

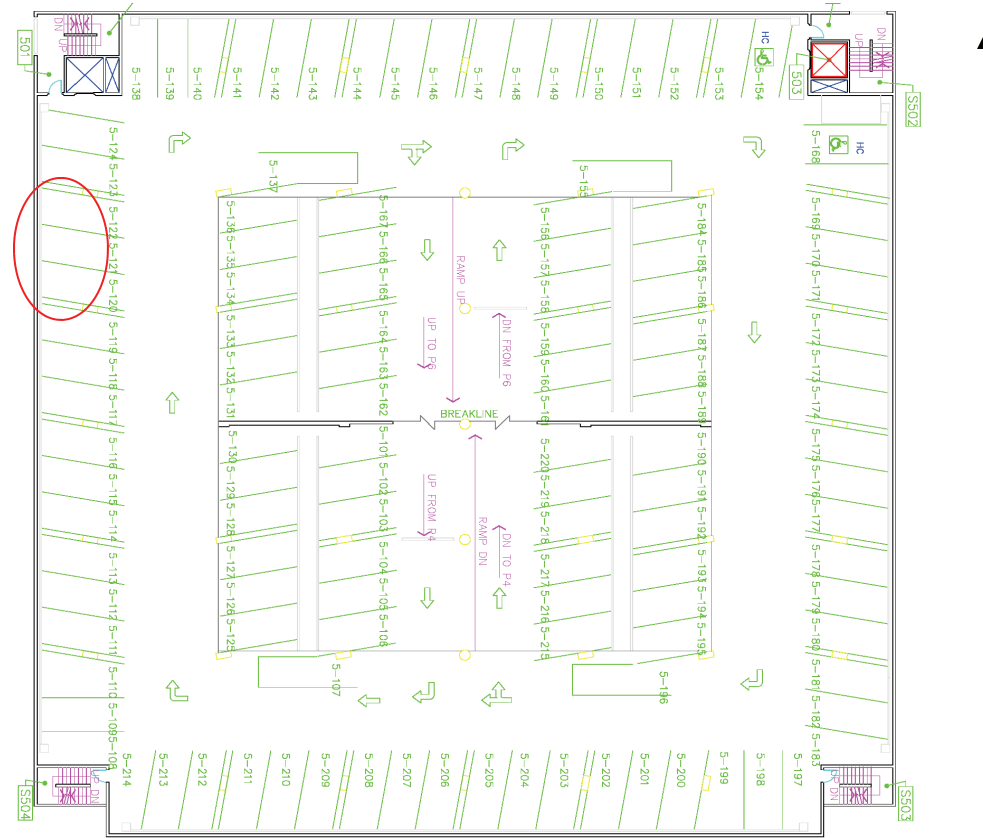
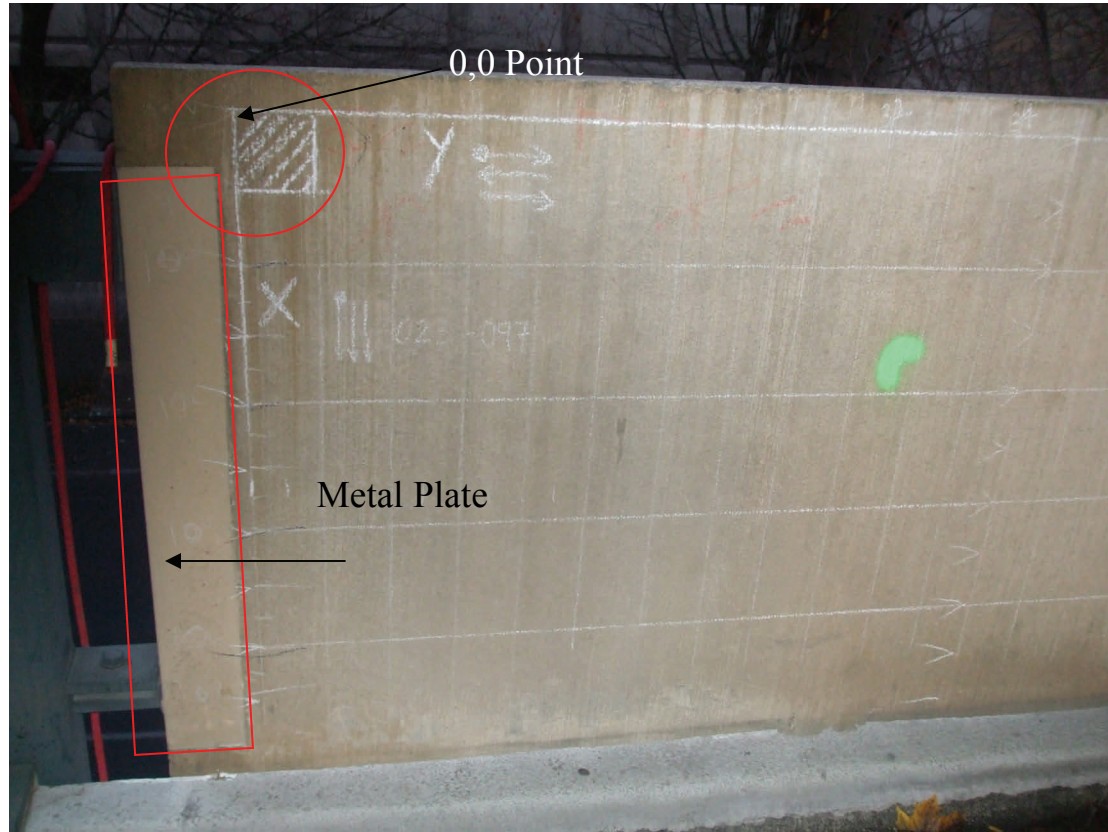
Appendix 5.09
GPR Data

Portland State Parking Structure PS1



Fascia Panel 5th Floor West Side





Antenna: _____
 Grid Dims: _____
 Centers: _____

Samples: _____
 Range: _____
 Diel.: _____
 Sca/unit: _____
 Gain Pts.: _____

Stacking: _____

Field Notes

Scan Level 1 panel grid West Side,
 Grid 5 PW. 6" to Panel Edge
 X → 023-097
 Y ↑ 098-167
 11' to bottom edge
 all panels
 0,0 point
 6" to Panel Edge

The diagram shows a rectangular grid with a '0,0 point' at the bottom-left corner. The grid is 5 units wide and 5 units high. A red circle highlights the bottom-left corner. Handwritten notes specify '6" to Panel Edge' and '11' to bottom edge all panels'.

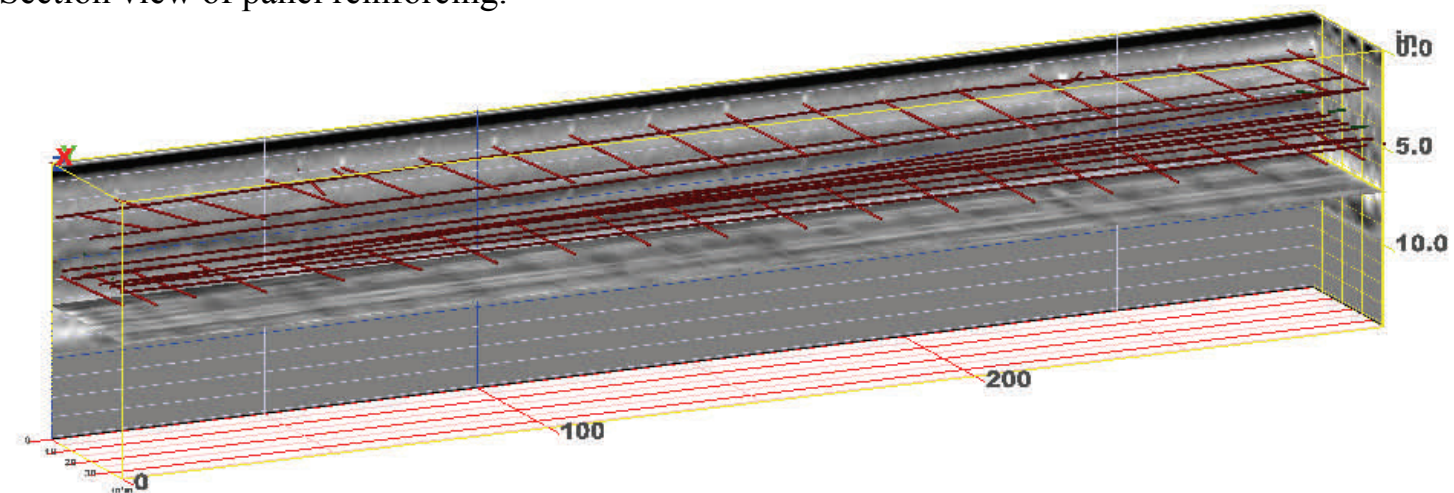
Plan view of panel reinforcing.

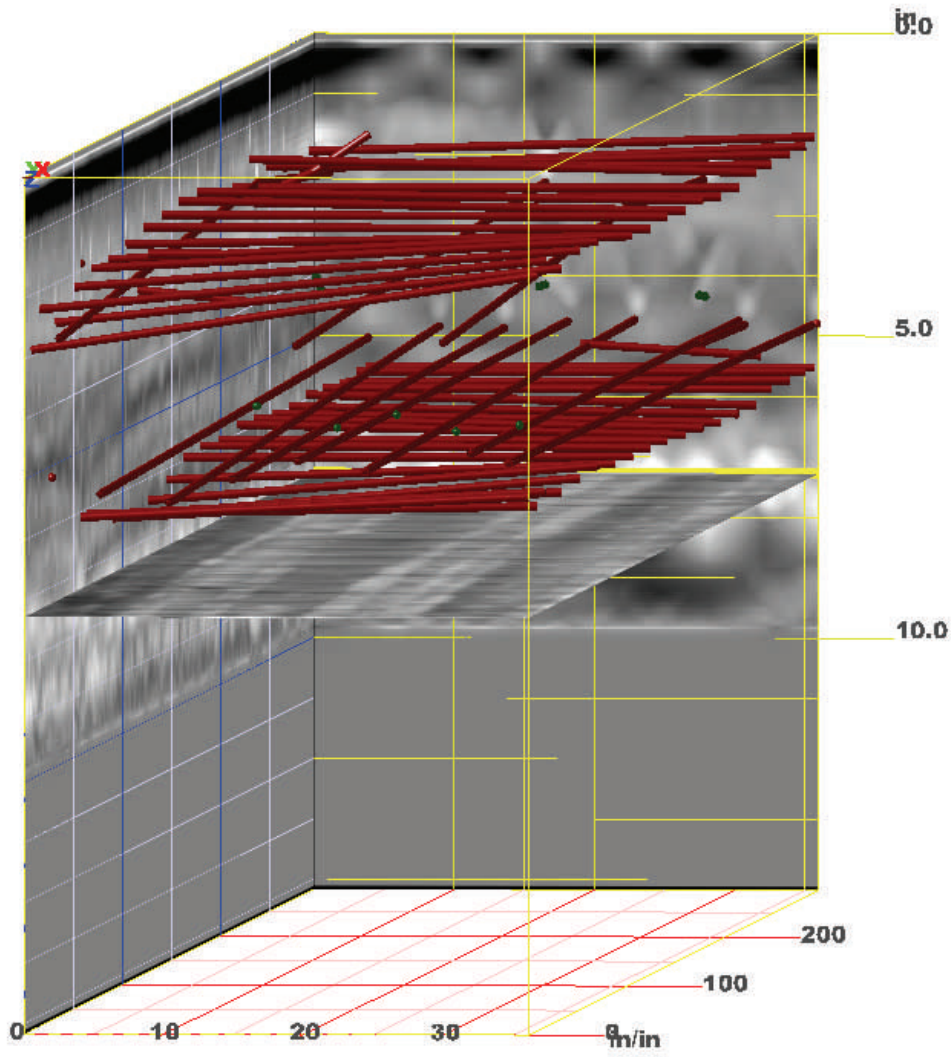


Side view of panel reinforcing.

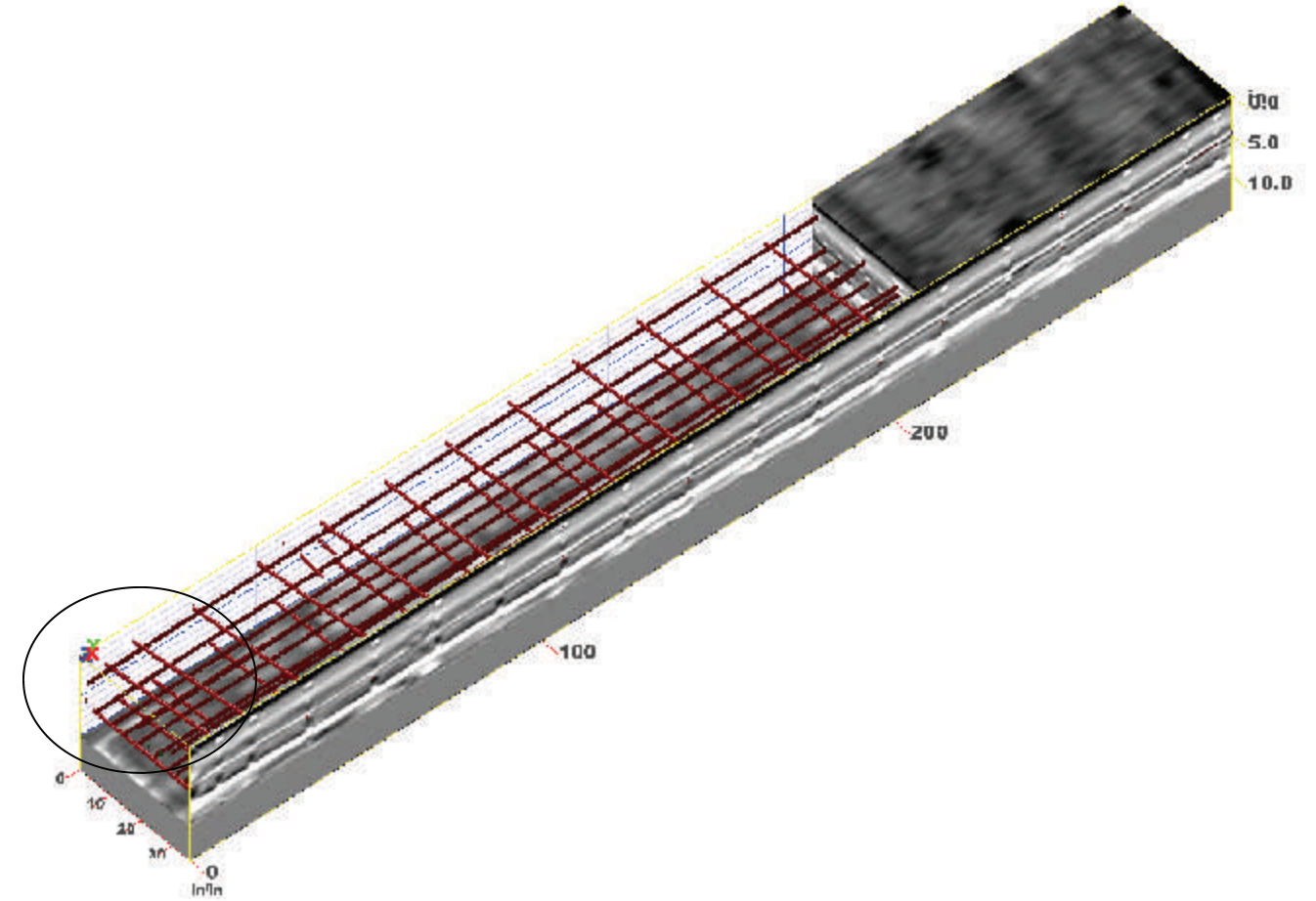


Section view of panel reinforcing.





End view of panel reinforcing.



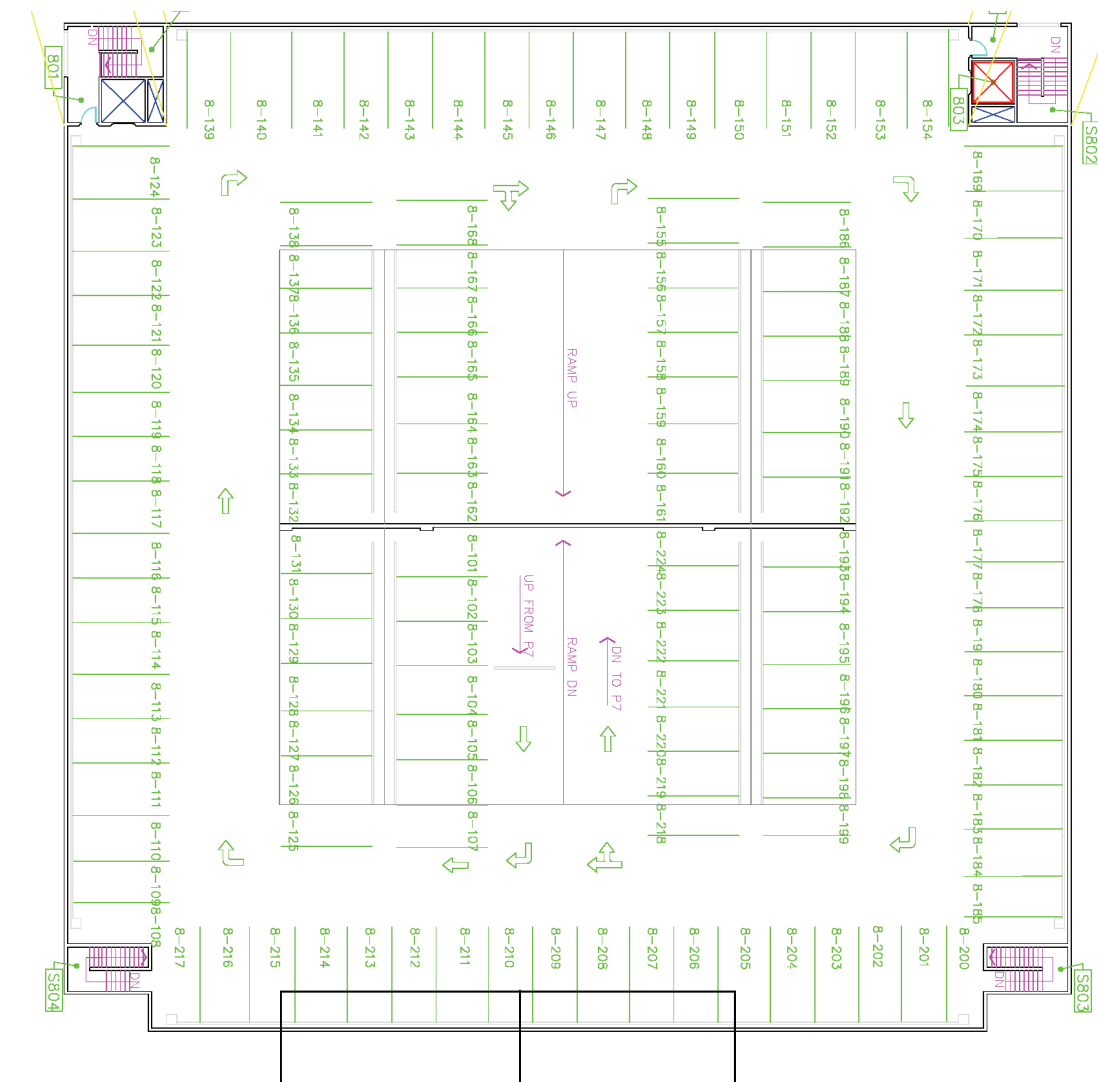
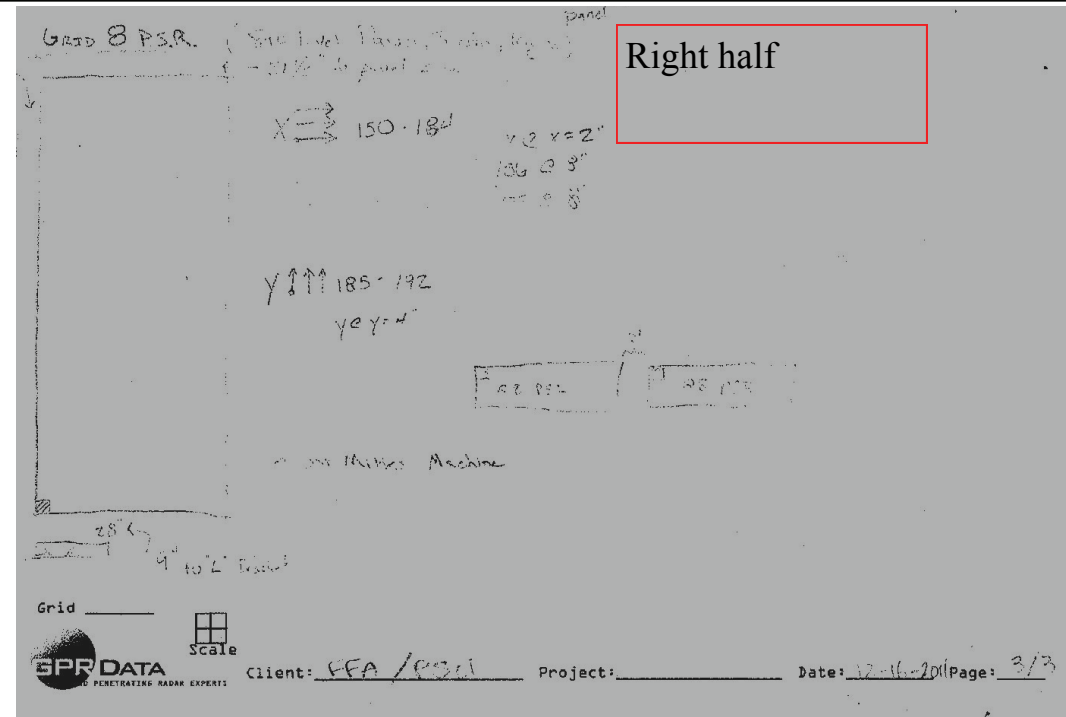
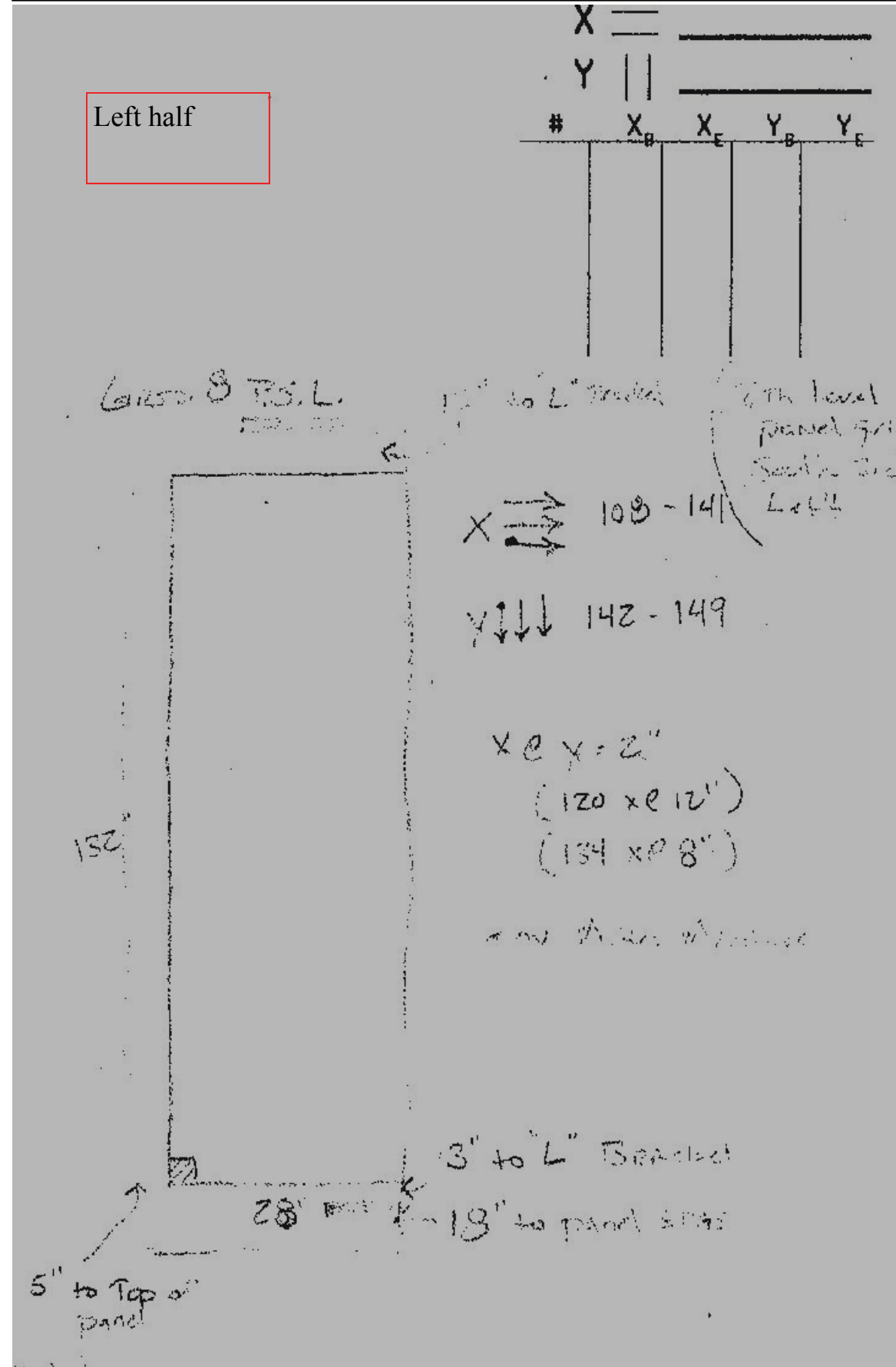
Section view of reinforcing. Double mat reinforcing in each direction.



Fascia Panel 8th Floor South Side





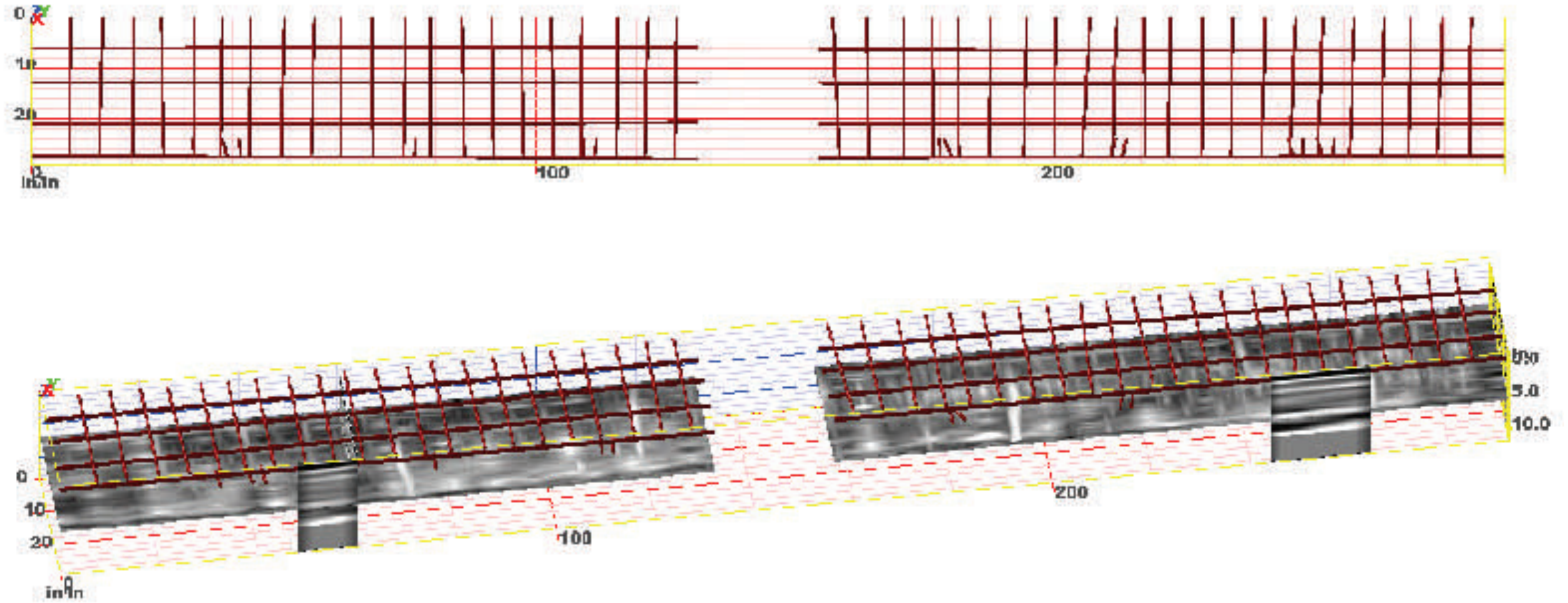


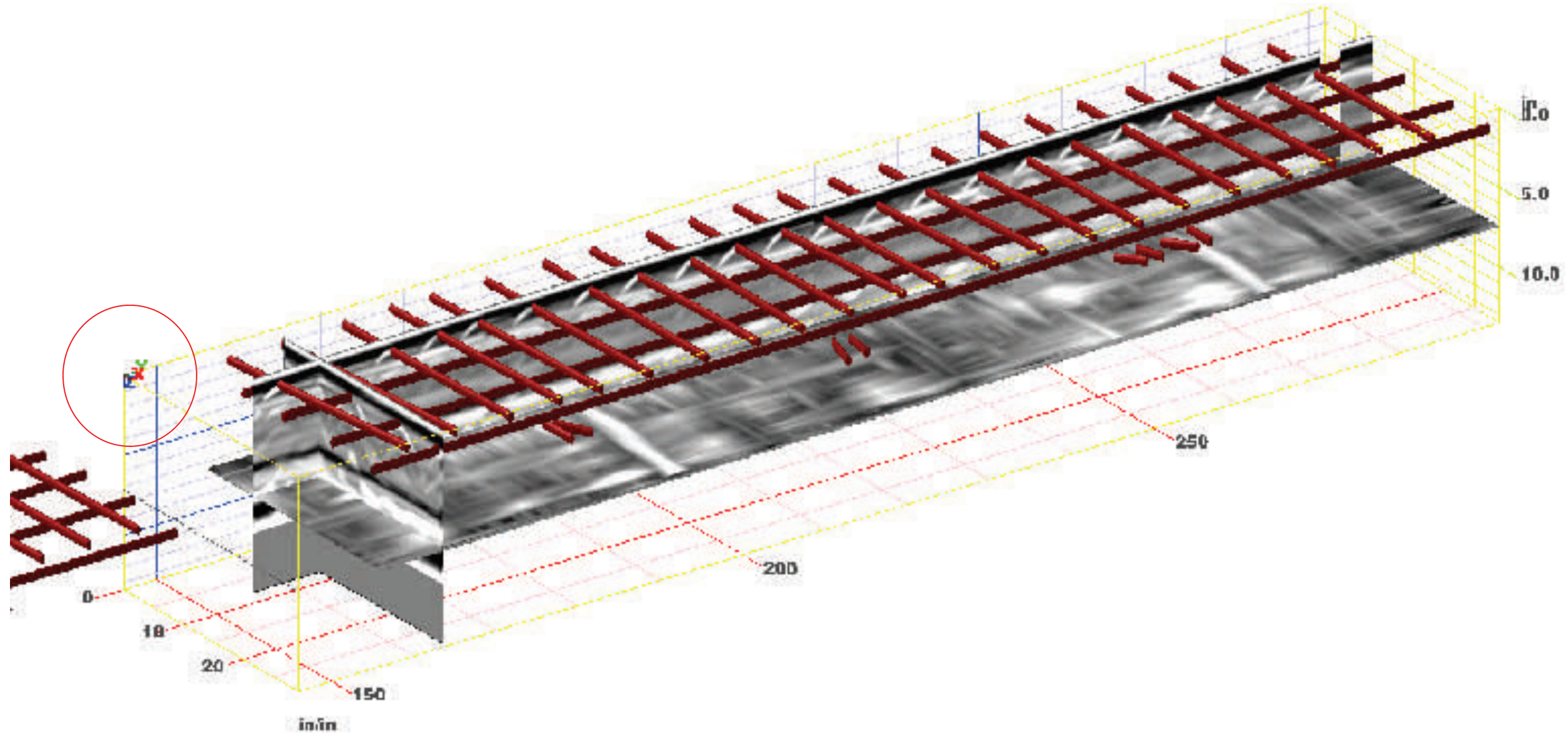
Ground Penetrating Radar Experts

www.GPRDATA.com

2580 Edgewater Drive, Eugene, OR 97401

Tel: 541-345-1075 Fax: 541-684-7865

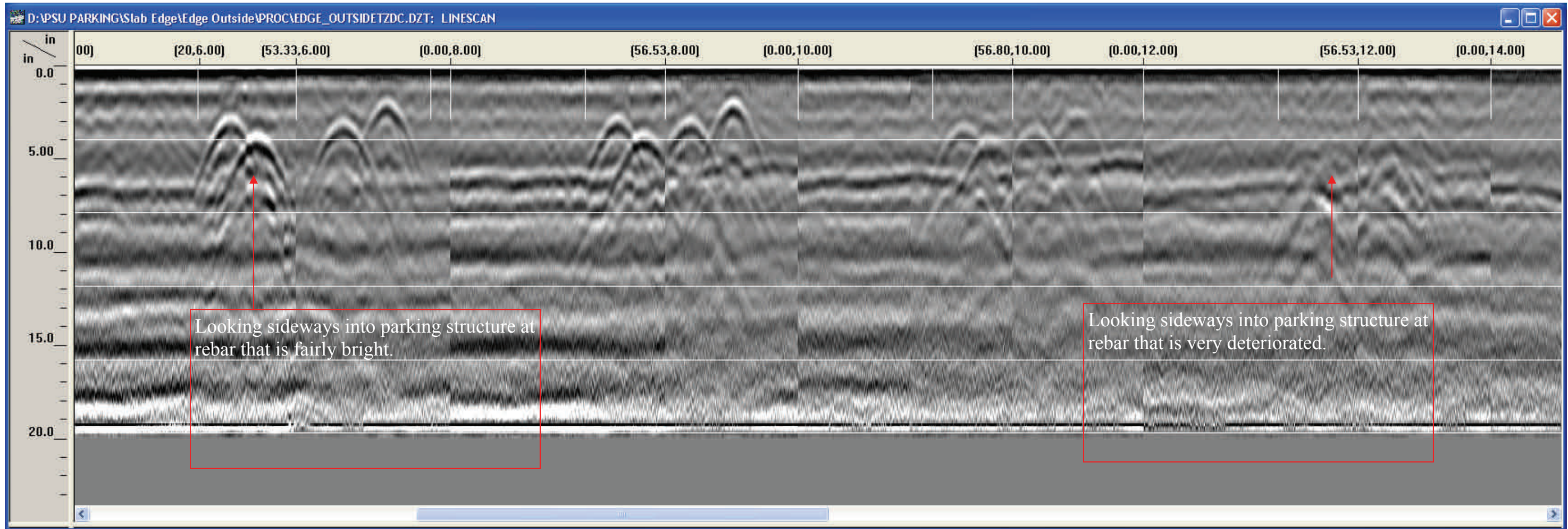




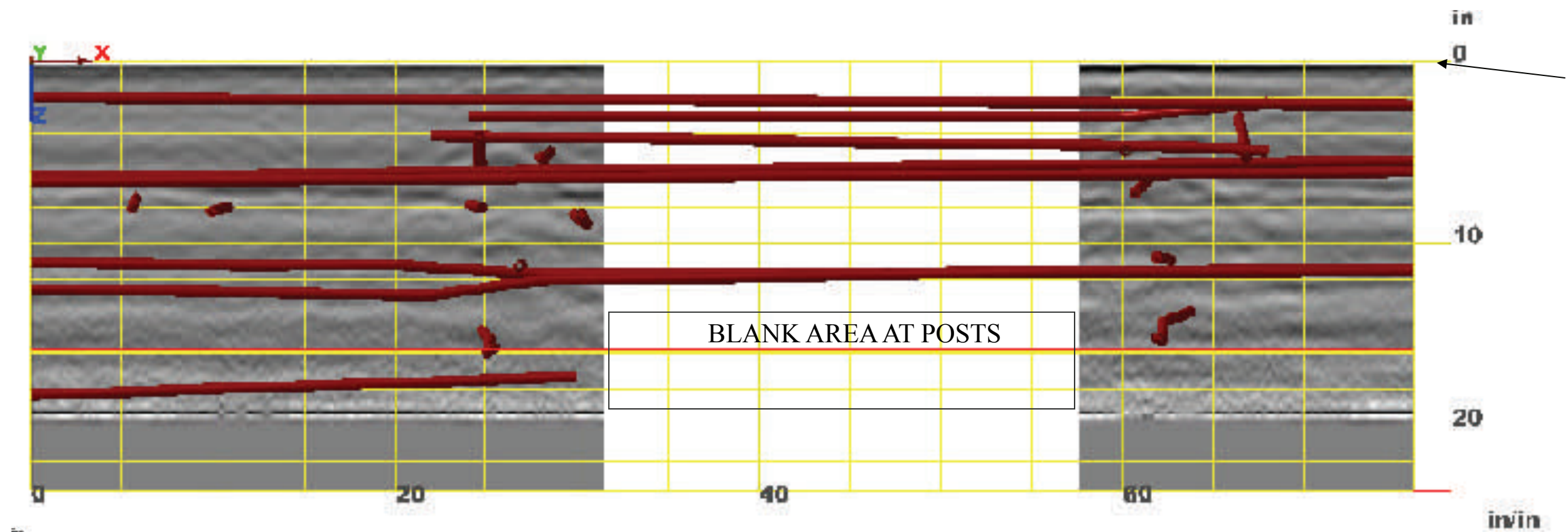
Right half of panel wall. Single mat of reinforcing each direction.

Beam Section 5th Floor West Side Looking Up



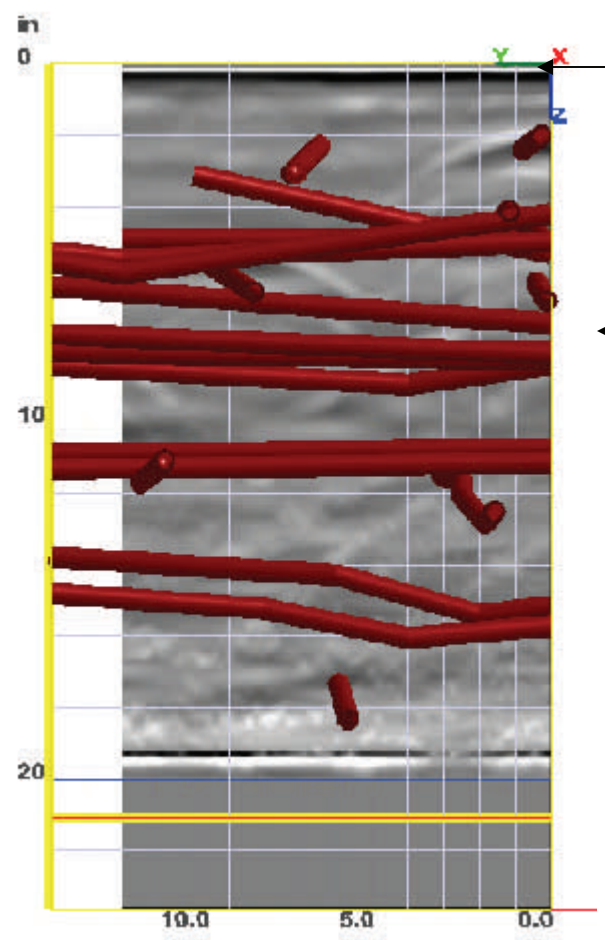


Looking sideways into beam and parking structure. Above scans are horizontal data collections showing rebar running up and down in the beam. Note conditions of vertical rebar as shown.



Top of beam, (to where we could reach).

Looking sideways at beam toward center of building.



Top of beam.

Plan view above of reinforcing for side of beam looking in toward structure.

End view of beam on left. Note that rebar is positioned in an irregular pattern.

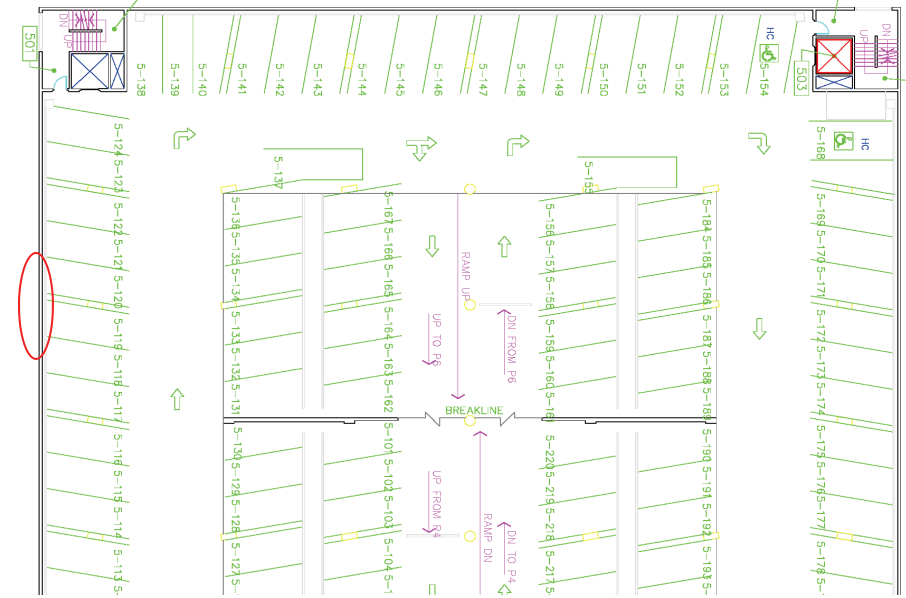
Beam Section Bottom 5th Floor West Side Looking Up



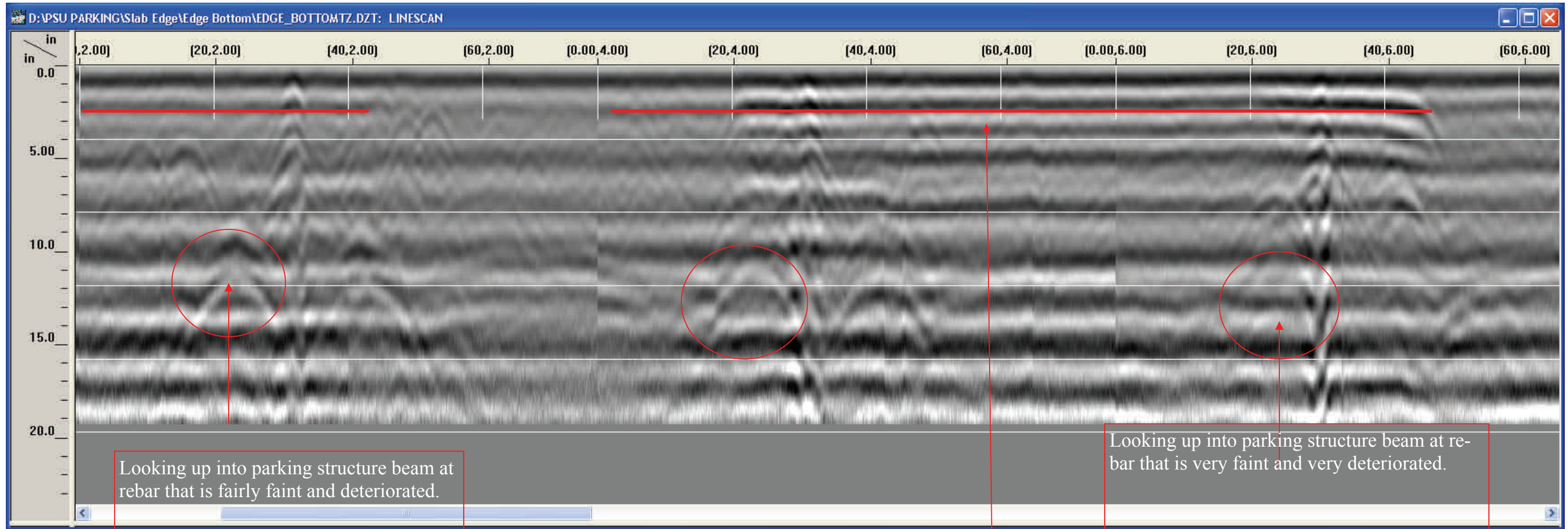


6th floor beam section

Fifth floor looking up at 6th floor beam bottom. Beam bottom face running along west side as per inset diagram.



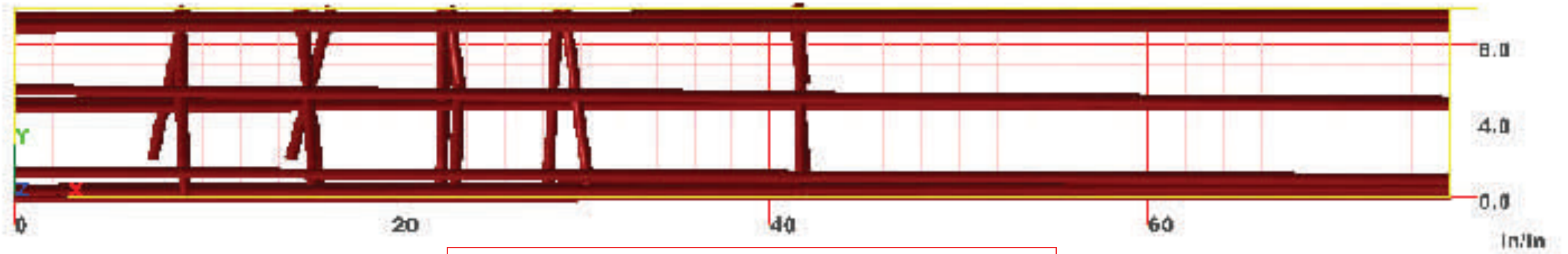
West side beam bottom view on 5th floor looking up.



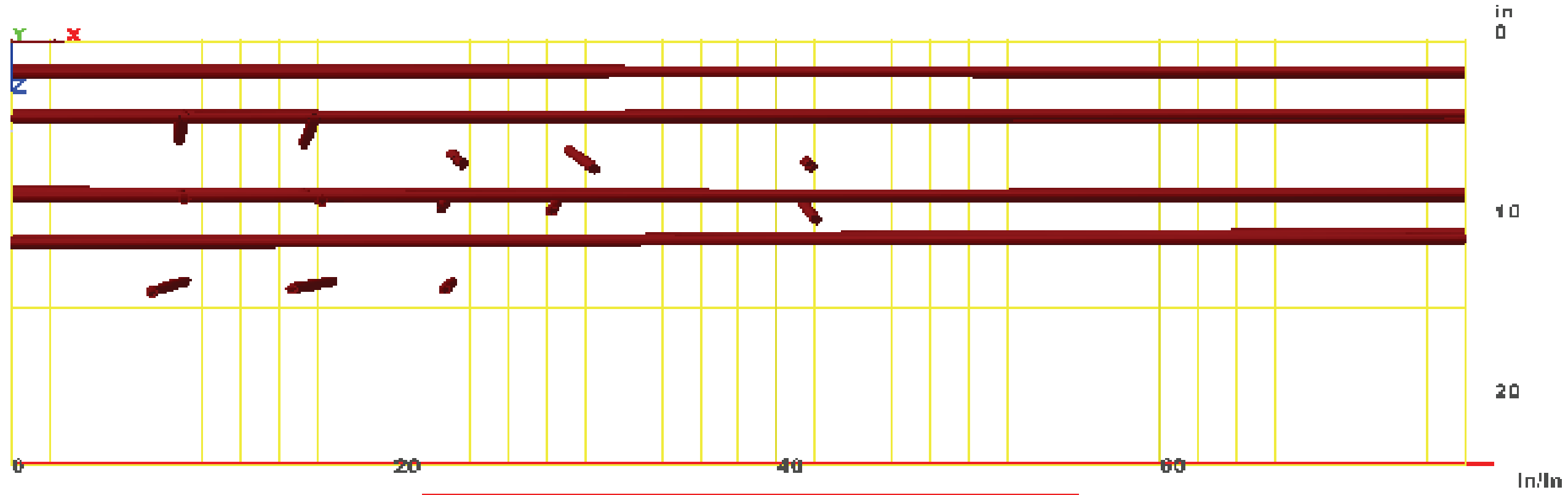
These are longitudinal scans running with the bottom of the beam face. These are the same rebar shown 3 times on 2" centers.

Note the delaminated areas as shown with the horizontal red lines.

Looking up into parking structure beam at rebar that is very faint and very deteriorated.



Looking up at bottom of beam in plan view showing rebar.



Side view of beam turned up showing reinforcing.

Column Cap Section 5th Floor West Side Looking Up to 6th Floor

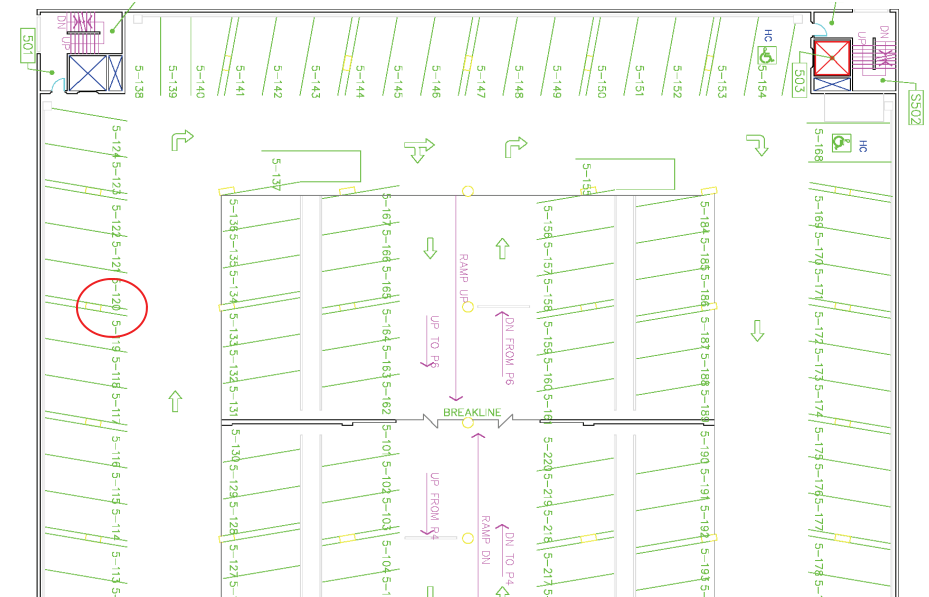
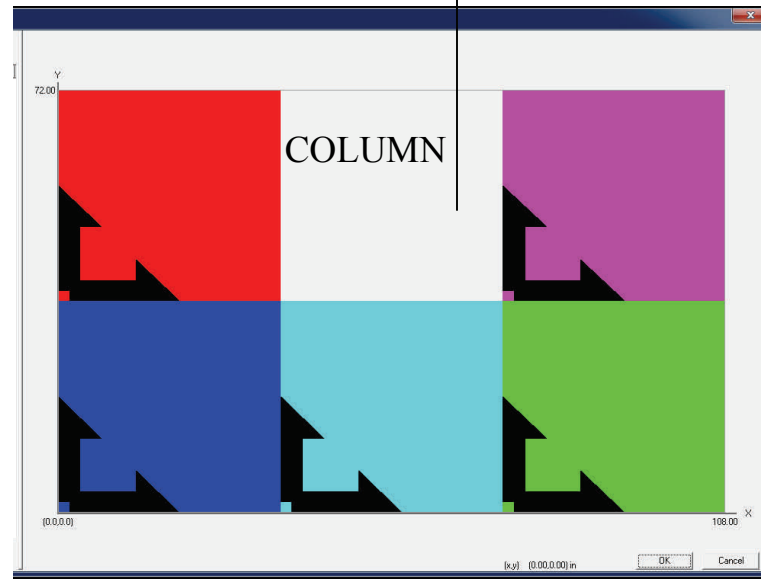




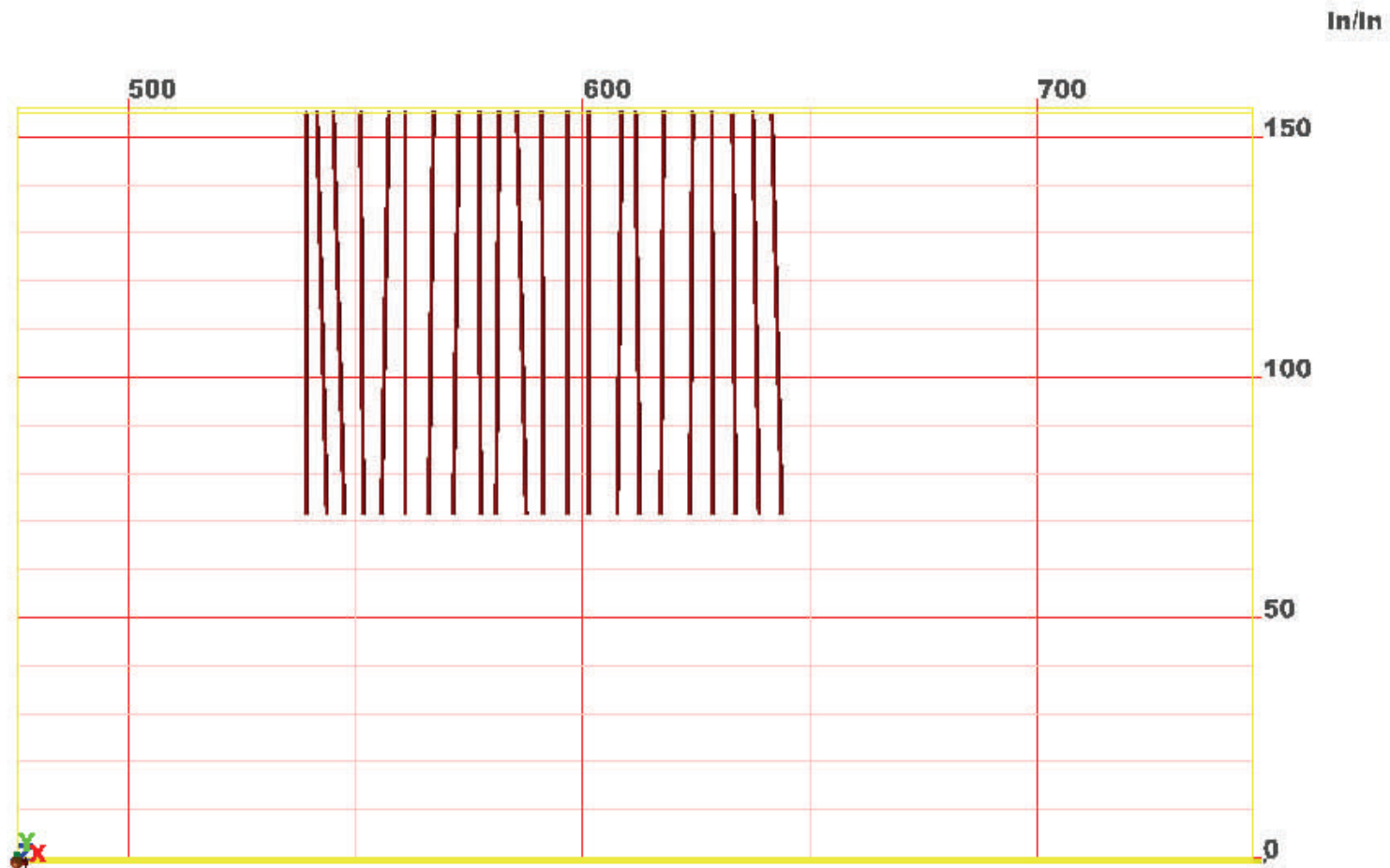
Column cap at 5th floor looking up at 6th floor. See inset for location

Diagram of 3D combined grids.

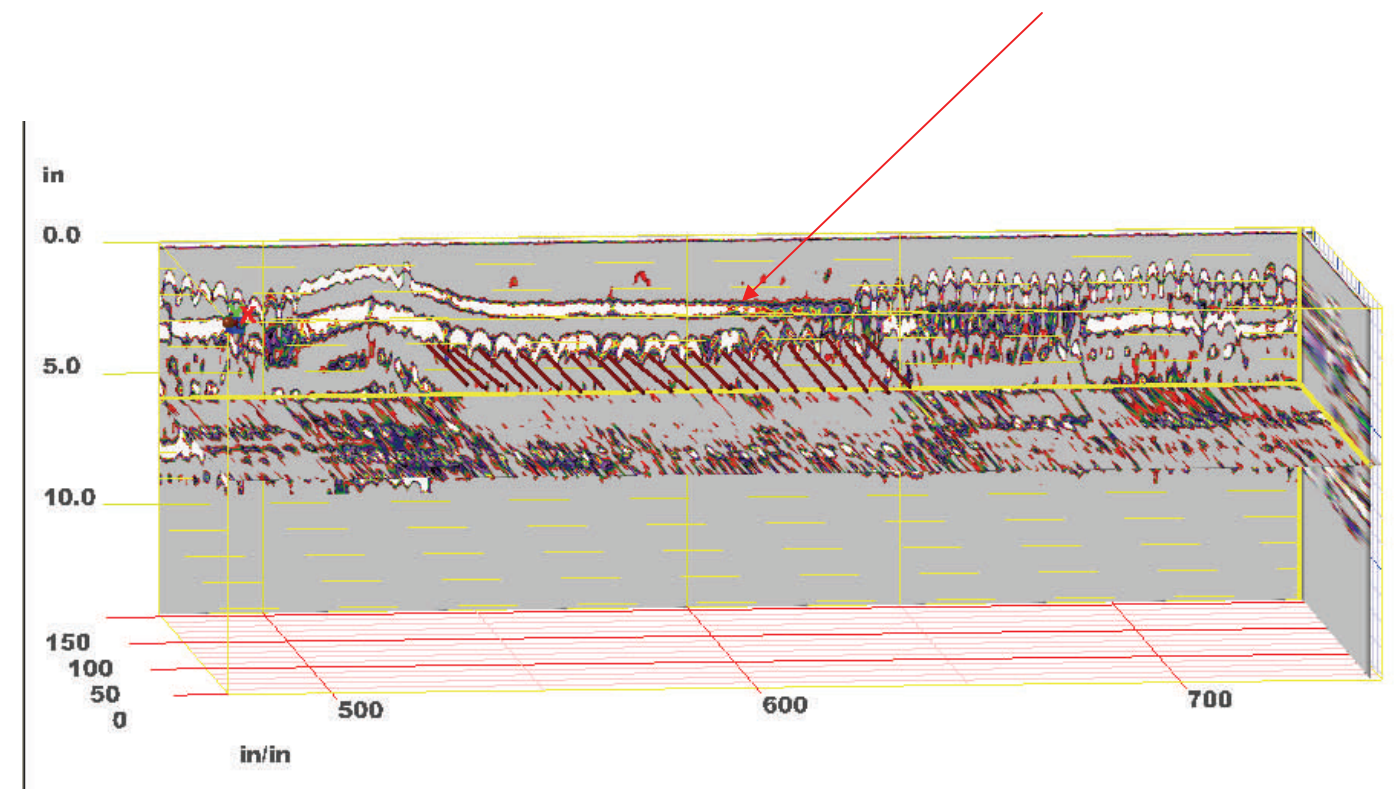
Looking west

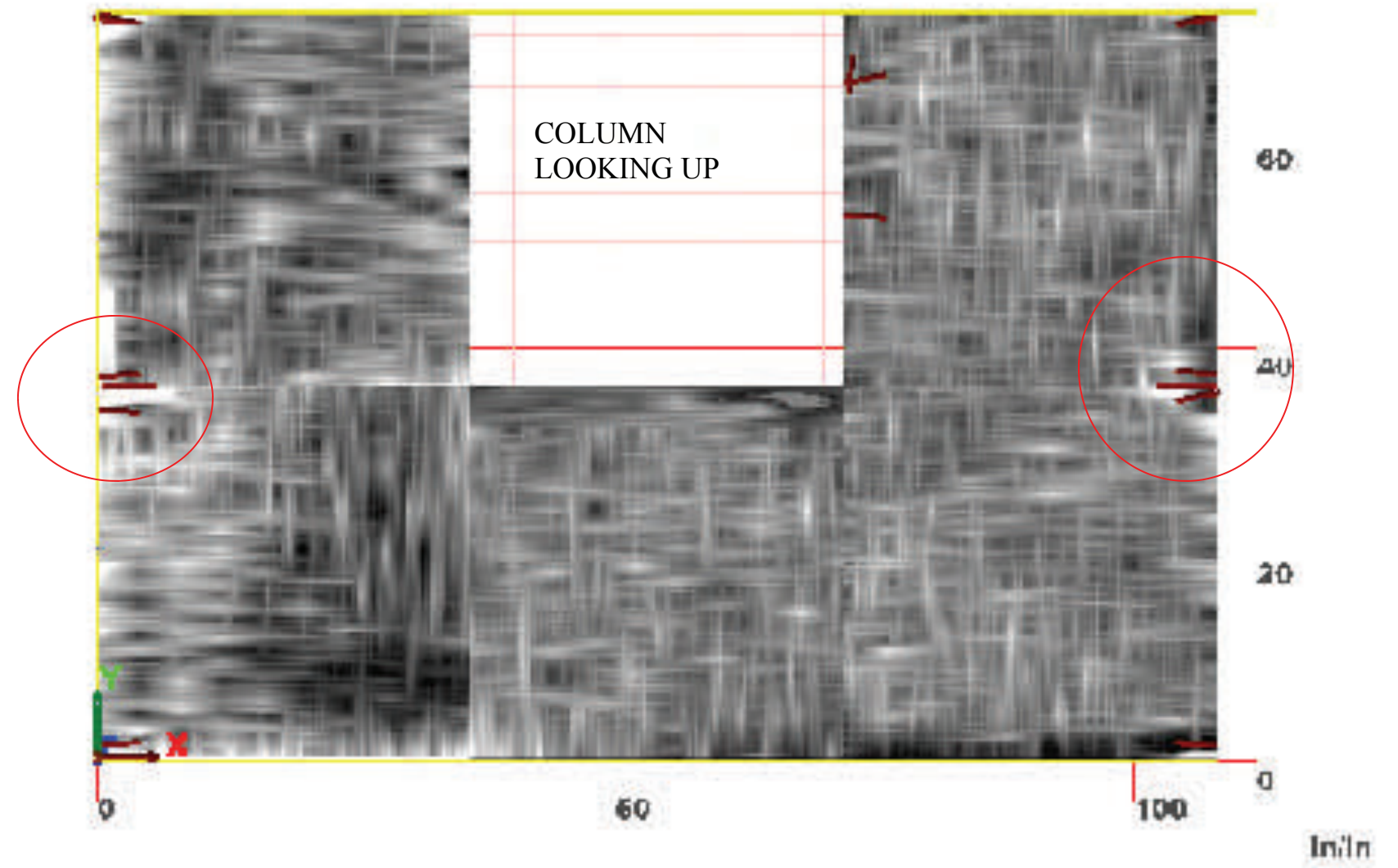
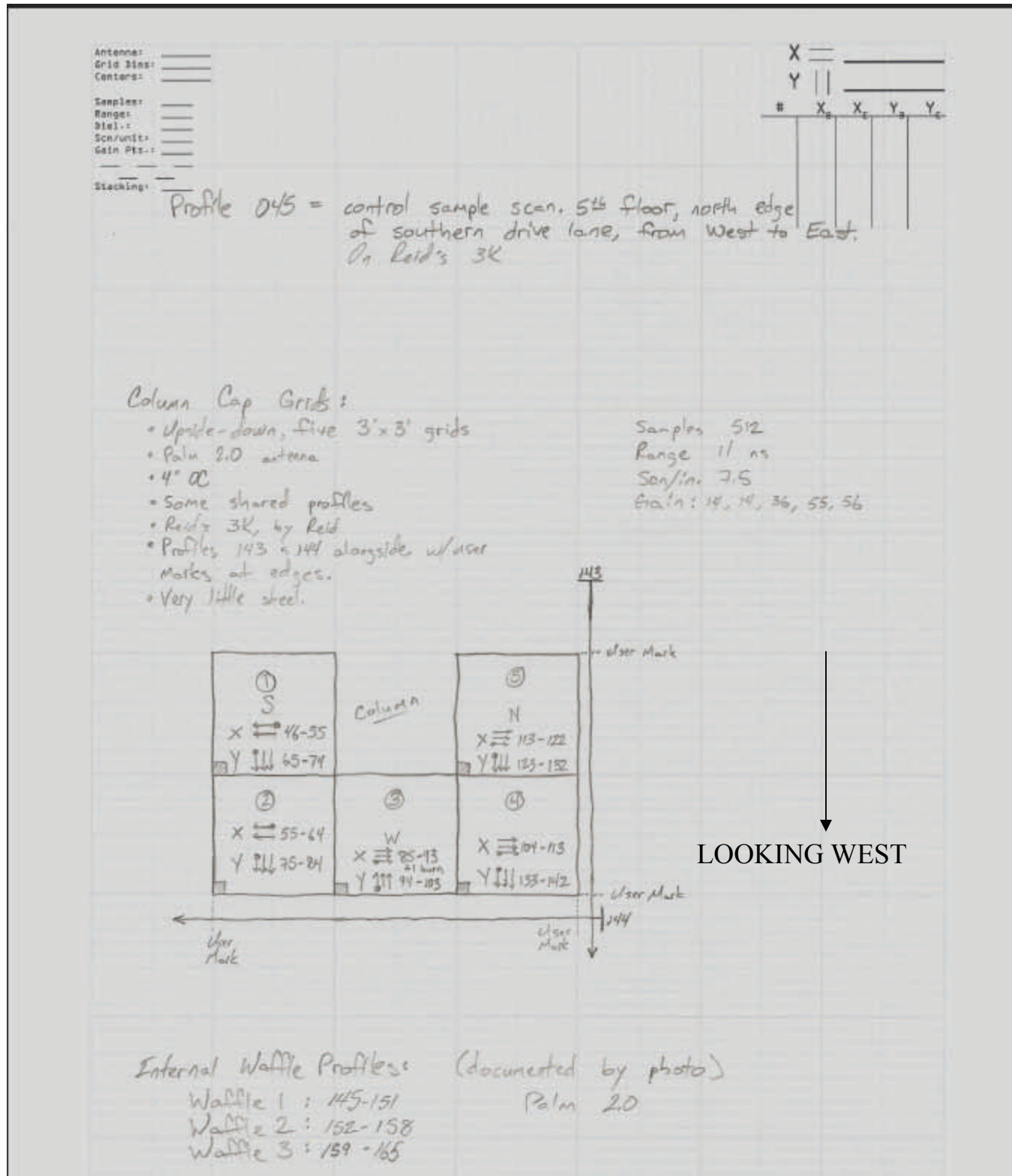


Sixth floor west side at column 2 from the north reinforcement.
This view is looking down on the 6th floor at your feet. 22
pieces of rebar.



Below is side view of rebar at column.





Plan view of column cap on 5th floor looking up. See page 18 for location. Note that the short stubs of rebar shown is the only rebar seen in the first 11" of depth.

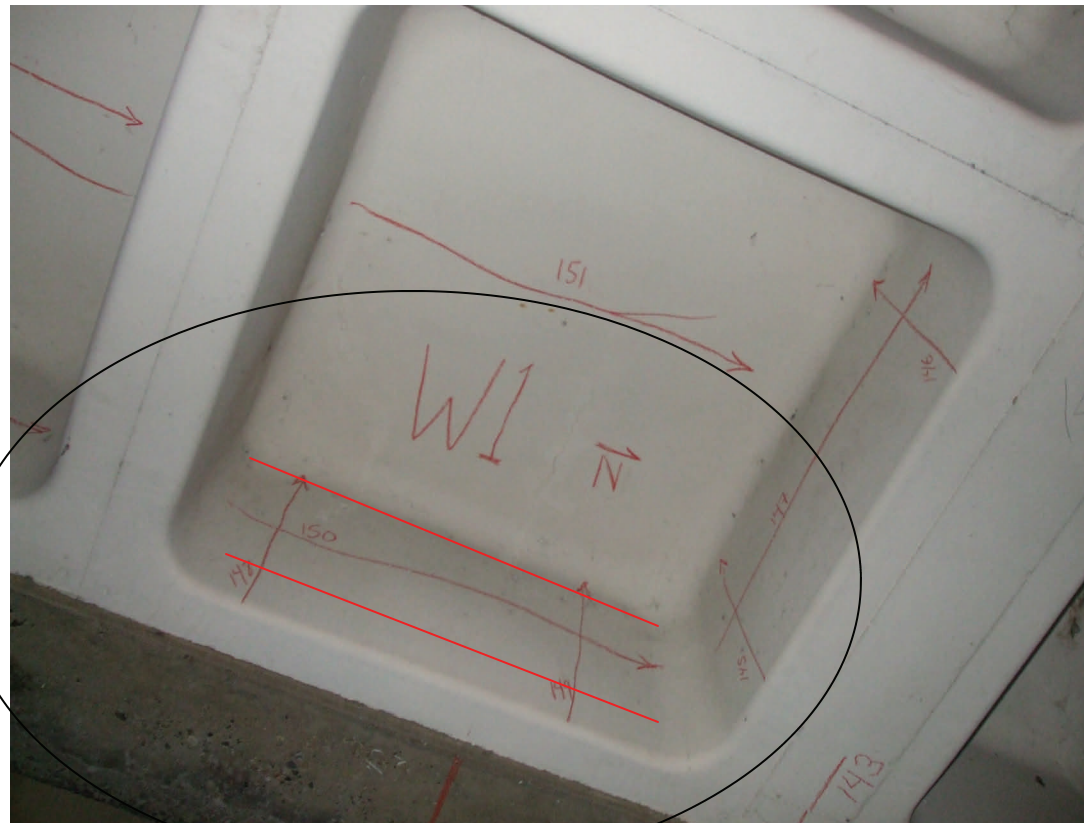
Waffle Panels 5th Floor West Side Looking Up

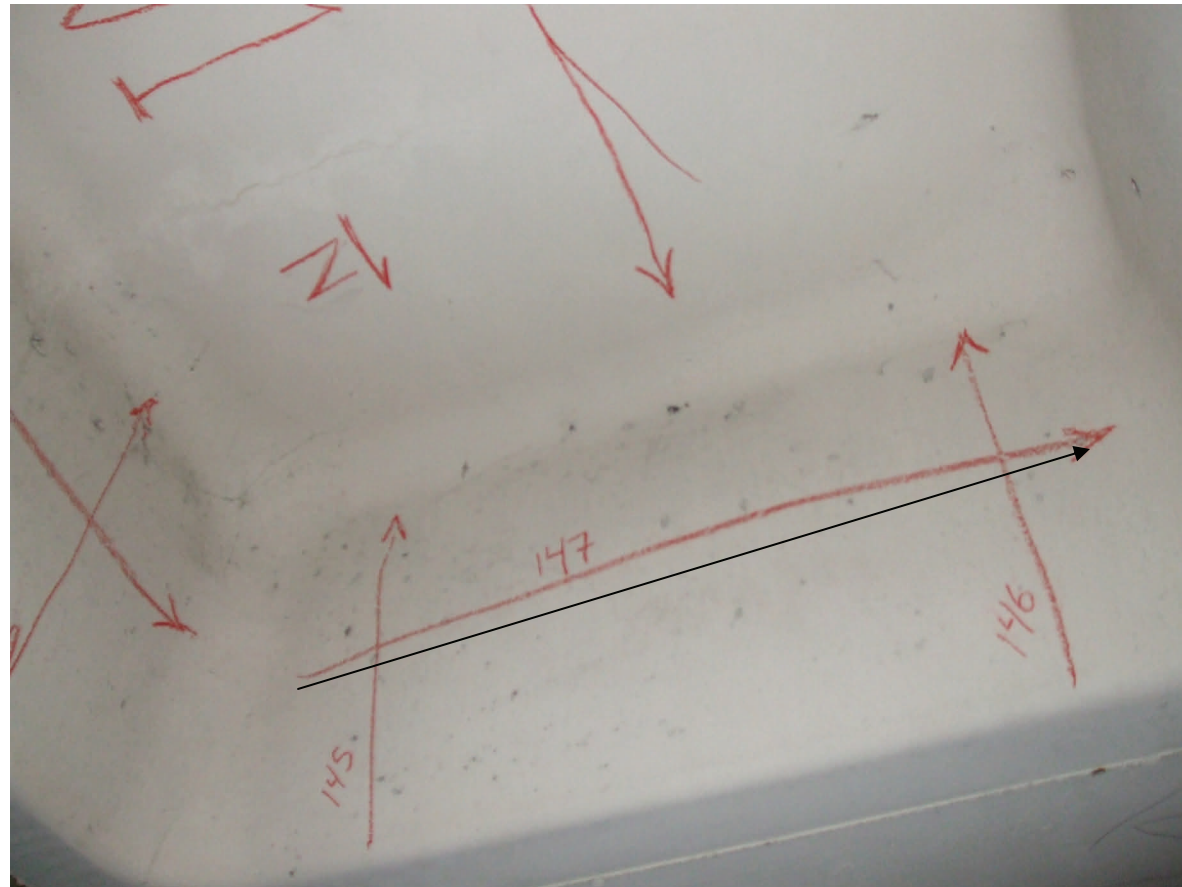




Waffles surveyed contained very little reinforcing except for the top 3-4". Sides of waffles contain 1 piece or in some cases no reinforcing.

Scans below (148 and 149) show 2 pieces of rebar.





Scan 147 shown no rebar.



Ground Proof Cores on Levels 8 thru 4



Ground proof data collection sheet with picture numbers.

Pict # To notes

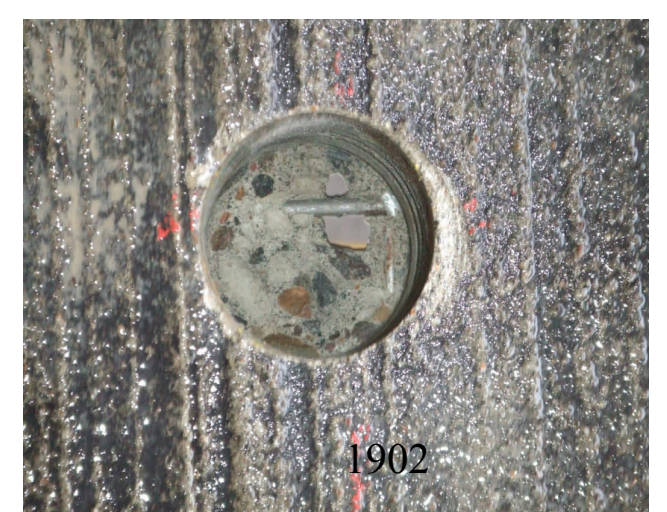
VISUAL INSPECTION REPORT

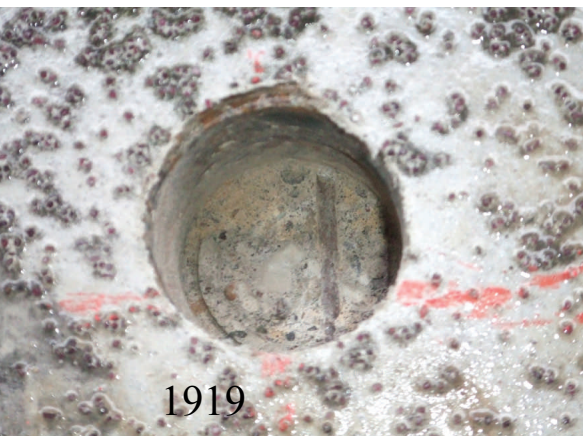
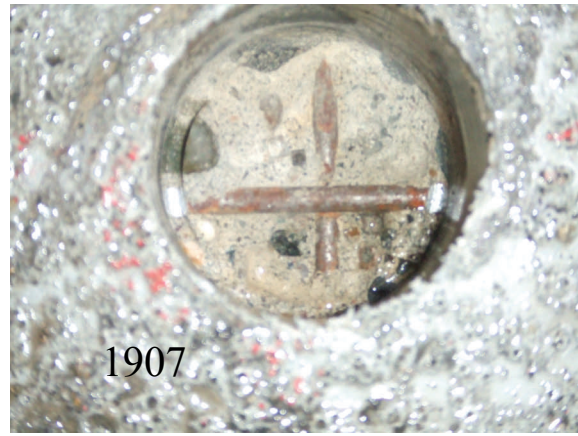
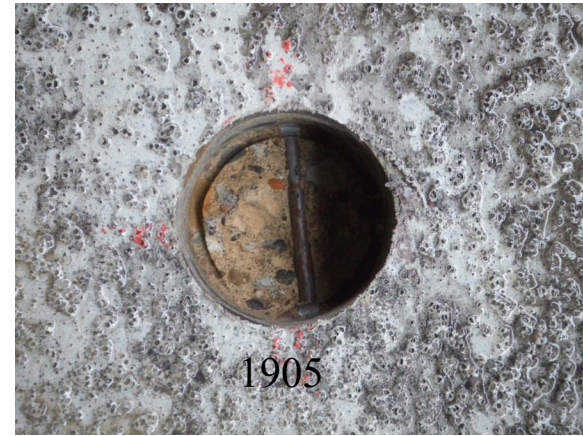
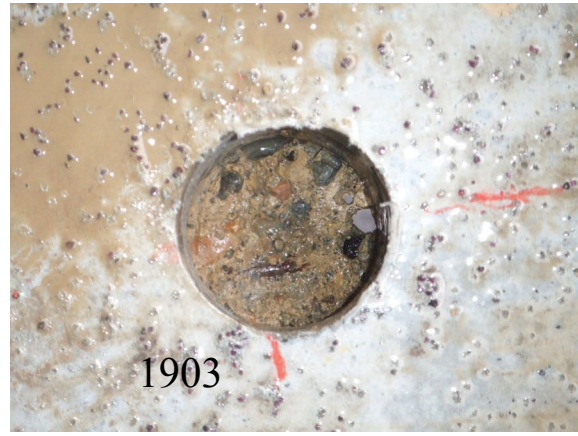
MAP #	PICT #	CRACK EROSION	CRACK & REBAR	EXP REPAIR	EXP PT	PREV. REPAIR	DIRECTION RUNNING	LENGTH	NOTES
	8 th floor	South				1891	800	2"	medium Rust / Good Concrete
	8 th floor	East Side				1892	801	2 1/4"	Clean / Good Concrete
	8 th floor	North Side				1893	800	2"	Very Light Rust / Good Concrete
	8 th floor	West Side				1894	779	1 3/4"	1/8 Rust / Good Concrete
	7 th floor	West Side				1895	797	1 1/2"	Clean / Perfect Rebar / Good Concrete
	7 th floor	South side				1896	796	2 1/4"	Clean / Perfect Rebar / Good Concrete
	7 th floor	East Side				1898	795	1 3/4"	Clean / Perfect Rebar / Good Concrete
	7 th floor	North Side				1900	793	2"	Light Rust
	6 th floor	West Side	#1			1901	792	1 1/2"	Very Corroded
	6 th floor	West Side	Column			1902	791	2 1/2"	Clean
	6 th floor	South side				1903	790	2 1/2"	Very Rusty
	6 th floor	East Side				1906	789	2 1/2"	Clean
	6 th floor	North Side	to 6 th floor			1907	797	2"	Clean (1907)
	5 th floor	West Side				1909	796	1 3/4"	Clean
	5 th floor	South Side				1911	784	1 1/2"	Light Rust
	5 th floor	East Side				1913	792	1 3/4"	Clean
	5 th floor	North Side				1915	790	2"	Clean
	4 th floor	West Side				1917	778	2"	Clean
	2 ^{1/2} floor	South Side				1919	774	2 1/2"	Light Rust
	4 th floor	East Side				1921	772	2"	Clean

VISUAL INSPECTION REPORT

MAP #	PICT #	CRACK EROSION	CRACK & REBAR	EXP REPAIR	EXP PT	PREV. REPAIR	DIRECTION RUNNING	LENGTH	NOTES
	4 th floor	North Side				1923	770	3 1/4"	Very Rusty











www.GPRDATA.com

Ground Penetrating Radar Experts

2580 Edgewater Drive, Eugene, OR 97401
Tel: 541-345-1075 Fax: 541-684-7865



www.GPRDATA.com

Ground Penetrating Radar Experts

2580 Edgewater Drive, Eugene, OR 97401
Tel: 541-345-1075 Fax: 541-684-7865



www.GPRDATA.com

Ground Penetrating Radar Experts

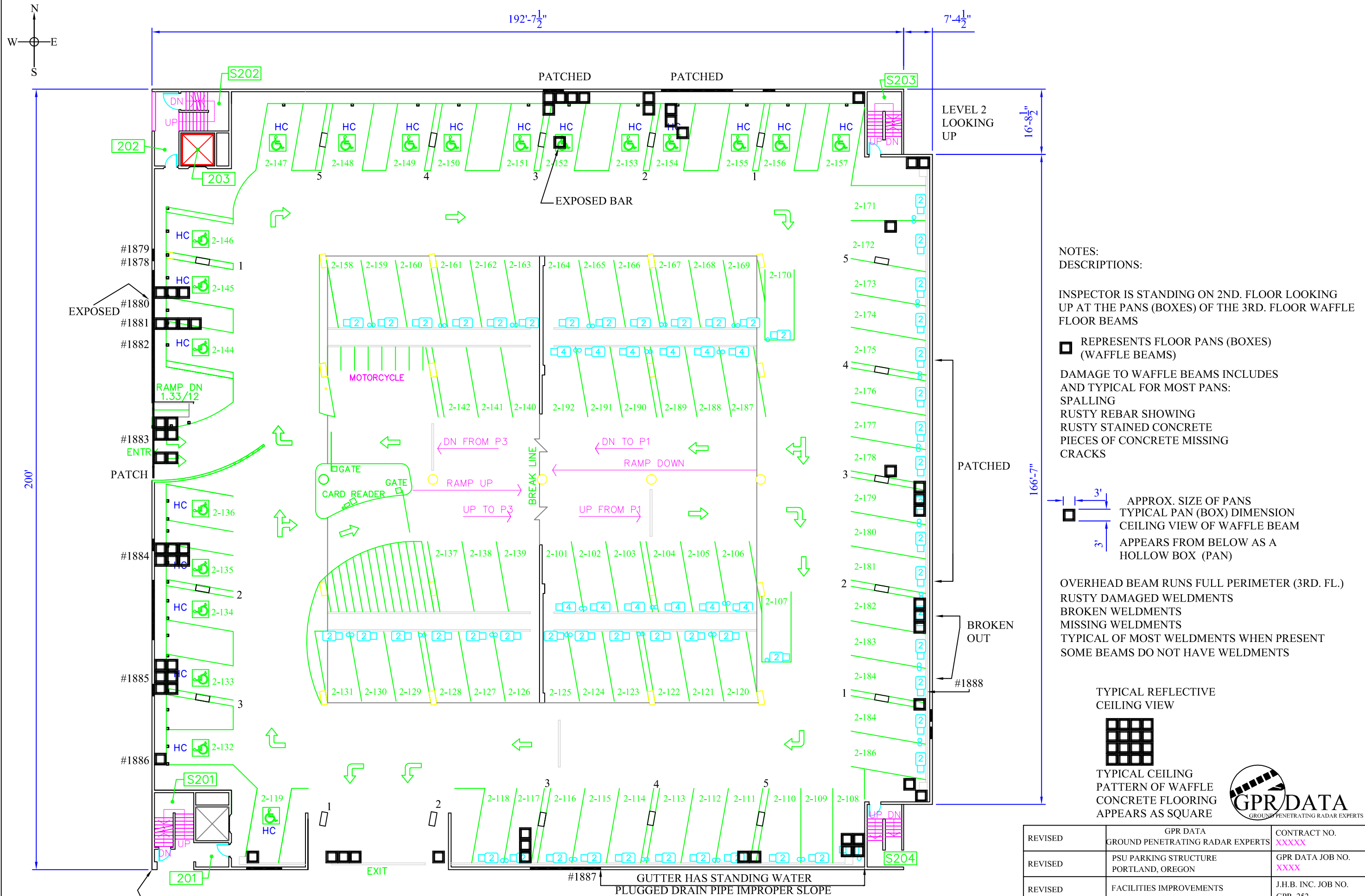
2580 Edgewater Drive, Eugene, OR 97401
Tel: 541-345-1075 Fax: 541-684-7865



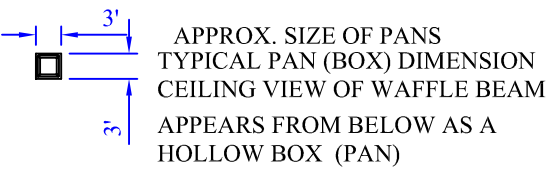
www.GPRDATA.com

Ground Penetrating Radar Experts

2580 Edgewater Drive, Eugene, OR 97401
Tel: 541-345-1075 Fax: 541-684-7865

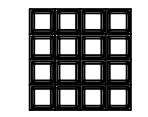


NOTES:
 DESCRIPTIONS:
 INSPECTOR IS STANDING ON 2ND. FLOOR LOOKING UP AT THE PANS (BOXES) OF THE 3RD. FLOOR WAFFLE FLOOR BEAMS
 ■ REPRESENTS FLOOR PANS (BOXES) (WAFFLE BEAMS)
 DAMAGE TO WAFFLE BEAMS INCLUDES AND TYPICAL FOR MOST PANS:
 SPALLING
 RUSTY REBAR SHOWING
 RUSTY STAINED CONCRETE
 PIECES OF CONCRETE MISSING
 CRACKS



OVERHEAD BEAM RUNS FULL PERIMETER (3RD. FL.)
 RUSTY DAMAGED WELDMENTS
 BROKEN WELDMENTS
 MISSING WELDMENTS
 TYPICAL OF MOST WELDMENTS WHEN PRESENT
 SOME BEAMS DO NOT HAVE WELDMENTS

TYPICAL REFLECTIVE CEILING VIEW



TYPICAL CEILING PATTERN OF WAFFLE CONCRETE FLOORING APPEARS AS SQUARE



REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE SECOND FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 1/17/12
DRAWN BY: JB	2 ND. FLOOR LOOKING UP AT 3 RD. FLOOR FLOOR INSPECTION DATA	DRAWING NO. GPR. S-2
CHK BY: ME		

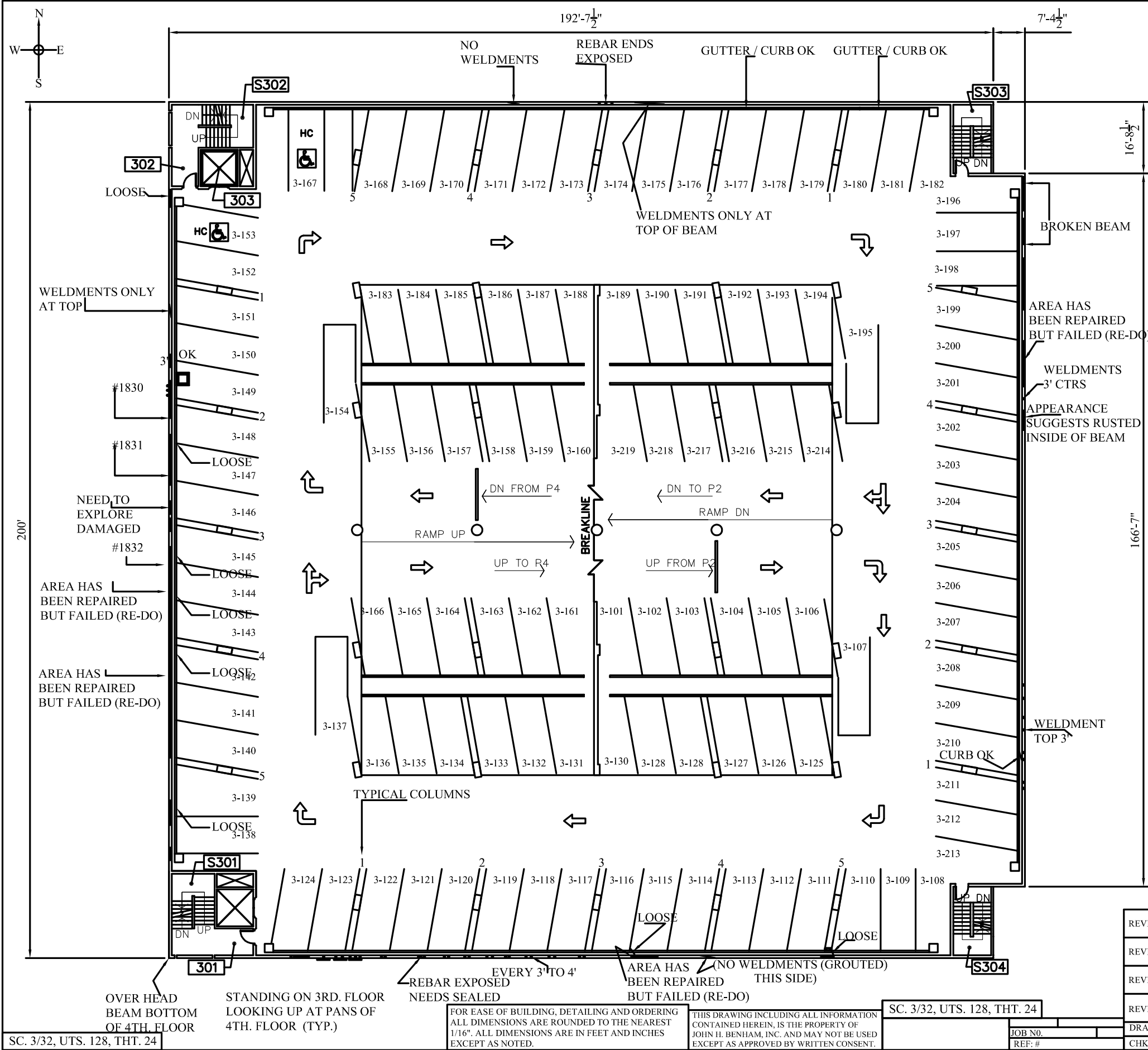
SC. 3/32, UTS. 128, THT. 24
 OVER HEAD BEAM BOTTOM OF 3RD. FLOOR
 STANDING ON 2ND. FLOOR LOOKING UP AT PANS OF 3RD. FLOOR (TYP.)

FOR EASE OF BUILDING, DETAILING AND ORDERING ALL DIMENSIONS ARE ROUNDED TO THE NEAREST 1/16". ALL DIMENSIONS ARE IN FEET AND INCHES EXCEPT AS NOTED.

THIS DRAWING INCLUDING ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF JOHN H. BENHAM, INC. AND MAY NOT BE USED EXCEPT AS APPROVED BY WRITTEN CONSENT.

SC. 3/32, UTS. 128, THT. 24

JOB NO.
REF: #



WELDMENTS SHOWING AT TOP OF BEAM ON N, W, E SIDES OF STRUCTURE NEED REPAIRED OR REPLACED. SOUTH SIDE LOOKS OK. THIS IS LOOKING UP TO 4TH. FLOOR.

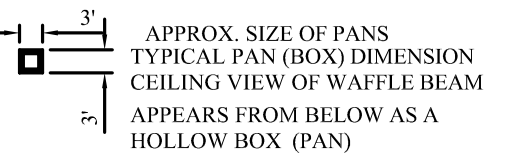
LOOSE = MEANING CONCRETE IS JUST HANGING THERE AND NEEDS TO BE REMOVED BEFORE THE PIECES FALL TO THE GROUND STRIKING PASSER BY'S. MANY AREAS ON ALL FLOORS NEED TO BE SCALED OF ALL LOOSE CONCRETE.

NOTES:
DESCRIPTIONS:

INSPECTOR IS STANDING ON 3RD. FLOOR LOOKING UP AT THE PANS (BOXES) OF THE 4TH. FLOOR WAFFLE FLOOR BEAMS

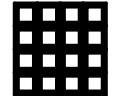
■ REPRESENTS FLOOR PANS (BOXES) (WAFFLE BEAMS)

DAMAGE TO WAFFLE BEAMS INCLUDES AND TYPICAL FOR MOST PANS:
SPALLING
RUSTY REBAR SHOWING
RUSTY STAINED CONCRETE
PIECES OF CONCRETE MISSING
CRACKS



OVERHEAD BEAM RUNS FULL PERIMETER (4TH. FL.)
RUSTY DAMAGED WELDMENTS
BROKEN WELDMENTS
MISSING WELDMENTS
TYPICAL OF MOST WELDMENTS WHEN PRESENT
SOME BEAMS DO NOT HAVE WELDMENTS

TYPICAL REFLECTIVE CEILING VIEW



TYPICAL CEILING PATTERN OF WAFFLE CONCRETE FLOORING APPEARS AS SQUARE



REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE THIRD FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/20/11
	DRAWN BY: JB	3 RD. FLOOR LOOKING UP AT 4TH. FLOOR FLOOR INSPECTION DATA
	CHK BY: ME	DRAWING NO. GPR. S-3

SC. 3/32, UTS. 128, THT. 24

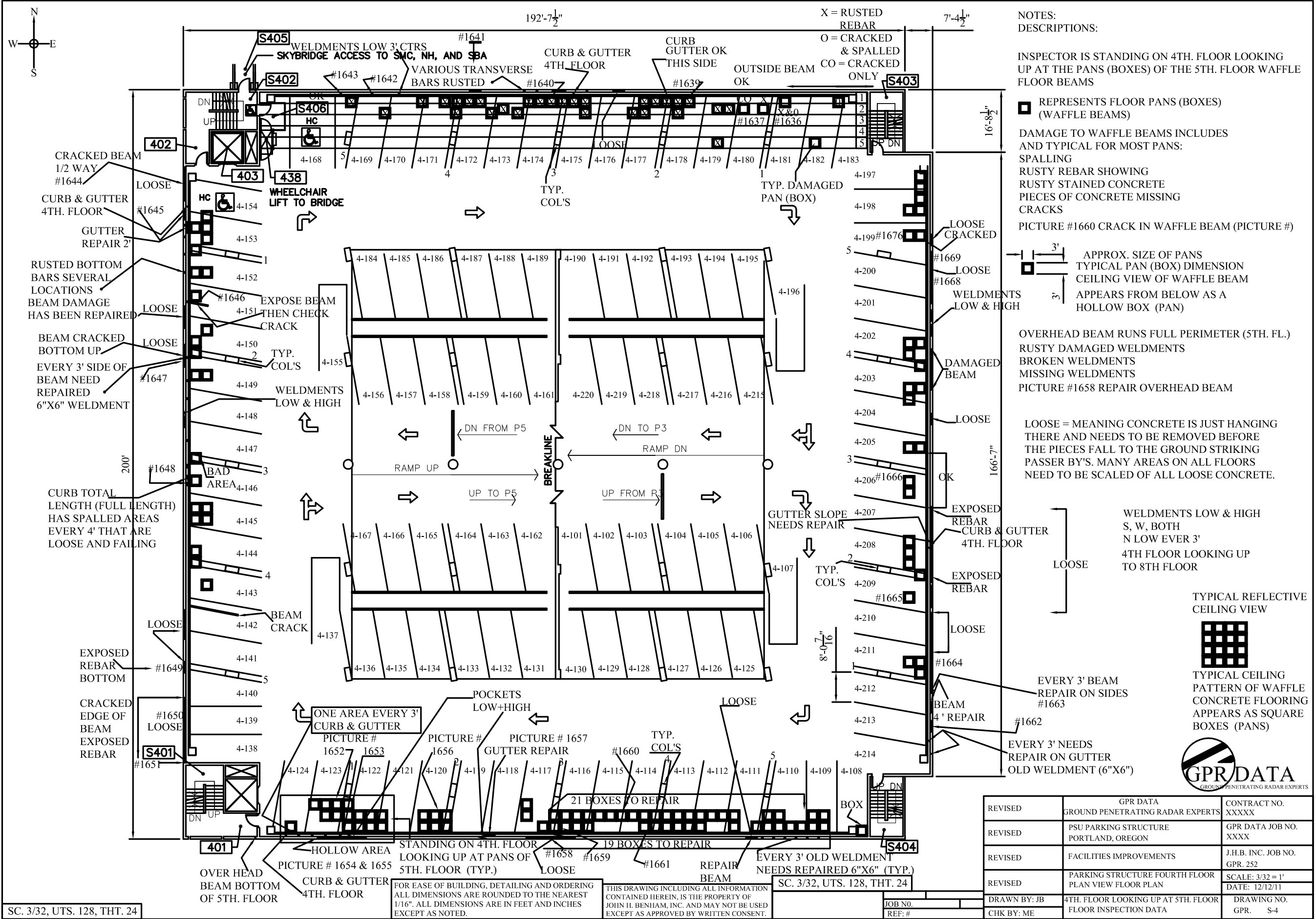
STANDING ON 3RD. FLOOR
LOOKING UP AT PANS OF
4TH. FLOOR (TYP.)

FOR EASE OF BUILDING, DETAILING AND ORDERING
ALL DIMENSIONS ARE ROUNDED TO THE NEAREST
1/16". ALL DIMENSIONS ARE IN FEET AND INCHES
EXCEPT AS NOTED.


THIS DRAWING INCLUDING ALL INFORMATION
CONTAINED HEREIN, IS THE PROPERTY OF
JOHN H. BENHAM, INC. AND MAY NOT BE USED
EXCEPT AS APPROVED BY WRITTEN CONSENT.



SC. 3/32, UTS. 128, THT. 24

JOB NO.
REF: #



NOTES:
 DESCRIPTIONS:
 INSPECTOR IS STANDING ON 4TH. FLOOR LOOKING UP AT THE PANS (BOXES) OF THE 5TH. FLOOR WAFFLE FLOOR BEAMS

 REPRESENTS FLOOR PANS (BOXES) (WAFFLE BEAMS)
 DAMAGE TO WAFFLE BEAMS INCLUDES AND TYPICAL FOR MOST PANS:
 SPALLING
 RUSTY REBAR SHOWING
 RUSTY STAINED CONCRETE
 PIECES OF CONCRETE MISSING
 CRACKS
 PICTURE #1660 CRACK IN WAFFLE BEAM (PICTURE #)

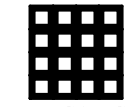
 APPROX. SIZE OF PANS
 TYPICAL PAN (BOX) DIMENSION
 CEILING VIEW OF WAFFLE BEAM
 APPEARS FROM BELOW AS A HOLLOW BOX (PAN)

OVERHEAD BEAM RUNS FULL PERIMETER (5TH. FL.)
 RUSTY DAMAGED WELDMENTS
 BROKEN WELDMENTS
 MISSING WELDMENTS
 PICTURE #1658 REPAIR OVERHEAD BEAM

LOOSE = MEANING CONCRETE IS JUST HANGING THERE AND NEEDS TO BE REMOVED BEFORE THE PIECES FALL TO THE GROUND STRIKING PASSER BY'S. MANY AREAS ON ALL FLOORS NEED TO BE SCALED OF ALL LOOSE CONCRETE.

WELDMENTS LOW & HIGH
 S, W, BOTH
 N LOW EVER 3'
 4TH FLOOR LOOKING UP TO 8TH FLOOR

TYPICAL REFLECTIVE CEILING VIEW



TYPICAL CEILING PATTERN OF WAFFLE CONCRETE FLOORING APPEARS AS SQUARE BOXES (PANS)

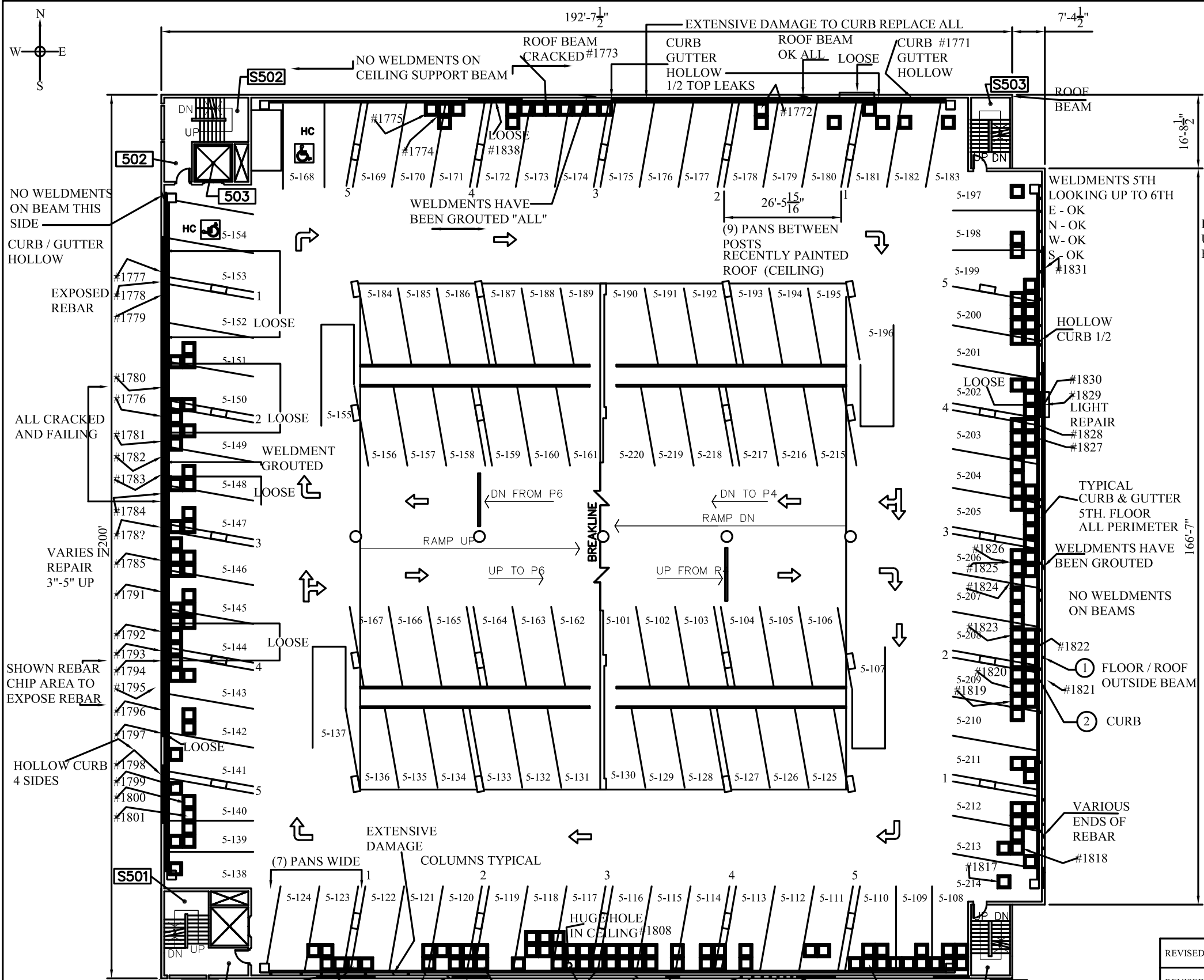
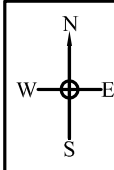


REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE FOURTH FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/12/11
DRAWN BY: JB	4TH. FLOOR LOOKING UP AT 5TH. FLOOR FLOOR INSPECTION DATA	DRAWING NO. GPR. S-4
CHK BY: ME		

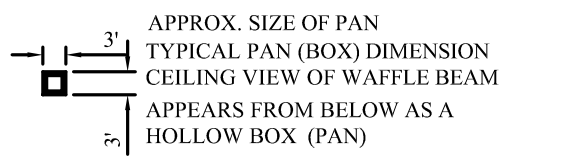
SC. 3/32, UTS. 128, THT. 24

FOR EASE OF BUILDING, DETAILING AND ORDERING ALL DIMENSIONS ARE ROUNDED TO THE NEAREST 1/16". ALL DIMENSIONS ARE IN FEET AND INCHES EXCEPT AS NOTED.
 THIS DRAWING INCLUDING ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF JOHN H. BENHAM, INC. AND MAY NOT BE USED EXCEPT AS APPROVED BY WRITTEN CONSENT.

JOB NO. _____
 REF: # _____

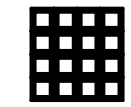


☐ REPRESENTS FLOOR PANS (BOXES)
 (WAFFLE BEAMS)
 DAMAGE TO WAFFLE BEAMS INCLUDES
 AND TYPICAL FOR MOST PANS:
 SPALLING
 RUSTY REBAR SHOWING
 RUSTY STAINED CONCRETE
 PIECES OF CONCRETE MISSING
 CRACKS



OVERHEAD BEAM RUNS FULL PERIMETER (6TH. FL.)
 RUSTY DAMAGED WELDMENTS
 BROKEN WELDMENTS
 MISSING WELDMENTS
 TYPICAL OF MOST WELDMENTS WHEN PRESENT
 SOME BEAMS DO NOT HAVE WELDMENTS

TYPICAL REFLECTIVE
 CEILING VIEW



TYPICAL CEILING
 PATTERN OF WAFFLE
 CONCRETE FLOORING
 APPEARS AS SQUARE



REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE FIFTH FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/14/11
	DRAWN BY: JB	DRAWING NO. GPR. S-5
	CHK BY: ME	

OVER HEAD
 BEAM BOTTOM
 OF 6TH. FLOOR

STANDING ON 5TH. FLOOR
 LOOKING UP AT PANS OF
 6TH. FLOOR (TYP.)

CURB &
 GUTTER HAS
 HOLLOW AREAS
 NEEDS REPLACED

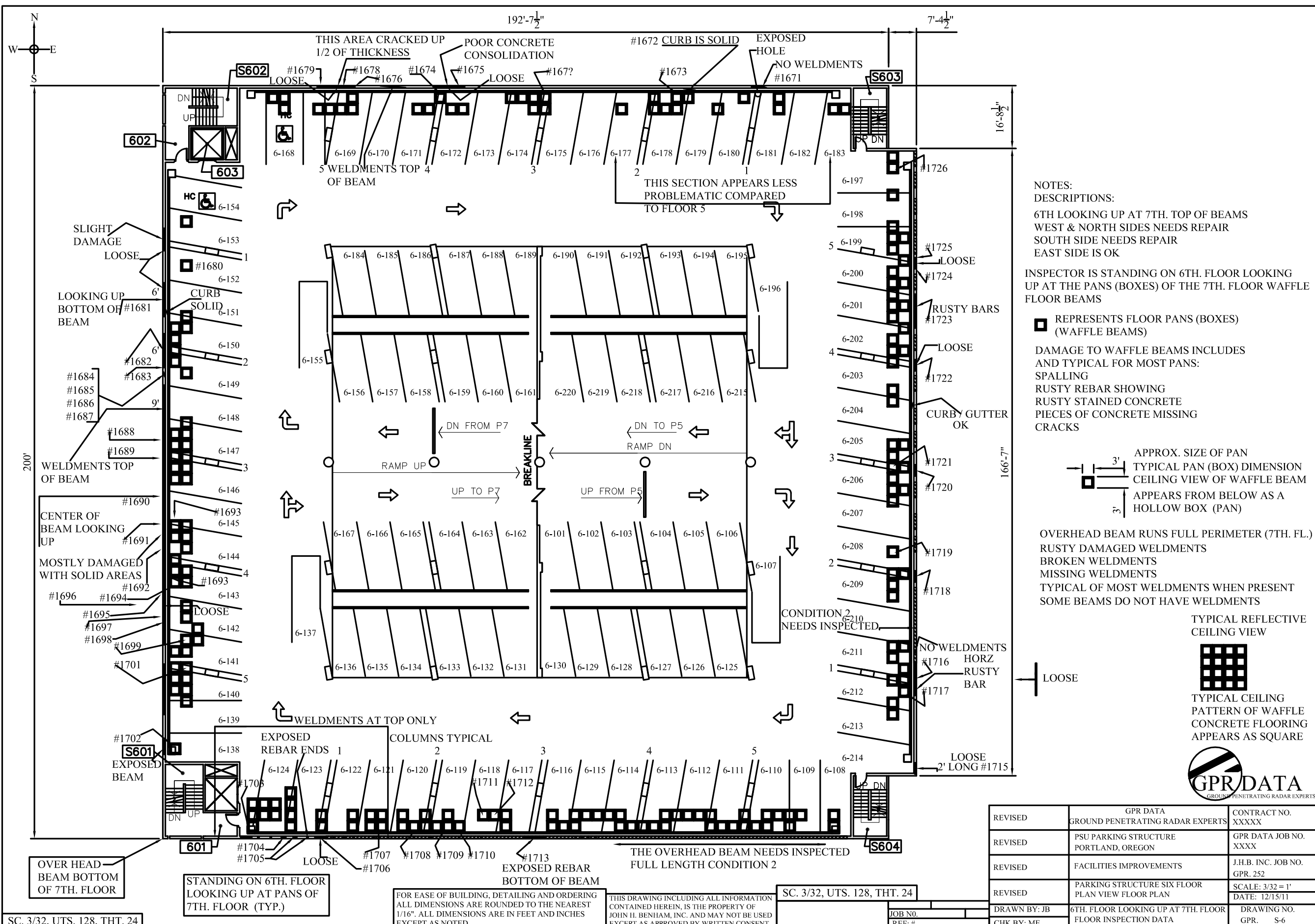
FOR EASE OF BUILDING, DETAILING AND ORDERING
 ALL DIMENSIONS ARE ROUNDED TO THE NEAREST
 1/16". ALL DIMENSIONS ARE IN FEET AND INCHES
 EXCEPT AS NOTED.

THIS DRAWING INCLUDING ALL INFORMATION
 CONTAINED HEREIN, IS THE PROPERTY OF
 JOHN H. BENHAM, INC. AND MAY NOT BE USED
 EXCEPT AS APPROVED BY WRITTEN CONSENT.

SC. 3/32, UTS. 128, THT. 24

JOB NO.
 REF: #

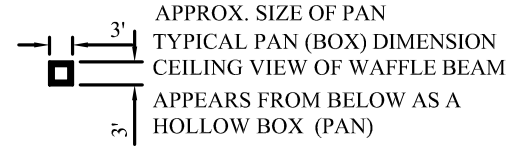
SC. 3/32, UTS. 128, THT. 24



NOTES:
 DESCRIPTIONS:
 6TH LOOKING UP AT 7TH. TOP OF BEAMS
 WEST & NORTH SIDES NEEDS REPAIR
 SOUTH SIDE NEEDS REPAIR
 EAST SIDE IS OK

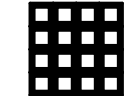
INSPECTOR IS STANDING ON 6TH. FLOOR LOOKING UP AT THE PANS (BOXES) OF THE 7TH. FLOOR WAFFLE FLOOR BEAMS

- REPRESENTS FLOOR PANS (BOXES) (WAFFLE BEAMS)
- DAMAGE TO WAFFLE BEAMS INCLUDES AND TYPICAL FOR MOST PANS:
 SPALLING
 RUSTY REBAR SHOWING
 RUSTY STAINED CONCRETE
 PIECES OF CONCRETE MISSING
 CRACKS



- OVERHEAD BEAM RUNS FULL PERIMETER (7TH. FL.)
- RUSTY DAMAGED WELDMENTS
- BROKEN WELDMENTS
- MISSING WELDMENTS
- TYPICAL OF MOST WELDMENTS WHEN PRESENT
- SOME BEAMS DO NOT HAVE WELDMENTS

TYPICAL REFLECTIVE CEILING VIEW



TYPICAL CEILING PATTERN OF WAFFLE CONCRETE FLOORING APPEARS AS SQUARE



REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE SIX FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/15/11
DRAWN BY: JB	6TH. FLOOR LOOKING UP AT 7TH. FLOOR FLOOR INSPECTION DATA	DRAWING NO. GPR. S-6
CHK BY: ME		

SC. 3/32, UTS. 128, THT. 24

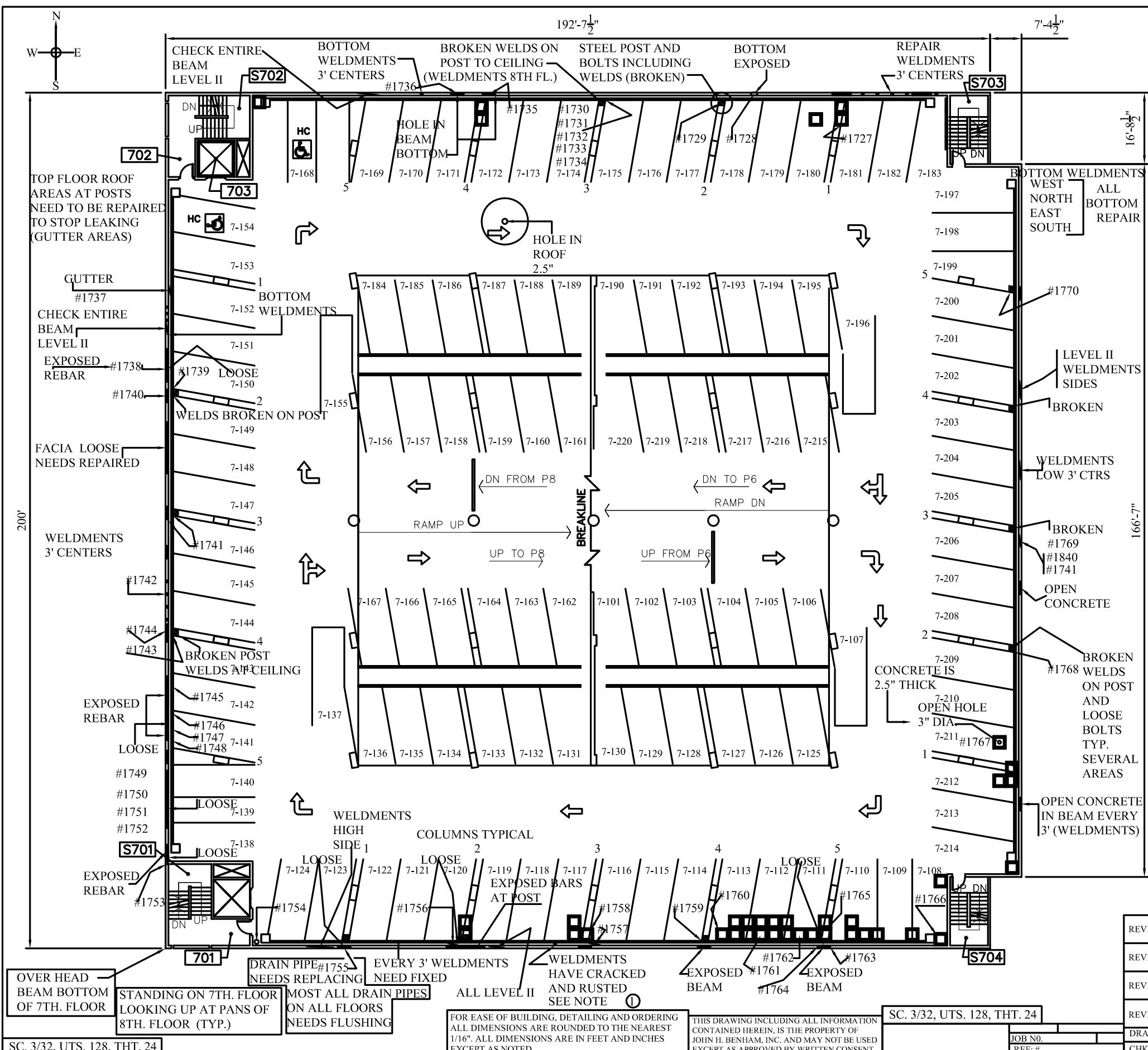
STANDING ON 6TH. FLOOR
LOOKING UP AT PANS OF
7TH. FLOOR (TYP.)

FOR EASE OF BUILDING, DETAILING AND ORDERING
ALL DIMENSIONS ARE ROUNDED TO THE NEAREST
1/16". ALL DIMENSIONS ARE IN FEET AND INCHES
EXCEPT AS NOTED.

THIS DRAWING INCLUDING ALL INFORMATION
CONTAINED HEREIN, IS THE PROPERTY OF
JOHN H. BENHAM, INC. AND MAY NOT BE USED
EXCEPT AS APPROVED BY WRITTEN CONSENT.

SC. 3/32, UTS. 128, THT. 24

JOB NO.
REF. #



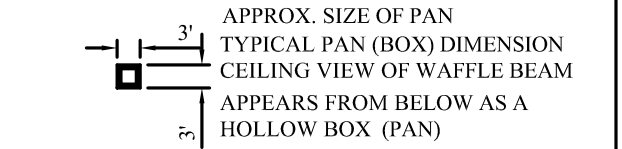
NOTE: ①
 IT APPEARS THAT SOME WELDMENTS ARE EXPANDING AND CONTRACTING: RUSTING EXPANDING AND CONTRACTING DESTROYING THE BEAMS AROUND THE PERIMETER PROBLEM EXISTING ON ALL FLOORS

THE WAFFLE PAN BEAMS NEED TO BE ALLOWED TO EXPAND IN LENGTH: BEAMS COULD BE TEARING THEM SELVES APART (ALSO CONTRACTING)

LIFE TO STRUCTURE IS DEPENDENT UPON CORRECT DRAINAGE. IT APPEARS THAT GUTTERS DO NOT HAVE ENOUGH SLOPE AND DOWN SPOUTS ARE PLUGGED CAUSING WATER TO OVER FLOW AND MIGRATE INTO CRACKS ATTACKING REBAR ALSO COULD BE SOME FREEZE AND THAW.

NOTES: DESCRIPTIONS:
 INSPECTOR IS STANDING ON 6TH. FLOOR LOOKING UP AT THE PANS (BOXES) OF THE 7TH. FLOOR WAFFLE FLOOR BEAMS

■ REPRESENTS FLOOR PANS (BOXES) (WAFFLE BEAMS)
 DAMAGE TO WAFFLE BEAMS INCLUDES AND TYPICAL FOR MOST PANS:
 SPALLING
 RUSTY REBAR SHOWING
 RUSTY STAINED CONCRETE
 PIECES OF CONCRETE MISSING
 CRACKS



OVERHEAD BEAM RUNS FULL PERIMETER (7TH. FL.)
 RUSTY DAMAGED WELDMENTS
 BROKEN WELDMENTS
 MISSING WELDMENTS
 TYPICAL OF MOST WELDMENTS WHEN PRESENT
 SOME BEAMS DO NOT HAVE WELDMENTS

TYPICAL REFLECTIVE CEILING VIEW

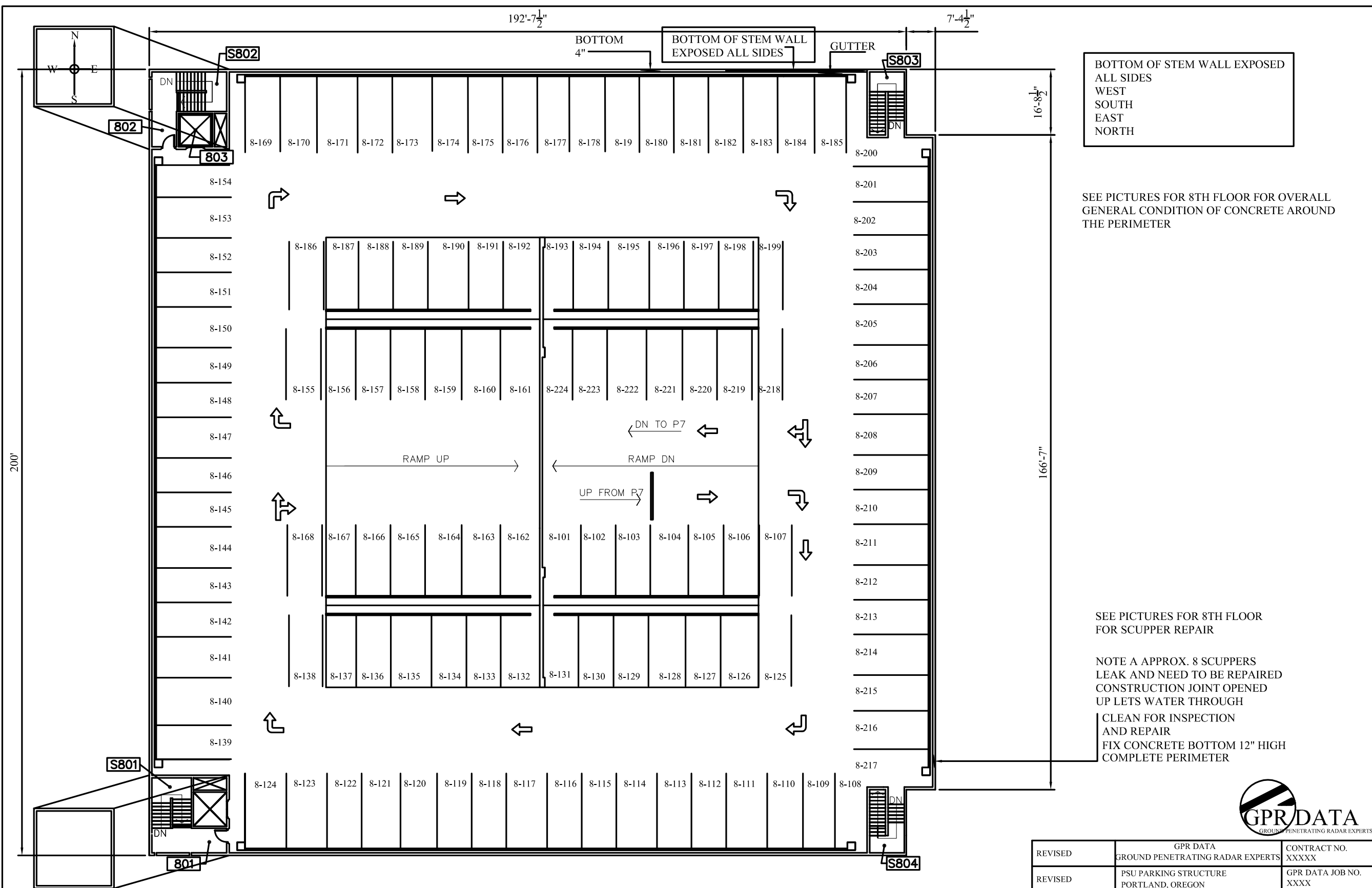


OVER HEAD BEAM BOTTOM OF 7TH. FLOOR
 STANDING ON 7TH. FLOOR LOOKING UP AT PANS OF 8TH. FLOOR (TYP.)
 DRAIN PIPE #1755 NEEDS REPLACING
 MOST ALL DRAIN PIPES ON ALL FLOORS NEEDS FLUSHING
 EVERY 3' WELDMENTS NEED FIXED
 ALL LEVEL II

WELDMENTS HAVE CRACKED AND RUSTED SEE NOTE ①
 EXPOSED BEAM #1761
 EXPOSED BEAM #1764
 EXPOSED REBAR #1753
 EXPOSED REBAR #1746
 EXPOSED REBAR #1747
 EXPOSED REBAR #1748
 EXPOSED REBAR #1749
 EXPOSED REBAR #1750
 EXPOSED REBAR #1751
 EXPOSED REBAR #1752
 EXPOSED REBAR #1753
 EXPOSED REBAR #1754
 EXPOSED REBAR #1755
 EXPOSED REBAR #1756
 EXPOSED REBAR #1757
 EXPOSED REBAR #1758
 EXPOSED REBAR #1759
 EXPOSED REBAR #1760
 EXPOSED REBAR #1761
 EXPOSED REBAR #1762
 EXPOSED REBAR #1763
 EXPOSED REBAR #1764
 EXPOSED REBAR #1765
 EXPOSED REBAR #1766

SC. 3/32, UTS. 128, THT. 24
 JOB NO. _____
 REF: # _____

REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE SEVENTH FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/17/11
REVISED	7TH. FLOOR LOOKING UP AT 8TH. FLOOR FLOOR INSPECTION DATA	DRAWING NO. GPR. S-7



BOTTOM OF STEM WALL EXPOSED ALL SIDES
WEST
SOUTH
EAST
NORTH

SEE PICTURES FOR 8TH FLOOR FOR OVERALL GENERAL CONDITION OF CONCRETE AROUND THE PERIMETER

SEE PICTURES FOR 8TH FLOOR FOR SCUPPER REPAIR

NOTE A APPROX. 8 SCUPPERS LEAK AND NEED TO BE REPAIRED
CONSTRUCTION JOINT OPENED UP LETS WATER THROUGH
CLEAN FOR INSPECTION AND REPAIR
FIX CONCRETE BOTTOM 12" HIGH COMPLETE PERIMETER



REVISED	GPR DATA GROUND PENETRATING RADAR EXPERTS	CONTRACT NO. XXXXX
REVISED	PSU PARKING STRUCTURE PORTLAND, OREGON	GPR DATA JOB NO. XXXX
REVISED	FACILITIES IMPROVEMENTS	J.H.B. INC. JOB NO. GPR. 252
REVISED	PARKING STRUCTURE EIGHTH FLOOR PLAN VIEW FLOOR PLAN	SCALE: 3/32 = 1' DATE: 12/17/11
	DRAWN BY: JB	DRAWING NO. GPR. S-8
	CHK BY: ME	

SC. 3/32, UTS. 128, THT. 24

FOR EASE OF BUILDING, DETAILING AND ORDERING ALL DIMENSIONS ARE ROUNDED TO THE NEAREST 1/16". ALL DIMENSIONS ARE IN FEET AND INCHES EXCEPT AS NOTED.

THIS DRAWING INCLUDING ALL INFORMATION CONTAINED HEREIN, IS THE PROPERTY OF JOHN H. BENHAM, INC. AND MAY NOT BE USED EXCEPT AS APPROVED BY WRITTEN CONSENT.

SC. 3/32, UTS. 128, THT. 24

JOB NO.
REF: #



1829



1829 RS



1830



1831



1832



1833



1834

THIRD FLOOR PHOTOS (SEE PLAN S-3 FOR LOCATION)



1636



1637



1638



1639



1640



1641



1642



1643

FOURTH FLOOR PHOTOS (SEE PLAN S-4 FOR LOCATION)



1644



1645



1646



1647



1648



1649



1650



1651

FOURTH FLOOR PHOTOS (SEE PLAN S-4 FOR LOCATION)



1652



1653



1654



1655



1656



1657



1658



1659

FOURTH FLOOR PHOTOS (SEE PLAN S-4 FOR LOCATION)



1660



1661



1662



1663



1664



1665



1666



1667

FOURTH FLOOR PHOTOS (SEE PLAN S-4 FOR LOCATION)



1668



1669



1670

FOURTH FLOOR PHOTOS (SEE PLAN S-4 FOR LOCATION)



1771



1772



1773



1774



1775



1776



1777



1778



1779



1780



1781



1782

FIFTH FLOOR PHOTOS (SEE PLAN S-5 FOR LOCATION)

c:\Users\EricW\Desktop\GPR PHOTO SHEETS\GPR PHOTOS S-5-1.docx



1783



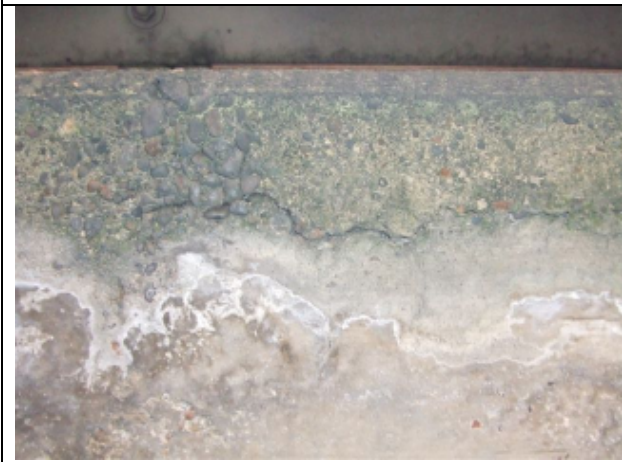
1784



1785



1786



1787



1788



1789



1790



1791



1792



1793



1794

FIFTH FLOOR PHOTOS (SEE PLAN S-5 FOR LOCATION)

c:\Users\EricW\Desktop\GPR PHOTO SHEETS\GPR PHOTOS S-5-2.docx



1795



1796



1797



1798



1799



1800



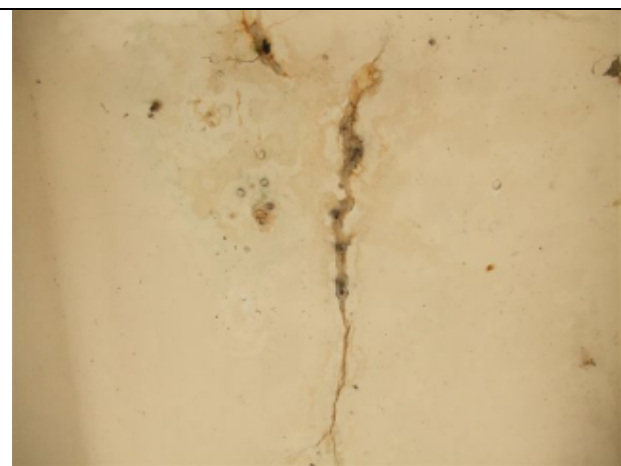
1801



1802



1803



1804



1805



1806

FIFTH FLOOR PHOTOS (SEE PLAN S-5 FOR LOCATION)



1807



1808



1809



1810



1811



1812



1813



1814



1816



1817



1818



1819

FIFTH FLOOR PHOTOS (SEE PLAN S-5 FOR LOCATION)

c:\Users\EricW\Desktop\GPR PHOTO SHEETS\GPR PHOTOS S-5-4.docx



1820



1821



1822

FIFTH FLOOR PHOTOS (SEE PLAN S-5 FOR LOCATION)

c:\Users\EricW\Desktop\GPR PHOTO SHEETS\GPR PHOTOS S-5-5.docx



1671



1672



1673



1674



1675



1676



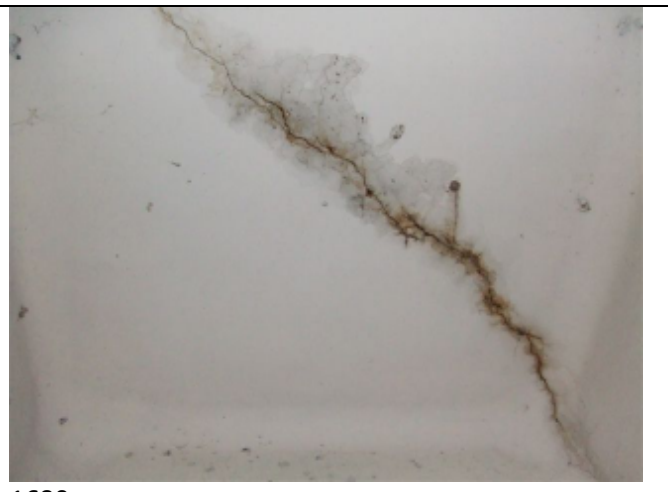
1677



1678



1679



1680



1681



1682



1683



1684



1685



1686



1687



1688



1689



1690



1691



1692







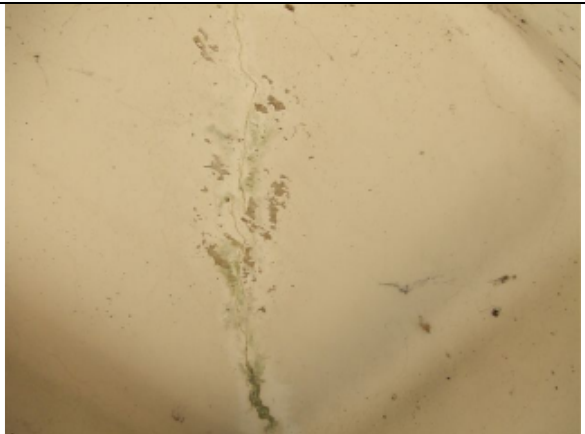


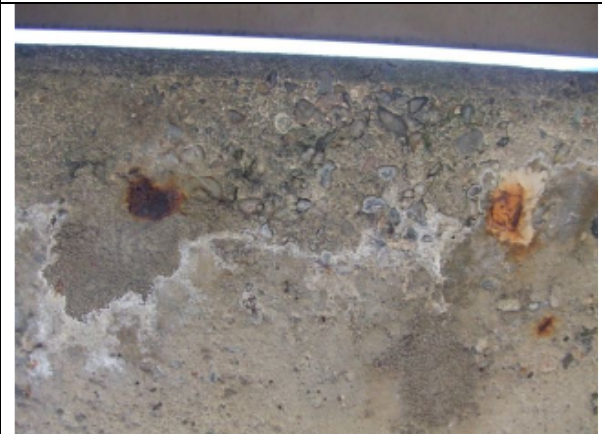


1693



1694

SIXTH FLOOR PHOTOS (SEE PLAN S-6 FOR LOCATION)

 <p>1695</p>	<p>PHOTO DELETED</p>	 <p>1697</p>	 <p>1698</p>
 <p>1699</p>	<p>PHOTO DELETED</p>	 <p>1701</p>	 <p>1702</p>
 <p>1703</p>	 <p>1704</p>	 <p>1705</p>	 <p>1706</p>

SIXTH FLOOR PHOTOS (SEE PLAN S-6 FOR LOCATION)



1707



1708



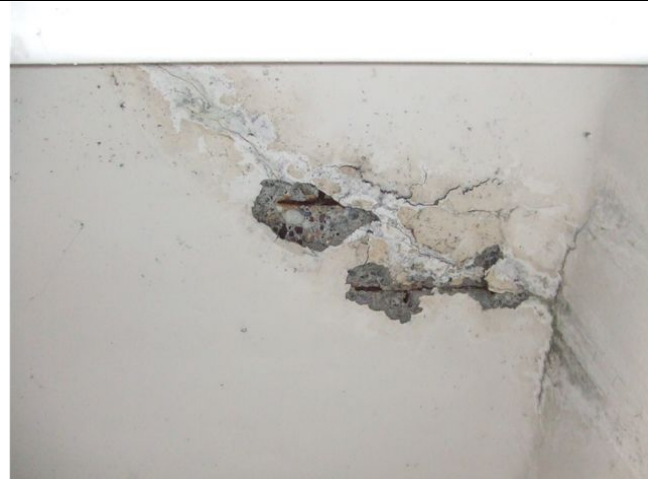
1709



1710



1711



1712



1713



1714



1715



1716



1717



1718

SIXTH FLOOR PHOTOS (SEE PLAN S-6 FOR LOCATION)



1719



1720



1721



1722



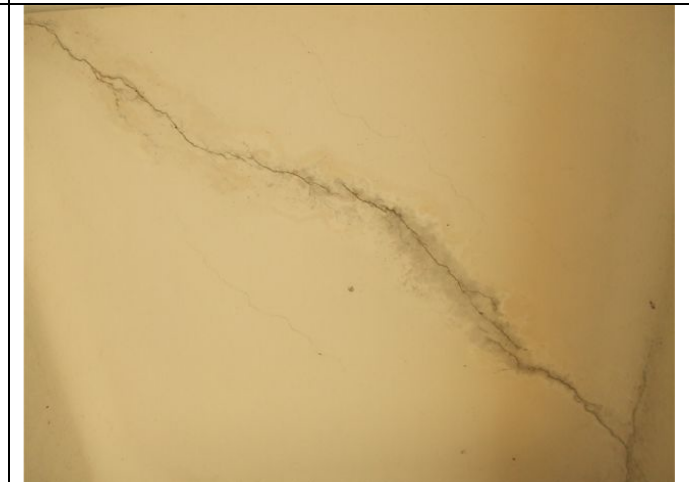
1723



1724



1725








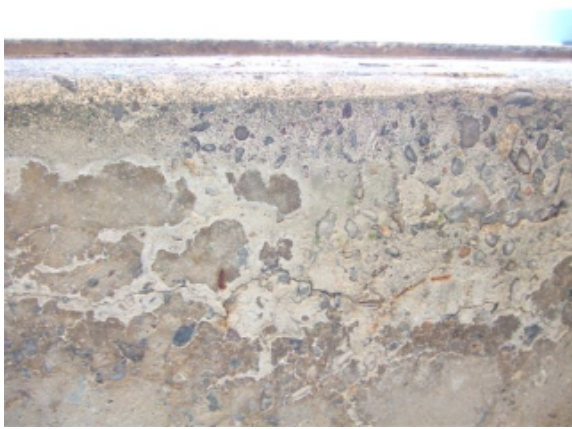

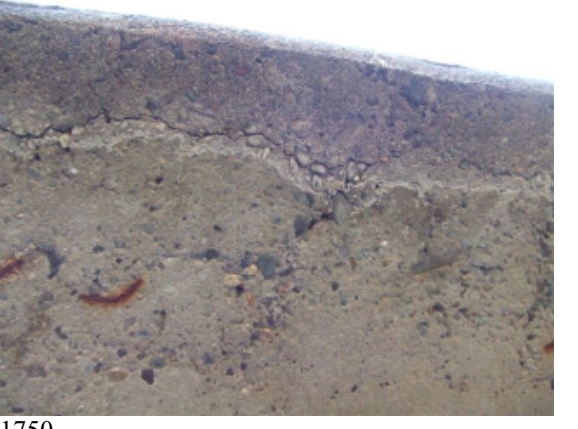
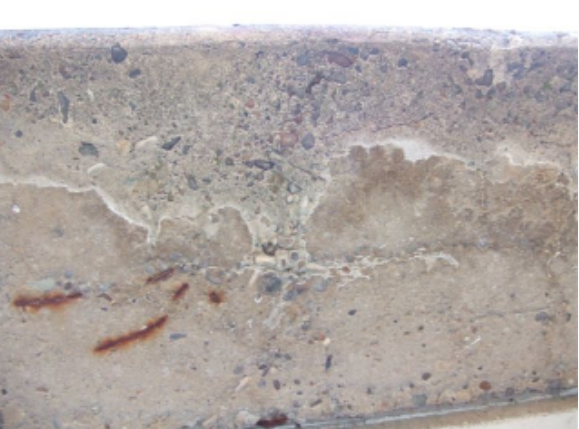


1726

SIXTH FLOOR PHOTOS (SEE PLAN S-6 FOR LOCATION)

 <p>1728</p>	 <p>1729</p>	 <p>1730</p>	<p>PHOTO DELETED</p>
<p>PHOTO DELETED</p>	<p>PHOTO DELETED</p>	 <p>1734</p>	 <p>1735</p>
 <p>1736</p>	 <p>1737</p>	 <p>1738</p>	 <p>1739</p>

SEVENTH FLOOR PHOTOS (SEE PLAN S-7 FOR LOCATION)

 <p>1740</p>	 <p>1741</p>	 <p>1742</p>	<p>PHOTO DELETED</p>
 <p>1744</p>	 <p>1745</p>	 <p>1746</p>	 <p>1747</p>
 <p>1748</p>	 <p>1748</p>	 <p>1750</p>	 <p>1751</p>

SEVENTH FLOOR PHOTOS (SEE PLAN S-7 FOR LOCATION)



1752



1753



1754



1755



1756



1757



1758



1759



1760



1761



1762



1763



1764



1765



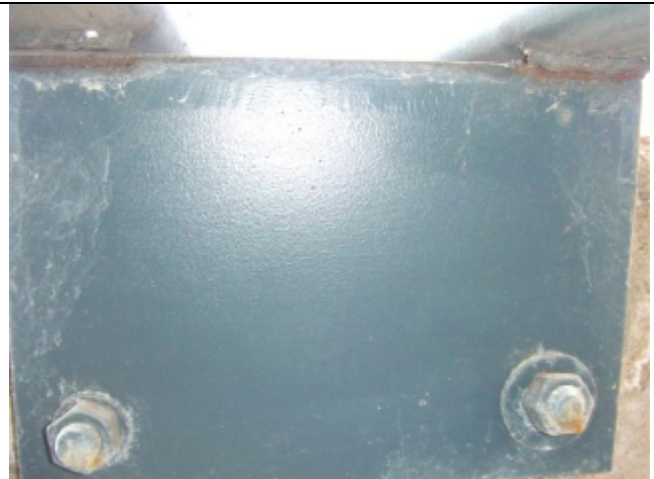
1766



1767



1768



1769



1770



SEVENTH FLOOR PHOTOS (SEE PLAN S-7 FOR LOCATION)



0238



0239



0240



0241



0242



0243



0244



0245



0246



0247



0248



0249

EIGHTH FLOOR PHOTOS (SEE PLAN S-8 FOR LOCATION)



0251



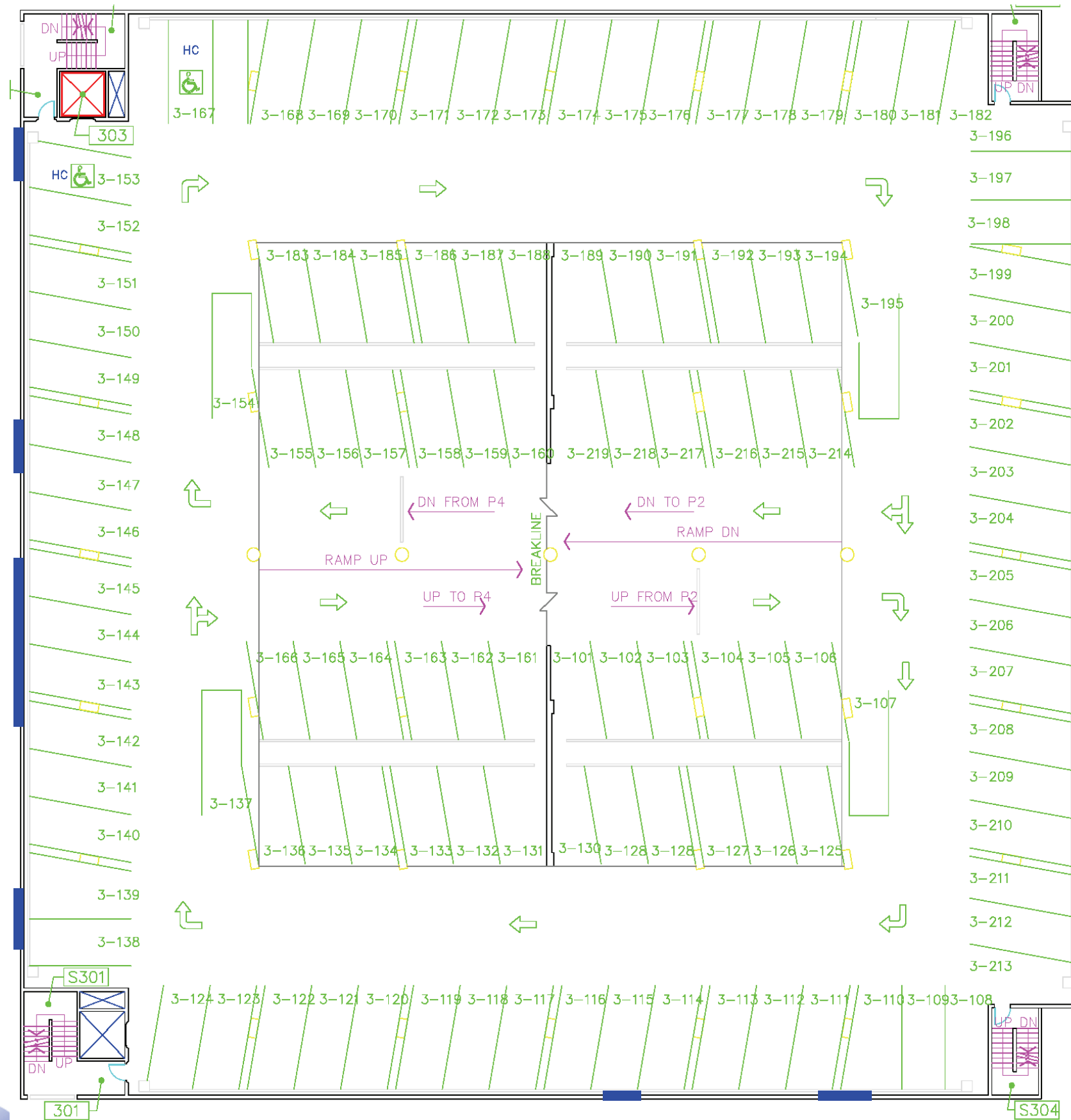
0252

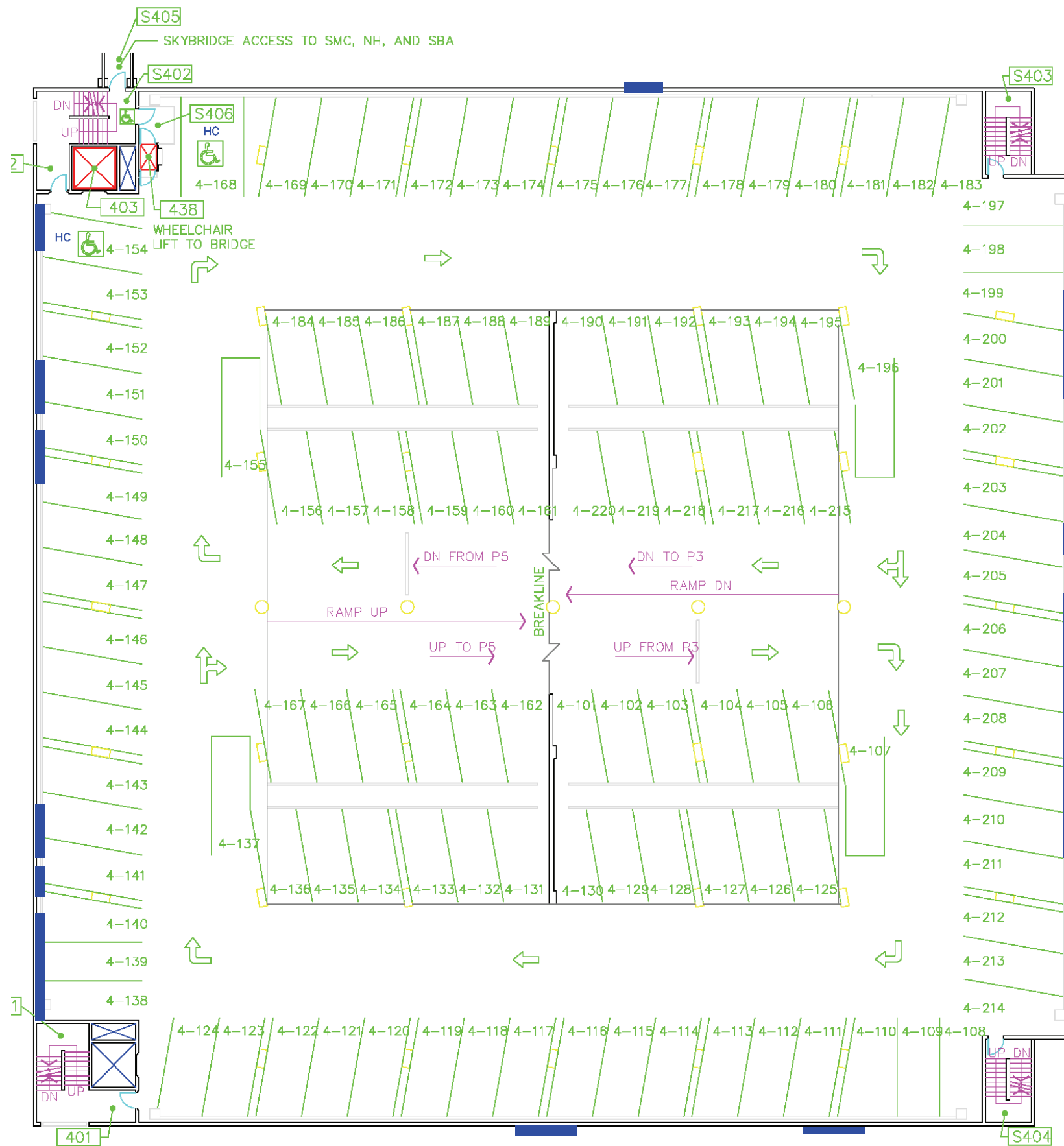


0253

EIGHTH FLOOR PHOTOS (SEE PLAN S-8 FOR LOCATION)

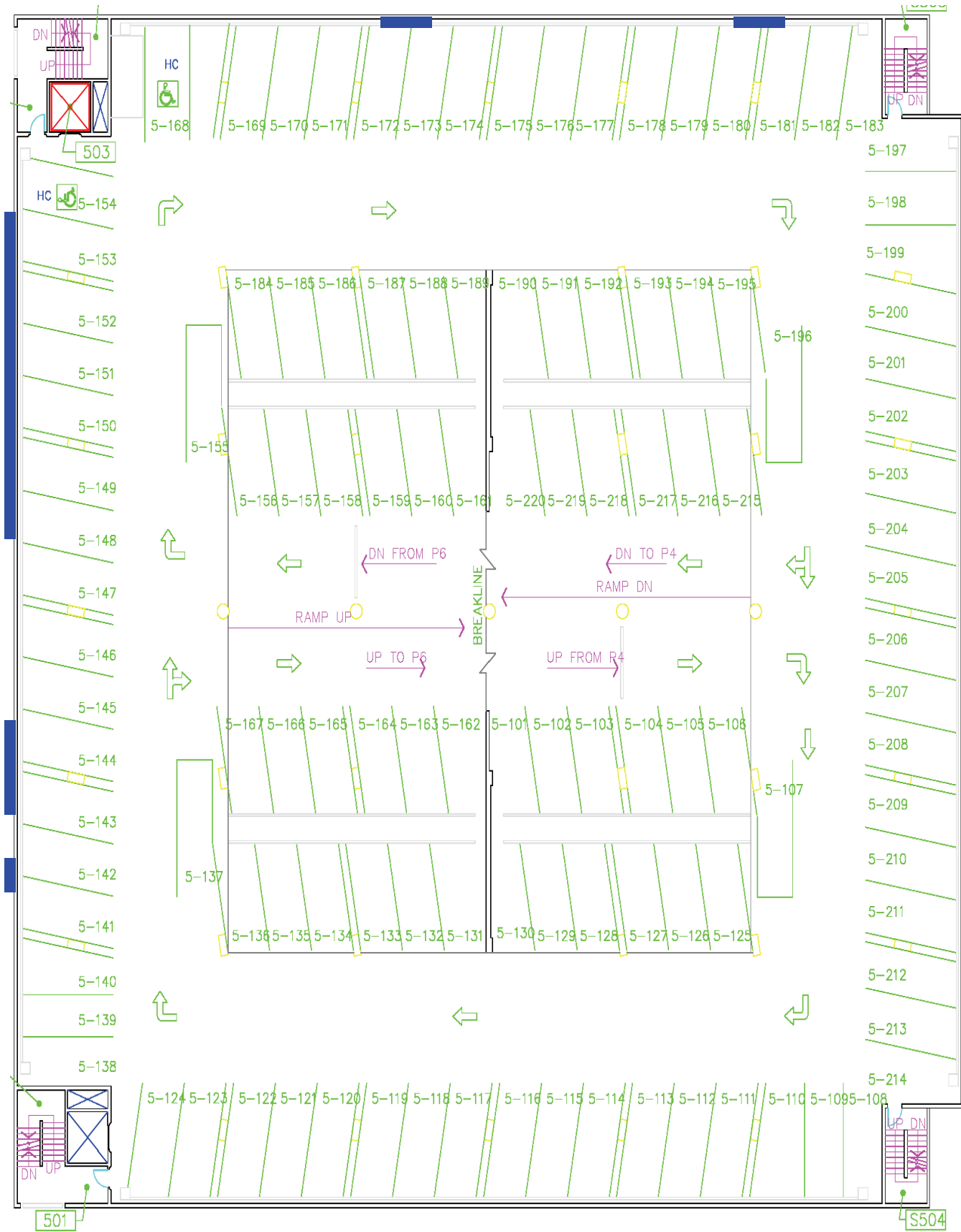
3 RD FLOOR LOOKING UP TO 4TH FLOOR BEAM

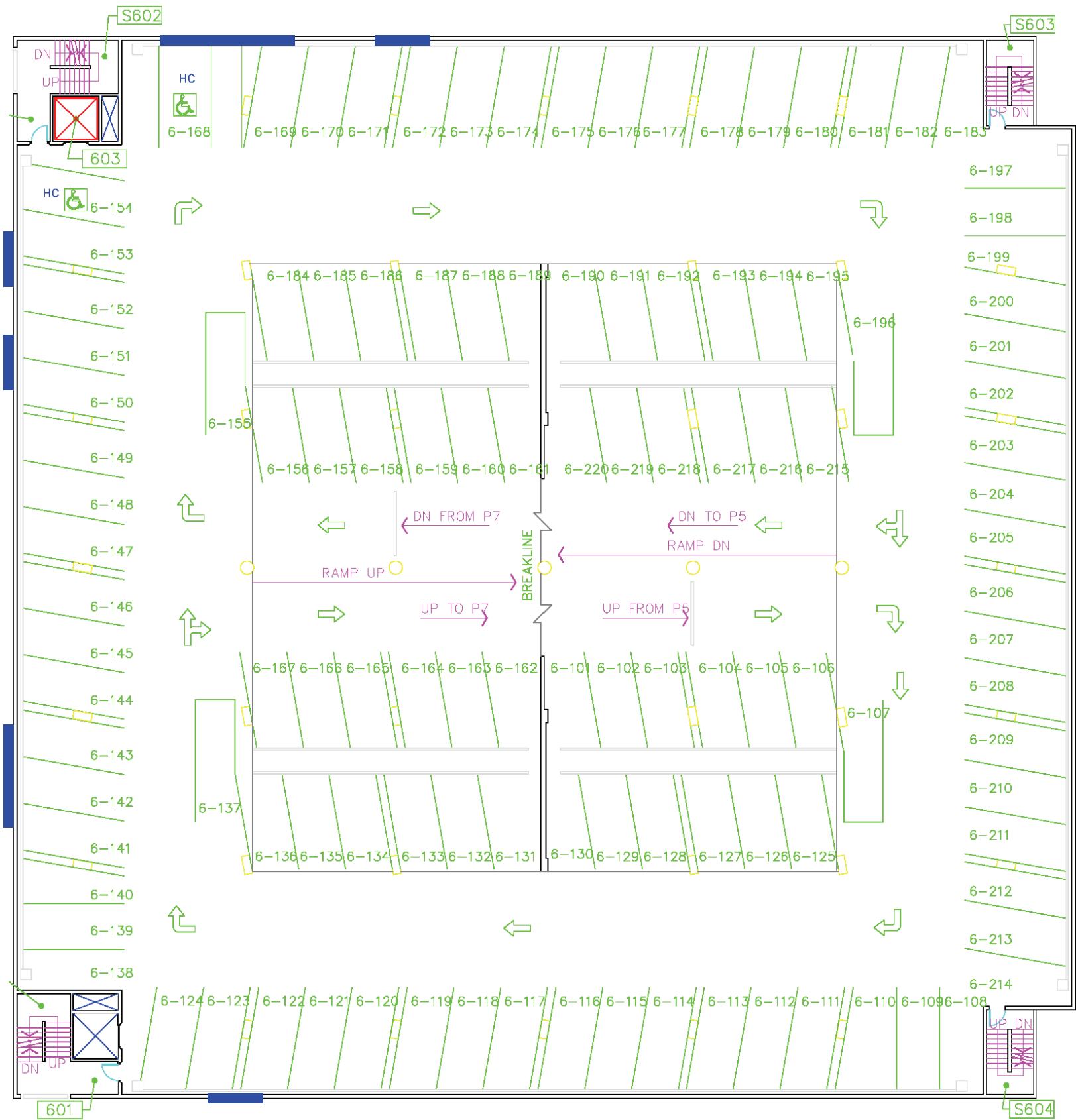




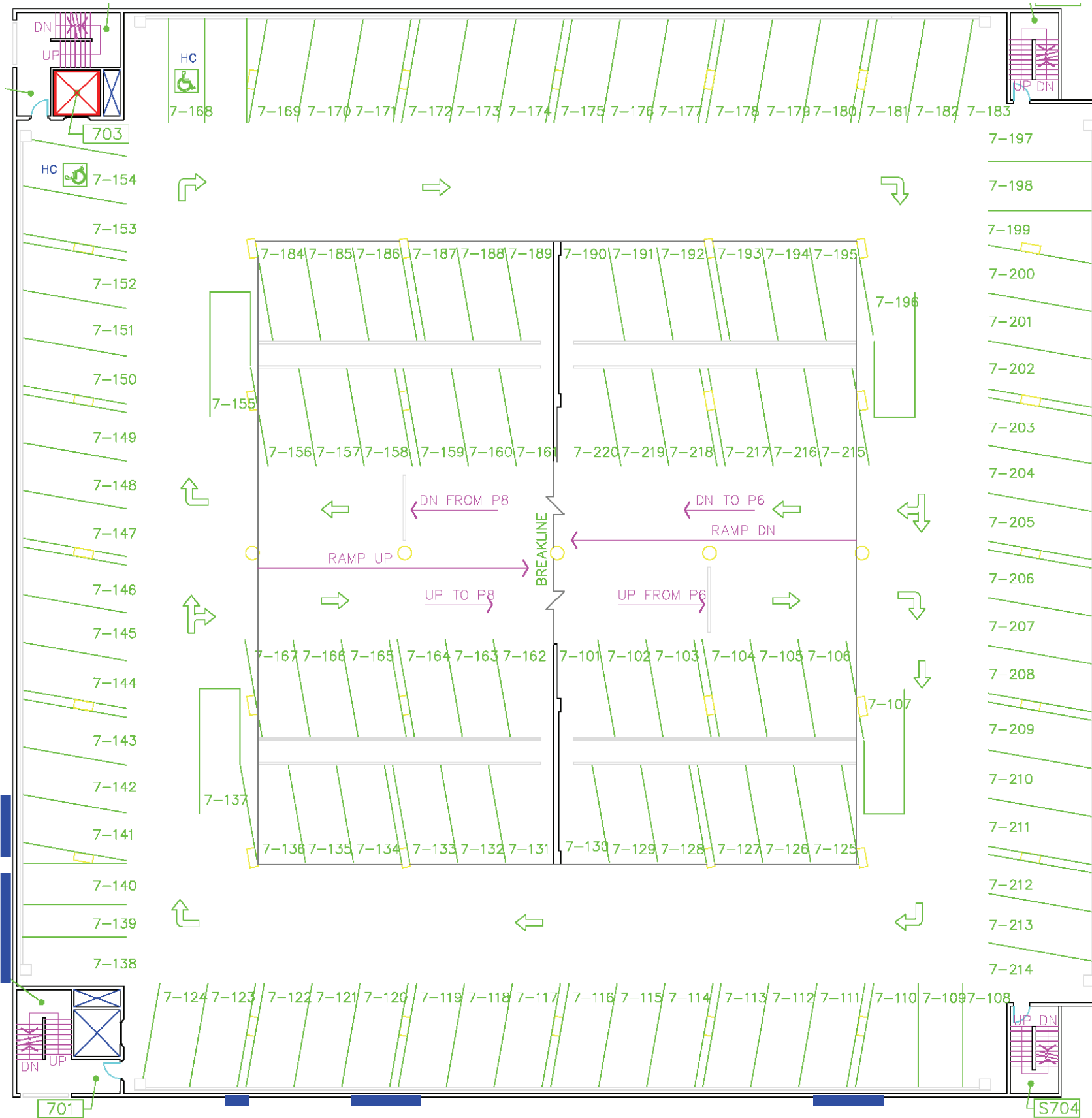
4TH FLOOR LOOKING UP TO 5TH FLOOR BEAM

5 TH FLOOR LOOKING UP TO 6TH FLOOR BEAM





6 TH FLOOR LOOKING UP TO 7TH FLOOR BEAM



7 TH FLOOR LOOKING UP TO 8TH FLOOR BEAM

