EXHIBIT 1 – PLAN DRAWINGS

DEKALB COUNTY FACILITIES MANAGEMENT
ARCHITECTURAL & ENGINEERING SERVICES
CLARK HARRISON BUILDING
330 PONCE DE LEON, 4TH FLOOR
DECATUR, GA 30030

PROJECT: Dekalb County Trinity Parking Deck

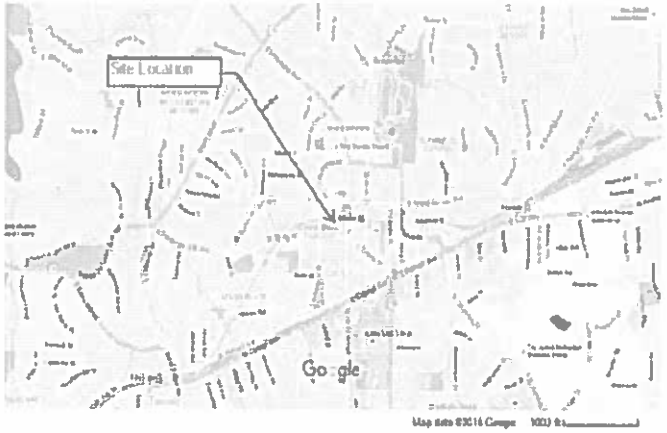
LOCATION: Commerce Drive and Trinity Place, Decatur, GA

CONTACT INFORMATION: Dulce Guzman 404-687-3552
E-mail: dmguzman@dekalbcountyga.gov

PROJECT ENGINEER: Sam Alyateem, PE 770-652-5234
E-mail: sam@matrixengineeringgroup.com

STRUCTURAL ENGINEER: Eric Hagberg, PE 770-908-9908
E-mail: eric.hagberg@pecga.com

LOCATION MAP



INDEX OF DRAWINGS

S0	COVER SHEET / INDEX
S1	GROUND FLOOR PLAN
S2	LEVEL 1 FLOOR AND CEILING PLANS
S3	LEVEL2 FLOOR AND CEILING PLANS
S4	LEVEL 3 FLOOR AND CEILING PLANS
S5	LEVEL 4 FLOOR AND CEILING PLANS
S6	FIFTH FLOOR PLAN
S7	FLOOR PLANS OF VERTICAL MOVEMENTS
S8	REPAIR DETAILS
S9	REPAIR DETAILS

PARKING DECK FLOOR PLAN

ISSUED: 18-APR-2016

NO	REVISIONS REMARKS	DATE
1	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

COVER SHEET / INDEX

SHEET S0 OF

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA

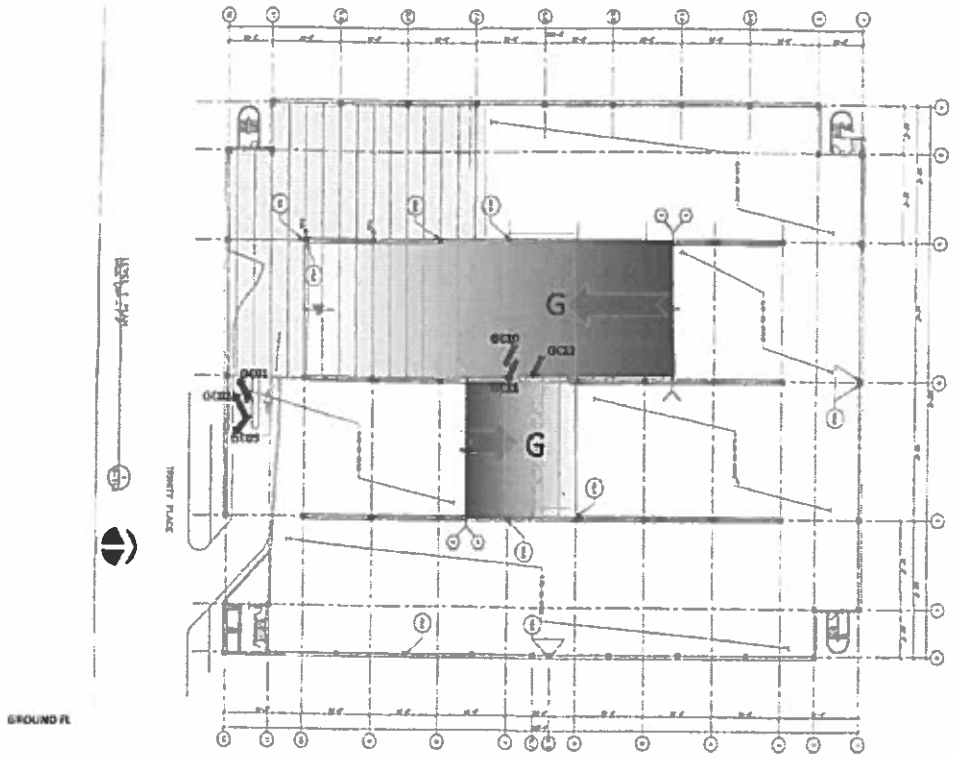


Figure 1: Floor Plans showing locations of Photographs

Legends:

Photo Location

GC01 Photo ID

Matrix Engineering Group, Inc.

GEORGIA REGISTERED No. 19197 PROFESSIONAL ENGINEER O. SAMIR ALYATEEM

ISSUED: 18-APR-2016

NO	REVISIONS REMARKS	DATE
1.	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

GROUND FLOOR PLAN

SHEET S1 OF

Photo ID: GC01 Category: 5+7

Photo ID: GC02 Category: 5+7

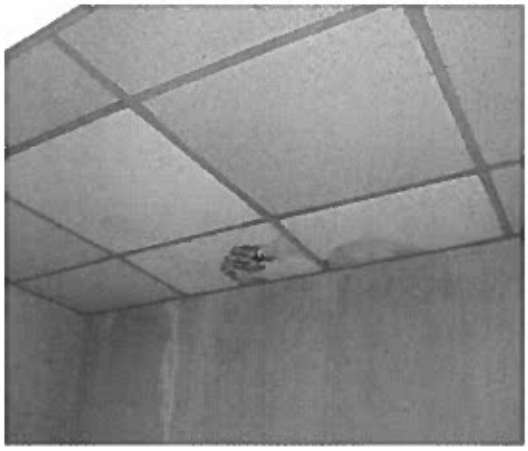
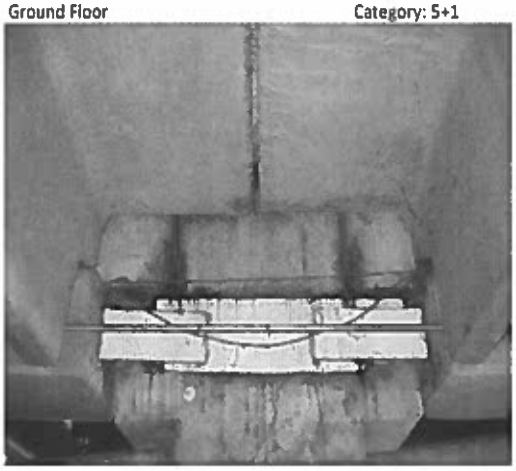


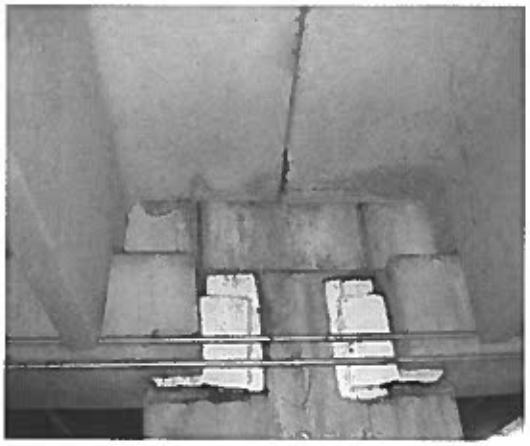
Photo ID: GC03 Category: 5

Ground Floor Category: 5+1

Ground Floor Category: 1+5



Ground Floor Category: 5+7



Ground Floor Category: 7

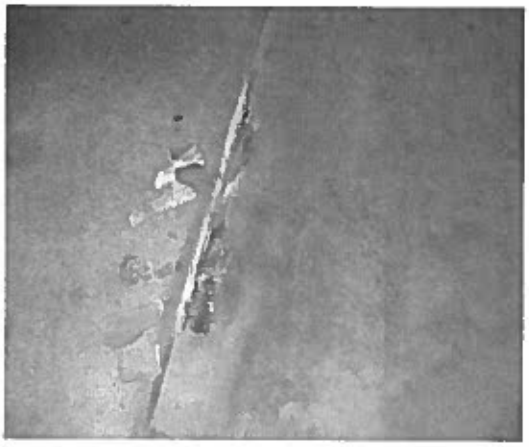
Ground Floor Category : 7

Ground Floor Category: 7+3

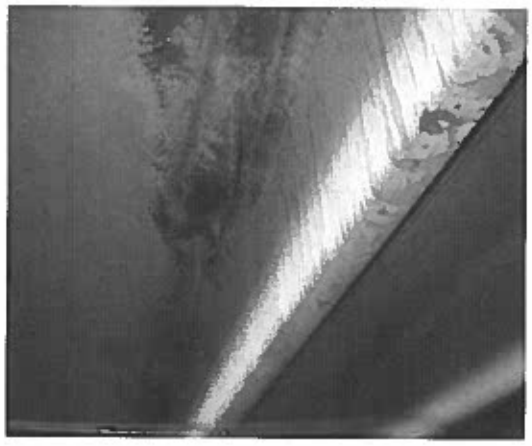
Photo ID: GC10 Category: 5+7

Photo ID: GC11 Category: 3+5

Photo ID: GC12 Category: 5+1



Ground Floor Category: 2



Ground Floor Category: 3

Matrix Engineering Group, Inc.

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA

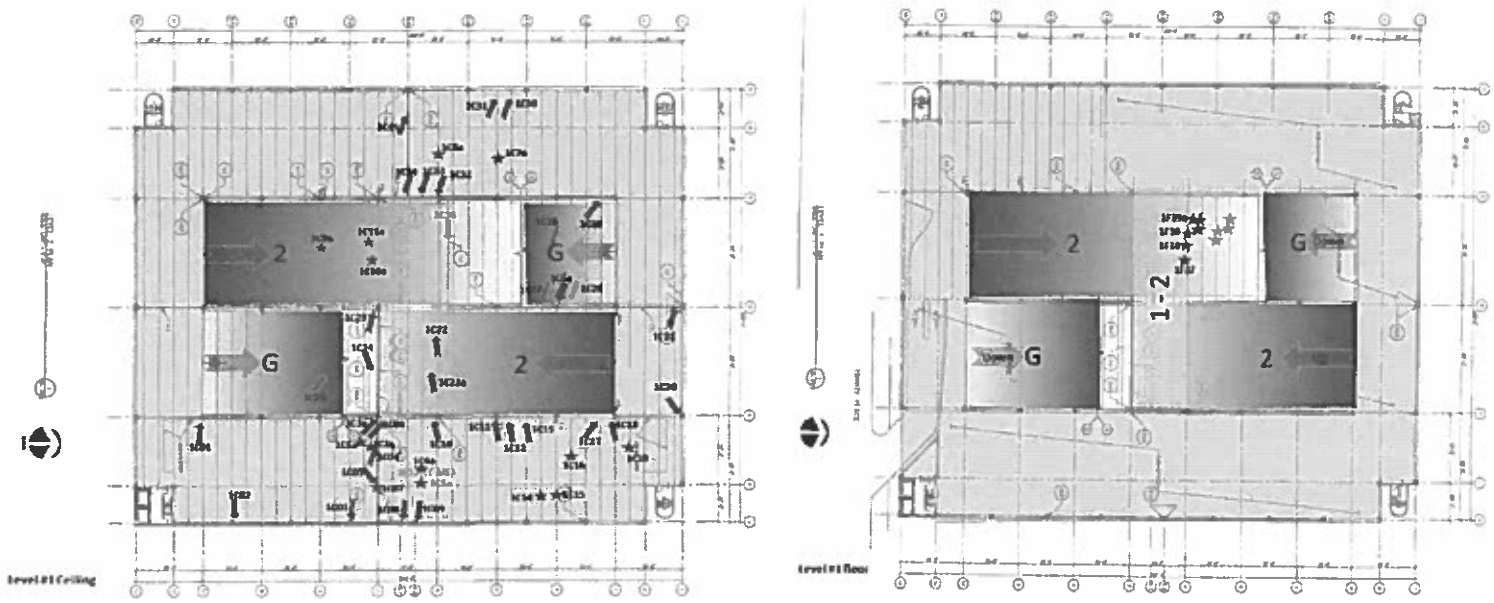


Figure 2: Floor Plans Showing Locations of Photographs

Legend:

- Photo Location
- Photo Location
- 1F39 Photo ID

Matrix Engineering Group, Inc.

GEORGIA No. 19197 SAMIR ALATEEM

ISSUED: 18-APR-2016

NO	REVISIONS REMARKS	DATE
1.	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

LEVEL 1 FLOOR AND CEILING PLAN

SHEET S2 OF

Photo ID: 1C01 Category: 2 + 5+ 7

Photo ID: 1C02 Category: 3 + 7

Photo ID: 1C03 Category: 3 + 7

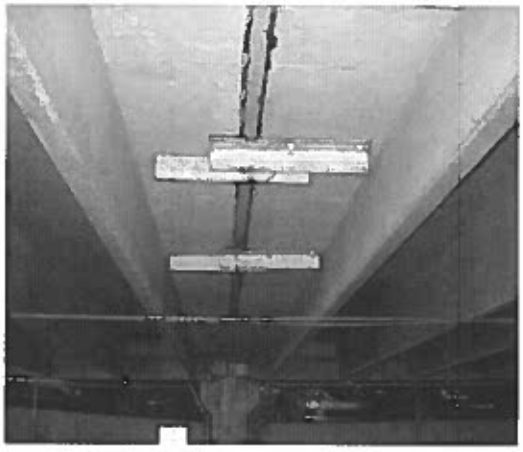


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Photo ID: 1C05 Category: 7

Photo ID: 1C06 Category: 3 + 7

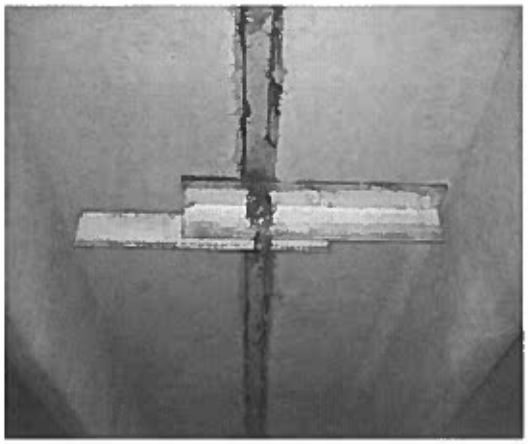

Photo ID: 1C07 Category: 7

Photo ID: 1C08 Category: 7

Photo ID: 1C09 Category: 7

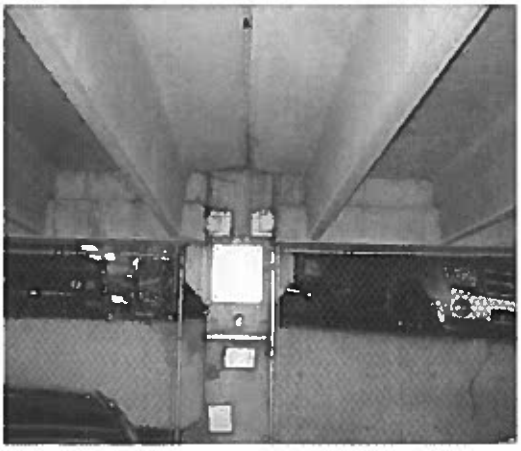

Photo ID: 1C10 Category: 3 + 7

Photo ID: 1C11 Category: 2 + 7

Photo ID: 1C12 Category: 3

Photo ID: 1C13 Category: 2 + 7

Photo ID: 1C14 Category: 2

Photo ID: 1C15 Category: 2 + 7

Photo ID: 1C16 Category: 7

Photo ID: 1C17 Category: 7

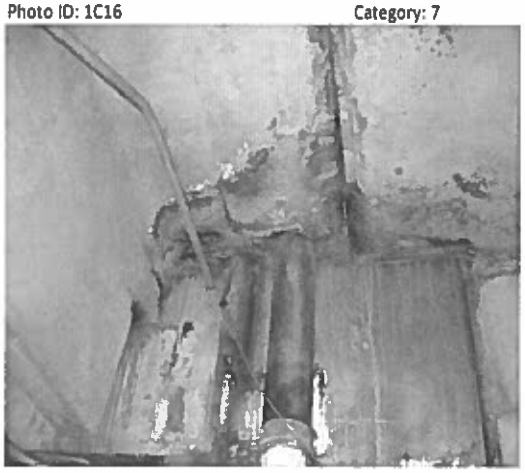

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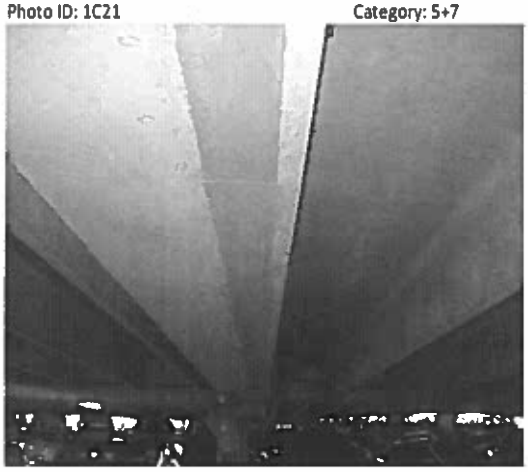
Photo ID: 1C19 Category: 2

Photo ID: 1C20 Category: 3+7

Photo ID: 1C21 Category: 5+7

Photo ID: 1C22 Category: 7



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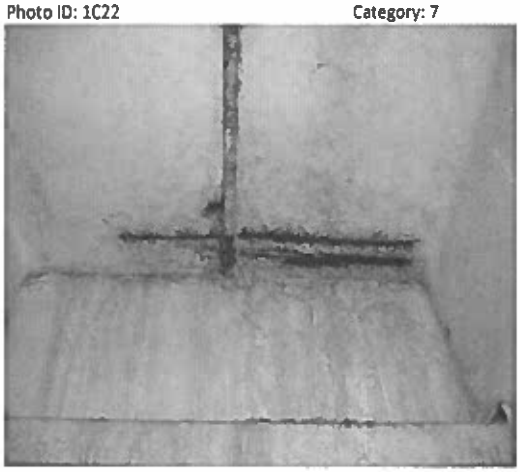

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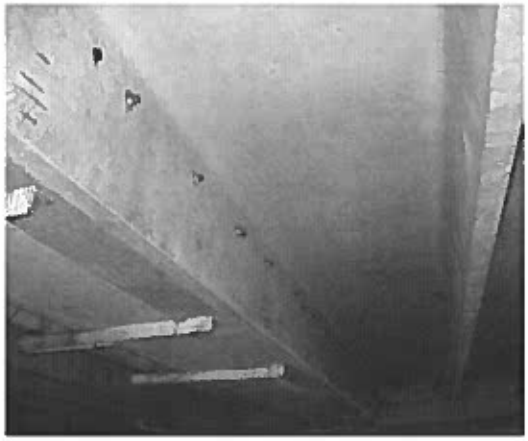

Photo ID: 1C24 Category: 7

Photo ID: 1C25 Category: 1

Photo ID: 1C26 Category: N/A

Photo ID: 1C27 Category: 1+2

Photo ID: 1C28 Category: 1

Phot ID: 1C29 Category: 1

Photo ID: 1C30 Category: 2

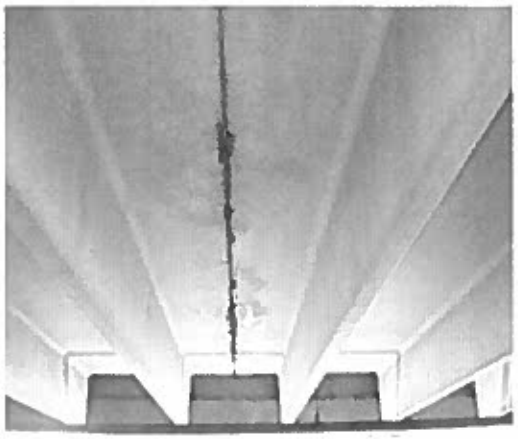

Photo ID: 1C31 Category: 2

Photo ID: 1C32 Category: 1+5

Photo ID: 1C33 Category: 3

Photo ID: 1C34 Category: 3

Photo ID: 1C35 Category: 7

Photo ID: 1C36 Category: 7

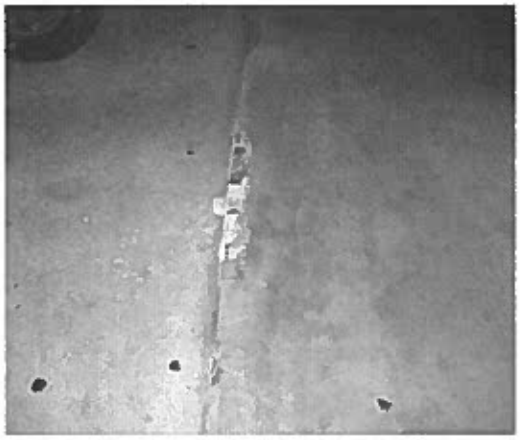

Photo ID: 1F37 Category: 2

Phot ID: 1F38 Category: 2

Photo ID: 1F39 Category: 6

Photo ID: 1F39a Category: 6

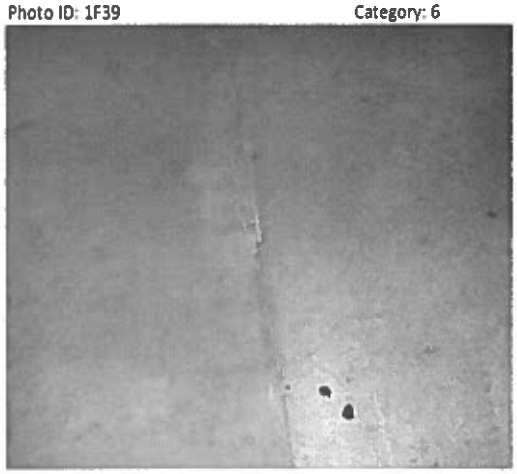

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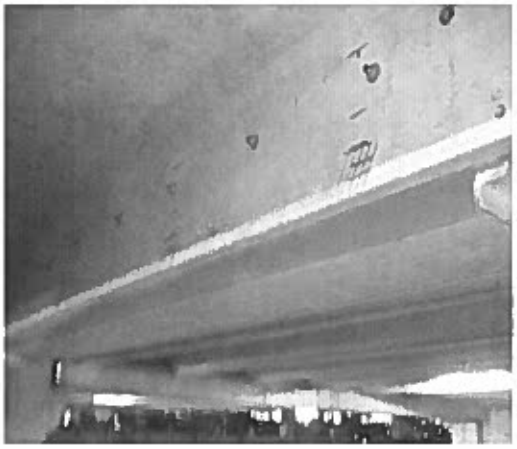
Photo ID: 1F39a Category: 2

Photo ID: 1F9aaa Category: 2

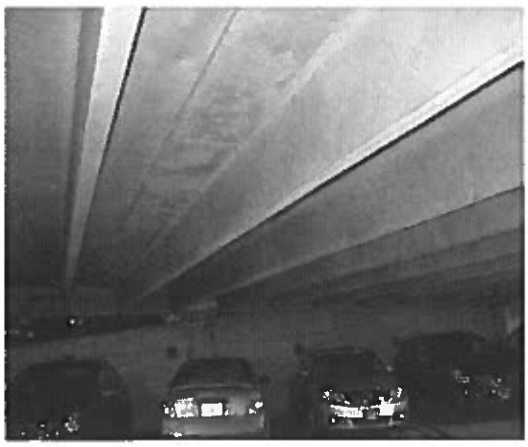
1



2

3

4



5

6

Photo ID: 1C1a Category: 7

Photo ID: 1C2a Category: 7

Photo ID: 1C3a Category: 3 + 7

Photo ID: 1C4a Category: 1

Photo ID: 1C5a Category: 1

Photo ID: 1C6a Category: 1+7

Photo ID: 1C7a

Photo ID: 1C8a Category: 2 + 7

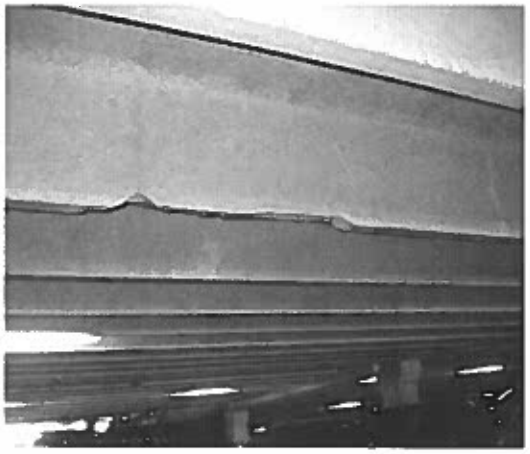


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Photo ID: 1C10a Category: 4

Photo ID: 1C11a Category: 7

Photo ID: 1F1-6,3G Category: 2

Photo ID: 1F1-6 ,4G Category: 1

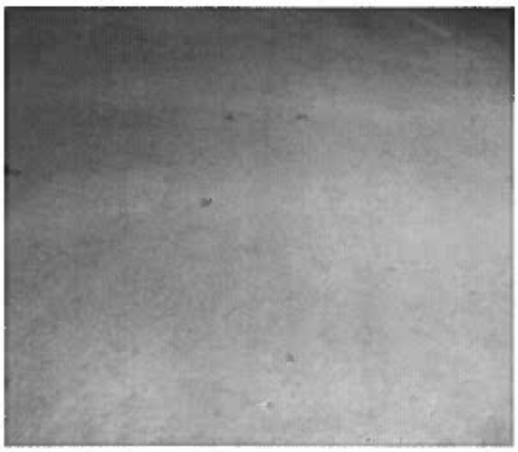


Photo ID: 1F1-6,5G Category: 1

Photo ID: 1F1-6,6G

Photo ID: 1F1-7,7G

Photo ID: 1F1-6, 8G Category: 1

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA

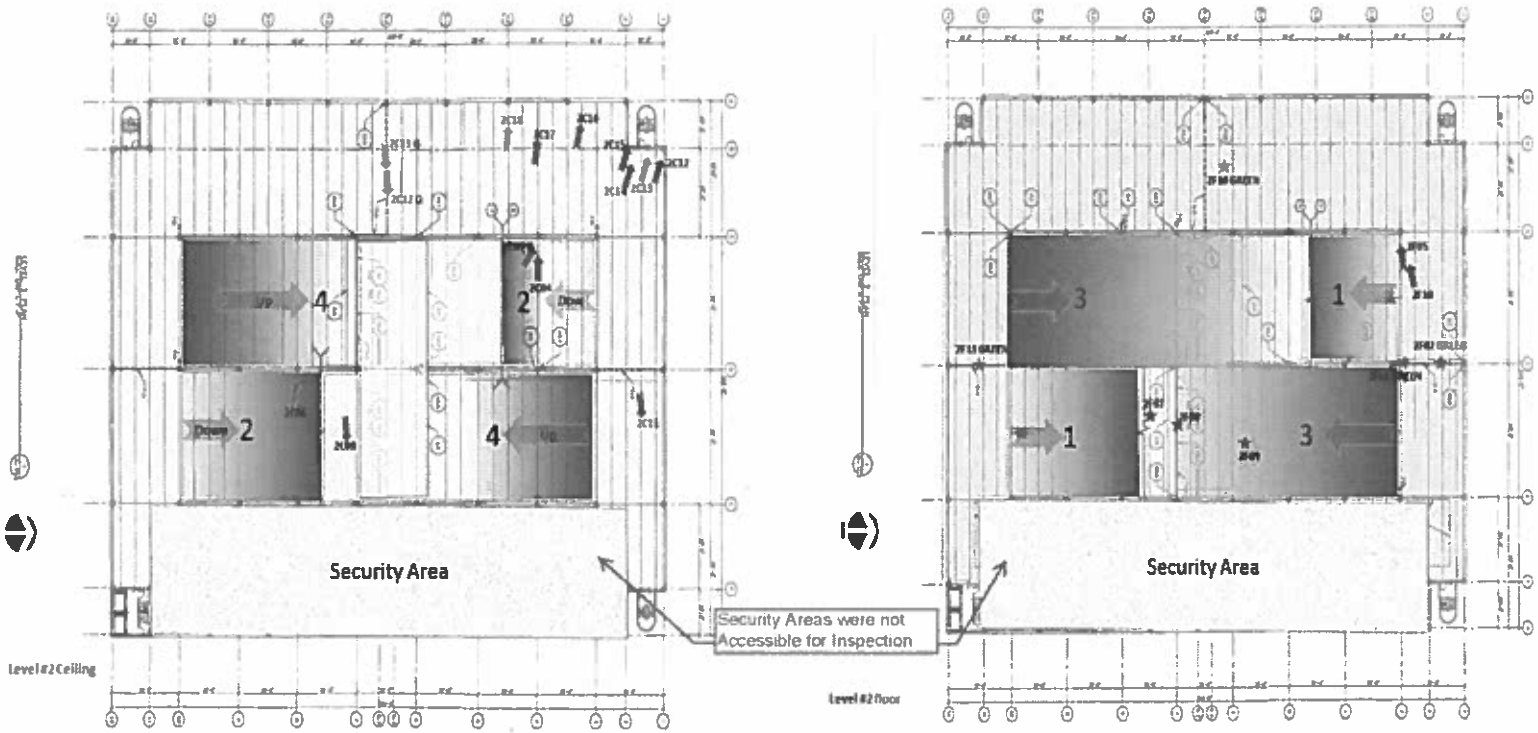


Figure 3: Floor Plans Showing Locations of Photographs

Legends:

Photo Location

Photo Location

2F10 Photo ID

Matrix Engineering Group, Inc.

GEORGIA REGISTERED No. 19197 PROFESSIONAL ENGINEER O. SAMIR ALYATEEM

ISSUED: 18-APR-2016

NO	REVISIONS REMARKS	DATE
1	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

LEVEL 2 FLOOR AND CEILING PLAN

SHEET S3 OF

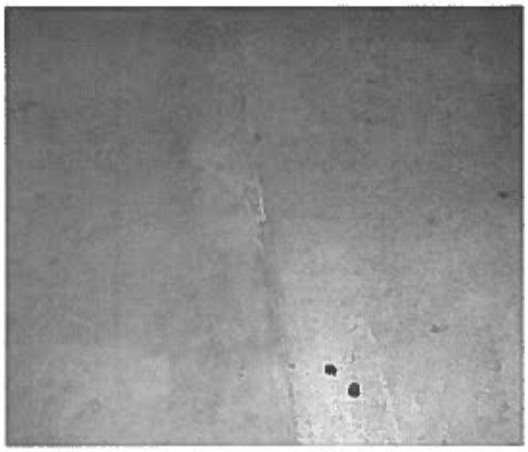


Photo ID: 2F1R Category: 1

Photo ID: 2F2R Category: 3

Photo ID: 2F3R Category: 2 + 3

Photo ID: 2C04 Category: 2+ 7

Photo ID: 2F05 Category: 1

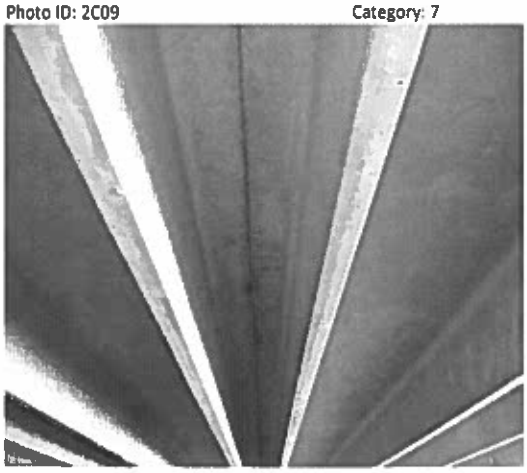
Photo ID: 2C06 Category: 2 +7

Photo ID: 2F07 Category: 1

Photo ID: 2F08 category: 3 + 4

Photo ID: 2C09 Category: 7

Photo ID: 2F10 Category: 1



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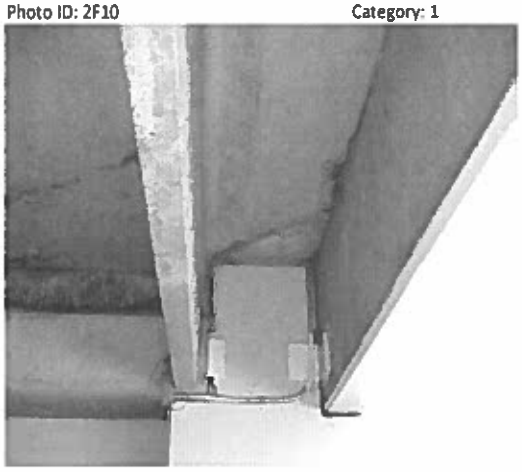

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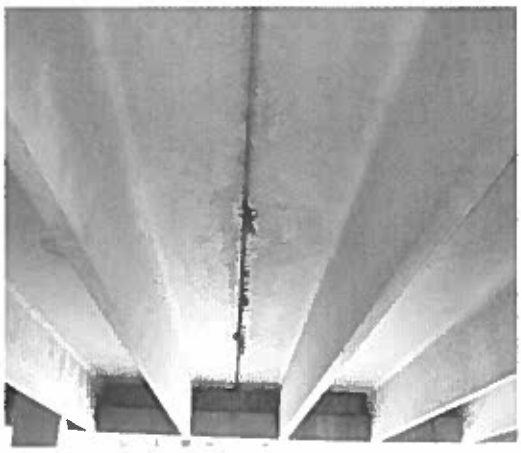
Photo ID: 2C13 Category: 3 + 5

Photo ID: 2C14 Category: 5 + 7

Photo ID: 2C15 Category: 3+7



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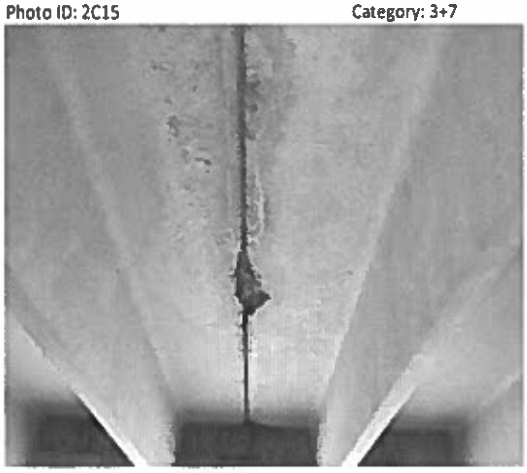


Photo ID: 2C17 Category: 2 + 3

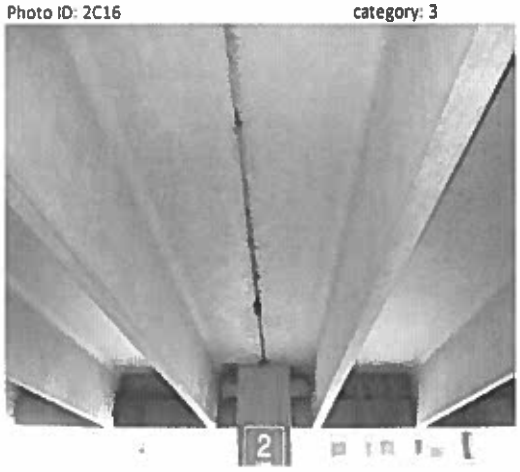


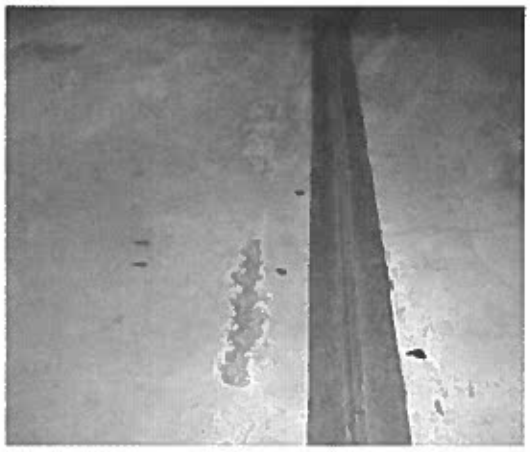
Photo ID: 2C18 Category: 7

Photo ID: 2F1green Category: 3 + 7

Photo ID: 2F2green Category: 4

Photo ID; 2F 1-6,8g Category: 1

Photo ID: 2C9g Category: 2+7



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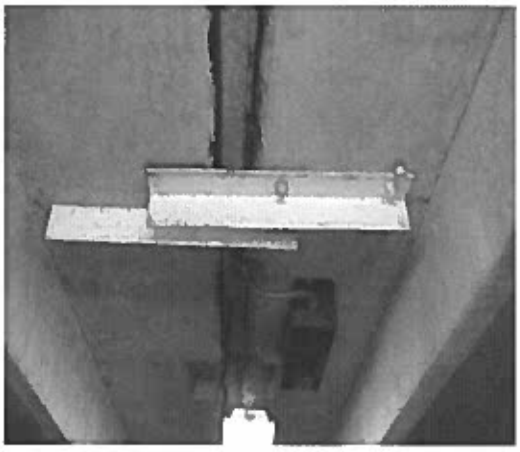


Photo ID: 2C11 green Category: 2 + 7

Photo ID: 2F12 green 12 G Category: 3 + 4

Photo ID: 2F13 green Category: 1

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA

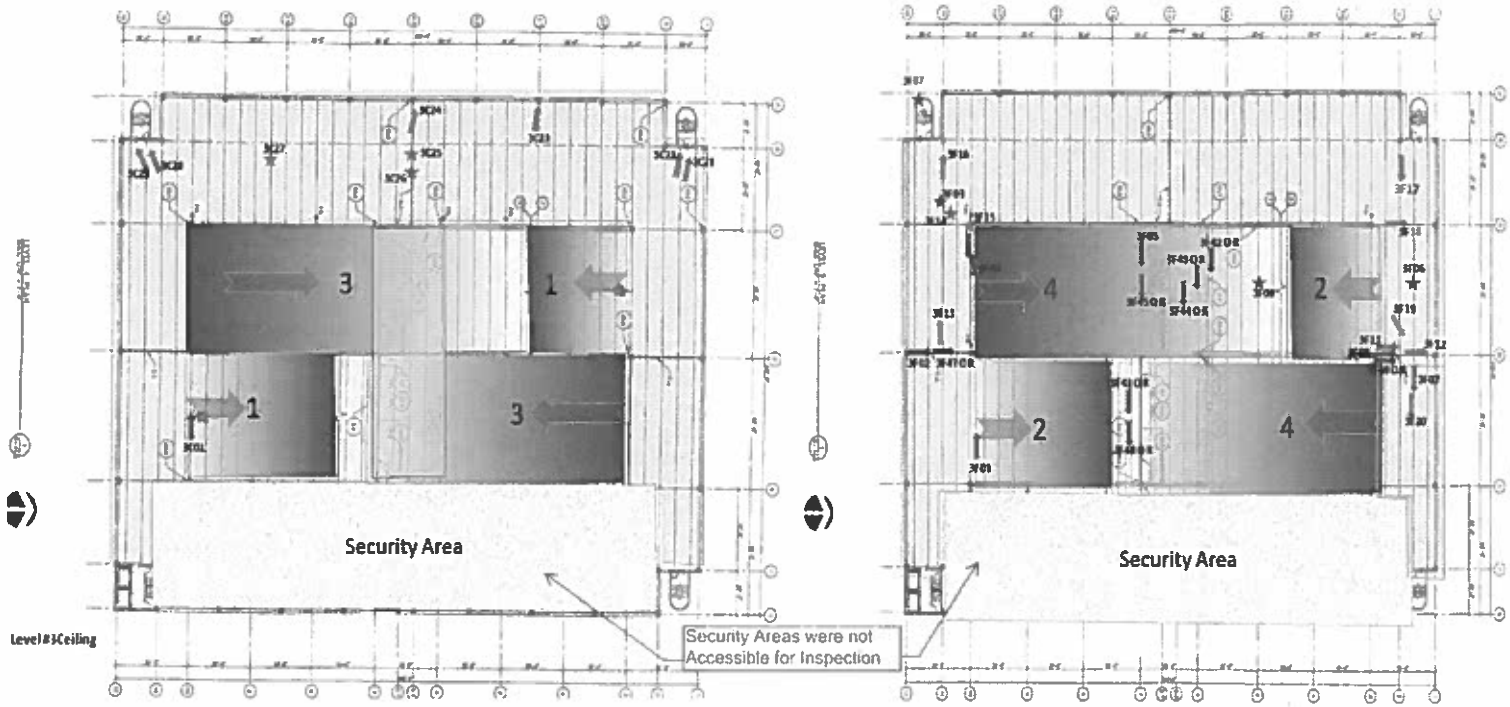


Figure 4: Floor Plans Showing Locations of Photographs

Legends:

Photo Location

Photo Location

3F01 Photo ID

Matrix Engineering Group, Inc.

GEORGIA No. 19197 SAMIR ALWATEEN

ISSUED: 18-APR-2016

NO	REMARKS	DATE
1	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

LEVEL 3 FLOOR AND CEILING PLAN

SHEET S4 OF

Photo ID: 3F01 Category: 3

Photo ID: 3F02 Category: 4+3

Photo ID: 3F03 Category: 3

Photo ID: 3F04 Category: 3

Photo ID: 3F05 Category: 4+7

Photo ID: 3F06 Category: 3

Photo ID: 3F07 Category: 3

Photo ID: 3F08 Category: 4

Photo ID: 3F09 Category: 3

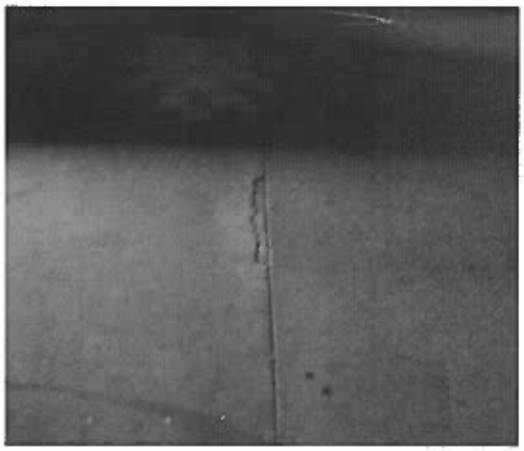


Photo ID: 10 Category: 3

Photo ID: 3F11 Category: 3 + 4 + 5

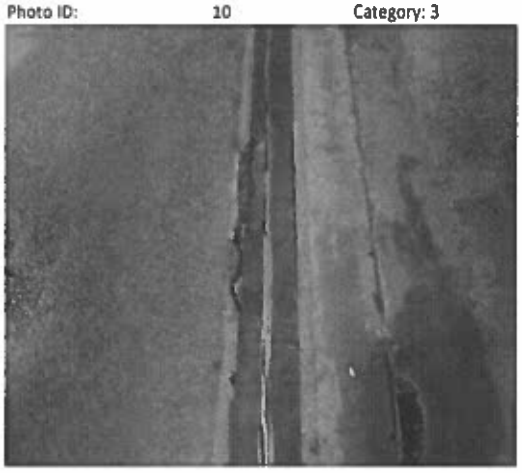


Photo ID: 3F12 Category: 3 + 4 + 5

Photo ID: 3F13 Category: 3

Photo ID: 3F14 Category: 3

Photo ID: 3F15 Category: 3

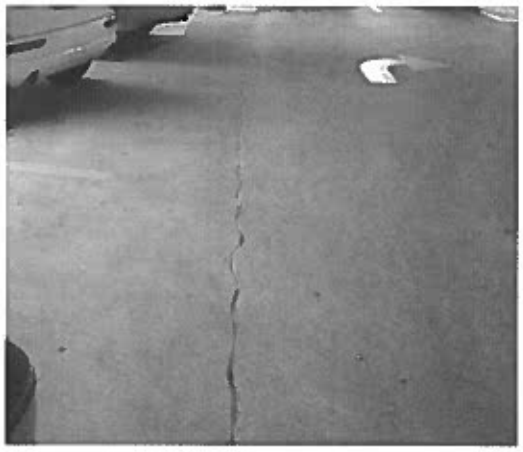


Photo ID: 3F16 Category: 1

Photo ID: 3F17 Category: 1

Photo ID: 3F18 Category: 3

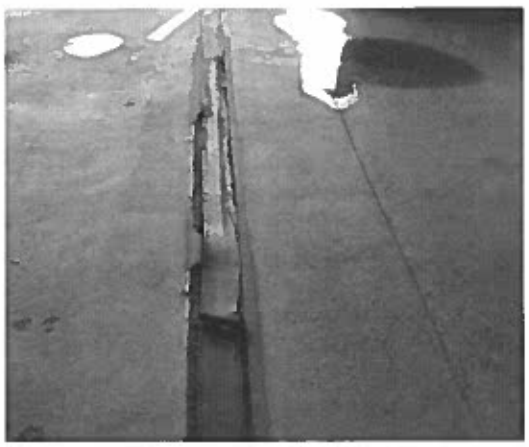
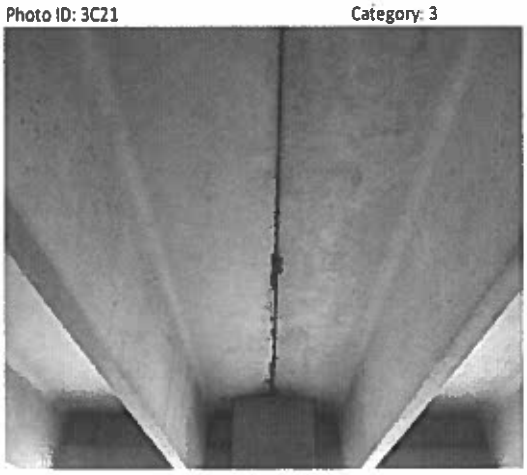


Photo ID: 3F19 Category: 3 + 4

Photo ID: 3F20 Category: 4

Photo ID: 3C21 Category: 3

Photo ID: 3C22 Category: 3



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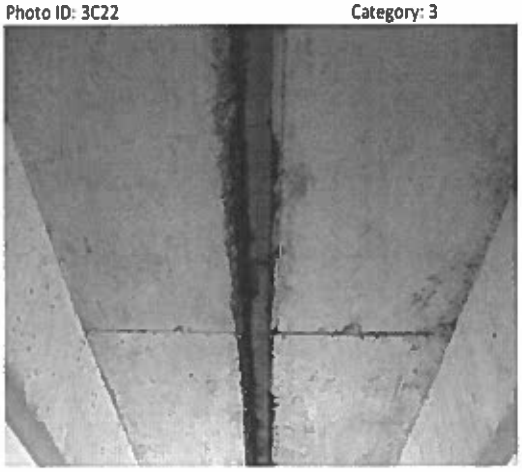

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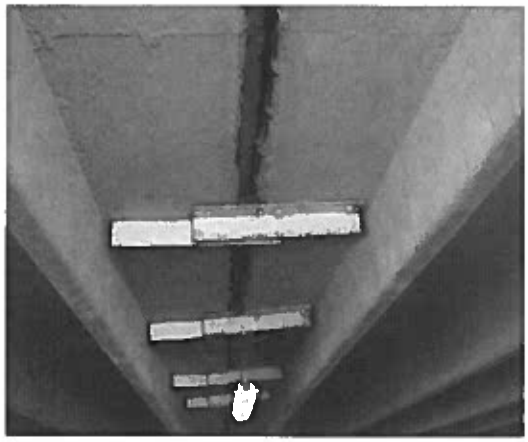


Photo ID: 3C25 Category: 7

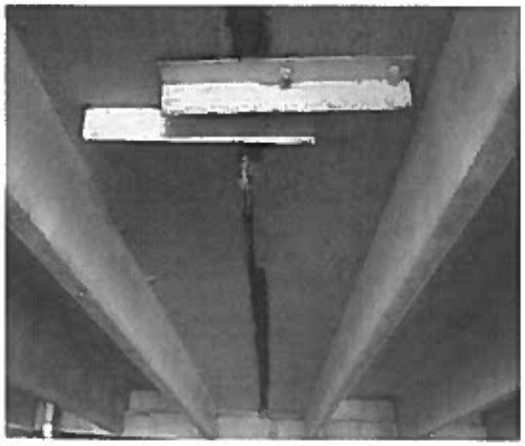


Photo ID: 3C26 Category: 7

Photo ID: 3C27 Category: 3

Photo ID: 3C28 Category: 3

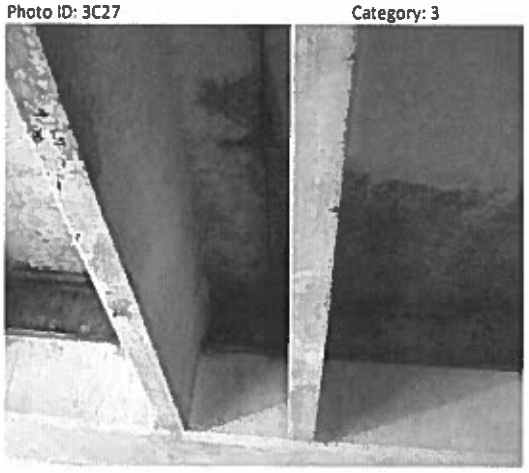


Photo ID: 3C29 Category: 3

Photo ID: 3F41OR Category: 4

Photo ID: 3F42OR Category: 4

Photo ID: 3FOR Category: 5

Photo ID: 3F44OR Category: 5

Photo ID: 3F46OR Category: 3 + 5

Photo ID: 3F47OR Category: 4

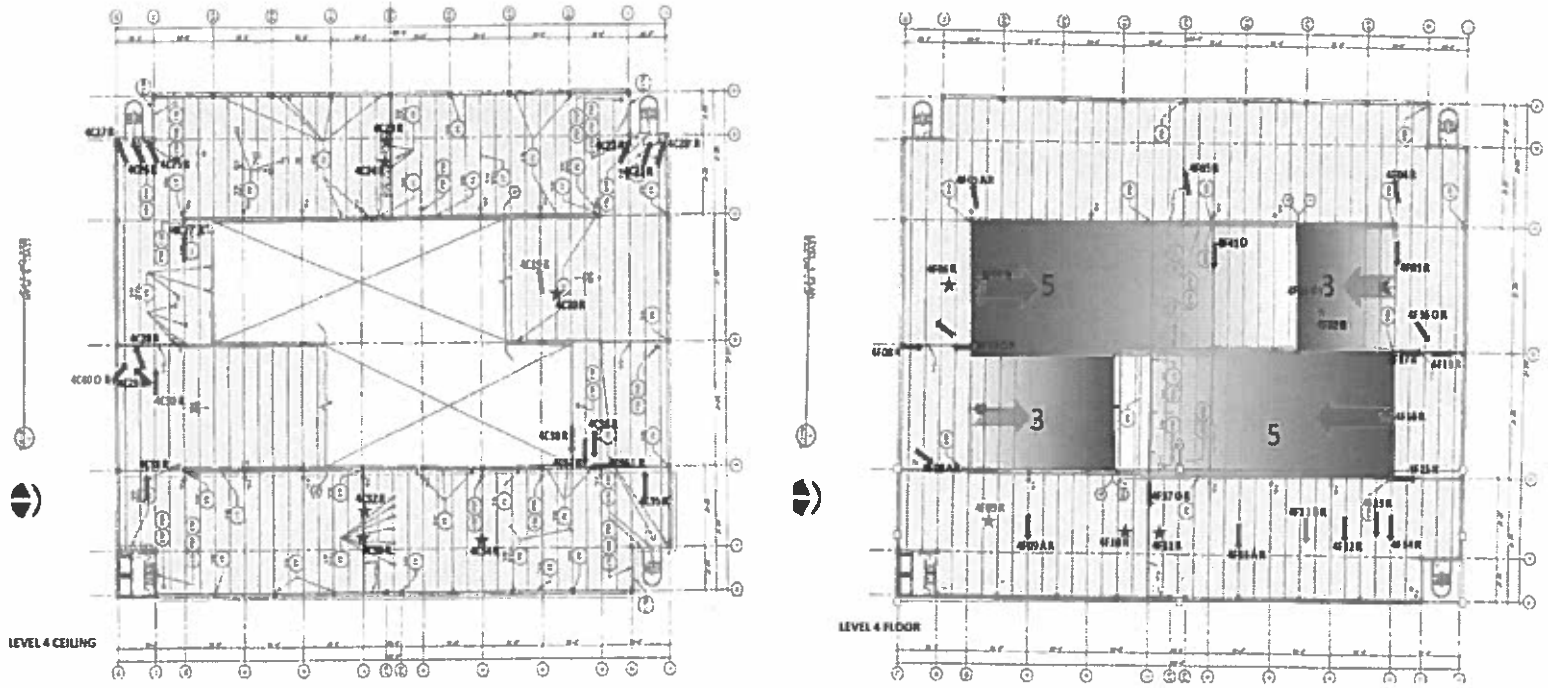
Photo ID: 3F48OR Category: 3

Photo ID: 3F41OR Category: 4

Photo ID: 3F50OR Category: 3 + 4

Matrix Engineering Group, Inc.

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA



Legends:

Photo Location

Photo Location

4F14 R Photo ID

Figure 5: Floor Plans Showing Locations of Photographs

Matrix Engineering Group, Inc.

GEORGIA No. 19197 SAMIR ALYATEEM

ISSUED: 18-APR-2016

NO	REMARKS	DATE
1	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

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LEVEL 4 FLOOR AND CEILING PLAN

SHEET S5 OF

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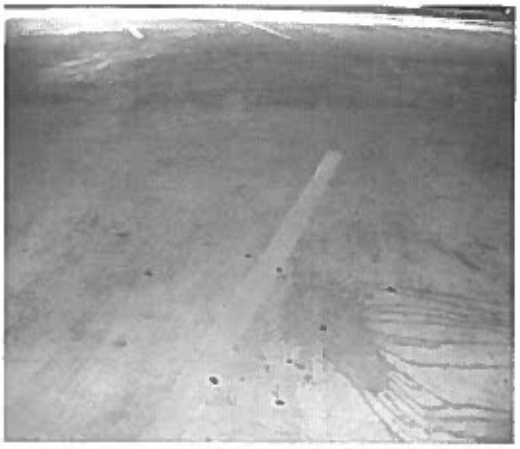

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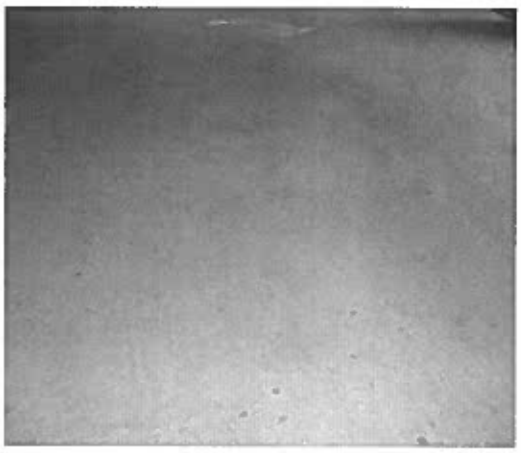

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Photo ID: 4F05R Category: 1

Photo ID: 4F05AR Category: 1

Photo ID: 4F6R Category: 3

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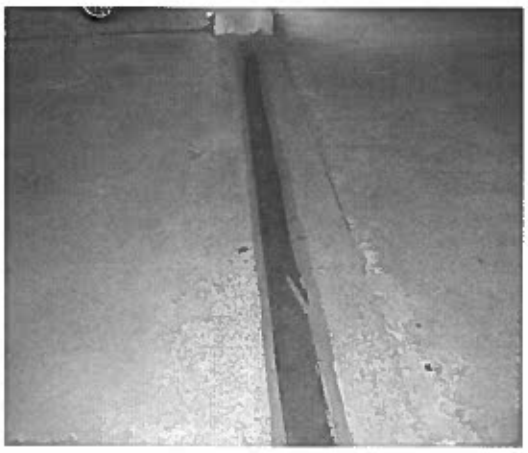

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Photo ID: 4F9R Category: 3

Photo ID:4F9AR Category 1

Photo ID: 4F10R Category: 3

Photo ID: 4F11R Category: 3 + 4

Photo ID: 4F11Ar Category: 3

Photo ID: 4F11BR Category: 3

Photo ID:4F12R Category: 1

Photo ID: 4F13R Category: 1

Photo ID: 4F14R Category: 1

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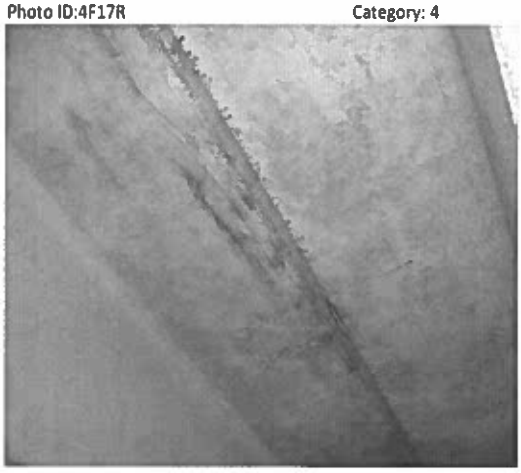

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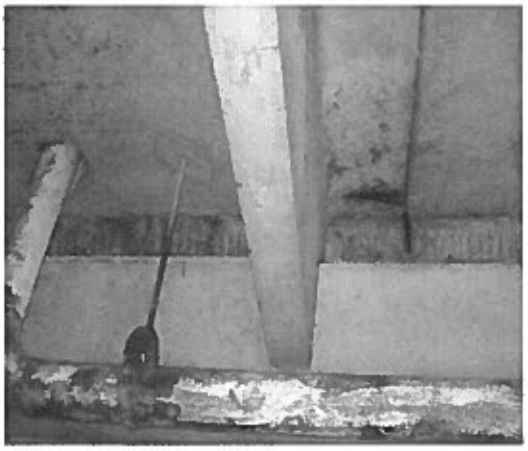
Photo ID: 4C20'r Category: 3+7



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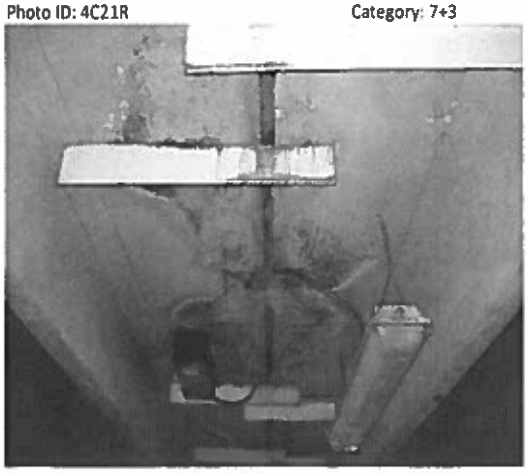

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Photo ID: 4C25R Category: 7 may be 3+5

Photo ID: 4C26R Category: 3 + 5

Photo ID: 4C27R Category: 5

Photo ID: 4C27'R Category: 3 + 5 + 7

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Photo ID: 4C31R Category: 5+3

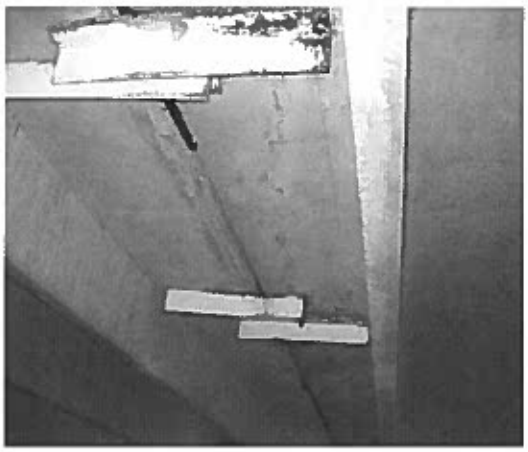

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Photo ID: 4C34R Category: 2

Photo ID: 4C35R Category: 5+3

Photo ID: 4F35LR Category: 5

Photo ID: 4C36R Category: 3 + 5 + 7

Photo ID: 4C37R Category: 3 + 5

Photo ID: 4C38R Category: 5+7

Photo ID: 4F36 OR Category: 5

Photo ID: 4F37 OR Category: 5

Photo ID: 4F38 OR Category: 1

Photo ID: 4F39 OR Category: 4

Photo ID: 4C40 OR Category: 3+ 5

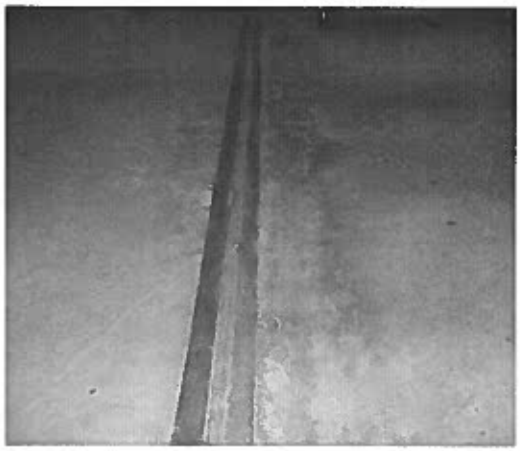

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Photo ID: 4F42 OR Category: 4 + 5

Photo ID: 4F43 OR Category: 4 + 5

Photo ID: 4F44 OR Category: 5

Photo ID: 4F46 OR Category: 5

Photo ID: 4F47 OR Category: 4

Photo ID: 4F48 OR Category: 3

Photo ID: 4F49 OR Category: 3 + 4

Photo ID: 4F50 OR Category: 3 + 4

Photo ID: 4F62g Category: 3 + 5

Photo ID: 4F52 OR Category: 3 + 5

Photo ID: 4F53 OR Category: 3 + 4

Photo ID: 4F54 OR Category: 3 + 4

Photo ID: 4F55 OR Category: 3

Photo ID: 4F56 OR Category: 3

Photo ID: 4F57 OR Category: 3 + 4

Photo ID: 4F59 OG Category: 3

Photo ID: 4F60 OG Category: 3 + 4

Photo ID: 4F61 OG Category: 3 + 4

Photo ID: 4F62 OG Category: 3 + 5

Photo ID: 4F63 OG Category: 3 + 4 + 5

Photo ID: 4F64 OG Category 5

Photo ID: 4F65 OG Category: 4

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Matrix Engineering Group, Inc.

TRINITY PARKING DECK STRUCTURE, DEKALB COUNTY, GA

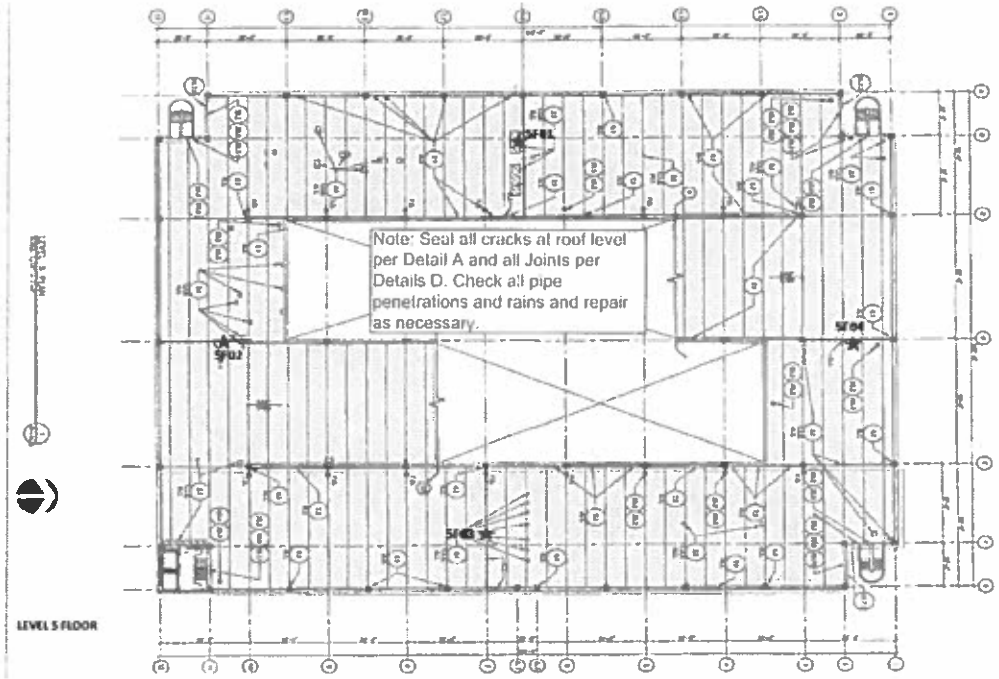

Figure 6: Floor Plans Showing Locations of Photographs

Legends:

★ Photo Location

5F02 Photo ID

Matrix Engineering Group, Inc.

GEORGIA No. 19197 SAMIR ALYATEEM

ISSUED: 18-APR-2016

NO	REVISIONS REMARKS	DATE
1	RELEASE FOR CONSTRUCTION	05-24-2016

DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

FIFTH FLOOR PLAN

SHEET S6 OF

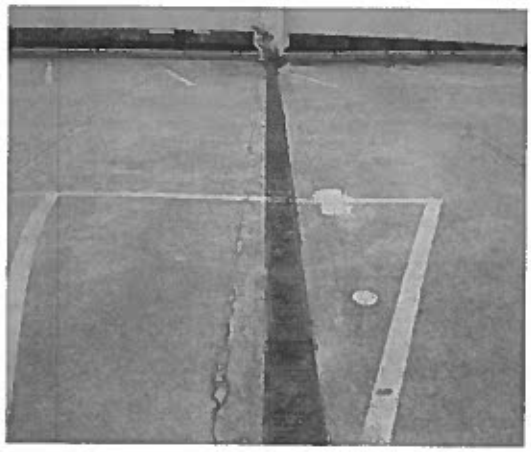

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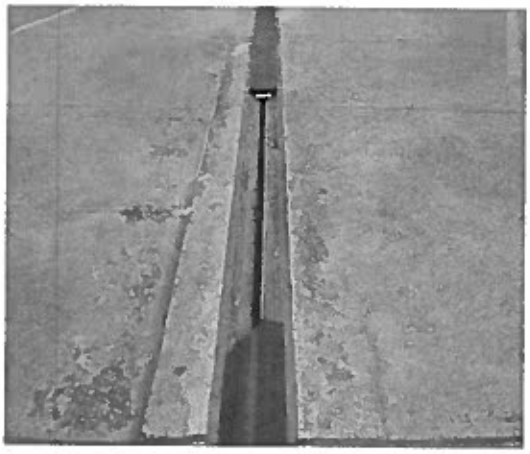
Photo ID: 5F02 Category: 4+3



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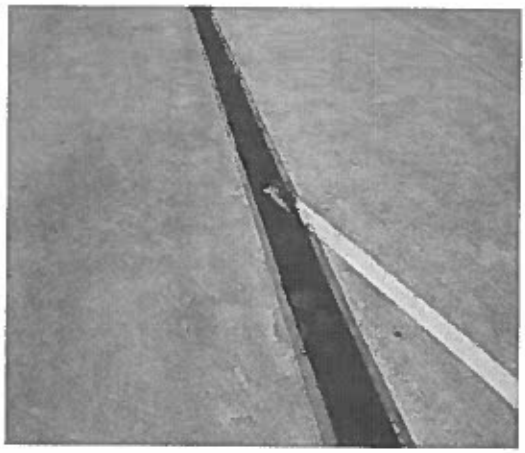

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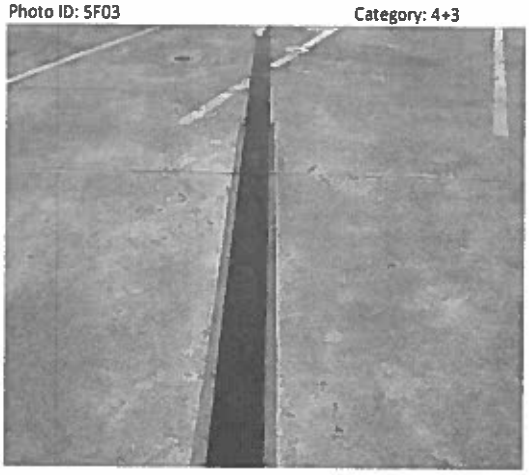

Photo ID: 5F04 Category: 4

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TRINITY PARKIND DECK STRUCTURE, DEKALB COUNTY, GEORGIA

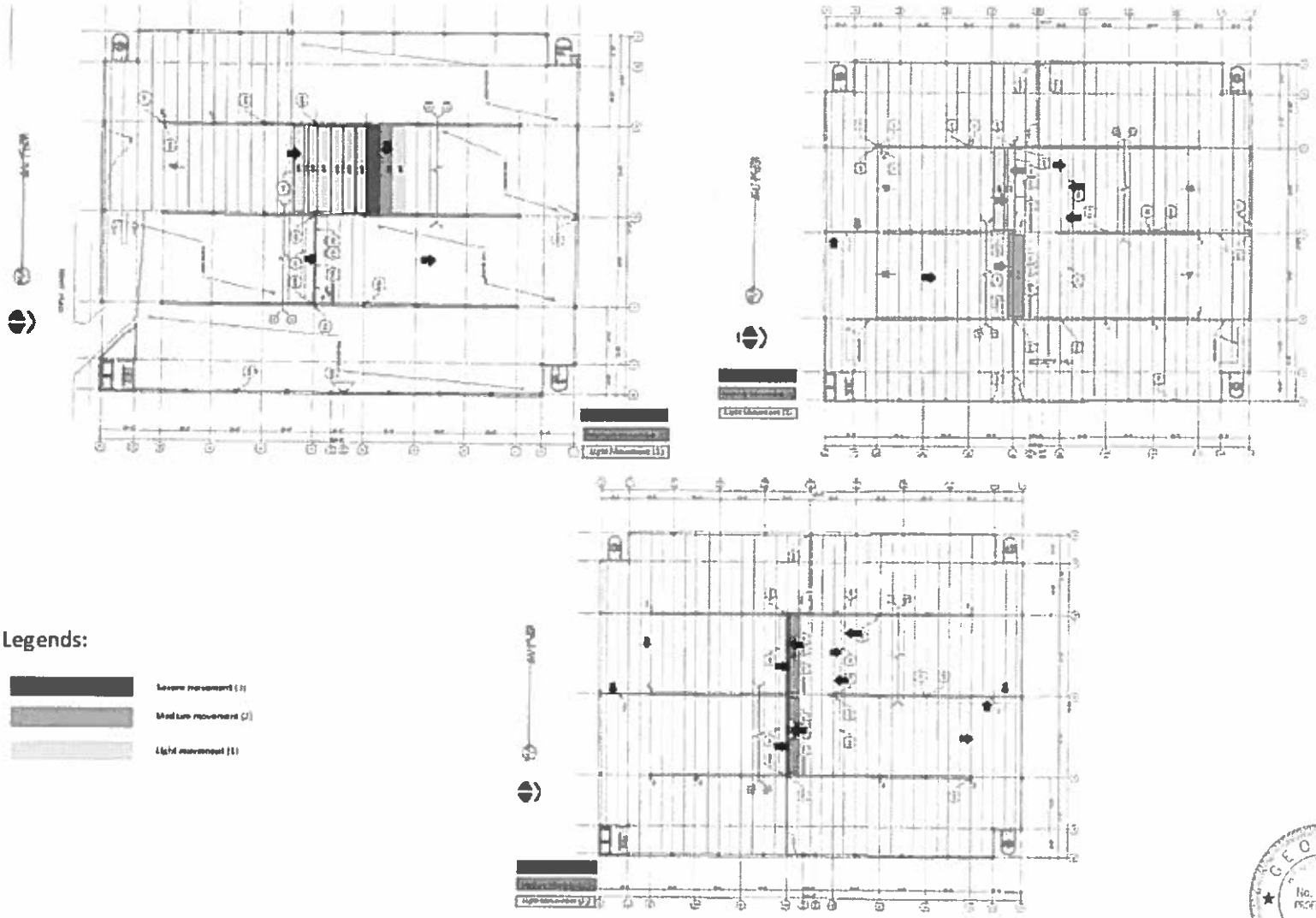

Figure 7: Floor Plans showing locations of Vertical Movements at Double T-Beams

GEORGIA
No. 19197
PROFESSIONAL
SAMIR ALYATEEM

ISSUED: 18-APR-2016

NO	REMARKS	DATE
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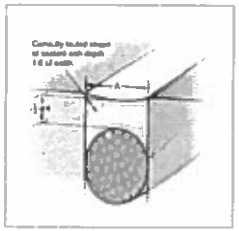
DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

FLOOR PLANS OF
VERTICAL MOVEMENTS

SHEET S7 OF



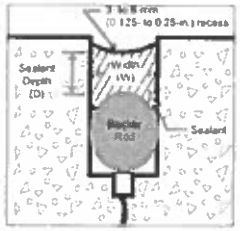
JOINT DETAIL
- FORMED JOINTS

SCALE NTS

01
S8

NOTES

1. FOLLOW ALL MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS FOR PREPARATION AND INSTALLATION
2. Sound and grind tapered edge and repair unsound concrete and grit mixing with low-mod mortar
3. Remove old sealant and clean joints
3.1 REPAIR PRODUCT Sikadur 31 Low mod mortar (Minimum 30MS over dried sand)
4. Seal joints with hot component sealant and properly sized and placed backer rod
4.1 Sikaflex 2CNSTR



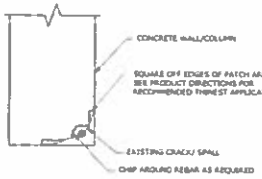
JOINT DETAIL

SCALE NTS

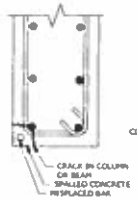
01-A
S8

NOTES

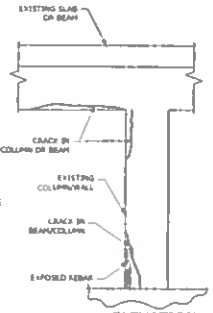
1. FOLLOW ALL MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS FOR PREPARATION AND INSTALLATION
2. Sound and grind edges to determine soundness of adjacent ground edges.
3. Route and seal joints with hot component sealant and properly sized and placed backer rod
3.1 REPAIR PRODUCT Sikaflex 2CNSTR



DETAIL OF PATCH PREPARATION



SECTION B-B



ELEVATION

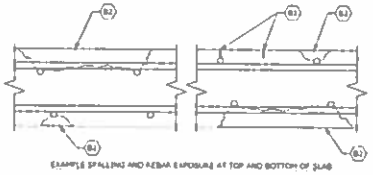
Repair Program A - Exposed Rebar
Repair and restoration of exposed and corroded reinforcing for vertical and overhead conditions

1. Follow all instructions and recommendations of Manufacturer for surface prep and installation of repair products. Cure as directed by manufacturer.
2. Chip away all loose and delaminated concrete.
3. Notify engineer of any rebar that has experienced a loss of cross section in excess of 30% for possible reinforcement.
4. Square off repair area with 1/4-inch deep edges, minimum, and achieve an ICRI CSP # 7-8. Coordinate depth of squared off area with minimum depth requirements of product used in a particular repair area.
5. Remove concrete around perimeter of reinforcing where more than 1/3 of perimeter of bar is exposed. Clearance around bar need only be that necessary for removal of concrete, cleaning of rebar, and application of repair products.
6. Mechanically clean steel with wire brush or sand blasting to a bare steel condition.
7. Apply anti-corrosion bonding agent - Armatec 110 Epocrete - to steel.
8. Saturate Concrete to a SSD condition
9. Patch concrete with cementitious overhead non-sag mortar - Sika 123 Plus.
10. Cure as directed by manufacturer.

DETAIL COLUMN AND BEAM REPAIR

SCALE 3/4" = 1'-0"

02
S8



EXAMPLE SPALLING AND REBAR EXPOSURE AT TOP AND BOTTOM OF SLAB

Repair Program B -Concrete Slab and Stair Surface Repair:

TYPE B1

1. Type B1 conditions are cracks in the slab or stair surface that appear to have water penetrating the crack but have not yet caused concrete to spall.
2. Sound test around cracks to determine the soundness of concrete around the cracks.
3. Route and seal the cracks with SIKAFLEX 2C NS/SL, two component sealant.
4. Following all manufacturer's instructions and recommendations for preparation, installation and curing.

TYPE B2

1. Type B2 conditions have spalled concrete and exposed rebar.
2. Follow all instructions and recommendations of Manufacturer for surface prep and installation of repair products. Cure as directed by manufacturer.
3. Chip away all loose and delaminated concrete.
4. Notify engineer of any rebar that has experienced a loss of cross section in excess of 30% for possible reinforcement.
5. Square off repair area with 1/4-inch deep edges, minimum, and achieve an ICRI CSP # 7-8. Coordinate depth of squared off area with minimum depth requirements of product used in a particular repair area.
6. Remove concrete around perimeter of reinforcing where more than 1/3 of perimeter of bar is exposed. Clearance around bar need only be that necessary for removal of concrete, cleaning of rebar, and application of repair products.
7. Mechanically clean steel with wire brush or sand blasting to a bare steel condition.
8. Apply anti-corrosion bonding agent - Armatec 110 Epocrete - to steel.
9. Saturate Concrete to a SSD condition
10. Patch concrete with cementitious overhead non-sag mortar - Sika 123 Plus.
11. Cure as directed by manufacturer.

OWNER OPTION ADD/ALTERNATE

12. The owner may, at this option, have the contractor prep and install a surface coating over all horizontal surfaces in the exposed stairs to reduce water infiltration and slow the rate of deterioration of concrete and rebar. See repair procedure below
13. Remove loose and delaminated concrete.
14. Prepare surface in accordance with manufacturer's directions and recommendations.
15. Install leveling compound in some areas. See repair detail D.
16. Apply Safeguard Flexcoat System in accordance with manufacturer's directions and recommendations.
17. Cure as directed by the manufacturer.

DETAIL SLAB AND STAIR REPAIR

SCALE: 3/4" = 1'-0"

03
S8

ISSUED: 18-APR-2016		
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DEKALB COUNTY PARKING DECK
COMMERCE DRIVE & TRINITY PLACE
DECATUR, GA

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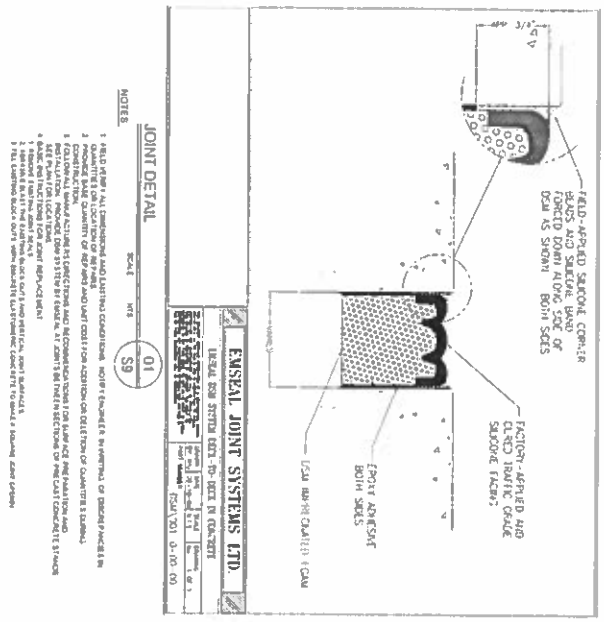
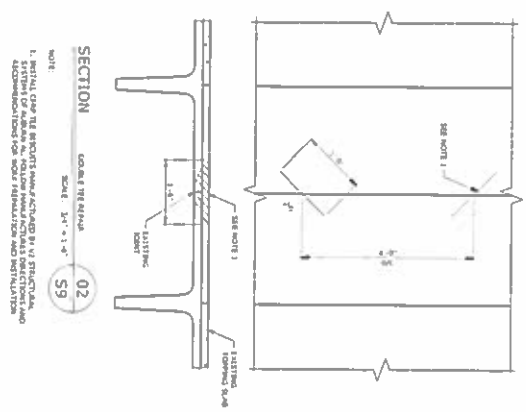
PALMER & PARTNERS ENGINEERING COMPANY

PPE PROJECT No. 16-31
Drawn By: BJA

REPAIR DETAILS

SHEET S8 OF





GEORGIA
REGISTERED
No. 19197
PROFESSIONAL
ENGINEER
SAMIR ALYATEEM

SHEET S9 OF	REPAIR DETAILS	THIS DRAWING IS THE PROPERTY OF PALMER ENGINEERING COMPANY AND MAY NOT BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION OF PALMER ENGINEERING COMPANY PALMER ENGINEERING COMPANY	DEKALB COUNTY PARKING DECK COMMERCE DRIVE & TRINITY PLACE DECATUR, GA	ISSUED: 18-APR-2016 REVISIONS NO. REMARKS DATE 1 RELEASE FOR CONSTRUCTION 05-24-2016