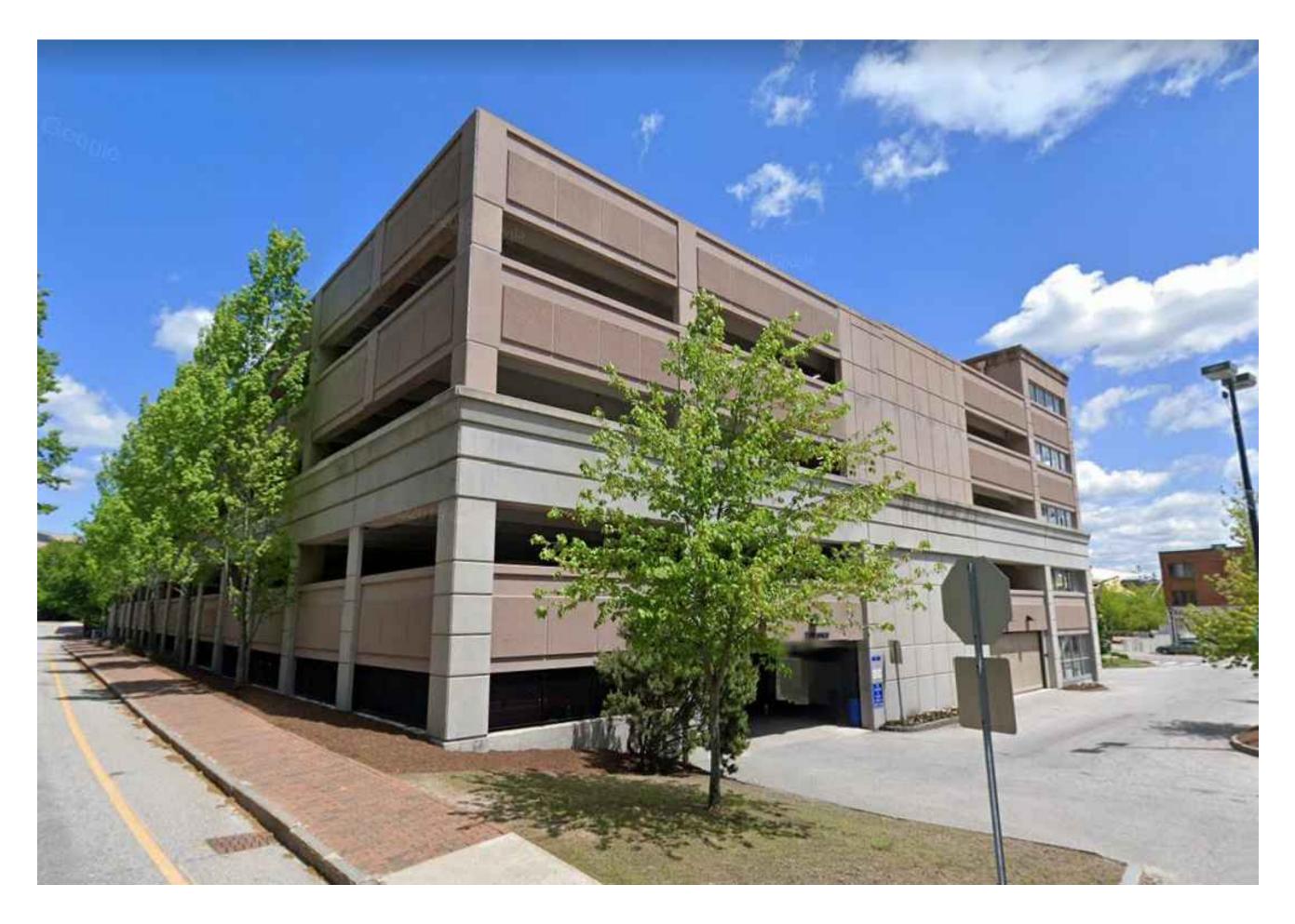
# MECHANICS ROW PARKING GARAGE PHASE 5 REPAIRS • AUBURN, MAINE •



**ENGINEER:** 



## DRAWING LIST:

- S1.0 GENERAL NOTES
- S1.1 LEVEL 2
- S1.2 LEVEL 3
- S1.3 LEVEL 4
- S2.1 REPAIR SECTIONS AND DETAILS
- S2.2 REPAIR SECTIONS AND DETAILS
- S2.3 REPAIR SECTIONS AND DETAILS

ISSUED FOR BIDDING NOVEMBER, 26, 2019

### GENERAL NOTES:

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES. INCONSISTENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- ALL WORK SHALL COMPLY WITH THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE 2. (IBC) AND 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC). THE SCOPE OF WORK OUTLINED HAS BEEN EVALUATED AS A REPAIR WITH LESS THAN SUBSTANIAL STRUCTURAL DAMAGE PER THE IEBC.
  - A. ORIGINAL DESIGN LOADS (CODE): 50 PSF (BOCA 1990) CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT USED DOES NOT EXCEED EXISTING BUILDING DESIGN LOADS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- 4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS.
- THE REPAIRS TO THIS STRUCTURE HAVE BEEN DESIGNED TO RE-ESTABLISH THE STRUCTURAL INTEGRITY OF THE STRUCTURE AFTER THE REPAIRS ARE COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND IT'S COMPONENTS DURING THE RESTORATION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, TEMPORARY PARTITIONS, VEHICLE AND PEDESTRIAN PROTECTION, GUYS OR TIE DOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF PROJECT.
- SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS 6. DETERMINED BY THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SUBMITTALS (AS NOTED IN THE SPECIFICATIONS) 7. FOR ALL PARTS OF THE WORK INCLUDING DESCRIPTION OF SHORING AND CONSTRUCTION METHODS AND SEQUENCING, WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE STRUCTURAL ENGINEER
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, 8. INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO VEHICLES, PROPERTY AND 9. PUBLIC CAUSED BY THEIR WORK.
- 10. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND GOVERNMENT FEES AS REQUIRED. THE CONTRACTOR SHALL COMPLY WITH CODES, ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS OF THE PUBLIC AUTHORITY, WHICH BEAR ON THE PERFORMANCE OF THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING THE PROJECT. A 11. SCHEDULE FOR SPACES REQUIRED SHALL BE PRESENTED TO THE OWNER OR GARAGE MANAGER ONE WEEK IN ADVANCE AND UPDATED WEEKLY DURING THE PROJECT.
- 12. THE EXISTING BUILDING SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONTROLS NECESSARY TO ALLOW FOR THE BUILDING OPERATIONS.
- 13. CONTRACTOR SHALL PROVIDE AND MAINTAIN REQUIRED DUST BARRIERS, BARRICADES, PROTECTION AND WARNING LIGHTS IN GOOD WORKING CONDITION UNTIL COMPLETION OF WORK REQUIRING SUCH PROTECTION AND THEN REMOVE THE SAME. ALL SIGNS, BARRIERS, AND BARRICADES SHALL COMPLY WITH FEDERAL STATE AND LOCAL LAWS AND REGULATIONS.
- 14. CONTRACTOR SHALL MAINTAIN PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL AND RUBBISH. PRECAUTIONS SHOULD BE TAKEN TO MINIMIZE DUST FROM ENTERING THE BUILDING. ALL DUST AND DEBRIS CREATED BY THE WORK WITHIN THE BUILDING SHALL BE REMOVED AND THE WORK AREAS CLEANED.
- 15. CONTRACTOR SHALL DETERMINE THE NEED FOR ALL DISCONNECTION AND/OR TEMPORARY OR PERMANENT REROUTING OF EXISTING UTILITIES, INCLUDING ELECTRICAL AND PLUMBING AND COORDINATE WITH THE GARAGE OWNER/MANAGER.
- 16. IF WORK RESTRICTS ACCESS TO ANY MEANS OF EGRESS CONTRACTOR SHALL SUPPLY ALL TEMPORARY SIGNAGE, BARRIERS TO REDIRECT PATRONS TO THE NEAREST EXIT OR DOWN THE RAMP. A MINIMUM OF ONE STAIR TOWER MUST REMAIN COMPLETELY ACCESSIBLE DURING THE WORK. IF ACCESSE TO THE ELEVATOR IS RESTRICTED AT ANY LEVEL PROVIDE SIGNAGE INDICATING NO ACCESSIBLE PARKING ON THAT LEVEL.
- 17. 50 PARKING SPACES WILL BE AVAILABLE TO THE CONTRACTOR MONDAY THROUGH FRIDAY. ADDITIONAL PARKING SPACES ARE AVAILABLE ON THE WEEKEND OR AFTER NORMAL BUSINESS HOURS. CONTRACTOR TO PROVIDE ALL TRAFFIC CONTROL DURING CONSTRUCTION.

### CONCRETE NOTES

- 301, LATEST EDITION)."
- 3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- 4. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE
- SHALL BE AS FOLLOWS: A) CONCRETE SLABS: 1.5"
- 7. WELDING OF REINFORCEMENT IS NOT PERMITTED.

### ABBREVIATIONS:

- CIP CAST IN PLACE CONCRETE CJ – CONTROL/CONSTRUCTION JOINT DT – PRECAST DOUBLE TEE EJ – EXPANSION JOINT FD — FLOOR DRAIN IT BM – PRECAST INVERTED TEE BEAM LBS – PRECAST LOAD BEARING SPANDREL LW – PRECAST LITEWALL NLBS – PRECAST NON LOAD BEARING SPANDREL PC – PRECAST SOG – SLAB ON GRADE SW - PRECAST SHEAR WALL DT SHEAR CONNECTION REPAIR WORK CODES XD – DOUBLE BAR SHEAR CONNECTION XM – MISSING SHEAR CONNECTION XB – BROKEN OVERHEAD CONNECTION
- XR RUSTED OVERHEAD CONNECTION

### 1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318, LATEST EDITION)," AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI

2. GENERAL CONTRACTOR, CONSTRUCTION MANAGER OR OWNER'S CLERK OF THE WORKS SHALL HAVE AVAILABLE ON SITE AT ALL TIMES A COPY OF ACI "FIELD REFERENCE MANUAL SP-15".

DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.

6. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE,

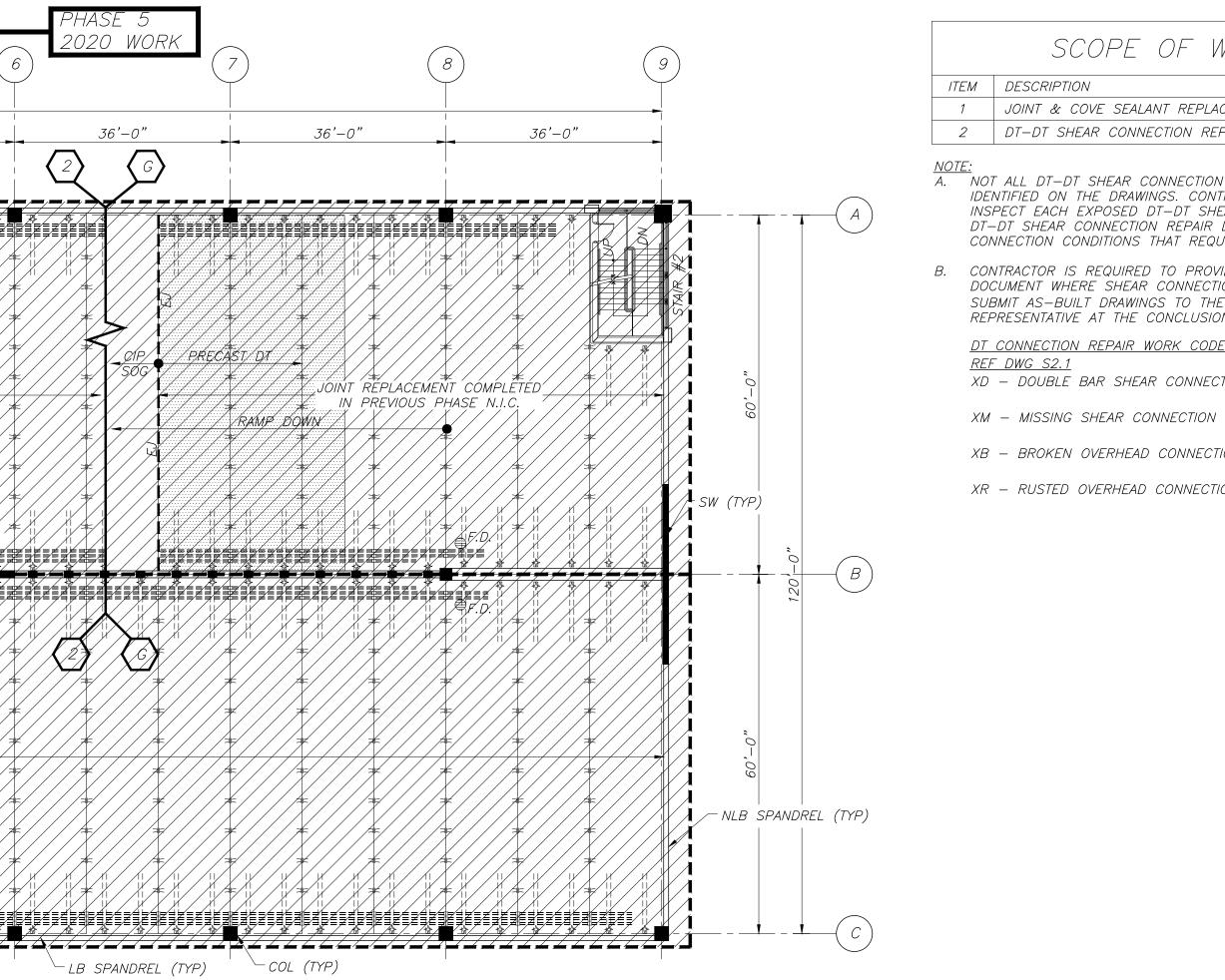
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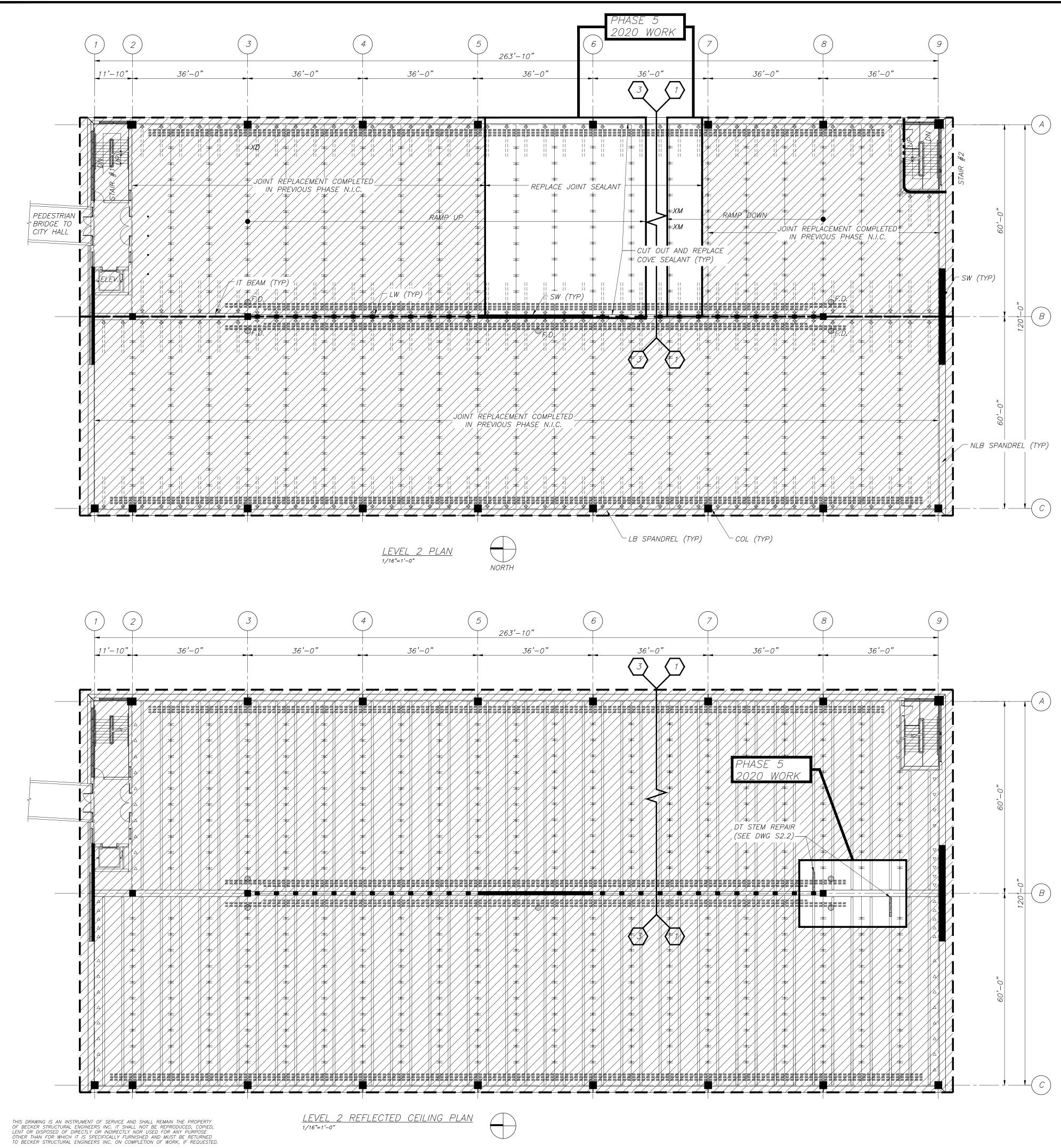
<u>LEVEL 1 PLAN</u> 1/16"=1'-0"



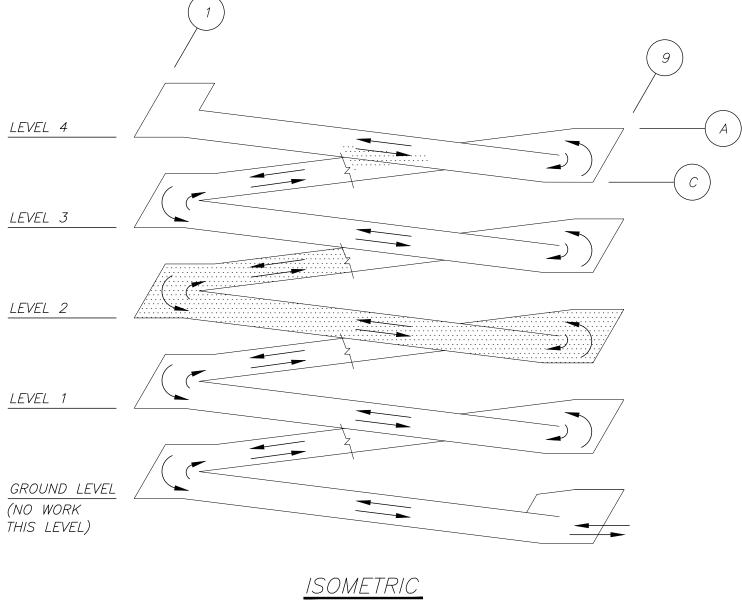
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND SHALL REMAIN THE PROPERTY OF BECKER STRUCTURAL ENGINEERS INC. IT SHALL NOT BE REPRODUCED, COPIED, LENT OR DISPOSED OF DIRECTLY OR INDIRECTLY NOR USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SPECIFICALLY FURNISHED AND MUST BE RETURNED TO BECKER STRUCTURAL ENGINEERS INC. ON COMPLETION OF WORK, IF REQUESTED.

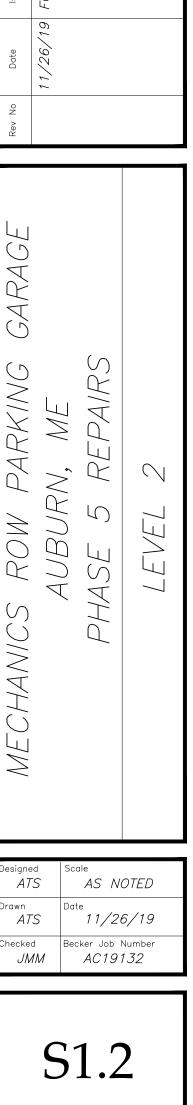


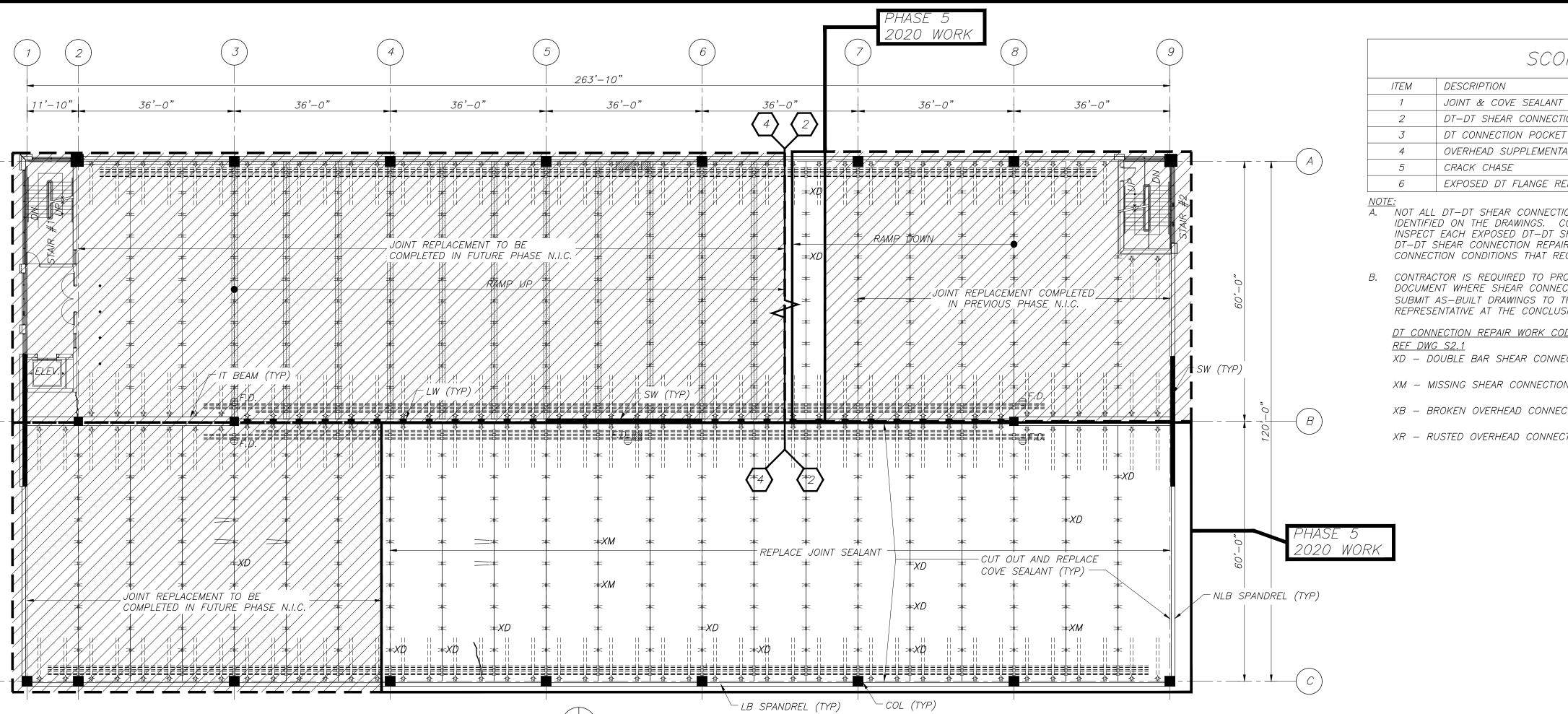
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CP - CAST IN PLACE CONCRETE SIG = SLAB ON SHARE IS = PRICOST INDERED TEE BEIM LISE - PRICOST INDERED TEE BEIM DISS - PRICOST INDERED SPANDBEL SW - PRICOST SIGN MALL					SW – PRECAST S	SHEARWALL			
SCG - SLAG IN DENICE         II BA - PRECISE INVERTED THE REAM         IBS - PRECISE INVERTED THAT ENDER ISON TO I TOTO TRADEL         INES - PRECISE INFAR VALL         IN DEL A         IMECHANICS CARACE         IMECHANICS CARACE         IMECHANICS AND PARKING         Imechanics and parked					CJ – CONTROL/C	CONSTRUCTION JOINT			
Image:					CIP – CAST IN F	PLACE CONCRETE			
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	BROKEN OVERHEAD CONNECTION				△ DT TO SW/STAIR/NLB SPANDREL CONNECTION (UNDERSIDE OF DT)	₹
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					PHASE 5 REPAIR SCOPE OF WORK	
					EJ – EXPANSION JOINT	
					DT – PRECAST DOUBLE TEE	
					PC – PRECAST	
					LW - PRECAST LITEWALL	
					SW — PRECAST SHEARWALL	
					CJ – CONTROL/CONSTRUCTION JOINT	
					CIP – CAST IN PLACE CONCRETE	d For BID
					SOG – SLAB ON GRADE	FOR
					IT BM – PRECAST INVERTED TEE BEAM	/19
					LBS – PRECAST LOAD BEARING SPANDREL	Date 11/26/
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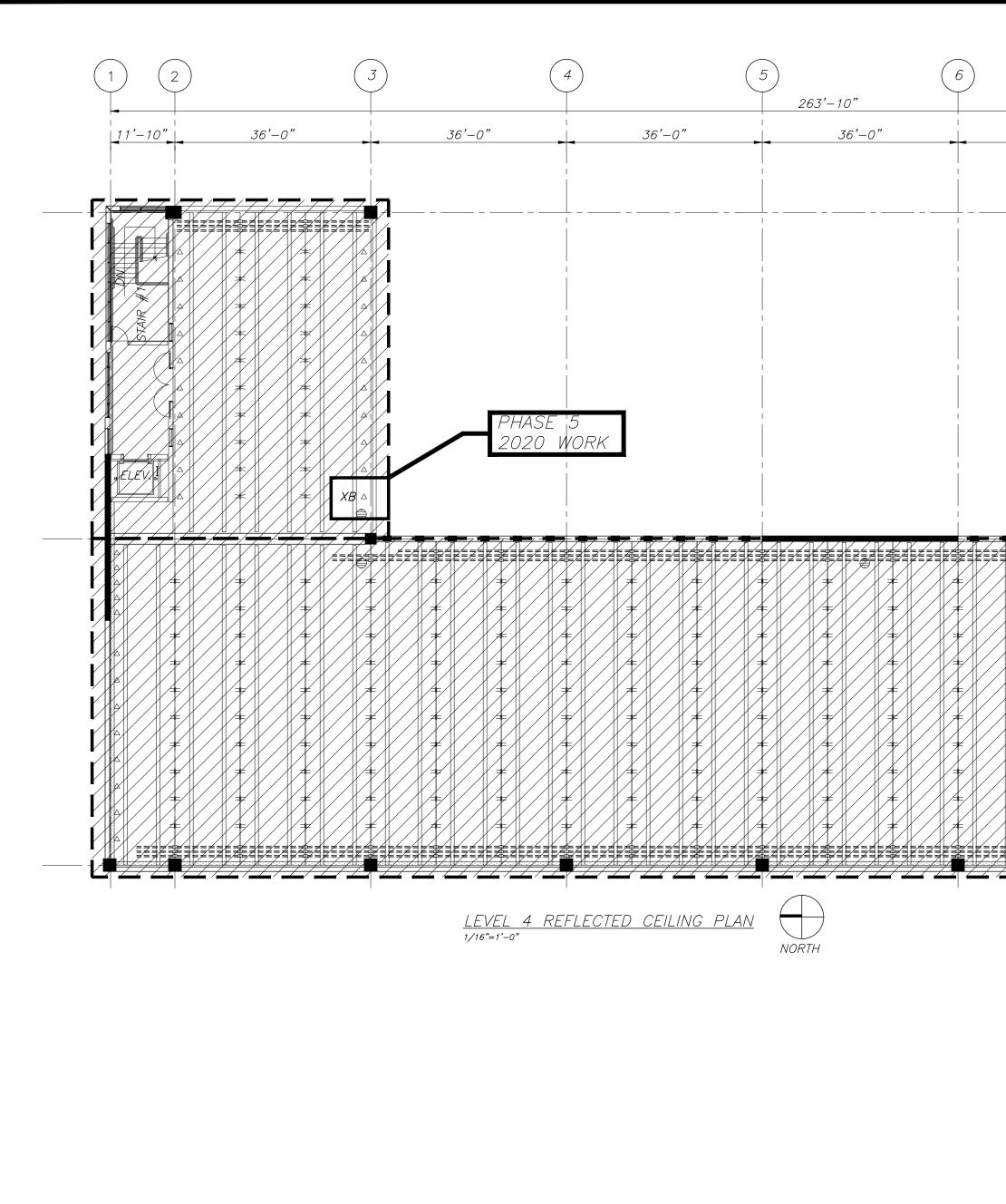


<u>LEVEL 3 PLAN</u> 1/16"=1'-0"

NORTH

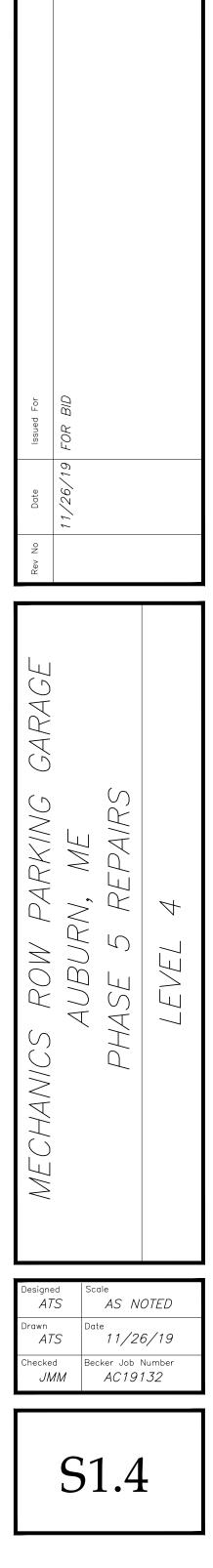
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			PHASE 5 REPAIR SCOPE OF WORK EJ – EXPANSION JOINT DT – PRECAST DOUBLE TEE PC – PRECAST LW – PRECAST LITEWALL SW – PRECAST SHEARWALL CJ – CONTROL/CONSTRUCTION JOINT CIP – CAST IN PLACE CONCRETE SOG – SLAB ON GRADE IT BM – PRECAST INVERTED TEE BEAM LBS – PRECAST LOAD BEARING SPANDREL NLBS – PRECAST NON–LOAD BEARING SPANDREL SW – PRECAST SHEAR WALL	Rev No     Date     Issued For       11/26/19     FOR BID	
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	LEVEL 4 LEVEL 3				MECHANICS ROW PARKING GARAGE AUBURN, ME



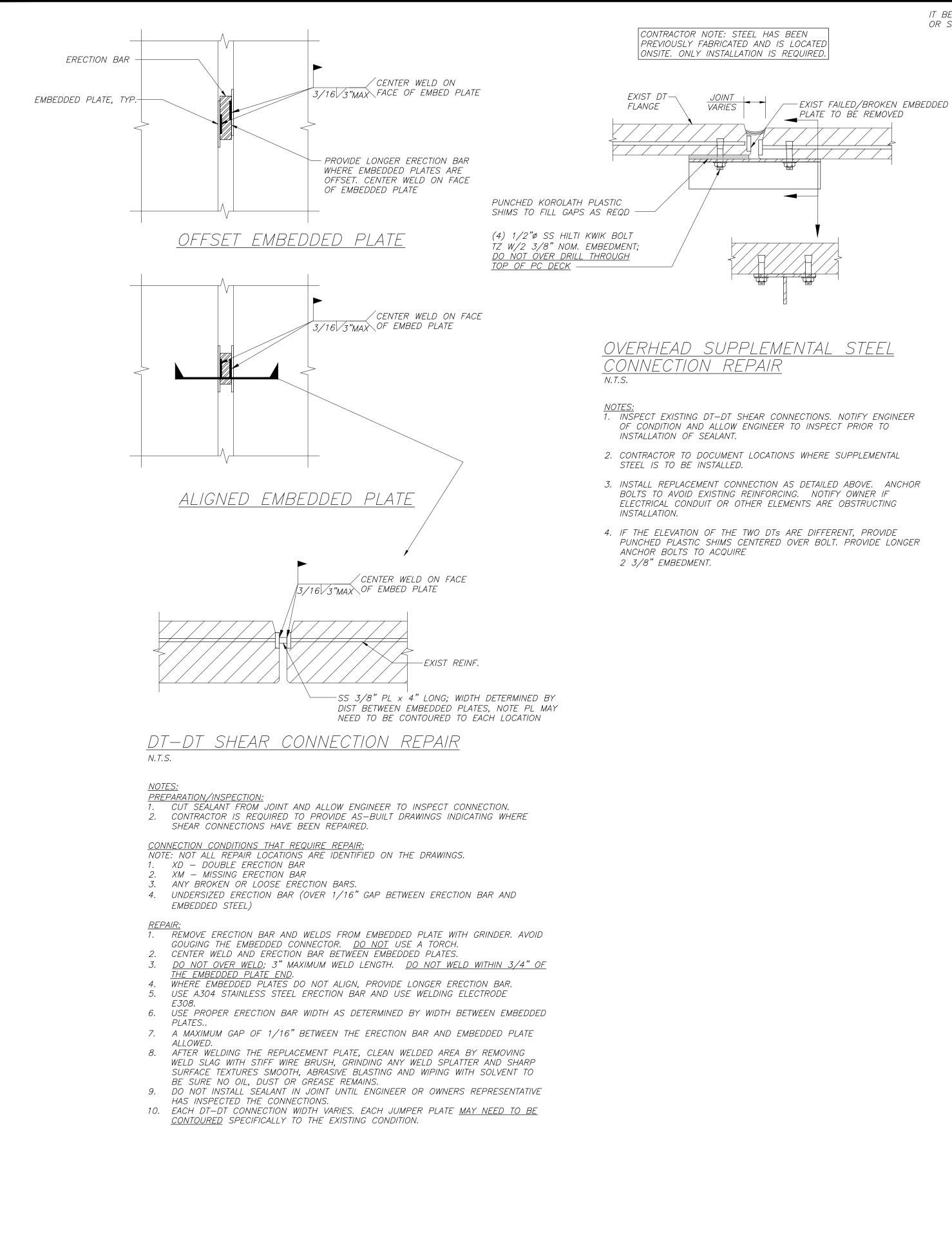
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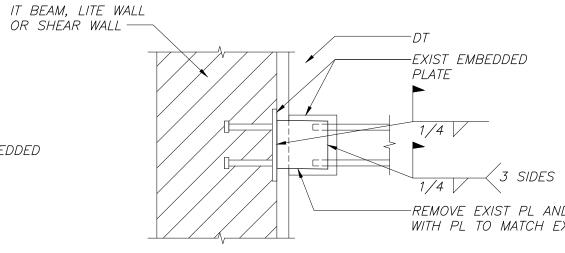
LEVEL 2

LEVEL 1

<u>GROUND LEVEL</u> (NO WORK THIS LEVEL)



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BOND BREAKER OVER -

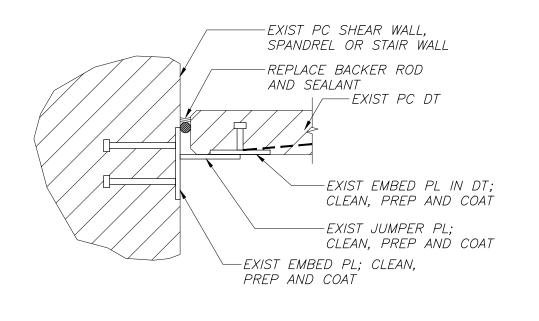
PLATE

REMOVE EXIST PL AND REPLACE WITH PL TO MATCH EXIST

### TYPICAL DT CONNECTION JUMPER PLATE REPLACEMENT DETAIL (XB)

### N.T.S.

- PLATE REPLACEMENT NOTES: GRIND THE WELDS AROUND THE JUMPER PLATE. AVOID GOUGING
- THE EMBEDDED STEEL. 2. GRIND THE WELDING SURFACE OF THE EMBEDDED ANGLE
- SMOOTH TO REMOVE THE REMNANT OF THE WELD. 3. ABRASIVE BLAST THE HORIZONTAL AND VERTICAL SURFACES OF THE EMBEDDED ANGLE AND ALL SURFACES OF THE
- REPLACEMENT PLATE TO SSPC-SP3, (POWER TOOL CLEAN). 4. AFTER WELDING THE REPLACEMENT PLATE, CLEAN WELDED AREA BY REMOVING WELD SLAG WITH STIFF WIRE BRUSH, GRINDING ANY WELD SPLATTER AND SHARP SURFACE TEXTURES SMOOTH, ABRASIVE BLASTING AND WIPING WITH SOLVENT TO BE SURE NO
- OIL, DUST OR GREASE REMAINS. 5. IMMEDIATELY COAT ALL EXPOSED STEEL SURFACES WITH (2) COATS OF ZINC-RICH COLD GALVANIZING COATING PER MANUFACTURERS RECOMMENDATIONS. APPLY AT MINIMUM DRY
- FILM BUILD OF 1.5 MILS PER COAT. 9. REFERENCE CONNECTION REPAIR DETAIL FOR CONCRETE REPAIRS AND SEALANT INSTALLATION.



### DT-SPANDREL, SHEAR AND STAIR WALL OVERHEAD CONNECTION REPAIR (XR) N.T.S.

### DT-SPANDREL, SHEAR AND STAIR WALL CONNECTION REPAIR NOTES PREPARATION/INSPECTION:

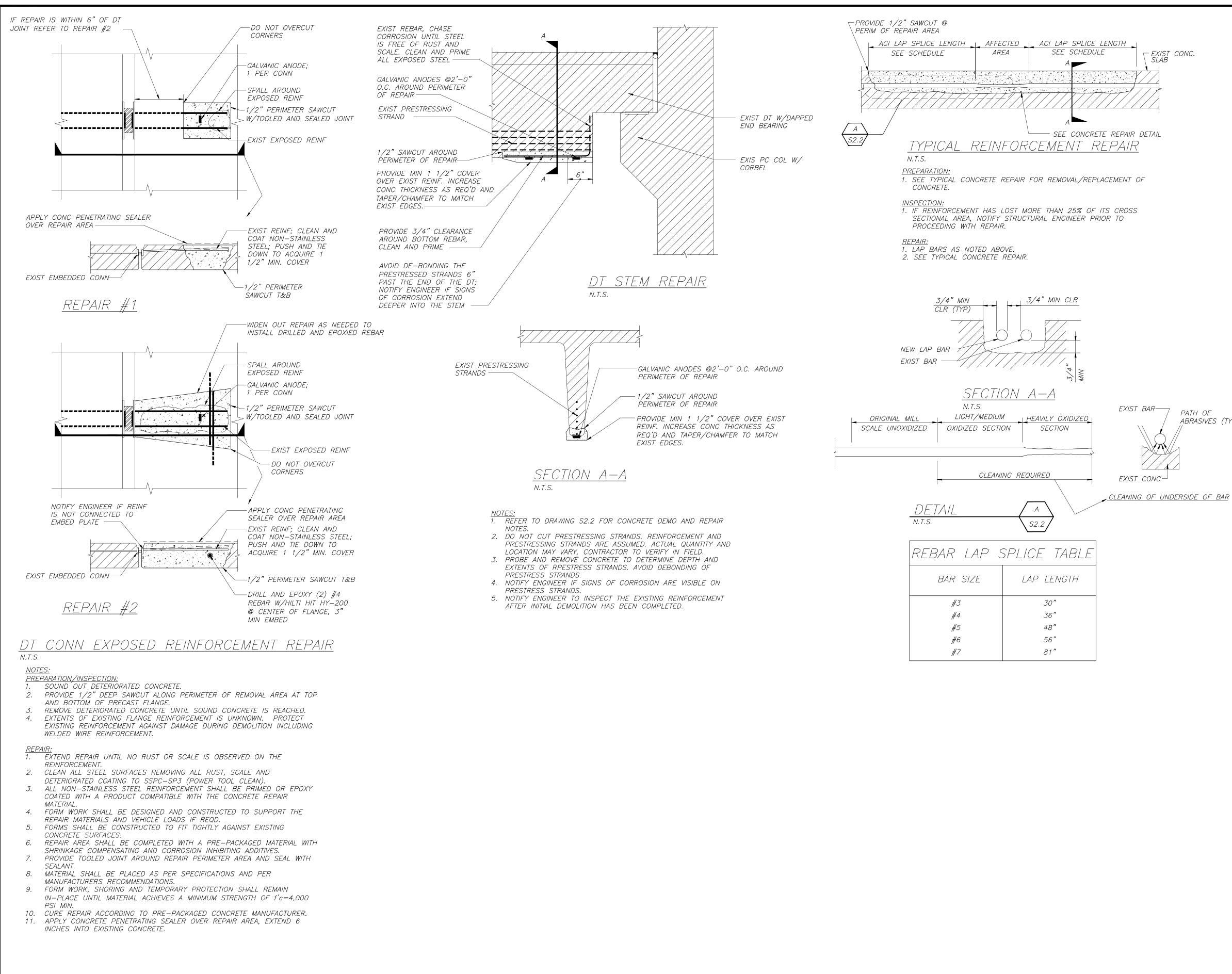
1. INSPECT EXISTING PL'S AND WELDS. NOTIFY ENGINEER IF THERE IS ANY VISIBLE DAMAGE. IF REPLACEMENT IS REQUIRED, REFERENCE "TYPICAL DT CONNECTION JUMPER PLATE REPLACEMENT DETAIL", THIS DWG.

### <u>REPAIR:</u>

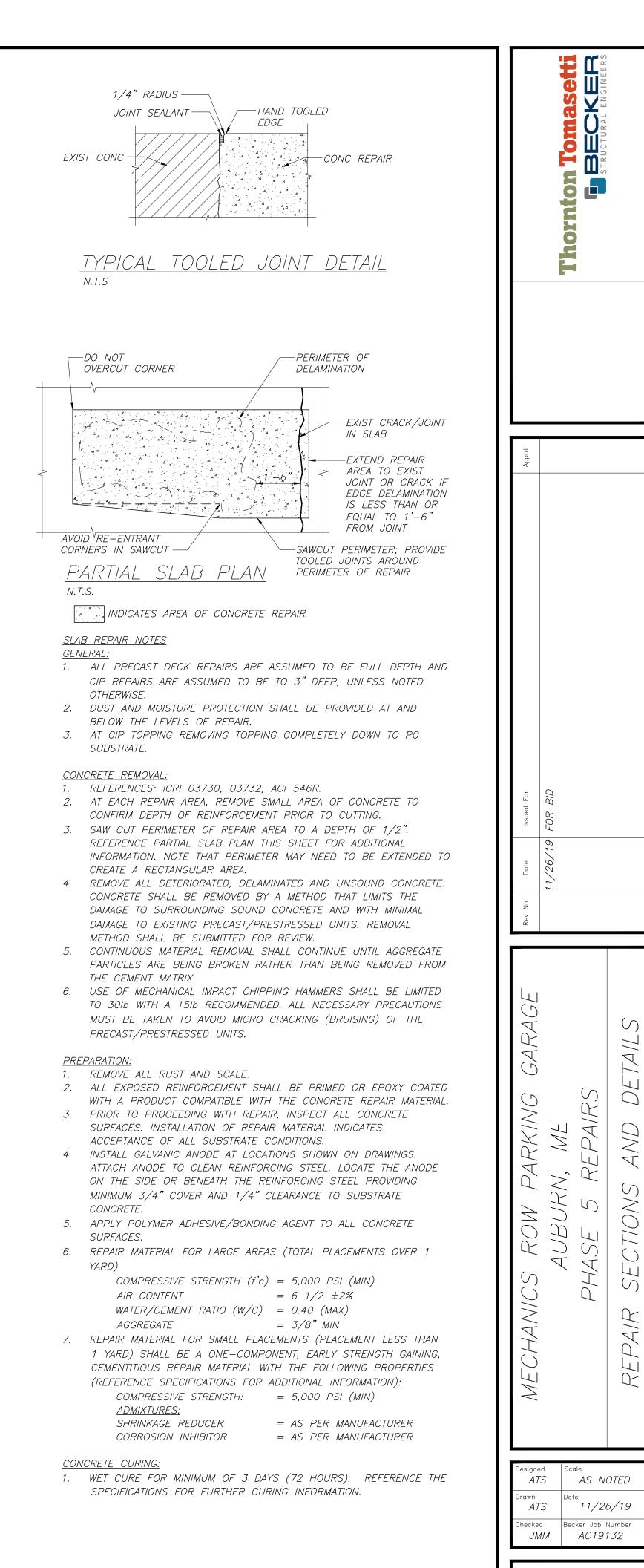
- CLEAN ALL STEEL SURFACES REMOVING ALL RUST, SCALE AND DETERIORATED COATING TO SSPC-SP3 (POWER TOOL CLEAN).
- IMMEDIATELY COAT ALL EXPOSED STEEL SURFACES WITH (2) 5. COATS OF ZINC—RICH COLD GALVANIZING COATING PER MANUFACTURERS RECOMMENDATIONS. APPLY AT MINIMUM DRY FILM BUILD OF 1.5 MILS PER COAT.

OND BREAKER OVER ATE CUT OUT AND REPLACE	GINERS
EXIST CIP TOPPING JOINT SEALANT/POCKET GRIND 1/4" CHAMFER (TYP) REMOVE DETERIORATED GROUT, IF SOUND LEAVE IN PLACE EXIST EMBED PL IN DT; CLEAN, PREP AND COAT IF EXPOSED EXIST JUMPER PL; CLEAN, PREP AND COAT IF EXPOSED EXIST EMBED PL; CLEAN, PREP AND COAT IF EXPOSED DURING CIP TOPPING REPAIR EXIST DT STEM	Thornton Toms Structural
DT-IT BEAM CONNECTION POCKET REPAIR N.T.S.	Apprd
<ul> <li>DT-IT BEAM CONNECTION REPAIR NOTES</li> <li>PREPARATION/INSPECTION:</li> <li>REMOVÉ ALL EXISTING SEALANT FROM JOINT AND CONNECTION POCKET.</li> <li>INSPECT EXISTING PL'S AND WELDS. NOTIFY ENGINEER IF THERE IS ANY VISIBLE DAMAGE. IF REPLACEMENT IS REQUIRED, REFERENCE SIMILAR DETAIL "TYPICAL DT CONNECTION JUMPER PLATE REPLACEMENT DETAIL", THIS DWG.</li> <li>INSPECT ALL CONCRETE SURFACES PRIOR TO APPLICATION OF PRIMERS/ADHESVES TO INSURE PROPER PREPARATION AND SURFACE DRYING.</li> <li>GRIND END OF DT AND CIP TOPPING AND ALL EDGES OF THE CONNECTION POCKET.</li> <li>REPAIR:</li> <li>CLEAN ALL PL SURFACES REMOVING ALL RUST, SCALE AND DETERIORATED COATING TO SSPC-SP3 (POWRE TOOL CLEAN).</li> <li>IMMEDIATELY COAT ALL EXPOSED STEEL SURFACES WITH (2) COATS OF ZRC COLD GALVANIZING PER MANUFACTURERS RECOMMENDATIONS.</li> <li>INSTALL BOND BREAKER OVER CONNECTION PL.</li> <li>INSTALL SEALANT, REFERENCE TYPICAL DETAIL DWG S2.3 FOR JOINT.</li> </ul>	Issued For FOR BID
EXIST PC LITE WALL OR SPANDREL CUT OUT AND REPLACE SEALANT POCKET PROVIDE BOND BREAK ON TOP OF PL GRIND 1/4" CHAMFER (TYP)	Rev No Date 11/26/19 F
EXIST DT STEM         EXIST EMBED PL IN DT;         CLEAN, PREP AND COAT         EXIST JUMPER PL; CLEAN,         PREP AND COAT         EXIST EMBED PL; CLEAN,         PREP AND COAT         EXIST EMBED PL; CLEAN,         PREP AND COAT         EXIST EMBED PL; CLEAN,         PREP AND COAT         PREP AND COAT         N.T.S.	RKING GARAGE ME PAIRS AND DETAILS
<ul> <li>DT-SPANDREL &amp; LITEWALL CONNECTION REPAIR NOTES PREPARATION/INSPECTION:         <ol> <li>REMOVE ALL EXISTING SEALANT FROM JOINT AND CONNECTION POCKET.</li> <li>INSPECT EXISTING PL'S AND WELDS. NOTIFY ENGINEER IF THERE IS ANY VISIBLE DAMAGE. IF REPLACEMENT IS REQUIRED, REFERENCE "TYPICAL DT CONNECTION JUMPER PLATE REPLACEMENT DETAIL", THIS DWG.</li> </ol> </li> <li>GRIND END OF DT AND ALL EDGES OF THE CONNECTION POCKET.</li> </ul>	CS ROW PARA AUBURN, M PHASE 5 REP SECTIONS A
<ol> <li>CLEAN ALL PL SURFACES REMOVING ALL RUST, SCALE AND DETERIORATED COATING TO SSPC-SP3 (POWER TOOL CLEAN).</li> <li>IMMEDIATELY COAT ALL EXPOSED STEEL SURFACES WITH (2) COATS OF ZRC COLD GALVANIZING PER MANUFACTURERS RECOMMENDATIONS.</li> <li>INSTALL BOND BREAKER OVER CONNECTION PL. FOR DEEPER POCKETS INSTALL GROUT CAP OVER CONNECTION TO WITHIN 1/2" OF TOP SURFACE.</li> <li>INSTALL SEALANT, REFERENCE TYPICAL DETAIL DWG S2.3 FOR JOINT.</li> </ol>	MECHANIC
	Designed Scale ATS AS NOTED Drawn Date ATS 11/26/19 Checked Becker Job Number JMM AC19132

S2.1

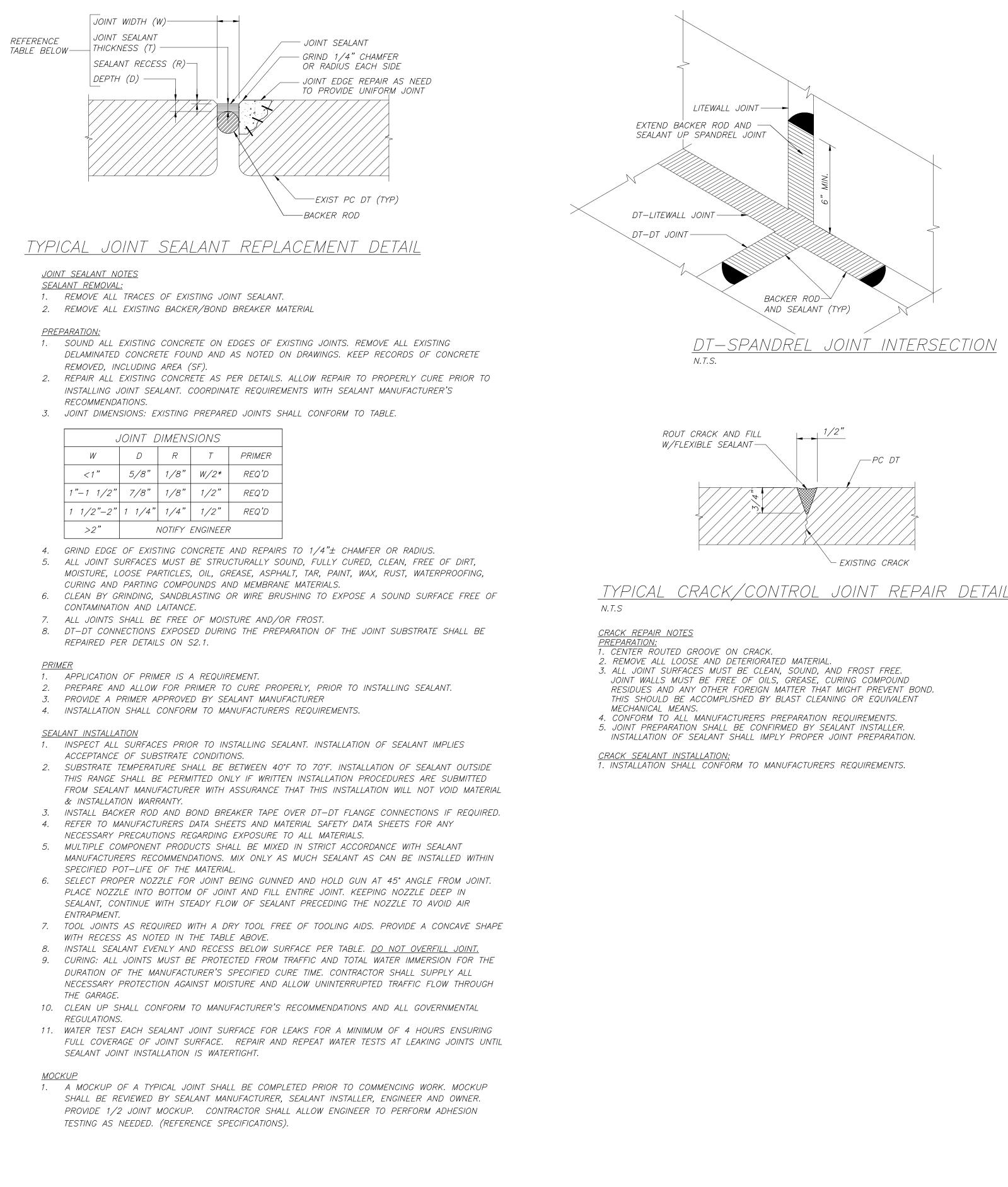


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PATH OF ABRASIVES (TYP)

S2.2



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Thornton Tomasetti DECKER STRUCTURAL ENGINEERS					
Rev No Date Issued For Apprd	11/26/19 FOR BID				
MECHANICS ROW PARKING GARAGE	AUBURN, ME	PHASE 5 REPAIRS	REPAIR SECTIONS AND DETAILS		
Designed ATS Drawn ATS Checked JMM Checked					