# Wayne State University

## 2015 Parking Structure 1 Renovations

### Detroit, Michigan

### Bidding and Construction - 03/04/15

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**Wayne State University**

**2015 Parking Structure 1 Renovations**

**WSU Project No.: Parking Structure #1 - 051-258269**

**Detroit, Michigan**

**Bidding and Construction - 03/04/15**

**General Notes, ISO, Legend and W.I. List**

**Temporary Shoring (WI 18.1)**

**Traffic Control & Parking**

**Permanent Shoring**

**Level 6 Plan View (Base Bid)**

**Level 6 Plan View (Alternates)**

**Existing Reinforcement**

**Repair Details**

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**Walker Restoration Consultants**

525 Avis Drive

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NOTES:
1. PROVIDE CONTROL JOINTS PER WI 11.1 CENTERED ON COLUMN LINES IN WI 3.1 WORK AREAS PER TYPICAL LAYOUT SHOWN.
2. PROVIDE CONTROL JOINTS PER WI 11.1 DIRECTLY ABOVE ALL EXISTING CONSTRUCTION JOINTS IN WI 3.1 AND 3.7 WORK AREAS.
3. BULKHEADS SHALL BE PROVIDED BETWEEN CONCRETE POURS AT SLAB SPAN MID POINT. PROVIDE JOINT PER WI 11.1.
4. INSTALL COVE SEALANT PER WI 11.7 AROUND PERIMETER OF BAYS AND ALL COLUMNS IN ALL WI 3.1 AND 3.7 AREAS.
5. WI 11.1 AND 11.7 ARE INCIDENTAL TO WI 3.1 / 3.7.

TYPICAL CONTROL JOINT PATTERN
AND OTHER JOINT REQUIREMENTS

PHASE 1A (ALTERNATE #2)

OVERLAY PLAN ELEVATION KEY

(WI'S 3.1 & 3.7)
1. MECHANICALLY SECURE SHORES TOP & BOTTOM
2. THIS SECTION APPLIES TO ALL CANTILEVER EDGES WITHIN WORK AREAS (TYPICAL).

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**TEMPORARY SHORES/RESHORES**

**NOTE:**

1. TEMPORARY SHORES REQUIRED ON THIS SHEET SHALL BE INSTALLED TO LEVEL 2.
2. REVIEW CONSTRUCTION LAYOUT TO DATE OF ISSUE.
3. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 3.
4. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 4.
5. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 5.
6. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 6.
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87. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 87.
88. TEMPORARY SHORES REQUIRED TO LEVEL 2 EXCLUDING LEVEL 88.
1. STAIR AND ELEVATOR TOWERS "A", "B", "D", & "E" TO BE MAINTAINED

PHASING NOTES:

2. PROVIDE BARRICADES TO PREVENT VEHICLE AND PEDESTRIAN ACCESS

3. PROVIDE CONTINUOUS TEMPORARY STEEL BARRICADE ACROSS FULL WIDTH OF DRIVE LANES AT CLOSED VEHICLE ENTRY/EXITS WITH WALK-THROUGH SCAFFOLDING OR OTHER MEANS OF MAINTAINING WIDTH AVAILABLE. PLACE AT NORTH EDGE OF SIDEWALK.

4. ACCESSING THE CITY HYDRANT AT THE NORTHEAST CORNER OF THE STRUCTURE REQUIRES CROSSING THE SIDEWALK WITH PIPING. PROVIDE FLOOR-TO-CEILING PLYWOOD BARRIERS PER W.I. 1.6. REQUIRED FOR NORMAL USE AT ALL TIMES.

5. REMOVE AND RELOCATE BARRIERS AS REQUIRED AFTER COMPLETED WORK AREAS ARE REOPENED.

6. WORK AREA LEGEND - ISOMETRIC

LEVEL 1
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

LEVEL 2
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

LEVEL 3
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

LEVEL 4
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

LEVEL 5
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

LEVEL 6
S1L - PARK
S1R - PARK
S2L - EXIT
S2R - WORK AREA

7. MOUNT WORK AREA SIGNS IN A CONSISTENT MAN-READABLE FORMAT, BASED ON THE SPECIFICATIONS OF YOUR WORK AREA.

8. PROVIDE SIGNAGE AS SHOWN. SEE SECTION 020010.

9. SIGNS AT AN ANGLE THAT IS BEST SUITED FOR DRIVER VISIBILITY. SIGNS SHALL HAVE A 6'-9" CLEARANCE.

10. SIGNS AT A HEIGHT OF 5'-0" AFF. CEILING MOUNTED SIGNS REQUIREMENTS OF W.I. 1.5 IN ADDITION TO SPECIFIC SIGNAGE SHOWN. SEE SECTION 020010.

11. ALL SIGNS SHALL BE POST-MAINTAINED TO A MOBILE BASE OR FASTENED TO STRUCTURE, PAVED WORK AREA LEGEND - ISOMETRIC

12. MOUNT WORK AREA LEGEND SIGNS AT A HEIGHT OF 5'-0" AFF. CEILING MOUNTED SIGNS REQUIREMENTS OF W.I. 1.5 IN ADDITION TO SPECIFIC SIGNAGE SHOWN. SEE SECTION 020010.

13. PROVIDE AND MAINTAIN INFORMATION AS SHOWN. SEE SECTION 020010.

14. PROVIDE AND MAINTAIN INFORMATION AS SHOWN. SEE SECTION 020010.

15. PROVIDE AND MAINTAIN INFORMATION AS SHOWN. SEE SECTION 020010.

WORK SCHEDULE

<table>
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<th>WORK SCHEDULE</th>
<th>CONCRETE PLACEMENT COMPLETION DATE</th>
<th>SUBMITTAL COMPLETION DATE PER WORK AREA</th>
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<td>PHASE 1 (Bays A-E)</td>
<td>June 20, 2013</td>
<td>July 27, 2013</td>
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<td>PHASE 2 (Bays B-G)</td>
<td>August 28, 2013</td>
<td>September 11, 2013</td>
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WORK SCHEDULE NOTES:

1. Confirmation that work area is a complete work package for normal building operations by specified Substantial Completion Dates. This includes all site work, improvements, and installation of permanent services to the satisfaction of the Owner.

2. All work area is to be completed by July 27, 2013. No work performed at the conclusion of the work area shall be counted toward completion.

3. Work area completion must be confirmed by the Owner within 5 calendar days of the completion date. If no receipt is received by the Owner within the 5 calendar days, then the work area shall be considered complete by July 27, 2013. Should the work area not be considered complete by July 27, 2013, the latest was to be completed by the end of the seventh working day following receipt of the confirmation.

4. Work area completion must be confirmed by the Owner within 5 calendar days of the completion date. If no receipt is received by the Owner within the 5 calendar days, then the work area shall be considered complete by August 28, 2013. Should the work area not be considered complete by August 28, 2013, the latest was to be completed by the end of the seventh working day following receipt of the confirmation.

5. Work area completion must be confirmed by the Owner within 5 calendar days of the completion date. If no receipt is received by the Owner within the 5 calendar days, then the work area shall be considered complete by September 11, 2013. Should the work area not be considered complete by September 11, 2013, the latest was to be completed by the end of the seventh working day following receipt of the confirmation.

6. Work area is to be completed by the end of the seventh working day following receipt of the confirmation.
VEHICLE ENTRY

1. OVERLAY REPAIRS SHALL BE PERFORMED IN ORDER OF SEQUENTIAL NUMERICAL PHASE DESIGNATION (i.e. PHASE 1, PHASE 2, ETC.). CONTRACTOR SHALL NOT PROCEED WITH CONCRETE

T16. PROVIDE AND MAINTAIN SIGNAGE FOR MAIN PEDESTRIAN ROUTES TO ADJACENT LOCATIONS (LAW SCHOOL / AAB / ETC.)

T3/R-003A) .

"A"

(ALTERNATE #2)

G1

LEVELS IN BAYS 5 AT TOP AND

STAIR 28'-0"

BAY 6 12

3

CONTRACTOR USE

14

UP

LOBBY STAIR/ELEVATOR TOWER CLOSED

STAIR TOWER CLOSED

AT ALL TIMES.

STAIR/ELEVATOR TOWER "B" SHALL REMAIN OPEN & FUNCTIONAL AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES AS SHOWN.

PROJECT NO: DRAWN BY: CHECKED BY:

A

AND FUNCTIONAL

PROVIDE FULL HEIGHT

(FACULTY / STUDENT /

ENTRY / EXIT 13

BARRIER AT PERIMETER OF WORK AREA.  SEE DET 3.1/R-501 FOR FURTHER REQUIREMENTS.

TRADE SERVICES: PROVIDE LOW/ HIGH PRESSURE WATER, SLURRY, WATER, SLURRY,

PER W.I. 1.6. REQUIRED

FLOOR-TO-CEILING

ON ALL LEVELS.

PARKING AND

ADDITIONAL

RAMPS ON ALL

LEVELS IN BAYS 5 AT TOP AND

STAIR 28'-0"

BAY 6 12

3

CONTRACTOR USE

14

UP

LOBBY STAIR/ELEVATOR TOWER CLOSED

STAIR TOWER CLOSED

AT ALL TIMES.

STAIR/ELEVATOR TOWER "B" SHALL REMAIN OPEN & FUNCTIONAL AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES AS SHOWN.

PROJECT NO: DRAWN BY: CHECKED BY:

A

AND FUNCTIONAL

PROVIDE FULL HEIGHT

(FACULTY / STUDENT /

ENTRY / EXIT 13

BARRIER AT PERIMETER OF WORK AREA.  SEE DET 3.1/R-501 FOR FURTHER REQUIREMENTS.

TRADE SERVICES: PROVIDE LOW/ HIGH PRESSURE WATER, SLURRY, WATER, SLURRY,

PER W.I. 1.6. REQUIRED

FLOOR-TO-CEILING

ON ALL LEVELS.

PARKING AND

ADDITIONAL

RAMPS ON ALL

LEVELS IN BAYS 5 AT TOP AND

STAIR 28'-0"

BAY 6 12

3

CONTRACTOR USE

14

UP

LOBBY STAIR/ELEVATOR TOWER CLOSED

STAIR TOWER CLOSED

AT ALL TIMES.

STAIR/ELEVATOR TOWER "B" SHALL REMAIN OPEN & FUNCTIONAL AT ALL TIMES. PROVIDE AND MAINTAIN BARRICADES AS SHOWN.

PROJECT NO: DRAWN BY: CHECKED BY:
PERMANENT SHORING - EXTERIOR CONDITION

22.1.1 INSTALL TS SHORE IN FRONT OF EXISTING BARRIER RAILING TO LINE UP WITH EXISTING SHORES BELOW. (TYP AT PERIMETER).
(SEE PLANS ON THIS SHEET FOR LOCATIONS)

EXISTING PERIMETER VEHICLE BARRIERS (TYP)

NOTE:
1. REFER TO 22.1/R-101 FOR REMAINING INFORMATION.

EXISTING SHORE (TYP)

PROVIDE NEW T.S. 6" x 6"
(SEE PLANS ON THIS SHEET FOR LOCATIONS)

PERMANENT SHORING - INTERIOR CONDITION

EXISTING CAR BARRIERS (TYP.)
ALL LEVELS
MAX OFFSET 5", ANY DIRECTION, BETWEEN EXISTING AND / OR NEW SHORES (TYP)

NOTE 1
NSNS GROUT (TYP)
TOP AND BOTTOM

NOTE:
1. PROVIDE (2) 3/4" Ø S.S. TREADED RODS, LOCK WASHER, AND NUT. EMBED MIN. 8" AND ANCHOR WITH HILTI HIT HY-200 SAEVE SET EPOXY ADHESIVE (TYP TOP AND BOTTOM). 4 ANCHORS REQUIRED AT EACH SHORE: 2 TOP, 2 BOTTOM.

NOTE 1
8" 1/4" PLATE 3/4" 7/8" HOLE (TYP.)
T.S. 6" x 6" TYPICAL TOP & BOTTOM PLATE

PERMANENT SHORING NOTES:
1. PERMANENT SHORES (BOTH EXISTING & NEW) OCCUR ON UNDER SIDE OF LEVEL SHOWN.
2. CONTRACTOR TO PROVIDE, ANCHOR, AND GROUT PERMANENT SHORES (HOT-DIPPED GALVANIZED TUBE STEEL) AT LOCATIONS SHOWN ON DRAWING R-203 PER W.I. 22.1.
3. CONTRACTOR SHALL NOT DAMAGE EXISTING LIGHTS, CONDUIT, ELECTRICAL, AND SECURITY EQUIPMENT, OR ANY OTHER EXISTING ITEMS TO INSTALL PERMANENT SHORING.
4. LENGTH OF TUBE STEEL SHORES VARIES. CONTRACTOR TO V.I.F.
5. STEEL SHORES SHALL BE HDG HSS 6" x 6" x 1-4". SEE WORK ITEM DESCRIPTION IN SECTION 020010 FOR FURTHER REQUIREMENTS.
LEVEL 2 - BASE BID AREA OF TRAFFIC Topping INSTALLATION

LEVEL 2 - FLOOR AREAS REQUIRING TEMPORARY SHORING PER BASE BID W.I. 18.1

LEVEL 1 - LEVEL 2 - LEVEL 3

LEVEL 4 - LEVEL 5 - LEVEL 6

1. SEE SHEETS R-001 THRU R-003A FOR GENERAL NOTES, LEGEND, TRAFFIC CONTROL AND PHASING, WORK SCHEDULE, AND TEMPORARY SHORING REQUIREMENTS PER WI 18.1 FOR OVERLAY REPAIRS (WI'S 3.1 / 3.7).

2. REPLACE CONCRETE SLAB FULL DEPTH ALONG EXPANSION JOINTS PER WI 3.4 WHERE DELAMINATIONS/SPALLS OCCUR AT SLAB TOP AND BOTTOM IN OVERLAY REPAIR AREAS (WI'S 3.1 / 3.7). PROVIDE BLOCKOUTS FOR E.J. PER DETAIL 3.1.2 (INCIDENTAL).

3. APPLY NEW TRAFFIC MARKINGS IN BAYS 7-8 ON LEVELS 1-6 PER WI 45.1 AFTER ALL OTHER REPAIRS ARE COMPLETED TO REPLACE AND MATCH THE EXISTING TRAFFIC MARKINGS. ALSO INCLUDES ALL OTHER AREAS IN STRUCTURE WHERE MARKINGS ARE AFFECTED BY PROJECT.

4. VARY OVERLAY THICKNESS LINEARLY ALONG REQUIRED DRAINAGE PROFILE LINES FROM HIGH POINTS TO DRAINS AS REQUIRED (TYP).

5. TEMPORARY SHORING SHALL BE INSTALLED PER WI 18.1 AT HYDRO-DEMOLITION REPAIR AREAS PRIOR TO CONCRETE REMOVALS. REFER TO SHEET R-002.

6. PROVIDE MINIMUM 7'-0" FLOOR TO CEILING CLEARANCE HEIGHT AT DROP PANELS AND MINIMUM 7'-4" BETWEEN DROP PANELS. ALSO PROVIDE 6'-8" MINIMUM CLEARANCE AT LIGHT FIXTURES AND SECURITY CAMERAS. CONTRACTOR SHALL VERIFY PRIOR TO PLACING CONCRETE.


8. PROVIDE 1" HIGH x 3' WIDE CONCRETE WASH AROUND COLUMNS AND ALONG WALLS / CURBS (SEE 1/R-001). PLACE MONOLITHIC WITH OVERLAY (W.I. 3.1 & W.I. 3.7). VERIFY IN FIELD PRIOR TO PLACING CONCRETE.

9. COLLECT ALL HYDRO-DEMOLITION WATER. DO NOT ALLOW RUN OFF OUTSIDE WORK AREA LIMITS. FOLLOW ALL ENVIRONMENTAL REGULATIONS FOR DISCHARGE. SEE SPECIFICATION SECTION 025160 FOR FURTHER HYDRO-DEMOLITION REQUIREMENTS.

10. PRIOR TO AND DURING CONCRETE PLACEMENT, PROFESSIONAL LICENSED SURVEYOR PER W.I. 2.1 SHALL VERIFY ELEVATIONS AT ALL DRAINAGE PROFILE LINES, HALFWAY POINTS, AND TOP OF DRAINS PER W.I. 2.1 TO ENSURE PROPER DRAINAGE AND CLEARANCE HEIGHT.

11. INSTALL COVE SEALANT AT ALL WALLS, COLUMNS, & CURBS IN OVERLAY REPAIR AREAS PER DETAIL 11.7 (INCIDENTAL TO W.I.'S 3.1 & 3.7).

12. PROVIDE MINIMUM 7'-0" FLOOR TO CEILING CLEARANCE HEIGHT AT DROP PANELS AND MINIMUM 7'-4" BETWEEN DROP PANELS. ALSO PROVIDE 6'-8" MINIMUM CLEARANCE AT LIGHT FIXTURES AND SECURITY CAMERAS. CONTRACTOR SHALL VERIFY PRIOR TO PLACING CONCRETE.

13. RESTORE ALL LANDSCAPING FEATURES TO EXISTING CONDITION UPON COMPLETION OF REPAIRS (INCIDENTAL).

14. CEILING REPAIRS PER WI 4.1 UPON COMPLETION OF HYDRO-DEMOLITION WORK. LOCATE IN FIELD WITH ENGINEER.

15. COLLECT ALL HYDRO-DEMOLITION WATER. DO NOT ALLOW RUN OFF OUTSIDE WORK AREA LIMITS. FOLLOW ALL ENVIRONMENTAL REGULATIONS FOR DISCHARGE. SEE SPECIFICATION SECTION 025160 FOR FURTHER HYDRO-DEMOLITION REQUIREMENTS.

16. PRIOR TO AND DURING CONCRETE PLACEMENT, PROFESSIONAL LICENSED SURVEYOR PER W.I. 2.1 SHALL VERIFY ELEVATIONS AT ALL DRAINAGE PROFILE LINES, HALFWAY POINTS, AND TOP OF DRAINS PER W.I. 2.1 TO ENSURE PROPER DRAINAGE AND CLEARANCE HEIGHT.

17. INSTALL PROTECTION FOR FLOOR DRAINS (FILTERS AND OTHER MEANS OF PROTECTION AS NECESSARY) PRIOR TO START OF HYDRO-DEMOLITION TO ENSURE ALL DEBRIS/SLURRY IS PREVENTED FROM ENTERING EXISTING DRAINAGE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANING AND/OR REPAIR NECESSARY TO RESTORE DRAINAGE SYSTEM (DRAINS & PIPES) TO EXISTING FUNCTIONAL CONDITION.

18. NEW FLOOR DRAIN ELEVATIONS SHALL BE SET AT OR BELOW EXISTING FLOOR DRAIN ELEVATIONS. LOWER DRAINS AS NECESSARY TO PROVIDE REQUIRED SLOPE AND SURFACE DRAINAGE, WHILE MAINTAINING 1½" MINIMUM CONCRETE COVER. NOTIFY ENGINEER OF ANY DISCREPANCIES.

19. ANY NON-FUNCTIONAL LIGHT FIXTURES SHALL ALSO BE DOCUMENTED PRIOR TO START OF HYDRO-DEMOLITION. PERFORM SIMILAR REVIEW OF ALL ELEVATORS PRIOR TO START OF WORK.

20. PROVIDE MINIMUM 7'-0" FLOOR TO CEILING CLEARANCE HEIGHT AT DROP PANELS AND MINIMUM 7'-4" BETWEEN DROP PANELS. ALSO PROVIDE 6'-8" MINIMUM CLEARANCE AT LIGHT FIXTURES AND SECURITY CAMERAS. CONTRACTOR SHALL VERIFY PRIOR TO PLACING CONCRETE.
LEVEL 6 - BASE BID AREA OF TRAFFIC TOPPING INSTALLATION

LEVEL 6 - FLOOR AREAS REQUIRING TEMPORARY SHORING PER BASE BID W.I. 18.1

NOTE:
1. OVERLAP NEW TRAFFIC TOPPING 4" ONTO EXISTING COATING (TYP)
2. LEVEL 6 - FLOOR AREAS REQUIRING TEMPORARY SHORING PER BASE BID W.I. 18.1 (BASE BID) (SHORING REQUIRED 2 LEVELS BELOW CROSS-HATCHED AREA)
3. SAVE EXISTING EXPANSION JOINT.
   PROTECT DURING CONSTRUCTION.
LEVEL 6 ALTERNATE - FLOOR AREAS REQUIRING TEMPORARY SHORING PER W.I. 18.1

NOTE:
1. TEMPORARY SHORING REQUIRED 2 LEVELS BELOW ENTIRE CROSS-HATCHED AREA.
2. EXTEND SHORING TO "10" LINE FROM "AA" TO "B" IF A LT. #2 IS ACCEPTED AND ALTERNATE #3 IS DECLINED.

EXISTING COATING
EXISTING COATING
EXISTING CONSTRUCTION
JOINT

LEVEL 6 PLAN VIEW (ALTERNATES)

LEVEL 6 ALTERNATE - FLOOR AREAS REQUIRING TEMPORARY SHORING PER W.I. 18.1

NOTE:
2. LEVELS BELOW ENTIRE CROSS-HATCHED AREA.
3. EXTEND SHORING TO "10" LINE FROM "AA" TO "B" IF A LT. #2 IS ACCEPTED AND ALTERNATE #3 IS DECLINED.

GENERAL LEGEND
- FLOOR SPALL OR DECOMPOSITION (W.I. 3.2)
- FLOOR REPAIR - CURB OR STAIR NOSING (W.I. 3.7)
- TEMPORARY SHORING (W.I. 18.1)
- ALTERNATE TRAFFIC TOPPING (W.I. 16.1A)
- LEAK REPAIR - CURB OR STAIR NOSING (W.I. 3.7)
- TEMPORARY SHORING (W.I. 18.1)
- EXISTING FLOOR DRAIN

NOTE:
1. OVERLAP NEW TRAFFIC TOPPING 4" ONTO EXISTING COATING (TYP).

LEVEL 6 - ALTERNATE AREA OF TRAFFIC TOPPING INSTALLATION

(ALTERNATES)

4. LEVEL 6 PLAN VIEW (ALTERNATES)

LEVEL 6 - ALTERNATE AREA OF TRAFFIC TOPPING INSTALLATION

(ALTERNATES)
NOTES:

1. SURFACE PREPARATION SEQUENCE:
   - a) SCARIFY EXISTING SCALED SURFACE TO REMOVE LOOSE / DELAMINATED / DETERIORATED CONCRETE.
   - b) APPLY EPOXY ADHESIVE (8 TOTAL).
   - c) REMOVE AND REPLACE CONCRETE TO ENSURE PROPER DRAINAGE (INCIDENTAL).

2. CONTRACTOR SHALL VERIFY BLOCKOUT WIDTH AND DEPTH REQUIREMENTS WITH MANUFACTURER PRIOR TO SUBMITTING BID. NO EXTRAS ALLOWED FOR DISCREPANCY.

3. KEEP PIPE TIGHT TO CEILING AT DRAIN WITH REQ'D. SLOPE TO R.W.C.

4. CONCRETE WORK AND SUPPLEMENTAL REINFORCEMENT REQUIRED ON THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO WI'S 25.2 & 25.4, AND ARE NOT ELIGIBLE FOR PAYMENT UNDER MECHANICAL - REPLACEMENT FLOOR DRAINS

5. EXTEND COLUMN FACE AS NEEDED TO PROVIDE 2" COVER (TYP).

6. REMOVE CONCRETE AND EXPOSE REINFORCEMENT (TYP.)

7. DO NOT UNDERMINE VERT. DELAMINATION BOUNDARY.

8.部門人員必須遵守所有法規，包括但不限于：
   - 作用：因需進行各部分修補，所有人工和材料需求將被確認。上述修補要求將依據現時實地情況進行監督。
   - 作用：確認所有施工材料及質量，確保工程的質量和進度。

9. 取消所有已損壞的情況，並換上新柱面。

10. 全部 trabalho將會被記錄和報告。

11. 修補工作將會在規定的時間內完成。

12. 修補對象包括但不限于：
   - 桃花心、玻璃、塗料等。

13. 修補範圍將會被詳細地標示。

14. 所有修補工作將會由專業人員執行。