DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 47457

CONSTRUCTION AND ELECTRICAL WORK
PROVIDE PEDESTRIAN WALKWAY & PAVEMENT RESTORATION
STATE ARMORY
27 MASTEN AVE
BUFFALO, NY

April 24, 2024

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION WORK

1. Page 028304 – 6.
   a. Delete Article 3.01 in its entirety.
   b. Delete Article 3.04 in its entirety.

2. Page 032100 – 3, Article 3.01, Add the following Paragraph:

"B. Welded wire reinforcement sheet laps shall be tied and lapped one full mesh spacing plus 2-inches. Reinforcing bar lap splice lengths per schedule below:

CONCRETE REINFORCEMENT SCHEDULES:

TENSION DEVELOPMENT LENGTH/CLASS B SPLICE LENGTH/ LAP LENGTH Ld						
	F'c IN PSI @28 DAYS					
BAR SIZE	3,000	3,500	4,000	4,500	5,000	6,000
#3	22"	20"	19"	18"	17"	16"
#4	29"	27"	25"	24"	23"	21"
#5	36"	33"	31"	30"	28"	26"
#6	43"	40"	37"	35"	34"	31"
#7	63"	58"	54"	51"	49"	45"
#8	72"	66"	62"	59"	56"	51"

NOTES:
1. TABLE BASED ON ASTM A615 GRADE 60 STEEL.
2. SPLICES ARE TO BE STAGGERED.
3. TABLE BASED ON NORMAL WEIGHT CONCRETE, UNCOATED OR ZINC-COATED REINFORCEMENT.
4. TABLE INDICATES MINIMUM LAP UNLESS NOTED OTHERWISE.
5. PROVIDE MINIMUM CLEAR SPACING BETWEEN BARS OF 2 TIMES BAR DIAMETER AND MINIMUM CLEAR COVER OF BAR DIAMETER

."

3. Page 310000 – 12, Article 3.15, Add the following Paragraphs:

"B. Perform Field Compaction testing during the backfilling process. Provide evaluation of in-place density and continuous verification of lift thickness in accordance with contract documents. Frequency of density tests to be approximately once every 10,000-square feet and every lift.

C. The 3rd party testing/inspection firm shall review proof rolling of the subgrade."

4. Page 033000 – 13, Article 3.09, Add the following Paragraphs:

"I. Obtain one composite sample for each mixture placed each day where placement exceeds 5 c.y. but is less than 25 c.y., plus one additional set for each additional 50 c.y. or fraction thereof.

J. Compression strength: cast and laboratory cure two sets of two 6" by 12'' cylinder specimens for each composite sample. Test one cured specimen at 7 days, one set of two specimens at 28 days, and hold one cured specimen for a test at 56 days, if necessary.

K. Slump and air content: one test for each composite sample, but not less than one test for each mixture placed each day."

5. SECTION 055213 PIPE AND TUBE RAILINGS: Add the accompanying Section (pages 055213—1 to 055213-6) to the Project Manual.

CONSTRUCTION DRAWINGS

6. Revised Drawings:
   a. Drawing Nos. C-500, C-501, C-502, and C-503, noted "ADDENDUM REVISION 4/22/2024" accompany this Addendum and supersede the same numbered originally issued drawings.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 055213

PIPE AND TUBE RAILINGS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Cast-In-Place Concrete: Section 033000.

1.02 SUMMARY

A. Section Includes:
   1. Steel railings.

1.03 COORDINATION

A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

B. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not satisfy structural performance requirements.

1.04 SUBMITTALS

A. Product Data: For the following:
   1. Manufacturer's product lines of mechanically connected railings and connectors.
   2. Railing brackets and fasteners.
   3. Grout and anchoring cement.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

C. Delegated Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.05 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
   1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect mechanical finishes on exposed surfaces of railings from damage by applying a strippable, temporary protective covering before shipping.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Structural Performance: Railings, including attachment to building construction, withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
   1. Handrails and Rails of Guards.
      a. Uniform load of 50 lbf/ ft. applied in any direction.
      a. Concentrated load of 200 lbf applied in any direction.
      a. Uniform and concentrated loads need not be assumed to act concurrently.

B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

2.02 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.
   1. Provide type of bracket with flange tapped for concealed anchorage to threaded hanger bolt and that provides 1-1/2-inch clearance from inside face of handrail to finished wall surface.

2.03 STEEL RAILINGS

A. Source Limitations: Obtain each type of railing from single source from single manufacturer.

B. Tubing: ASTM A500/A500M (cold formed) or ASTM A513/A513M, Type 5.
   1. Provide galvanized finish for exterior installations.

C. Pipe: ASTM A53/A53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.
   1. Provide galvanized finish for exterior installations.

D. Plates, Shapes, and Bars: ASTM A36/A36M.

E. Cast Iron Fittings: Either gray iron, ASTM A48/A48M, or malleable iron, ASTM A47/A47M, unless otherwise indicated.

2.04 FASTENERS

A. Fastener Materials:
   1. Ungalvanized-Steel Railing Components: Plated steel fasteners complying with ASTM F1941/F1941M, Class Fe/Zn 5 for zinc coating.
   2. Hot-Dip Galvanized Railing Components: Type 304 stainless steel or hot-dip zinc-coated steel fasteners complying with ASTM A153/A153M or ASTM F2329/F2329M for zinc coating.
   3. Finish exposed fasteners to match appearance, including color and texture, of railings.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:
   1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.

D. Post-Installed Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC193.

2.05 MISCELLANEOUS MATERIALS

A. Handrail Brackets: Stainless steel, provide 1-1/2 inches clear from handrail to face of guard railing.

B. Welding Rods and Bare Electrodes: Select in accordance with AWS specifications for metal alloy welded.

C. Etching Cleaner for Galvanized Metal: Complying with MPI#25.

D. Galvanizing Repair Paint: High-zinc-dust-content paint, complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

E. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout, complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

2.06 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage**,** but not less than that required to support structural loads.

B. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.

1. Clearly mark units for reassembly and coordinated installation.
2. Use connections that maintain structural value of joined pieces.

C. Cut, drill, and punch metals cleanly and accurately.

1. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated.
2. Remove sharp or rough areas on exposed surfaces.

D. Form work true to line and level with accurate angles and surfaces.

E. Fabricate connections that are exposed to weather in a manner that excludes water.

1. Provide weep holes where water may accumulate.
2. Locate weep holes in inconspicuous locations.

F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.

G. Connections: Fabricate railings with welded connections unless otherwise indicated.

H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove flux immediately.
4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Finish #2 welds; good appearance, completely sanded joint, some undercutting and pinholes okay.

I. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.

J. Form changes in direction as follows:
1. By bending to smallest radius that will not result in distortion of railing member.

K. Bend members in jigs to produce uniform curvature for each configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

L. Close exposed ends of hollow railing members with prefabricated cap and end fittings of same metal and finish as railings.

M. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch or less.

N. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.

2.07 STEEL AND IRON FINISHES

A. Galvanized Railings:

1. Hot-dip galvanize steel railings, including hardware, after fabrication.
2. Comply with ASTM A123/A123M for hot-dip galvanized railings.
3. Comply with ASTM A153/A153M for hot-dip galvanized hardware.
4. Fill vent and drain holes that are exposed in the finished Work, unless indicated to remain as weep holes, by plugging with zinc solder and filing off smooth.

B. For galvanized railings, provide hot-dip galvanized fittings, brackets, fasteners, sleeves, and other ferrous components.

PART 3 EXECUTION

3.01 INSTALLATION, GENERAL

A. Perform cutting, drilling, and fitting required for installing railings.

1. Fit exposed connections together to form tight, hairline joints.
2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
4. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
5. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

B. Adjust railings before anchoring to ensure matching alignment at abutting joints.

3.02 RAILING CONNECTIONS

A. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.

3.03 ANCHORING POSTS

A. Form or core-drill holes not less than 6 inches deep and 3/4 inch larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.

B. Leave anchorage joint exposed with 1/8-inch buildup, sloped away from post.

3.04 CLEANING

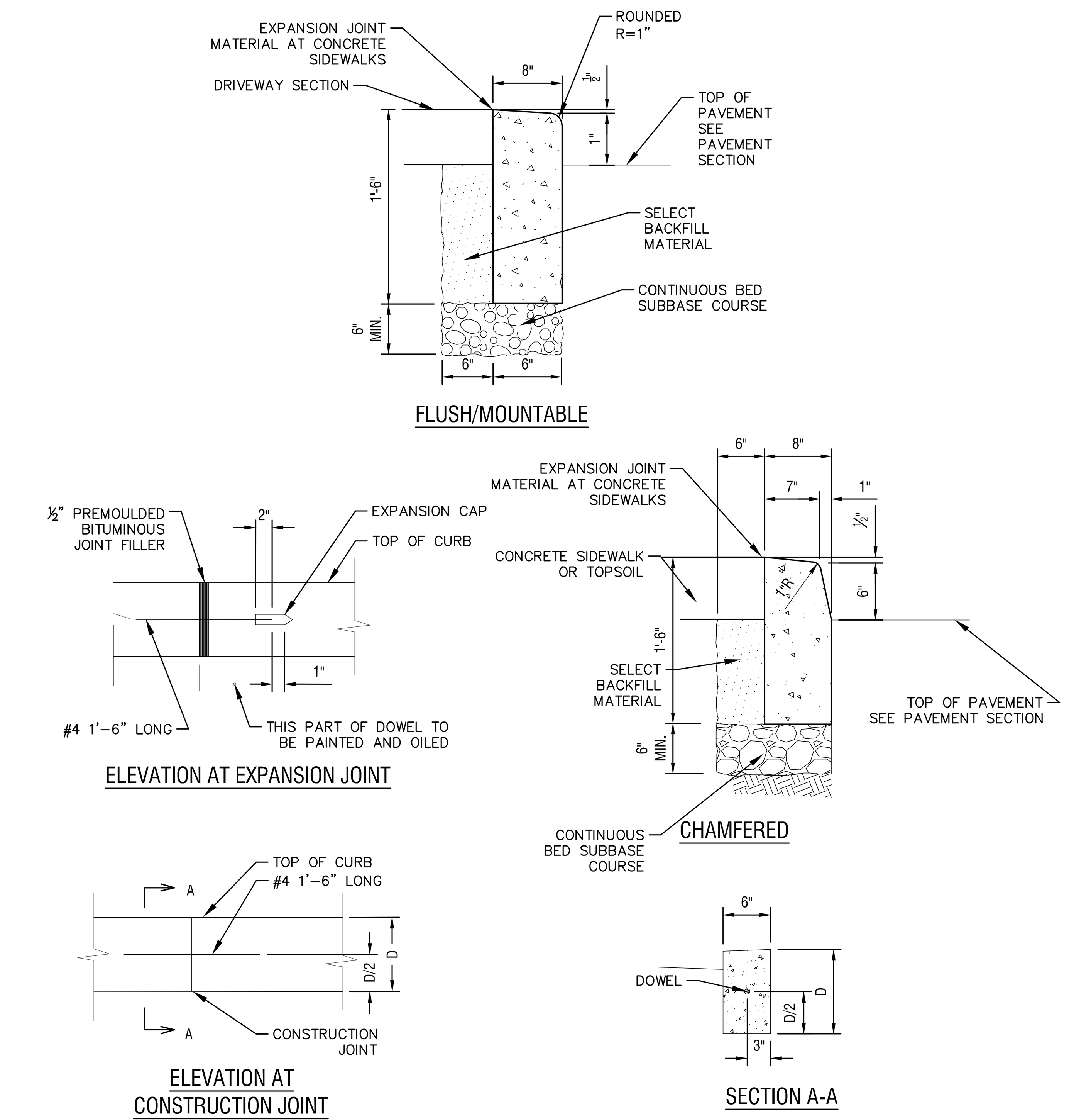
A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas, and repair galvanizing to comply with ASTM A780/A780M.

3.05 PROTECTION

A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

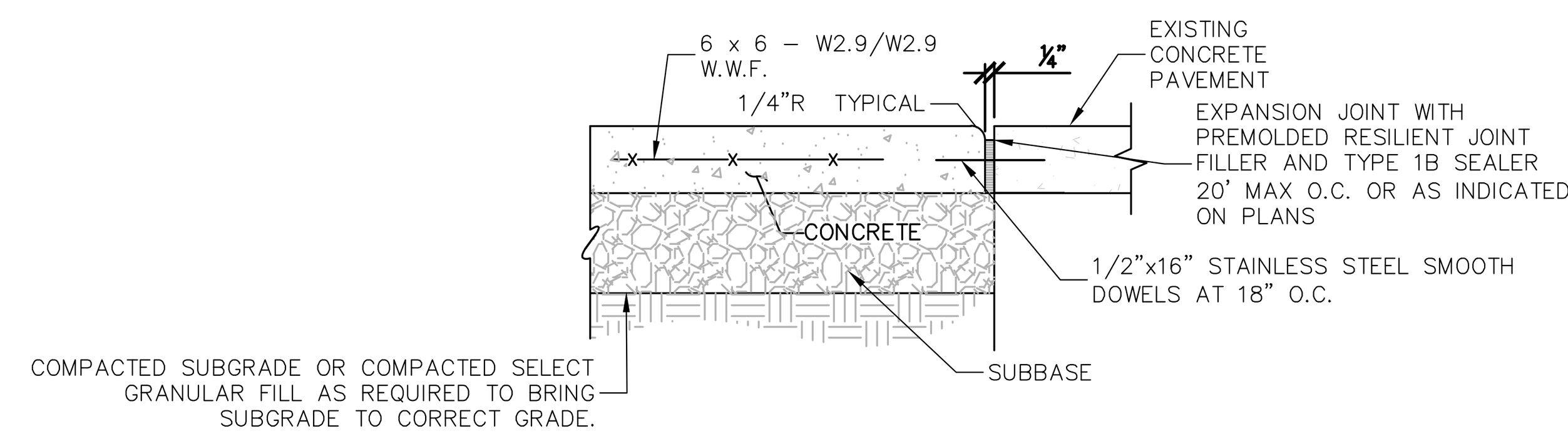
END OF SECTION



NOTES:

1. SLOPE TOP OF CURB 1/4" PER FOOT TOWARD PAVEMENT.
2. CONTRACTION JOINTS SHALL BE FORMED OR SAWCUT EVERY 10 FEET TO DEPTHS SLIGHTLY BELOW THE PAVEMENT SURFACE.
3. EXPANSION JOINTS 1/2" IN WIDTH SHALL BE FORMED WITH A PREMOULDED BITUMINOUS JOINT FILLER EVERY 40 FEET.
4. EXPANSIONS JOINTS AND FORMED CONTRACTION JOINTS ARE TO BE EDGED WITH CONCRETE FINISHING TOOLS.
5. CONCRETE SEALING AGENT SHALL BE APPLIED THE SAME DAY THAT CURBS ARE CONSTRUCTED.
6. CONCRETE CURBING WITHIN R.O.W. SHALL CONFORM WITH NYSS M609-2R1.
7. CURB THICKNESS T IS TO BE 5" OR AS INDICATED ON THE DRAWINGS.
8. PROVIDE 0" CURB REVEAL FOR HEADER CURB AT SIDEWALK RAMPS AND 1" CURB REVEAL FOR HEADER CURB AT DRIVEWAYS.
9. ALL CURB, EXCEPT HEADER CURB USED FOR SIDEWALK ACCESS RAMPS, IS TO HAVE THE 1" RADIUS.
10. GRADED STONE BACKING IS TO BE PLACED WHEN SIDEWALK DOES NOT ABUT CURB.
11. USE 4500 PSI CONCRETE FOR CONVENTIONALLY FORMED CURB. AND 4500 PSI CONCRETE FOR MACHINE FORMED CURB.

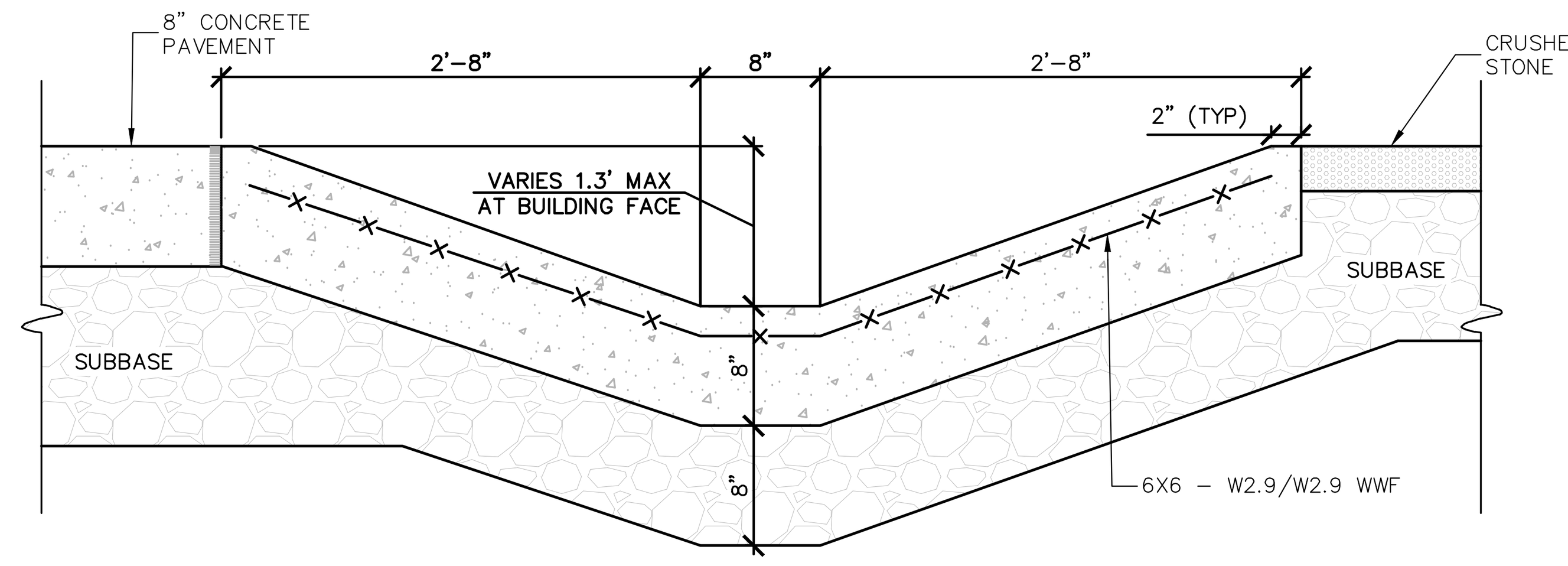
11 C-500 CONCRETE CURB



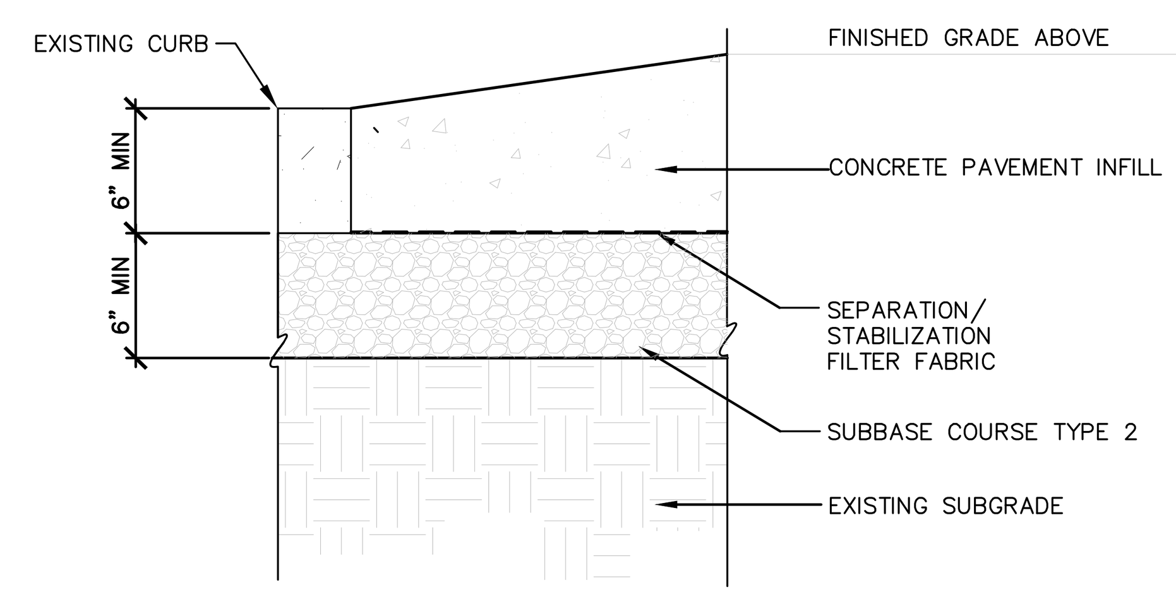
14 C-500 EXPANSION JOINT AT EXISTING PAVEMENT EDGE

NOTE:

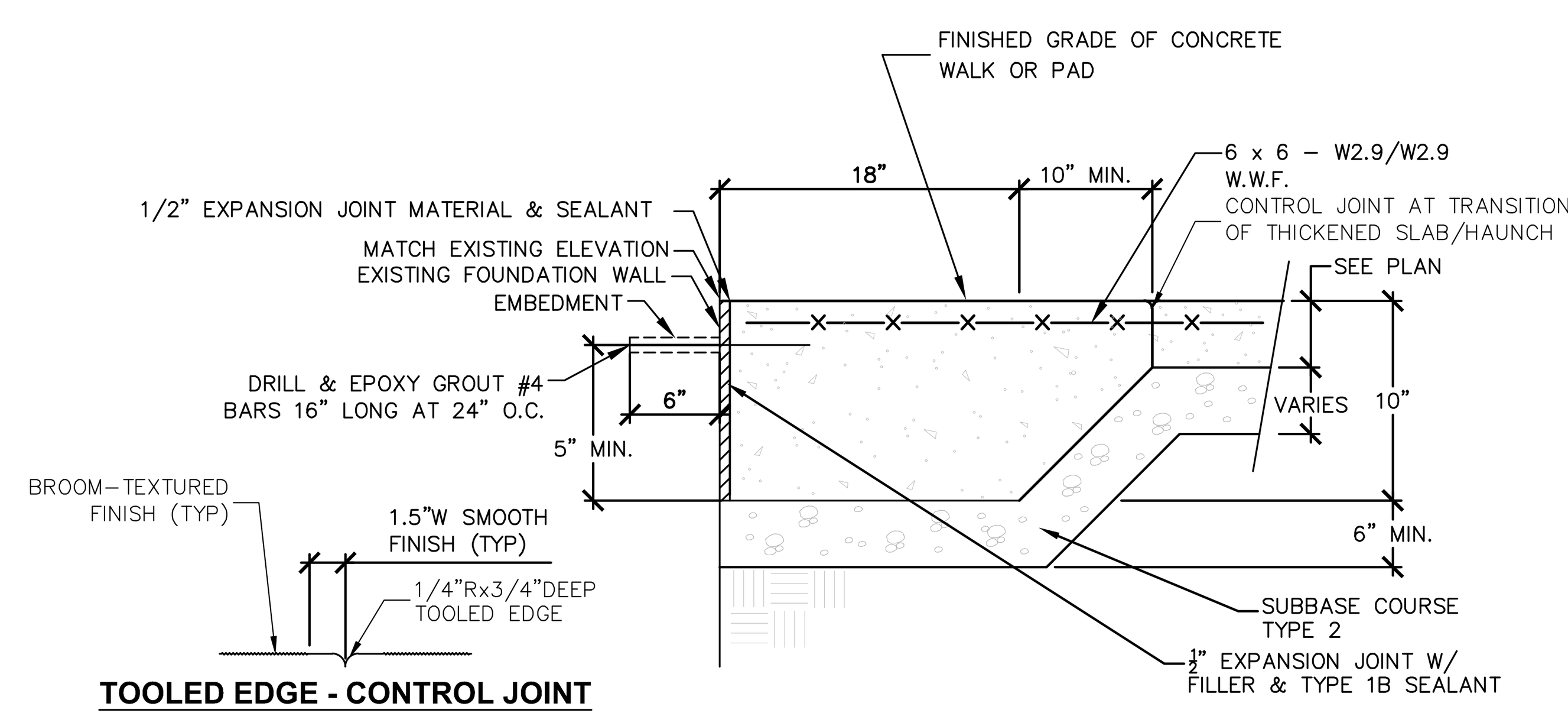
1. ALL CONCRETE SHALL BE AT A MINIMUM COMPRESSIVE STRENGTH OF 4,500PSI. CONCRETE MUST OBTAIN A COMPRESSIVE STRENGTH OF 4,500PSI BEFORE CONTINUING WORK FROM THE NORTH TO THE SOUTH OF THE DEFINED SEQUENCING LINE.



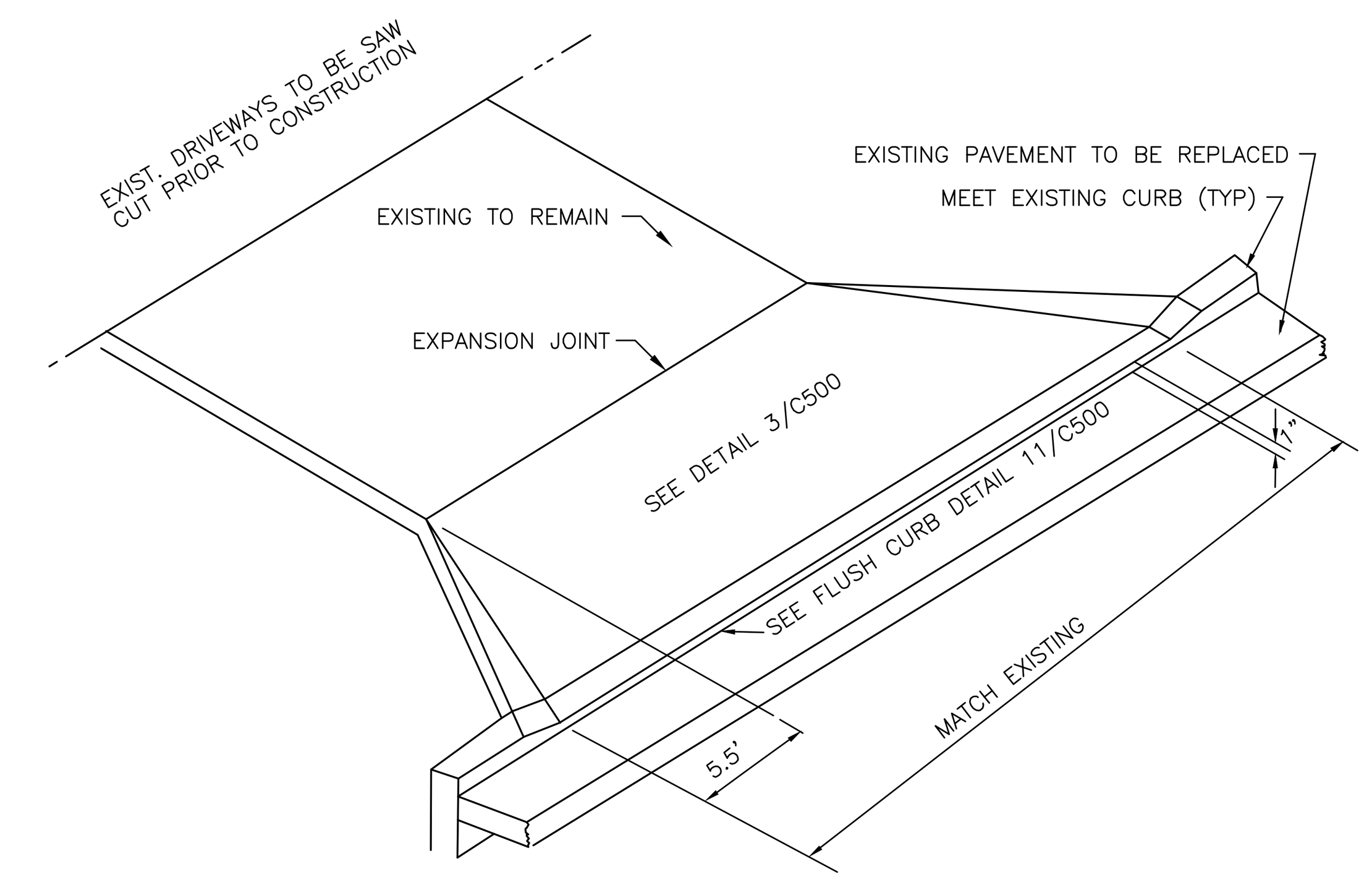
12 C-500 SLIDE GATE CONCRETE VALLEY



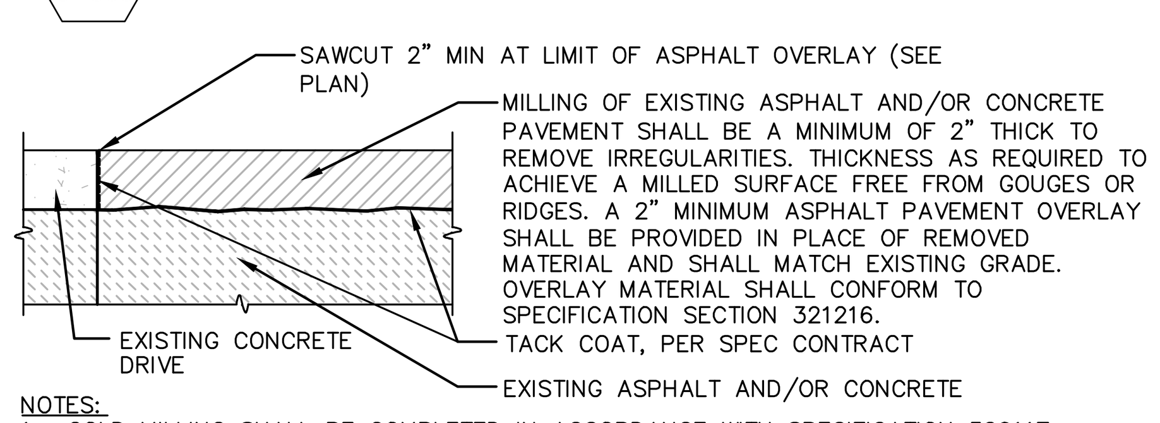
13 C-500 CONCRETE INFILL DETAIL



10 C-500 HAUNCHED CONC. SLAB AT BLDG – CONCRETE PAVEMENT SECTION



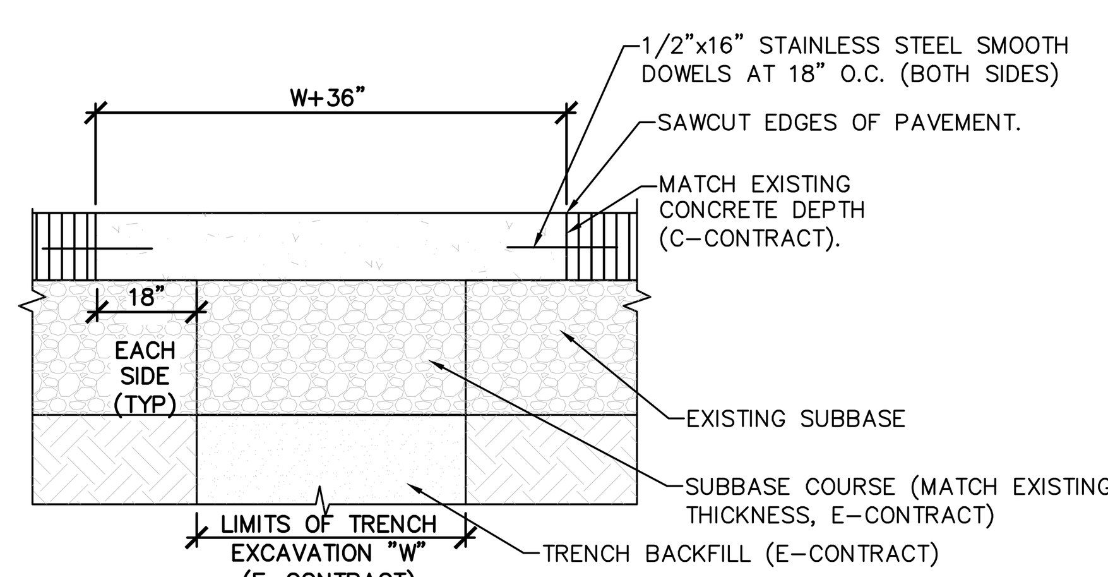
9 C-500 CONCRETE APRON WITH CURB DETAIL



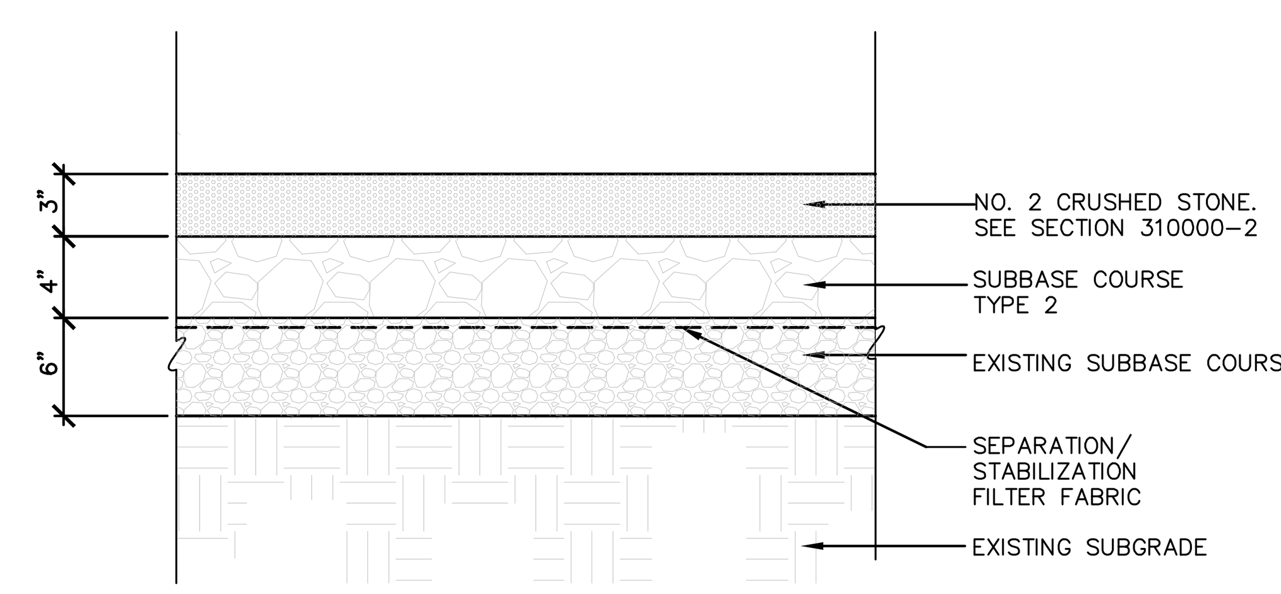
NOTES:

1. COLD MILLING SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATION 320117 – PAVEMENT REPAIR AND RESURFACING
2. MILLED SURFACES SHALL BE SWEPT CLEAN OF LOOSE MILLINGS AND CLEANED OF ALL FINES AND DUST.
3. ALL MATERIALS REMOVED DURING THE MILLING OPERATION, SHALL BE DISPOSED OF BY THE CONTRACTOR.
4. IF AREAS ARE ENCOUNTERED THAT ARE UNSUITABLE TO SUPPORT THE ASPHALT OVERLAY, THESE AREAS ARE TO BE BOXED OUT AND THE FULL PAVEMENT SECTION IS TO BE REMOVED. THE PAVEMENT SECTION IS TO BE REPLACED TO MATCH THE EXISTING SECTION WITH A MINIMUM OF 2" TOP COURSE AND 2½" BINDER.
5. MILLED SURFACES TO BE OVERLAID WITH ASPHALT SHALL BE COVERED WITH A DENSE GRADED ASPHALT COURSE WITHIN A 48 HOUR PERIOD OF THE MILLING OPERATION.

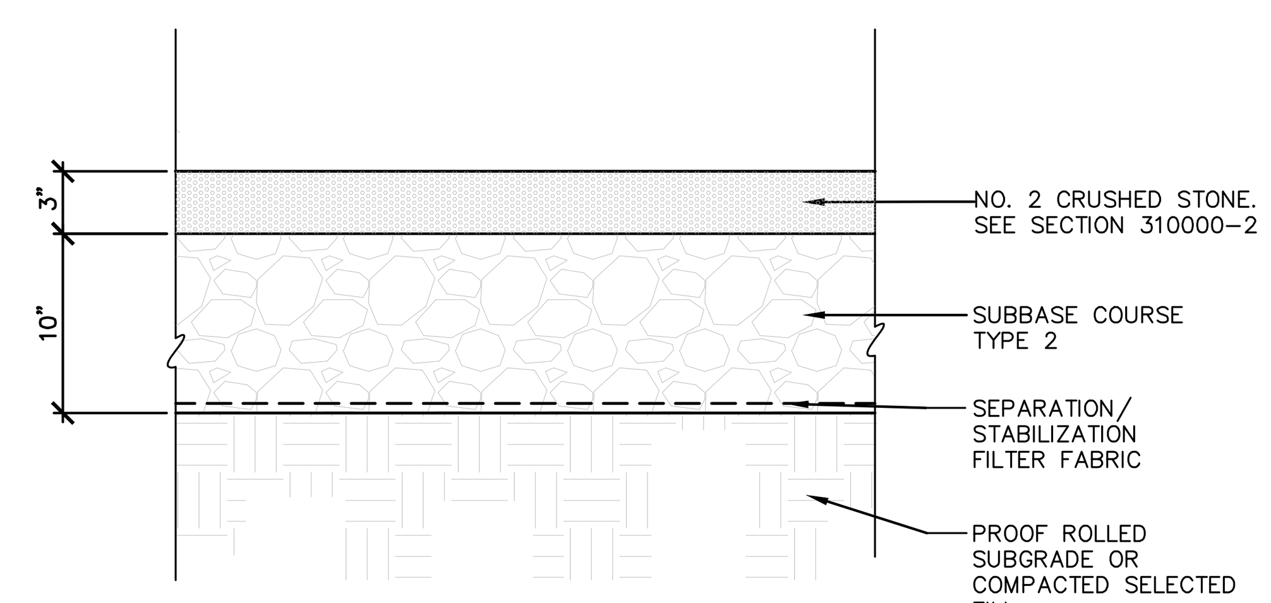
8 C-500 ASPHALT PAVEMENT OVERLAY – COLD MILLING



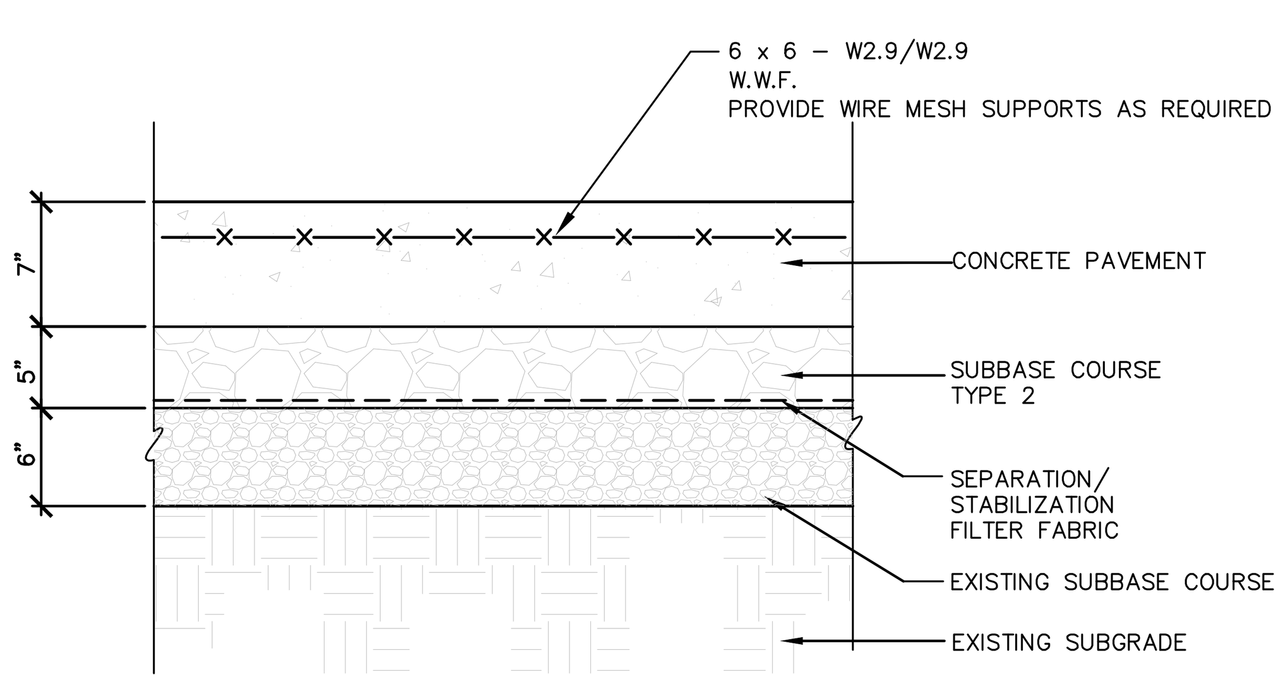
7 C-500 TRENCH SURFACE RESTORATION IN CONCRETE PAVEMENT



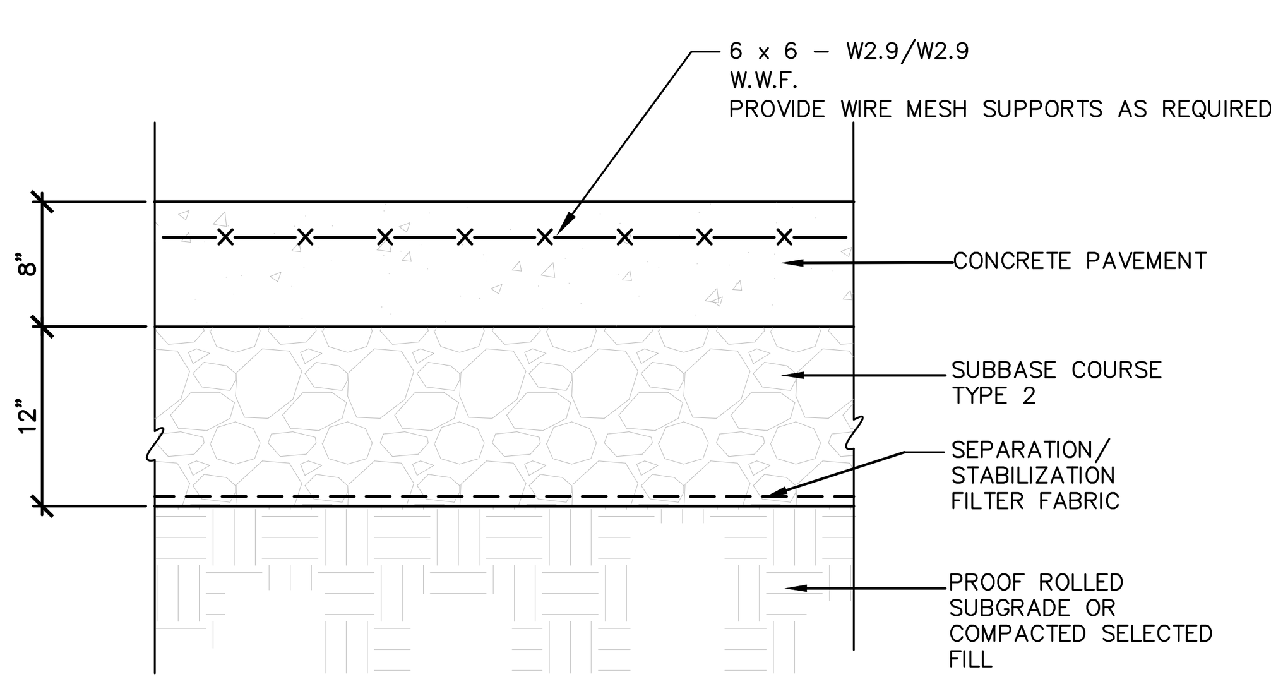
6 C-500 GRAVEL PAVEMENT PARTIAL DEPTH



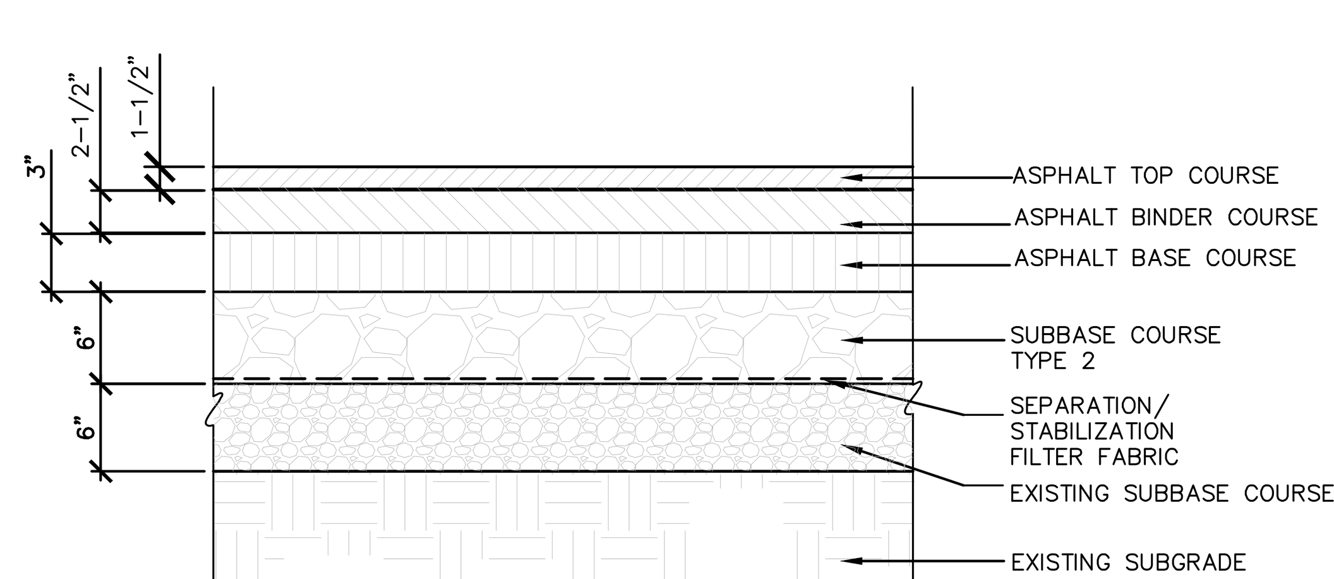
5 C-500 GRAVEL PAVEMENT FULL DEPTH



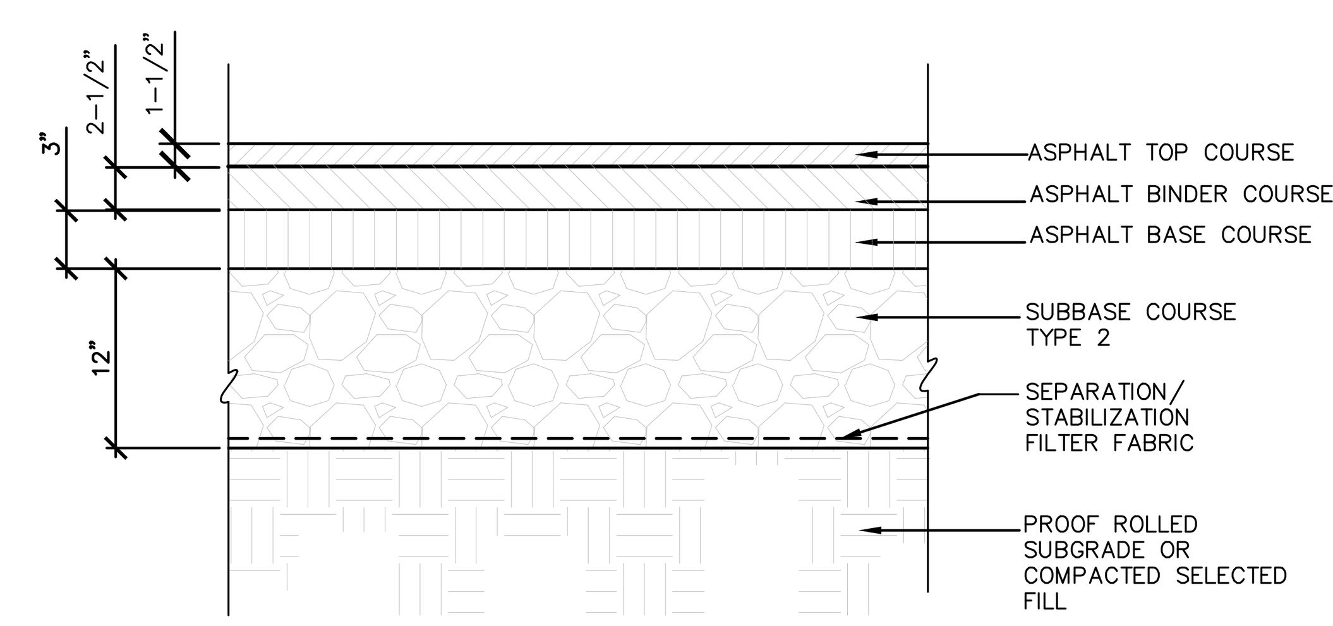
4 C-500 HEAVY DUTY – PARTIAL DEPTH CONCRETE PAVEMENT SECTION



3 C-500 HEAVY DUTY – FULL DEPTH CONCRETE PAVEMENT SECTION



2 C-500 HEAVY DUTY –PARTIAL DEPTH ASPHALT PAVEMENT SECTION



1 C-500 HEAVY DUTY – FULL DEPTH ASPHALT PAVEMENT SECTION

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

LaBella Powered by partnership.

UNIFORM CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE WRITTEN STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

EXP. 6/30/25
4 BRITISH AMERICAN BLVD.
LATHAM, NEW YORK 12110

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

CONTRACT: CONSTRUCTION

TITLE: PROVIDE PEDESTRIAN WALKWAY AND PAVEMENT RESTORATION

LOCATION: DMNA MASTEN AVENUE ARMORY
27 MASTEN AVENUE
BUFFALO, NY

CLIENT: NEW YORK STATE DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
1	04/22/2024	ADDENDUM REVISION
	12/06/2023	BID DOCUMENTS

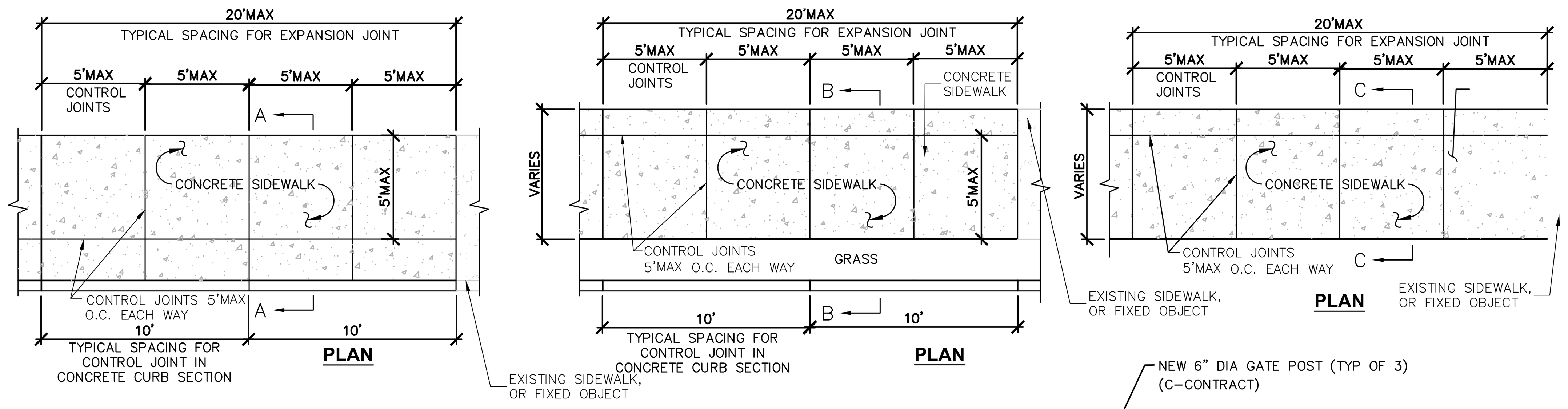
PROJECT NUMBER: 47457 - C

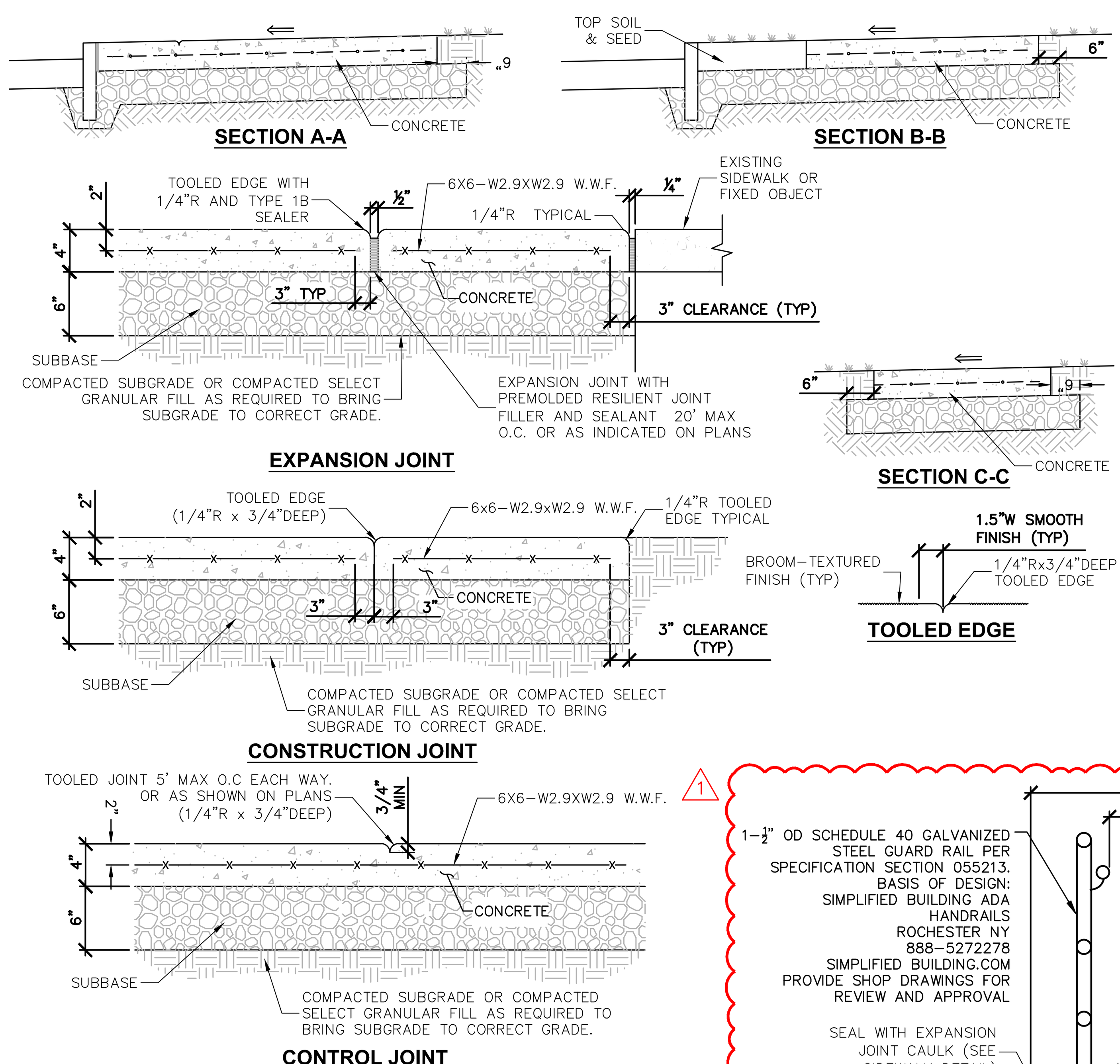
DESIGNED BY: KJW
DRAWN BY: AJR
FIELD CHECK:
APPROVED:

SHEET TITLE: SITE DETAILS

DRAWING NUMBER: C–500

SHEET 14 OF 21

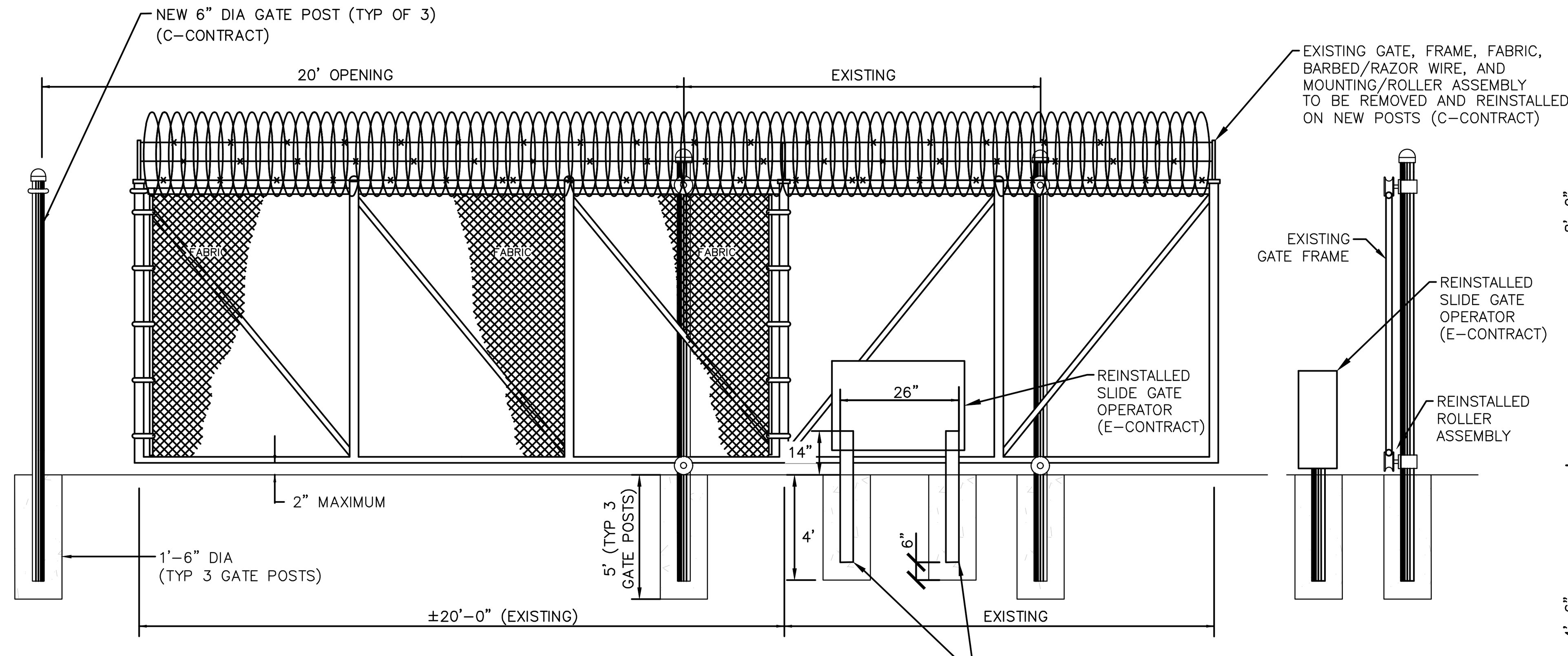




11 C-501 CONCRETE SIDEWALK DETAIL

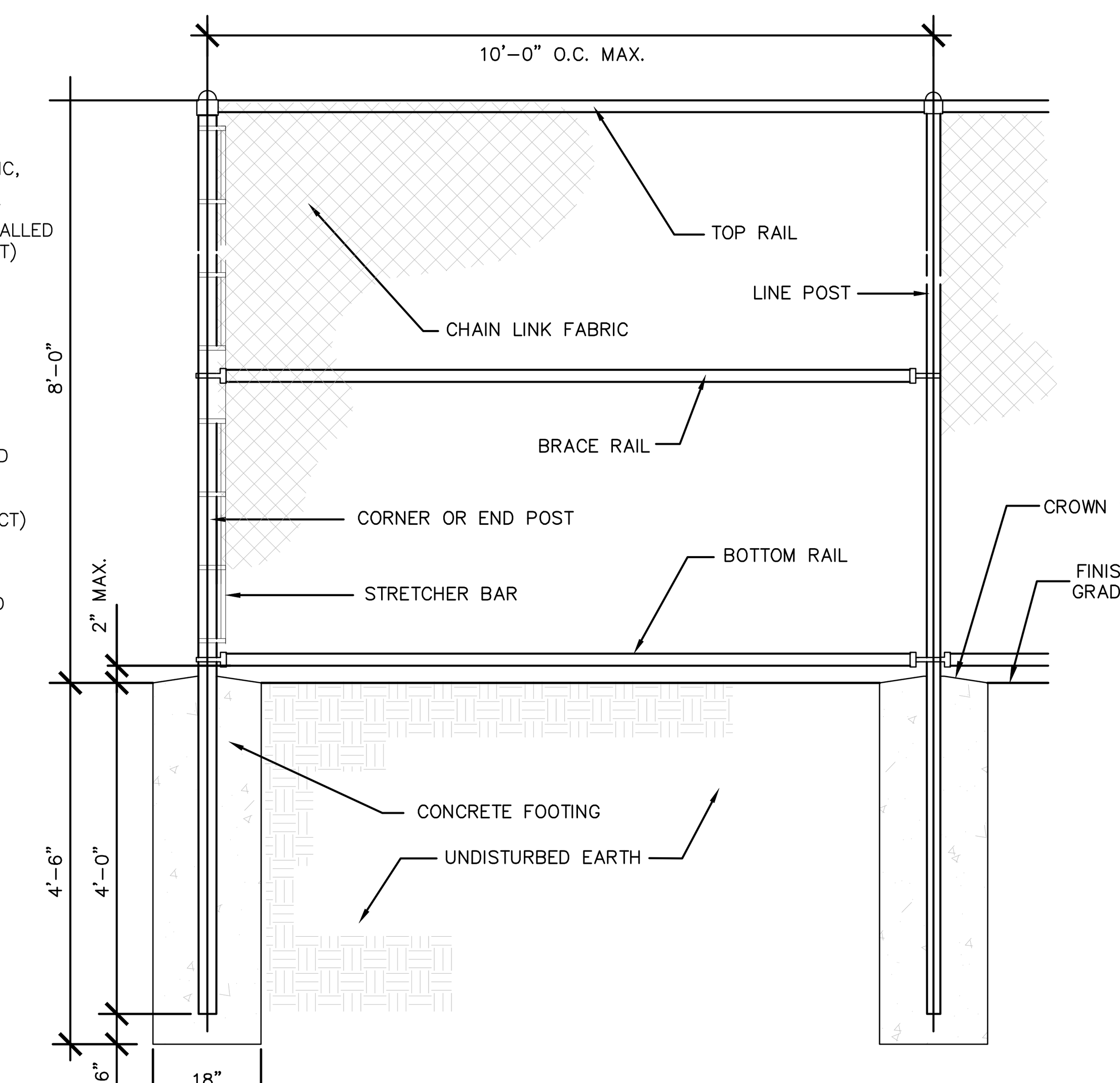
NOTES:
1. ALL EXPOSED SURFACES SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
2. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
3. JOINTS SHALL NOT BE SAW CUT.
4. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH "SUREBOND" 1100 RESIN-BASED, WATER EMULSION CONCRETE CURING COMPOUND, OR APPROVED EQUAL. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. ALL WORK SHALL CONFORM WITH AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREET 2011, ICC A117.1 2009. OR LATEST EDITION.
6. SIDEWALK WIDTH SHOWN ON THE PLANS IS TO BE MEASURED FROM THE BACK OF THE CURB.
7. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 2.0% MAX. UNLESS OTHERWISE NOTED ON PLAN.
8. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER & SEALANT AT ALL EXISTING SIDEWALKS, CURBS, FIXED OBJECTS, ETC., INCLUDING THOSE PLACED ON PREVIOUS DAYS.

NOTE:
1. ALL CONCRETE SHALL BE AT A MINIMUM COMPRESSIVE STRENGTH OF 4,500PSI. CONCRETE MUST OBTAIN A COMPRESSIVE STRENGTH OF 4,500PSI BEFORE CONTINUING WORK FROM THE NORTH TO THE SOUTH OF THE DEFINED SEQUENCING LINE.

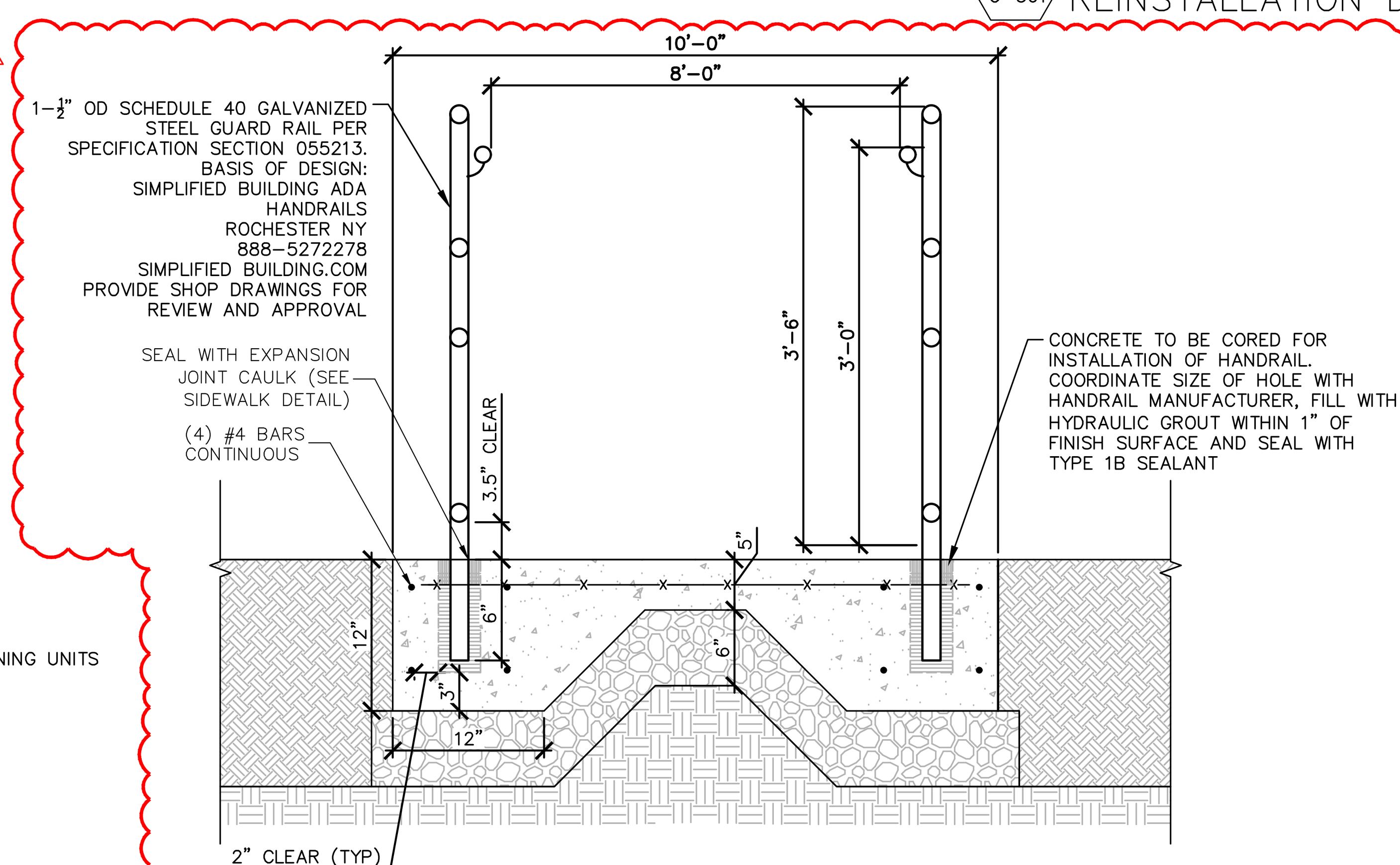


NOTE:
1. ENTRAPMENT PROTECTION SENSORS TO BE REINSTALLED PER MANUFACTURER RECOMMENDATIONS.
2. REFER TO SHEET E-130 AND E-600 FOR REINSTALLATION OF VEHICLE GATE OPERATOR EQUIPMENT (E-CONTRACT).

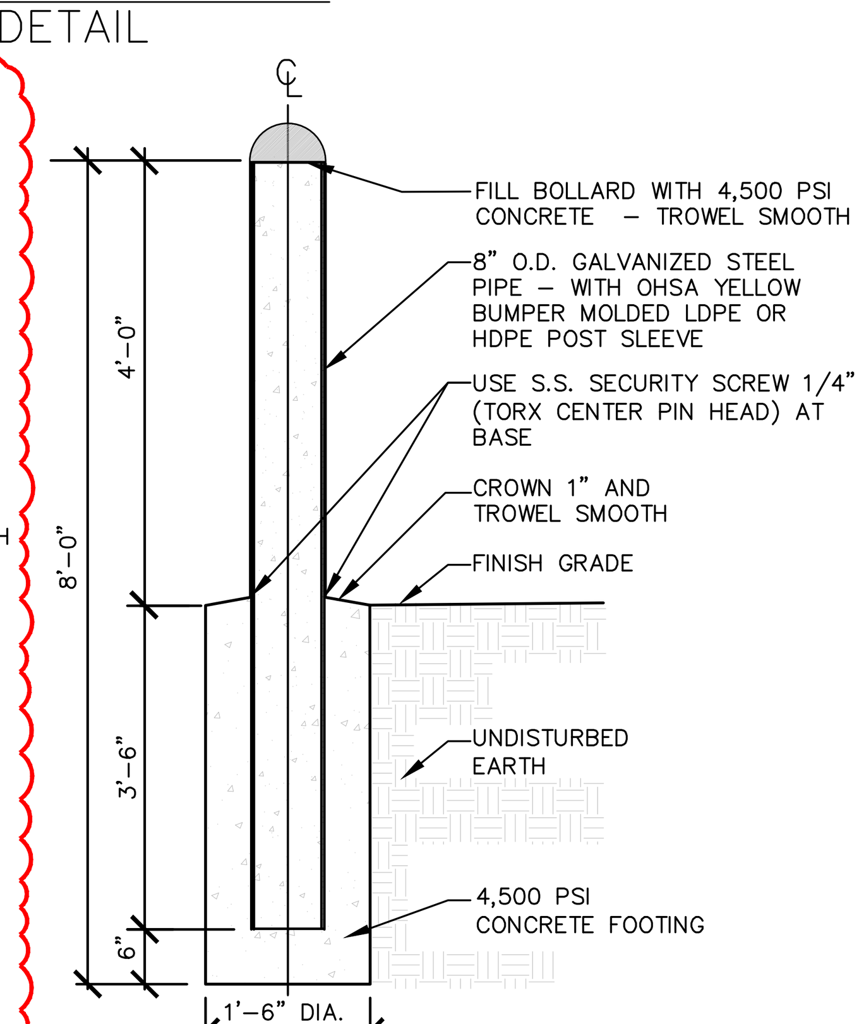
10 C-501 VEHICLE GATE REINSTALLATION DETAIL



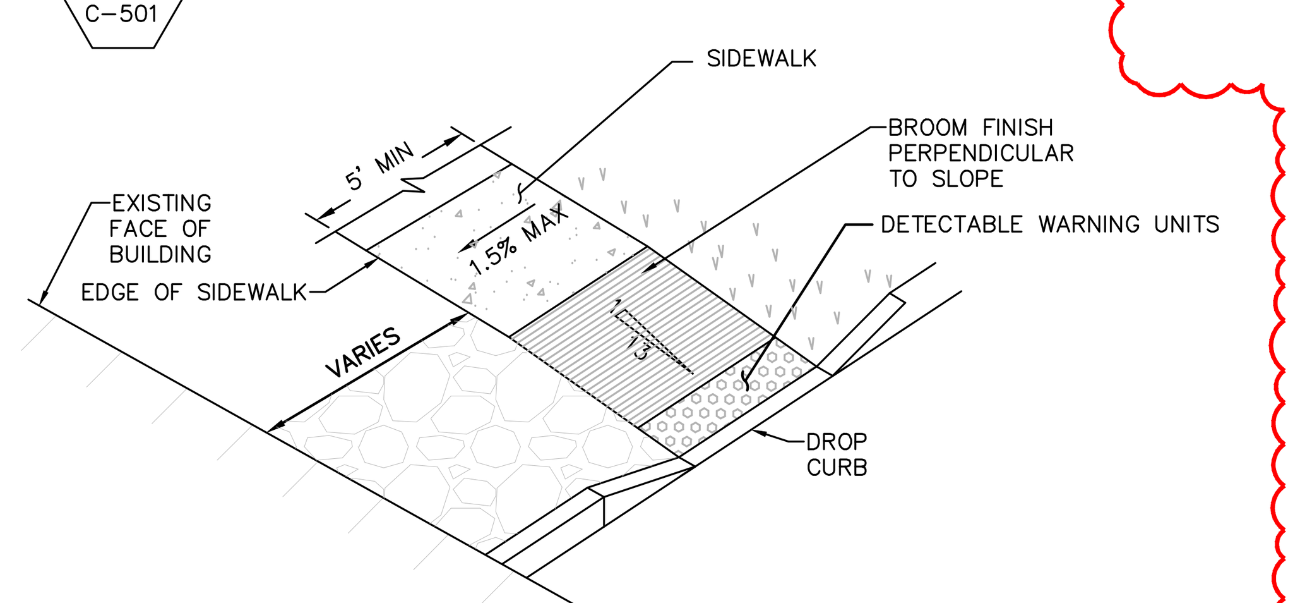
9 C-501 8'-0" HIGH CHAIN LINK FENCE ELEVATION



7 C-501 HAUNCHED SIDEWALK WITH HANDRAILS

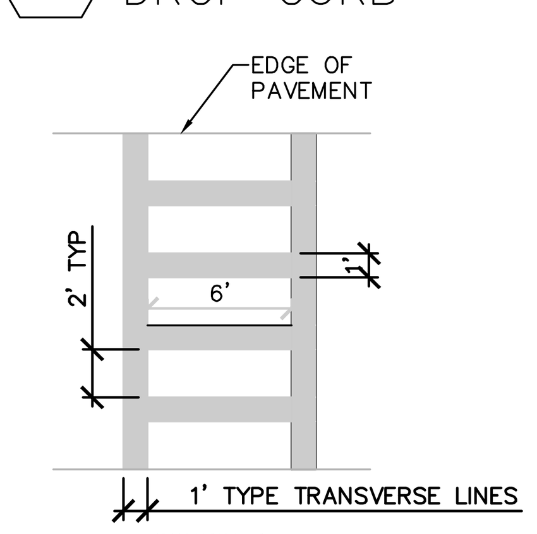


6 C-501 STEEL PIPE BOLLARD WITH POST SLEEVE



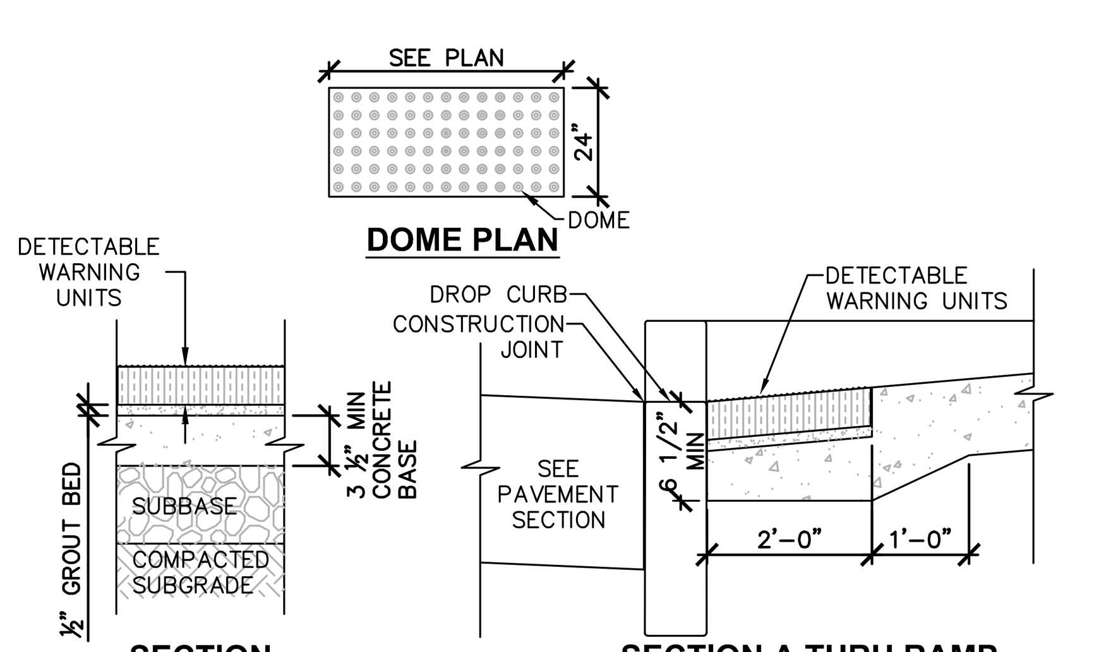
NOTES:
1. SLOPE RAMP AS INDICATED IN THE PLANS OR AS ORDERED BY THE ENGINEER.
2. DETECTABLE WARNING UNITS SHALL BE PROVIDED ON ALL RAMPS IN ACCORDANCE W/ ADA REQUIREMENTS.

8 C-501 PEDESTRIAN RAMP DROP CURB



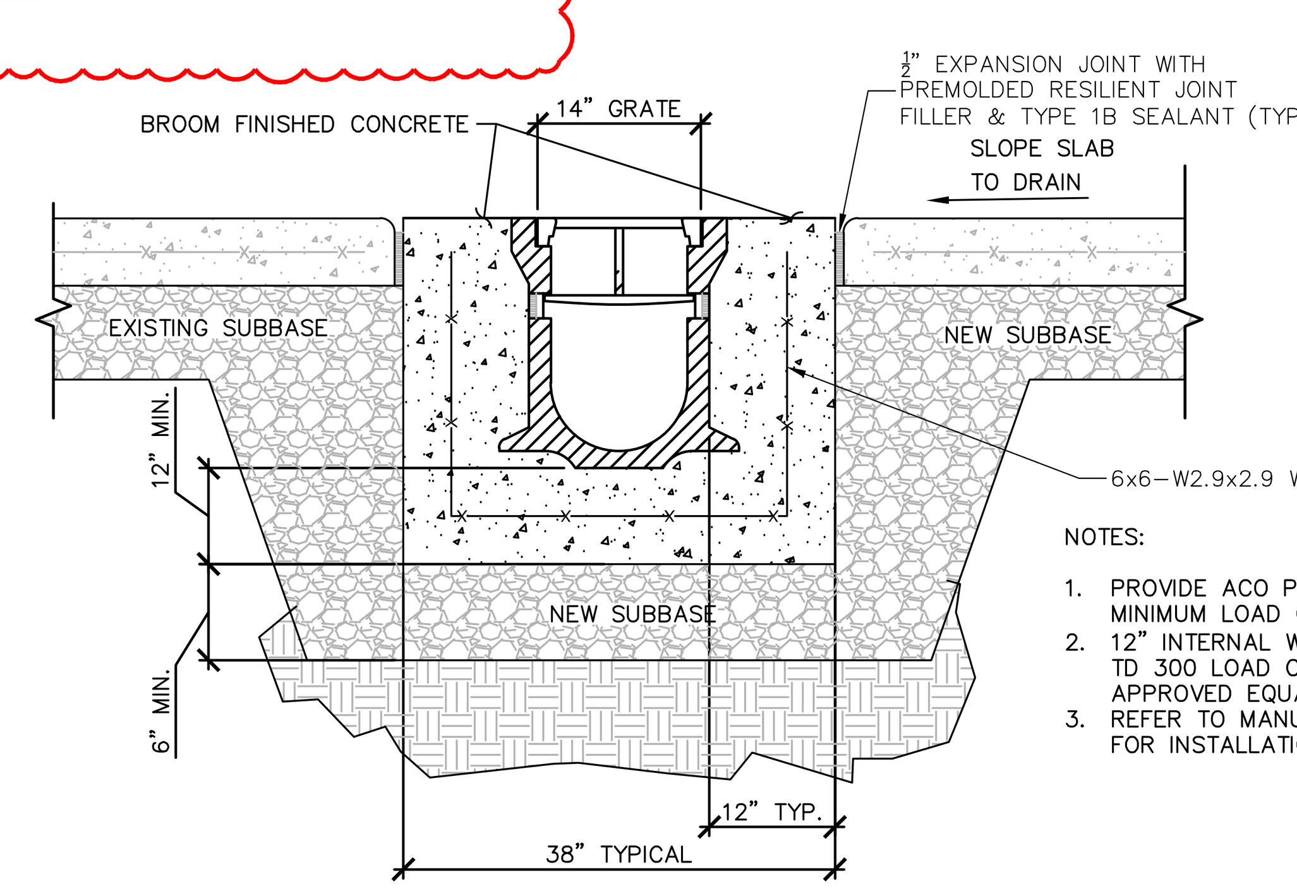
NOTES:
1. ALL CROSS WALK STRIPING SHALL BE WHITE

4 C-501 CROSSWALK MARKING PAVEMENT STRIPING



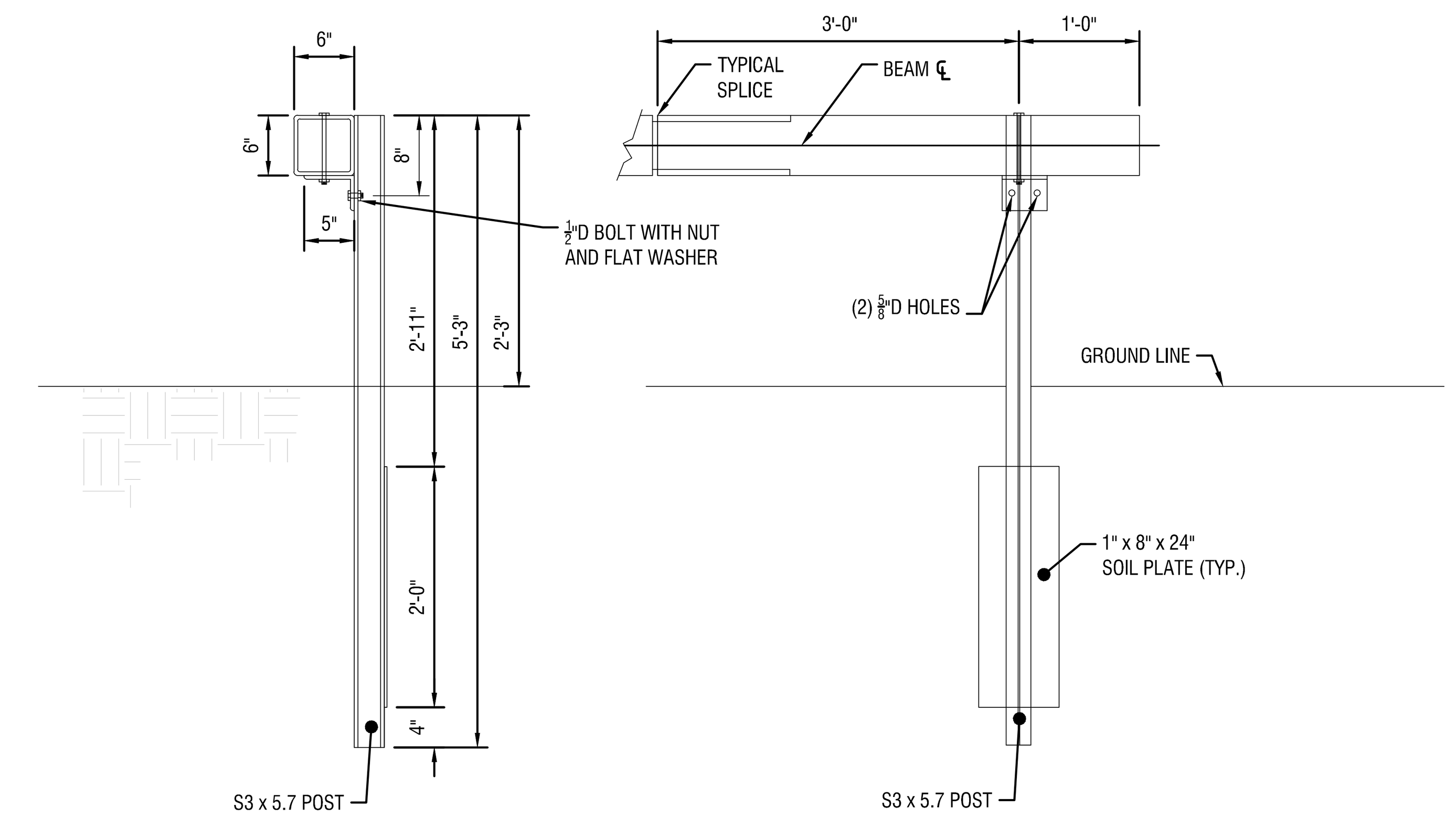
NOTES:
1. DETECTABLE WARNING UNIT SHALL BE ADA COMPLIANT, AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
2. CAST IRON 2" TERRA PAVING TYPE THREE ADA COMPLIANT WARNING PAVER.
3. COORDINATE W/ OWNER FOR COLOR.

3 C-501 DETECTABLE WARNING UNITS FOR RAMPS

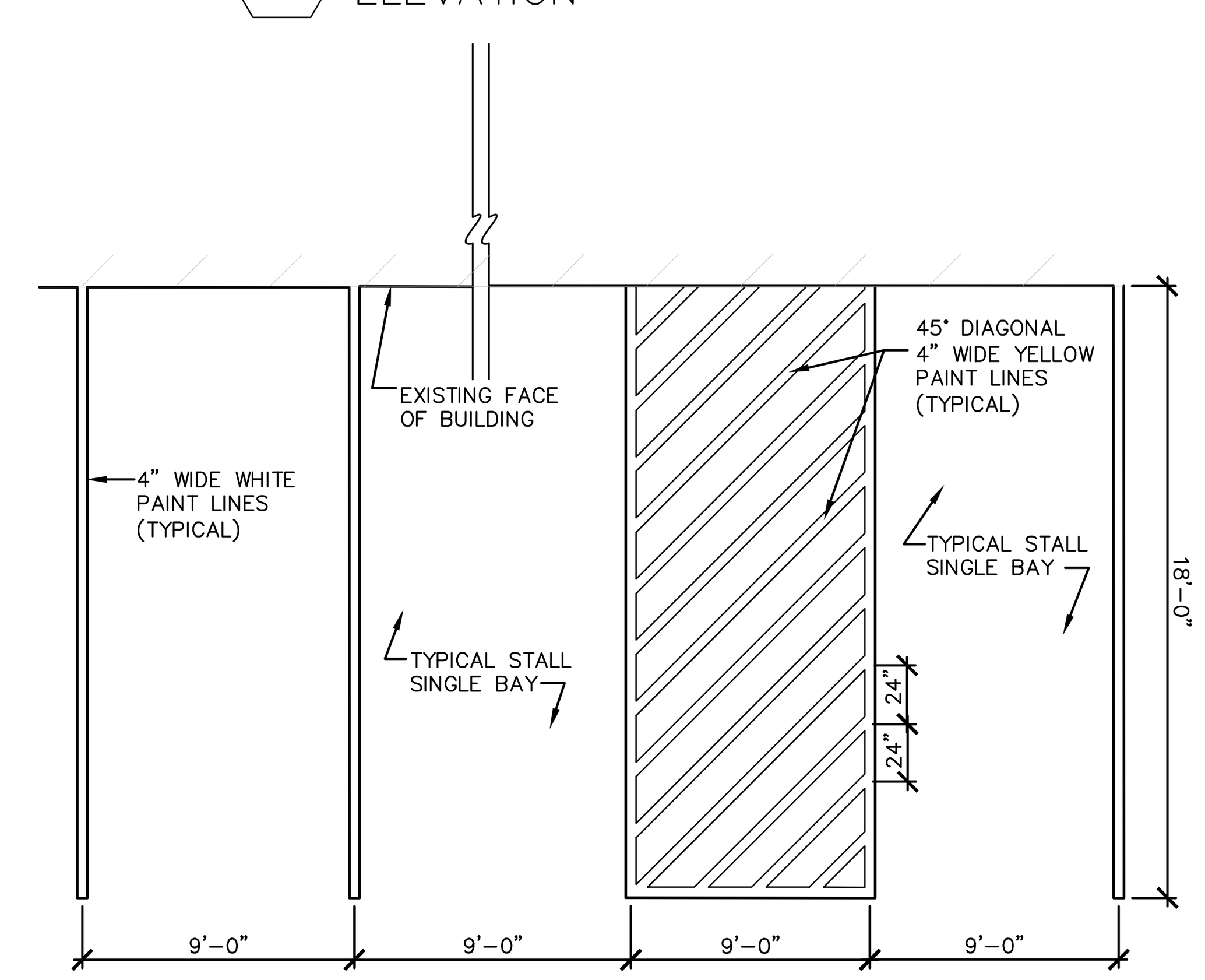


NOTES:
1. PROVIDE ACO POWER DRAIN S300K MINIMUM LOAD CLASS D
2. 12" INTERNAL WIDTH WITH GRATE TYPE TD 300 LOAD CLASS 3 DUCTILE IRON OR APPROVED EQUAL
3. REFER TO MANUFACTURER SPECIFICATION FOR INSTALLATION

2 C-501 HEAVY DUTY TRENCH DRAIN SECTION



5 C-501 BOX BEAM RAIL ELEVATION



1 C-501 PARKING STALL PAVEMENT STRIPING

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT
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STATE OF NEW YORK — WALTER JOHN — 080087 — LICENSED PROFESSIONAL ENGINEER
EXP. 6/30/25
4 BRITISH AMERICAN BLVD.
LATHAM, NEW YORK 12110

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CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

CONTRACT: CONSTRUCTION
TITLE: PROVIDE PEDESTRIAN WALKWAY AND PAVEMENT RESTORATION
LOCATION: DMNA MASTEN AVENUE ARMORY, 27 MASTEN AVENUE, BUFFALO, NY
CLIENT: NEW YORK STATE DIVISION OF MILITARY AND NAVAL AFFAIRS

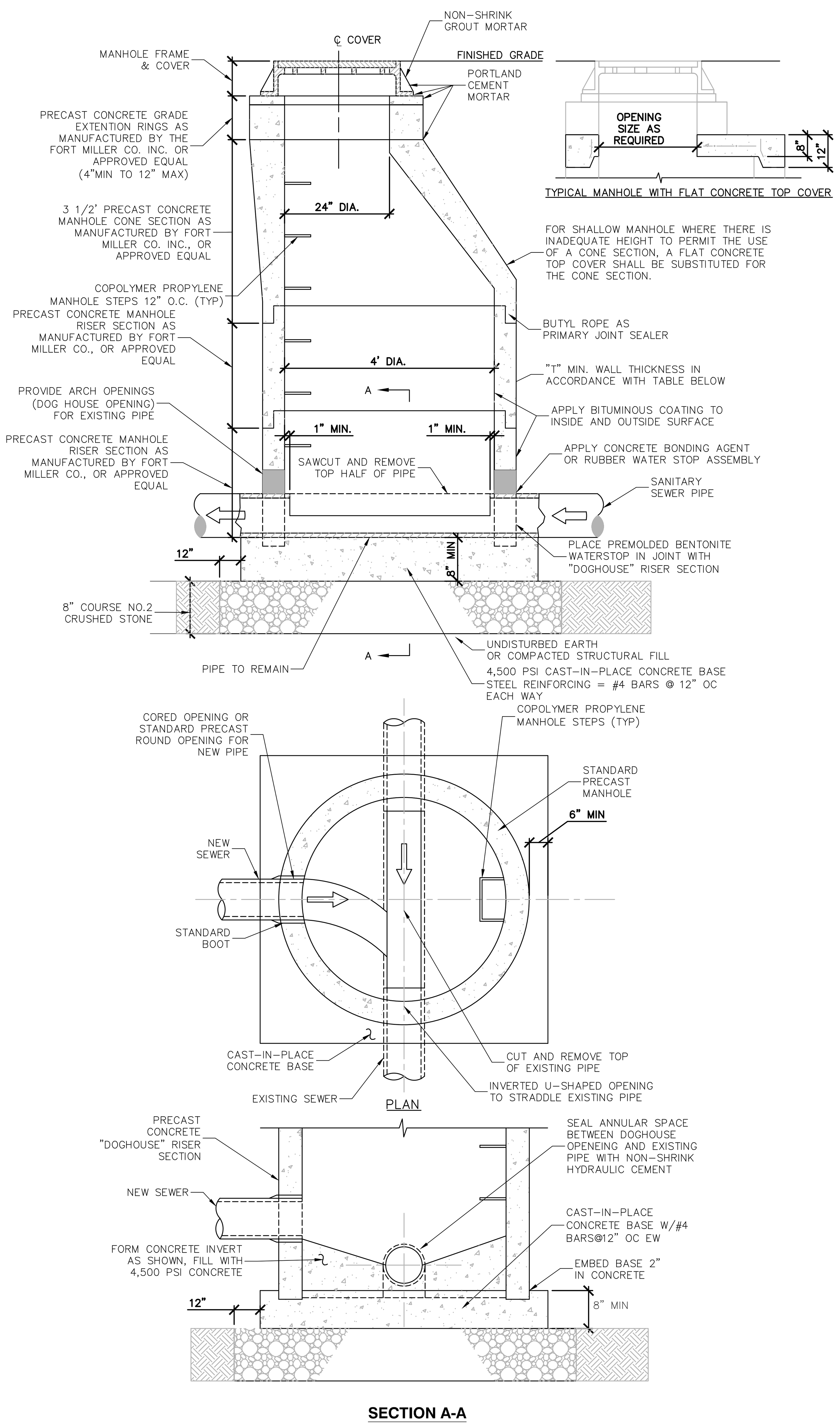
MARK	DATE	DESCRIPTION
1	04/22/2024	ADDENDUM REVISION
	12/06/2023	BID DOCUMENTS

PROJECT NUMBER: 47457 - C
DESIGNED BY: KJW
DRAWN BY: AJR
FIELD CHECK:
APPROVED:
SHEET TITLE: SITE DETAILS
DRAWING NUMBER: C-501
SHEET 15 OF 21

Apr 17,2024 – 11:08am \\projects5\PNZ3\NY50GS\2223044 – SE283 Term Contract\2223044.01 – Provide Pedestrian Walkway Restoration\06_Drawings\Civil\47457_C-500-502_Site-Details.dwg
36x24 PLOT SHEET

NOTE:

1. ALL CONCRETE SHALL BE AT A MINIMUM COMPRESSIVE STRENGTH OF 4,500PSI. CONCRETE MUST OBTAIN A COMPRESSIVE STRENGTH OF 4,500PSI BEFORE CONTINUING WORK FROM THE NORTH TO THE SOUTH OF THE DEFINED SEQUENCING LINE.

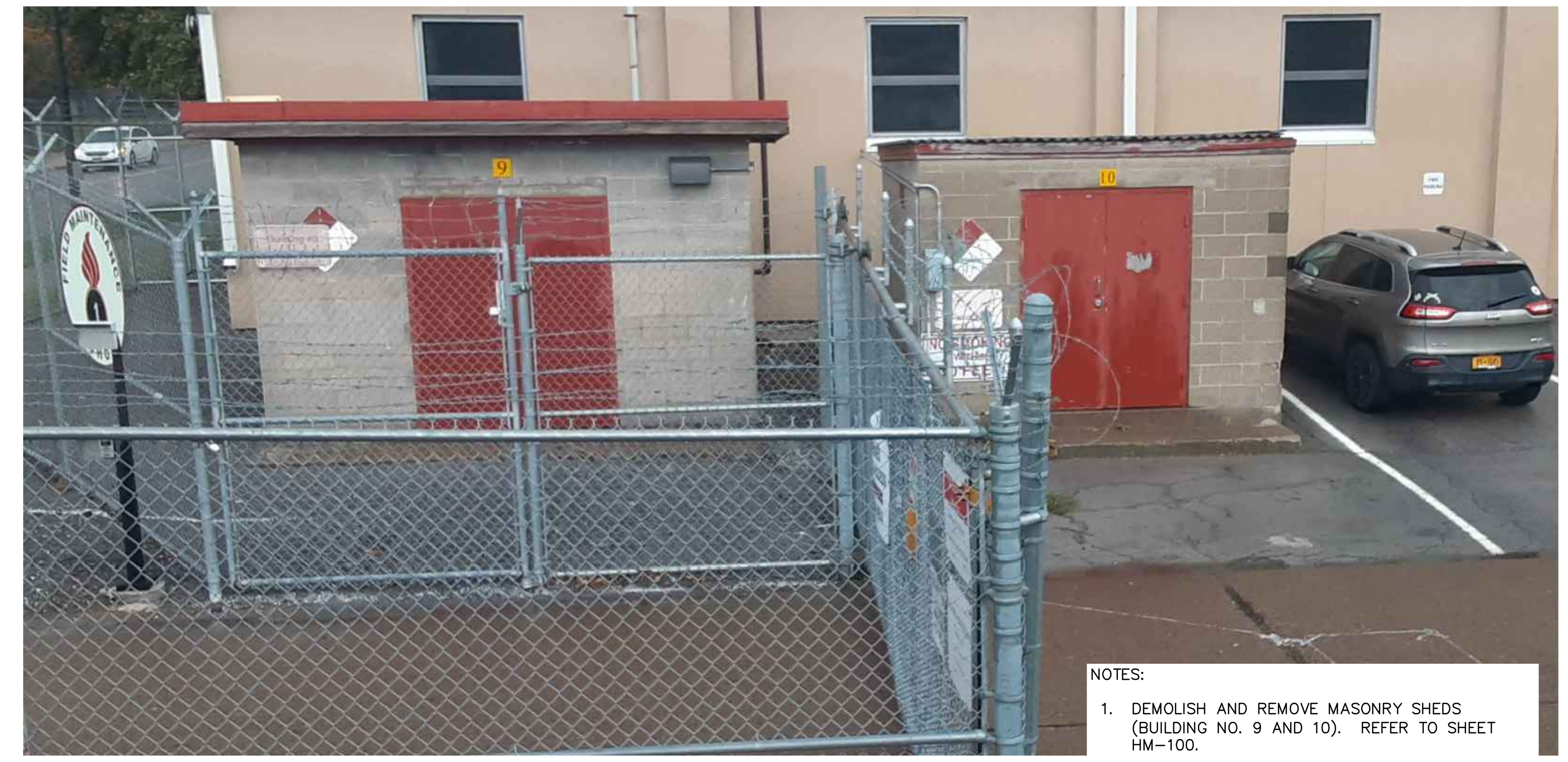


USE ONLY WET-CAST UNITS. DRY-CAST NOT ACCEPTABLE

NOTES:

1. INVERT SHALL BE FILLETED.
2. REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED NEW YORK STATE
3. PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.
4. CONCRETE TO TEST 4,500 psi. AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478.
5. BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.
6. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

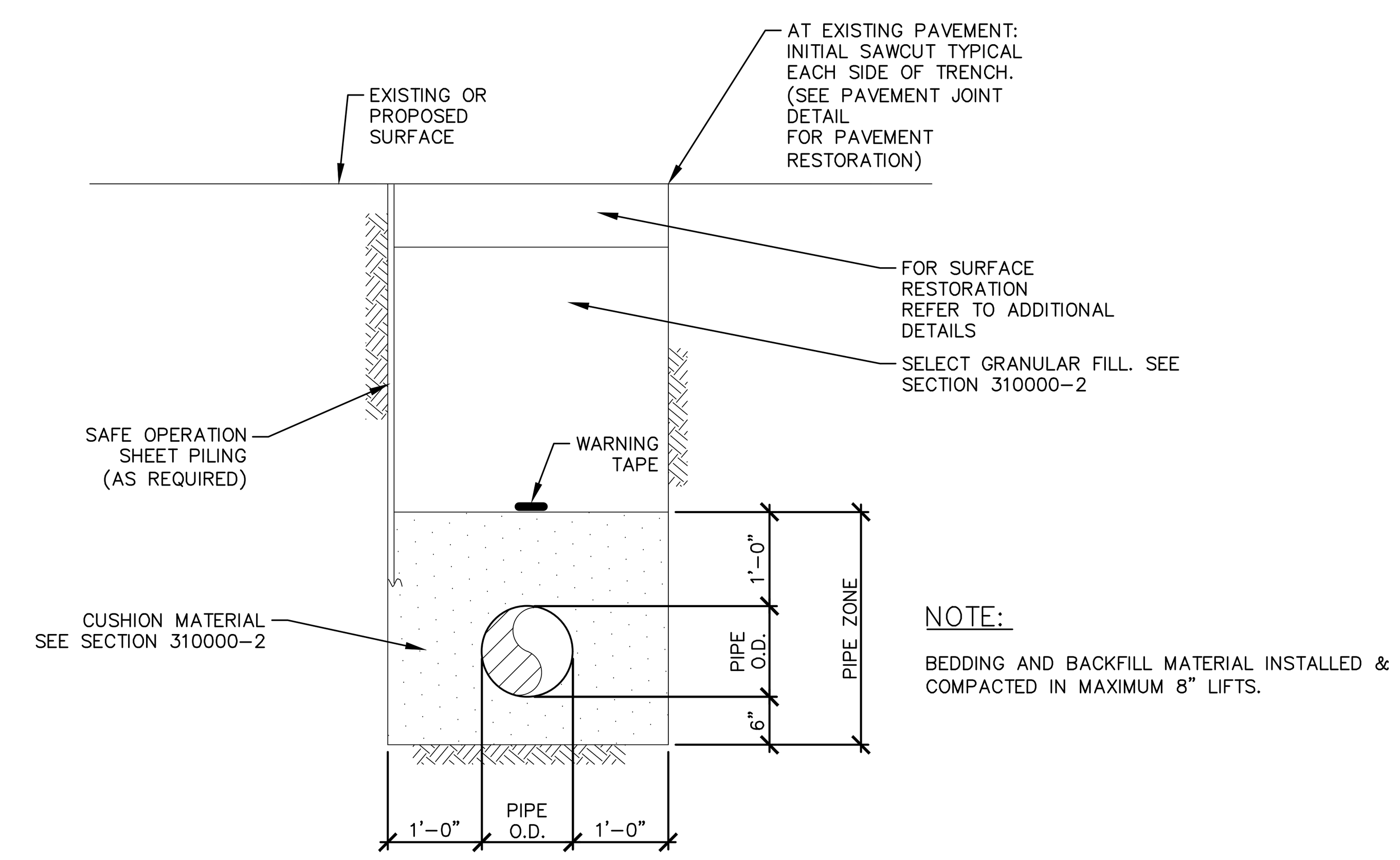
3 / C-502 — INSERTION MANHOLE DETAIL



NOTES:

1. DEMOLISH AND REMOVE MASONRY SHEDS (BUILDING NO. 9 AND 10). REFER TO SHEET HM-100.
2. PHOTOGRAPHS PROVIDED IN THE CONTRACT DOCUMENTS ARE FOR REFERENCE PURPOSES ONLY. THESE PHOTOS REPRESENT THE CONDITIONS THAT WERE PRESENT AT THE FACILITY AT THE TIME THEY WERE TAKEN AND MAY NOT ACCURATELY REPRESENT CURRENT CONDITIONS.

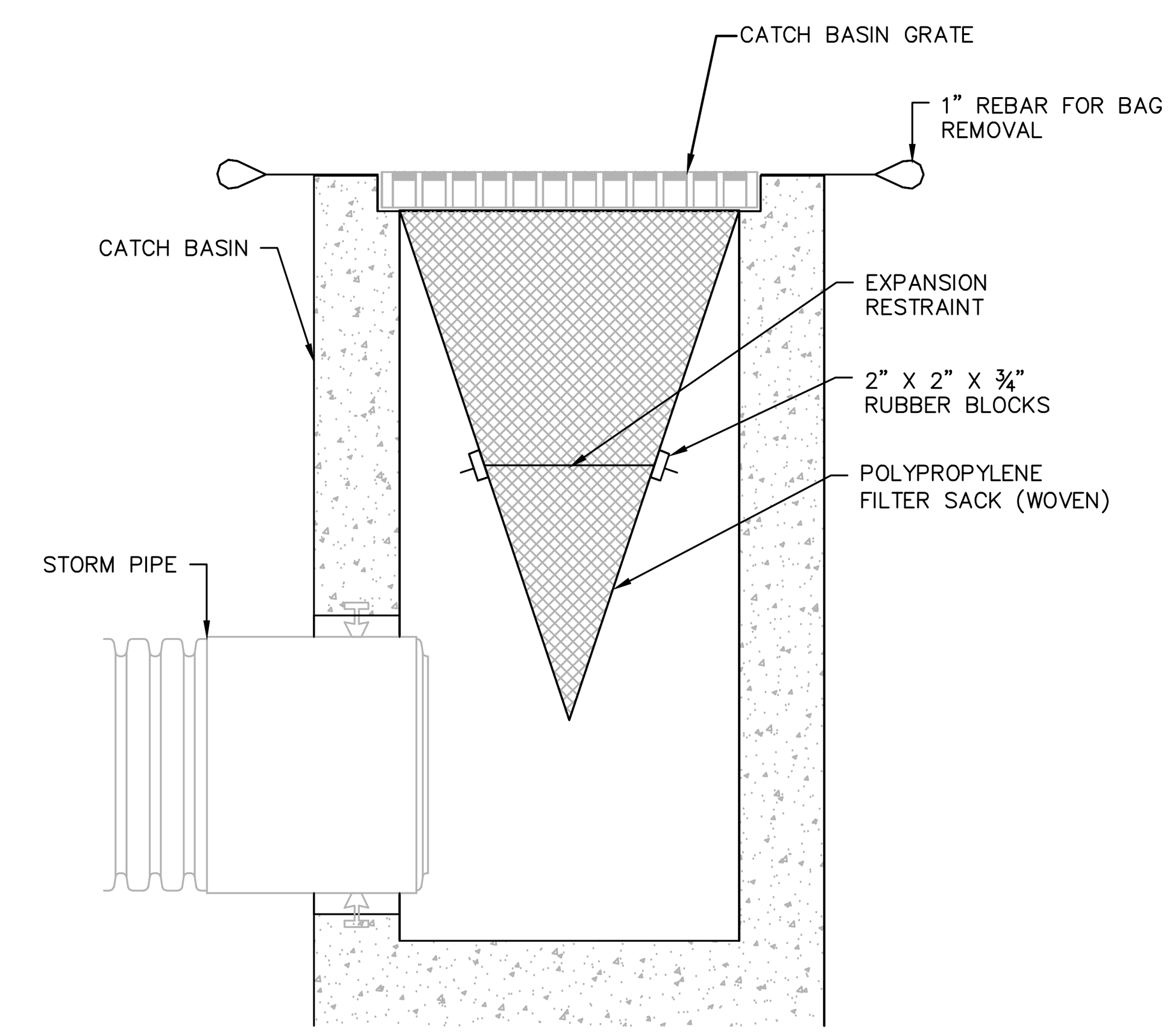
6 / C-502 — EXISTING SHEDS PHOTO



NOTE:

BEDDING AND BACKFILL MATERIAL INSTALLED & COMPACTED IN MAXIMUM 8" LIFTS.

5 / C-502 — STORM/SANITARY SEWER TRENCH AND PIPE BEDDING SECTION



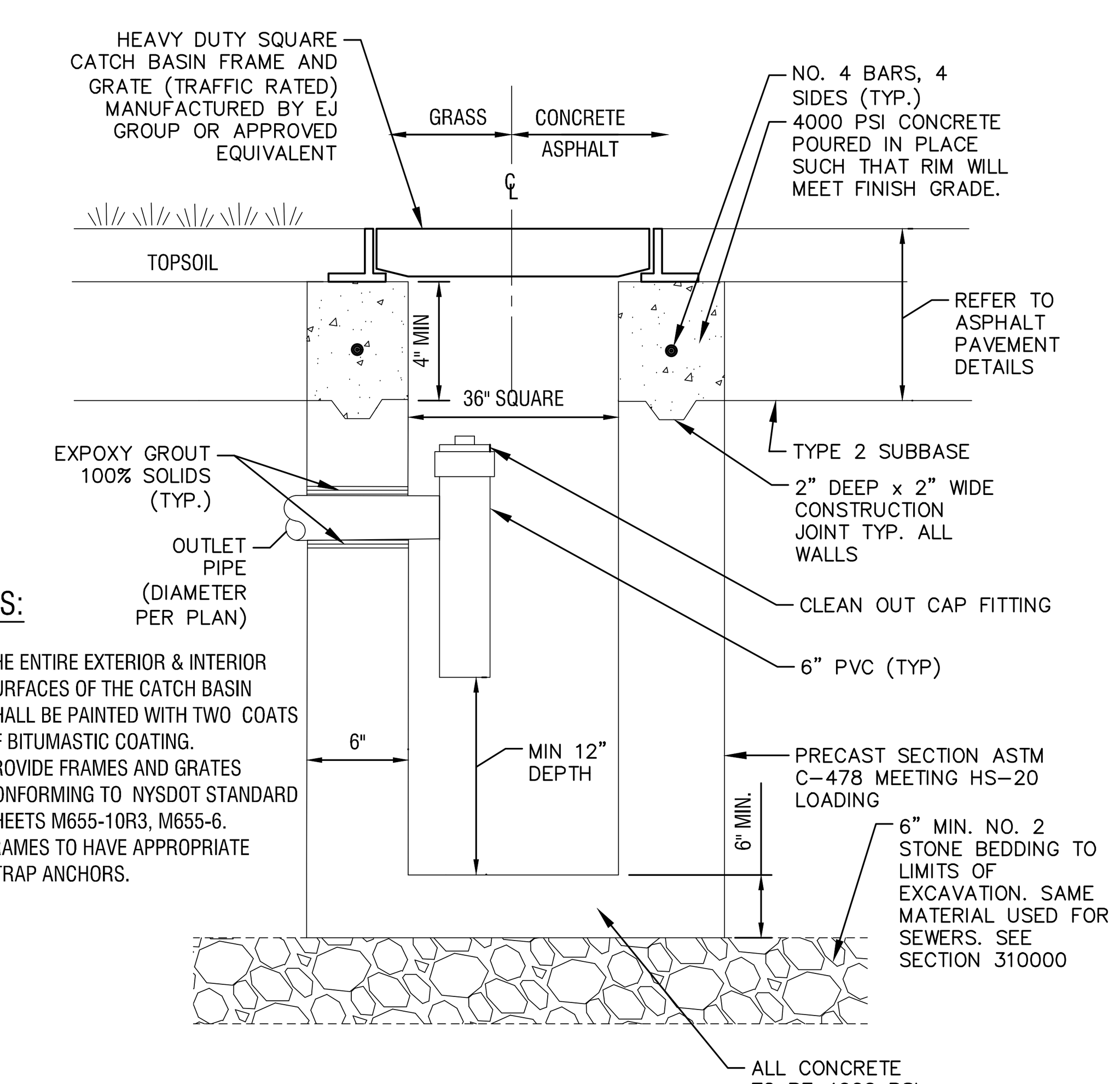
WOVEN POLYPROPYLENE SACK

INSTALLATION DETAIL

NOTES:

1. SIZE OF POLYPROPYLENE FILTER SACKS TO BE COORDINATED WITH MANUFACTURER.
2. INSTALL PER MANUFACTURER RECOMMENDATIONS.

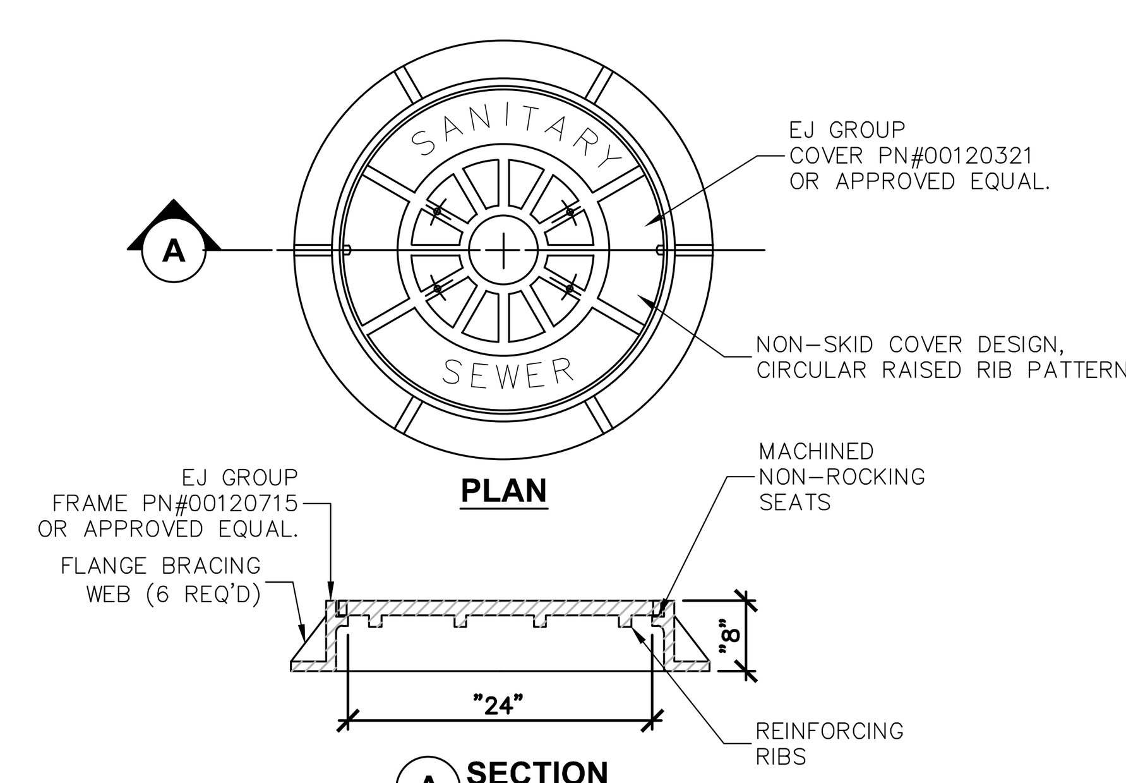
4 / C-502 — CATCH BASIN INSERT INLET PROTECTION SECTION



NOTES:

1. THE ENTIRE EXTERIOR & INTERIOR SURFACES OF THE CATCH BASIN SHALL BE PAINTED WITH TWO COATS OF BITUMASTIC COATING.
2. PROVIDE FRAMES AND GRATES CONFORMING TO NYSDOT STANDARD SHEETS M655-10R3, M655-6.
3. FRAMES TO HAVE APPROPRIATE STRAP ANCHORS.

2 / C-502 — CATCH BASIN SECTION



NOTE:

1. FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICLE LOADING AND 25% IMPACT.

1 / C-502 — HEAVY DUTY STANDARD CAST IRON MANHOLE COVER

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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DRAWN BY:	AJR
FIELD CHECK:	
APPROVED:	

SHEET TITLE: SITE DETAILS

DRAWING NUMBER: C-502

SHEET 16 OF 21

36x24 PLOT SHEET

Apr 17,2024 – 11:08am
\\projects5\PNZ3\NYSOGS\2223044 – SE283 Term Contract\2223044.01 – Provide Pedestrian Walkway Restoration\06_Drawings\Civil\47457_C-500-502_Site-Details.dwg

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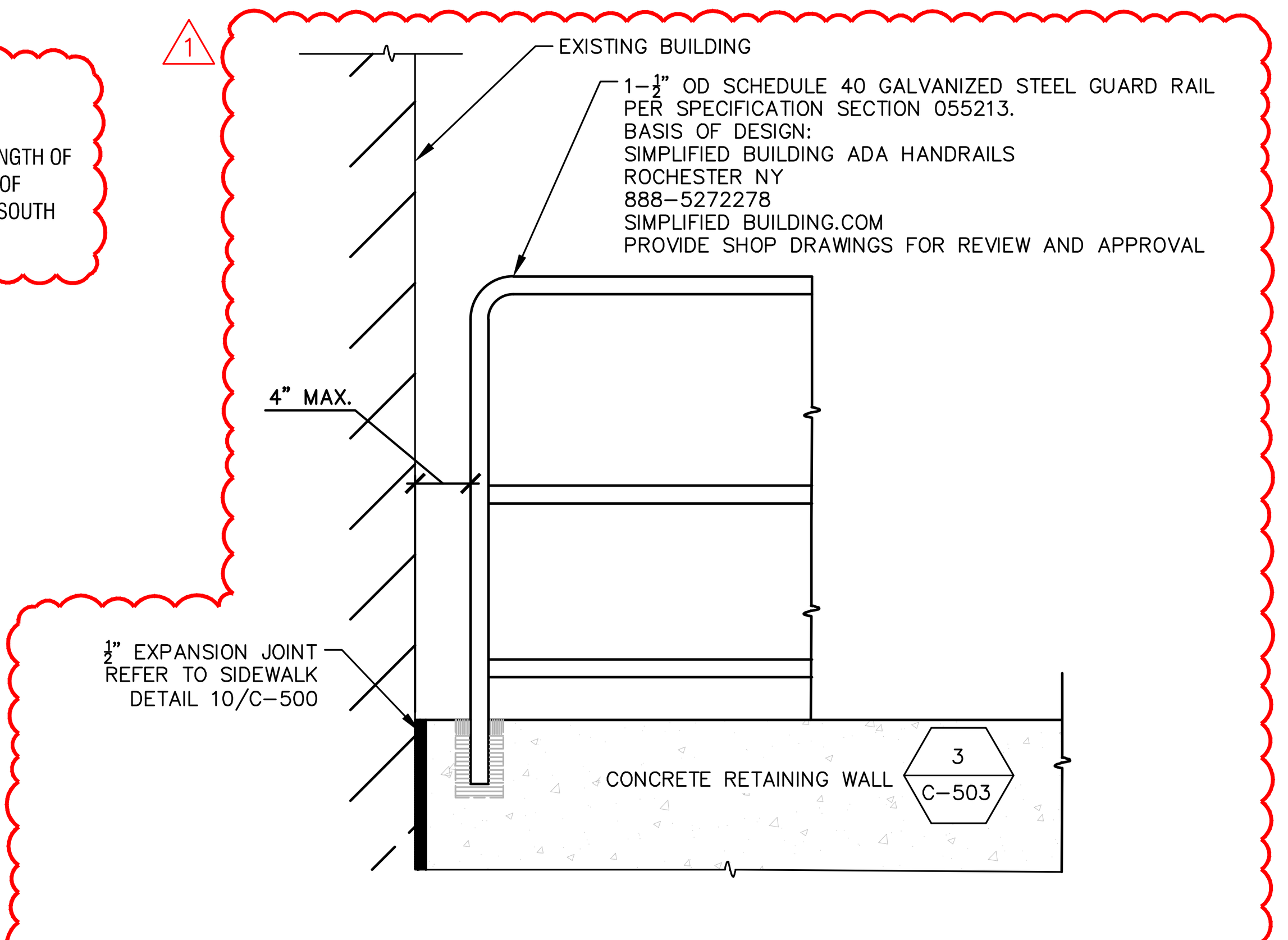
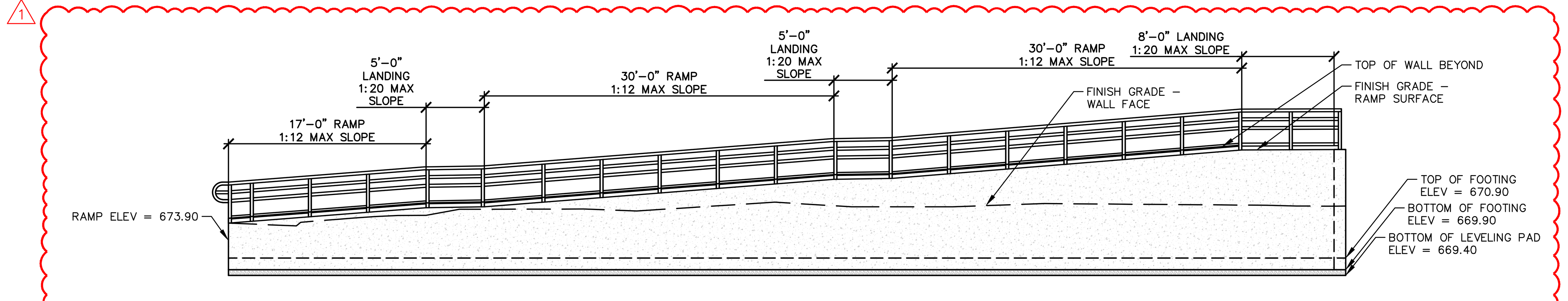
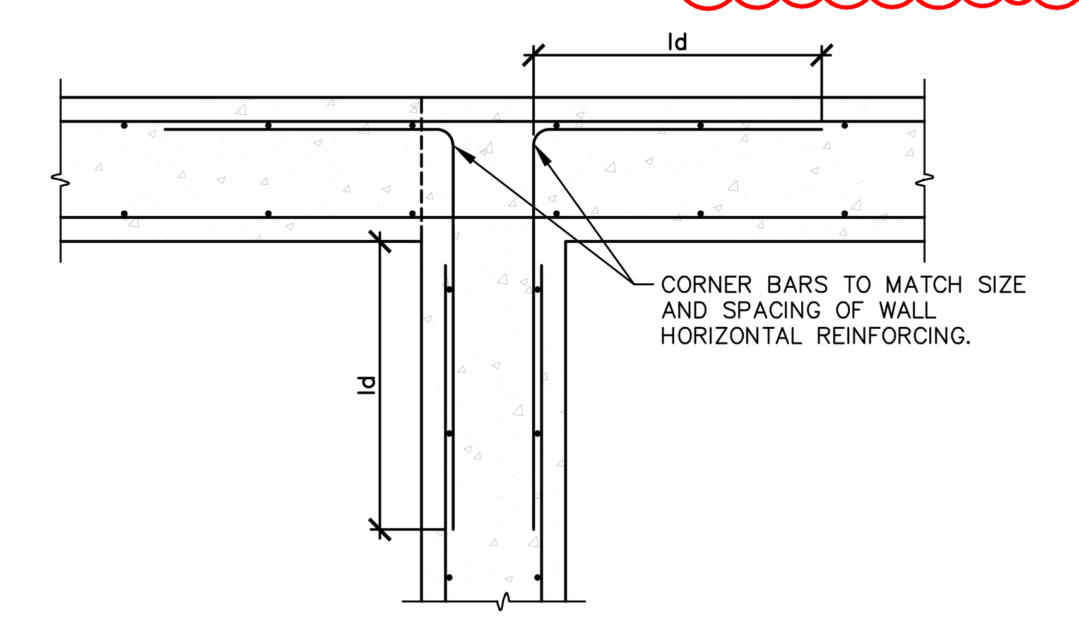


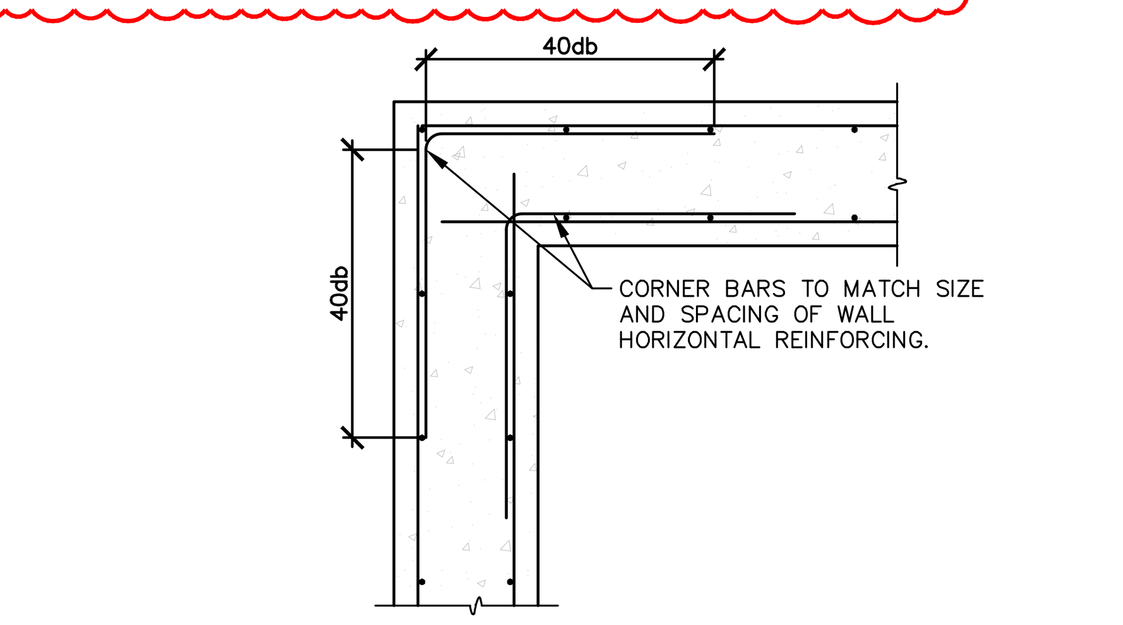
8 C-503 VERTICAL EXPANSION JOINT AT BUILDING DETAIL



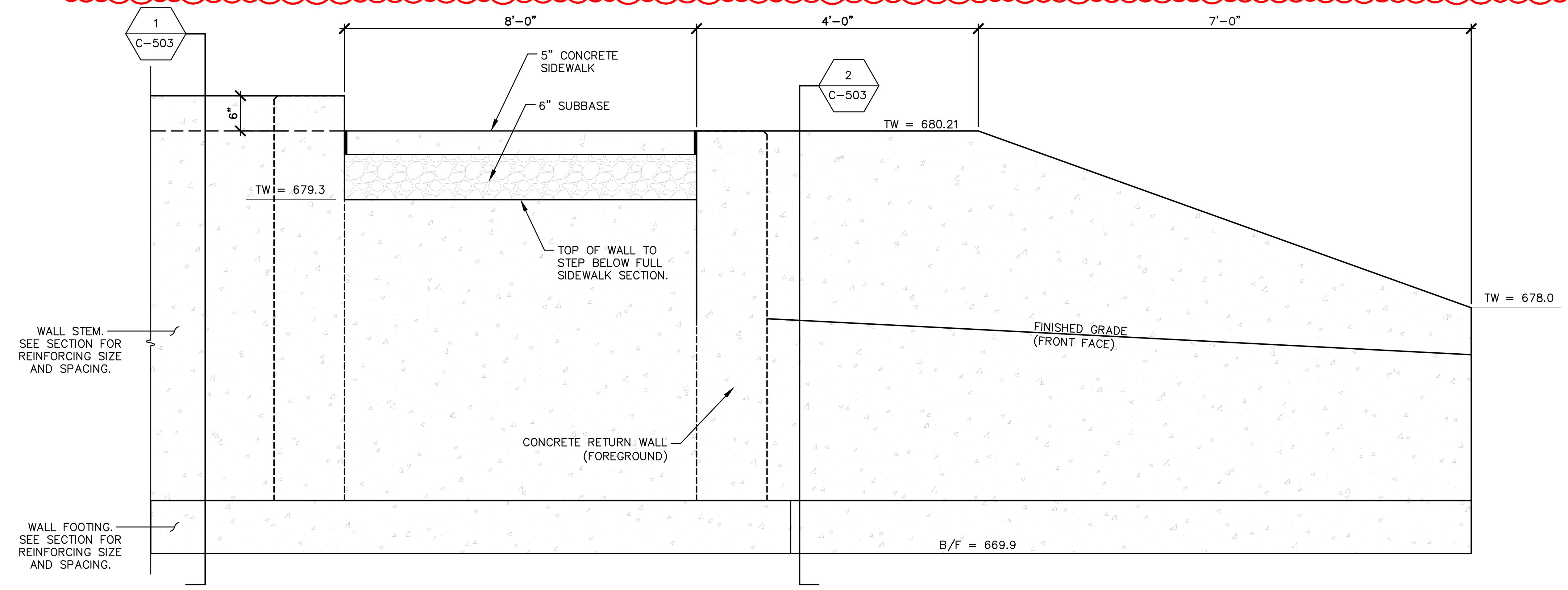
7 C-503 RAMP ELEVATION VIEW



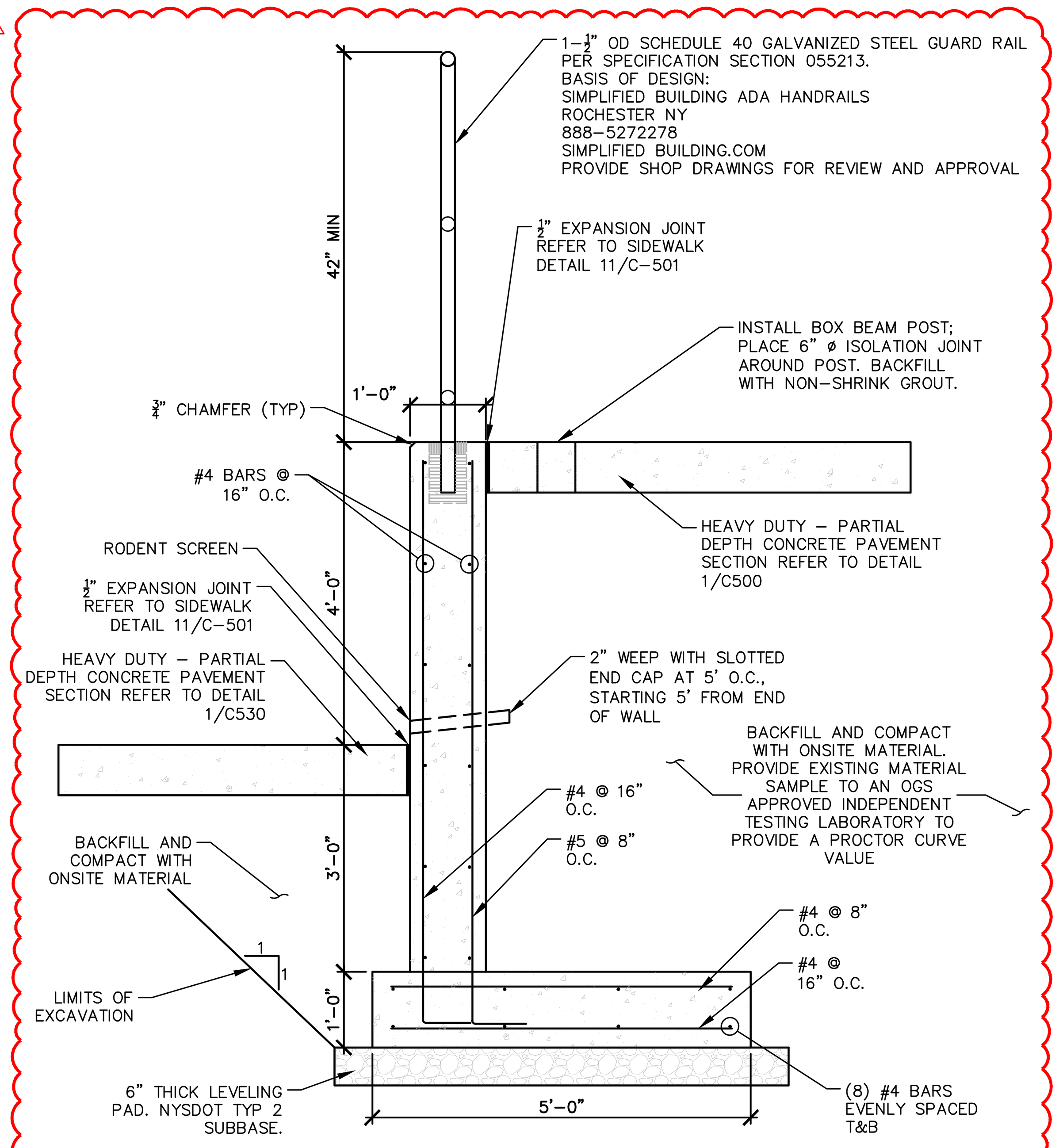
6 C-503 TYPICAL CONCRETE WALL INTERSECTION DETAIL



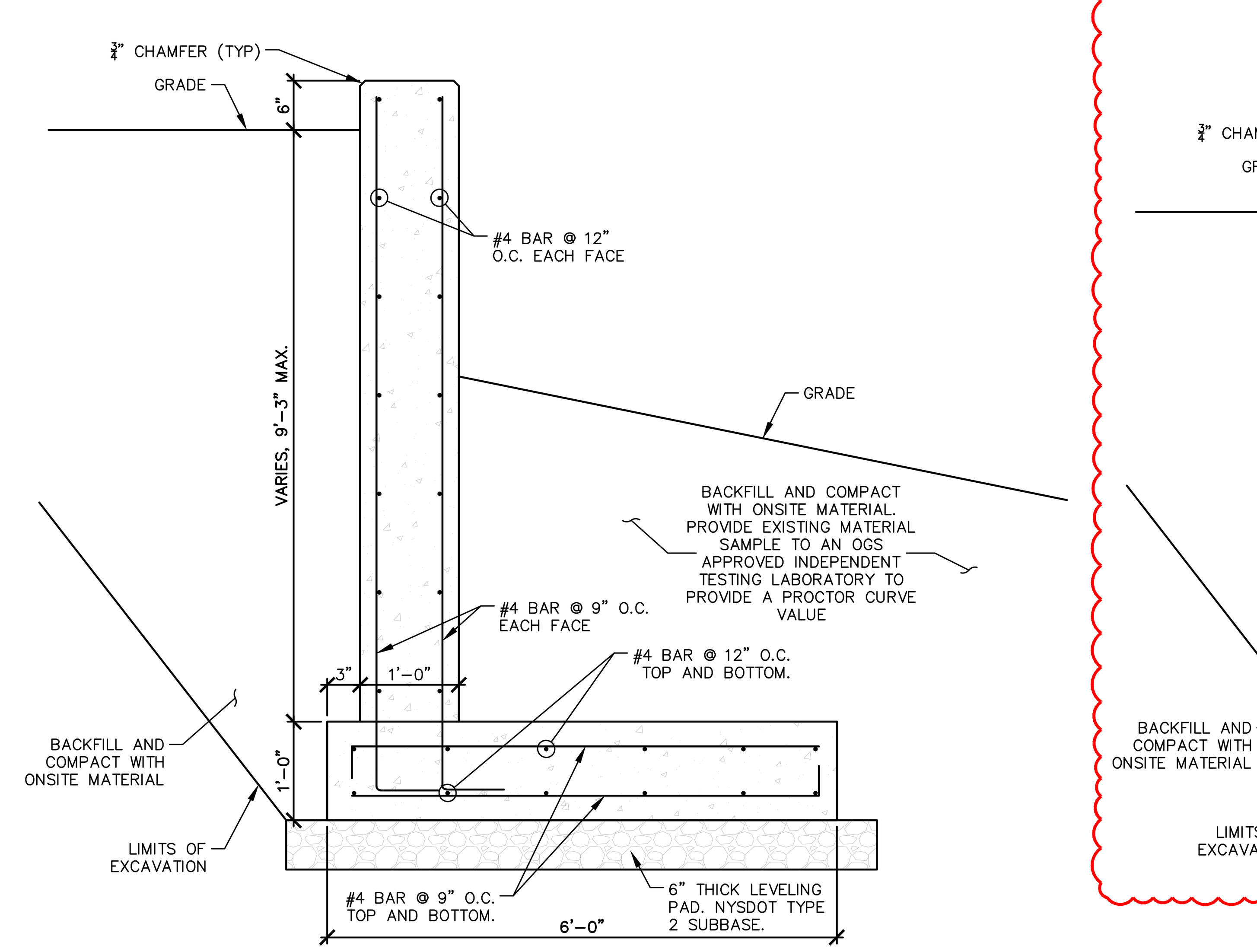
5 C-503 TYPICAL CONCRETE WALL CORNER DETAIL



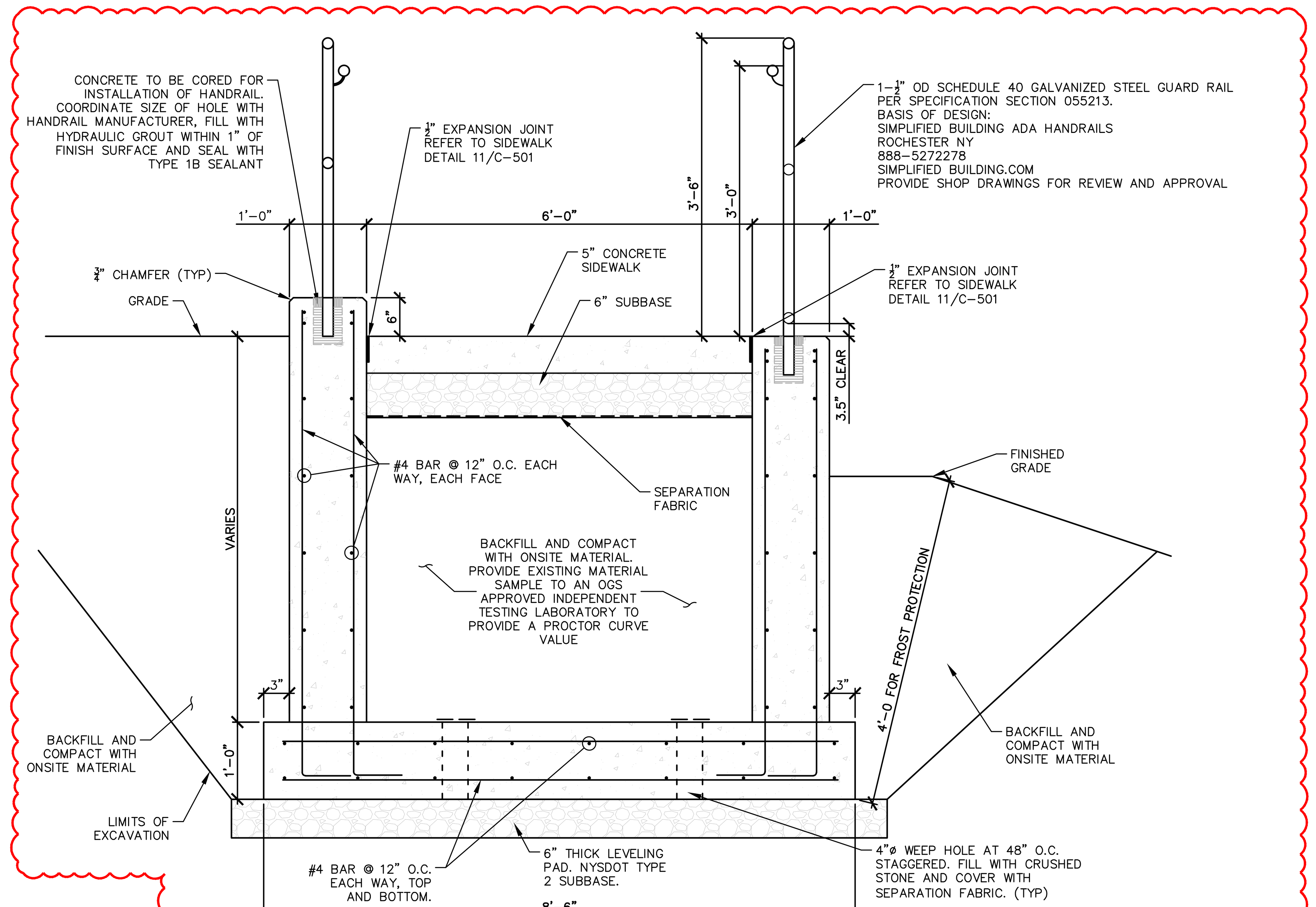
4 C-503 CONCRETE RAMP SECTION (PARTIAL)



3 C-503 CONCRETE RETAINING WALL SECTION



2 C-503 CONCRETE RETAINING WALL EXTENSION AT RAMP SECTION



1 C-503 CONCRETE RAMP SECTION

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