ZEIDLER MUNICIPAL BUILDING - LOWER LEVEL PARKING RESTORATION

841 North Broadway
Milwaukee, WI. 53202

eppstein uhen : architects

City of Milwaukee

CONSTRUCTION DOCUMENTS

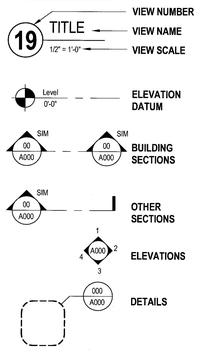
04/22/2011 **PROJECT NUMBER: 310077-07**

ABBREVIATIONS

A	
A/C	air condition
A/E	Architect/Engineer
ACT	accoustical ceiling tile
ADDL	additional
ADD	addendum
AFC	above finished counter
AFF	above finished floor
AFG	above finished grade
AFS	above finished slab
ALT	alternate
ALUM	aluminum
APPD	approved
APT	apartment
ASC	above suspended ceiling
B	
BB	baseboard
BB	bulletin board
BLDG	building
BL	blinds (window)
BLT	borrowed light
BLW	below
BPL	base plate
BO	bottom of
BOS	bottom of steel
C	
CB	catch basin
CB	construction bulletin
CF/CI	contractor furnished, contractor installed
CF/OI	contractor furnished, owner installed
CF/VI	contractor furnished, vendor installed
CG	corner guard
CH BD	chalkboard
CIP	cast-in-place
CJ	control joint
C (continued)	
CJ	construction joint
CL	centerline
CLG	ceiling
CLR	clear
CM	construction management
CMU	concrete masonry unit
CO	cleanout
COL	column
CONC	concrete
CORR	corridor
CONT	continuous
CPT	carpet
CSWK	casework
CT	ceramic tile
CTB	ceramic tile base
D	
DEMO	demolition
DEPT	department
DF	drinking fountain
DFS	door and frame schedule
DIA	diameter
DR	door
DR FR	door frame
DTL	detail
DS	downspout
DW	dishwasher
DWG	drawing
E	
E	east
EIFS	exterior insulation & finish system
EL	elevation
EJ	expansion joint
ELEC	electric, electrical
ELEV	elevator
EPS	expanded polystyrene board
EQ	equal
EXIST	existing
EXP	expand, expansion
EXT	exterior
F	
F	female
F	filler
FA	fire alarm
FA	fluid applied
FAB	fabric
FAX	facsimile
FC	file cabinet
FD	floor drain
FEC	fire extinguisher cabinet
FHC	fire hose cabinet
FG	foot grille
FLR	floor
FM	factory mutual
FM	floor mat
FO	finished opening
FP	fire protection
FP	fireproof
FPL	fireplace
FT	feet, foot
FTG	footing
G	
GA	gauge
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass
GLT	glass tile
GLU LAM	glue laminated wood
GR	grade, grading
GT	grout
GYP BD	gypsum board
H	
HB	hose bibb
HC	hollow core
HCP	handicapped
HM	hollow metal
HORIZ	horizontal
HSKP	housekeeping
HGT	height
HVAC	heating,ventilating & air conditioning
HW	hot water
HWY	highway
I	
ID	inside diameter
INSUL	insulation
INT	interior
J	
JA	janitor sink
L	
LAM	laminate
LAV	lavatory
LL	live load
M	
MAX	maximum
MC	modular carpet tile
MECH	mechanical
MFR	manufacturer
MICRO	microwave oven
MIN	minimum
MIN	minute
MISC	miscellaneous
MO	masonry opening
MS	mop sink
MTL	metal
N	
N	north
NA	not applicable
NIC	not in contract
NO	number
NM	nominal
NS	no scale
NTS	not to scale
O	
OC	on center
OD	outside diameter
OF/CI	owner furnished, contractor installed
OF/OI	owner furnished, owner installed
OF/VI	owner furnished, vendor installed
OH DR	overhead (coiling) door
OPH	opposite hand
OPNG	opening
P	
PLYWD	plywood
PNL	panel
PREFAB	prefabricated
PREFIN	prefinished
PSI	pounds per square inch
PT	paint, painted
PTN	partition
Q	
QT	quarry tile
QTB	quarry tile base
R	
RB	resilient base
RCP	reflected ceiling plan
RD	roof drain
REBAR	reinforcing steel bars
REC	recess
REF	reference
REF	refrigerator
RF	resilient flooring
REV	revision
RFS	room finish schedule
RO	rough opening
RS	resinous flooring
RSB	resinous flooring base
S	
S	south
SAN	sanitary
SC	sealed concrete
SC	solid core
SF	square foot
SIM	similar
SS	solid surface
SST	stainless steel
ST	stain
ST	stair
STN	stone
STNB	stone base
STRUCT	structure
T	
T&M	time & materials
TEMP	temperature
TER	terrazzo
TERB	terrazzo base
TFF	top of finish floor
TKBD	tackboard
TO	top of
TOB	top of beam
TOC	top of concrete
TOJ	top of joist
TOPO	topography
TOS	top of slab
TOS	top of steel
TV	television
TYP	typical
U	
UNO	unless noted otherwise
V	
VEND	vending machine
VERT	vertical
VF/CI	vendor furnished, contractor installed
VF/OI	vendor furnished, owner installed
VF/VI	vendor furnished, vendor installed
VNR	veneer
VIF	verify in field
W	
W	west
W/	with
W/O	without
WC	water closet
WC	wall covering
WD	wood
WDB	wood base
WDV	wood veneer
WH	water heater
WP	wall protection
WP	workpoint
X	
XPS	extruded polystyrene board (insulated)

SYMBOL LEGEND

CALLOUTS



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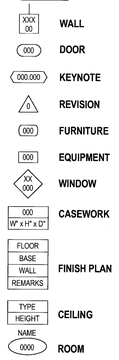
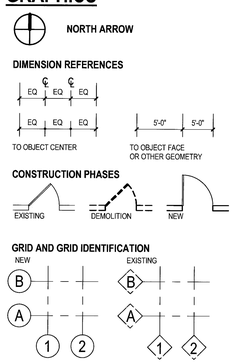


GRAPHICS



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SHEET INDEX

GENERAL
G000 SHEET INDEX

STRUCTURAL
S100 LOWER LEVEL PARKING PLAN
S100A LOWER LEVEL PARKING PLAN
S200 STRUCTURAL NOTES & DETAILS

ARCHITECTURAL
AD100 BASEMENT EXISTING CONDITIONS PLAN
AD101 LOWER LEVEL PARKING EXISTING CONDITIONS PLAN
A101 LOWER LEVEL STRIPING PLAN

PLUMBING
P-1 LOWER LEVEL PARKING PLUMBING PLAN
P-2 BASEMENT PLUMBING PLAN

ELECTRICAL
E100 LOWER LEVEL PARKING ELECTRICAL DEMOLITION PLAN SYMBOLS AND ABBREVIATIONS
E200 LOWER LEVEL PARKING ELECTRICAL PROPOSED PLAN
E300 ELECTRICAL DETAILS

CITY OF MILWAUKEE PROJECT NO. **BU110100901**

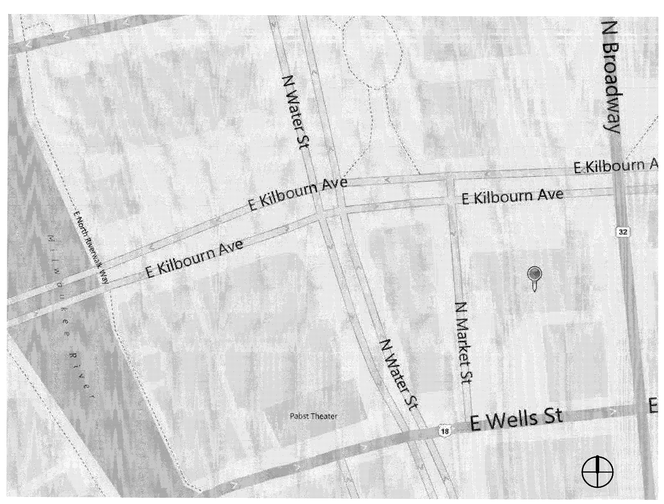
APPROVED:

SUPERVISER IN CHARGE 3.25.11

DIRECTOR 5-25-2011

COMMISSIONER OF PUBLIC WORKS 5-25-2011

VICINITY MAP



STAGING PLAN

SHADING SHOWS APPROXIMATE LIMITS OF STAGING AREA

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ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHADED AREAS ARE NOT IN CONTRACT

SHEET INFORMATION

PROJECT MANAGER	PEK
PROJECT NUMBER	310077-07
DATE	04/22/2011

SHEET INDEX

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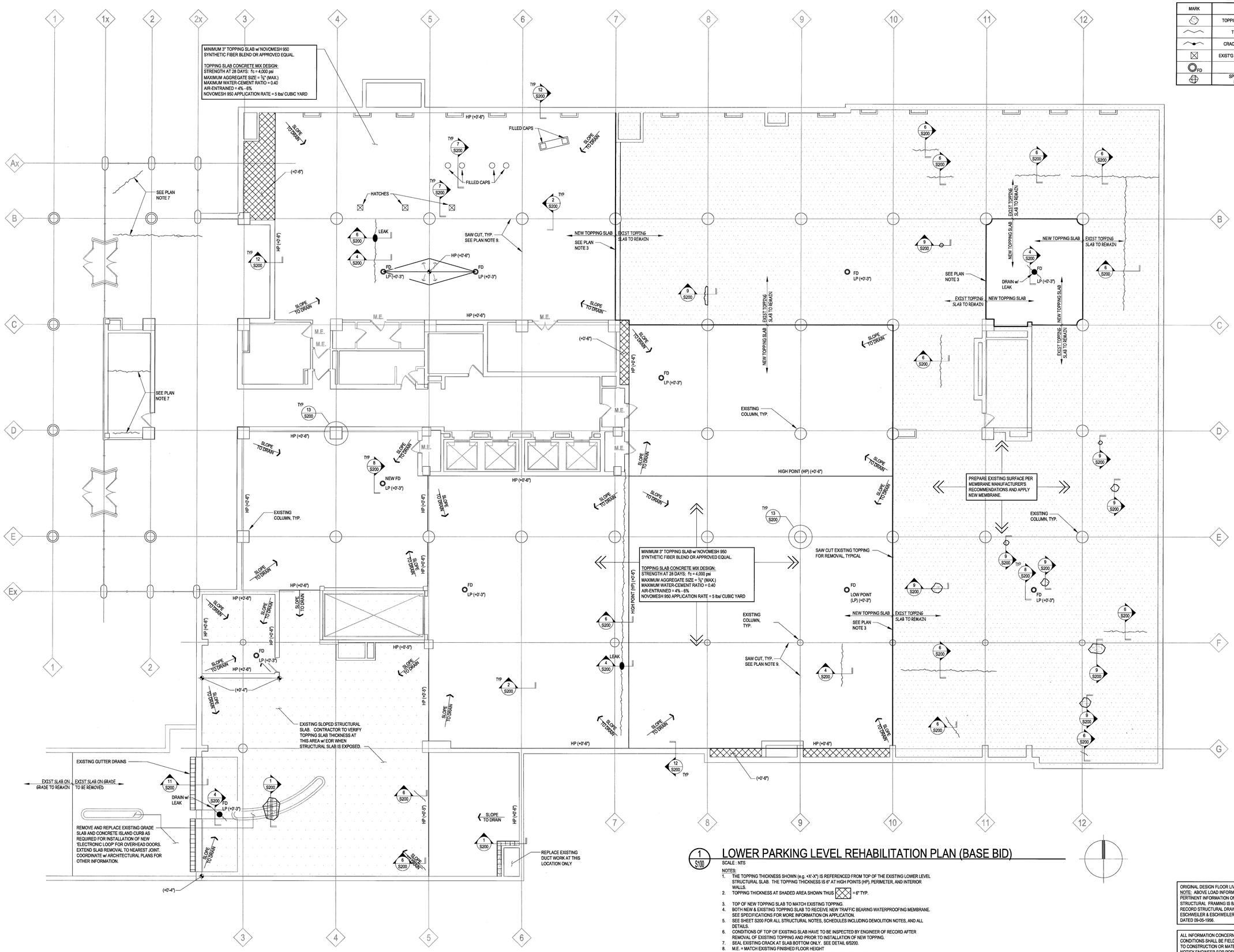

KEY

MARK	DESCRIPTION
	TOPPING DISINTEGRATION
	TOPPING CRACK
	CRACK WITH LEAK MARK
	EXIST'G FLOOR PENETRATION
FD	FLOOR DRAIN
	SPALL w/ EXPOSED REINFORCING

1 S100 LOWER PARKING LEVEL REHABILITATION PLAN (BASE BID)

SCALE : NTS

NOTES:

1. THE TOPPING THICKNESS SHOWN (e.g. +X'-X") IS REFERENCED FROM TOP OF THE EXISTING LOWER LEVEL STRUCTURAL SLAB. THE TOPPING THICKNESS IS 6" AT HIGH POINTS (HP), PERIMETER, AND INTERIOR WALLS.
2. TOPPING THICKNESS AT SHADED AREA SHOWN THUS = 6" TYP.
3. TOP OF NEW TOPPING SLAB TO MATCH EXISTING TOPPING.
4. BOTH NEW & EXISTING TOPPING SLAB TO RECEIVE NEW TRAFFIC BEARING WATERPROOFING MEMBRANE. SEE SPECIFICATIONS FOR MORE INFORMATION ON APPLICATION.
5. SEE SHEET S200 FOR ALL STRUCTURAL NOTES, SCHEDULES INCLUDING DEMOLITION NOTES, AND ALL DETAILS.
6. CONDITIONS OF TOP OF EXISTING SLAB HAVE TO BE INSPECTED BY ENGINEER OF RECORD AFTER REMOVAL OF EXISTING TOPPING AND PRIOR TO INSTALLATION OF NEW TOPPING.
7. SEAL EXISTING CRACK AT SLAB BOTTOM ONLY. SEE DETAIL 6/S200.
8. M.E. = MATCH EXISTING FINISHED FLOOR HEIGHT
9. TOPPING TO BE SAW CUT AT STRUCTURAL GRID LINES, SEE DETAIL 2/S200.

ORIGINAL DESIGN FLOOR LIVE LOAD = 150 psf
NOTE: ABOVE LOAD INFORMATION & OTHER PERTINENT INFORMATION ON EXISTING STRUCTURAL FRAMING IS BASED ON EXISTING RECORD STRUCTURAL DRAWINGS BY ESCHWEILER & ESCHWEILER ARCHITECTS DATED 09-05-1956.

ALL INFORMATION CONCERNING EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. NOTIFY ENGINEER FOR POSSIBLE REMEDIAL ACTION IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN HERE.

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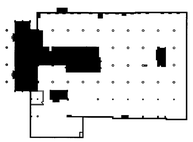

SHADED AREAS ARE NOT IN CONTRACT

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LOWER PARKING LEVEL PLAN

S100

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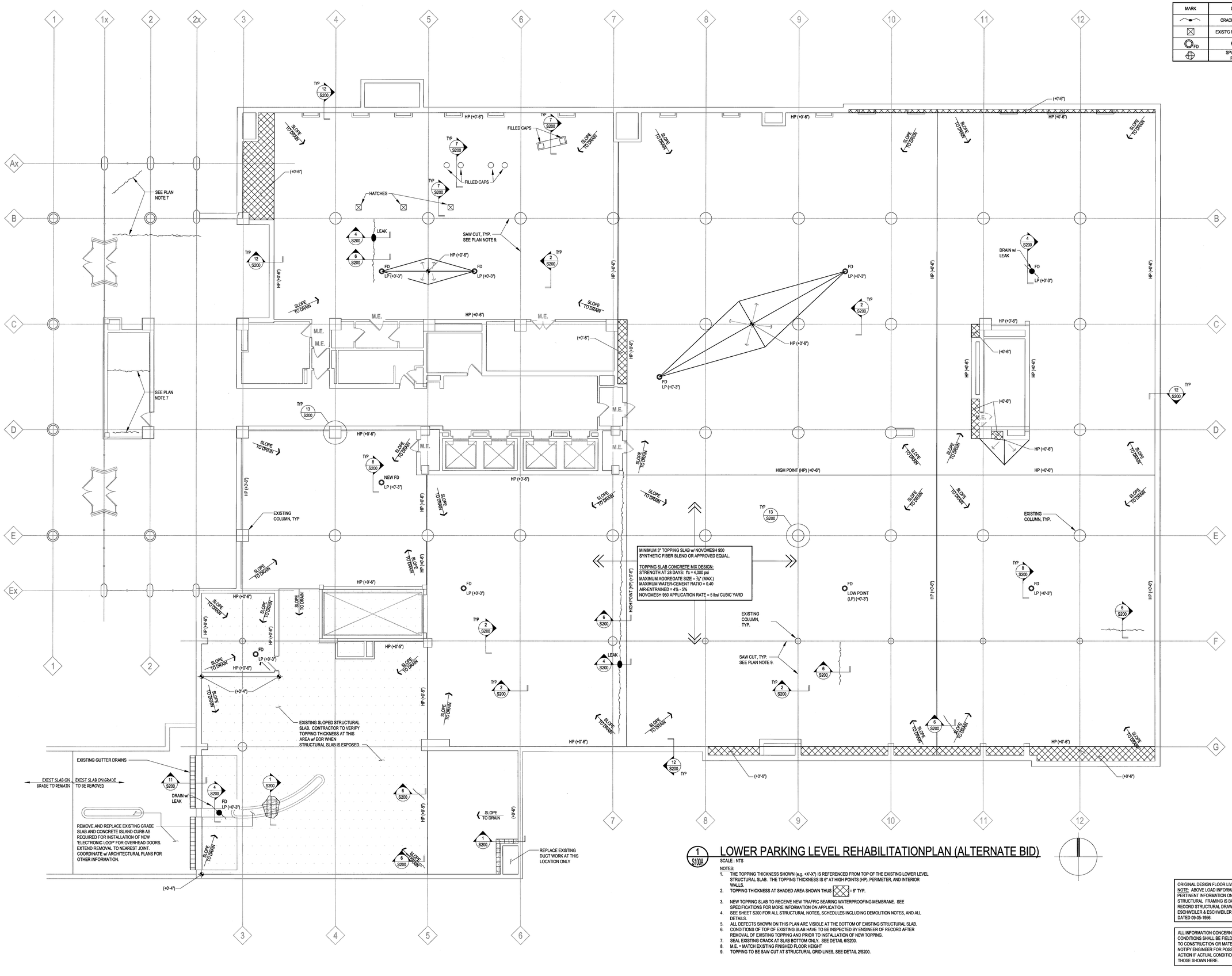

1 S100A LOWER PARKING LEVEL REHABILITATIONPLAN (ALTERNATE BID)

SCALE : NTS

NOTES:

1. THE TOPPING THICKNESS SHOWN (e.g. +X'-X") IS REFERENCED FROM TOP OF THE EXISTING LOWER LEVEL STRUCTURAL SLAB. THE TOPPING THICKNESS IS 6" AT HIGH POINTS (HP), PERIMETER, AND INTERIOR WALLS.
2. TOPPING THICKNESS AT SHADED AREA SHOWN THUS = 6" TYP.
3. NEW TOPPING SLAB TO RECEIVE NEW TRAFFIC BEARING WATERPROOFING MEMBRANE. SEE SPECIFICATIONS FOR MORE INFORMATION ON APPLICATION.
4. SEE SHEET S200 FOR ALL STRUCTURAL NOTES, SCHEDULES INCLUDING DEMOLITION NOTES, AND ALL DETAILS.
5. ALL DEFECTS SHOWN ON THIS PLAN ARE VISIBLE AT THE BOTTOM OF EXISTING STRUCTURAL SLAB.
6. CONDITIONS OF TOP OF EXISTING SLAB HAVE TO BE INSPECTED BY ENGINEER OF RECORD AFTER REMOVAL OF EXISTING TOPPING AND PRIOR TO INSTALLATION OF NEW TOPPING.
7. SEAL EXISTING CRACK AT SLAB BOTTOM ONLY. SEE DETAIL 6/S200.
8. M.E. = MATCH EXISTING FINISHED FLOOR HEIGHT
9. TOPPING TO BE SAW CUT AT STRUCTURAL GRID LINES, SEE DETAIL 2/S200.

ORIGINAL DESIGN FLOOR LIVE LOAD = 150 psf
NOTE: ABOVE LOAD INFORMATION & OTHER PERTINENT INFORMATION ON EXISTING STRUCTURAL FRAMING IS BASED ON EXISTING RECORD STRUCTURAL DRAWINGS BY ESCHWEILER & ESCHWEILER ARCHITECTS DATED 09-05-1956.

ALL INFORMATION CONCERNING EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. NOTIFY ENGINEER FOR POSSIBLE REMEDIAL ACTION IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN HERE.

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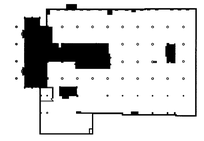

SHEET INFORMATION

PROJECT MANAGER	PEK
PROJECT NUMBER	310077-07
DATE	04/22/2011

LOWER PARKING LEVEL PLAN

S100A

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GENERAL REPAIR NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH THE ARCHITECTURAL PLANS AND THE OWNER FOR THE PURPOSE OF USE OF THE PARKING STRUCTURE.
2. CONTRACTOR TO SHORE ALL CONSTRUCTION AS REQUIRED TO SAFELY PERFORM ALL WORK.
3. WHERE ENGINEER OF RECORD (EOR) INDICATES REPAIRS ARE NEEDED, PERFORM REPAIRS USING DETAILS PROVIDED ON THE DRAWINGS.
4. ALL REPAIR MATERIALS AND METHODS MUST BE APPROVED BY EOR PRIOR TO USING IN REPAIR WORK.
5. CONTRACTOR MUST NOTIFY EOR IMMEDIATELY IF ANY ITEMS UNCOVERED DURING CONSTRUCTION REPRESENT POTENTIAL STRUCTURAL CONCERNS.
6. CONTRACTOR SHALL REMOVE ALL LOOSE CONCRETE OR OTHER MATERIALS FROM THE STRUCTURE TO REDUCE RISK OF INJURY TO OCCUPANTS.
7. CONTRACTOR IS RESPONSIBLE TO CLEAN THE AREA OF WORK AFTER THE COMPLETION OF ALL REPAIR WORK.

DEMOLITION NOTES

1. INSTALL DUST PARTITION AS NEEDED PRIOR TO COMMENCING ANY DEMOLITION WORK.
2. REMOVE EXISTING TOPPING SLAB AND MEMBRANE IN A FASHION WHICH DOES NOT DAMAGE EXISTING STRUCTURAL SLAB BELOW, AND WHICH TAKES INTO ACCOUNT THAT THE SPACE BELOW WILL REMAIN OCCUPIED DURING CONSTRUCTION. IF SAW CUT IS USED, THE DEPTH OF SAW CUT SHALL NOT BE MORE THAN 2½" AND WET CUTTING IS NOT PERMISSIBLE.
3. ANY DAMAGE DONE TO EXISTING STRUCTURE DURING THE DEMOLITION SHOULD BE REPAIRED BY CONTRACTOR WITHOUT CHARGING TO OWNER.

MATERIAL DESIGN PROPERTIES

CONCRETE STRENGTHS:
- SLAB (PATCH AND INFILL) — f'c = 4000 psi
- TOPPING SLAB — f'c = 4000 psi

REINFORCING STEEL STRENGTHS:
- BARS (ASTM A 615, grade 60) — Fy = 60,000 psi
- WWF (ASTM A 185) — Fy = 65,000 psi

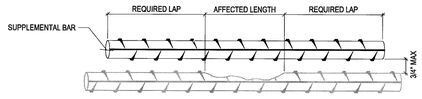
STANDARD ABBREVIATIONS

ABBREVIATION	WORD OR PHRASE
CJ	CONSTRUCTION JOINT
CONC	CONCRETE
e.g.	FOR EXAMPLE
EMBED	EMBEDMENT
EOR	ENGINEER OF RECORD
EXIST	EXISTING
H.P.	HIGH POINT
LF	LINEAR FOOT
L.P.	LOW POINT
L.S.	LUMP SUM
N/S	NORTH-SOUTH
NTS	NOT TO SCALE
REINF	REINFORCING
SF	SQUARE FOOT
TYP	TYPICAL
w/	WITH

RECOMMENDED REPAIR SEQUENCING

THE FOLLOWING RECOMMENDED REPAIR SEQUENCE ASSUMES PRECAUTIONS FOR THE AREA BELOW, INCLUDING SHORING AND PROTECTION OF FURNITURE AND FINISHES, HAVE ALREADY BEEN TAKEN.

1. CLEAN EXISTING SLAB IN PREPARATION FOR REVIEW BY ENGINEER OF RECORD (EOR).
2. PERFORM INDICATED REPAIRS USING DETAILS PROVIDED ON THE DRAWINGS. COORDINATE LOCATION AND TYPE OF REPAIR WITH EOR.
3. PREPARE SLAB SURFACE FOR PLACEMENT OF NEW TOPPING SLAB. CLEAN THE EXISTING SURFACE SUCH THAT IT IS FREE OF LOOSE MATERIAL, DUST, DIRT, GREASE, OR OTHER MATERIAL THAT MAY BE DETRIMENTAL TO ATTAINMENT OF PROPER BOND.
4. PROVIDE A SATURATED SURFACE DRY CONDITION PRIOR TO PLACEMENT OF NEW CONCRETE. AFTER MOST FREE WATER HAS EVAPORATED OR HAS BEEN REMOVED FROM THE SURFACE, A BONDING GROUT SHOULD BE SCRUBBED IN. THE BONDING GROUT SHOULD BE COMPOSED OF ONE PART CEMENT, 1.5 PARTS FINE SAND PASSING THE NO. 8 SIEVE (2.36 mm), AND SUFFICIENT WATER TO ACHIEVE THE CONSISTENCY OF THICK PAINT. THE GROUT SHOULD BE APPLIED TO THE FLOOR IN SEGMENTS, KEEPING ONLY A SHORT DISTANCE AHEAD OF THE CONCRETE TOPPING PLACING OPERATIONS THAT FOLLOW IT.
5. WHILE BONDING GROUT IS STILL TACKY, PLACE NEW CONCRETE IN THICKNESS AS NOTED ON PLAN. CONCRETE MIX INFORMATION IS PROVIDED ON THE PLAN. IT IS DESIRED TO ATTAIN A HIGHLY DURABLE SURFACE. ALTERNATE MIX DESIGNS PROPOSED BY THE SUCCESSFUL BIDDER WILL BE CONSIDERED BY THE EOR.
6. MINIMIZE FINISH WORKING OF THE CONCRETE. A HARD, HAND-TROWELED FINISH SHALL BE AVOIDED.
7. PROVIDE CONTROL JOINTS AS INDICATED ON PLANS.
8. CURE CONCRETE USING ONE OF THE TECHNIQUES DESCRIBED IN THE SPECIFICATIONS. SUBMIT PLAN FOR CURING CONCRETE PRIOR TO THE ONSET OF WORK. CURING TECHNIQUES SHALL BE COMPATIBLE WITH TRAFFIC BEARING MEMBRANE.
9. FILL JOINTS WITH APPROVED SEALANT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
10. APPLY APPROVED MEMBRANE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS
11. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



NOTE:
SUPPLEMENTAL BAR SIZE & REQUIRED LAP SHALL BE DETERMINED BY ENGINEER ON A CASE - SPECIFIC BASIS

DETAIL OF SUPPLEMENTAL REINFORCING

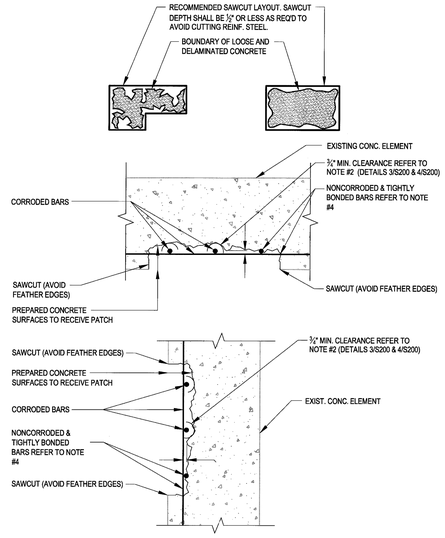
SCALE : N.T.S.

CONCRETE REINFORCING SPLICE LENGTH TABLE

CONCRETE REINFORCING SPLICE LENGTH TABLE PER ACI 318-05 - (INCHES)

REBAR SIZE [5]	CONCRETE MEMBER								
	FTG [1]	GRADE BEAM [4] (TOP)	GRADE BEAM [4] (BOTTOM)	WALL [4] HORIZ	WALL [4] VERT	SLAB [4]	BEAM [4] (TOP)	BEAM [4] (BOTT)	COLUMN [2]
#3	21	24	18	18	18	18	24	18	12
#4	29	32	25	25	25	25	32	25	15
#5	36	40	31	31	31	31	40	31	19
#6	43	48	37	37	37	37	48	37	23
#7	62	70	54	54	54	54	70	54	26
#8	71	80	62	62	62	62	80	62	30
#9	80	90	70	70	70	70	90	70	34
#10	89	100	77	77	77	77	100	77	38
#11	98	110	85	85	85	85	110	85	41
#14	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	53
#18	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	68

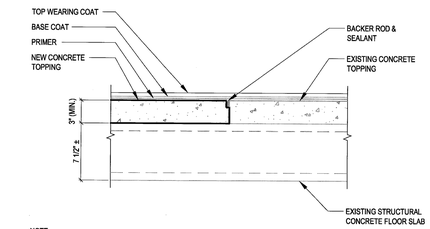
CONCRETE REINF. SPLICE LENGTH TABLE NOTES:
1. GENERALLY NOT PERMITTED
2. FOR COMPRESSION LAPS ONLY, Fy ≤ 60,000 PSI, F'c ≥ 3,000 PSI
3. F'c = 3,000 PSI
4. F'c = 4,000 PSI
5. ALL REINFORCEMENT ASSUMED UNCOATED.



NOTES:
1. THE REPAIR NOTES NOTED BELOW REPRESENT GENERAL REPAIR METHODS AND NOTES CORRESPONDING TO SPECIFIC DETAILS SHOULD ALSO BE FOLLOWED.
2. SHORE MEMBERS OF QUESTIONABLE INTEGRITY PRIOR TO BEGINNING REPAIRS.
3. REMOVE LOOSE OR DELAMINATED CONCRETE FROM AROUND CORRODED REINFORCING STEEL. ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED CORRODED BARS. UNDERCUTTING WILL PROVIDE CLEARANCE FOR UNDER BAR CLEANING, FULL BAR CIRCUMFERENCE BONDING TO SURROUNDING CONCRETE, AND WILL SECURE THE PATCH STRUCTURALLY.
4. PROVIDE MINIMUM ¾" CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE OR ¾" LARGER THAN LARGEST AGGREGATE IN REPAIR MORTAR, WHICH EVER IS GREATER.
5. CONCRETE REMOVAL SHALL EXTEND ALONG THE BARS TO LOCATIONS ALONG THE BAR FREE OF BOND INHIBITING CORROSION, WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE. REMOVE CONCRETE IN A MANNER THAT ALLOWS PLACEMENT OF REPAIR MATERIAL IN A RELATIVELY UNIFORM THICKNESS.
6. IF NONCORRODED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
7. ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY OTHER APPROVED METHODS. IF REINFORCEMENT IS NOT PRESENT WITHIN THE DEPTH OF THE PREPARED SUBSTRATE, PROVIDE 4x4 W1.4xW1.4 MESH FIRMLY ANCHORED TO THE SUBSTRATE. MESH SHOULD BE LOCATED ⅔" TO 1" FROM THE FINISHED SURFACE.
8. CLEAN CORRODED REINF. TO REMOVE ALL HEAVY CORROSION. IF REINF. HAS LOST SIGNIFICANT SECTION (> 15%). PROVIDE SUPPLEMENTAL REINFORCING AS SHOWN IN DETAILS.
9. CONCRETE REPAIR MATERIAL SHALL BE APPLIED UTILIZING TROWELING, SPRAYING, OR FORM & PUMP METHOD. REPAIR MATERIAL SPECIFICATION SHALL BE SUBMITTED TO ENGINEER OF RECORD (EOR) FOR APPROVAL PRIOR TO APPLICATION.
10. APPLICATION SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND SHALL INCLUDE THE USE OF A BONDING AGENT ONLY WITH PRIOR APPROVAL BY EOR. PRESOAKING THE PREPARED SURFACE TO PROVIDE A SATURATED SURFACE DRY CONDITION IS RECOMMENDED OVER A BONDING AGENT.
11. MOIST CURE FOR 7 DAYS, OR PROVIDE A CURING COMPOUND THAT COMPLIES WITH THE MOISTURE RETENTION REQUIREMENTS OF ASTM C309.

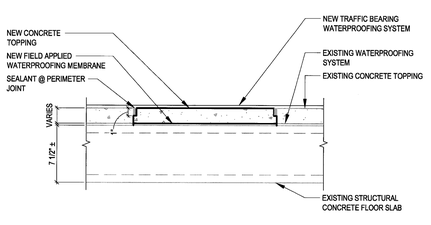
EXISTING CONCRETE REPAIR DETAIL: GENERAL

SCALE : N.T.S.



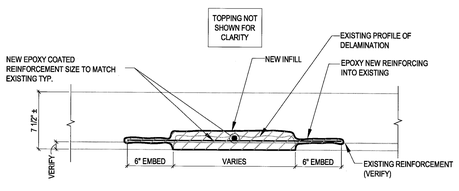
NOTE:
1. IF THE JOINT IS NOT STATIONARY, A FIBER MESH BY 'SONNEBORN' COMPANY (e.g. SONNEGUARD) CAN BE USED OVER JOINT.
2. PREPARE THE TOP OF EXISTING & NEW TOPPING FOR INSTALLATION OF NEW TRAFFIC BEARING WATERPROOFING SYSTEM. FOLLOW MANUFACTURER'S RECOMMENDATIONS CAREFULLY.

10 S200 — TRAFFIC BEARING WATERPROOFING MEMBRANE DETAIL AT NEW & OLD TOPPING
SCALE : NTS



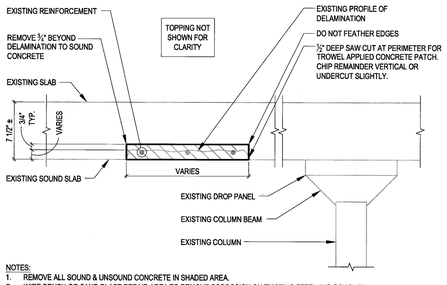
NOTES:
1. REMOVE EXISTING DISREPAIR TOPPING SLAB & WATERPROOFING WITHOUT DAMAGING EXISTING STRUCTURAL SLAB.
2. CLEAN THE EXPOSED SURFACE OF EXISTING STRUCTURAL SLAB FOR ALL LOOSE DIRT AND GREASE. PREPARE SURFACE FOR INSTALLATION OF NEW FIELD APPLIED WATERPROOFING MEMBRANE.
3. PREPARE THE TOP OF EXISTING & NEW INFILL TOPPING FOR INSTALLATION OF NEW TRAFFIC BEARING WATERPROOFING SYSTEM. FOLLOW MANUFACTURER'S RECOMMENDATIONS CAREFULLY.

9 S200 — EXISTING TOPPING SLAB REPAIR DETAIL
SCALE : NTS



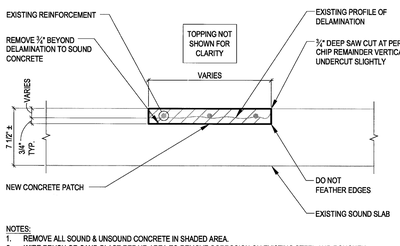
NOTES:
1. REMOVE ALL SOUND & UNSOUND CONCRETE IN SHADED AREA.
2. WIRE BRUSH OR SAND BLAST REPAIR AREA TO REMOVE CORROSION ON EXISTING STEEL AND ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4".
3. COAT EXISTING STEEL w/ ZINC RICH PRIMER AND REPAIR.
4. MAKE SURE NO NEW CRACKS ARE INDUCED IN REMAINING SOUND CONCRETE DURING CONCRETE REMOVAL.
5. CLEAN THE EXISTING SURFACE TO MAKE IT FREE OF LOOSE MATERIALS, DUST, GREASE, DIRT OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE BOND.
6. PROVIDE A SATURATED SURFACE DRY CONDITION PRIOR TO PLACING REPAIR MORTAR.
7. APPLY NEW SHRINKAGE COMPENSATING REPAIR MORTAR (e.g. SIKAQUICK 1000 OR APPROVED EQUAL).
8. THE NEW PATCH SHALL BE TROWEL APPLIED OR SHOTCRETE.
9. PROVIDE NEW EPOXY COATED REINFORCEMENT IN EACH DIRECTION ONLY IF SECTION LOSS IS EQUAL OR MORE THAN 15%

5 S200 — NEW REINFORCEMENT AT SLAB - REPAIR
SCALE : NTS



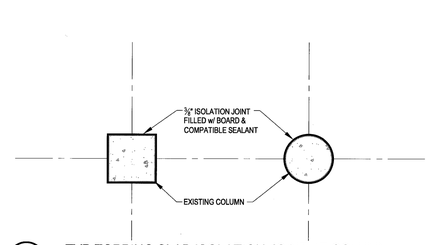
NOTES:
1. REMOVE ALL SOUND & UNSOUND CONCRETE IN SHADED AREA.
2. WIRE BRUSH OR SAND BLAST REPAIR AREA TO REMOVE CORROSION ON EXISTING STEEL AND ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4".
3. COAT EXISTING STEEL w/ ZINC RICH PRIMER AND REPAIR.
4. MAKE SURE NO NEW CRACKS ARE INDUCED IN REMAINING SOUND CONCRETE DURING CONCRETE REMOVAL.
5. CLEAN THE EXISTING SURFACE TO MAKE IT FREE OF LOOSE MATERIALS, DUST, GREASE, DIRT OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE BOND.
6. PROVIDE A SATURATED SURFACE DRY CONDITION PRIOR TO PLACING REPAIR MORTAR.
7. APPLY NEW SHRINKAGE COMPENSATING REPAIR MORTAR (e.g. SIKAQUICK 1000 OR APPROVED EQUAL).
8. SEE DETAIL 5/S200 IF SECTION LOSS IN EXISTING REINFORCEMENT IS MORE THAN 15%.
9. THE NEW PATCH SHALL BE TROWEL APPLIED.

4 S200 — PARTIAL DEPTH SLAB REPAIR (BOTTOM SURFACE)
SCALE : NTS

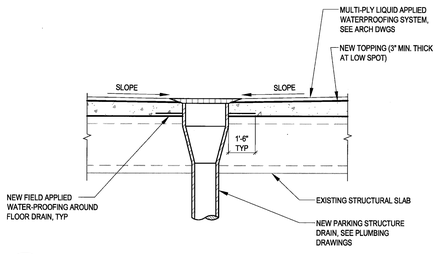


NOTES:
1. REMOVE ALL SOUND & UNSOUND CONCRETE IN SHADED AREA.
2. WIRE BRUSH OR SAND BLAST REPAIR AREA TO REMOVE CORROSION ON EXISTING STEEL AND ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4".
3. COAT EXISTING STEEL w/ ZINC RICH PRIMER AND REPAIR.
4. MAKE SURE NO NEW CRACKS ARE INDUCED IN REMAINING SOUND CONCRETE DURING CONCRETE REMOVAL.
5. CLEAN THE EXISTING SURFACE TO MAKE IT FREE OF LOOSE MATERIALS, DUST, GREASE, DIRT OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE BOND.
6. PROVIDE A SATURATED SURFACE DRY CONDITION PRIOR TO PLACING REPAIR MORTAR.
7. APPLY NEW SHRINKAGE COMPENSATING REPAIR MORTAR (e.g. SIKAQUICK 1000 OR APPROVED EQUAL).
8. SEE DETAIL 5/S200 IF SECTION LOSS IN EXISTING REINFORCEMENT IS MORE THAN 15%.

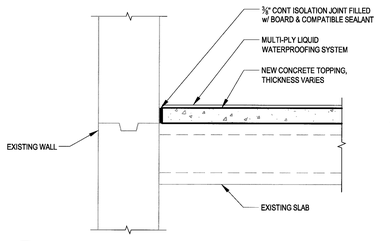
3 S200 — PARTIAL DEPTH SLAB REPAIR (TOP SURFACE)
SCALE : NTS



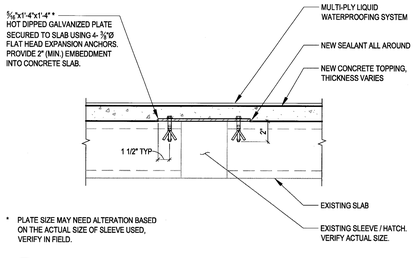
13 S200 — TYP TOPPING SLAB ISOLATION JOINT AT COLUMN
SCALE : NTS



8 S200 — NEW FLOOR DRAIN
SCALE : NTS

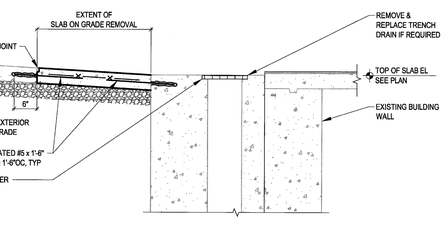


12 S200 — TYP TOPPING SLAB ISOLATION JOINT AT WALL
SCALE : NTS

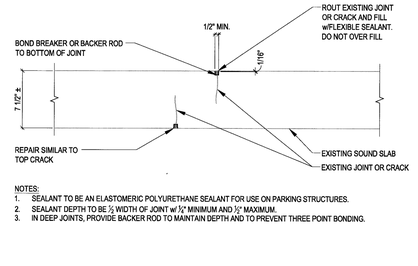


* PLATE SIZE MAY NEED ALTERATION BASED ON THE ACTUAL SIZE OF SLEEVE USED, VERIFY IN FIELD.

7 S200 — EXISTING SLEEVE / HATCH INFILL DETAIL
SCALE : NTS

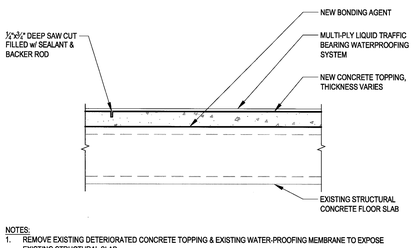


11 S200 — SLAB ON GRADE REMOVAL AT GUTTER DRAINS
SCALE : NTS



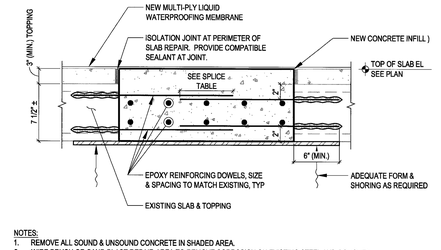
NOTES:
1. SEALANT TO BE AN ELASTOMERIC POLYURETHANE SEALANT FOR USE ON PARKING STRUCTURES.
2. SEALANT DEPTH TO BE ½ WIDTH OF JOINT w/ ¼" MINIMUM AND ½" MAXIMUM.
3. IN DEEP JOINTS, PROVIDE BACKER ROD TO MAINTAIN DEPTH AND TO PREVENT THREE POINT BONDING.

6 S200 — SEALING EXISTING JOINT/CRACK
SCALE : NTS



NOTES:
1. REMOVE EXISTING DETERIORATED CONCRETE TOPPING & EXISTING WATER-PROOFING MEMBRANE TO EXPOSE EXISTING STRUCTURAL SLAB.
2. CLEAN & PREPARE THE TOP SURFACE OF EXISTING STRUCTURAL SLAB FOR INSTALLATION OF NEW CONCRETE TOPPING.
3. APPLY UNIFORMLY NEW BONDING GROUT ON THE TOP SURFACE OF EXISTING STRUCTURAL SLAB. FOLLOW ALL RECOMMENDATIONS PER MANUFACTURER'S SPECIFICATIONS.
4. APPLY CONCRETE TOPPING.
5. APPLY NEW WATER-PROOFING SYSTEM (MULTI-PLY LIQUID & POLY-URETHANE BASED) ON TOP OF NEW CONCRETE TOPPING. FOLLOW CAREFULLY ALL RECOMMENDATIONS & INSTALLATION PROCEDURES PER MANUFACTURER'S SPECIFICATIONS.

2 S200 — NEW TOPPING & WATERPROOFING SYSTEM AT EXISTING PARKING DECK
SCALE : NTS



NOTES:
1. REMOVE ALL SOUND & UNSOUND CONCRETE IN SHADED AREA.
2. WIRE BRUSH OR SAND BLAST REPAIR AREA TO REMOVE CORROSION ON EXISTING STEEL AND ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4".
3. COAT EXISTING STEEL w/ ZINC RICH PRIMER AND REPAIR .
4. MAKE SURE NO NEW CRACKS ARE INDUCED IN REMAINING SOUND CONCRETE DURING CONCRETE REMOVAL.
5. CLEAN THE EXISTING SURFACE TO MAKE IT FREE OF LOOSE MATERIALS, DUST, GREASE, DIRT OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE BOND.
6. PROVIDE A SATURATED SURFACE DRY CONDITION PRIOR TO PLACING REPAIR MORTAR.
7. APPLY NEW AIR-ENTRAINED, SHRINKAGE COMPENSATING CONCRETE (f'c = 4,000 PSI) OR REPAIR MORTAR SUITABLE FOR FULL DEPTH REPAIR (e.g. SIKAQUICK 1000 OR APPROVED EQUAL).
8. SEE DETAIL 5/S200 IF SECTION LOSS IN EXISTING REINFORCEMENT IS MORE THAN 15%.
9. PROVIDE NEW EPOXY COATED REINFORCEMENT IN EACH DIRECTION ONLY IF SECTION LOSS IS EQUAL OR MORE THAN 15%.
10. PROVIDE FORM & SHORING AS REQUIRED.

1 S200 — FULL DEPTH SLAB REPAIR DETAIL
SCALE : NTS

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PIERCE ENGINEERS, Inc.
241 North Broadway, Suite 500 Milwaukee, WI 53202 414.278.6060 414.278.6061 fax PE Project 10309

PROJECT INFORMATION

ZEIDLER MUNICIPAL BUILDING - LOWER LEVEL PARKING RESTORATION

841 North Broadway
Milwaukee, WI. 53202

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	PEK
PROJECT NUMBER	310077-07
DATE	04/22/2011

STRUCTURAL NOTES & DETAILS

S200

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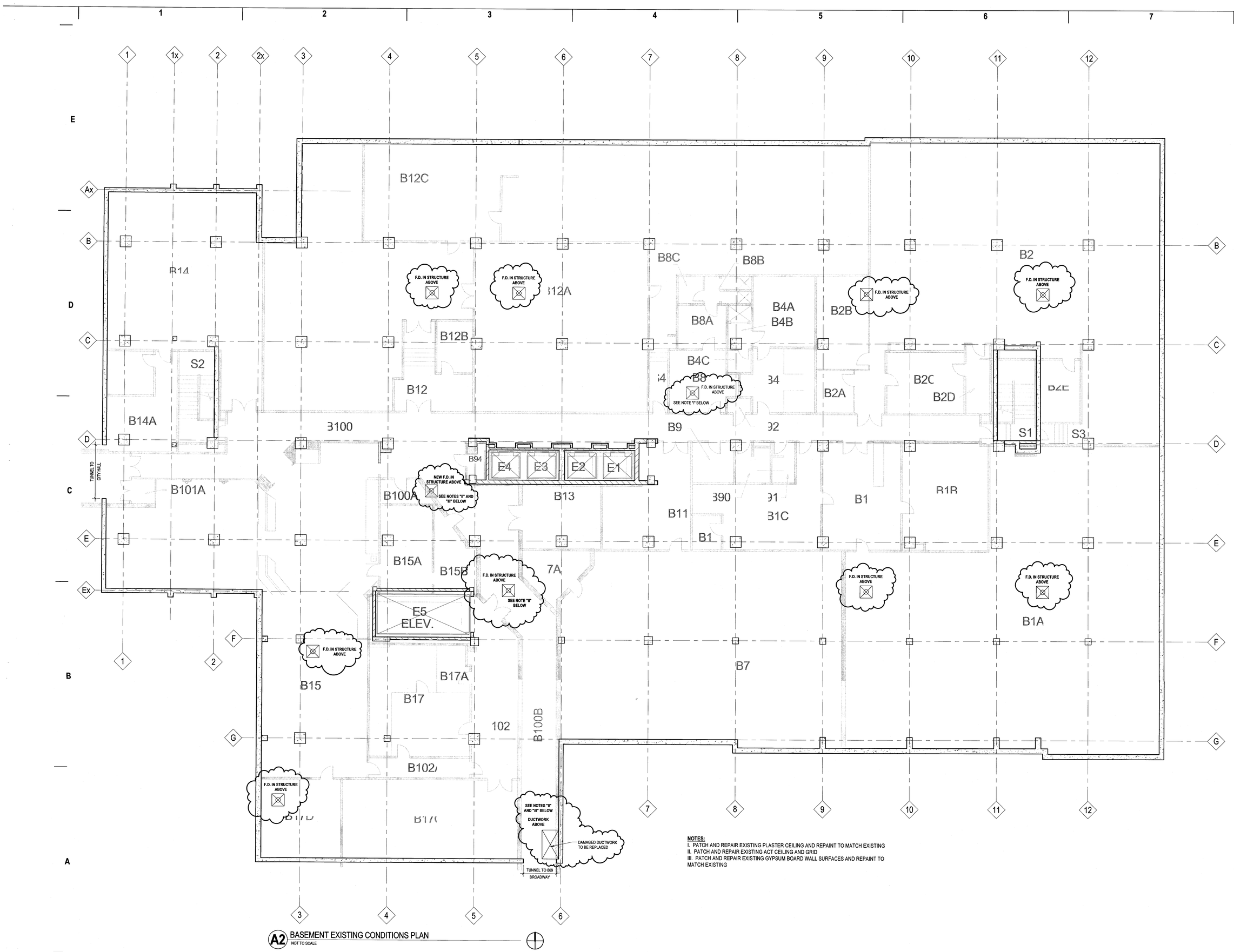

NOTES:
I. PATCH AND REPAIR EXISTING PLASTER CEILING AND REPAINT TO MATCH EXISTING
II. PATCH AND REPAIR EXISTING ACT CEILING AND GRID
III. PATCH AND REPAIR EXISTING GYPSUM BOARD WALL SURFACES AND REPAINT TO MATCH EXISTING

A2 BASEMENT EXISTING CONDITIONS PLAN
NOT TO SCALE

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Milwaukee, WI. 53202

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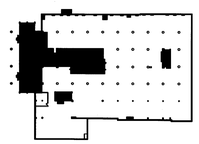
REVISIONS

#	DATE	DESCRIPTION
1	Date 1	Revision 1

KEY PLAN



SHADED AREAS ARE NOT IN CONTRACT

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PROJECT NUMBER	310077-07
DATE	04/22/2011

BASEMENT EXISTING CONDITIONS PLAN

AD100

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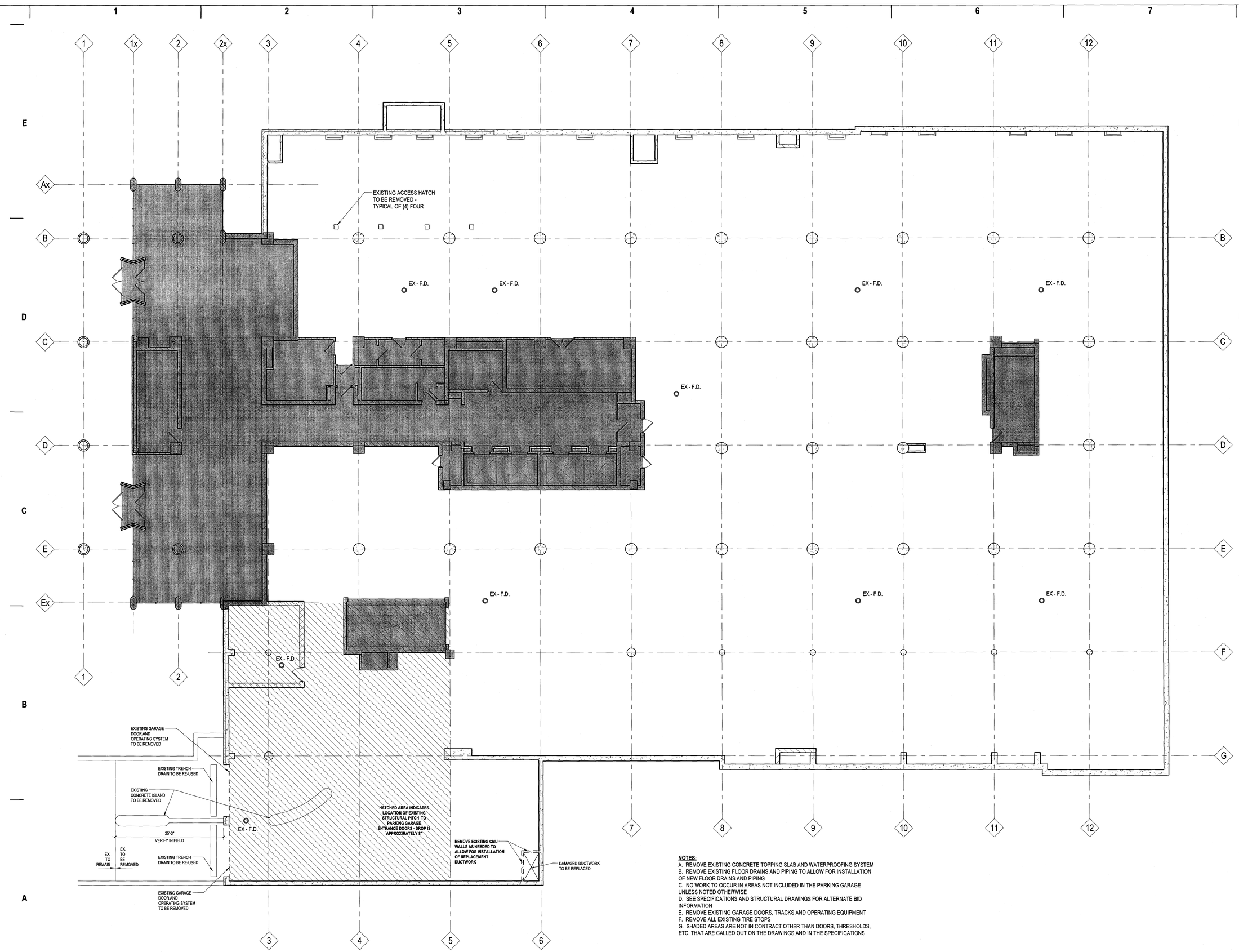

A2 LOWER LEVEL PARKING EXISTING CONDITIONS PLAN
1/8" = 1'-0"

NOTES:

A. REMOVE EXISTING CONCRETE TOPPING SLAB AND WATERPROOFING SYSTEM
B. REMOVE EXISTING FLOOR DRAINS AND PIPING TO ALLOW FOR INSTALLATION OF NEW FLOOR DRAINS AND PIPING
C. NO WORK TO OCCUR IN AREAS NOT INCLUDED IN THE PARKING GARAGE UNLESS NOTED OTHERWISE
D. SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR ALTERNATE BID INFORMATION
E. REMOVE EXISTING GARAGE DOORS, TRACKS AND OPERATING EQUIPMENT
F. REMOVE ALL EXISTING TIRE STOPS
G. SHADED AREAS ARE NOT IN CONTRACT OTHER THAN DOORS, THRESHOLDS, ETC. THAT ARE CALLED OUT ON THE DRAWINGS AND IN THE SPECIFICATIONS

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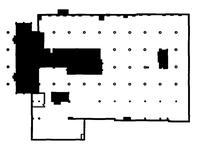

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PROJECT NUMBER	310077-07
DATE	04/22/2011

LOWER LEVEL PARKING EXISTING CONDITIONS PLAN

AD101

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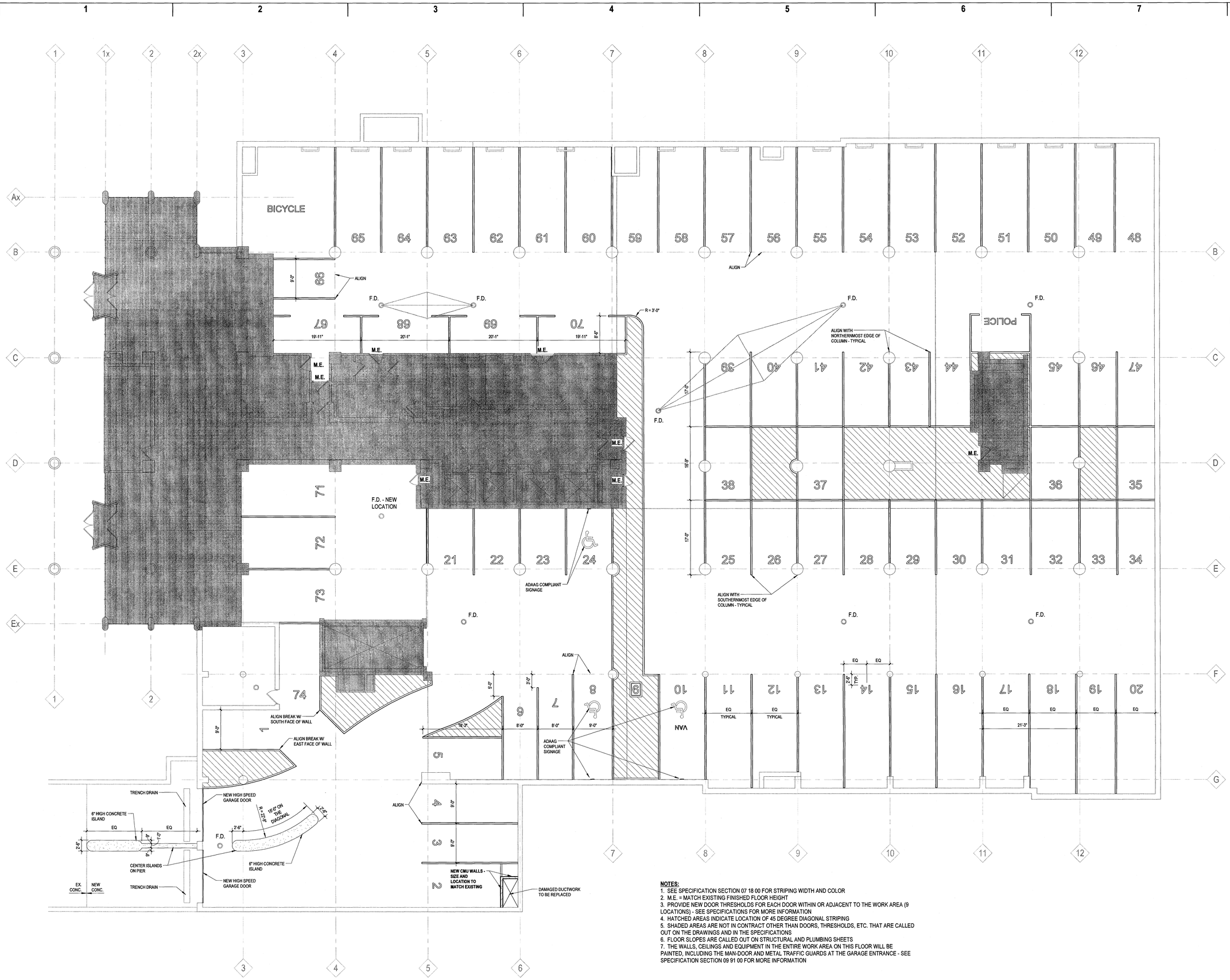

A2 LOWER LEVEL STRIPING PLAN
1/8" = 1'-0"

NOTES:

1. SEE SPECIFICATION SECTION 07 18 00 FOR STRIPING WIDTH AND COLOR
2. M.E. = MATCH EXISTING FINISHED FLOOR HEIGHT
3. PROVIDE NEW DOOR THRESHOLDS FOR EACH DOOR WITHIN OR ADJACENT TO THE WORK AREA (9 LOCATIONS) - SEE SPECIFICATIONS FOR MORE INFORMATION
4. HATCHED AREAS INDICATE LOCATION OF 45 DEGREE DIAGONAL STRIPING
5. SHADED AREAS ARE NOT IN CONTRACT OTHER THAN DOORS, THRESHOLDS, ETC. THAT ARE CALLED OUT ON THE DRAWINGS AND IN THE SPECIFICATIONS
6. FLOOR SLOPES ARE CALLED OUT ON STRUCTURAL AND PLUMBING SHEETS
7. THE WALLS, CEILINGS AND EQUIPMENT IN THE ENTIRE WORK AREA ON THIS FLOOR WILL BE PAINTED, INCLUDING THE MAN-DOOR AND METAL TRAFFIC GUARDS AT THE GARAGE ENTRANCE - SEE SPECIFICATION SECTION 09 91 00 FOR MORE INFORMATION

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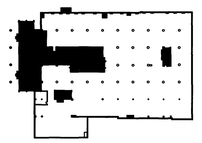

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LOWER LEVEL STRIPING PLAN

A101

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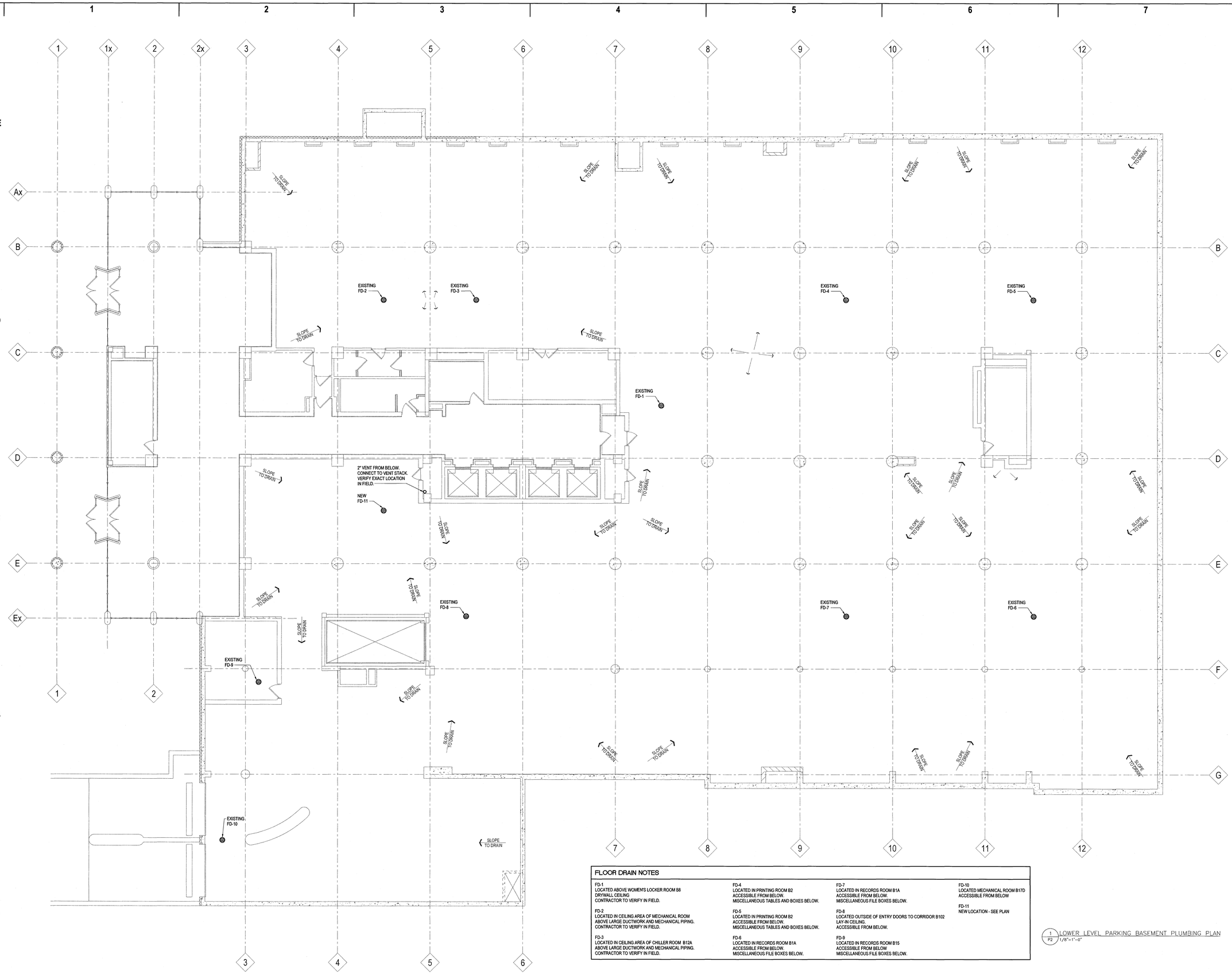

FLOOR DRAIN NOTES

FD-1
LOCATED ABOVE WOMEN'S LOCKER ROOM B8
DRYWALL CEILING.
CONTRACTOR TO VERIFY IN FIELD.

FD-2
LOCATED IN CEILING AREA OF MECHANICAL ROOM
ABOVE LARGE DUCTWORK AND MECHANICAL PIPING.
CONTRACTOR TO VERIFY IN FIELD.

FD-3
LOCATED IN CEILING AREA OF CHILLER ROOM B12A
ABOVE LARGE DUCTWORK AND MECHANICAL PIPING.
CONTRACTOR TO VERIFY IN FIELD.

FD-4
LOCATED IN PRINTING ROOM B2
ACCESSIBLE FROM BELOW.
MISCELLANEOUS TABLES AND BOXES BELOW.

FD-5
LOCATED IN PRINTING ROOM B2
ACCESSIBLE FROM BELOW.
MISCELLANEOUS TABLES AND BOXES BELOW.

FD-6
LOCATED IN RECORDS ROOM B1A
ACCESSIBLE FROM BELOW.
MISCELLANEOUS FILE BOXES BELOW.

FD-7
LOCATED IN RECORDS ROOM B1A
ACCESSIBLE FROM BELOW.
MISCELLANEOUS FILE BOXES BELOW.

FD-8
LOCATED OUTSIDE OF ENTRY DOORS TO CORRIDOR B102
LAY-IN CEILING.
ACCESSIBLE FROM BELOW.

FD-9
LOCATED IN RECORDS ROOM B15
ACCESSIBLE FROM BELOW
MISCELLANEOUS FILE BOXES BELOW.

FD-10
LOCATED MECHANICAL ROOM B17D
ACCESSIBLE FROM BELOW

FD-11
NEW LOCATION - SEE PLAN

1/P2 LOWER LEVEL PARKING BASEMENT PLUMBING PLAN
1/8"=1'-0"

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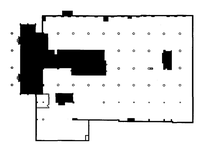

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DATE	04/22/2011

LOWER LEVEL PARKING PLUMBING PLAN

P-1

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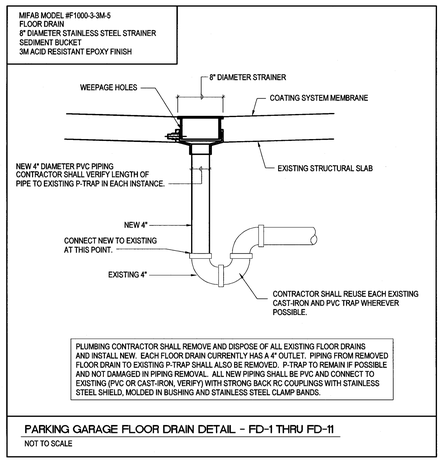
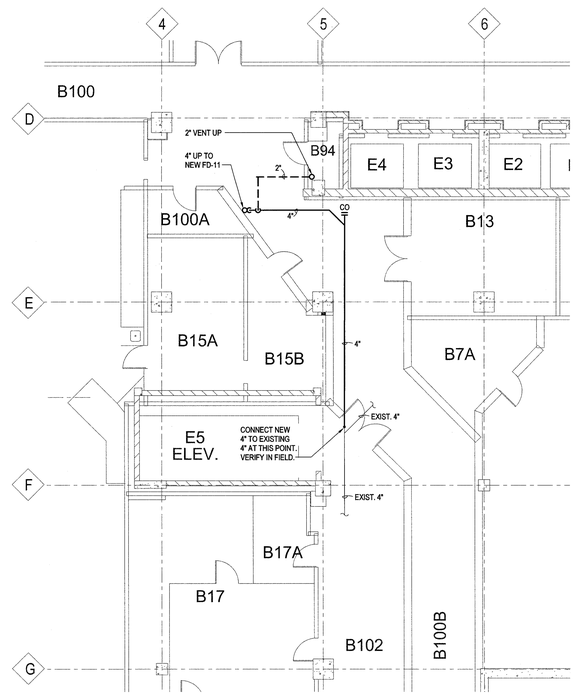


PARKING GARAGE FLOOR DRAIN DETAIL - FD-1 THRU FD-11

NOT TO SCALE



1 / P2 BASEMENT PLUMBING PLAN

1/8"=1'-0"

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PROJECT INFORMATION

ZEIDLER MUNICIPAL BUILDING - LOWER LEVEL PARKING RESTORATION

841 North Broadway
Milwaukee, WI. 53202

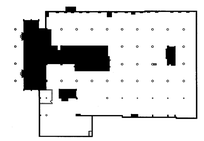
ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN



SHADED AREAS ARE NOT IN CONTRACT

SHEET INFORMATION

PROJECT MANAGER	PEK
PROJECT NUMBER	310077-07
DATE	04/22/2011

BASEMENT PLUMBING PLAN

P-2

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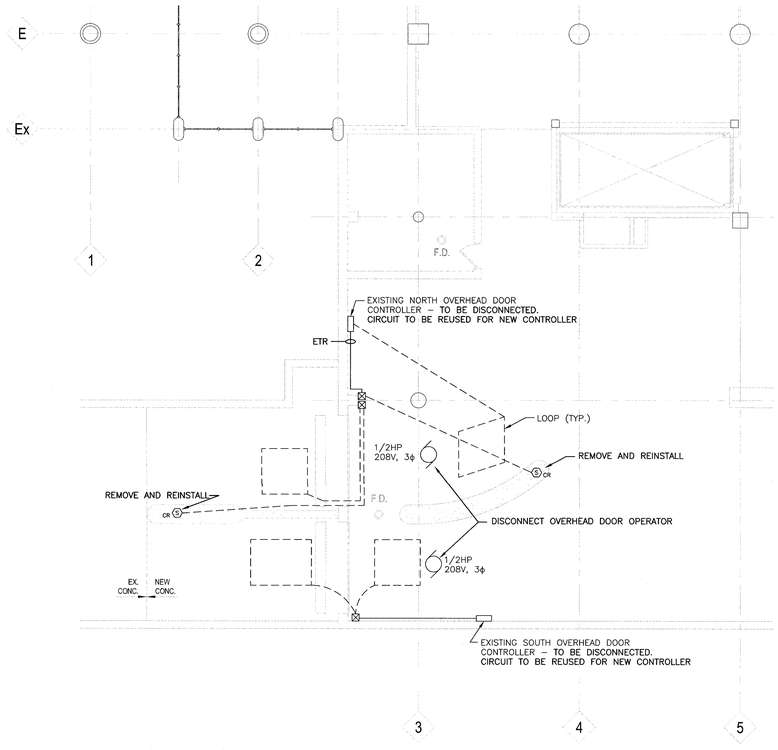

NOTES:

1. ALL EQUIPMENT AND WIRING/CONDUIT PATHS SHOWN ARE BASED ON FIELD OBSERVATIONS AND IS NOT GUARANTEED TO BE 100% ACCURATE.
2. ALL EQUIPMENT AND WIRING/CONDUIT SHOWN ON THE PLAN SHALL BE DISCONNECTED, REMOVED AND DISPOSED UNLESS OTHERWISE NOTED.

1 DEMOLITION PLAN
1/8" = 1'-0"

POWER AND DIAGRAMS

- DUPLEX RECEPTACLE – MOUNTED 16" AFF TO BOTTOM
  - DENOTES THE FOLLOWING:
    - C – MOUNTED 6" ABOVE COUNTER TO BOTTOM
    - CLG – CEILING MOUNTED
    - DD – FOURPLEX RECEPTACLE – TWO DUPLEX RECEPTACLES UNDER A COMMON COVERPLATE.
    - EQ – MOUNTED ON EQUIPMENT OR MILLWORK FURNISHED BY OTHERS.
    - GFI – GROUND FAULT CIRCUIT INTERRUPTER TYPE
    - H – MOUNTED HORIZONTALLY
    - IG – ISOLATED GROUND
    - S – UPPER HALF SWITCH
    - TP – TAMPER PROOF "CHILDSAFE" TYPE
    - TS – MOUNTED HORIZONTALLY IN TOE SPACE
    - TVSS – TRANSIENT VOLTAGE SURGE SUPPRESSER WITH ISOLATED GROUND.
    - WP – WEATHER PROOF WITH GFI
    - WPIU – WEATHER PROOF WITH GFI AND IN–USE COVER
- FLOORBOX COMBINATION – POWER, TELEPHONE, DATA
- FLUSH FLOOR OUTLET
  - DENOTES THE FOLLOWING:
    - FC – FURNITURE PARTITION COMMUNICATION FEED
    - FP – FURNITURE PARTITION POWER FEED
    - R – DUPLEX RECEPTACLE(S)
- SPECIAL PURPOSE OUTLET – SEE SCHEDULE
- MULTI–RECEPTACLE ASSEMBLY WITH DEVICES INDICATED
- JUNCTION BOX
  - DENOTES THE FOLLOWING:
    - P – POWER CONNECTION TO BUILT–IN COUNTER OR FUITURE PARTITION.
    - PP – POWER POLE
    - T – TELECOMMUNICATIONS CONNECTION TO BUILT–IN COUNTER OR FURNITURE PARTITION.
- EMERGENCY MUSHROOM HEAD PUSH BUTTON
- GEN ANN – EMERGENCY GENERATOR REMOTE ANNUNCIATOR
- PUSH BUTTON
- MOTOR – SEE SCHEDULE
- MC – MOTOR STARTER
- DISCONNECT SWITCH
- DISCONNECT SWITCH – FUSIBLE
- PC – PHOTOCELL
- TC – TIME CLOCK
- C – CONTACTOR
- R – RELAY
- S – SCOREBOARD JACK – MOUNTED AT 18" AFF
- SWITCH – NON FUSED
  - AMPS, POLES
- SWITCH – FUSED
  - AMPS, POLES
- CIRCUIT BREAKER
  - AMPS, POLES
- LA – LIGHTNING/SURGE ARRESTER
- PT – POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- M – METER
- A B – AUTOMATIC TRANSFER SWITCH – (3) POLE
- AUTOMATIC TRANSFER SWITCH – (3) POLE WITH BYPASS ISOLATION.
- GEN – GENERATOR
- ELECTRICAL DISTRIBUTION PANEL – EXISTING
- ELECTRICAL DISTRIBUTION PANEL – NEW
- T – TRANSFORMER
- GROUND
- TRANSOCKET/METER
- CABLE TRAY
  - TYPE
    - L – LADDER
    - M – MESH
    - S – SOLID BOTTOM
  - DEPTH
  - WIDTH
- X–3 – CIRCUITING
  - CIRCUIT NUMBER
  - PANELBOARD DESIGNATION
- #6 – RACEWAY CONDUCTOR
  - WIRE SIZE, IF OTHER THAN #12
  - QUANTITY OF PHASE CONDUCTORS
  - NEUTRAL CONDUCTOR
  - GROUND CONDUCTOR

ABBREVIATIONS

A/E	–	ARCHITECT/ENGINEER
ABV	–	ABOVE
AF	–	AMP FUSE
AFF	–	ABOVE FINISHED FLOOR
ARCH	–	ARCHITECT
AFG	–	ABOVE FINAL GRADE
ALT SW	–	ALTERNATOR SWITCH
AS	–	AMP SWITCH
BKR	–	BREAKER
BFG	–	BELOW FINAL GRADE
BOL	–	BUILT–IN OVERLOAD PROTECTION
C	–	CONDUIT
CB	–	CIRCUIT BREAKER
CKT	–	CIRCUIT
CS	–	COMBINATION STARTER
DN	–	DOWN
DS	–	DISCONNECT SWITCH
EC	–	ELECTRICAL CONTRACTOR
ELEV	–	ELEVATION
EMT	–	ELECTRICAL METALLIC TUBING
ENT	–	ELECTRICAL NON–METALLIC TUBING
ERL	–	EXISTING TO BE RELOCATED
ETR	–	EXISTING TO REMAIN
EWC	–	ELECTRIC WATER COOLER
EX	–	EXISTING
F	–	FURNISHED
FIXT	–	FIXTURE
FLUOR	–	FLUORESCENT
FS	–	FREEZE–STAT
GC	–	GENERAL CONTRACTOR
GRC	–	GALVANIZED RIGID CONDUIT
GRDG	–	GROUNDING
HOA	–	HAND–OFF–AUTO SELECTOR SWITCH
HP	–	HORSEPOWER
HVAC	–	HEATING, VENTILATING, AND AIR CONDITIONING CONTRACTOR
HW	–	HEAVY WALL
I	–	INSTALLED
IL	–	INTERLOCK
IMC	–	INTERMEDIATE METAL CONDUIT
IU	–	IN UNIT
JB	–	JUNCTION BOX
KW	–	KILOWATT
LOC	–	LOCATION
LTG	–	LIGHTING
LVT	–	LINE VOLTAGE THERMOSTAT
MAG	–	MAGNETIC STARTER
MAN	–	MANUAL STARTER
MCB	–	MAIN CIRCUIT BREAKER
MLO	–	MAIN LUGS ONLY
MNT	–	MOUNT
MSB	–	MAIN SWITCHBOARD
MTD	–	MOUNTED
NU	–	NEAR UNIT
NIC	–	NOT IN CONTRACT
OC	–	ON CENTER
OU	–	ON UNIT
P	–	POLE
PB	–	PUSH–BUTTON
PEND	–	PENDANT
PE SW	–	PNEUMATIC ELECTRIC SWITCH
PLBG	–	PLUMBING CONTRACTOR
PNL	–	PANEL
R	–	RECEPTACLE
RAI	–	REMAIN AS IS
REL	–	RELOCATED
SURF	–	SURFACE
SW	–	SWITCH
SP SW	–	SPEED SWITCH
TC	–	TIME CLOCK
TCC	–	TEMPERATURE CONTROL CONTRACTOR
TO	–	TYPICAL OUTLET
TYP	–	TYPICAL
UO	–	UNIQUE OUTLET
VER	–	VERIFY
W	–	WIRED
WG	–	WIRE GUARD
WP	–	WEATHERPROOF
XFMR	–	TRANSFORMER

SECURITY

- (S) X – SECURITY, ACCESS CONTROL AND DOOR MONITORING – PROVIDE ROUGH–IN ONLY. VERIFY EXACT LOCATION OF DEVICES WITH SECURITY CONTRACTOR.
  - DENOTES THE FOLLOWING:
    - CR – CARD READER
    - DC – DOOR CONTACT
    - DP – DOOR POSITION INDICATOR SWITCH
    - EL – ELECTROMAGNETIC LOCK
    - ES – ELECTRIC STRIKE
    - GB – GLASS BREAK DETECTOR
    - KE – KEYLESS ENTRY
    - KP – KEY PAD
    - KS – KEEPER SWITCH
    - MS – MOTION SENSOR
    - RM – REQUEST FOR EXIT – MOTION
    - PBR – PUSH BUTTON FOR RELEASE
- SS CP – SECURITY SYSTEM PANEL

GENERAL

LIGHT LINE ——— EXISTING

DARK LINE ——— NEW

NOTES:

1. ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

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PROJECT INFORMATION

ZEIDLER MUNICIPAL BUILDING - LOWER LEVEL PARKING RESTORATION

841 North Broadway
Milwaukee, WI. 53202

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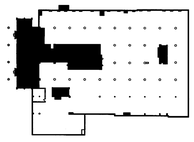
KEY PLAN



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SHEET INFORMATION

PROJECT MANAGER	GWS
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LOWER LEVEL PARKING ELECTRICAL DEMOLITION PLAN SYMBOLS AND ABBREVIATIONS

E100

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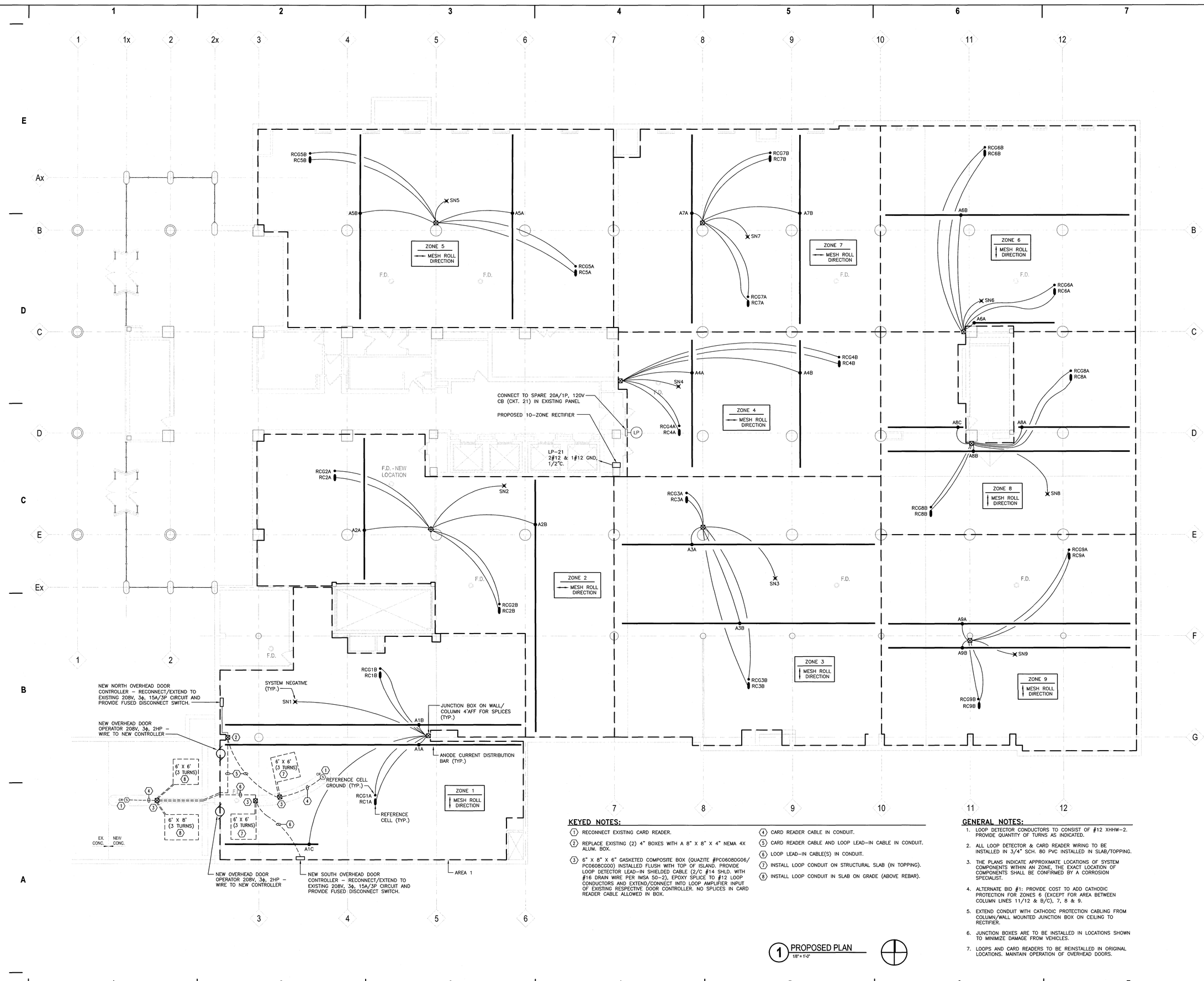

KEYED NOTES:

1. RECONNECT EXISTING CARD READER.
2. REPLACE EXISTING (2) 4" BOXES WITH A 8" X 8" X 4" NEMA 4X ALUM. BOX.
3. 6" X 8" X 6" GASKETED COMPOSITE BOX (QUAZITE #PC0608DG06/ PC0608CG00) INSTALLED FLUSH WITH TOP OF ISLAND. PROVIDE LOOP DETECTOR LEAD-IN SHIELDED CABLE (2/C #14 SHLD. WITH #16 DRAIN WIRE PER IMSA 50-2), EPOXY SPLICE TO #12 LOOP CONDUCTORS AND EXTEND/CONNECT INTO LOOP AMPLIFIER INPUT OF EXISTING RESPECTIVE DOOR CONTROLLER. NO SPLICES IN CARD READER CABLE ALLOWED IN BOX.
4. CARD READER CABLE IN CONDUIT.
5. CARD READER CABLE AND LOOP LEAD-IN CABLE IN CONDUIT.
6. LOOP LEAD-IN CABLE(S) IN CONDUIT.
7. INSTALL LOOP CONDUIT ON STRUCTURAL SLAB (IN TOPPING).
8. INSTALL LOOP CONDUIT IN SLAB ON GRADE (ABOVE REBAR).

GENERAL NOTES:

1. LOOP DETECTOR CONDUCTORS TO CONSIST OF #12 XHHW-2. PROVIDE QUANTITY OF TURNS AS INDICATED.
2. ALL LOOP DETECTOR & CARD READER WIRING TO BE INSTALLED IN 3/4" SCH. 80 PVC INSTALLED IN SLAB/TOPPING.
3. THE PLANS INDICATE APPROXIMATE LOCATIONS OF SYSTEM COMPONENTS WITHIN AN ZONE, THE EXACT LOCATION OF COMPONENTS SHALL BE CONFIRMED BY A CORROSION SPECIALIST.
4. ALTERNATE BID #1: PROVIDE COST TO ADD CATHODIC PROTECTION FOR ZONES 6 (EXCEPT FOR AREA BETWEEN COLUMN LINES 11/12 & B/C), 7, 8 & 9.
5. EXTEND CONDUIT WITH CATHODIC PROTECTION CABLING FROM COLUMN/WALL MOUNTED JUNCTION BOX ON CEILING TO RECTIFIER.
6. JUNCTION BOXES ARE TO BE INSTALLED IN LOCATIONS SHOWN TO MINIMIZE DAMAGE FROM VEHICLES.
7. LOOPS AND CARD READERS TO BE REINSTALLED IN ORIGINAL LOCATIONS. MAINTAIN OPERATION OF OVERHEAD DOORS.

1 PROPOSED PLAN
1/8" = 1'-0"

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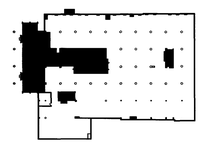

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SHEET INFORMATION

PROJECT MANAGER	GWS
PROJECT NUMBER	310077-07
DATE	04/22/2011

LOWER LEVEL PARKING ELECTRICAL PROPOSED PLAN

E200

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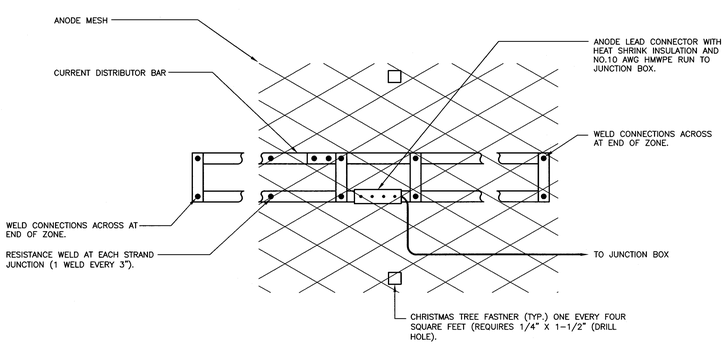
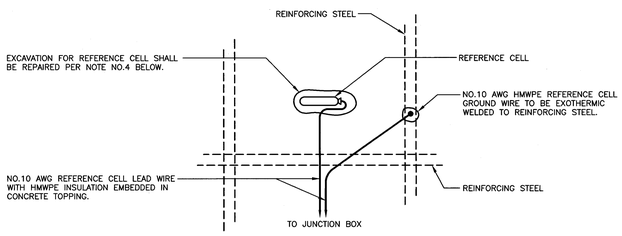
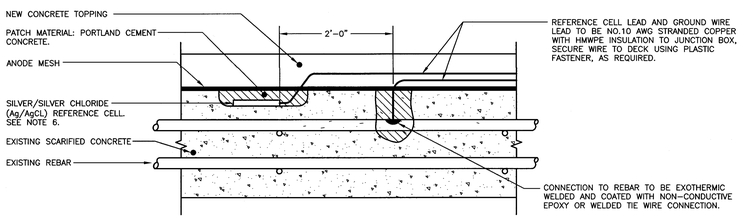


1 ANODE MESH/CURRENT DISTRIBUTION BAR INSTALLATION DETAIL
N.T.S.

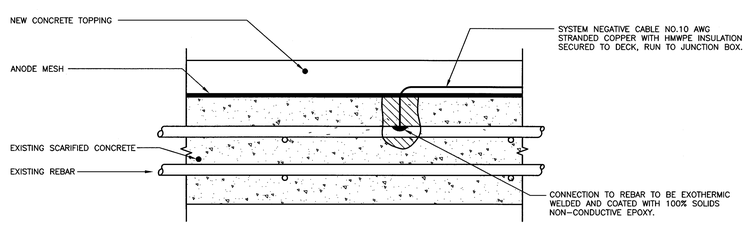




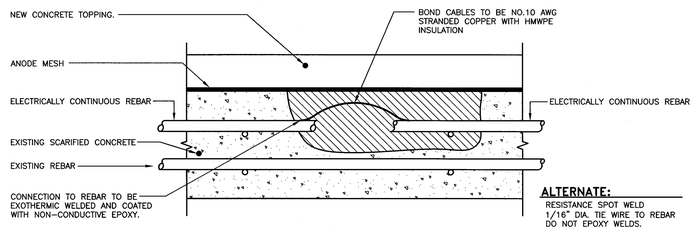
REFERENCE CELL INSTALLATION NOTES:

1. INSTALL REFERENCE CELL AT APPROXIMATE LOCATIONS INDICATED ON DRAWINGS. LOCATE CELLS IN ANODIC (HIGH HALF CELL POTENTIAL) LOCATIONS PER ASTM C-876.
2. LOCATE REFERENCE CELL IN CONCRETE CUT-OUT. DO NOT EXPOSE REINFORCING STEEL.
3. EXOTHERMIC WELD A GROUND CONNECTION NEAR CORRESPONDING REFERENCE CELL. COAT THE CONNECTION WITH A NON-CONDUCTIVE 100% SOLIDS EPOXY.
4. PATCH WITH A PORTLAND CEMENT CONCRETE MIX PRIOR TO ANODE INSTALLATION.
5. DO NOT REMOVE PLASTIC SHIPPING BAG UNTIL READY TO ENCASE IN CONCRETE. SOAK REFERENCE CELL IN WATER FOR 5 MINUTES PRIOR TO INSTALLATION.
6. REFERENCE CELL TO BE INSTALLED AT DEPTH OF REBAR (BETWEEN BARS).

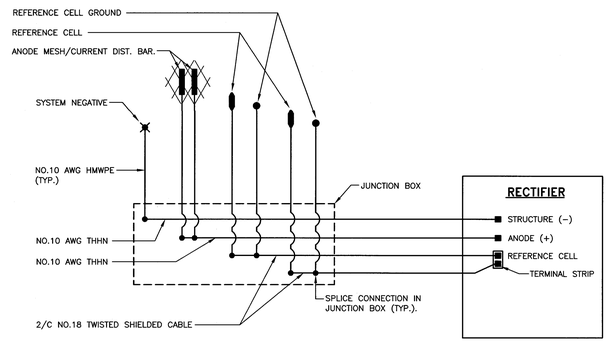
2 REFERENCE CELL INSTALLATION DETAIL
N.T.S.



3 SYSTEM NEGATIVE CONNECTION DETAIL
N.T.S.



4 CONTINUITY BOND DETAIL
N.T.S.



NOTES:

1. ALL WIRES MUST BE PERMANENTLY LABELED AT RECTIFIER AND JUNCTION BOXES:
   A# = ANODE
   SN# = SYSTEM NEGATIVE
   RC# = REFERENCE CELL
   RCG# = REFERENCE CELL GROUND
2. ALL EXPOSED CABLES (NOT IN SLAB) TO BE INSTALLED IN CONDUIT.

5 PARTIAL CATHODIC PROTECTION WIRING DIAGRAM
N.T.S.

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ELECTRICAL DETAILS

E300

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