
- If two loops are attached to the same Hy5B detector, make sure loops are identical in size (sq.ft. area) and number of wire turns. If loops are odd shaped or not identical in form, you may need to manually adjust sensitivity via the Installer Menu or re-install the vehicle loops.

n:\2210208\Draw\2025 Draw\Plan Set\2210208-FENCE_GATE_PLANO1.dwg, C603 GATE SPECIFICATIONS, 11/12/2025 9:46:30 AM, v_1

Table 7. Troubleshooting Tips		
Symptoms	Problem	Resolution
Intermittent detection. False vehicle loop detection.	Phantom lockups - no vehicle over loop and detector goes into call mode. Chattering - HyS8 changes call states without evidence of vehicle. Symptoms can also occur when the HyS8 detector is seated improperly during installation. Do NOT flex the module into place. See Diagrams 9 & 10. The HyS8 module remains undamaged, but the socket on the Controller has been loosened or damaged.	Use HyS8 detectors. Mixing box detectors and HyS8 detectors can cause intermittent issues. Cable wiring, electrical/radio interference can also be a problem. 1. Access the Event Log (User Menu setting, UG). Call levels show in the event log. A low call level could indicate a bad loop or loop wires may have moved or slipped. If the call level is too high (level 7), it may indicate false trips are occurring. Either case, the sensitivity may need adjusting. 2. Reseat and re-initialize. See <i>Install HyS8 Vehicle Detectors</i> on page 2. Do NOT flex the module into place. See Diagrams 9 & 10. 3. Exchange a known "working correctly" HyS8 for the one in question. Replace HyS8, if necessary. 4. Run both tests discussed in <i>Test the Vehicle Loop</i> on page 2.
Gate does not always open or close when a vehicle crosses the obstruction loop.	Most likely, the HyS8 detectors were connected to the controller as a group and then initialized.	1. Individually install each HyS8 module. 2. Wait until the indicator light turns off before pressing the Reset button and installing the next HyS8 detector.
No indicator light appears on the HyS8 detector.	HyS8 emulation mode. Normal operation. If you planned to use HyS8 mode, the HyS8 detector is installed backwards or it could be defective.	1. Test the loop. If the LED flashes red, the loop and vehicle detector are working properly. 2. Check the orientation of the HyS8 detector and re-install it, if necessary. If using HyS8 mode, a green LED indicator should blink when the detector is operating properly. 3. Check wiring integrity of the loops.
ALERT 7 FREQ SHIFT FAULT	HyS8 detector has detected a frequency change outside the normal range.	1. Test loop viability. See <i>Test the Vehicle Loop</i> on page 2. 2. Electrical or radio interference causing problems in the area? 3. Check wiring integrity of the loops.
ALERT 8 LOOP SHORTED	HyS8 detector has detected a short circuit in the loop.	1. Temporarily switch detectors to be sure the loop is at fault. 2. If needed, repair it.

Table 7. Troubleshooting Tips		
Symptoms	Problem	Resolution
ALERT 9 LOOP OPEN	HyS8 detector has sensed that the loop has become an open circuit.	1. Check all loop wiring connections. 2. If needed, use an ohmmeter to find out where the break is in the loop.
ALERT 10 PC BUS ERROR	Communications error alert.	HyS8 has been removed or a lack of integrity in the socket connection exists. The display indicates which detector the alert applies to: Exit Loop (ELD), Inside Obstruction Loop (ILD), Outside Obstruction Loop (OLD), Center Loop (CLD). 1. Remove and re-install the HyS8. 2. Press RESET. 3. Replace the HyS8, if necessary. If communication is not re-established within 30 seconds, the controller will reset and the message changes to ERROR 3.
ALERT 11 DETECTOR FAULT	Unknown fault.	1. Perform the megohm test and fix the loop, if necessary. 2. Replace the HyS8 if the problem continues.
ALERT 12 ON TOO LONG	The detector believes there has been a vehicle on the loop for more than 5 minutes.	1. Is there something metal on (or near) the loop? 2. Is the sensitivity adjustment set too high? 3. Is the roadway solid? If the underground loop moves it will give false readings. A problem may exist with the loop itself. New loops should read 100 mega-ohms or better, between 50 and 100 operation are generally OK, below 50 mega-ohms, install a new loop. See <i>Test the Vehicle Loop</i> on page 2.
ERROR 3 HY8 FAILED	One or more detectors are not communicating properly.	1. Remove detectors. 2. Reset the controller. 3. Re-install detectors one at a time until faulty detector or loop is found.

Technical Support

For technical support, call your installer or authorized HySecurity distributor. Obtain the serial number of your operator before calling. For the name of a distributor near you, contact HySecurity at 800-321-9947.

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PIN MX4125 D0787 Rev A

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Optional base extension and retrofit adapter

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 - HyNet™
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- 5 year warranty

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- Sturdy steel enclosure
- Side mount posts
- Fast model available

Nice 7251/7351 Residential

SlideSmart CNX Commercial

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Residential and Commercial

Slide Gate Operator

3 SlideSmart™ HD Models

	FAST	SlideSmart DC HD15F	SlideSmart DC HD25	SlideSmart DC HD30
Model				
Gate Weight Max.		1,500 lb (680 kg)	2,500 lb (1,134 kg)	3,000 lb (1,361 kg)
Gate Length Max.		50 ft (15 m)		
Pull Force*		300 lb	450 lb	500 lb
Rate of Travel		1.75, 2 or 2.25 f/s (53, 61 or 69 cm/s) Open/Close speed set independently	0.75, 1 or 1.25 f/s (23, 30 or 38 cm/s) Open/Close speed set independently	
Duty Cycle		1 hp	Continuous	1 hp
Drive		1/2 hp	Electromechanical	
UPS Battery Backup Cycles †		Field configurable to fail open or secure when batteries deplete. Standard battery backup gate travel: Two 8Ah batteries. Up to 4,000 ft (1,219 m) after AC power loss. Extended battery backup gate travel: Two 52Ah batteries. Up to 25,000 ft (7,620 m) after AC power loss.		
Temperature Rating		-13° to 158° F (-25° to 70° C)		
Operating Voltage		24VDC		
Input Voltage		115V or 208-230V, 60/50 Hz		
Accessory Power		12VDC and 24VDC 1A each		
Communication		USB, RS-232, RS-485, Ethernet/fiber using optional HyNet™ Gateway accessory		
User Controls		Smart DC Controller with 70+ configurable settings. 32 character LCD display and 5 tact buttons or a PC using S.T.A.R.T. software.		
Relays		Two configurable user relays: 30VDC, 3A solid state and 250VAC, 10A electromechanical, Optional Hy8Relay™ for 8 additional relay outputs		
Finish		Zinc rich primer and black powder coated steel cover/chassis		
ETL Listed (UL 325)		Usage Class II, IV**	Usage Class I, II, III, IV**	
Cycle Tested		500,000 cycles		
Warranty		5 year w/product registration		

Optional Accessories - See website for complete list

Battery Backup Kit - 50 Ah

Base Extension & Retrofit Adapter

HD Heater Kit

Hy5B™ 2.0 Vehicle Detector

Hy8Relay™ Module

HyNet™ Gateway Integration

Photo Eye Kits

ASO Edge Sensors

Nice HySecurity™

Contact Nice | HySecurity for an operator/parts distributor near you.
phone: 253-867-3700 | 800-321-9947
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Intertek

SEH

NOT FOR CONSTRUCTION

Project Owner

City of DePere
Municipal Services Center Renovation
925 S. Sixth Street
DePere, WI 54415

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161454
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YT

Project Status
60% CIVIL PLANS

Issue Date
9-29-25

REVISION SCHEDULE

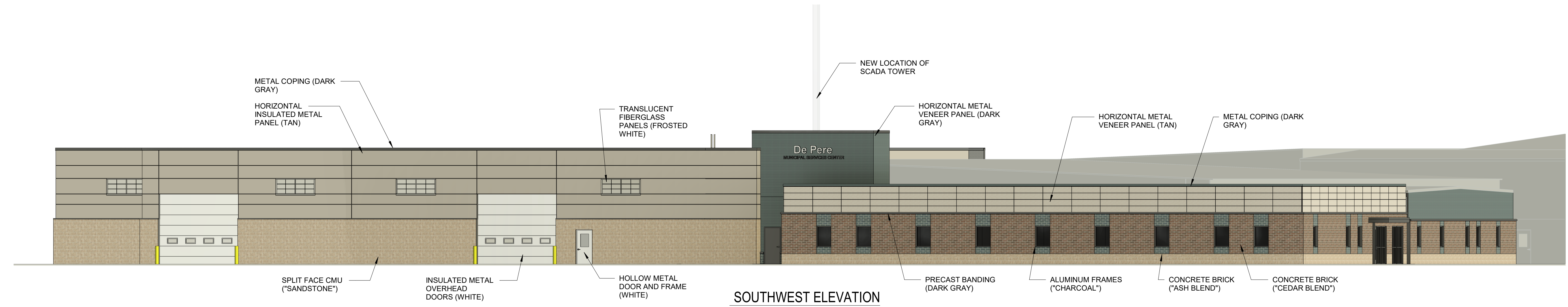
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GATE SPECIFICATIONS

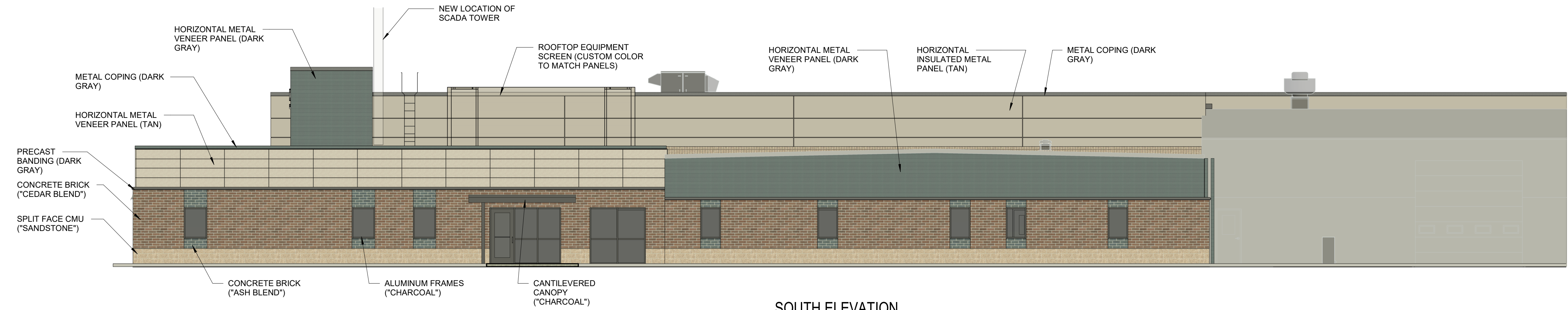
C603



NORTHWEST ELEVATION



SOUTHWEST ELEVATION



SOUTH ELEVATION

City of De Pere
Municipal Services Center Renovation

925 S Sixth St.
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EXTERIOR VIEWS