

GENERAL NOTES

- 1. THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS.
2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING. ANY OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
4. IN CASE OF CONFLICT, NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
5. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS, WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
6. EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED.
7. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
8. THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION.
9. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
10. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER.
11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.
13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER.
14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK.
15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
16. Contractor shall provide adequate shoring during spall repairs; amount of shoring shall be determined by the contractor.

DESIGN CRITERIA

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED UPON THE FOLLOWING CRITERIA:
1. CODE: IBC 2018
2. LATERAL LOADS:
1. WIND: 155 MPH
WIND SPEED (Vws)
EXPOSURE CATEGORY: B
INTERNAL PRESSURE COEFFICIENT: PLUS/MINUS 0.18
2. SEISMIC:
IMPORTANCE FACTOR: 1.00
BUILDING CATEGORY: II

NOTES

- BASE PROPOSAL
All labor, materials, services, and equipment necessary for completion of the work shown on the drawings and in the specifications except the work indicated by the alternates. The Base Proposal shall constitute the total lump sum of the following listed items.
BASE BID - Structural concrete Repair and reinforcement: The total Work involved with the structural repair of cracked, spalling, located at the base of the steel columns, (concrete pedestals) or as indicated on the contract documents and supplemental spall repair list. Items listed on the Pedestal Schedule
BID ALTERNATE- Structural concrete Repair and reinforcement: The total Work involved with the structural repair of cracked, spalling, located at the base of the steel columns, (concrete pedestals) or as indicated on the contract documents and supplemental spall repair list. Items listed on the Pedestal Schedule Wrap Only
UNIT PRICES: Provide the following unit prices:
1. One square foot x 6" deep concrete spall repair, includes cleaning of reinforcing, sawcut edges and new concrete placement.
2. Sikawrap for 2' x 6.5' long wrap for pedestals, include cost for rounding corners of concrete pedestals.
Reference Report with detailed list for additional information.
Size of repairs noted on drawings are approximate. Unit prices will be used to determine if a deduct or credit is due for the spall repairs.

REINFORCING STEEL

- 1. BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615 INCLUDING SUPPLEMENT S1, GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER.
2. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED.
3. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS OR 48" O.C. WHICH EVER IS LESS. IN MASONRY CONSTRUCTION, THE REINFORCEMENT SHALL BE SECURED IN PLACE WITH REBAR SPACERS AND SHALL NOT BE SPACED APART MORE THAN 48 INCHES ON CENTER.
4. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
5. WALLS, PLASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PLASTER, OR COLUMNS.
6. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). PLASTIC CHAIRS ARE NOT ALLOWED. FOR SLAB ON GRADE AND GRADE BEAMS, USE CONCRETE BRICK CHAIRS.
7. REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
8. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT, INCLUDING EXTERIOR DOWELS FOR CMU OR CONCRETE WALLS.
9. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS, BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS.
10. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES.
11. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAM.
12. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS.
13. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB.
14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
15. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY "AWS D1.4" AS INCORPORATED IN CSC CHAPTER No. 19, AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN. E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FROM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19. A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS, (SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING).
16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.
17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

Table with 3 columns: EXPOSURE CONDITION, MINIMUM COVER, TOLERANCE. Rows include DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS, FOR BARS 5/8" IN DIAMETER, FOR BARS 5/8" OR LESS IN DIAMETER, FOR SLAB ON GRADE (FROM TOP OF SLAB), FOR BEAMS, COLUMNS, FOR JOISTS AND SLABS.

- 18. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.)
GRADE 40: LAP 48 DIA. (24" MIN.)
CONCRETE - LAP PER SCHEDULE BELOW
Table with 4 columns: BAR SIZE, BAR SPlice LAP LENGTH IN CONCRETE, fc = 2000 PSI, fc = 3000 PSI, fc = 4000 PSI, fc = 5000 PSI. Rows include #3, #4, #5, #6, #7, #8, #9, #10, #11.

FOR WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".

Table: Pedestal Schedule Wrap Only. Columns: Column Location Mark, Size, Comments, Description. Rows include B-1 through A-2.

Grand total: 15

Table: Pedestal Schedule. Columns: Column Location Mark, Size, Comments, Description. Rows include C-1 through V2-V3.

Grand total: 68

Table: Drawing List. Columns: Sheet Number, Sheet Name, Current Revision, Current Revision Date. Rows include S101, S201, S401.

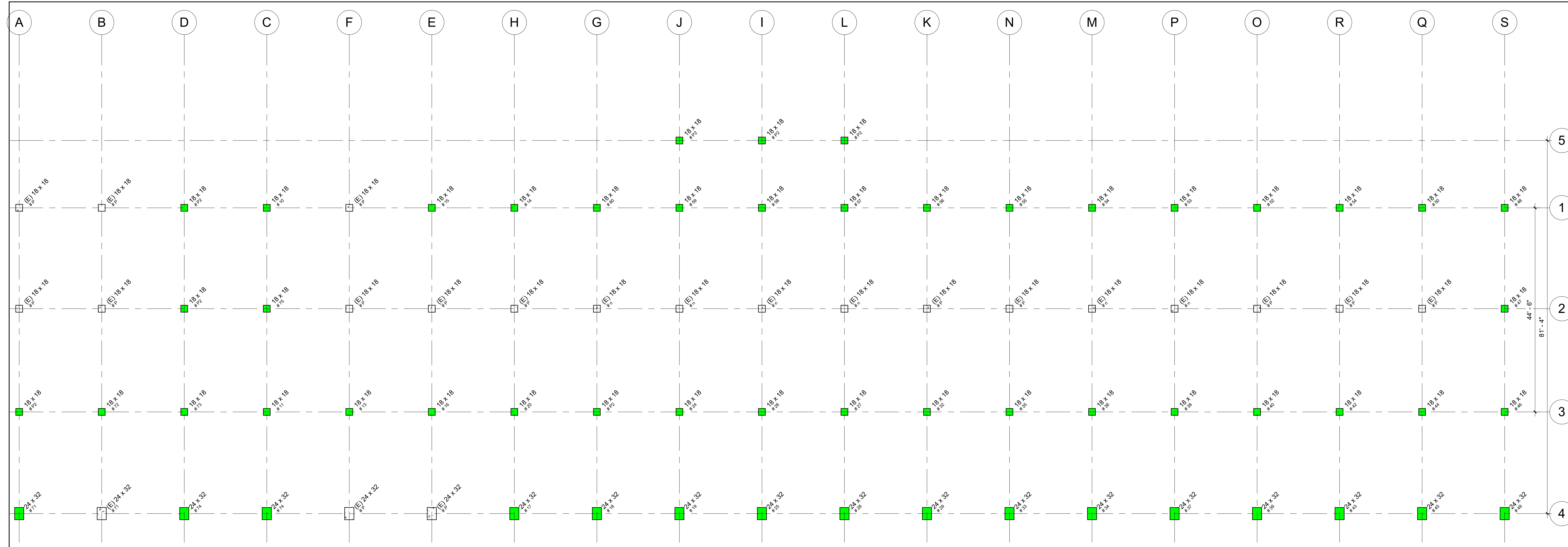


Document issued for: For Construction

Richard R. Flores Stadium Structural Repair ECISD Edinburg, Texas

PROJECT NUMBER 22115 DATE 4/19/2022

APPR DATE DESCRIPTION



Home Side, Concrete Pedestal Repair
 3/32" = 1'-0"

1
S201



Figure 2. Typical 18" square pedestal cracking. Same pedestal as below



Figure 3. Typical 24" x 32" pedestal cracking



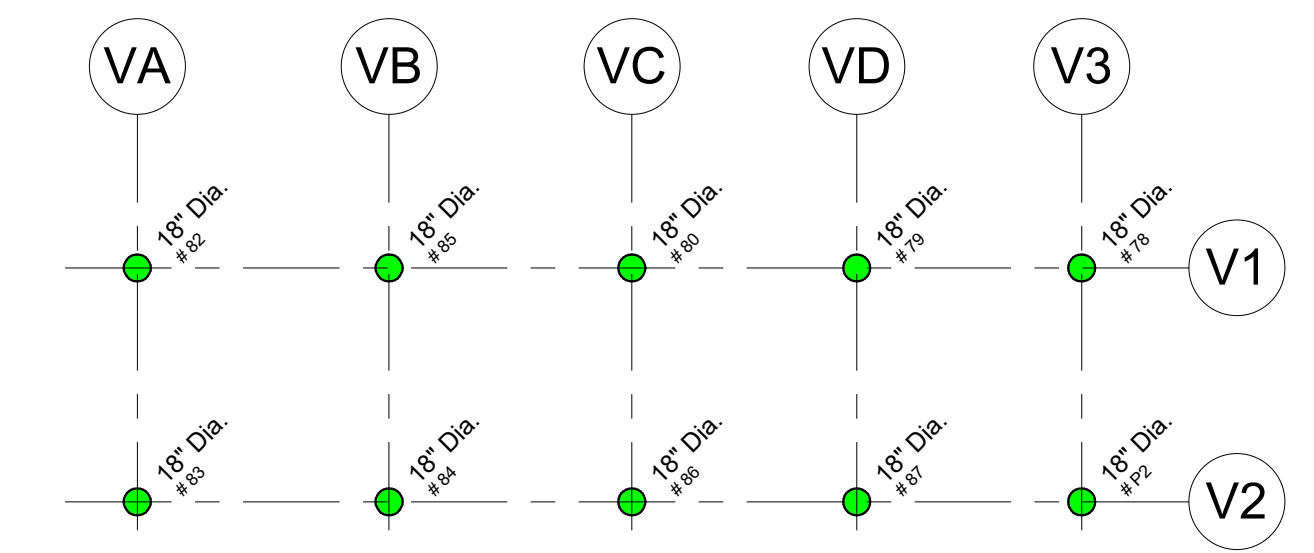
Figure 1. Typical 18" square pedestal cracking

NOTES

1. FOR GENERAL NOTES SEE SHEET S101.
2. FOR TYPICAL DETAILS SEE SHEETS NUMBER S400.
3. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH STRUCTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE THE WORK HAS BEGUN.
4. THE SIZE OF THE PEDASTAL IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
5. THE NUMBER INDICATED REFERENCES THE TASK NUMBER ON THE REPORT.
6. VISITOR SIDE PEDASTAL LOCATIONS ARE ONLY REPRESENTATIVE OF THE NUMBER OF PIERS THAT NEED TO BE REPAIRED, THE ACTUAL LOCATION WILL BE IDENTIFIED IN THE FIELD. REFERENCE REPORT FOR GENERAL LOCATION.

PROJECT NUMBER
 22115
 DATE
 4/19/2022

APPR
 DATE
 DESCRIPTION
 MARK

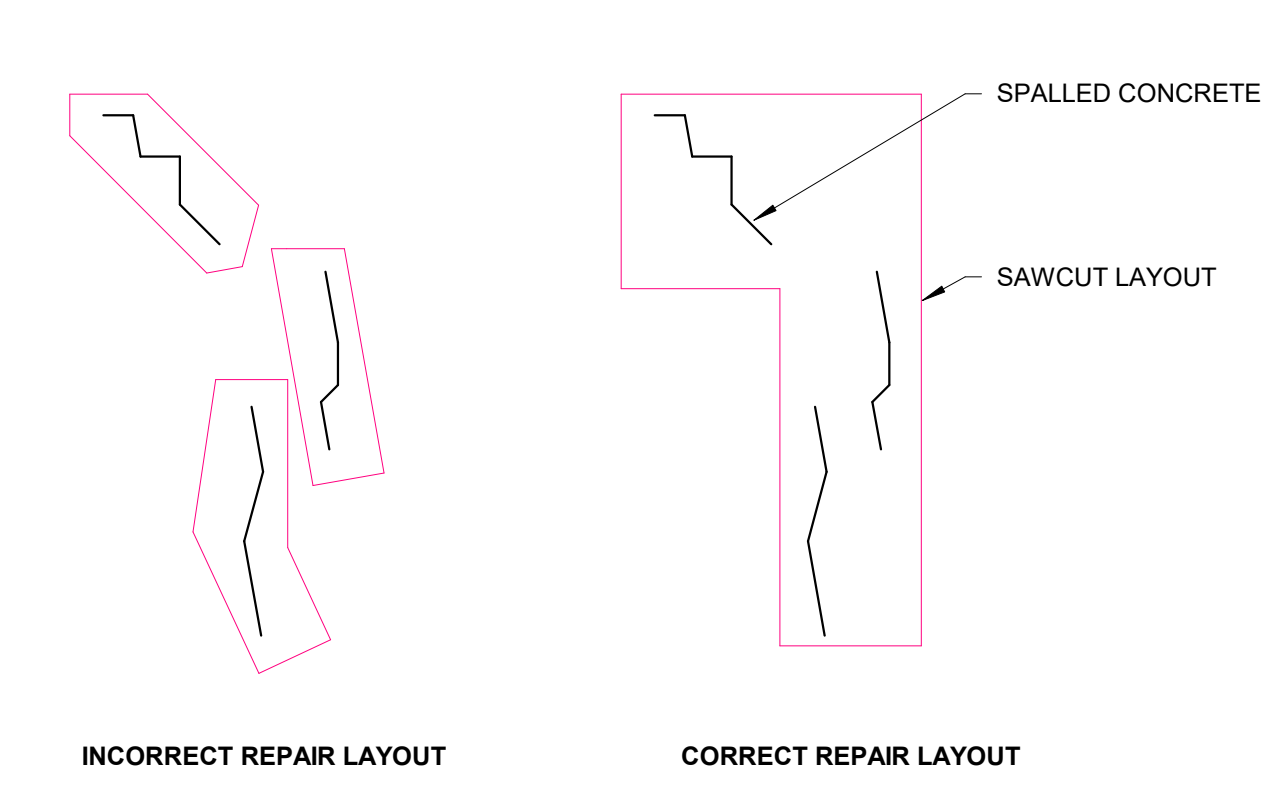
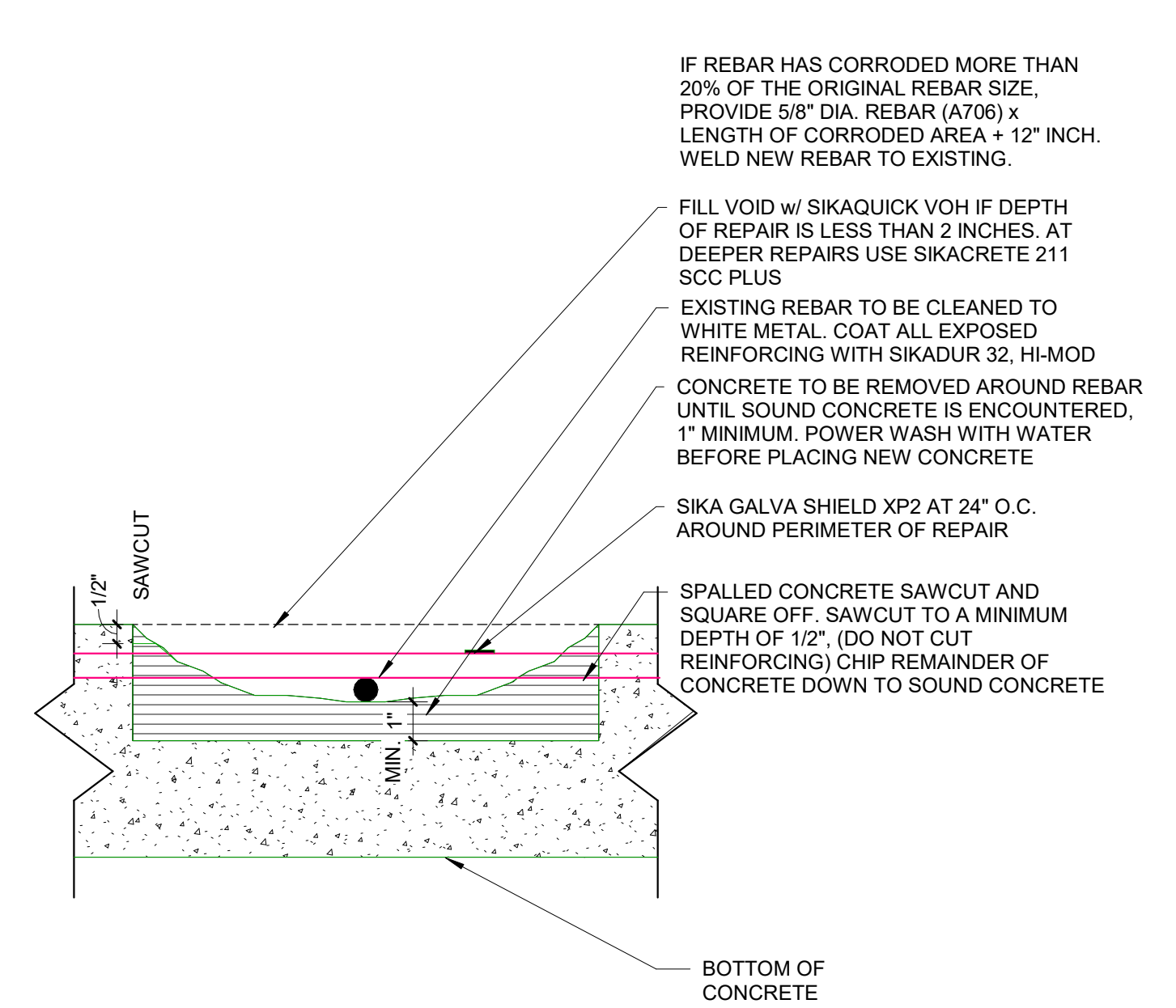
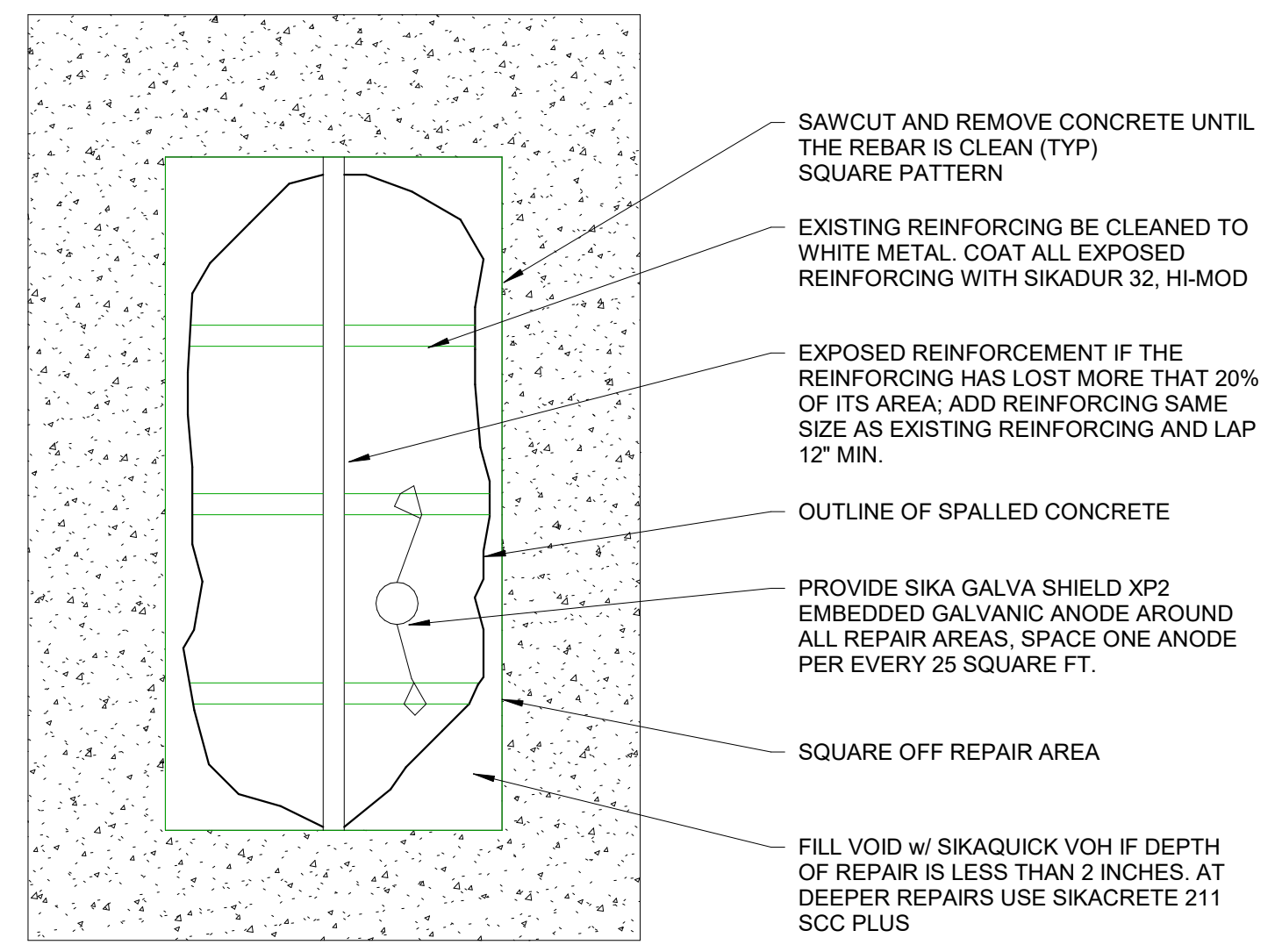


Visitor Side, Concrete Pedestal Repairs
 3/32" = 1'-0"

2
S201

Note: Pier locations are not actual locations, pedestal noted are for quantity purposes only

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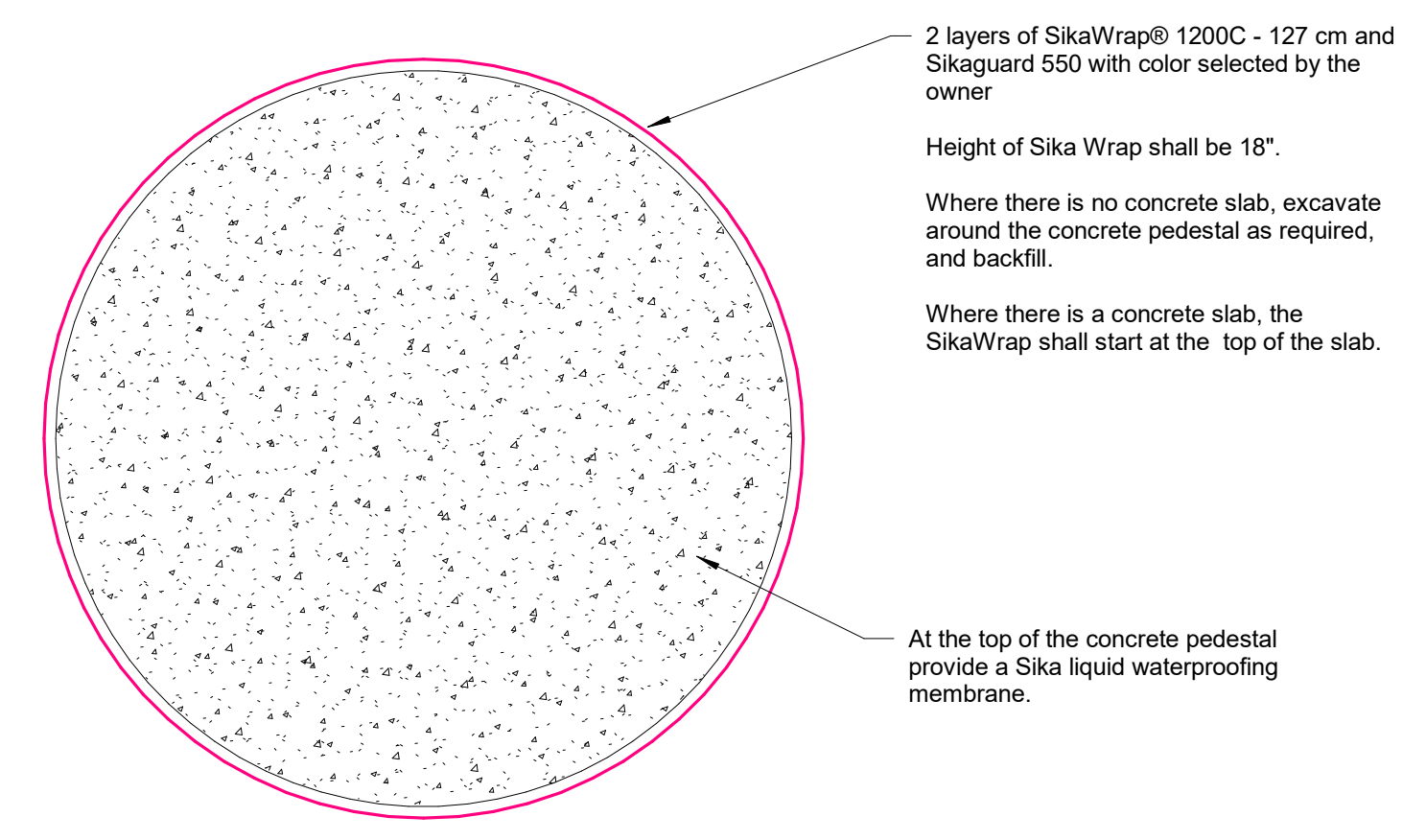


NOTE:
REPAIR SAWCUT LAYOUTS SHALL BE NEARLY SQUARE OR RECTANGULAR IN FORM

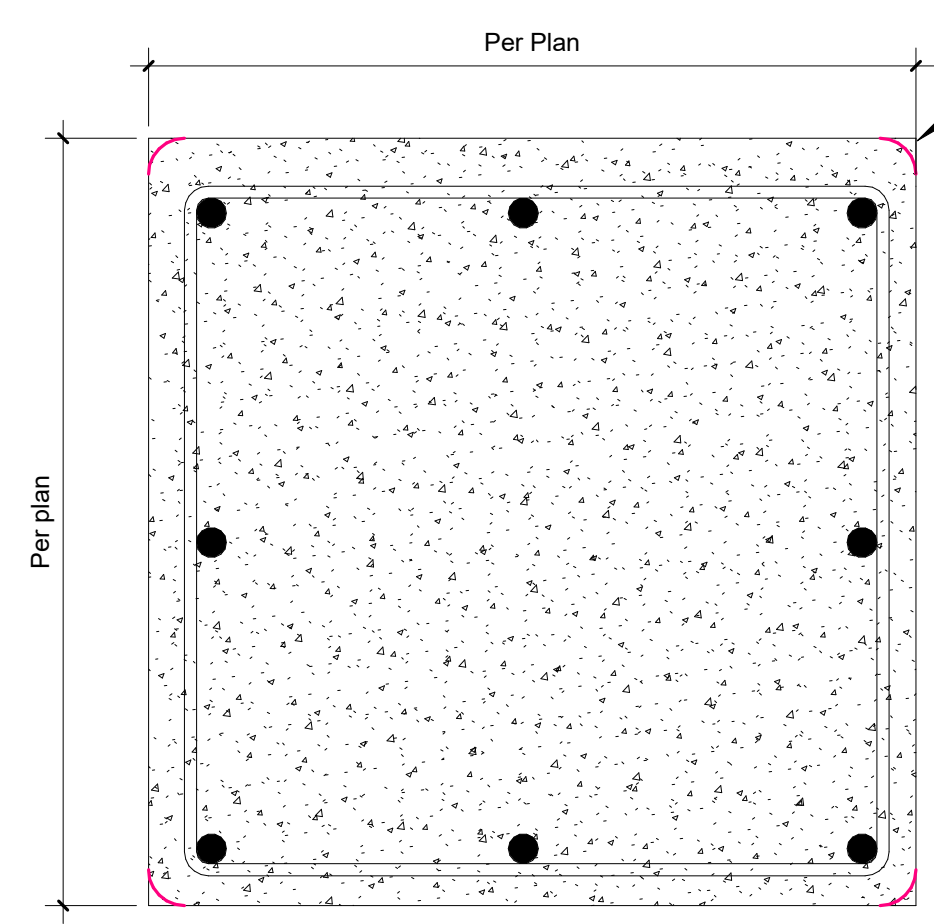
Typical 3 inch Deep Spalled Concrete Repair 7
1" = 1'-0" S401

Spalled Concrete Repair, Top of Pedestal 6
3" = 1'-0" S401

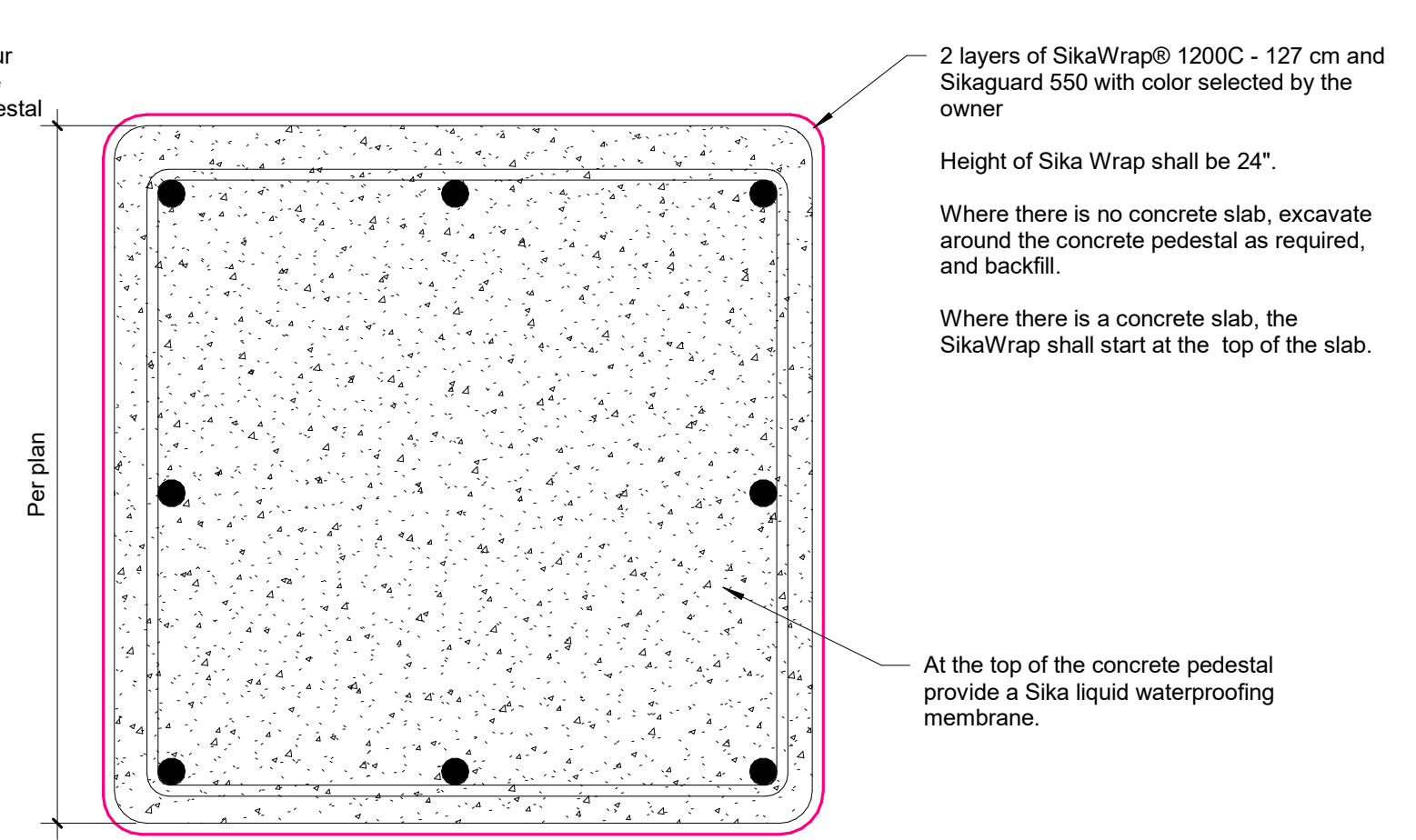
Spalled Concrete Layout 1
1" = 1'-0" S401



Round Concrete Pedestal, SikaWrap 8
3" = 1'-0" S401

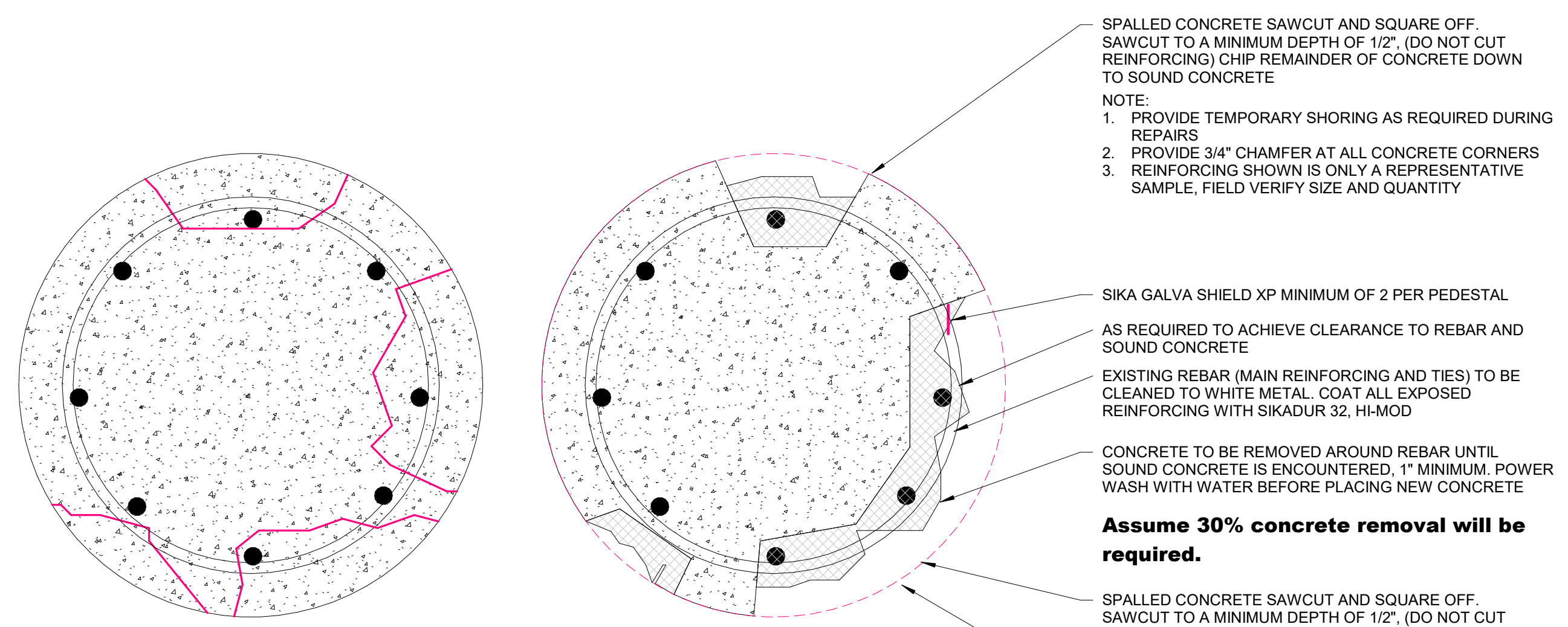


Concrete Pedestal, Rounding corners



Concrete Pedestal, Rounding corners

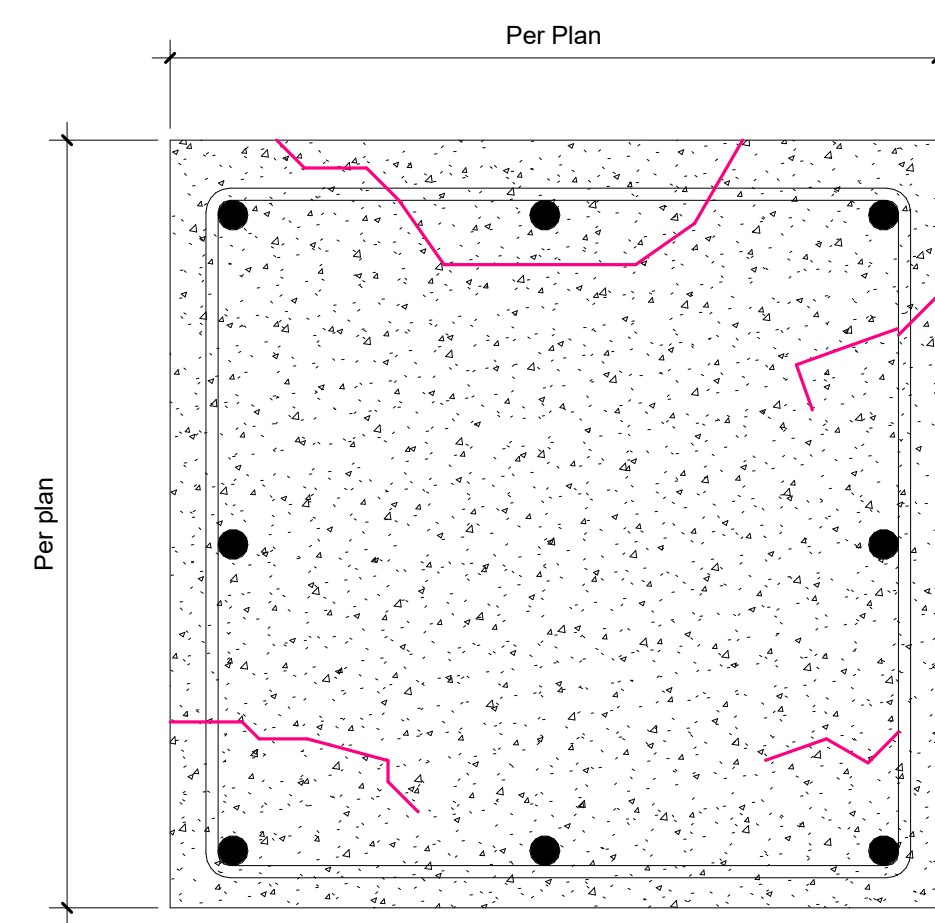
Concrete Pedestal, Sika Wrap 2
3" = 1'-0" S401



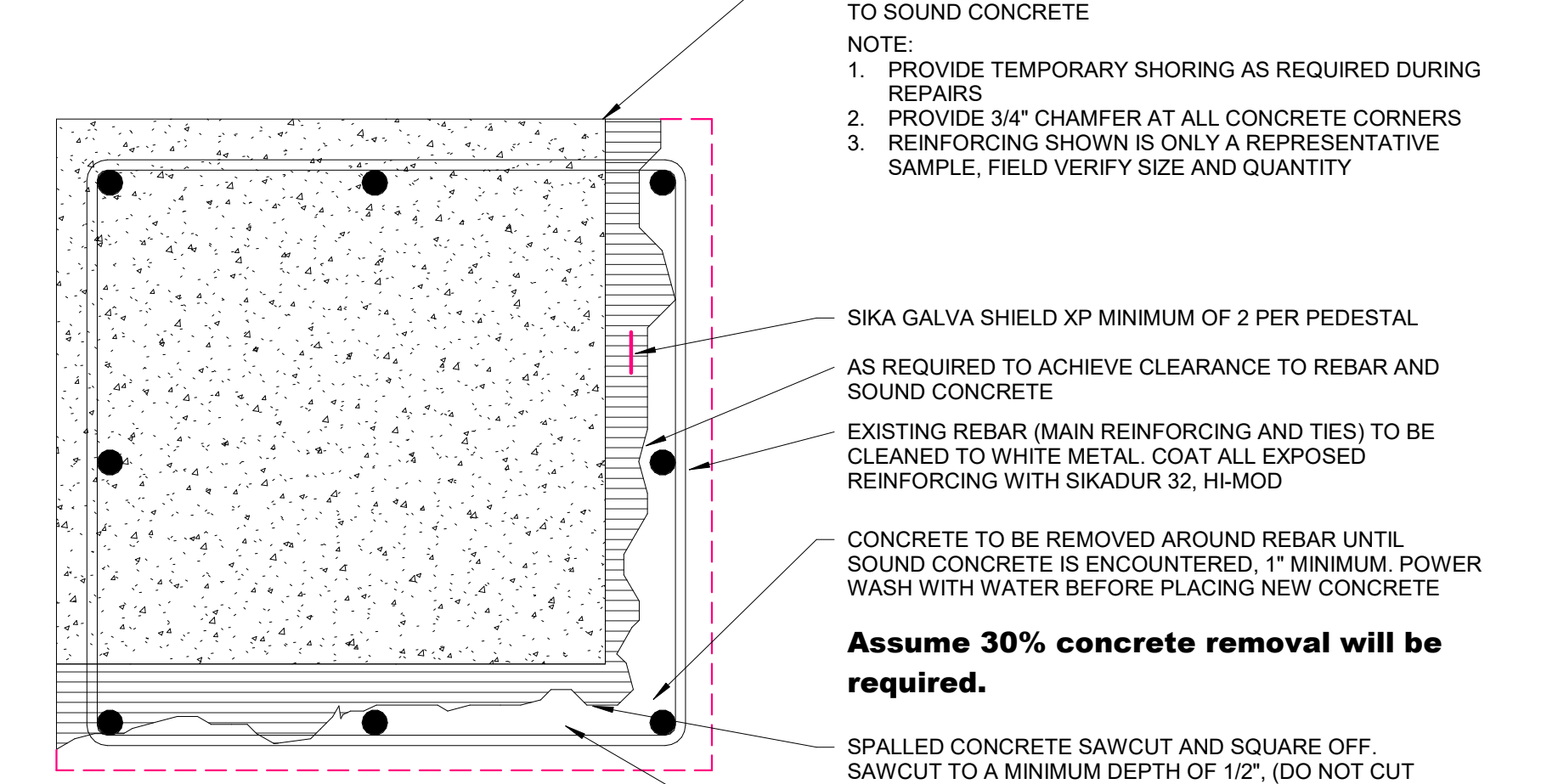
Existing Concrete Pedestal, Damage Varies

Removed loose

Spalled Concrete Round Pedestal Repair 9
3" = 1'-0" S401



Existing Concrete Pedestal, Damage Varies



Removed loose

Spalled Concrete Pedestal Repair 5
3" = 1'-0" S401

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