WINTON WOODS CITY SCHOOLS

2016 Elementary School and High School Concrete Repairs

CINCINNATI, OHIO

Prepared by:

THP Limited, Inc.
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201	REPAIR DETAILS

LOCATION MAP

GENERAL NOTES:

CODES AND DOCUMENTS

1. ALL WORK SHALL CONFORM TO THE OHIO BUILDING CODE.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL LAWS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
3. A SEPARATE PROJECT MANUAL DATED MAY 19, 2016 EXISTS AND IS PART OF THE CONTRACT DOCUMENTS. TECHNICAL INFORMATION AND REQUIREMENTS ARE INCLUDED IN THE PROJECT MANUAL. CLEARLY ORGANIZED AND DESCRIBED IN SECTION CONSISTENT WITH NORMALLY ACCEPTED CONSTRUCTION SPECIFICATION INSTITUTE FORMATS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS LISTED IN THE PROJECT MANUAL, BUT NOT NECESSARILY INCLUDED IN THE DRAWINGS.
4. ALL DETAILS, SECTIONS AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED.

COORDINATION AND CONSTRUCTION

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, RIGGING, PLATFORMS AND EQUIPMENT FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
2. CONTRACTOR SHALL APPLY, SECURE, AND PAY FOR ALL REQUIRED LOCAL PERMITS, FEES, LICENSES, AND APPROVAL FOR COMPLETION OF THE WORK.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO SUBMITTING SHOP DRAWINGS AND FABRICATING WORK. IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS PART OF THEIR RESPONSIBILITY, THE CONTRACTOR SHALL RETAIN SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE CONSTRUCTION OF ALL SCAFFOLDING FOR WORKMEN AND SHORING FOR NEW SLAB.
5. NEW CONSTRUCTION WORK SHALL ALIGN WITH AND MATCH EXISTING CONSTRUCTION WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
6. ANY ADJACENT, EXISTING FINISHES AND/OR EQUIPMENT DAMAGED DURING DEMOLITION OR CONSTRUCTION WORK SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR WILL COORDINATE ALL CONSTRUCTION ACTIVITIES, SCHEDULE, AND PHASING WITH THE OWNER AND THE ENGINEER.
8. CONTRACTOR SHALL FURNISH THE OWNER AND ENGINEER ACCESS TO ALL WORK AREAS DURING NORMAL WORKING HOURS.
9. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS OFF SITE IN A LAWFUL MANNER.

WORK AREA RESTRICTIONS

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.
3. CONTRACTOR SHALL PROVIDE ALL SIGNAGE REQUIRED TO CLEARLY ESTABLISH THE WORK AREAS AS RESTRICTED AND OFF LIMITS TO THE PUBLIC. ALL SIGNS SHALL BE PROFESSIONALLY PREPARED AND REVIEWED IN ADVANCE BY THE OWNER.
4. CONTRACTOR SHALL PROVIDE ALL SIGNAGE AND ADDITIONAL TRAFFIC CONTROL METHODS TO SAFELY REROUTE PEDESTRIAN AND VEHICULAR TRAFFIC AROUND WORK AREAS.
5. CONTRACTOR SHALL PROVIDE DUST AND DEBRIS CONTROL MEASURES TO ENSURE ALL DUST AND DEBRIS GENERATED BY THE WORK REMAINS WITHIN THE WORK AREA AND DOES NOT POSE HAZARDOUS OR OBJECTIONABLE CONDITIONS FOR GARAGE AND BUILDING OCCUPANTS AND THE GENERAL PUBLIC.
6. THE CONTRACTOR SHALL MAINTAIN A CLEAN AND ORDERLY SITE AND STORAGE AREA.
7. CONTRACTOR SHALL INSTALL AND MAINTAIN 8'-0" CHAIN-LINK FENCE AROUND WORK AREAS FOR DURATION OF PROJECT.

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ISSUES

1	5/19/16	FOR BID

REVISIONS

DRAWN BY: T. VAVRO
ENGINEER: J. HOLLIS
CHECKED BY: W. JUDD

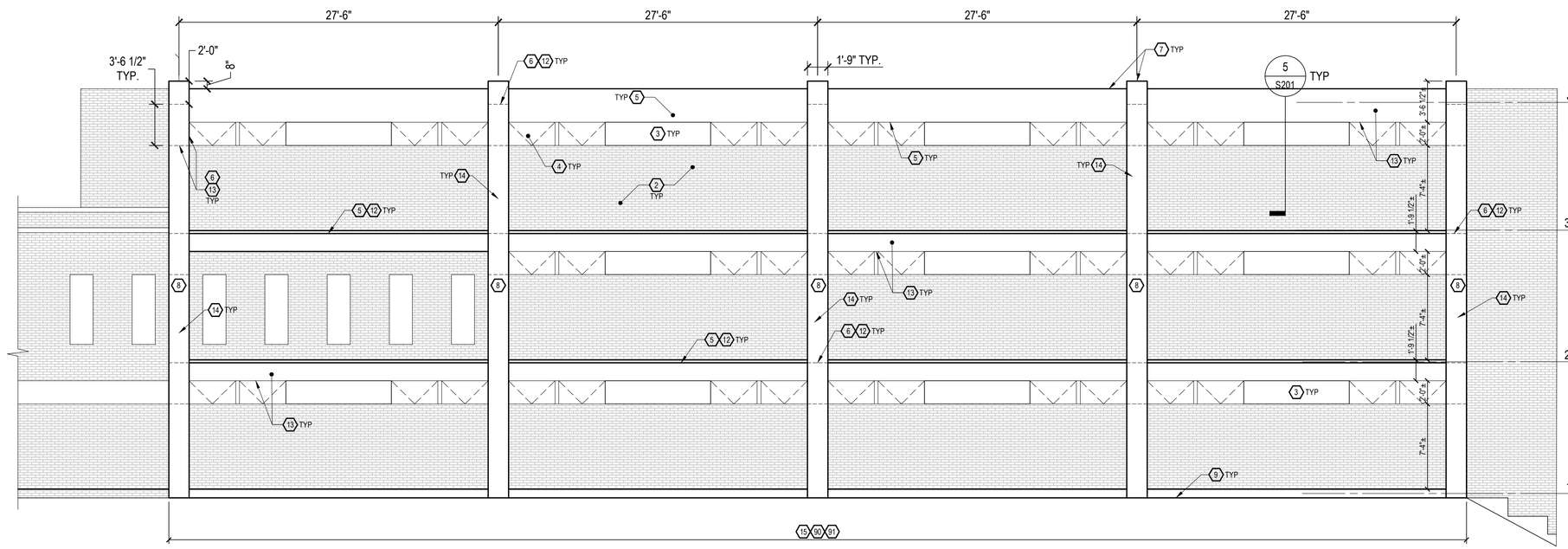
WINTON WOODS CITY SCHOOLS

2016 CONCRETE REPAIRS

DRAWING TITLE
TITLE SHEET, DRAWING INDEX, AND GENERAL NOTES

JOB NUMBER 16055.00
DATE 5/19/2016

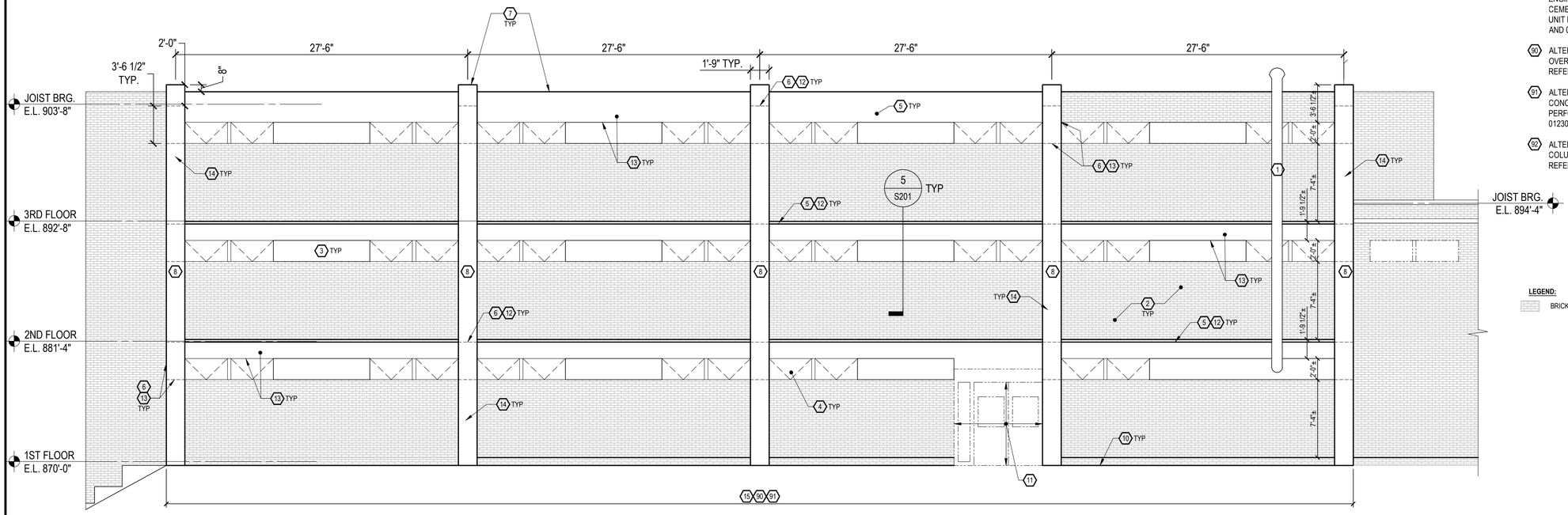
DRAWING NUMBER
001



CONCRETE REPAIR

A/101 NORTHWEST ELEVATION

NOT TO SCALE



CONCRETE REPAIR

B/101 SOUTHEAST ELEVATION

NOT TO SCALE

PROJECT DRAWING NOTES:

1. CONTRACTOR SHALL PROTECT, AS NECESSARY, ALL EXISTING BUILDING FEATURES TO REMAIN. DO NOT DAMAGE. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED FEATURES (AS A RESULT OF INADEQUATE OR IMPROPER PROTECTION) TO THE SATISFACTION OF THE OWNER.
2. FIELD VERIFY ALL DIMENSIONS FOR EXISTING BUILDING STRUCTURE.
3. CONTRACTOR TO PROVIDE SHORING TO GRADE FOR COLUMNS WHERE MORE THAN ONE VERTICAL REINFORCING BAR IS EXPOSED FOR A LENGTH GREATER THAN 1'-0" OR IF ONE BAR IS EXPOSED FOR MORE THAN 2'-0" WITHIN AN AREA TO BE PATCHED.

PLAN KEY NOTES:

1. EXISTING EXHAUST PIPE, DO NOT DAMAGE.
2. EXISTING BRICK MASONRY, DO NOT DAMAGE.
3. EXISTING CONCRETE HOOD, DO NOT DAMAGE.
4. EXISTING WINDOW, DO NOT DAMAGE.
5. EXISTING CONCRETE BEAM.
6. EXISTING CONCRETE BEAM BEHIND CONCRETE COLUMN.
7. EXISTING BREAK METAL FLASHING, DO NOT DAMAGE.
8. EXISTING CONCRETE COLUMN
9. EXISTING GRASS SURFACE, DO NOT DAMAGE. CONTRACTOR TO LOCATE AND PROTECT ALL UTILITIES, SPRINKLER LINES, DRAINS, ETC. PRIOR TO STARTING WORK.
10. EXISTING PAVED SURFACE, DO NOT DAMAGE.
11. EXISTING BUILDING ENTRANCE/EXIT. DO NOT BLOCK FOR THE DURATION OF PROJECT. PROVIDE OVERHEAD PROTECTION WHEN WALKING ABOVE THIS AREA.
12. CONTRACTOR TO SURVEY TOP OF CONCRETE BEAMS TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAIL 1 ON DRAWING 201 AND SPECIFICATION SECTION 030100.
13. CONTRACTOR TO SURVEY BOTTOM AND SIDES OF CONCRETE BEAMS TO LOCATE AND MARK DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAILS 2 AND 4 (SIM.) ON DRAWING 201 AND SPECIFICATION SECTION 030100.
14. CONTRACTOR TO SURVEY ALL CONCRETE COLUMN SURFACES TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAIL 3 AND 4 ON DRAWING 201 AND SPECIFICATION SECTION 030100.
15. CONTRACTOR TO SURVEY ALL CONCRETE BEAM AND COLUMN SURFACES TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE PARGE COAT WITH ENGINEER. REMOVE DETERIORATED PARGE COAT AND INSTALL NEW CEMENTITIOUS PARGE COAT. PARGE COAT REPAIR TO BE PAID ON A UNIT PRICE COST BASIS. REFER TO SPECIFICATION SECTION 012100 AND 030100.
90. ALTERNATE #1: INSTALL ACRYLIC HIGH PERFORMANCE COATING OVER CONCRETE REPAIR AREAS AND PARGE COAT REPAIR AREAS. REFER TO SPECIFICATION SECTION 012300 AND 099101.
91. ALTERNATE #2: CLEAN ALL EXISTING ELEMENTARY SCHOOL CONCRETE COLUMNS AND BEAMS AND APPLY ELASTOMERIC HIGH PERFORMANCE COATING. REFER TO SPECIFICATION SECTION 012300 AND 099101.
92. ALTERNATE #3: CLEAN HIGH SCHOOL ENTRANCE CONCRETE COLUMNS AND BEAMS AND APPLY SILANE WATER REPELLENT. REFER TO SPECIFICATION SECTION 012300 AND 071916.

LEGEND:

BRICK MASONRY

THP

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ISSUES
1 FOR BID 5/19/16

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CHECKED BY: W. JUDD

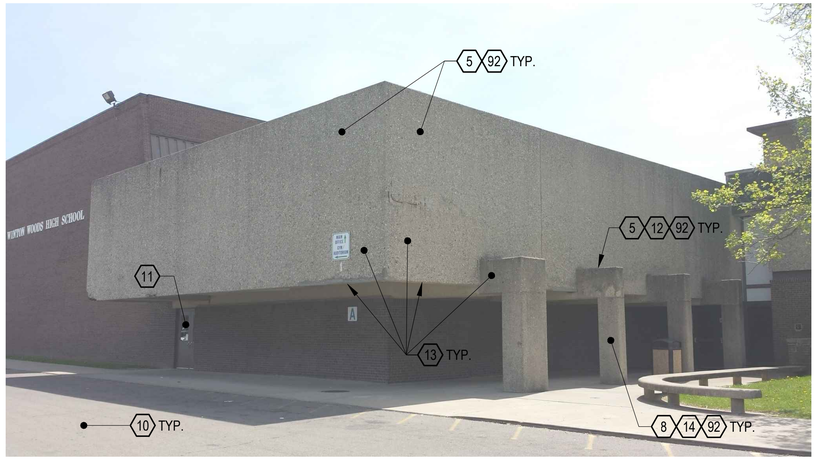
WINTON WOODS CITY SCHOOLS

2016 CONCRETE REPAIRS

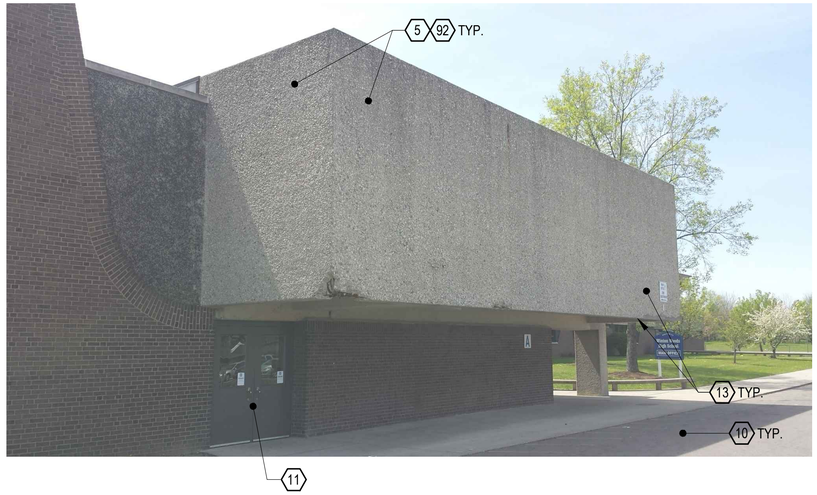
DRAWING TITLE
ELEMENTARY SCHOOL ELEVATIONS

JOB NUMBER 16055.00
DATE 5/19/2016

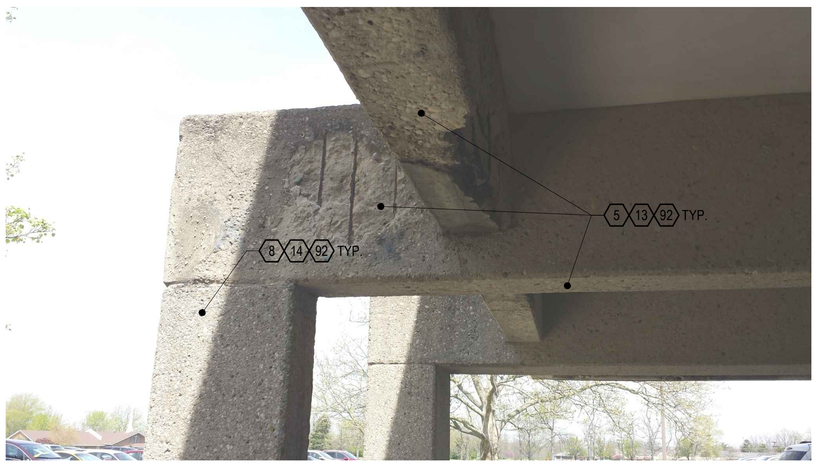
DRAWING NUMBER
101



A 102 **NORTHWEST CORNER**
NOT TO SCALE



B 102 **NORTHEAST CORNER**
NOT TO SCALE



C 102 *LOOKING NORTH*
HIGH SCHOOL ENTRANCE
NOT TO SCALE



D 102 *LOOKING SOUTH*
HIGH SCHOOL ENTRANCE
NOT TO SCALE

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3. CONTRACTOR TO PROVIDE SHORING TO GRADE FOR COLUMNS WHERE MORE THAN ONE VERTICAL REINFORCING BAR IS EXPOSED FOR A LENGTH GREATER THAN 1'-0" OR IF ONE BAR IS EXPOSED FOR MORE THAN 2'-0" WITHIN AN AREA TO BE PATCHED.

PLAN KEY NOTES:

1. EXISTING EXHAUST PIPE, DO NOT DAMAGE.
2. EXISTING BRICK MASONRY, DO NOT DAMAGE.
3. EXISTING CONCRETE HOOD, DO NOT DAMAGE.
4. EXISTING WINDOW, DO NOT DAMAGE.
5. EXISTING CONCRETE BEAM.
6. EXISTING CONCRETE BEAM BEHIND CONCRETE COLUMN.
7. EXISTING BREAK METAL FLASHING, DO NOT DAMAGE.
8. EXISTING CONCRETE COLUMN
9. EXISTING GRASS SURFACE, DO NOT DAMAGE. CONTRACTOR TO LOCATE AND PROTECT ALL UTILITIES, SPRINKLER LINES, DRAINS, ETC. PRIOR TO STARTING WORK.
10. EXISTING PAVED SURFACE, DO NOT DAMAGE.
11. EXISTING BUILDING ENTRANCE/EXIT. DO NOT BLOCK FOR THE DURATION OF PROJECT. PROVIDE OVERHEAD PROTECTION WHEN WALKING ABOVE THIS AREA.
12. CONTRACTOR TO SURVEY TOP OF CONCRETE BEAMS TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAIL 1 ON DRAWING 201 AND SPECIFICATION SECTION 030100.
13. CONTRACTOR TO SURVEY BOTTOM AND SIDES OF CONCRETE BEAMS TO LOCATE AND MARK DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAILS 2 AND 4 (SIM.) ON DRAWING 201 AND SPECIFICATION SECTION 030100.
14. CONTRACTOR TO SURVEY ALL CONCRETE COLUMN SURFACES TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAIL 3 AND 4 ON DRAWING 201 AND SPECIFICATION SECTION 030100.
15. CONTRACTOR TO SURVEY ALL CONCRETE BEAM AND COLUMN SURFACES TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE PARGE COAT WITH ENGINEER. REMOVE DETERIORATED PARGE COAT AND INSTALL NEW CEMENTITIOUS PARGE COAT. PARGE COAT REPAIR TO BE PAID ON A UNIT PRICE COST BASIS. REFER TO SPECIFICATION SECTION 012100 AND 030100.
90. ALTERNATE #1: INSTALL ACRYLIC HIGH PERFORMANCE COATING OVER CONCRETE REPAIR AREAS AND PARGE COAT REPAIR AREAS. REFER TO SPECIFICATION SECTION 012300 AND 099101.
91. ALTERNATE #2: CLEAN ALL EXISTING ELEMENTARY SCHOOL CONCRETE COLUMNS AND BEAMS AND APPLY ELASTOMERIC HIGH PERFORMANCE COATING. REFER TO SPECIFICATION SECTION 012300 AND 099101.
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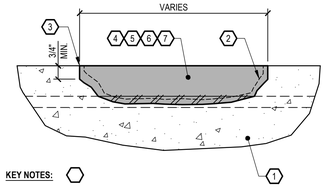
WINTON WOODS CITY SCHOOLS

2016 CONCRETE REPAIRS

DRAWING TITLE
HIGH SCHOOL ENTRANCE

JOB NUMBER 16055.00
DATE 5/19/2016

DRAWING NUMBER
102



KEY NOTES:

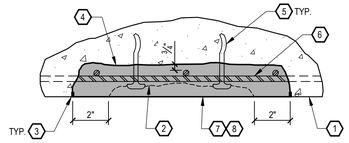
1. EXISTING CONCRETE BEAM.
2. EXISTING DELAMINATION PLANE.
3. PROVIDE 3/4" SAWCUT AROUND PERIMETER OF REPAIR AREA.
4. REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
5. PREPARE AND COAT EXISTING REINFORCING WITHIN PATCH AREA. REFER TO SPECIFICATION SECTION 030100.
6. PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.
7. FINISH TO MATCH ADJACENT SURFACE AND TEXTURE. REFER TO SPECIFICATION SECTION 099101.

HORIZONTAL CONCRETE REPAIR

1/201 DETAIL

NO SCALE

PAY UNIT PER SQ.FT.



KEY NOTES:

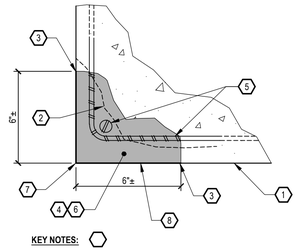
1. UNDERSIDE OF CONCRETE SURFACE REQUIRING REPAIRS.
2. EXISTING DELAMINATION PLANE.
3. PROVIDE 1/2" SAWCUT AROUND PERIMETER OF PATCH.
4. REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
5. INSTALL 1/4" DIA x 3" LONG PATCH ANCHORS EVERY 1'-0" O.C. EACH WAY. REFER TO SPECIFICATION SECTION 030100.
6. PREPARE AND COAT EXISTING REINFORCING WITHIN PATCH AREA. REFER TO SPECIFICATION SECTION 030100.
7. PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.
8. FINISH TO MATCH ADJACENT SURFACE AND TEXTURE. REFER TO SPECIFICATION SECTION 099101.

OVERHEAD CONCRETE REPAIR

2/201 DETAIL

NO SCALE

PAY UNIT PER SQ.FT.



KEY NOTES:

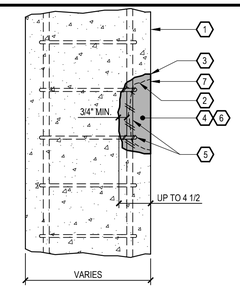
1. EXISTING CONCRETE COLUMN.
2. EXISTING DELAMINATION PLANE.
3. PROVIDE 1/2" SAWCUT AROUND PERIMETER OF REPAIR AREA.
4. REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
5. EXCAVATE 3/4" AROUND ALL REINFORCING. PREPARE AND COAT EXISTING REINFORCING WITHIN PATCH AREA. REFER TO SPECIFICATION SECTION 030100.
6. PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.
7. FORM CHAMFER AT CORNER OF BEAM TO MATCH EXISTING.
8. FINISH TO MATCH ADJACENT SURFACE AND TEXTURE. REFER TO SPECIFICATION SECTION 099101.

COLUMN CORNER CONCRETE REPAIR

3/201 DETAIL

NOT TO SCALE

PAY UNIT PER LIN. FT.



KEY NOTES:

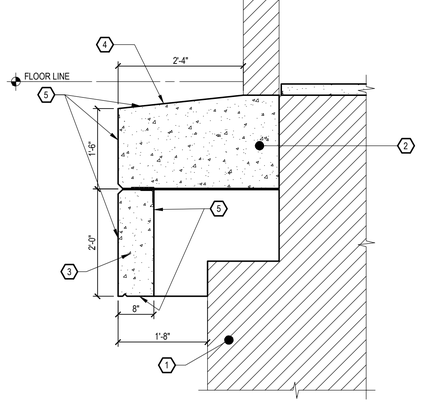
1. EXISTING CONCRETE COLUMN OR WALL.
2. EXISTING DELAMINATION PLANE.
3. PROVIDE 3/4" SAWCUT AROUND PERIMETER OF REPAIR AREA.
4. REMOVE ALL SOUND AND UNSOUND CONCRETE WITHIN SHADED AREA. REFER TO SPECIFICATION SECTION 030100.
5. EXCAVATE 3/4" AROUND ALL REINFORCING. PREPARE AND COAT EXISTING REINFORCING WITHIN PATCH AREA. REFER TO SPECIFICATION SECTION 030100.
6. PREPARE CAVITY SURFACES AND INSTALL PATCH MATERIAL. REFER TO SPECIFICATION SECTION 030100.
7. FINISH TO MATCH ADJACENT SURFACE AND TEXTURE. REFER TO SPECIFICATION SECTION 099101.

VERTICAL SURFACE REPAIR

4/201 DETAIL

NO SCALE

PAY UNIT PER SQ.FT.



KEY NOTES:

1. BRICK MASONRY
2. CONCRETE BEAM
3. CONCRETE HOOD
4. CONTRACTOR TO REVIEW TOP OF CONCRETE BEAMS TO LOCATE AND MARK SPALLED, DELAMINATED, OR OTHERWISE DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAIL 1 ON DRAWING 201 AND SPECIFICATION SECTION 030100.
5. CONTRACTOR TO REVIEW BOTTOM AND SIDES OF CONCRETE BEAMS TO LOCATE AND MARK DETERIORATED CONCRETE FOR ENGINEER'S REVIEW. REMOVE AND REPLACE DETERIORATED CONCRETE PER DETAILS 2,3 (SIM.), AND 4 (SIM.) ON DRAWING 201 AND SPECIFICATION SECTION 030100.

5/201 SECTION A

NOT TO SCALE

THP

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WINTON WOODS CITY SCHOOLS

2016 CONCRETE REPAIRS

DRAWING TITLE: REPAIR DETAILS

JOB NUMBER: 16055.00 DATE: 5/19/2016

DRAWING NUMBER: 201