

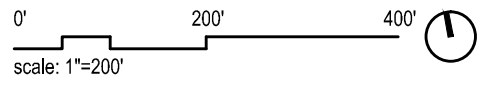
LEGEND

- EXISTING WATER
- PROPOSED IMPROVEMENTS



07/27/2015

Figure F - 8



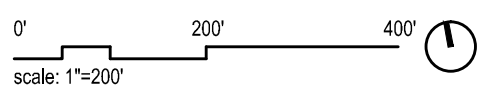
**WATER DISTRIBUTION
CONCEPTUAL PLAN**

**MIT KENDALL SQUARE
SoMa PROJECT**



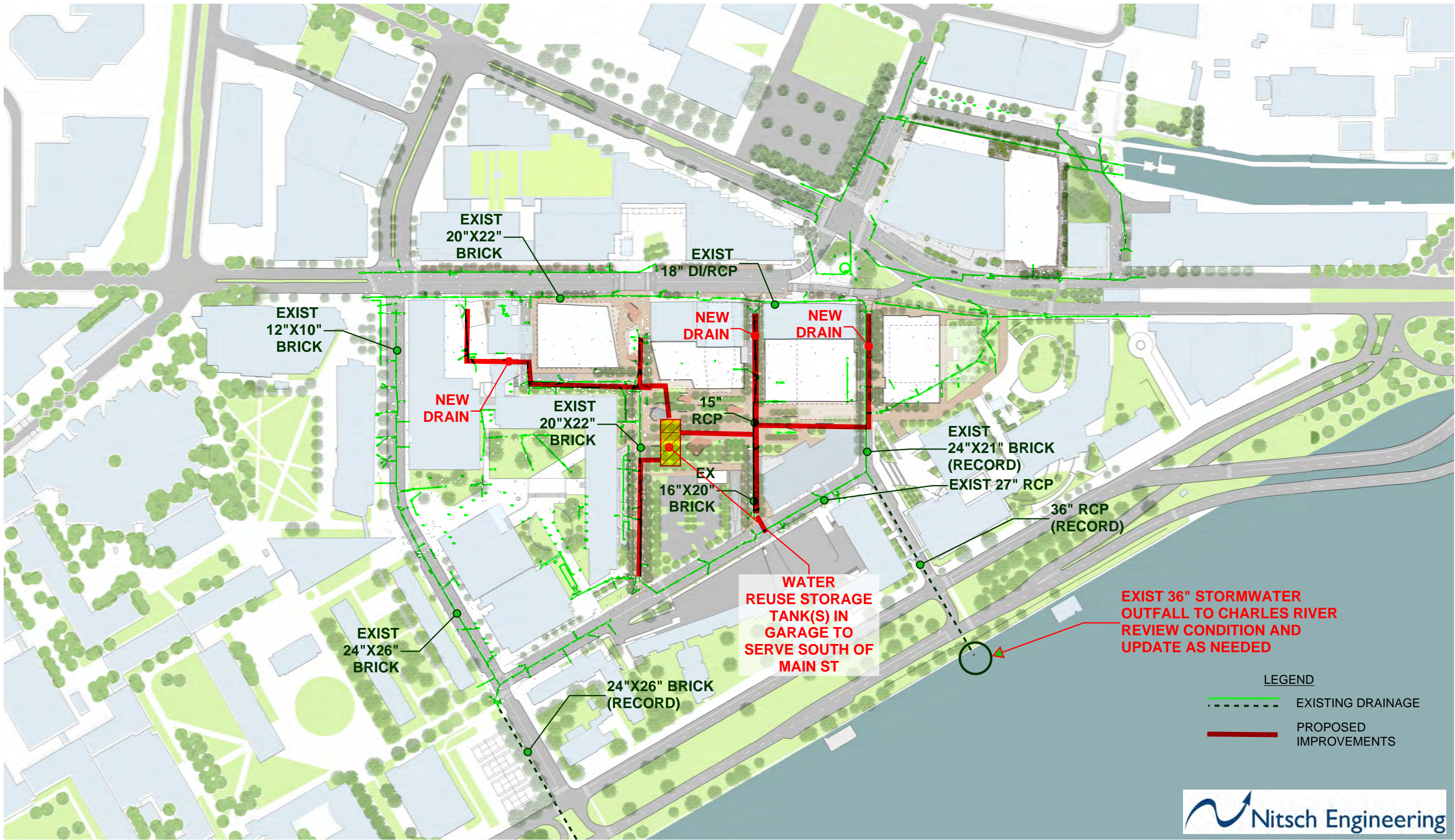
07/27/2015

Figure F - 9



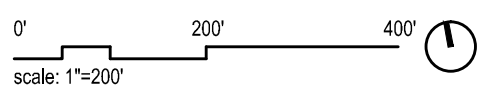
**DRAINAGE
EXISTING CONDITIONS**

**MIT KENDALL SQUARE
SoMa PROJECT**



07/27/2015

Figure F - 10



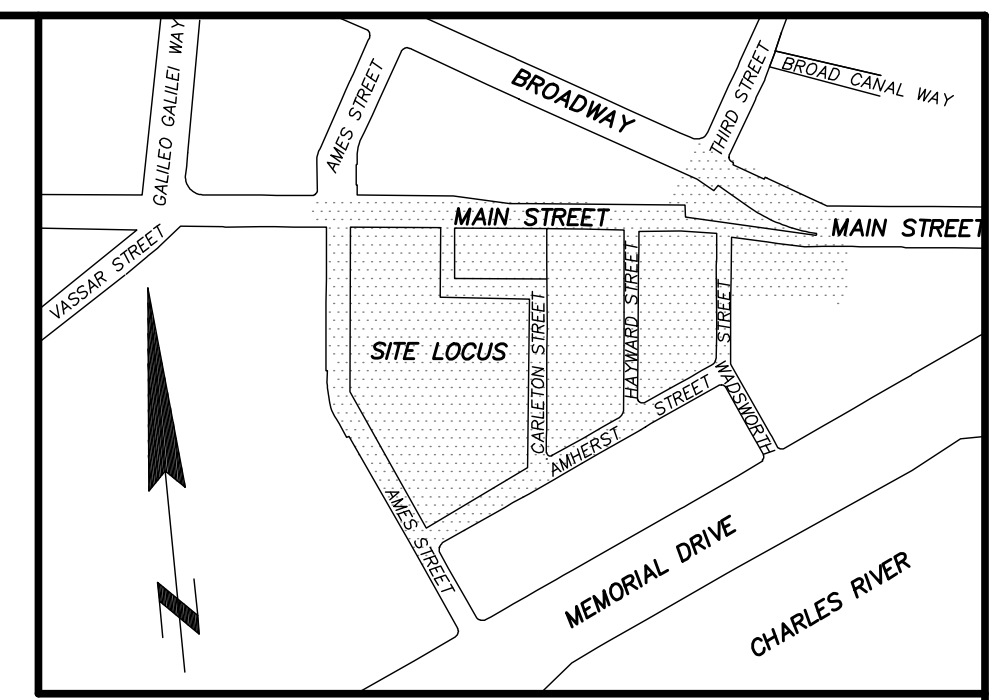
**DRAINAGE
CONCEPTUAL PLAN**



**MIT KENDALL SQUARE
SoMa PROJECT**

MIT Kendall Square - SoMa Project

SoMa Existing Conditions Survey

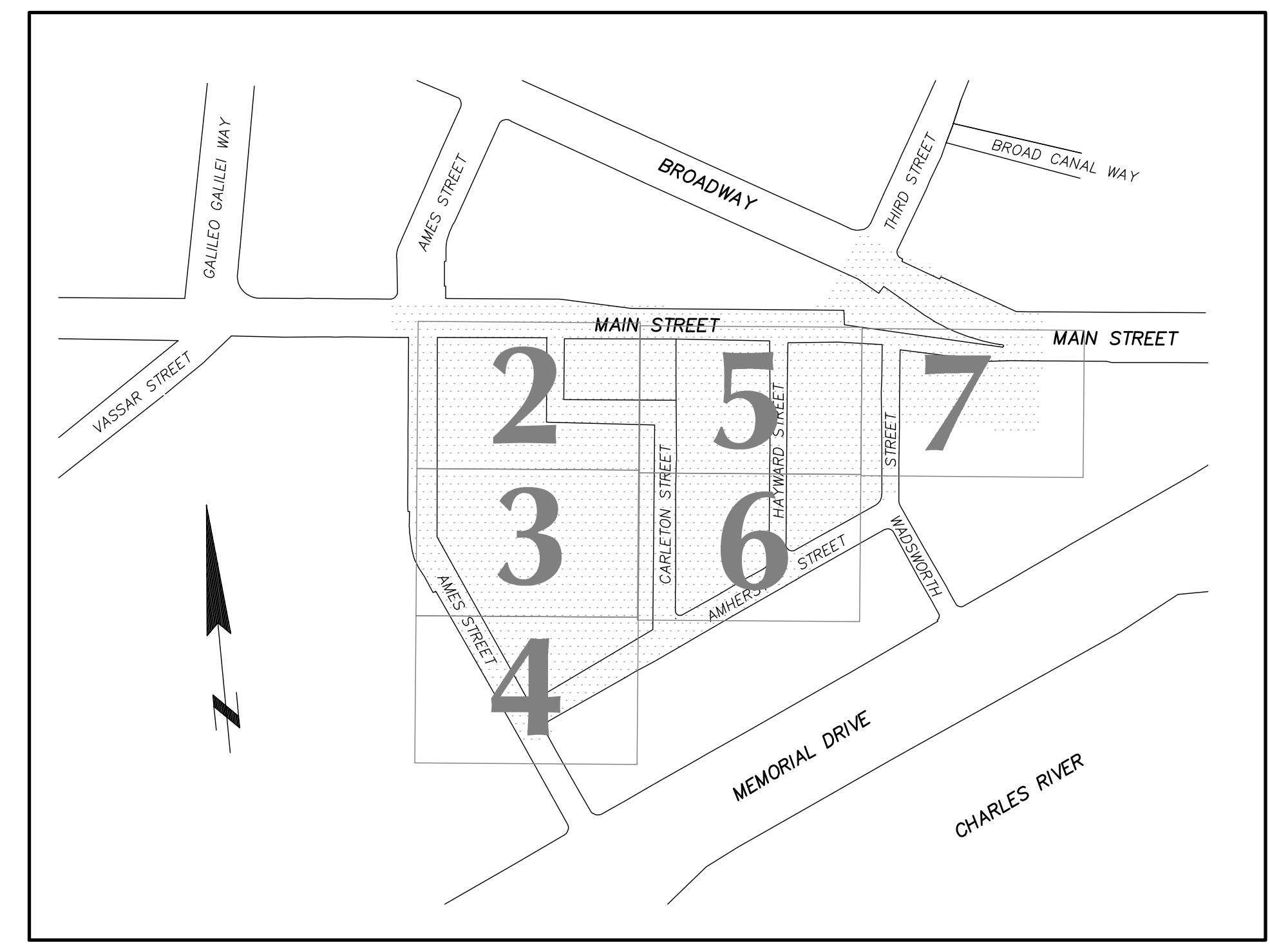


LOCUS MAP NOT TO SCALE

LEGEND

- | | |
|---|---|
| <ul style="list-style-type: none"> ○ SEWER MANHOLE ○ DRAIN MANHOLE ○ ELECTRIC MANHOLE ○ WATER MANHOLE ○ TELEPHONE MANHOLE ○ CABLE TV MANHOLE ○ MBTA MANHOLE ○ STEAM MANHOLE ○ MANHOLE ○ HYDRANT ○ WATER SHUT OFF/WATER GATE ○ GAS SHUT OFF/GAS GATE ○ CATCH BASIN ○ ROUND CATCH BASIN ○ D-FRAME CATCH BASIN ○ GUY WIRE ○ TRAFFIC CONTROL BOX ○ TRAFFIC SIGNAL ○ GUY POLE ○ UTILITY POLE ○ LIGHT POLE ○ WALK LIGHT ○ HANDHOLE ○ GP GATE POST ○ SO SHUT OFF (UNKNOWN) ○ BOLLARD ○ MAIL BOX ○ SIGN ○ AD AREA DRAIN ○ PM PARKING METER ○ FF FUEL FILL ○ FP FLAG POLE ○ ECB EMERGENCY CALL BOX ○ CO CLEAN OUT ○ CC COAL CHUTE ○ FA FIRE ALARM ○ PIV POST INDICATOR VALVE ○ RD ROOF DRAIN ○ IRRIGATION CONTROL VALVE ○ BOUND FOUND ○ OBSERVATION WELL ○ SECURITY CAMERA ○ STAND PIPE/SIAMESE CONNECTION ○ SPIGOT ○ FLOOD LIGHT ○ UTILITY POLE W/ LIGHT ○ HANDICAP PARKING SPACE ○ DECIDUOUS TREE ○ CONIFEROUS TREE ○ C CABLE TELEVISION ○ CR CONDENSATE RETURN ○ CS COMBINED SEWER ○ CWS CHILLED WATER SERVICE ○ CWR CHILLED WATER RETURN ○ D DRAIN ○ E ELECTRIC ○ G GAS ○ L STREET LIGHTING ○ M MBTA ○ OHW OVERHEAD WIRES ○ S SEWER ○ ST STEAM ○ T TELEPHONE ○ W WATER ○ 12"Ø(CI) PIPE SIZE AND MATERIAL ○ DI DUCTILE IRON ○ CI CAST IRON ○ FO FIBEROPTICS ○ HDPE HIGH DENSITY POLYETHYLENE ○ PTC PIPE TYPE CABLE ○ PVC POLY VINYL CHLORIDE ○ RCP REINFORCED CONCRETE PIPE ○ VCP VITRIFIED CLAY PIPE ○ X METAL FENCE ○ WOOD FENCE ○ GUARD RAIL ○ DSC DIGSAFE CABLE ○ DSD DIGSAFE DRAIN ○ DSE DIGSAFE ELECTRIC ○ DSG DIGSAFE GAS ○ DSS DIGSAFE SEWER ○ DSST DIGSAFE STEAM ○ DST DIGSAFE TELEPHONE ○ DSW DIGSAFE WATER | <ul style="list-style-type: none"> AC AIR CONDITIONING UNIT BC BOTTOM OF CURB BCB BIT. CONC. BERM BEN BENCH BIT BITUMINOUS BK BACK BR BIKE RACK BS BOTTOM OF STEPS BW BOTTOM OF WALL (C) CALCULATED CB CONCRETE BOUND CC CONCRETE CURB CCB CAPE COD BERM CLF CHAIN LINK FENCE CL CLUSTER CSL CONCRETE STEPS AND LANDING CMU CONCRETE AND MASONRY CONC CONCRETE DWP DETECTIBLE WARNING PANEL ELEC ELECTRIC ENT ENTRANCE FGC FLUSH GRANITE CURB FOD FULL OF DEBRIS FOW FULL OF WATER GD GARAGE DOOR GEN GENERATOR GRAV GRAVEL GRAN GRANITE HDG HEDGES HGT TREE HEIGHT I= INVERT ELEVATION INAC INACCESSIBLE L= LENGTH LCC LAND COURT CASE LD LOADING DOCK LST LANDSCAPE TIMBER M&S MULCH & SHRUBS MBTA MASSACHUSETTS BAY TRANSIT AUTHORITY MIT MASSACHUSETTS INSTITUTE OF TECHNOLOGY MET METAL NVP NO VISIBLE PIPES OHD OVERHEAD DOOR OV OVER PRC POINT OF REVERSE CURVE R= RIM ELEVATION (R) RECORD RET RETAINING REV REVOLVING RSR RISER SB STONE BOUND SGC SLOPED GRANITE CURB SQ. FT. SQUARE FEET STKF STOCKADE FENCE TBM TEMPORARY BENCH MARK TC TOP OF CURB TD TRENCH DRAIN TR= CENTERLINE OF TROUGH TRANS TRANSFORMER TS TOP OF STEPS TT= TOP OF TRAP TW TOP OF WALL TOP TOP OF PIPE TYP TYPICAL UPL UTILITY POLE WITH LIGHT VGC VERTICAL GRANITE CURB WF WOOD FENCE |
|---|---|

SOUTH OF MAIN PROJECT



KEY SHEET

PLAN REFERENCES:

- MIDDLESEX REGISTRY OF DEEDS**
 PLAN NO. 3 OF 1966
 PLAN NO. 966 OF 1972
 PLAN NO. 1566 OF 1985
 PLAN NO. 1334 OF 1986
 PLAN NO. 1316 OF 1987
 PLAN NO. 402 OF 1993
 PLAN NO. 403 OF 1993
 PLAN NO. 424 OF 1993
 PLAN NO. 908 OF 2000
 PLAN NO. 1774 OF 2005
 PLAN NO. 452 OF 2010

MASSACHUSETTS LAND COURT

- LCC 195A
- LCC 195B
- LCC 195D
- LCC 195E
- LCC 3249A
- LCC 3600A
- LCC 4412A
- LCC 4656A
- LCC 8156A
- LCC 8156B
- LCC 16570A
- LCC 18504A
- LCC 23568A
- LCC 31630A
- LCC 7614A

CITY OF CAMBRIDGE ENGINEERING DEPARTMENT

- FIELD BOOK 136 PAGE 140-141
- FIELD BOOK 156 PAGE 122
- FIELD BOOK 168 PAGE 59

- PLAN NO. 3190
- PLAN NO. 3214
- PLAN NO. 3219
- PLAN NO. 3275
- PLAN NO. 4483
- PLAN NO. 4488
- PLAN NO. 4492
- PLAN NO. 6291A
- PLAN NO. 6291
- PLAN NO. 6339
- PLAN NO. 6492B
- PLAN NO. 6972
- PLAN NO. 9001
- PLAN NO. CRA026
- PLAN NO. CRA029
- PLAN NO. N-314
- PLAN NO. STR-16-07
- PLAN NO. STR-16-08
- PLAN NO. STR-16-09
- PLAN NO. STR-16-10
- PLAN NO. STR-17-22
- PLAN NO. STR-17-28
- PLAN NO. STR-18-38
- PLAN NO. STR-18-30

GENERAL NOTES:

- 1) BENCH MARK INFORMATION: M.I.T. CONTROL SYSTEM
 MIT-01: DISK AT THE NORTHWEST CORNER OF THE INTERSECTION OF AMES STREET AND MEMORIAL DRIVE.
 ELEVATION = 20.20

 MIT-49: STONE BOUND WITH SCRIBE MARK AT THE SOUTHEAST CORNER OF THE INTERSECTION OF AMES STREET AND MAIN STREET, AS SHOWN ON PLAN.
 ELEVATION = 20.11

 MIT-53: DRILL HOLE AT THE NORTHEAST CORNER OF THE INTERSECTION OF MEMORIAL DRIVE AND WADSWORTH STREET.
 ELEVATION = 20.87

 TEMPORARY BENCH MARKS SET:

 TBM-JF1: LEFT FRONT CORNER OF GRANITE MONUMENT IN FRONT OF #350 MAIN STREET "LEO SHALLOW SQUARE", AS SHOWN ON PLAN.
 ELEVATION = 21.13

 TBM-JF2: CHISELED SQUARE ON OUTSIDE CORNER ON 2ND CONCRETE STEP AT THE NORTHERN INTERSECTION OF AMHERST AND AMES STREET, AS SHOWN ON PLAN.
 ELEVATION = 20.81

 TBM-JF3: X-MARK ON RIGHT FRONT HYDRANT BONNET BOLT IN FRONT OF #1 BROADWAY, AS SHOWN ON PLAN.
 ELEVATION = 21.37

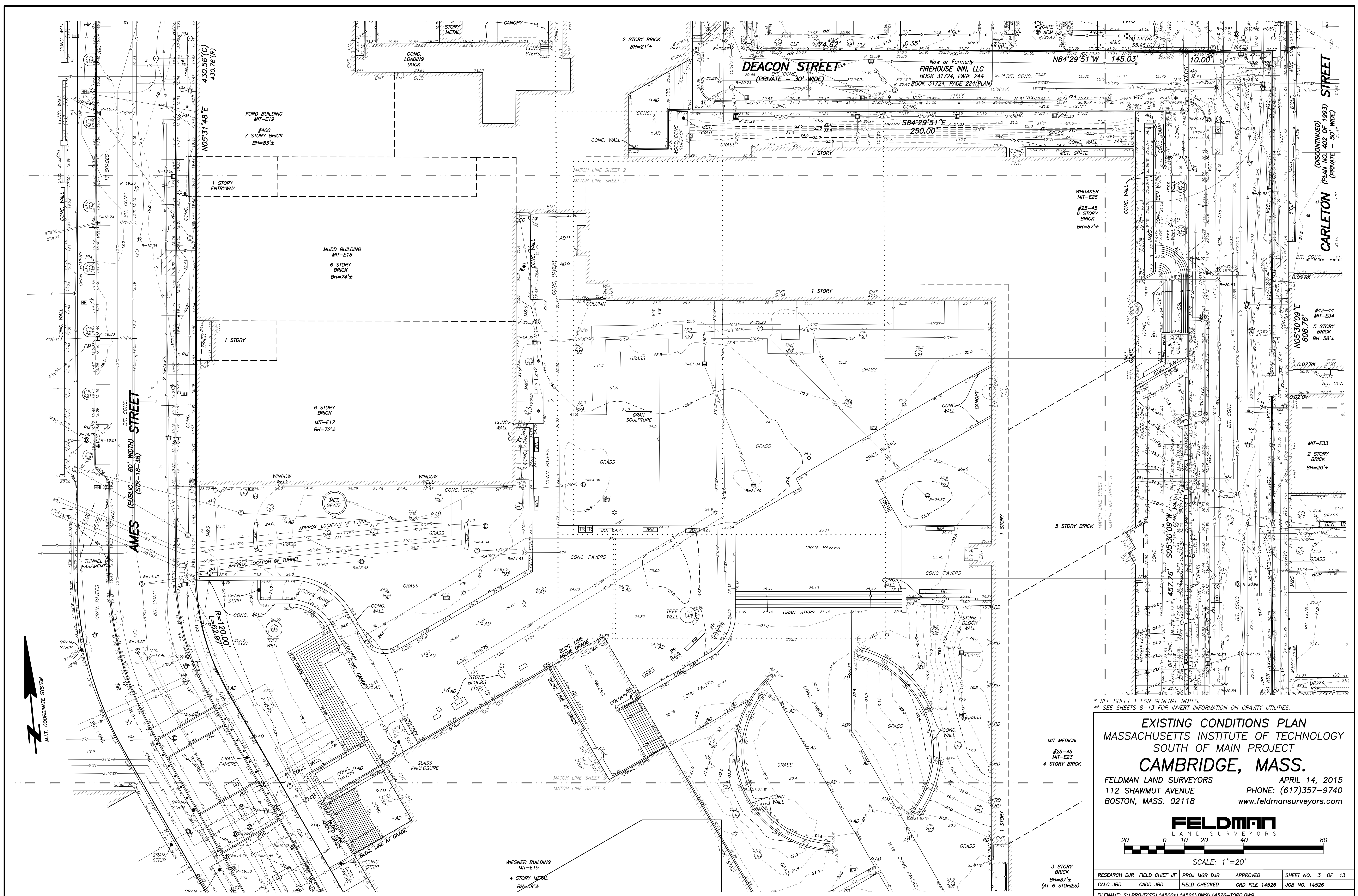
 TBM-JF4: CHISELED SQUARE ON RIGHT OUTSIDE CORNER ON CONCRETE BASE OF STEPS AT THE NORTHEASTERN INTERSECTION OF AMHERST AND CARLTON STREET, AS SHOWN ON PLAN.
 ELEVATION = 21.54

 TBM-JF5: CHISELED SQUARE ON RIGHT OUTSIDE CORNER ON CONCRETE LANDING FOR THE ENTRYWAY AT THE NORTHEASTERN INTERSECTION OF AMHERST AND HAYWARD STREET, AS SHOWN ON PLAN.
 ELEVATION = 21.60

 TBM-JF6: X-MARK ON RIGHT FRONT HYDRANT BONNET BOLT IN AT THE SOUTHERN INTERSECTION OF AMHERST AND WADSWORTH STREET, AS SHOWN ON PLAN.
 ELEVATION = 23.05

 TBM-JF7: CHISELED SQUARE ON NORTHWESTERN CORNER ON CONCRETE PAD FOR TRAFFIC CONTROL BOX AT THE SOUTHEASTERN INTERSECTION OF MAIN AND HAYWARD STREET, AS SHOWN ON PLAN.
 ELEVATION = 21.57
- 2) ELEVATIONS REFER TO M.I.T. DATUM.
- 3) UTILITY INFORMATION SHOWN IS BASED ON BOTH A FIELD SURVEY AND PLANS OF RECORD. THE LOCATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE AFOREMENTIONED RECORD PLANS AND ARE APPROXIMATE ONLY. WE CANNOT ASSUME RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES THAT ARE OMITTED OR INACCURATELY SHOWN ON SAID RECORD PLANS, SINCE SUB-SURFACE UTILITIES CANNOT BE VISIBLY VERIFIED. BEFORE PLANNING FUTURE CONNECTIONS, THE PROPER UTILITY ENGINEERING DEPARTMENT SHOULD BE CONSULTED AND THE ACTUAL LOCATION OF SUB-SURFACE STRUCTURES SHOULD BE DETERMINED IN THE FIELD. CALL, TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.

7/16/2015	REVISIONS PER UTILITY REVIEW			
<p>EXISTING CONDITIONS PLAN MASSACHUSETTS INSTITUTE OF TECHNOLOGY SOUTH OF MAIN PROJECT CAMBRIDGE, MASS.</p>				
FELDMAN LAND SURVEYORS 112 SHAWMUT AVENUE BOSTON, MASS. 02118	APRIL 14, 2015 PHONE: (617)357-9740 www.feldmansurveyors.com			
<p>SCALE: 1"=20'</p>				
RESEARCH DJR	FIELD CHIEF JF	PRQJ MGR DJR	APPROVED	SHEET NO. 1 OF 13
CALC JBD	CADD JBD	FIELD CHECKED	CRD FILE 14526	JOB NO. 14526
FILENAME: S:\PROJECTS\14500s\14526\DWG\14526-TOPO.DWG				



* SEE SHEET 1 FOR GENERAL NOTES.
 ** SEE SHEETS 8-13 FOR INVERT INFORMATION ON GRAVITY UTILITIES.

EXISTING CONDITIONS PLAN
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
SOUTH OF MAIN PROJECT
CAMBRIDGE, MASS.

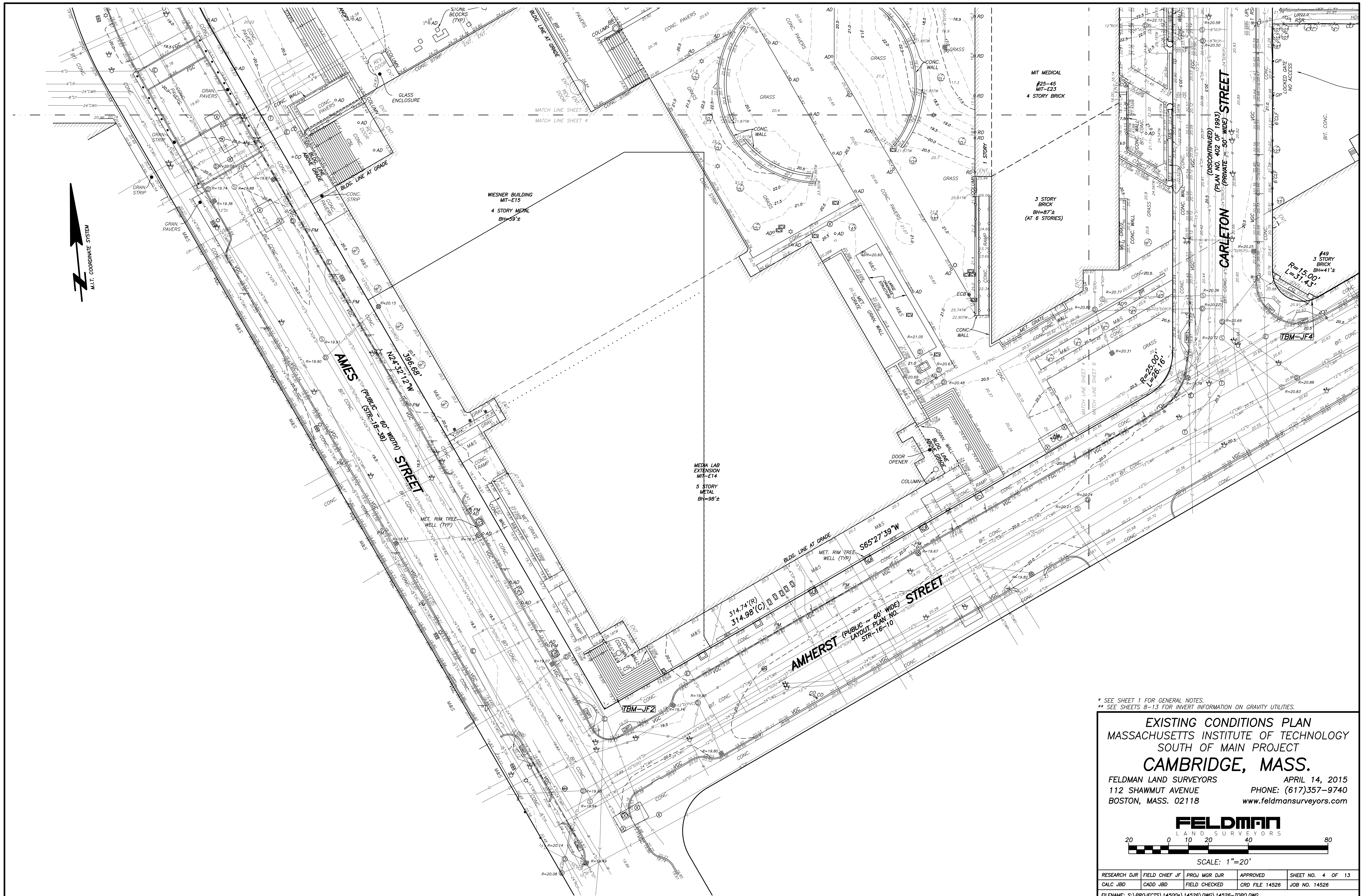
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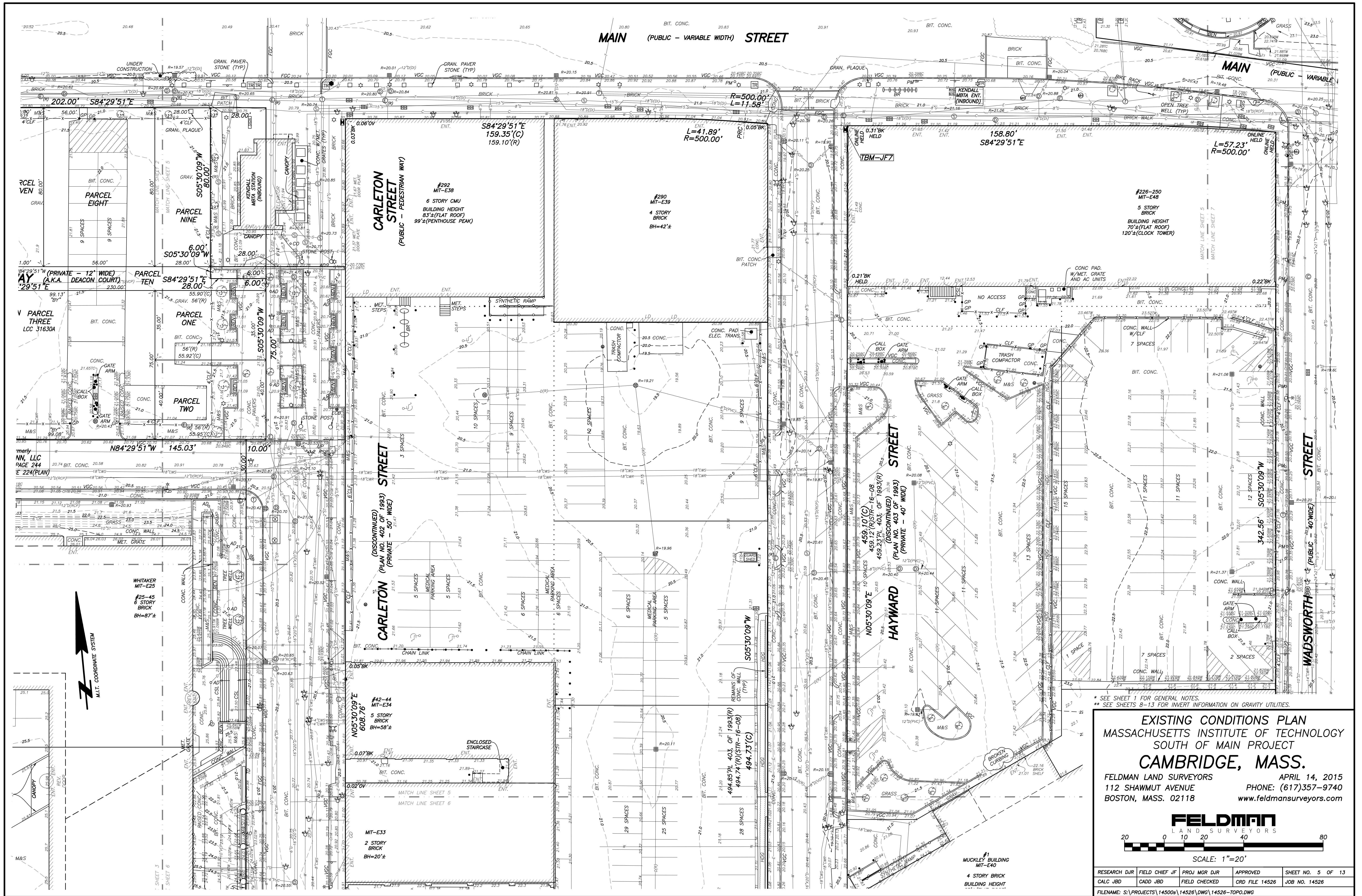
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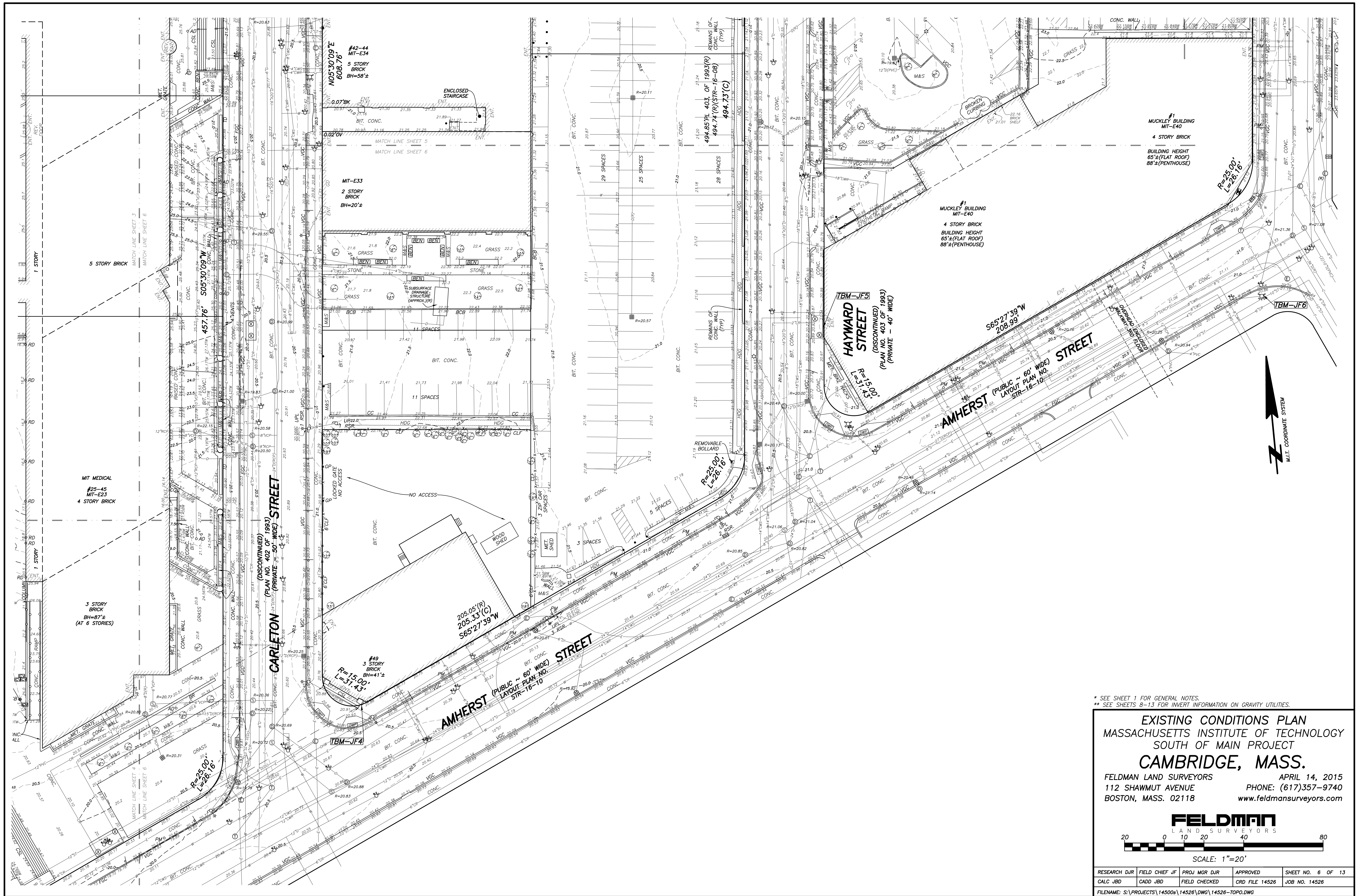
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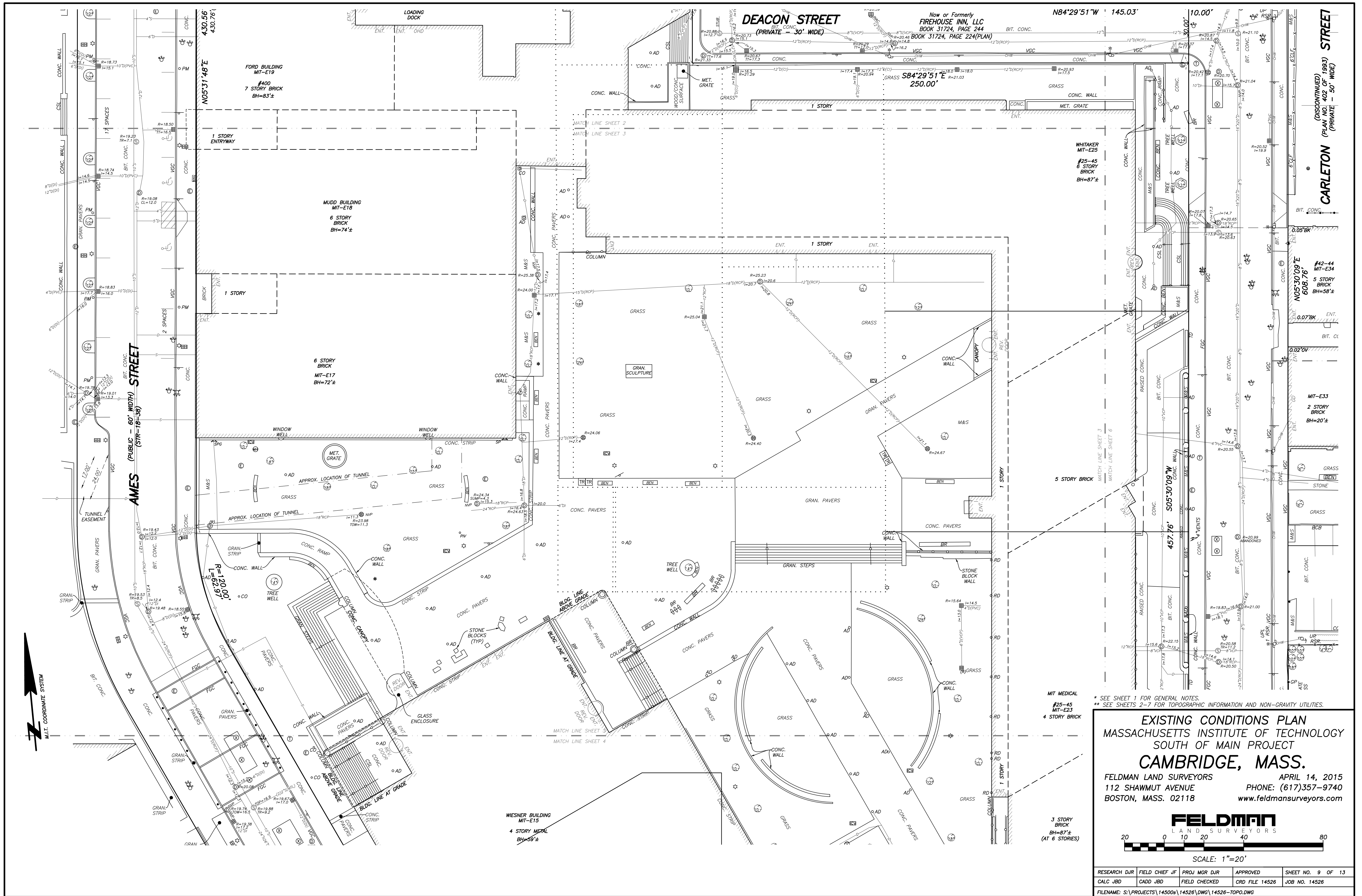
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* SEE SHEET 1 FOR GENERAL NOTES.
 ** SEE SHEETS 2-7 FOR TOPOGRAPHIC INFORMATION AND NON-GRAVITY UTILITIES.

EXISTING CONDITIONS PLAN MASSACHUSETTS INSTITUTE OF TECHNOLOGY SOUTH OF MAIN PROJECT CAMBRIDGE, MASS.

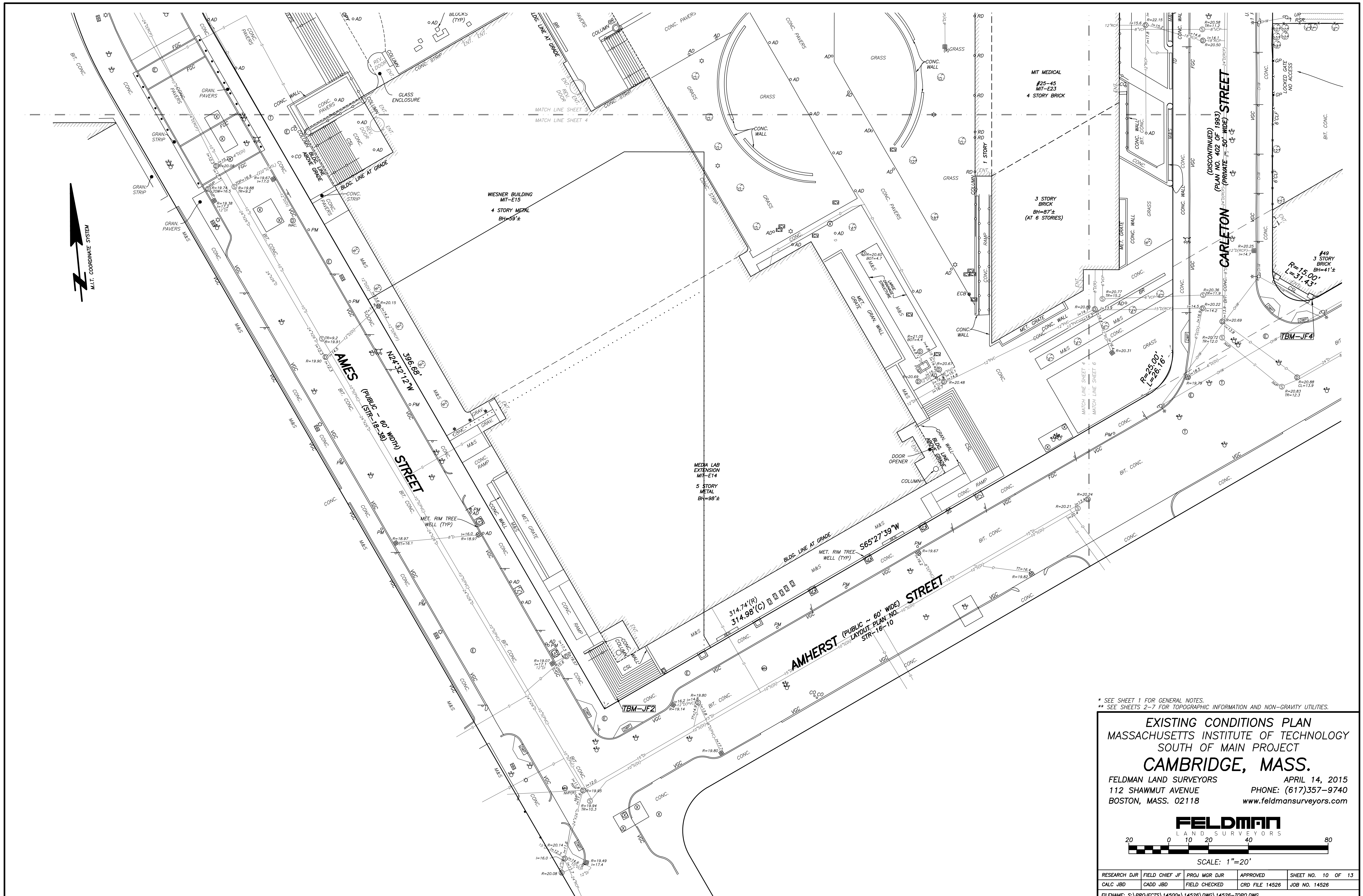
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CALC JBD	CADD JBD	FIELD CHECKED	CRD FILE 14526	JOB NO. 14526

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* SEE SHEET 1 FOR GENERAL NOTES.
 ** SEE SHEETS 2-7 FOR TOPOGRAPHIC INFORMATION AND NON-GRAVITY UTILITIES.

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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CAMBRIDGE, MASS.

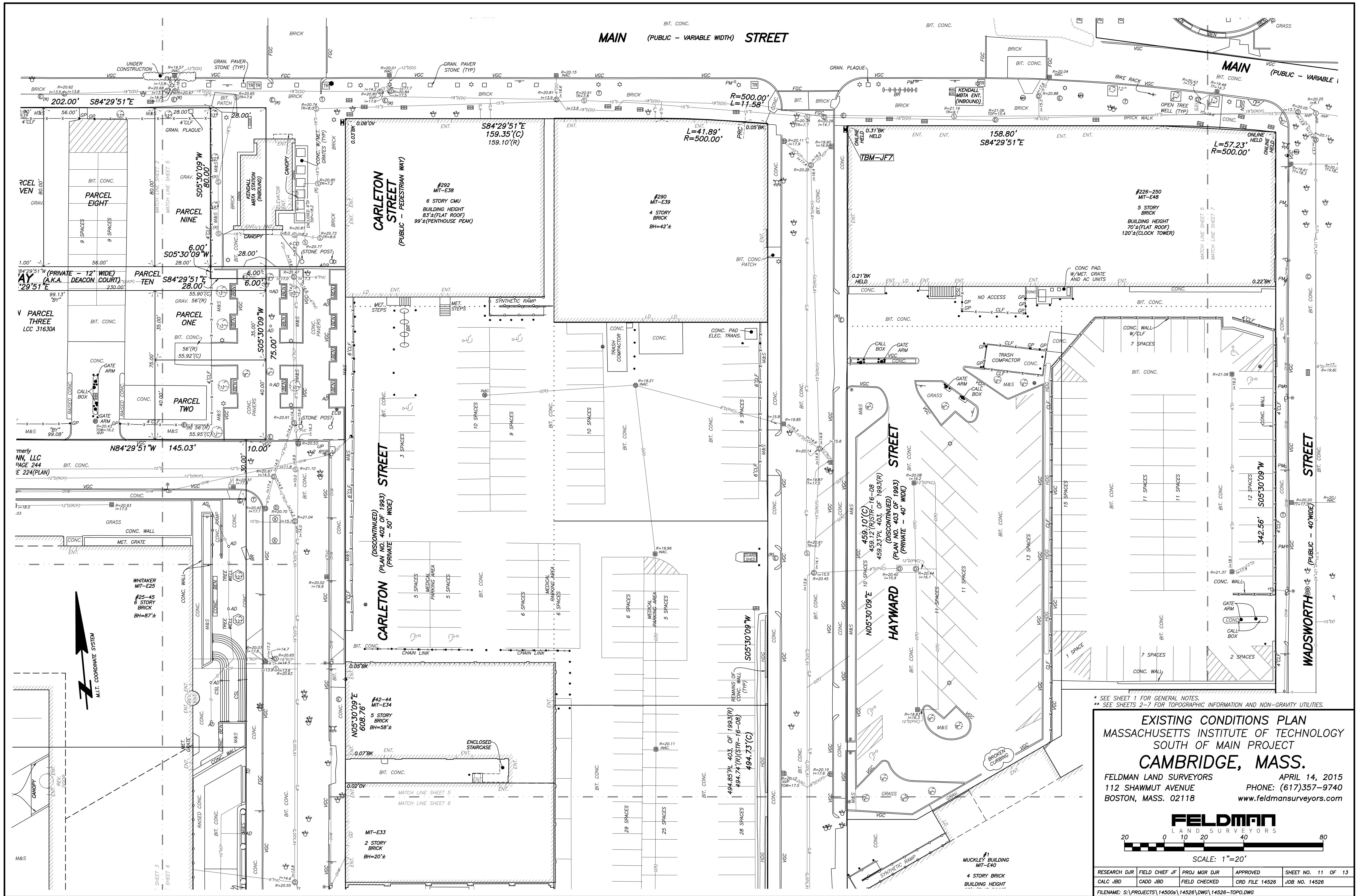
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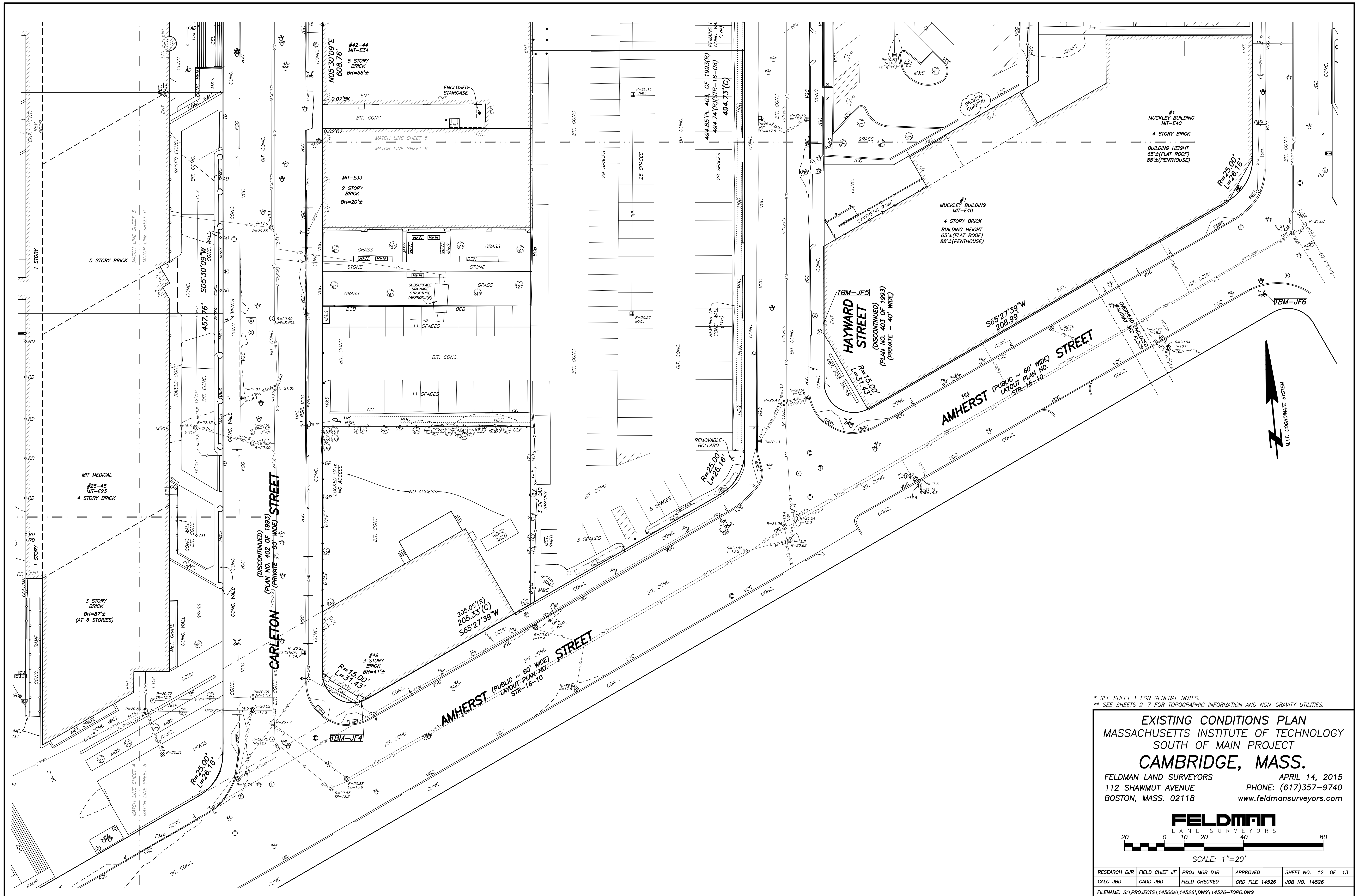
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RESEARCH DJR	FIELD CHIEF JF	PROJ MGR DJR	APPROVED	SHEET NO. 10 OF 13
CALC JBD	CADD JBD	FIELD CHECKED	CRD FILE 14526	JOB NO. 14526

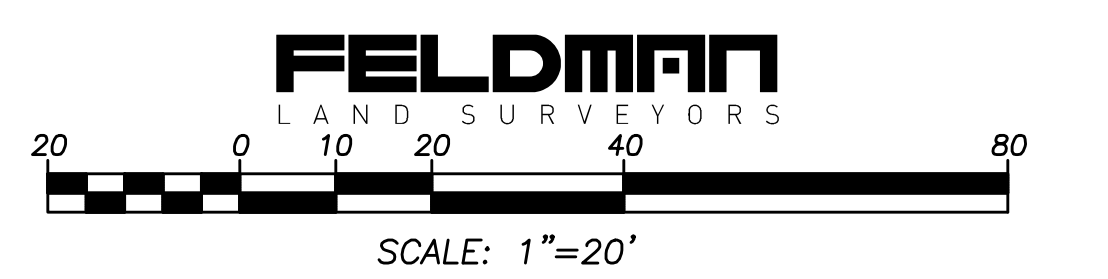
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* SEE SHEET 1 FOR GENERAL NOTES.
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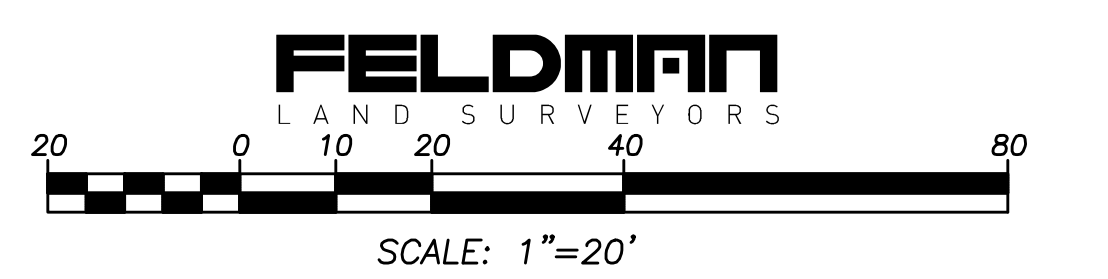
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CALC JBD	CADD JBD	FIELD CHECKED	CRD FILE 14526	JOB NO. 14526
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