

EX. BRICK MAS.
VENEER EX. CONC. COLUMN

REMOVE EXISTING S.O.G. SEALANT AND REPLACE AROUND C.I.P. COLUMN, BASE OF BRICK, WALL, AND ISOLAITON JOINT

> TYPICAL COLUMN ISOLATION JOINT SEALANT DETAILS

> > FORCINA PARKING GARAGE REPAIRS

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N.J. CERTIFICATE · C-6319

METZGER DR. EWING, N.J. 08628

ISSUED FOR: REV DATE DESCRIPTION 07.12.22 DD PHASE REVIEW 09.02.22 | 85% CD'S

09.27.22 | 100% CD'S

12.15.23 FOR BID

10.21.22 DCA REVIEW

DRAWING TITLE LOWER LEVEL PLAN, SLAB ON GRADE REPAIRS

22058 07.12.22 BD/TCY

DRAWING NUMBER

10 ^{of} 19

LBA JOB NUMBER 72053

LEONARD BUSCH ASSOCIATES CONSULTING ENGINEERS 626 JACKSONVILLE RD., STE 100A, WARMINSTER, PA 18974

TYPICAL S.O.G. CONSTRUCTION JOINT

REPLACE W/ NEW SEALANT, SEE PLAN FOR LOCATIONS

REMOVE OLD JOINT MATERIAL, AND

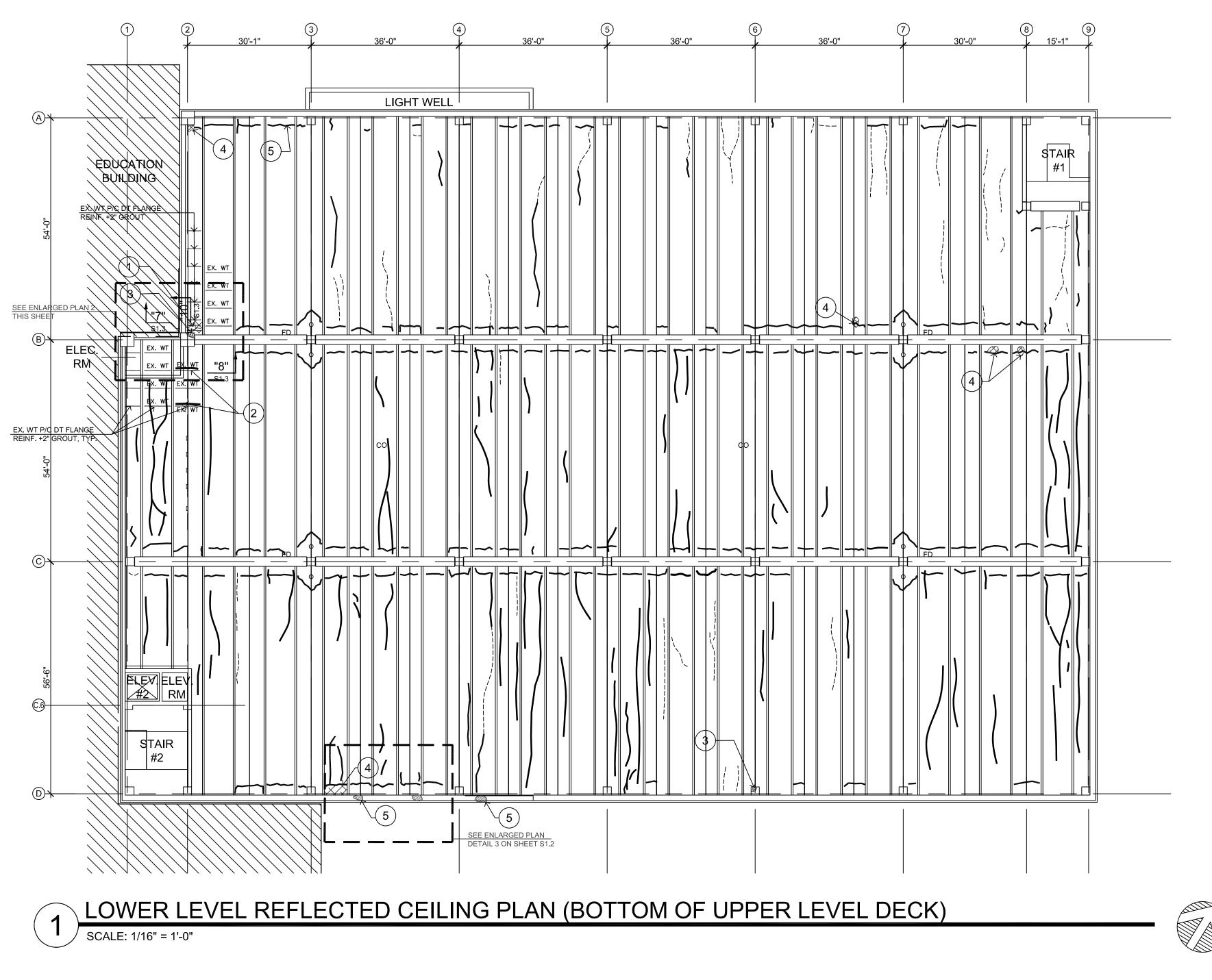
SEALANT REPLACEMENT DETAIL 1/2" = 1'-0

REMOVE BEYOND SPALL TO TO SOUND CONCRETE.

DETAIL "FA"

CONCRETE SPALL REPAIR DETAIL

SCALE: 3" = 1'-0 (TYPICAL SPALL REPAIR DETAIL AT SLAB-ON-GRADE)







<u>NOTES</u>

- 1 REPAIR EXISTING CRACKS SEE OVERHEAD CRACK REPAIR DETAIL "W"/S1.4, REPAIR SPALLED OR DELAMINATED AREAS PER DETAIL "B"/ S1.4. INSTALL NEW WT SEE ENLARGED PLAN 2 THIS SHEET.
- 2 REPLACE EXISTING GROUT OVER WT REINFORCING. SEE SECTION 8/ S1.3.
- TOP OF COLUMN CRACKED/ DELAMINATED / OR SPALLED SEE VERTICAL SURFACE SPALL REPAIR DETAIL "E"/S1.4 AND REPAIR NOTES 16-20 ON DRAWING S1.3.
- 4 BOTTOM OF FLANGE SPALL/ DELAMINATED SEE BOTTOM SURFACE SPALL REPAIR NOTES 16-20 ON DRAWING S1.3 AND REPAIR DETAIL "B"/S1.4.
- OVERHEAD SPALL IN C.I.P. HAUNCH CHAIRS OR LARGE HONEYCOMB PRESENT, SEE SECTION "6"/S1.3.

<u>LEGEND</u>

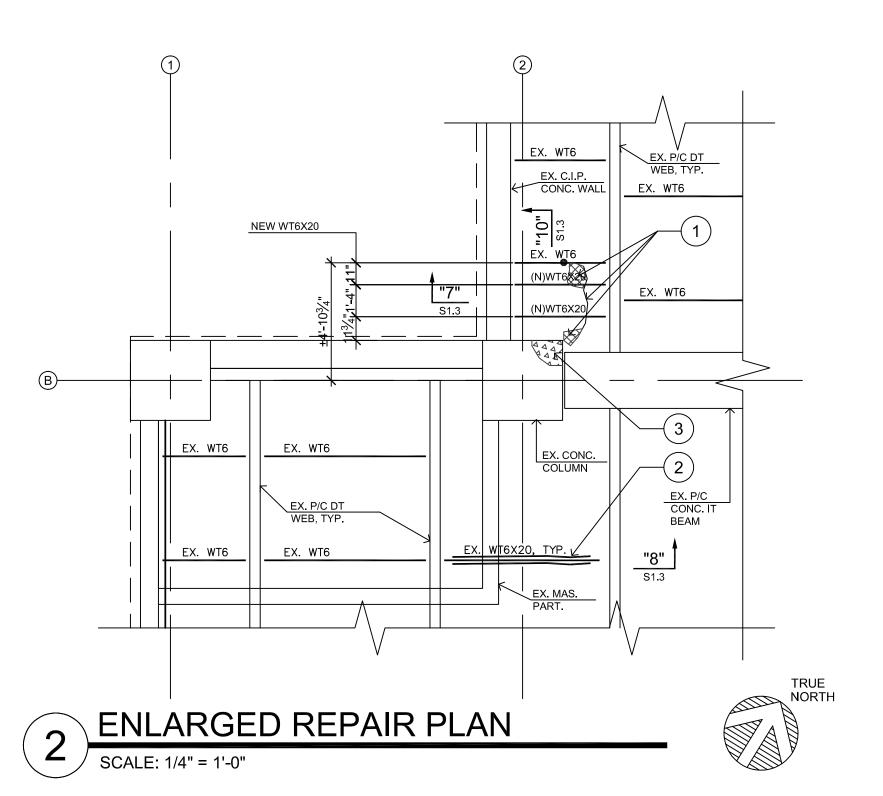
FLEXURAL CRACK

---- NARROW FLEXURAL CRACK

SPALLED CONCRETE SURFACE

CRACKED CONCRETE CORNER/ LARGER VERTICAL SPALL

HONEYCOMBED C.I.P. CONC. W/ EXP. STEEL CHAIRS



LBA JOB NUMBER 72053 LEONARD BUSCH ASSOCIATES

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FORCINA PARKING GARAGE REPAIRS

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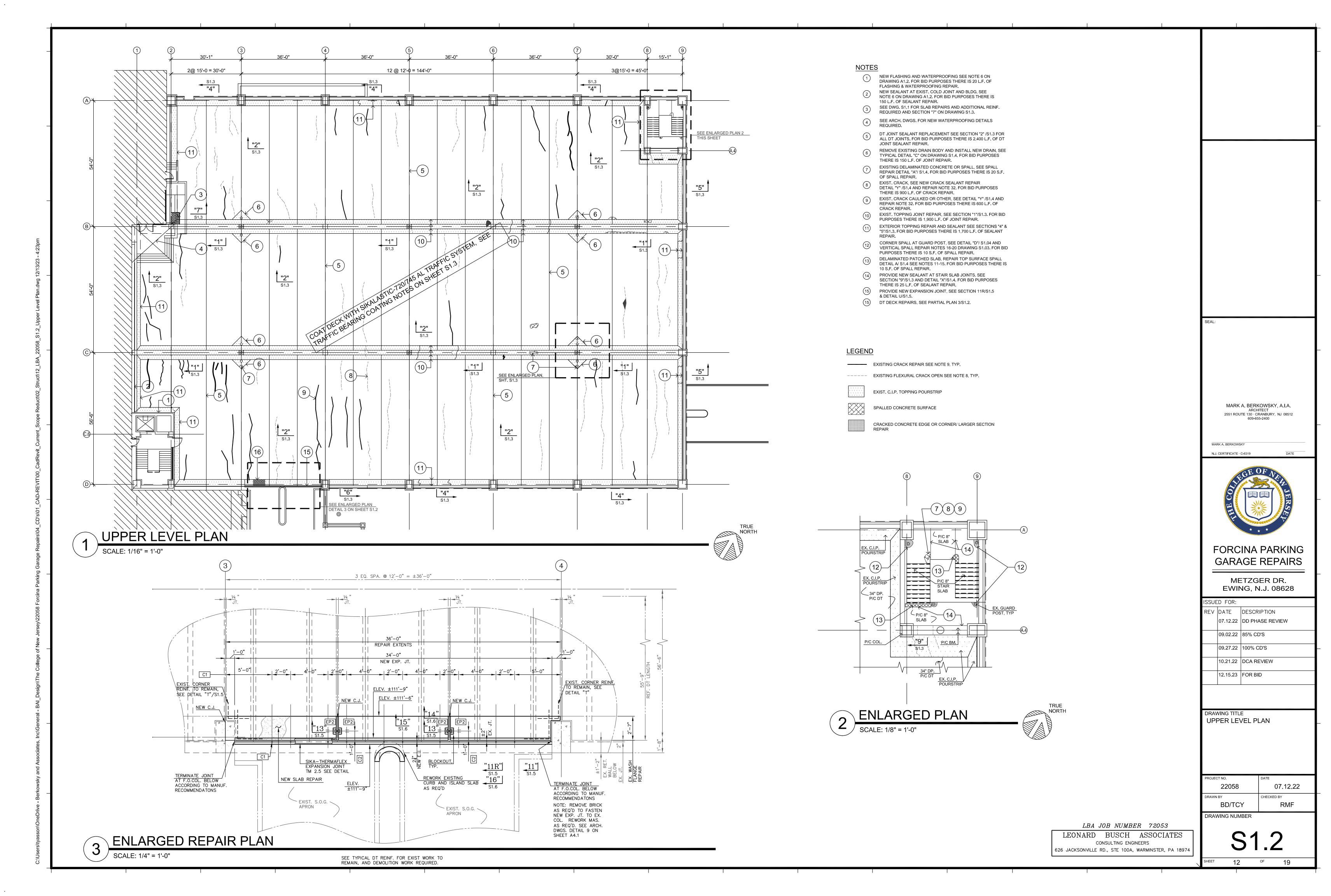
09.27.22 | 100% CD'S

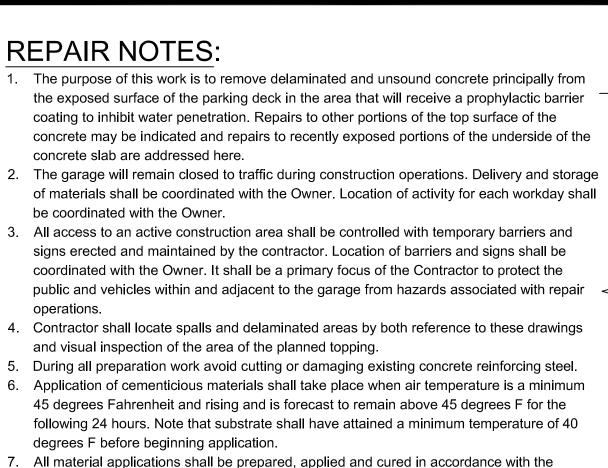
DRAWING TITLE LOWER LEVEL REFLECTED CEILING PLAN

22058 07.12.22 BD/TCY

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11 ^{of} 19





5. During all preparation work avoid cutting or damaging existing concrete reinforcing steel.

- 6. Application of cementicious materials shall take place when air temperature is a minimum following 24 hours. Note that substrate shall have attained a minimum temperature of 40
- 7. All material applications shall be prepared, applied and cured in accordance with the manufacturer's recommendations.

Lower Level Joint Sealant Repair Notes:

accordance with manufacturer's recommendations. Tool joint as required.

- 8. Remove lower level slab on grade joint material at control joint, column-slab joints, slab to exterior wall joints by mechanical means.
- 9. Clean joint as required between adjacent horizonal surfaces or horizonal and vertical wall surfaces in accordance with manufacturer recommendations.
- 10. Install backer rod and apply Sikaflex-1c SL to fill the joint to provide at least 0.5" depth in

Top Surface Spall Repair Notes:

- 11. Remove all loose and deteriorated concrete by mechanical means to provide a rough surface (+/- 1/8" profile) and at least 1/4" deep. Edges shall be vertical and preferably
- 12. Extend removal to at least ¾" below reinforcement encountered. Thoroughly clean exposed reinforcement with wire brush or mechanical means and rinse reinforcement and spall area with high pressure wash. Prime reinforcement with two coats of Sika Armatec 110 EpoCem.
- 13. Mix and brush SikaLatex R acrylic latex bonding agent grout into exposed surface of spall. Immediately afterwards apply SikaQuick 1000 cement mortar for surfaces 1" deep and less or SikaQuick 1000 concrete for spalls greater than 1" deep.
- 14. Finish surface to match texture of adjacent areas.
- 15. Cure freshly placed material with wet burlap or spray mist for the first 48 hours after

Bottom & Vertical Surface Spall Repair Notes:

- 16. Remove all loose and deteriorated concrete by mechanical means to provide a rough surface (+/- 1/16" profile) and at least 1/4" deep. Edges shall be vertical at bottom spalls and horizontal and vertical at vertical spalls, preferably saw-cut. Extend removal to at least 3/4" below reinforcement encountered.
- 17. Thoroughly clean exposed reinforcement with wire brush or other mechanical means and rinse reinforcement and spall area with high pressure wash. Prime reinforcement with two coats of Sika Armatec 110 EpoCem.
- 18. Mix and brush Armatec 110 EpoCem bonding agent grout into exposed surface of spall. Immediately afterwards apply SikaTop 123 Plus repair mortar. For surfaces over 1½" deep apply mortar in lifts.
- 19. Finish surface to match texture of adjacent areas.

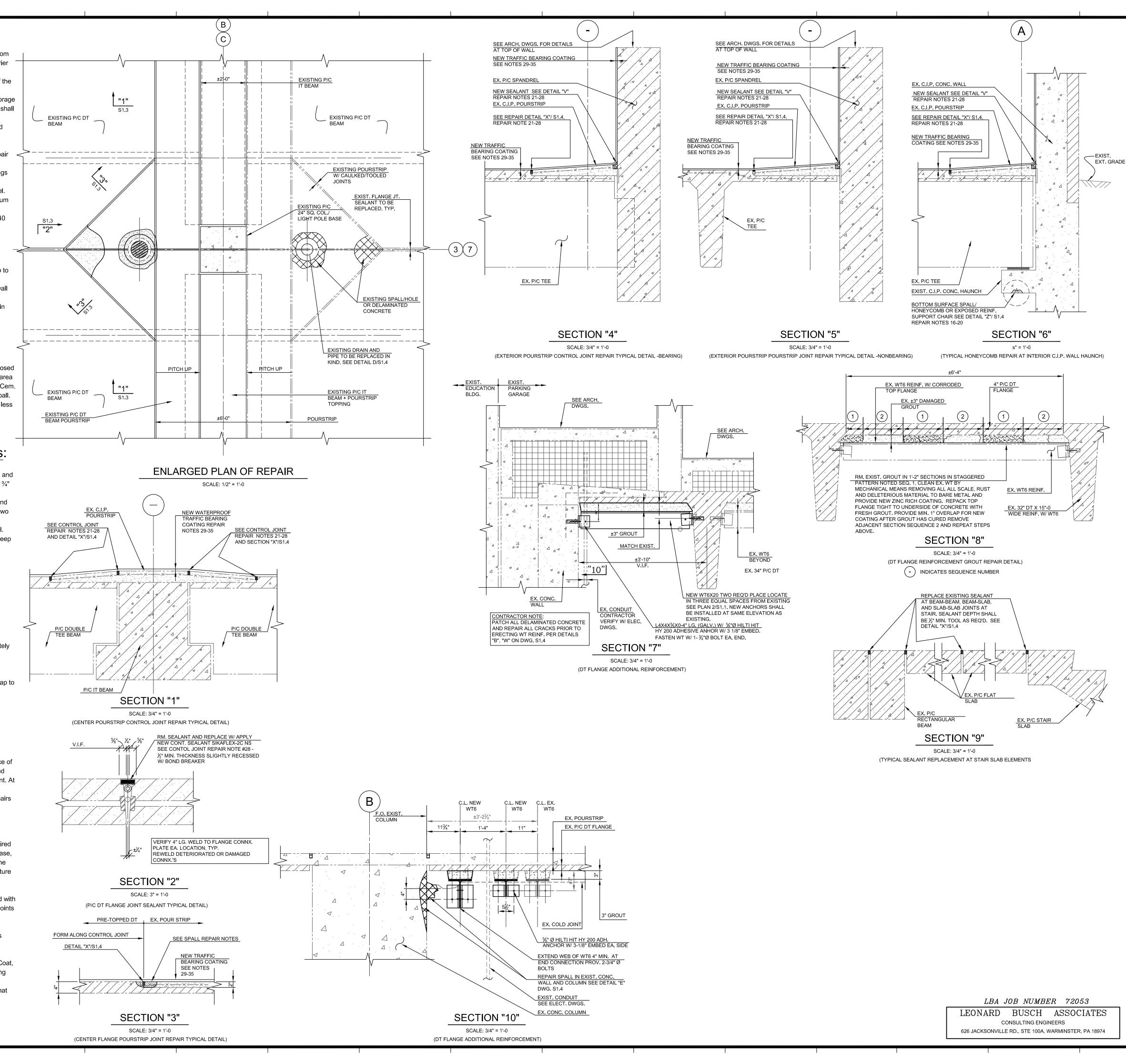
20. Cure spall with wet burlap or spray mist for the first 48 hours after application.

Control Joint Repair Notes:

- 21. Remove all loose and deteriorated concrete by mechanical means to at least ¼" deep. Edges shall be vertical and preferably saw-cut.
- 22. Extend removal to at least 3/4" below reinforcement encountered without cutting reinforcement. Thoroughly clean exposed reinforcement with wire brush or mechanical means and rinse reinforcement and spall area with high pressure wash. Prime reinforcement with two coats of Sika Armatec 110 EpoCem.
- 23. Prime concrete surfaces with brush application of Sika Armatec 110 EpoCem immediately prior to application of repair mortar/concrete. 24. Apply SikaQuick 1000 cement mortar for surfaces 1" deep and less or SikaQuick 1000
- concrete for areas greater than 1" deep. 25. Maintain the original control joint by forming vertical surface along joint and providing gap to be filled with sealant.
- 26. Finish surface to match texture of adjacent areas.
- 27. Cure fresh mortar/concrete with wet burlap or spray mist for the first 48 hours after
- 28. Provide backer bar and fill joint with Sikaflex -2c NS TG traffic grade polyurethane elastomeric sealant. Tool as required.

Traffic Bearing Coating Notes:

- 29. For extent of waterproofing coating, see drawing A1.2. Upper deck surface, interior face of upper deck walls shall receive waterproofing. Waterproofing area shall be prepared and coated with a five coat application of Sikalastic -720/745 AL Traffic System or equivalent. At Owner's discretion, extent of coating may be increased.
- 30. Begin application of the elastomeric polyeurthane system after all other top surface repairs are complete and cured. Contractor shall confirm with the manufacturer that other treatments, repairs and sealants used on the project will not deleteriously affect the application or longevity of the system and apply in accordance with manufacturer's recommendations
- 31. Prepare surface to receive traffic bearing coating by treating any discolored areas required to decontaminate them of surface contaminants including but not limited to dirt, oil, grease, chemicals or curing compounds. After treating stains, prepare all surfaces to recieve the traffic bearing coating by shotblasting in accordance with industry standard surface texture ICRI CSP 3-4 for deck surfaces and CSP 1-3 for wall surfaces.
- 32. See drawing S1.2 notes 7,8, & 9 for crack and spall repairs. Prepare all visible hairline cracks 1/16" wide or less apply as recommended by Sika. Wider cracks shall be sealed with Sikadur 35, Hi-Mod LV in a gravity fed application. "Detail" area around all cracks and joints according to manufacturer recommendations.
- 33. Prior to each coating application, the contractor shall review forecasted weather, temperature, substrate moisture content, and all other factors are within manufacturer's guidelines for the application.
- 34. Select appropriate Primer Coat material based on field conditions and manufacturer recommendations. Apply Primer Coat, 720 Detail Coat, 720 Base Coat, 745 AL Wear Coat, and 745 AL Top Coat to achieve a total system thickness of at least 55 dry mils following the manufacturer's System Guide for Heavy Vehicular Traffic - Seed and Lock. 35. Contractor shall coordinate with the Owner and take appropriate measures to assure that
- vapors and overspray to not affect the public, applicators, nearby vehicles or adjacent buildings.



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DRAWING TITLE

22058

BD/TCY

DRAWING NUMBER

13 OF

10.21.22 DCA REVIEW

03.10.23 RESPONSE TO DCA

COMMENTS

SECTIONS AND REPAIR NOTES

07.12.22

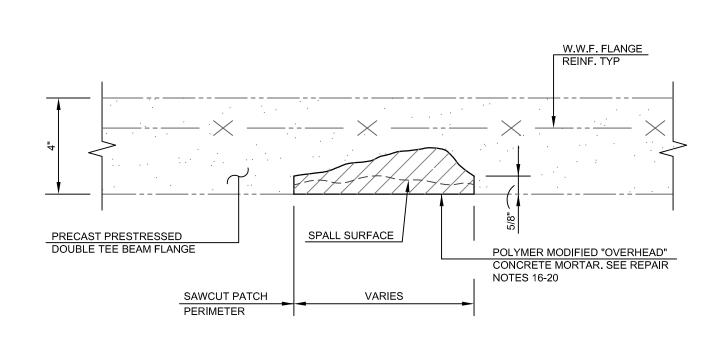
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SSUED FOR:

N.J. CERTIFICATE C-6319

DETAIL "A" CONCRETE TOP SURFACE SPALL REPAIR DETAIL

SCALE: 3" = 1'-0



DETAIL "B" CONCRETE BOTTOM SURFACE SPALL REPAIR DETAIL

NEW C.I. ROOF DRAIN SEE MECHANICAL DWGS. EXISTING C.I.P. CONC TOPPING REPAIR AS NON-SHRINK GROUT REQUIRED, SEE TOP FIELD DETERMINE SEE NOTE "3" BELOW SURFACE SPALL NOTES SEE NOTE "2" BELOW AND DETAIL A/ S1.4 EXIST. C.I.P. POURSTRIP EXISTING PRECAST NOTE "1" BELOW

NEW 6"Ø C.I. DRAIN PIPE (TO MATCH EXIST.)

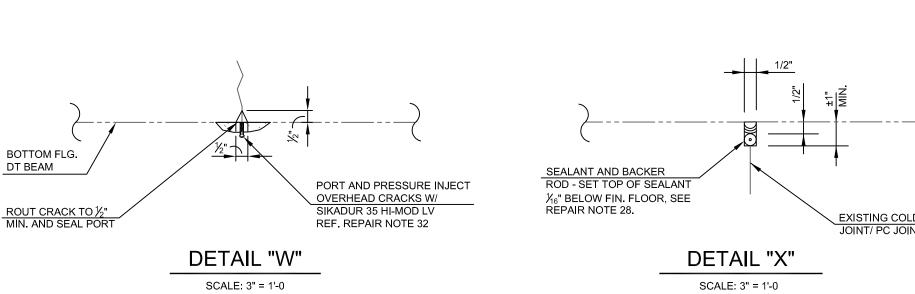
SEE DWG, P1.1

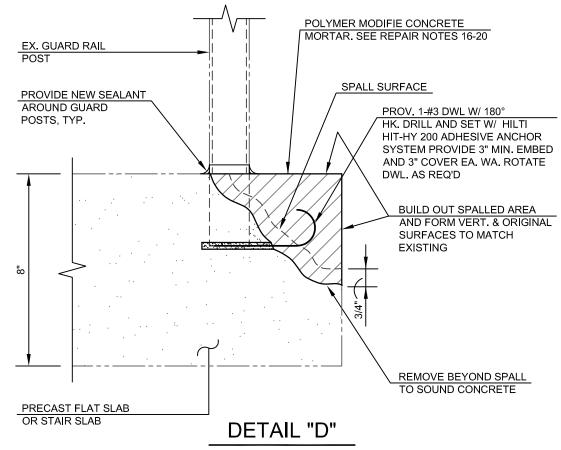
NEW UPPER LEVEL DRAIN DETAIL "C'

NOTE "1": CORE HOLE IN PRECAST PLANK (AS REQ'D) 1" LARGER THAN O.D. OF PIPE

NOTE "2": CORE TOPPING AS REQ'D. FOR DRAIN INSTALLATION

NOTE "3": REMOVE LOOSE DELAMINATED TOPPING AS REQUIRED IN DRAIN TOPPING AREA AND REPAIR SEE SPALL





CONCRETE EDGE SPALL REPAIR DETAIL

SCALE: 3" = 1'-0

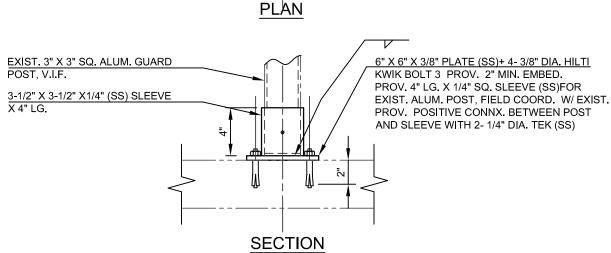
POLYMER MODIFIED CONCRETE

MORTAR. SEE REPAIR NOTES TOP OF DECK SPALL SURFACE BUILD OUT SECTION IN LIFTS AS REQUIRED, AND FORM VERT. SURFACES TO MATCH EXISTING. EX. CONCRETE COLUMN REMOVE ALL LOOSE MATERIAL BY MECHICAL MEANS TO SOUND CONCRETE, CLEAN SURFACE W/ WIRE BRUSH AND COMPRESSED AIR. SOME AREAS REQUIRING RESTORATION ARE EXISTING REPAIRS THAT HAVE CRACKED AND/OR DELAMINATED. DETA'IL "E"

CONCRETE VERTICAL SPALL REPAIR DETAIL

SCALE: 3" = 1'-0

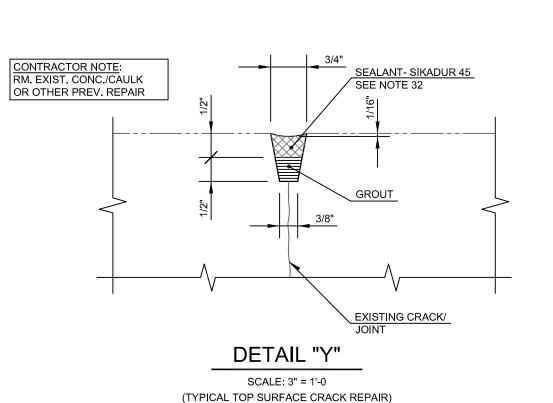
EX. RAMP EXIST. 3" X 3" SQ. ALUM. GUARD POST PLATE, V.I.F. 3/8 " X 6" X 6" BASE PLATE (SS) FASTENED TO CONCRETE DECK _____

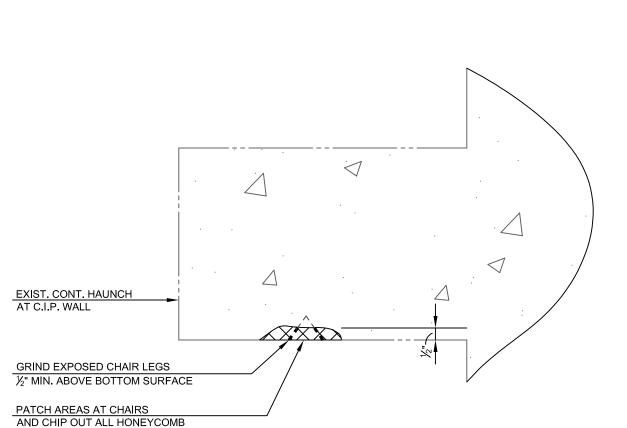


DETAIL "F"

TYP. GUARD BASE REPAIR DETAIL

SCALE: 1 1/2" = 1'-0 CONTRACTOR NOTE: VERIFY EXISTING CONDITIONS AND SECURE OR REINSTALL THE EXISTING GUARD TO MEET THE BUILDING CODE REQUIREMENTS AND RESIST A MIN. 200# FORCE APPLIED AT THE TOP OF THE GUARD IN ANY DIRECTION.





DETAIL "Z"

SCALE: 3" = 1'-0

AREAS AND PATCH W/ POLYMER

SEE BOTTOM SURFACE SPALL

"OVERHEAD" CONCRETE MORTAR.

REPAIR AND REPAIR NOTES 16-20

GENERAL NOTES

1. Steel for pipe sections shall conform to ASTM A53, type E, grade B (Fy = 35 ksi). Round HSS sections conforming to ASTM A500 grade B (Fy = 42 ksi) may be substituted for pipe sections of equivalent size. Steel for rectangular HSS sections shall conform to ASTM A500, grade B (Fy = 46 ksi). Steel for W shapes shall conform to ASTM A992 unless otherwise noted (Fy = 50 ksi). All other structural steel shall conform to ASTM A36, but A992 or A572-50 may be substituted for A36 material. All structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction Specification for Structural Steel Buildings and the latest edition of the AISC Code of Standard Practice for Steel Buildings and Bridges.

2. Anchor rods shall conform to ASTM F1554 grade 36 preferably with weldability supplement S1, but A36 or A307 may be substituted with the Engineers approval. All anchors shall be properly and accurately positioned in piers, walls or footings prior to the placement of concrete or grout. Embedded portion of anchor rods shall have formed heads, double nuts or single nuts secured to prevent spin off.

3. All shop connections shall be welded or bolted with high strength bolts conforming to ASTM A325. All bolted main field connections shall be bolted with high strength bolts conforming to ASTM A325. Where noted, ASTM A307 may be employed for secondary field connections and bracing. All high strength bolts shall be tightened by the "Turn of the nut" method. Unless otherwise noted end reactions shall be based on the maximum uniform load as listed in appropriate tables of the AISC Manual of Steel Construction. Composite members shall have the listed end reactions increased 25%.

4. All welded construction shall conform to AWS standards and AISC specs. Welding rods shall conform to the

5. All new structural steel shall be hot-dipped galvanized to satisfy the G60 designation. Contractor may propose alternative rust-inhibiting coating system for the Owner's review and approval. As a result of field welding or other construction activities, damaged, burned or abraded areas shall be field re-touched with cold

6. All concrete construction shall conform to the Building Code Requirements for Structural Concrete, ACI-318; Specifications for Structural Concrete, ACI-301; and the Guide for Concrete Floor and Slab Construction. ACI-302. Concrete for wearing slabs shall develop a minimum compressive strength (f'c) of 5000 psi at 28 days. All other concrete shall develop a minimum compressive strength of 3000 psi at 28 days. General Contractor shall take appropriate steps and follow ACI recommendations when encountering hot or cold weather

7. All reinforcing bars shall conform to ASTM A615 grade 60. All welded wire fabric (w.w.f.) shall conform to ASTM A1064 (Grade 65).

8. Grout shall be non-shrink/ non-metallic type in accordance with ASTM C-1107 with a minimum compressive

9. See architectural drawings for details and dimensions not shown, construction details of all walls, all flashing, partitions, etcetera.

10. These plans, sections and details describe a structure that may be considered self-supporting after all structural elements are erected, properly secured and/or sufficiently cured. Until that time it is the responsibility of the Contractor to provide appropriate temporary bracing, shores and underpinning to sustain material dead loads and any construction related live loads. It is the responsibility of the General Contractor to coordinate his work with other trades and to ensure all work is performed in a safe and professional manner.

11. These documents shall not be construed to specify the means and methods of construction.

12. These drawings are based on the best available information available at the time of their creation and all work shall be executed in conformity with these drawings. Before proceeding with construction, General Contractor shall check and verify all dimensions, elevations and any existing conditions. Discrepancies, if any, are to be reported to the Design Professional for adjustment.

SPECIAL INSPECTIONS NOTES **IBC 2021 NEW JERSEY EDITION CHAPTER 17**

General Requirements

1. It shall be the responsibility of the Owner's representative to retain the services of special inspectors as noted below. Where not specifically noted below, frequency of periodic inspections shall be a negotiated item between the Owner and the special inspector. Inspections shall be sufficient in number for inspector to certify compliance with the contract documents.

2. Inspections that find items in conflict with project requirements are to be brought to the immediate attention of the appropriate parties for resolution: Subcontractor's Foreman, General Contractor's Superintendent, Owner's Representative and/or the Design Professional of Record

3. All contractors shall be prepared to submit letters of certification stating that the construction and fabrication under their control was performed to satisfy the special inspection requirements of the IBC 2018 NEW JERSEY EDITION, to comply with the contract documents and to meet or exceed industry standards.

Steel Construction

1. In general it is the intention of this document to require the Steel Fabricator and Erector to comply with the quality assurance inspection requirements of the "Specification for Structural Steel Buildings," AISC 360,

2. Steel fabricator shall be registered and approved to perform such work without special inspections by an

approved agency such as the American Institute of Steel Construction or the Steel Joist Institute.

3. All shop and field welding are required to be performed by welders qualified for such work in accordance with AWS D1.1. Verification of welder's qualifications shall be submitted prior to fabrication or field work. 4. Fabricator shall have on record and available for inspection, records identifying all materials used in the

fabrication process including material certifications for structural steel, bolts, washers, nuts, weld filler and

5. All high strength bolting shall be inspected in accordance with the AISC "Code of Standard Practice for Steel Buildings and Bridges", latest edition. Bearing type connections shall be inspected on a periodic

6. Steel construction shall be inspected by an approved quality control agency after erection for compliance with the contract documents and report provided to the Owner in a timely fashion.

Concrete Construction

1. All mix designs shall be submitted to the engineer of record for review and acceptance.

2. Inspection of reinforcing steel placement and cast in place anchors shall be conducted by the designated quality control agency prior to any concrete pour. Included shall be the inspection of formwork for general compliance with the contract drawings including the proper positioning of reinforcement and embedded

3. During placement of fresh concrete continuous inspection shall be provided. Quality control agency shall verify proper mix design is delivered and shall sample concrete for strength tests and check slump temperature and air content.

4. Inspection items to follow schedule below and Table 1705.3 Inspect anchors post installed in hardened concrete shall be continuously inspected in compliance with ACI

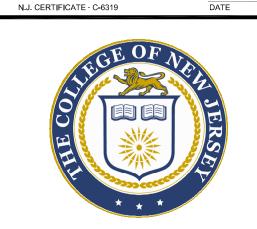
5. The special inspector shall verify grout mix design and perform periodic inspection of grout placement.All mix designs shall be submitted to the engineer of record for review and acceptance.

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FORCINA PARKING **GARAGE REPAIRS**

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DRAWING TITLE DETAILS AND GENERAL NOTES

22058 07.12.22 BD/TCY

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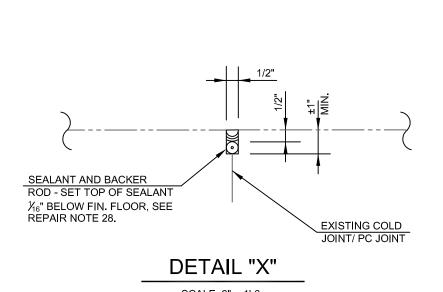
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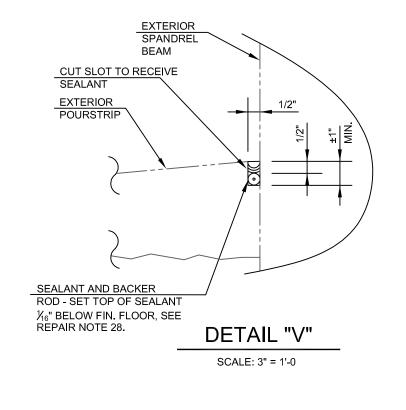
PRESTRESSED DT. FLANGE

CLOSED CELL NEOPRENE

ROD CAULKING

1 1/2" = 1'-0





Inspection Items

Concrete Construction (section 1705.3 and Table 1705.3)

Post-installed concrete adhesive anchor installation

Post-installed concrete mechanical anchor installation

perform slump and air content tests, and determine the

Prior to concrete placement, fabricate specimens for strength tests,

Verify maintenanc e of specified curing temperature and techniques

Inspect concerete placement for proper application techniques

Inspect formwork for shape, location and dimensions of the

Inspect Reinforcement and verify placement

Steel Construction (section 1705.2)

Grout Material Verification

Verify use of required Mix Design

temperature of the concrete

concrete member being formed

Field Bolts

Field weld

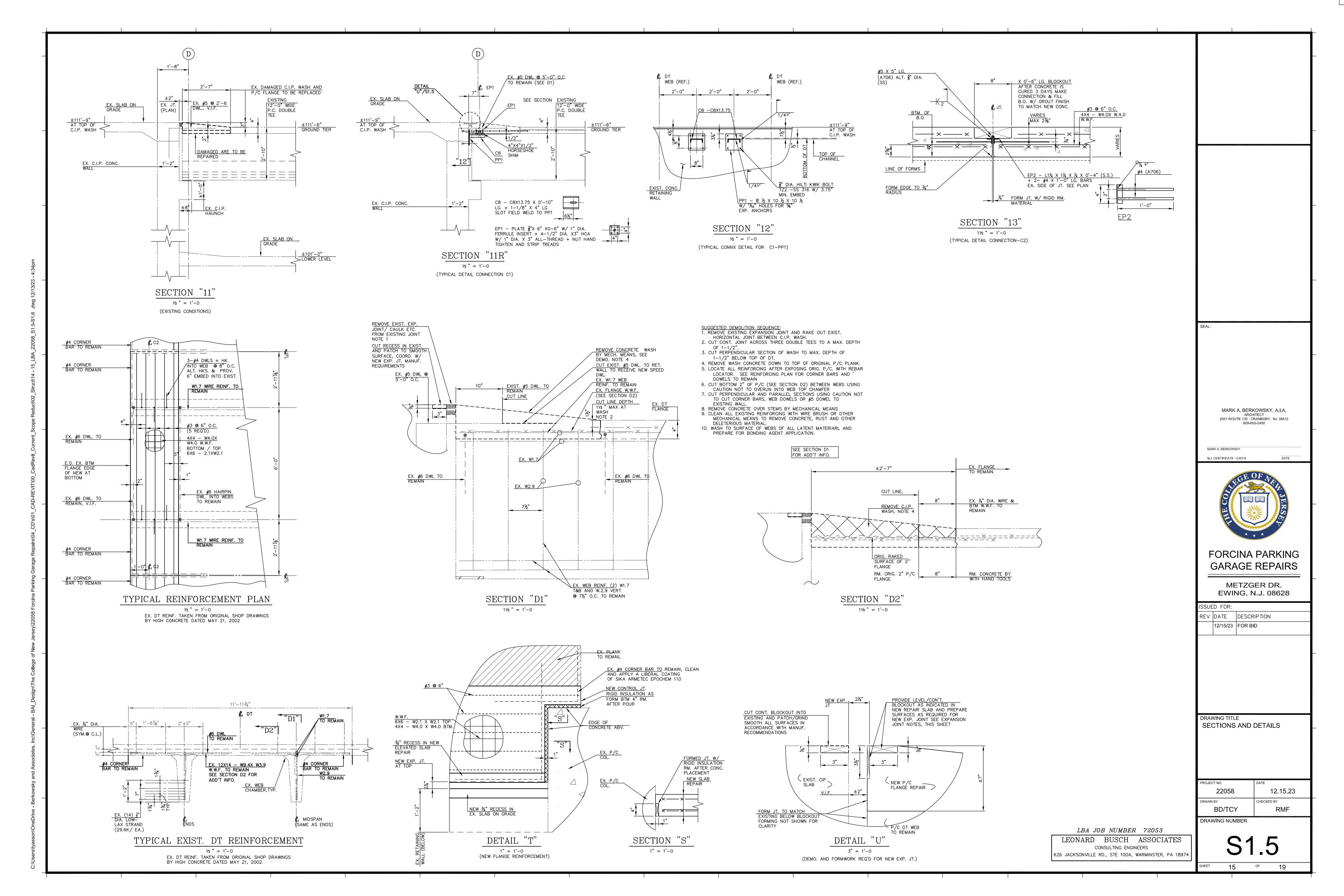
Continuous

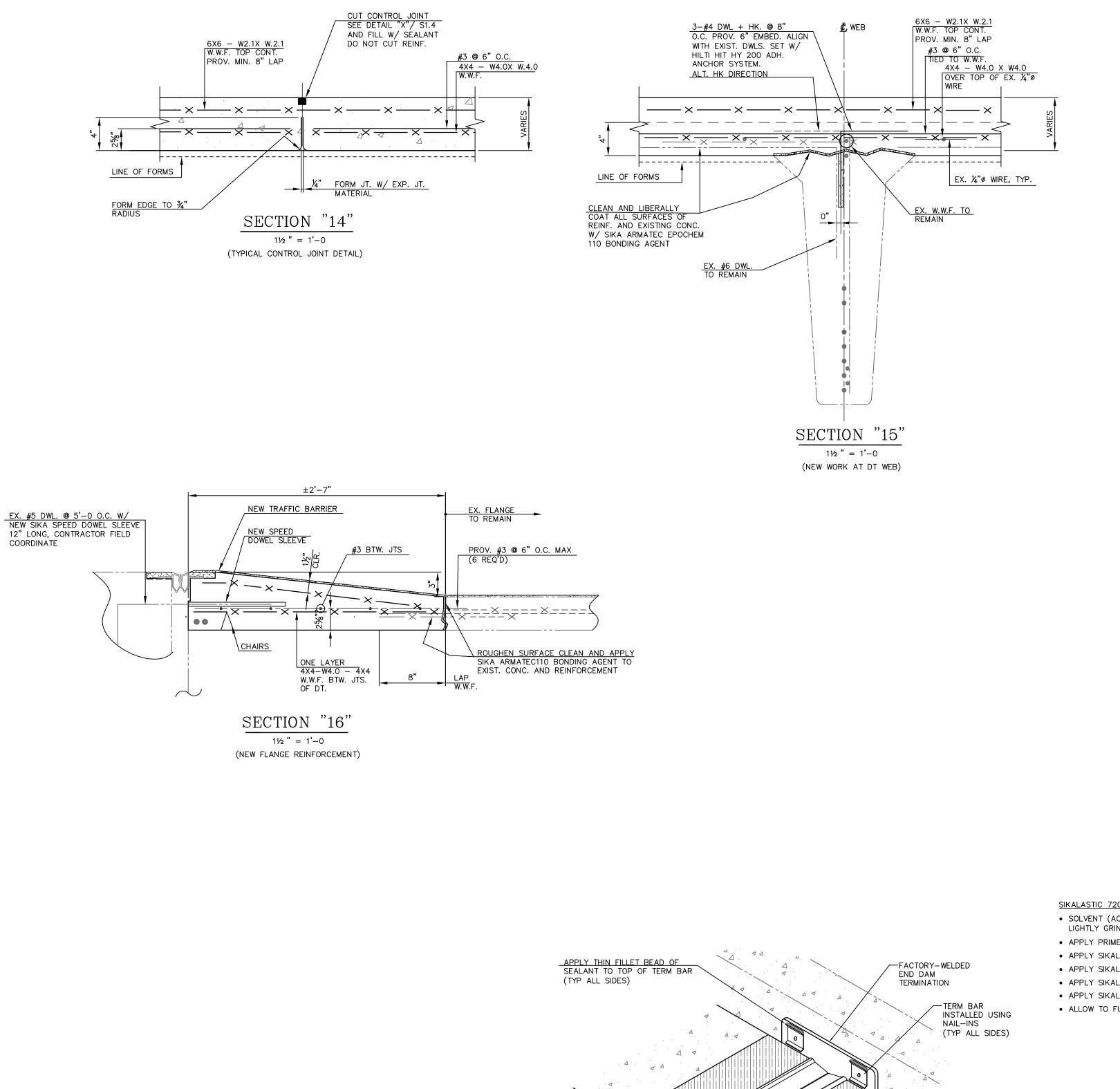
Periodic

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SEE TRAFFIC BARRIER NOTES AND TYP. DETAIL

∠ P.C. DECK →

SEALING GLAND THERMAFLEX TM 2.5

SLAB ON GRADE >

TYPICAL EXPANSION JOINT DETAIL

6" = 1'-0

ELEVATED SLAB REPAIR NOTES:

- 1. The purpose of this work is to remove and replace the delaminated C.I.P. wash and precast flange and the 2" of unsound precast concrete below the C.I.P. wash. New connections to support the flange have been made at the expansion joint/ ramp to provide additional support of the plank edge. As part of the work, a new preformed expansion joint is specified to replace the existing joint in disrepair. The new prophylactic barrier coating will extend to the edge of the new expansion joint on the elevated parking deck side and inhibit
- 2. Reference notes on sheet S1.3 for new traffic barrier.
- 3. See part plan 3/ S1.2 for area of concrete repair and details on sheet S1.5 & S1.6 for demolition work, forming and new work.
- 4. All vertical and horizontal surfaces receiving new concrete shall be intentionally roughened to $\frac{1}{4}$ " amplitude, cleaned with wire brush, water, and compressed air.
- 5. All existing reinforcement to remain shall be cleaned to remove cement, rust or other latent
- 6. All concrete and existing reinforcement to remain shall receive a liberal coating of Sika Armetec Epochem 110 bonding agent applied in accordance with manufacturer's recommendations prior to concrete placement.
- 7. Application of cementicious materials shall take place when air temperature is a minimum 45 degrees Fahrenheit and rising and is forecast to remain above 45 degrees F for the following 24 hours. Note that substrate shall have attained a minimum temperature of 40 degrees F before beginning application.
- 8. All material applications shall be prepared, applied and cured in accordance with the manufacturer's recommendations.

Expansion Joint Repair Notes:

- 9. Remove all loose and deteriorated concrete from existing pourstrip by mechanical means. Jack hammering is not permitted. Edges shall be vertical and preferably saw-cut.
- 10. Cut new blockout in slab on grade, and form new blockout on precast side of joint to proper in plane alignment. Form joint surfaces (sloped vertical) to align in accordance with manufacturer's recommendations.
- 11. Pour and cure new concrete.
- 12. Clean joint and blocks thoroughly, remove loose and foreign matter that could impair adhesion and performance, follow manufacturer's guidelines in preparation of blockouts receiving nosing material simply blowing off the concrete is not enough. Blockouts must be clean and free grease, dirt, moisture or any other contaminants. Using a dry adhesive blast, clean and expose the course aggregate or grind according to EMSEAL.
- 13. Tape off edges of each side of joint and mask the upper and lower deck with paper as required to protect from spillage.
- 14. Wipe the blockout with solvent, and prime the blockout with EMPRIME apply enough
- material to visibly wet the surface but avoid ponding of primer. 15. Install joint seal in accordance with Sika Emseal instructions and approved Shop Drawings.
- 16. Remove joint seal from recompressed packaging, solvent wipe the bottom flanges of the
- sealing gland, immediately insert into joint, and allow to expand. 17. Use temporary retainers if required to maintain joint seals in position until expansion is complete
- 18. Solvent wipe the top surfaces of the sealing gland flanges.
- 19. Measure and mix the nosing material according to manufacturer recommendations.
- 20. Place "under-flange" nosing material into blockouts and trowel see manufacturer specific guidelines on placement.
- 21. Pour 2nd pour of nosing material to fill blockouts and trowel screed to level.
- 22. Remove tape and paper, and cleanup.
- 23. Prepare elevated surface side of the new joint to receive a traffic bearing coating, see "TYPICAL EXPANSION JOINT TRAFFIC COATING DETAIL" this sheet

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SSUED FOR: REV DATE DESCRIPTION 12/15/23 FOR BID

DRAWING TITLE SECTIONS AND REPAIR NOTES

12.15.23 BD/TCY

SIKALASTIC 720/745 TRAFFIC SYSTEM/ EMCRETE INTEGRATION STEPS:

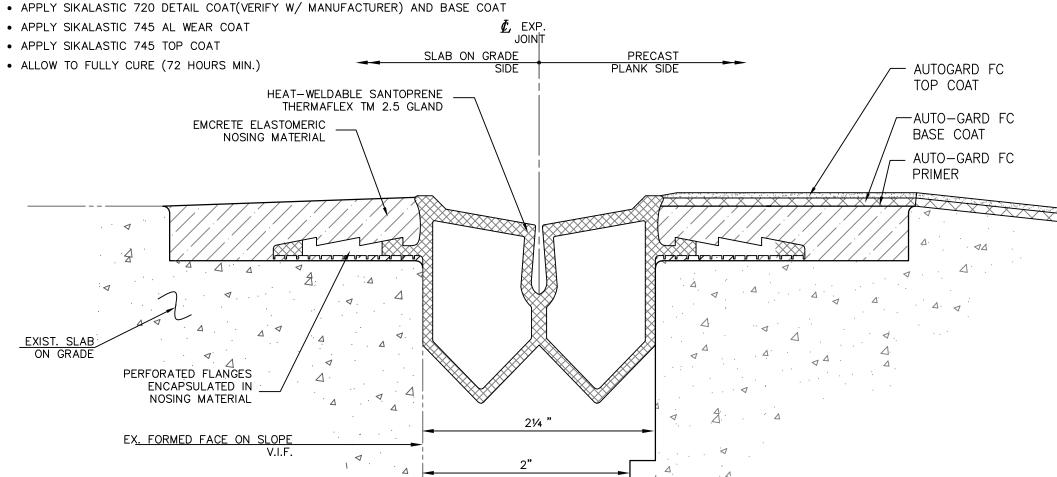
- SOLVENT (ACETONE) WIPE EMCRETE (IF LONGER THAN 4 HOURS AFTER PLACEMENT OF EMCRETE:
- LIGHTLY GRIND THE TOP OF EMCRETE, THEN SOLVENT WIPE)
- APPLY PRIMER (VERIFY W/ MANUFACTURER)
- APPLY SIKALASTIC 720 BASE COAT
- APPLY SIKALASTIC 745 AL WEAR COAT

-EMCRETE ELASTOMERIC NOSING MATERIAL

PERFORATED FLANGES ENCAPSULATED

IN NOSING MATERIAL (NOSING NOT

APPLY SIKALASTIC 745 TOP COAT



TYPICAL EXPANSION JOINT

N.T.S.

SHOWN FOR CLARITY)

END DAM TERMINATION DETAIL

TYPICAL TRAFFIC BARRIER DETAIL

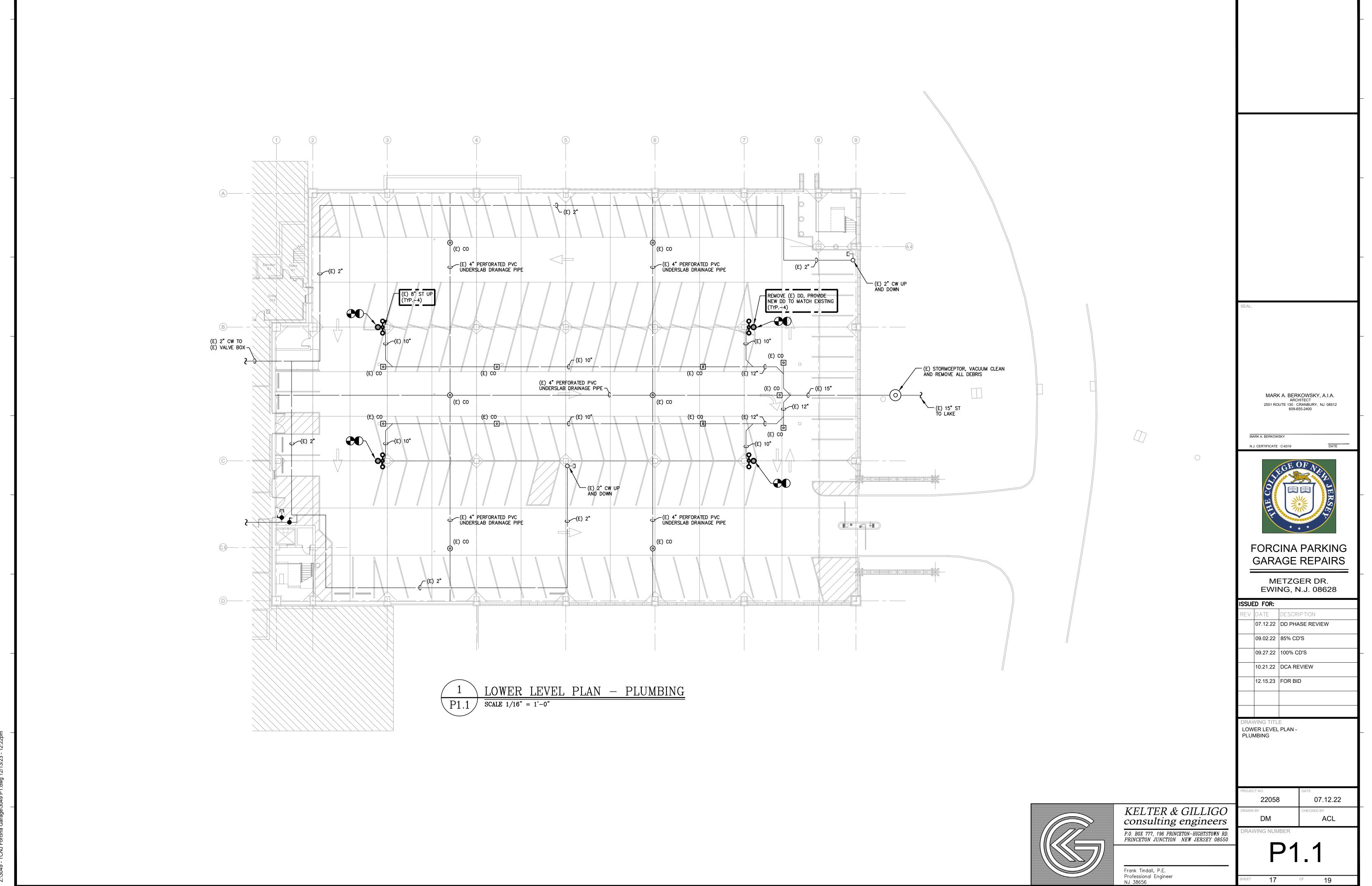
N.T.S.

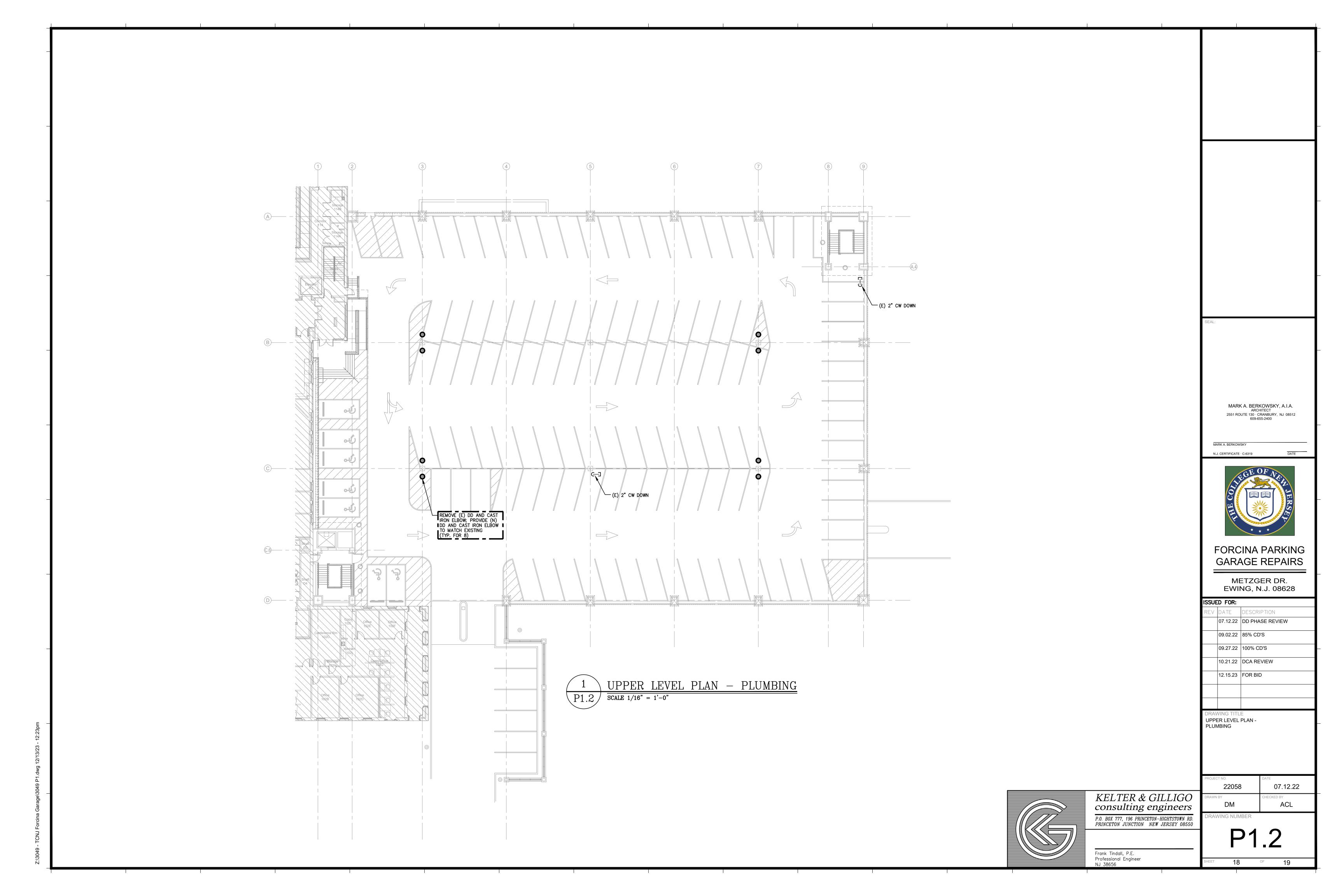
LEONARD BUSCH ASSOCIATES CONSULTING ENGINEERS 626 JACKSONVILLE RD., STE 100A, WARMINSTER, PA 18974

LBA JOB NUMBER 72053

16 OF 19

DRAWING NUMBER





PLUMBING SPECIFICATIONS:

1. SCOPE OF WORK

- STORM DRAINAGE PIPING. PARKING DECK DRAINS.
- REMOVALS. SUBMITTALS.
- PERMITS. WARRANTY.

2. STANDARDS AND CODES

- NEW JERSEY UNIFORM CONSTRUCTION CODE INTERNATIONAL BUILDING CODE 2020, NEW JERSEY EDITION
- NATIONAL STANDARD PLUMBING CODE 2020 LOCAL MUNICIPAL UTILITY AUTHORITY
- LOCAL WATER COMPANY RULES AND REGULATIONS OTHER STATE AND LOCAL AUTHORITIES HAVING JURISDICTION

3. MATERIALS:

GROUND

A. PIPE AND FITTINGS

1. PIPE

<u>SERVICE</u>	MATERIAL	SCHEDULE	<u>DESIGNATION</u>
SOIL, WASTE & VENT ABOVE GROUND	NO-HUB CAST IRON	STANDARD WEIGHT	CISPI-30-7B
SOIL, WASTE & VENT BELOW	CAST IRON HUB & SPIGOT	STANDARD WEIGHT	ASTM A-74

FITTINGS

SERVICE	SIZE	MATERIAL	WEIGHT	<u>TYPE</u>
SOIL, WASTE & VENT ABOVE GROUND	ALL	CAST IRON	STANDARD WEIGHT	NO-HUB ASTM A-48 MG COUPLING ASSEMBL' OR STAINLESS STEEL EQUAL TO CLAMP-ALL
SOIL, WASTE & VENT BELOW GROUND	ALL	CAST IRON	STANDARD WEIGHT	ASTM C-565 65T COMPRESSION GASKET

DISSIMILAR METALS: PIPE, FITTINGS, HANGERS, ETC. DISSIMILAR METALS SHALL BE INSULATED AGAINST DIRECT CONTACT WITH EACH OTHER, BY USING A HIGH QUALIT OR GRADE OF DIELECTRIC MATERIAL.

4. SUBMITTALS:

- A. SHOP DRAWINGS SHALL BE REQUIRED FOR:
 - ALL EQUIPMENT, MATERIALS, MEANS & METHODS INTENDED FOR USE UNDER THIS CONTRACT.
- PRIOR TO DELIVERY TO JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW ARCHITECT AMPLE TIME FOR REVIEW, SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT, FIXTURES, MATERIALS, PIPING, SLEEVES, WIRING DIAGRAMS, ETC. AND FURTHER OBTAIN WRITTEN COMMENTS OF "APPROVED" OR "APPROVED AS NOTED" FOR SAME FROM ARCHITECT BEFORE INSTALLING ANY OF THESE ITEMS.
- SHOP DRAWINGS SHALL CONSIST OF MANUFACTURER'S CERTIFIED SCALE DRAWINGS. CUTS, OR CATALOGS, INCLUDING DESCRIPTIVE LITERATURE AND COMPLETE CERTIFIED CHARACTERISTICS OF EQUIPMENT, FIXTURES, ETC. SHOWING DIMENSIONS, CAPACITY, CODE REQUIREMENTS, MOTOR AND DRIVE TESTING, AS INDICATED IN THE CONTRACT DOCUMENTS.
- FAILURE TO SUBMIT SHOP DRAWINGS IN AMPLE TIME FOR CHECKING SHALL NOT ENTITLE AN EXTENSION OF CONTRACT TIME, AND NO CLAIM FOR EXTENSION BY REASON OF SUCH DEFAULT SHALL BE ALLOWED.
- PRIOR TO SUBMISSION OF SHOP DRAWINGS CONTRACTOR SHALL THOROUGHLY CHECK EACH SHOP DRAWING, REJECT THOSE NOT CONFORMING TO THE SPECIFICATIONS, AND INDICATE BY SIGNED, WRITTEN DECLARATION THAT THE SHOP DRAWINGS SUBMITTED MEET CONTRACT REQUIREMENTS.
- THE COMMENT "APPROVED" OR "APPROVED AS NOTED" RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR BUILDING CONDITIONS. WHERE DRAWINGS ARE REVIEWED, SAID REVIEW DOES NOT IN ANY WAY RELIEVE THE RESPONSIBILITY, OR NECESSITY, OF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DRAWINGS
- "APPROVED AS NOTED" MEANS, UNLESS OTHERWISE NOTED ON THE DRAWINGS, TO APPROVE FOR CONSTRUCTION, FABRICATION, AND/OR MANUFACTURE SUBJECT TO THE PROVISION THAT THE WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH ALL ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- WHERE THE COMMENT "APPROVED AS NOTED" INCLUDES DIRECTION TO THE CONTRACTOR TO RESUBMIT CORRECTED SHOP DRAWING FOR RECORD, FAILURE TO COMPLY WITH THE INSTRUCTION TO RESUBMIT RECORD COPY SHALL RENDER THE APPROVAL NULL AND VOID.

<u>5</u> <u>PERMITS AND INSPECTIONS:</u>

A. TCNJ SHALL ACQUIRE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE EXECUTION OF THIS CONTRACT.

B. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH TCNJ.

<u>6. WARRANTY:</u>

- A. CONTRACTOR SHALL:
- UNCONDITIONALLY WARRANTY HIS WORK TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
- a. ANY DEFECTS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST.
- 2. ALL EQUIPMENT SHALL CARRY THE ORIGINAL MANUFACTURER'S WARRANTY AS SPECIFIED IN THE MANUFACTURER'S WARRANTY DOCUMENTATION PROVIDED WITH THE EQUIPMENT. WARRANTY PERIOD SHALL BE CALCULATED FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
 - a. ANY DEFECTS SHALL BE REPAIRED OR REPLACED AT THE DISCRETION OF THE MANUFACTURER.

7. EXECUTION:

A. CONCEALED PIPING

- ALL PIPING INSTALLED IN FINISHED AREAS SHALL BE COMPLETELY CONCEALED WITHIN HUNG CEILINGS, FURRING, SOFFITS, PIPE SPACES, ETC.
- 2. ALL PIPING, ETC. SHALL BE COMPLETELY TESTED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION BEFORE ANY CONCEALMENT BEGINS.

8. ALTERATION WORK

- A. ALL EQUIPMENT, PIPING, PLUMBING FIXTURES, ETC. TO BE REMOVED SHALL BE DISPOSED OF, TURNED OVER TO OWNER OR SALVAGED AS DIRECTED. THEY SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT APPROVAL.
- B. ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED SO THAT, UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
- C. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION
- D. EXISTING EXPOSED PIPING NOT REUSED AND NOT SPECIFICALLY NOTED OR SHOWN ON DRAWING TO BE ABANDONED SHALL BE COMPLETELY REMOVED.
- E. THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UNTIL COMPLETION OF ALL NEW WORK.
- F. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED ON THE JOB.
- G. NO REMOVED EXISTING PIPING, ETC. SHALL BE REUSED.
- H. DO NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING, NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT EXPRESS PERMISSION OF THE OWNER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE DESIGNATED TIMES.
- UNDER NO CIRCUMSTANCES SHALL WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES.
- REROUTE OR REMOVE ALL EXISTING PIPING EXPOSED TO VIEW WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

- A. FURNISH ALL TESTING INSTRUMENTS, GAUGES, PUMPS, AND ALL OTHER EQUIPMENT NECESSARY TO PERFORM TESTS.
- B. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE REPRESENTATIVES OF THE ARCHITECT, THE OWNER AND THE PLUMBING INSPECTOR. GIVE NOT LESS THAN 5 DAYS NOTICE.

C. TEST

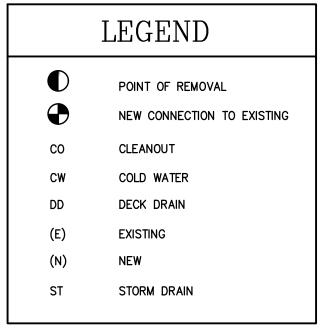
- 1. DRAINAGE AND VENT PIPING: TEST WITH WATER AT 10
- 2. DOMESTIC WATER: TEST WITH WATER AT 125 PSI.

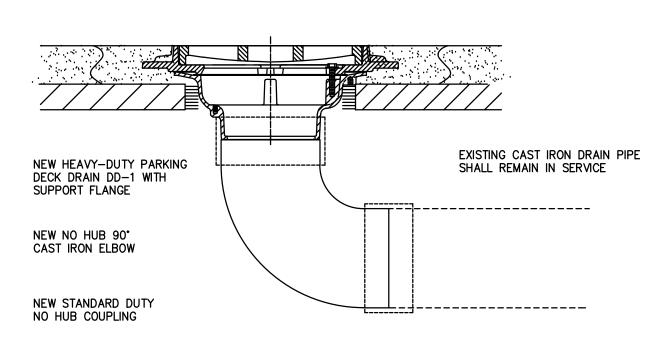
10. PIPE INSTALLATION

- A. RUN PIPING GENERALLY PARALLEL TO THE AXIS OF THE BUILDING, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCE OF DUCTS. FLUES. CONDUITS AND WORK OF OTHER TRADES AND CLOSE TO CEILING OR OTHER CONSTRUCTION AS PRACTICAL, FREE OF TRAPS OR BENDS.
- PROVIDE ADDITIONAL OFFSETS, FITTINGS, VALVES, DRAINS, ETC. WHERE REQUIRED BY CONSTRUCTION AND WORK OF OTHER
- C. RUN IN CHASES, RECESSES, SHAFTS, HUNG CEILINGS AND BEAM CUTS WHERE APPLICABLE. DO NOT COVER BEFORE EXAMINATION AND TESTING. NO PIPING IN FLOOR FILL UNLESS NOTED OR
- D. RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND OTHER PIPING, NEATLY SPACED AND WITH PLUMB RISERS. MAINTAIN MAXIMUM HEADROOM.
- PROVIDE REDUCING FITTINGS FOR CHANGES IN PIPE SIZE. NO BUSHINGS ARE PERMITTED.

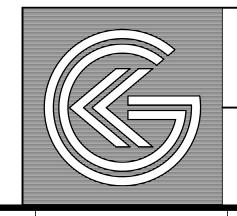
PLUMBING SYMBOL LIST					
ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	SYMBOL	DESCRIPTION
CW		COLD WATER PIPING			NEW CONNECTION TO EXISTING
(E) ST	<u> </u>	EXISTING STORM PIPING			NEW CONNECTION TO EXISTING
			со		CLEANOUT

PLUMBING DRAIN SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER MODEL	LOCATION	REMARKS
<u>DD-1</u>	PARKING DECK DRAIN	ZURN Z536	LOWER LEVEL UPPER LEVEL	CAST IRON BODY, NO—HUB OUTLET POLISHED NICKEL BRONZE TOP, HEEL—PROOF GRATE VANDAL—PROOF SECURED TOP, SEDIMENT BUCKET









KELTER & GILLIGO consulting engineers P.O. BOX 777, 196 PRINCETON-HIGHTSTOWN RD. PRINCETON JUNCTION NEW JERSEY 08550

19 OF 19

07.12.22

MARK A. BERKOWSKY, A.I.A.

2551 ROUTE 130 · CRANBURY, NJ 08512

FORCINA PARKING

GARAGE REPAIRS

METZGER DR. EWING, N.J. 08628

V DATE DESCRIPTION

09.02.22 | 85% CD'S

09.27.22 | 100% CD'S

10.21.22 DCA REVIEW

12.15.23 | FOR BID

SPECIFICATIONS - PLUMBING

SCHEDULES AND

22058

WING NUMBER

DM

07.12.22 DD PHASE REVIEW

DATE

MARK A. BERKOWSKY

N.J. CERTIFICATE · C-6319

ISSUED FOR:

Frank Tindall, P.E.

Professional Engineer NJ 38656