LAVALLEE | BRENSINGER ARCHITECTS

SANFORD HIGH SCHOOL and TECHNICAL CENTER

OWNER:
Sanford School Department and State of Maine Department of Education

SANFORD, ME 04073

ARCHITECT:
Lavallee Brensinger Architects

155 Dow Street, Suite 400, Manchester, NH 03101
40 Cambridge Street, Charlestown, MA 02129
305 Commercial Street Portland, ME 04101
NH: 603.622.5450
MA: 617.398.2035
ME: 207.558.7200
www.LBPA.com

CIVIL ENGINEER & LANDSCAPE ARCHITECT:
Sebago Technics

75 John Roberts Road, Suite 1A
South Portland, Maine 04106-6963
207.200.2071
www.sebagotechnics.com

STRUCTURAL ENGINEER:
Becker Structural Engineers

75 York Street
Portland, ME 04101
207.879.1838
www.beckerstructural.com

MECHANICAL / ELECTRICAL / PLUMBING & FIRE PROTECT ENGINEER:
Rist-Frost-Shumway Engineering

71 Water Street
Laconia, NH 03246
603.524.4647
www.rfsengineering.com

FOOD SERVICE CONSULTANT:
Crabtree McGrath Associates, Inc

161 West Main Street
Georgetown, MA 01833
978.352.8500
www.crabtree-mcgrath.com

ACOUSTICAL CONSULTANTS:
Cavanaugh Tocci Associates, Inc.

327F Boston Post Road
Sudbury, MA 01776
978.443.7871
www.cavtocci.com

RADON SYSTEM DESIGNER
Air & Water Quality

160 US Route 1
Freeport, ME 04032
800.698.9655
www.awqinc.com

COMMISSIONING AGENT (Owners Consultant)
RDK Engineers

200 Brickstone Square
Andover, MA 01810
978.296.6269
www.rdkengineers.com

GEOTECHNICAL ENGINEER (Owners Consultant)
S. W. Cole Engineering Inc.

286 Portland Road
Gray, Maine 04039
207.657.2866
www.rdkengineers.com

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING LIST - COVER SHEETS

SHEET #	SHEET NAME
Architectural	
A0.00.1	COVER SHEET (VOLUME 1) - CIVIL, STRUCTURAL
A0.00.2	COVER SHEET (VOLUME 2) - ARCHITECTURAL, ARCHITECTURAL INTERIORS
A0.00.3	COVER SHEET (VOLUME 3) - MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, TELECOMMUNICATIONS, FOOD SERVICE

DRAWING LIST (VOLUME 1) - CIVIL, STRUCTURAL

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C75	PRE-DEVELOPMENT STORMWATER PLAN
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DRAWING LIST (VOLUME 1) - CIVIL, STRUCTURAL

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OS-5	CROSS SECTIONS
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S1.1	LEVEL 1 PART FOUNDATION PLAN - AREA A1
S1.2	LEVEL 1 PART FOUNDATION PLAN - AREA A2
S1.3	LEVEL 1 PART FOUNDATION PLAN - AREA A3
S1.4	LEVEL 1 PART FOUNDATION PLAN - AREA B
S1.5	LEVEL 1 PART FOUNDATION PLAN - AREA C1
S1.6	LEVEL 1 PART FOUNDATION PLAN - AREA C2
S1.7	LEVEL 1 PART FOUNDATION PLAN - AREA D
S1.8	LEVEL 1 PART FOUNDATION PLAN - AREA E
S1.9	LEVEL 1 PART FOUNDATION PLAN - AREA F1
S1.10	LEVEL 1 PART FOUNDATION PLAN - AREA F2
S1.11	LEVEL 2 PART FRAMING PLAN - AREA A1
S1.12	LEVEL 2 PART FRAMING PLAN - AREA A2
S1.13	LEVEL 2 PART FRAMING PLAN - AREA A3
S1.14	LEVEL 2 PART FRAMING PLAN - AREA B
S1.15	LEVEL 2 PART FRAMING PLAN - AREA C1
S1.16	LEVEL 2 PART FRAMING PLAN - AREA D
S1.17	LEVEL 2 PART FRAMING PLAN - AREA E
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S1.23	ROOF PART FRAMING PLAN - AREA A3
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S1.25	ROOF PART FRAMING PLAN - AREA C1
S1.26	ROOF PART FRAMING PLAN - AREA C2
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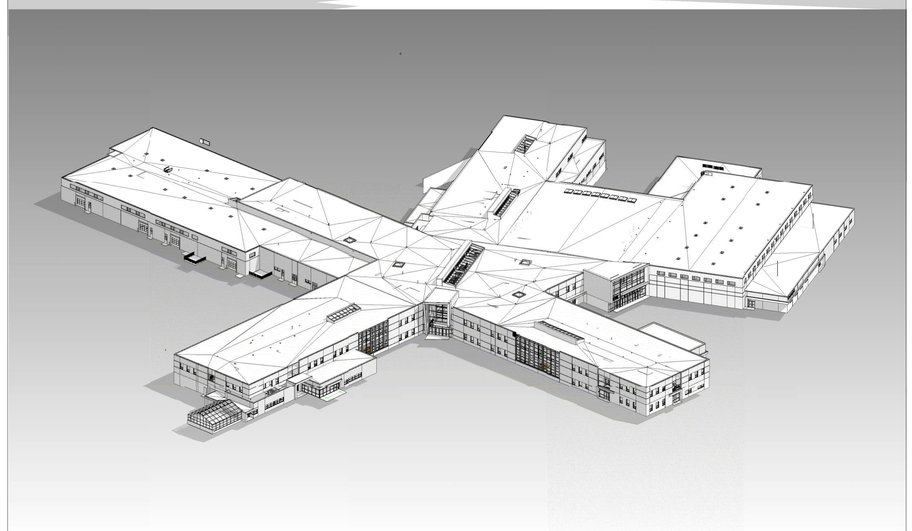
S4.4	AREA E BRACED FRAME ELEVATIONS
51	
Grand total: 138	

Sanford School Department and State of Maine Department of Education

SANFORD, ME 04073



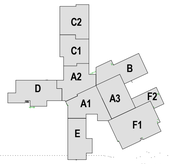
Sanford School Department

Signature: Patrick Cotter
Name: Patrick COTTER
State of Maine Fire Marshal / Plan Reviewer

Signature: Scott E. Brown
Name: Scott E. Brown
State of Maine Department of Education

Signature:
Name:
State of Maine Department of Health and Human Services

Signature: J. Ostwald
Name: Joseph H. Ostwald
State of Maine Bureau of General Services



KEYPLAN

VOLUME 1

CIVIL, STRUCTURAL

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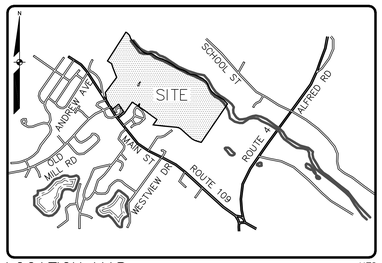
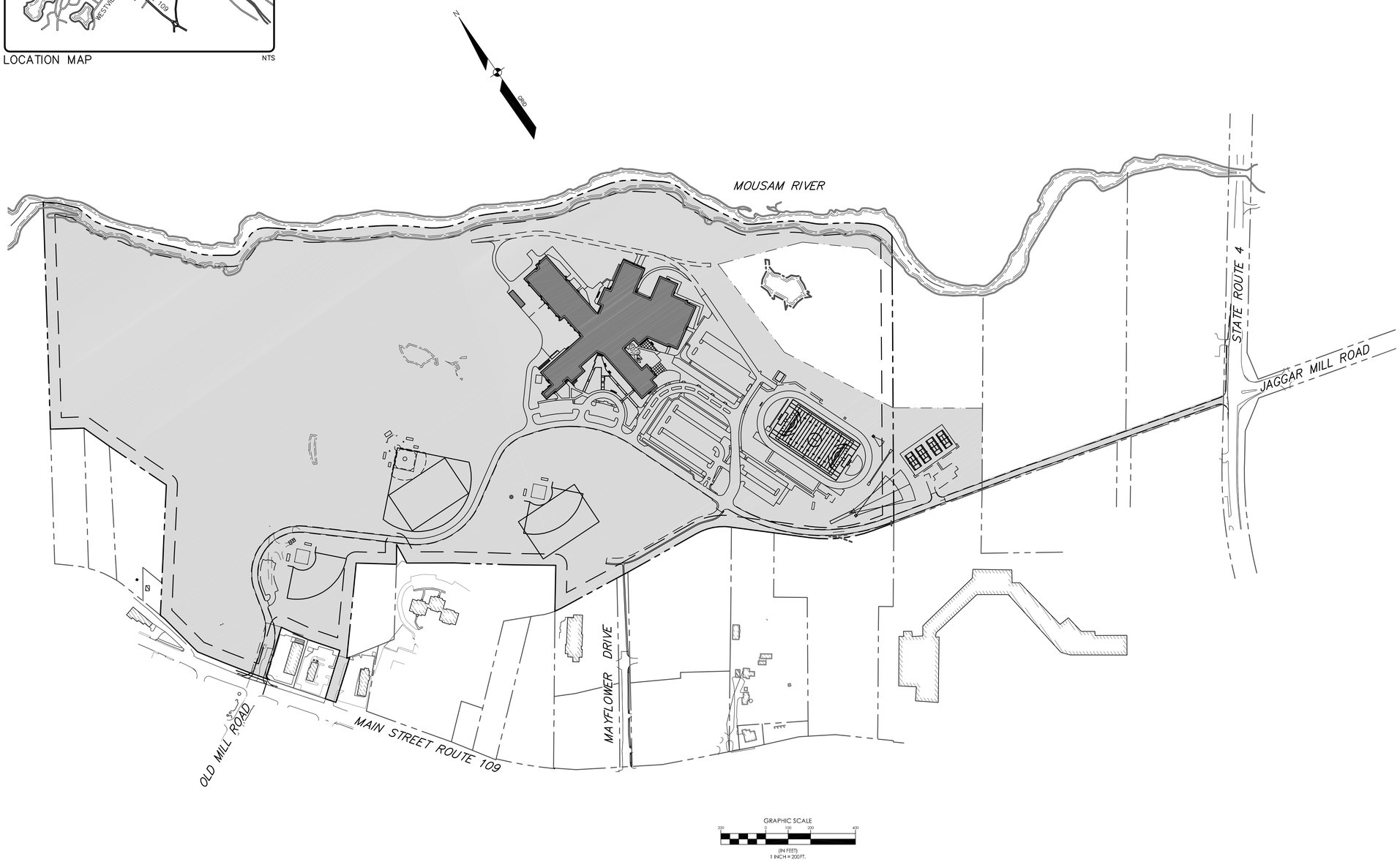
SANFORD HIGH SCHOOL & TECHNICAL CENTER

ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073



LOCATION MAP NTS



APPLICANT:

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ENGINEER/SURVEYOR:

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WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

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C74	POST-DEVELOPMENT STORMWATER PLAN
C75	POST-DEVELOPMENT STORMWATER PLAN

REVISED THROUGH 02-11-16

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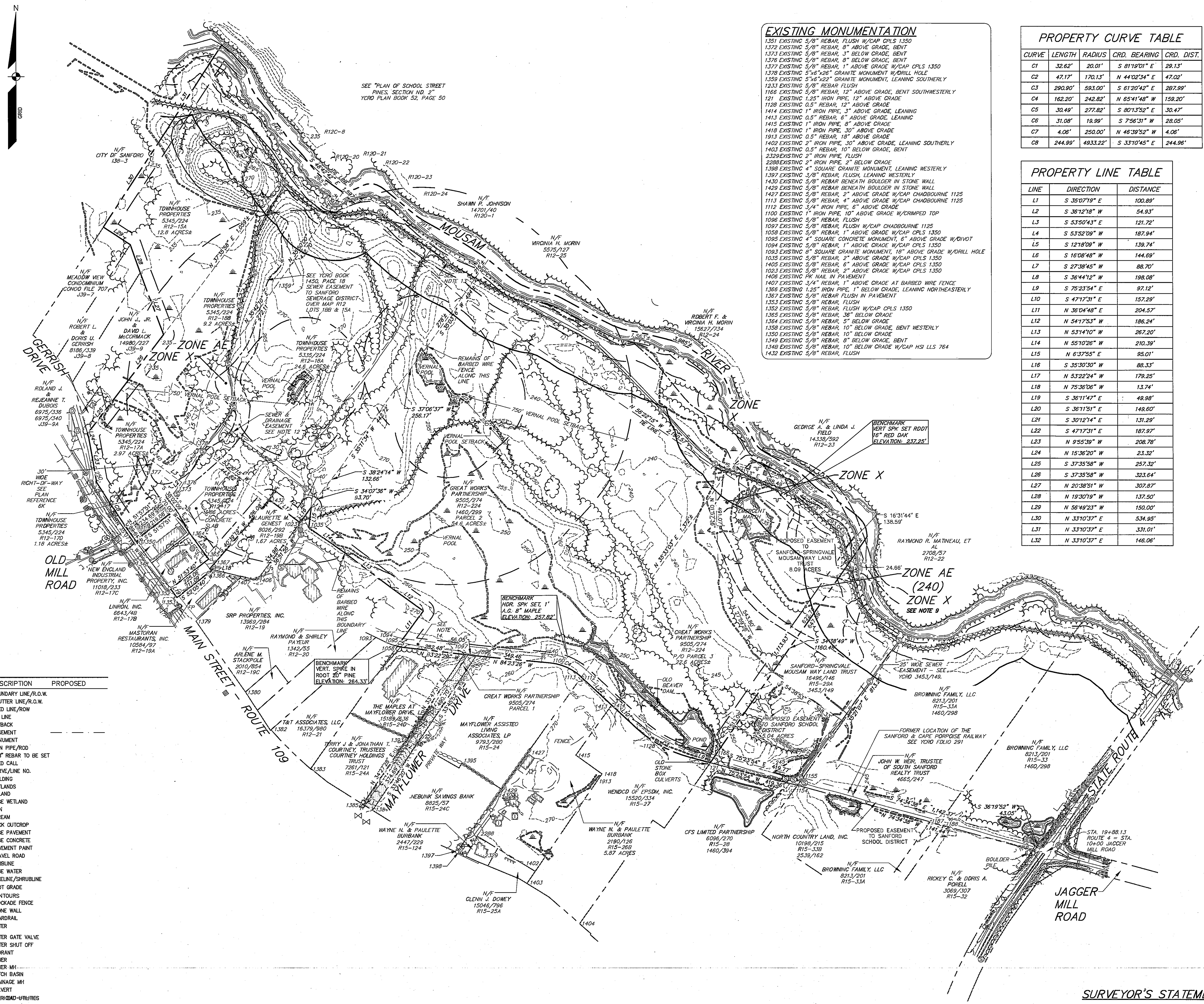


EXISTING MONUMENTATION

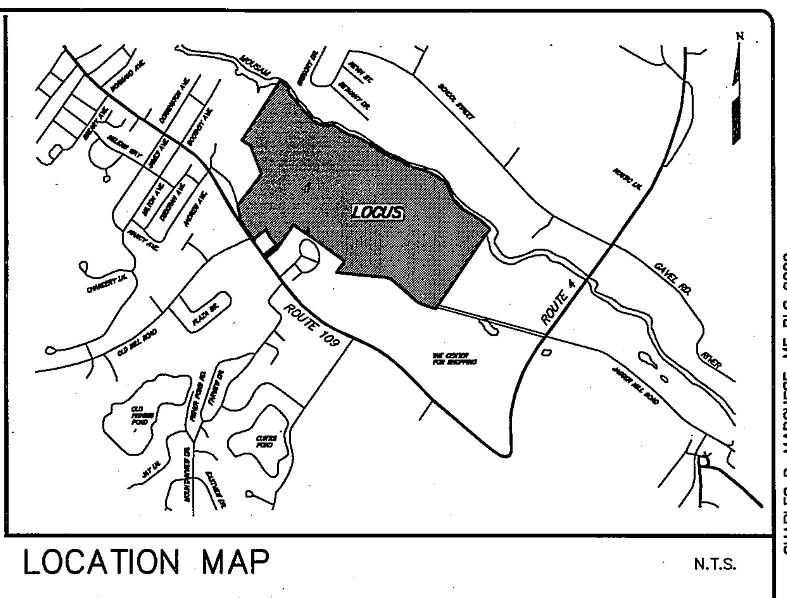
1351 EXISTING 5/8" REBAR, FLUSH W/CAP CPLS 1350
1372 EXISTING 5/8" REBAR, 8" ABOVE GRADE, BENT
1373 EXISTING 5/8" REBAR, 3" BELOW GRADE, BENT
1376 EXISTING 5/8" REBAR, 8" BELOW GRADE, BENT
1377 EXISTING 5/8" REBAR, 1" ABOVE GRADE W/CAP CPLS 1350
1378 EXISTING 5"x6"x26" GRANITE MONUMENT W/DRILL HOLE
1359 EXISTING 5"x6"x22" GRANITE MONUMENT, LEANING SOUTHERLY
1233 EXISTING 5/8" REBAR FLUSH
1166 EXISTING 5/8" REBAR, 12" ABOVE GRADE, BENT SOUTHWESTERLY
121 EXISTING 1.25" IRON PIPE, 12" ABOVE GRADE
1128 EXISTING 0.5" REBAR, 12" ABOVE GRADE
1414 EXISTING 1" IRON PIPE, 3" ABOVE GRADE, LEANING
1413 EXISTING 0.5" REBAR, 6" ABOVE GRADE, LEANING
1415 EXISTING 1" IRON PIPE, 8" ABOVE GRADE
1418 EXISTING 1" IRON PIPE, 30" ABOVE GRADE
1913 EXISTING 0.5" REBAR, 18" ABOVE GRADE
1402 EXISTING 2" IRON PIPE, 30" ABOVE GRADE, LEANING SOUTHERLY
1403 EXISTING 0.5" REBAR, 10" BELOW GRADE, BENT
2329 EXISTING 2" IRON PIPE, FLUSH
2288 EXISTING 2" IRON PIPE, 2" BELOW GRADE
1398 EXISTING 4" SQUARE GRANITE MONUMENT, LEANING WESTERLY
1397 EXISTING 3/8" REBAR, FLUSH, LEANING WESTERLY
1430 EXISTING 5/8" REBAR BENEATH BOULDER IN STONE WALL
1429 EXISTING 5/8" REBAR BENEATH BOULDER IN STONE WALL
1427 EXISTING 5/8" REBAR, 2" ABOVE GRADE W/CAP CHADBOURNE 1125
1113 EXISTING 5/8" REBAR, 4" ABOVE GRADE W/CAP CHADBOURNE 1125
1112 EXISTING 3/4" IRON PIPE, 6" ABOVE GRADE
1100 EXISTING 1" IRON PIPE, 10" ABOVE GRADE W/CRIMPED TOP
1096 EXISTING 5/8" REBAR, FLUSH
1097 EXISTING 5/8" REBAR, FLUSH W/CAP CHADBOURNE 1125
1058 EXISTING 5/8" REBAR, 1" ABOVE GRADE W/CAP CPLS 1350
1095 EXISTING 4" SQUARE CONCRETE MONUMENT, 6" ABOVE GRADE W/DIVOT
1094 EXISTING 5/8" REBAR, 1" ABOVE GRADE W/CAP CPLS 1350
1093 EXISTING 8" SQUARE GRANITE MONUMENT, 18" ABOVE GRADE W/DRILL HOLE
1035 EXISTING 5/8" REBAR, 2" ABOVE GRADE W/CAP CPLS 1350
1405 EXISTING 5/8" REBAR, 6" ABOVE GRADE W/CAP CPLS 1350
1023 EXISTING 5/8" REBAR, 2" ABOVE GRADE W/CAP CPLS 1350
1406 EXISTING PK NAIL IN PAVEMENT
1407 EXISTING 3/4" REBAR, 1" ABOVE GRADE AT BARBED WIRE FENCE
1366 EXISTING 1.25" IRON PIPE, 1" BELOW GRADE, LEANING NORTHEASTERLY
1367 EXISTING 5/8" REBAR FLUSH IN PAVEMENT
1353 EXISTING 5/8" REBAR, FLUSH
1352 EXISTING 5/8" REBAR, FLUSH W/CAP CPLS 1350
1365 EXISTING 5/8" REBAR, 36" BELOW GRADE
1364 EXISTING 5/8" REBAR, 5" BELOW GRADE
1358 EXISTING 5/8" REBAR, 10" BELOW GRADE, BENT WESTERLY
1350 EXISTING 5/8" REBAR, 10" BELOW GRADE
1349 EXISTING 5/8" REBAR, 8" BELOW GRADE, BENT
1348 EXISTING 5/8" REBAR, 10" BELOW GRADE W/CAP HSI LLS 764
1432 EXISTING 5/8" REBAR, FLUSH

PROPERTY CURVE TABLE

CURVE	LENGTH	RADIUS	CRD. BEARING	CRD. DIST.
C1	32.62'	20.01'	S 81°19'01" E	29.13'
C2	47.17'	170.13'	N 44°02'34" E	47.02'
C3	290.90'	593.00'	S 61°20'42" E	287.99'
C4	162.20'	242.82'	N 65°41'48" W	159.20'
C5	30.49'	277.82'	S 80°13'52" E	30.47'
C6	31.08'	19.99'	S 7°56'31" W	28.05'
C7	4.06'	250.00'	N 46°39'52" W	4.06'
C8	244.99'	4933.22'	S 33°10'45" E	244.96'

PROPERTY LINE TABLE

LINE	DIRECTION	DISTANCE
L1	S 35°07'19" E	100.89'
L2	S 36°12'18" W	54.93'
L3	S 53°50'43" E	121.72'
L4	S 53°52'09" W	187.94'
L5	S 12°18'09" W	139.74'
L6	S 16°08'48" W	144.69'
L7	S 27°38'45" W	88.70'
L8	S 36°44'12" W	198.08'
L9	S 75°23'54" E	97.12'
L10	S 47°17'31" E	157.29'
L11	N 36°04'48" E	204.57'
L12	N 54°17'53" W	186.24'
L13	N 53°14'10" W	267.20'
L14	N 55°10'26" W	210.39'
L15	N 6°37'55" E	95.01'
L16	S 35°30'30" W	88.33'
L17	N 53°22'24" W	179.25'
L18	N 75°36'06" W	13.74'
L19	S 36°11'47" E	49.98'
L20	S 36°11'51" E	149.60'
L21	S 30°12'14" E	131.29'
L22	S 47°17'31" E	187.97'
L23	N 9°55'39" W	208.78'
L24	N 15°36'20" W	23.32'
L25	S 37°35'58" W	257.32'
L26	S 37°35'58" W	323.64'
L27	N 20°38'51" W	307.87'
L28	N 19°30'19" W	137.50'
L29	N 56°49'23" W	150.00'
L30	N 33°10'37" E	534.95'
L31	N 33°10'37" E	331.01'
L32	N 33°10'37" E	146.06'



LOCATION MAP

N.T.S.

GENERAL NOTES

1. THE RECORD OWNER OF THE PROPERTY IS THE CITY OF SANFORD, MAINE BY DEEDS DATED JUNE 18, 2015 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS IN BOOK 17039, PAGE 634 AND BOOK 17039, PAGE 638.

2. THE PROPERTY IS SHOWN AS LOTS 15A, 17, 17A, 17D, 18A, 18B, AND 224 ON THE CITY OF SANFORD TAX MAP R12 AND LOT 29A ON THE CITY OF SANFORD TAX MAP R15 AND IS LOCATED IN THE URBAN ZONE (UZ) ZONING DISTRICT. PORTIONS OF THE LOCUS PROPERTY ALONG THE MOUSAM RIVER FALL WITHIN THE SHORELAND OVERLAY AND RESOURCE PROTECTION DISTRICTS AND ARE SUBJECT TO THE CITY OF SANFORD ZONING REQUIREMENTS.

3. SPACE AND BULK CRITERIA FOR THE URBAN ZONING DISTRICT IS AS FOLLOWS:

MAXIMUM NET RESIDENTIAL DENSITY:	1 UNIT/5000 SF NET LOT AREA FOR 1ST 2 UNITS – 1 UNIT FOR EACH ADDITIONAL 2500 SF OF NET LOT AREA
MINIMUM LOT SIZE:	5,000 SF
MINIMUM STREET FRONTAGE:	50 FEET
MINIMUM FRONT YARD:	20 FEET MAXIMUM
MINIMUM SIDE YARD:	NONE (EXCEPT RESIDENTIAL BUFFER APPLIES)
MINIMUM REAR YARD:	NONE (EXCEPT RESIDENTIAL BUFFER APPLIES)
MAXIMUM BUILDING HEIGHT:	55 FEET

* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION

4. THE AREA OF THE PARCEL IS APPROXIMATELY 113.5 ACRES AS MEASURED TO THE TIE LINES DEPICTED HEREON. THE TOTAL AREA OF THE PARCEL MEASURED TO THE APPROXIMATE CENTER LINE MEANDERS OF THE MOUSAM RIVER IS APPROXIMATELY 131.9 ACRES.

5. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNICS, INC. IN AUGUST AND SEPTEMBER OF 2013. THE TOPOGRAPHIC SURVEY IS A COMBINATION OF AERIAL PHOTOGRAMMETRIC MAPPING BY KAPPA MAPPING, INC. AND GROUND SURVEY OF OBSCURED AREAS BY SEBAGO TECHNICS, INC IN SEPTEMBER 2013. ADDITIONAL TOPOGRAPHIC SURVEY WAS PERFORMED BY SEBAGO TECHNICS, INC. IN JUNE 2015 ON ROUTE 4, ROUTE 109, MAYFLOWER DRIVE AND ON-SITE.

6. PLAN REFERENCES:
   A. "PLAN SHOWING LAND IN SANFORD, MAINE TO BE PURCHASED BY BARRY C. WEYLAND AND ROBERT R. VALLIERE" DATED AUGUST 1977 BY MIDDLE BRANCH ENGINEERING. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 88, PAGE 41.
   B. "PLAN SHOWING A BOUNDARY SURVEY FOR BARRY C. WEYLAND, SANFORD, MAINE" DATED OCTOBER 6, 1986 BY MIDDLE BRANCH ENGINEERING LAND SURVEYORS, ALFRED, MAINE.
   C. "STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE HIGHWAY "7" SANFORD, YORK COUNTY, FEDERAL AID PROJECT NO. F-07-1(7)" DATED JANUARY 1987", D.O.T. FILE NO. 16-300, SHEETS 2 & 3 OF 4. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 161, PAGE 26 & 27.
   D. "STANDARD BOUNDARY SURVEY ROUTE 109, SANFORD, MAINE REJUVENATION OF GRAVEL PITS THE DARTMOUTH COMPANY, 489 CONGRESS STREET, PORTLAND, MAINE" DATED OCTOBER 1, 1987 BY LAND USE CONSULTANTS. A COPY OF THIS PLAN WAS OBTAINED FROM THE CITY OF SANFORD, MAINE.
   E. "LAND SURVEYED FOR SANFORD INSTITUTION FOR SAVINGS, LOCATED AT 450 MAIN STREET – MAINE ROUT 109, SANFORD, MAINE" DATED APRIL 1995 BY T.W. BULLARD. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 221, PAGE 33.
   F. "SITE PLAN OF MAYFLOWER PLACE, ROUTE 109, SANFORD, MAINE FOR SANFORD HOUSING AUTHORITY, YALE STREET, SANFORD, MAINE 04073" DATED JULY 2, 1999 BY SEBAGO TECHNICS, INC. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 259, PAGE 40.
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LEGEND

EXISTING	DESCRIPTION	PROPOSED
	BOUNDARY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	DEED LINE/ROW	
	TIE LINE	
	SETBACK	
	EASEMENT	
	MONUMENT	
	IRON PIPE/ROD	
	5/8" REBAR TO BE SET	
C1/L1	DEED CALL	
C1/L1	CURVE/LINE NO.	
	BUILDING	
	WETLANDS	
	UPLAND	
	EDGE WETLAND	
	SIGN	
	STREAM	
	ROCK OUTCROP	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	GRAVEL ROAD	
	CURBLINE	
	EDGE WATER	
	TREELINE/SHRUBLINE	
.120.00	SPOT GRADE	
---120--- ---118---	CONTOURS	
	STOCKADE FENCE	
	STONE WALL	
	GUARDRAIL	
W	WATER	
	WATER GATE VALVE	
	WATER SHUT OFF	
	HYDRANT	
S	SEWER	
	SEWER MH	
	CATCH BASIN	
	DRAINAGE MH	
	CULVERT	
	OVERHEAD UTILITIES	
	LIGHT POLE/WALL	
	UTILITY POLE	
N/F	NOW OR FORMERLY	
15046/796	BOOK/PAGE	
R12-21	SANFORD TAX MAP-LOT	
1393	MONUMENT NUMBER	
YCRD	YORK COUNTY REGISTRY OF DEEDS	
	FLOODPLAIN	
BENCHMARK DESCRIPTION WITH ELEVATION	BENCHMARK	

GRAPHIC SCALE
200 0 100 200 400
(IN FEET)
1 INCH = 200FT.

SURVEYOR'S STATEMENT

THIS SURVEY WAS PERFORMED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, IT WAS DONE IN ACCORDANCE WITH CHAPTER 90, PART 1 (PROFESSIONAL STANDARDS OF PRACTICE) AND PART 2 (TECHNICAL STANDARDS OF PRACTICE) OF THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS.

CHARLES D. MARCHESE NOVEMBER 17, 2015
MAINE PLS 2009

PREVIOUS REVISIONS

D	CDM	6-18-14	MISC. PLAN EDITS
C	CDM	6-16-14	ADDED NOTE 15
B	CDM	6-13-14	UPDATED ACREAGES NOTE 4
A	CDM	6-13-14	UPDATING BOUNDARY FOR TOWNHOUSE PROPERTIES PARCELS

CHARLES D. MARCHESE, ME PLS 2009

STATE OF MAINE – CHARLES D. MARCHESE No. 2009 – PROFESSIONAL LAND SURVEYOR

DESIGNED	CHECKED
CDM	CLB

REV:	BY:	DATE:	STATUS:
L	CAB	02-11-16	BID DOCUMENTS
K	CAB	12-18-15	CONSTRUCTION DOCUMENTS
J	CAB	11-12-15	REVISED PER CITY COMMENTS & REISSUED
I	CAB	11-17-15	ISSUED FOR 85%
H	CDM	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
G	CAB	10-20-15	ISSUED FOR 75%
F	CAB	09-02-15	ISSUED FOR 60%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

EXISTING CONDITIONS PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

RECORD OWNER: SEE NOTE 1

PROJECT NO.	SCALE
12233	1" = 200'

SHEET C2 OF C75

CIVIL3D-12233EC.dwg, TAB:12233EC

GENERAL NOTES

1. THE RECORD OWNER OF THE PROPERTY IS THE CITY OF SANFORD, MAINE BY DEEDS DATED JUNE 18, 2015 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS IN BOOK 17039, PAGE 634 AND BOOK 17039, PAGE 638.

2. THE PROPERTY IS SHOWN AS LOTS 18A, 19B AND 224 ON THE CITY OF SANFORD TAX MAP R12 AND LOT 26B ON THE CITY OF SANFORD TAX MAP R15 AND IS LOCATED IN THE IN THE URBAN ZONE (SB). PORTIONS OF THE LOCUS PROPERTY ALONG THE MOUSAM RIVER FALL WITHIN THE SHORELAND OVERLAY AND RESOURCE PROTECTION DISTRICTS AND ARE SUBJECT TO THE CITY OF SANFORD ZONING REQUIREMENTS.

3. PACE AND BULK CRITERIA FOR THE THE (U) ZONING DISTRICT IS AS FOLLOWS:

MAXIMUM NET RESIDENTIAL DENSITY:	1 UNIT/5000 SF FOR 1ST 2 UNITS - 1 ADDITIONAL UNIT EACH 2500 SF OF NET LOT AREA
MINIMUM LOT SIZE:	5,000 SF
MINIMUM STREET FRONTAGE:	50 FEET
MINIMUM FRONT YARD:	20 FEET
MINIMUM SIDE YARD:	NONE (EXCEPT RESIDENTIAL BUFFER APPLIES)
MINIMUM REAR YARD:	NONE (EXCEPT RESIDENTIAL BUFFER APPLIES)
MAXIMUM BUILDING HEIGHT:	55 FEET

* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION

4. THE AREA OF THE PARCEL IS APPROXIMATELY 113.5 ACRES AS MEASURED TO THE TIE LINES DEPICTED HEREON. THE TOTAL AREA OF THE PARCEL MEASURED TO THE APPROXIMATE CENTER LINE MEANDERS OF THE MOUSAM RIVER IS APPROXIMATELY 131.9 ACRES.

5. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNICS, INC. IN AUGUST AND SEPTEMBER OF 2013. THE TOPOGRAPHIC SURVEY IS A COMBINATION OF AERIAL PHOTOGRAMMETRIC MAPPING BY KAPPA MAPPING, INC. AND GROUND SURVEY OF OBSCURED AREAS BY SEBAGO TECHNICS, INC IN SEPTEMBER 2013.

6. PLAN REFERENCES:
   A. "PLAN SHOWING LAND IN SANFORD, MAINE TO BE PURCHASED BY BARRY C. WEYLAND AND ROBERT R. VALLIERE" DATED AUGUST 1977 BY MIDDLE BRANCH ENGINEERING. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 88, PAGE 41.
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   C. "STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE HIGHWAY "7" SANFORD, YORK COUNTY, FEDERAL AID PROJECT NO. F-07-1(7)" DATED JANUARY 1987", D.O.T. FILE NO. 16-300, SHEETS 2 & 3 OF 4. THIS PLAN IS RECORDED AT THE YCRD IN PLAN BOOK 161, PAGE 26 & 27.
   D. "STANDARD BOUNDARY SURVEY ROUTE 109, SANFORD, MAINE REJUVENATION OF GRAVEL PITS THE DARTMOUTH COMPANY, 489 CONGRESS STREET, PORTLAND, MAINE" DATED OCTOBER 1, 1987 BY LAND USE CONSULTANTS. A COPY OF THIS PLAN WAS OBTAINED FROM THE CITY OF SANFORD, MAINE.
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16. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL BMPS" MANUAL PUBLISHED BY BUREAU OF LAND AND WATER QUALITY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2003 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND SHRUBS ON THE PROJECT WHICH ARE NOT TO BE REMOVED. CLEAR TREES AS SHOWN ON THE PLANS HEREON. PRIOR TO DISTURBANCE, THE PROPOSED TREE LINE IN THE VICINITY OF THE WOODED BUFFERS SHALL BE STAKED BY A MAINE LICENSED LAND SURVEYOR TO VERIFY COMPLIANCE WITH THE STORMWATER MANAGEMENT DESIGN.

18. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE. THE DEVELOPER, OR AN AUTHORIZED AGENT, MUST BE AVAILABLE AT ALL TIMES DURING CONSTRUCTION.

19. THE PROJECT IS LOCATED IN OR WITHIN PROXIMITY TO PROTECTED NATURAL RESOURCES, INCLUDING WETLANDS, STREAMS AND HABITATS. THE CONTRACTOR SHALL WORK IN COMPLIANCE WITH THE NATURAL RESOURCES PROTECTION ACT (NRPA) PERMIT FROM THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND INDIVIDUAL PERMIT FROM THE ARMY CORPS OF ENGINEERS. THESE ENVIRONMENTAL PERMIT APPLICATIONS AND CONDITIONS OF APPROVAL ARE INCLUDED IN APPENDIX OF THE SPECIFICATIONS. VARIATION FROM THE WORK DESCRIBED IN THESE PERMITS MUST BE APPROVED IN WRITING FROM THESE REGULATORY AGENCIES PRIOR TO CONSTRUCTION. WETLANDS SHALL NOT BE IMPACTED UNLESS SHOWN ON THIS PLAN. WETLANDS SHALL BE FLAGGED PRIOR TO CONSTRUCTION.

20. ALL EXISTING CATCH BASINS, MANHOLES, CONNECTIONS, CONDUIT AND PIPING SHALL BE CLEANED AND LEFT IN SATISFACTORY OPERATING CONDITION AFTER CONSTRUCTION HAS BEEN COMPLETED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.

21. ALL LAWN AREAS, WALKWAYS, AND DRIVEWAYS OUTSIDE THE WORK AREA, DAMAGED BY THE CONTRACTOR, SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE.

22. EXISTING PAVEMENT SHALL BE SAW CUT AND BUTTED TO THE NEW PAVEMENT. NO FEATHERING OF PAVEMENT WILL BE PERMITTED.

23. EXISTING DRAINAGE STRUCTURES SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED BY THE ENGINEER.

24. BEFORE CONNECTING NEW PIPES TO AN EXISTING SEWER LINE, THE CONTRACTOR SHALL NOTIFY THE SANFORD SEWER DISTRICT. NO WORK SHALL BE DONE WITHOUT THEIR APPROVAL.

25. THE CONTRACTOR IS REQUIRED TO PROVIDE A SECURE PROJECT WORK AREA AND SHALL PROVIDE AND INSTALL 8' TEMPORARY CHAIN LINK SAFETY FENCING FOR ALL ACTIVE /STAGING AREAS THROUGHOUT CONSTRUCTION. ALL PIPE TRENCH EXCAVATIONS SHALL BE BACKFILLED AND "CLOSED" DURING CONTRACTOR NON-WORKING HOURS INCLUDING NIGHTS, HOLIDAYS AND WEEKENDS. THE CONTRACTOR MAY REQUEST IN WRITING TO THE ENGINEER AND OWNER TO SECURE OPEN EXCAVATION IN LIEU OF BACKFILLED AND "CLOSED." NOT ALLOWING A SECURE OPEN EXCAVATION SHALL NOT BE A BASIS FOR CLAIMS AGAINST THE OWNER.

26. THE CITY RESERVES THE RIGHT TO PROHIBIT LEFT-TURNS AND THRU MOVEMENTS IN THE FUTURE AND SHALL BE CONSULTED TWO WEEKS BEFORE THE FINAL STRIPING AT OLD MILL ROAD AND MAIN STREET INTERSECTION.

27. CONTRACTOR SHALL COMPLETE WORK SPECIFIED ON EACH PLAN AND SHALL COORDINATE WORK WITH ENTIRE PROJECT PLAN SET.

TRAFFIC NOTES

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN A SAFE MANNER AT ALL TIMES DURING CONSTRUCTION. THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MANUAL FOR BOTH WORK ZONE AND TRAFFIC CONTROL REQUIREMENTS SHALL APPLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A TRAFFIC CONTROL PLAN TO BE APPROVED BY THE ENGINEER. COORDINATE TRAFFIC PLAN WITH THE PUBLIC WORKS DIRECTOR AS PART OF THE HIGHWAY EXCAVATION PERMIT REQUIRED BY THE CITY. TRAFFIC SIGNAGE SHALL COMPLY WITH THE M.U.T.C.D. CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC DURING DAYTIME CONSTRUCTION AND SHALL RESTORE SITE TO TWO LANES AT END OF EACH WORK DAY.
2. CONTRACTOR SHALL MAINTAIN SAFE AND PASSABLE DRIVEWAY ACCESS AT ALL TIMES. TEMPORARY INTERRUPTIONS MAY BE ALLOWED WITH PROPERTY OWNER AND PUBLIC WORKS DIRECTOR AUTHORIZATION.
3. CONTRACTOR IS RESPONSIBLE FOR INVENTORYING ALL SIGNS, MAILBOXES, STONE WALLS, ETC. PRIOR TO CONSTRUCTION AND SHALL RESTORE ALL FEATURES TO PRE-CONSTRUCTION CONDITION.
4. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR WORK WITHIN ROUTE 109 & ROUTE 4. SIGNAGE SHALL BE INSTALLED IN CONFORMANCE WITH MUTCD. THE CONTRACTOR SHALL PROVIDE FLAGGERS AND MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES. TWO LANE TRAFFIC SHALL BE RESTORED AT END OF EACH WORK DAY.
5. THE APPLICANT SHALL NOTIFY IN WRITING THE MAINE DOT AND SANFORD PUBLIC WORKS DEPARTMENT IF ANY CHANGES ARE MADE THAT WILL IMPACT THE MAINE DOT TRAFFIC MOVEMENT PERMIT FOR THE PROJECT.

PARKING

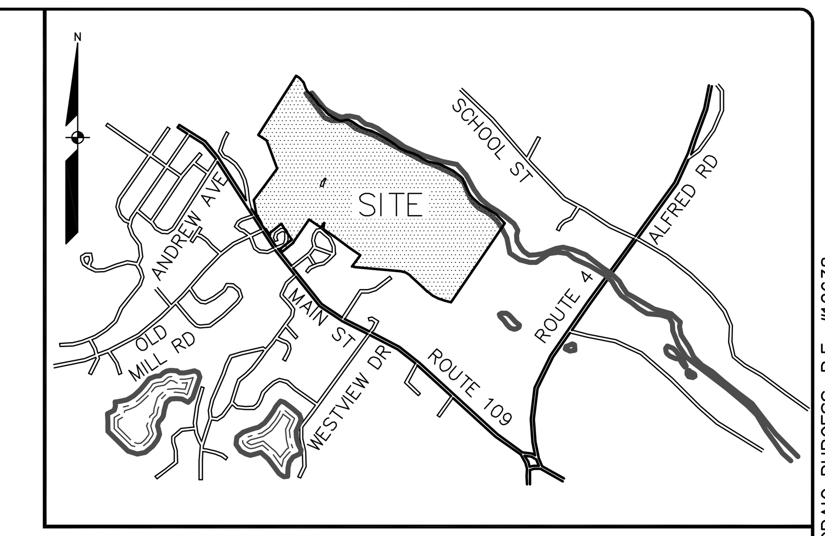
	TOTAL SPACES	ADA SPACES
VISITOR/STUDENT/FACULTY PARKING	428	12
ATHLETIC PARKING	86	4
GRAVEL PARKING	53	

PROPERTY LINE TABLE

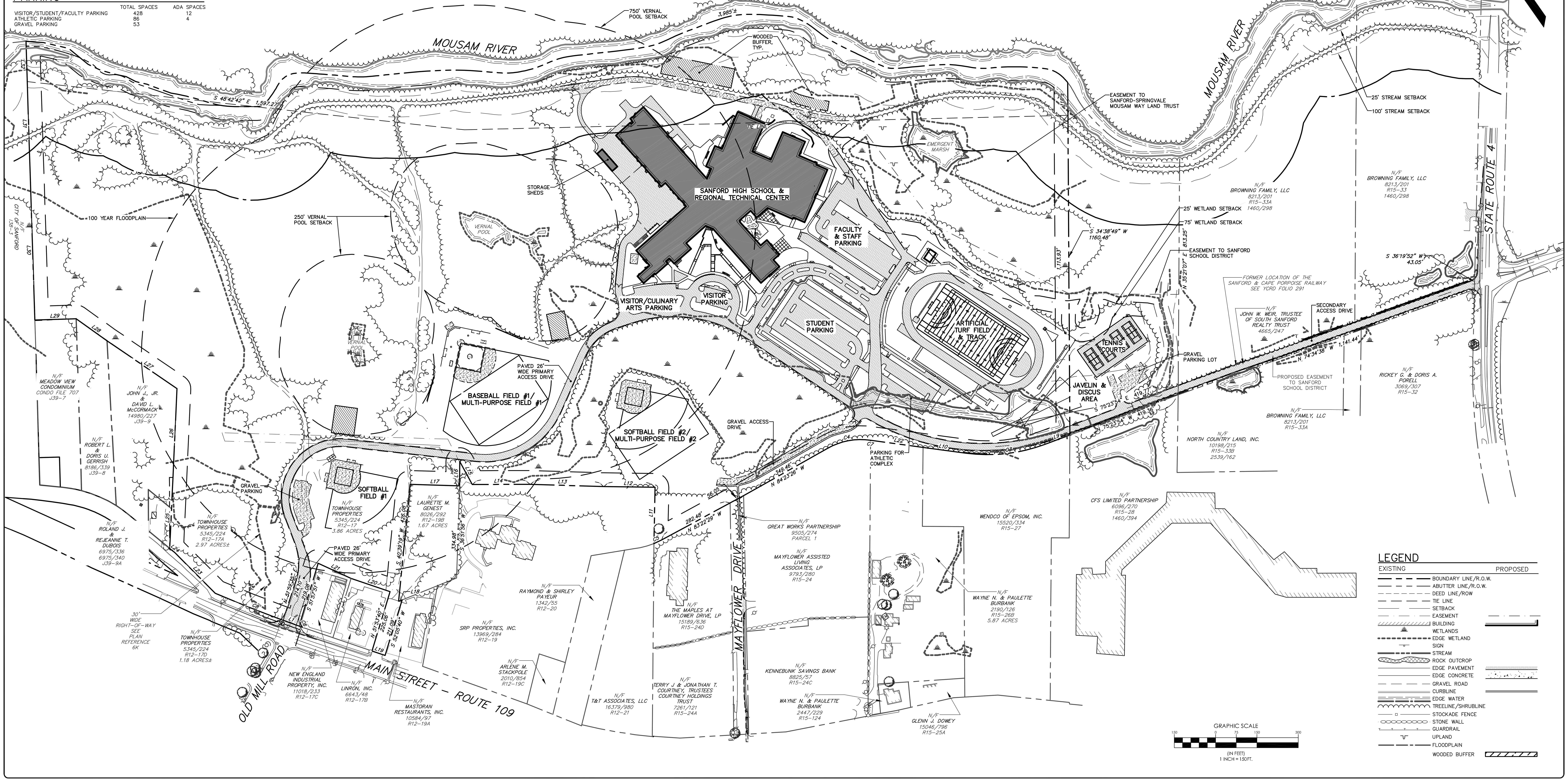
LINE	DIRECTION	DISTANCE
L1	S 35°07'19" E	100.89'
L2	S 36°12'18" W	54.93'
L3	S 53°50'43" E	121.72'
L4	S 53°52'09" W	187.94'
L5	S 12°18'09" W	139.74'
L6	S 16°08'48" W	144.69'
L7	S 27°38'45" W	88.70'
L8	S 36°44'12" W	198.08'
L9	S 75°23'54" E	97.12'
L10	S 47°17'31" E	157.29'
L11	N 36°04'48" E	204.57'
L12	N 54°17'53" W	186.24'
L13	N 53°14'10" W	267.20'
L14	N 55°10'26" W	210.39'
L15	N 6°37'55" E	95.01'
L16	S 35°30'30" W	88.33'
L17	N 53°22'24" W	179.25'
L18	N 75°36'06" W	13.74'
L19	S 36°11'47" E	49.98'
L20	S 36°11'51" E	149.60'
L21	S 30°12'14" E	131.29'
L22	S 47°17'31" E	187.97'
L23	N 9°55'39" W	208.78'
L24	N 15°36'20" W	23.32'
L25	S 37°35'58" W	257.32'
L26	S 37°35'58" W	323.64'
L27	N 20°38'51" W	307.87'
L28	N 19°30'19" W	137.50'
L29	N 56°49'23" W	150.00'
L30	N 33°10'37" E	534.95'
L31	N 33°10'37" E	331.01'
L32	N 33°10'37" E	146.06'

PROPERTY CURVE TABLE

CURVE	LENGTH	RADIUS	CRD. BEARING	CRD. DIST.
C1	32.62'	20.01'	S 81°19'01" E	29.13'
C2	47.17'	170.13'	N 44°02'34" E	47.02'
C3	290.90'	593.00'	S 61°20'42" E	287.99'
C4	162.20'	242.82'	N 65°41'48" W	159.20'
C5	30.49'	277.82'	S 80°13'52" E	30.47'
C6	31.08'	19.99'	S 7°56'31" W	28.05'
C7	4.06'	250.00'	N 46°39'52" W	4.06'
C8	244.99'	4933.22'	S 33°10'45" E	244.96'



LOCATION MAP
N.T.S.



CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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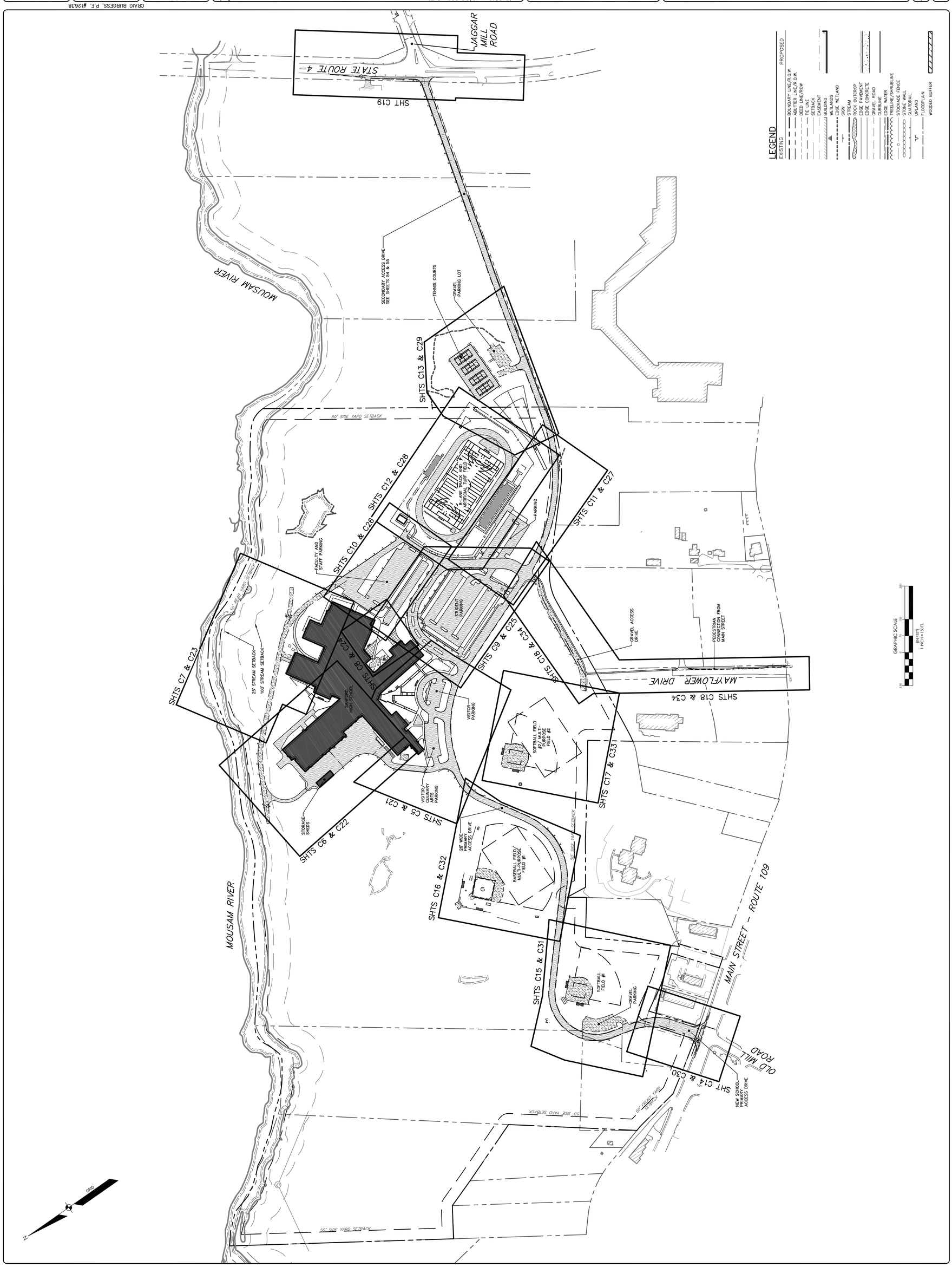
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

OVERALL SITE PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 150'

SHEET C3 OF C75

12233OAS.dwg, TAB: OAS-SHT 3



CRAIG BURGESS, P.E. #12638

DESIGNED	CHECKED
CAB	KSM

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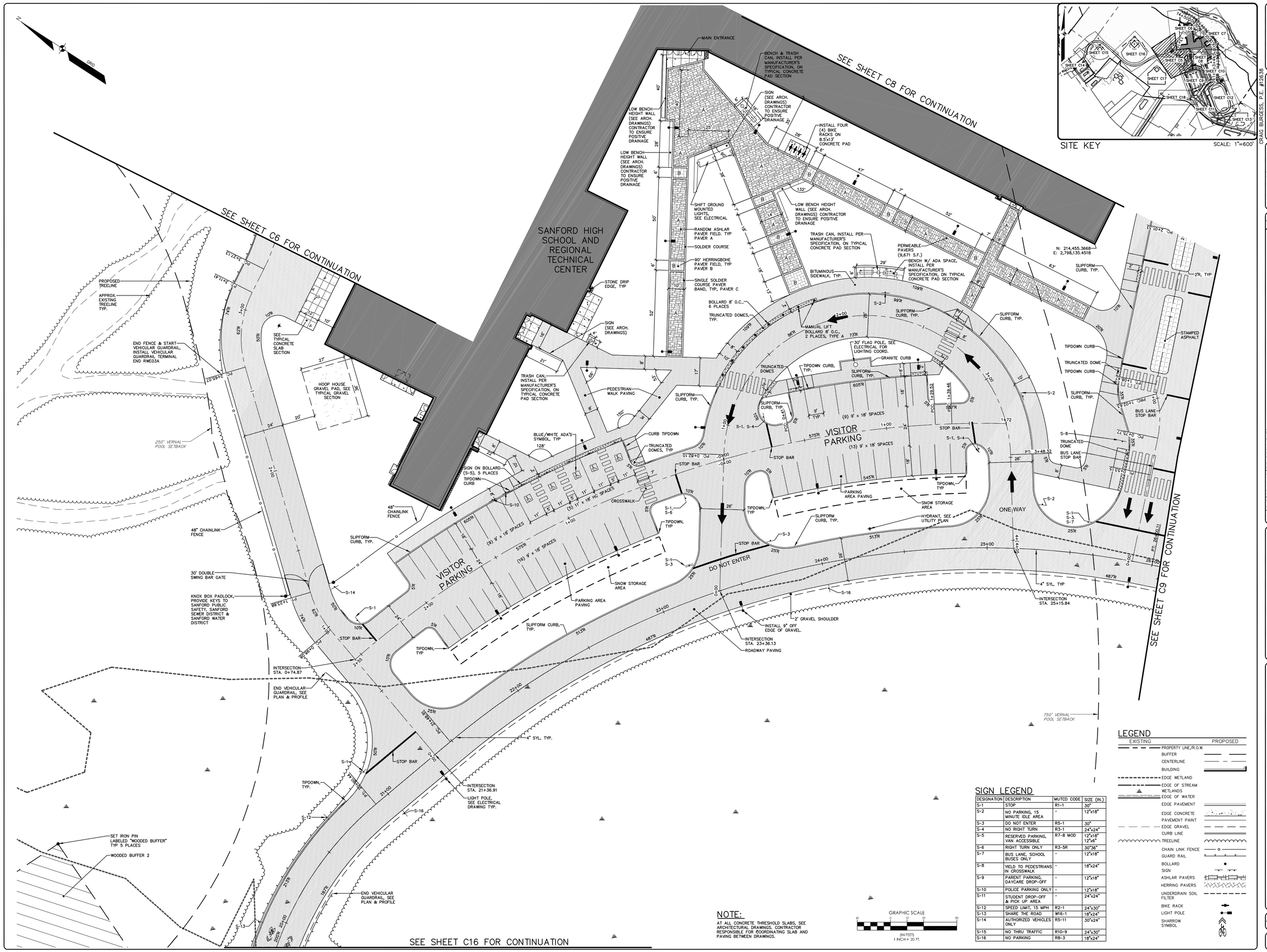
PLAN INDEX
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
OR
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 150'

SHEET C4 OF C75

12233N.dwg, TAB:INDEX-SHT 4



NOTE:

AT ALL CONCRETE THRESHOLD SLABS, SEE ARCHITECTURAL DRAWINGS. CONTRACTOR RESPONSIBLE FOR COORDINATING SLAB AND PAVING BETWEEN DRAWINGS.

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FT.

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
S-3	DO NOT ENTER	R5-1	30"
S-4	NO RIGHT TURN	R3-1	24"x24"
S-5	RESERVED PARKING, VAN ACCESSIBLE	R7-8 MOD	12"x18" 12"x6"
S-6	RIGHT TURN ONLY	R3-5R	30"x36"
S-7	BUS LANE, SCHOOL BUSES ONLY	-	12"x18"
S-8	YIELD TO PEDESTRIANS IN CROSSWALK	-	18"x24"
S-9	PARENT PARKING, DAYCARE DROP-OFF	-	12"x18"
S-10	POLICE PARKING ONLY	-	12"x18"
S-11	STUDENT DROP-OFF & PICK UP AREA	-	24"x24"
S-12	SPEED LIMIT, 15 MPH	R2-1	24"x30"
S-13	SHARE THE ROAD	W16-1	18"x24"
S-14	AUTHORIZED VEHICLES ONLY	R5-11	30"x24"
S-15	NO THRU TRAFFIC	R10-9	24"x30"
S-16	NO PARKING	R8-3	18"x24"

LEGEND

EXISTING / PROPOSED

- PROPERTY LINE/R.O.W.
- BUFFER
- CENTERLINE
- BUILDING
- EDGE WETLAND
- EDGE OF STREAM
- WETLANDS
- EDGE OF WATER
- EDGE PAVEMENT
- EDGE CONCRETE
- PAVEMENT PAINT
- EDGE GRAVEL
- CURB LINE
- TREELINE
- CHAIN LINK FENCE
- GUARD RAIL
- BOLLARD
- SIGN
- ASHLAR PAVERS
- HERRING PAVERS
- UNDERDRAIN SOIL FILTER
- BIKE RACK
- LIGHT POLE
- SHARROW SYMBOL

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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H	CAB	11-25-15	RESUBMITTED TO DEP
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F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SITE PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

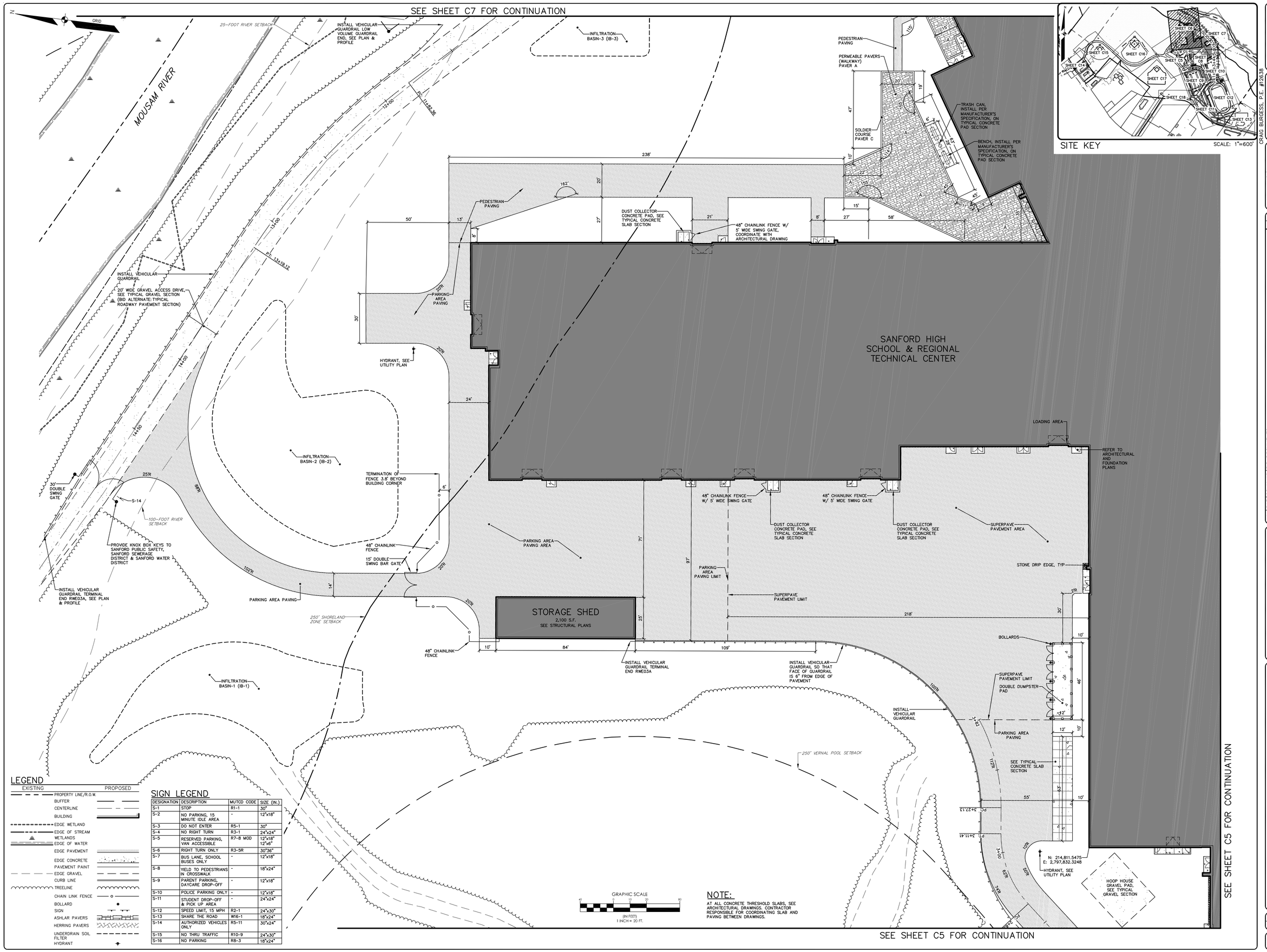
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C5 OFC75

12233S.dwg, TAB:S-SHT 5

SEE SHEET C7 FOR CONTINUATION



NOTE:

AT ALL CONCRETE THRESHOLD SLABS, SEE ARCHITECTURAL DRAWNGS. CONTRACTOR RESPONSIBLE FOR COORDINATING SLAB AND PAVING BETWEEN DRAWINGS.

LEGEND

EXISTING	PROPOSED
PROPERTY LINE/R.O.W.	
BUFFER	
CENTERLINE	
BUILDING	
EDGE WETLAND	
EDGE OF STREAM	
WETLANDS	
EDGE OF WATER	
EDGE PAVEMENT	
EDGE CONCRETE	
PAVEMENT PAINT	
EDGE GRAVEL	
CURB LINE	
TREELINE	
CHAIN LINK FENCE	
BOLLARD	
SIGN	
ASHLAR PAVERS	
HERRING PAVERS	
UNDERDRAIN SOIL FILTER	
HYDRANT	

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
S-3	DO NOT ENTER	R5-1	30"
S-4	NO RIGHT TURN	R3-1	24"x24"
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S-12	SPEED LIMIT, 15 MPH	R2-1	24"x30"
S-13	SHARE THE ROAD	W16-1	18"x24"
S-14	AUTHORIZED VEHICLES ONLY	R5-11	30"x24"
S-15	NO THRU TRAFFIC	R10-9	24"x30"
S-16	NO PARKING	R8-3	18"x24"

SEE SHEET C5 FOR CONTINUATION

SEE SHEET C5 FOR CONTINUATION

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
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LICENSED LANDSCAPE ARCHITECT
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G	CAB	11-17-15	ISSUED FOR 85% CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
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DESIGNED	CHECKED
CAB	KSM

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SANFORD, MAINE 04073
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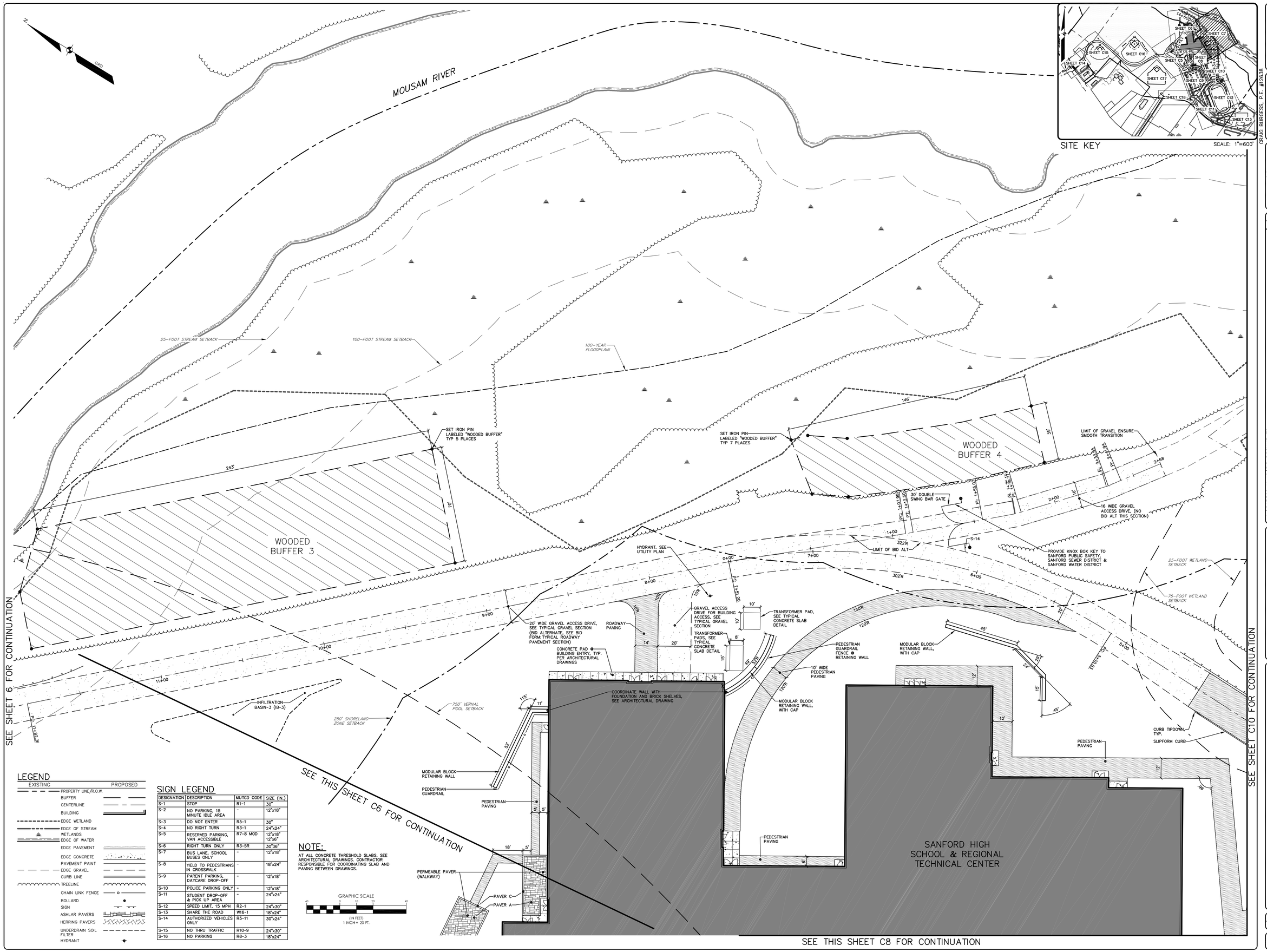
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C6 OFC75

12233S.dwg, TAB:S-SHT 6



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
	CENTERLINE	
	BUILDING	
	EDGE WETLAND	
	EDGE OF STREAM	
	WETLANDS	
	EDGE OF WATER	
	EDGE PAVEMENT	
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	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	BOLLARD	
	SIGN	
	ASHLAR PAVERS	
	HERRING PAVERS	
	UNDERDRAIN SOIL FILTER	
	HYDRANT	

SIGN LEGEND

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NOTE:

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CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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STATE OF MAINE

DESIGNED	CHECKED
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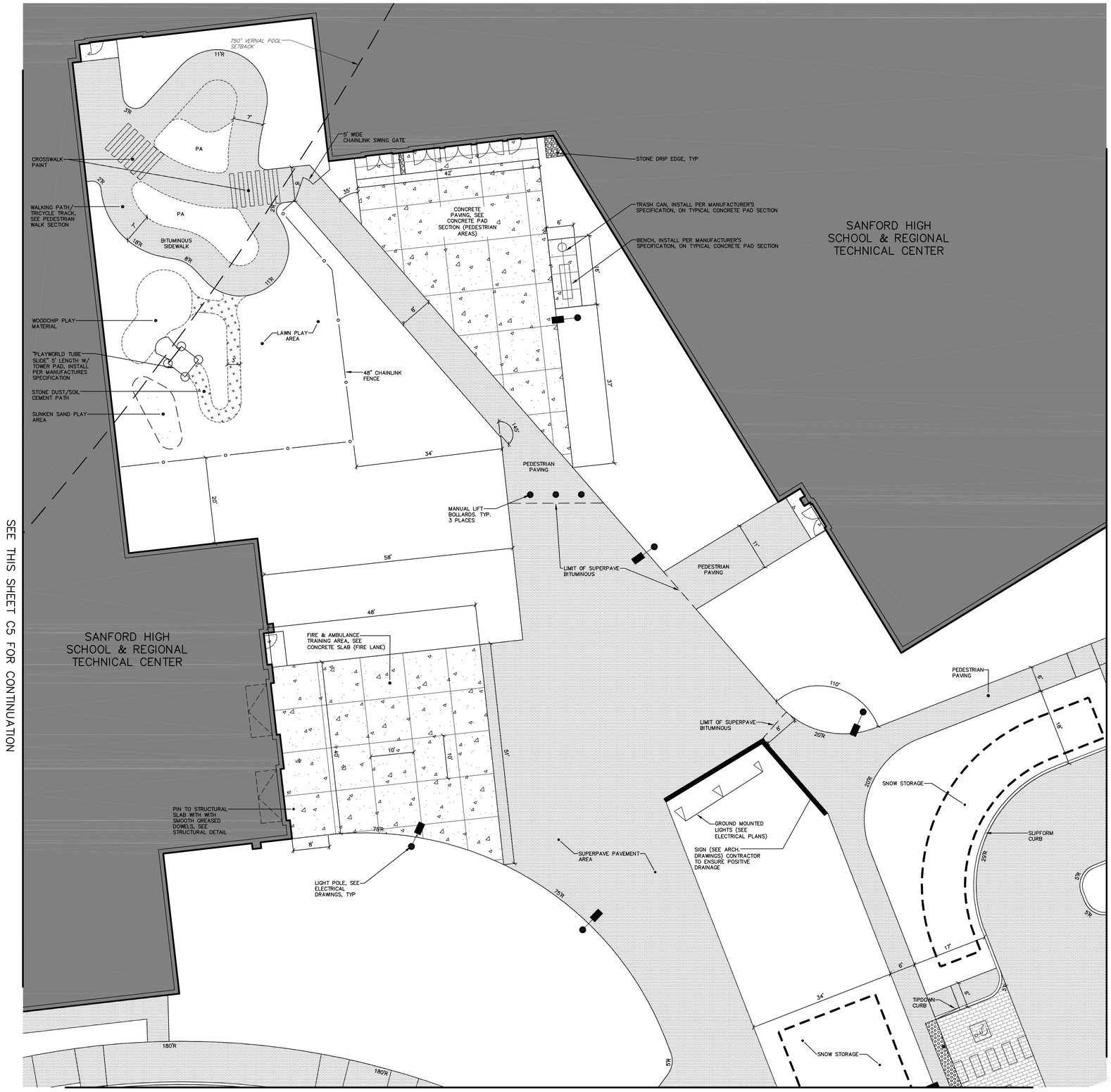
SANFORD, MAINE 04073

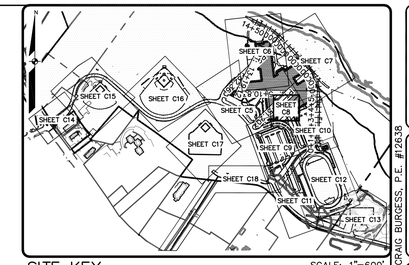
PROJECT NO.	SCALE
12233	1" = 20'

SHEET C7 OFC75

12233S.dwg, TAB:S-SHT 7



EASTERLY ENTRANCE
SCALE: 1"=10'



SITE KEY
SCALE: 1"=600'

GRAPHIC SCALE
(IN FEET)
1 INCH = 10 FT.

NOTE:

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LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
	CENTERLINE	
	BUILDING	
	EDGE WETLAND	
	EDGE OF STREAM	
	WETLANDS	
	EDGE OF WATER	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	BOLLARD	
	SIGN	
	ASHLAR PAVERS	
	HERRING PAVERS	
	UNDERDRAIN SOIL FILTER	
	LIGHT POLE	

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ROUTE 109 & ROUTE 4
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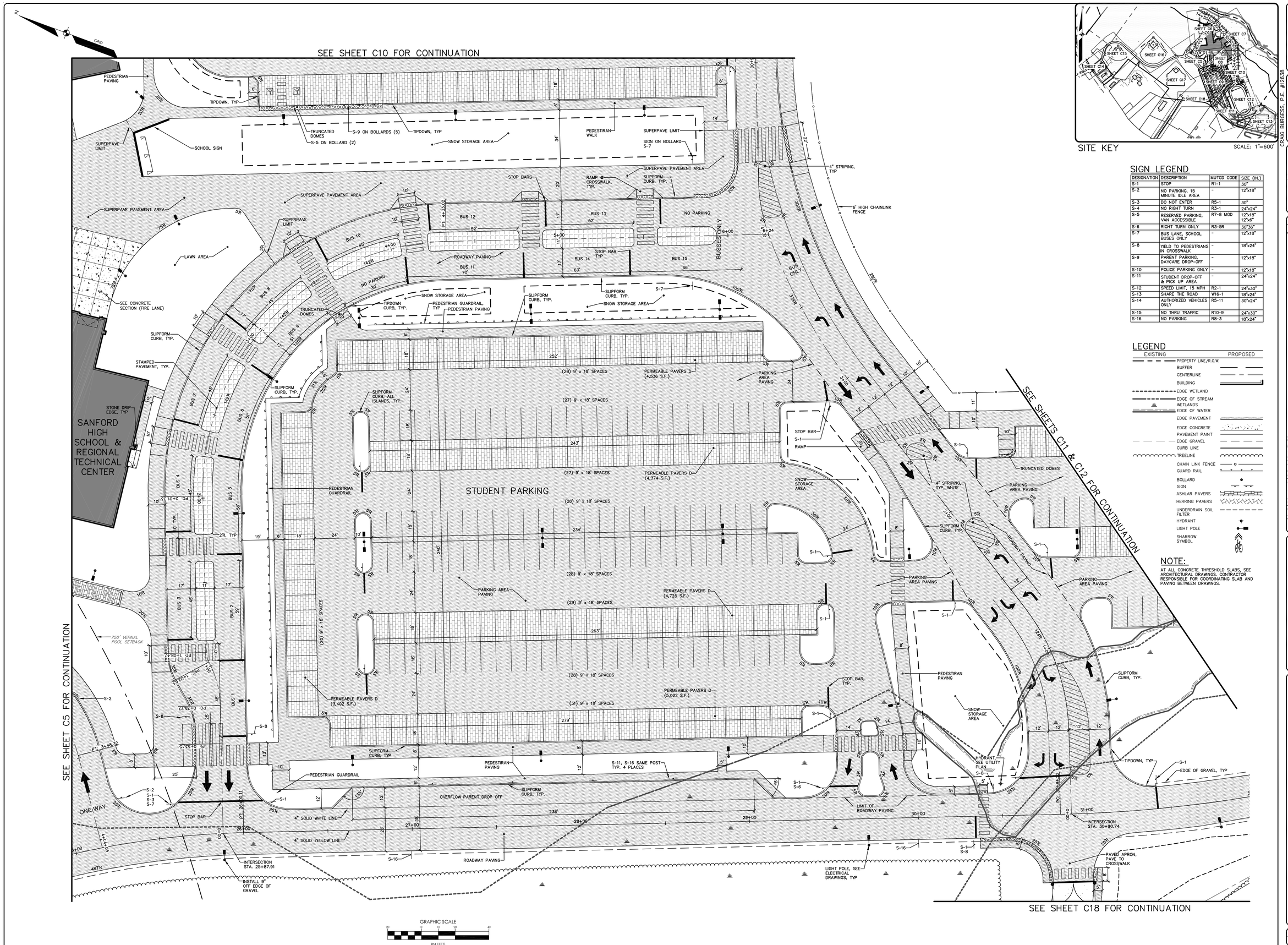
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 10'

SHEET C8 OFC75

12233S.dwg, TAB:S-SHT 8



SITE KEY

SCALE: 1"=600'

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
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LEGEND

EXISTING / PROPOSED

- PROPERTY LINE/R.O.W.
- BUFFER
- CENTERLINE
- BUILDING
- EDGE WETLAND
- EDGE OF STREAM
- WETLANDS
- EDGE OF WATER
- EDGE PAVEMENT
- EDGE CONCRETE
- PAVEMENT PAINT
- EDGE GRAVEL
- CURB LINE
- TREELINE
- CHAIN LINK FENCE
- GUARD RAIL
- BOLLARD
- SIGN
- ASHLAR PAVERS
- HERRING PAVERS
- UNDERDRAIN SOIL FILTER
- HYDRANT
- LIGHT POLE
- SHARROW SYMBOL

NOTE:

AT ALL CONCRETE THRESHOLD SLABS, SEE ARCHITECTURAL DRAWINGS. CONTRACTOR RESPONSIBLE FOR COORDINATING SLAB AND PAVING BETWEEN DRAWINGS.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

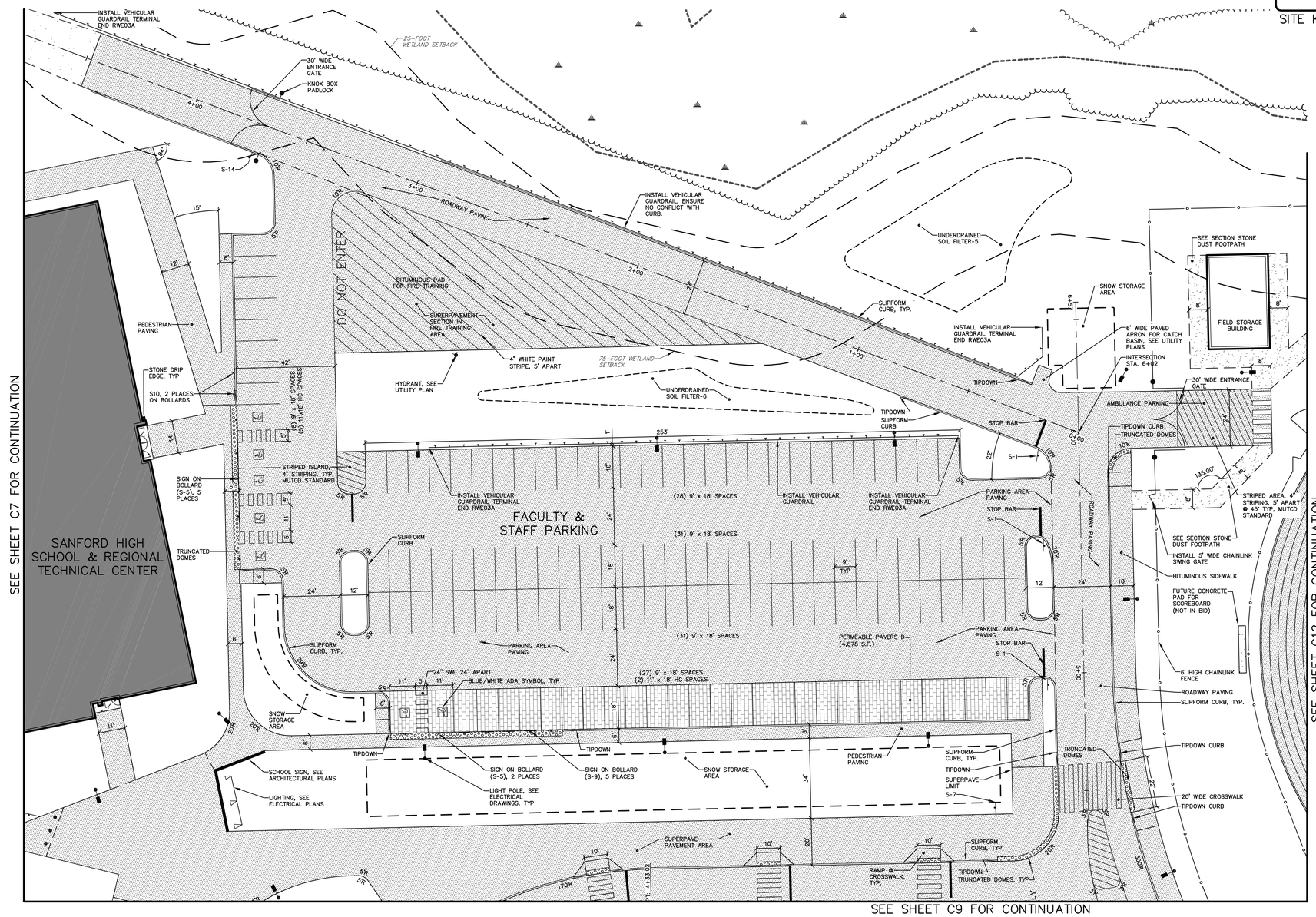
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel. 207-200-2100
250 Gladiolus Rd. Suite 1
Lewiston, ME 04240
Tel. 207-783-5656

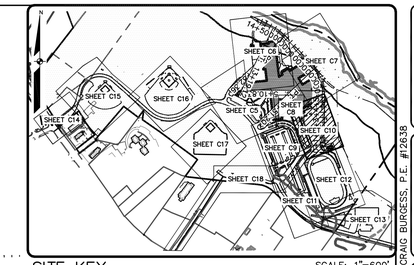
SITE PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C9 OFC75

12233S.dwg, TAB: S-SHT 9





SITE KEY

SCALE: 1"=600'

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
S-3	DO NOT ENTER	R5-1	30"
S-4	NO RIGHT TURN	R3-1	24"x24"
S-5	RESERVED PARKING, VAN ACCESSIBLE	R7-8 MOD	12"x18" 12"x6"
S-6	RIGHT TURN ONLY	R3-5R	30"36"
S-7	BUS LANE, SCHOOL BUSES ONLY	-	12"x18"
S-8	YIELD TO PEDESTRIANS IN CROSSWALK	-	18"x24"
S-9	PARENT PARKING, DAYCARE DROP-OFF	-	12"x18"
S-10	POLICE PARKING ONLY	-	12"x18"
S-11	STUDENT DROP-OFF & PICK UP AREA	-	24"x24"
S-12	SPEED LIMIT, 15 MPH	R2-1	24"x30"
S-13	SHARE THE ROAD	W16-1	18"x24"
S-14	AUTHORIZED VEHICLES ONLY	R5-11	30"x24"
S-15	NO THRU TRAFFIC	R10-9	24"x30"
S-16	NO PARKING	R8-3	18"x24"

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LEGEND

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- CENTERLINE
- BUILDING
- EDGE WETLAND
- EDGE OF STREAM
- WETLANDS
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- EDGE GRAVEL
- CURB LINE
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- CHAIN LINK FENCE
- BOLLARD
- SIGN
- ASHLAR PAVERS
- HERRING PAVERS
- UNDERDRAIN SOIL FILTER
- LIGHT POLE
- HYDRANT

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	RESUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN, SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

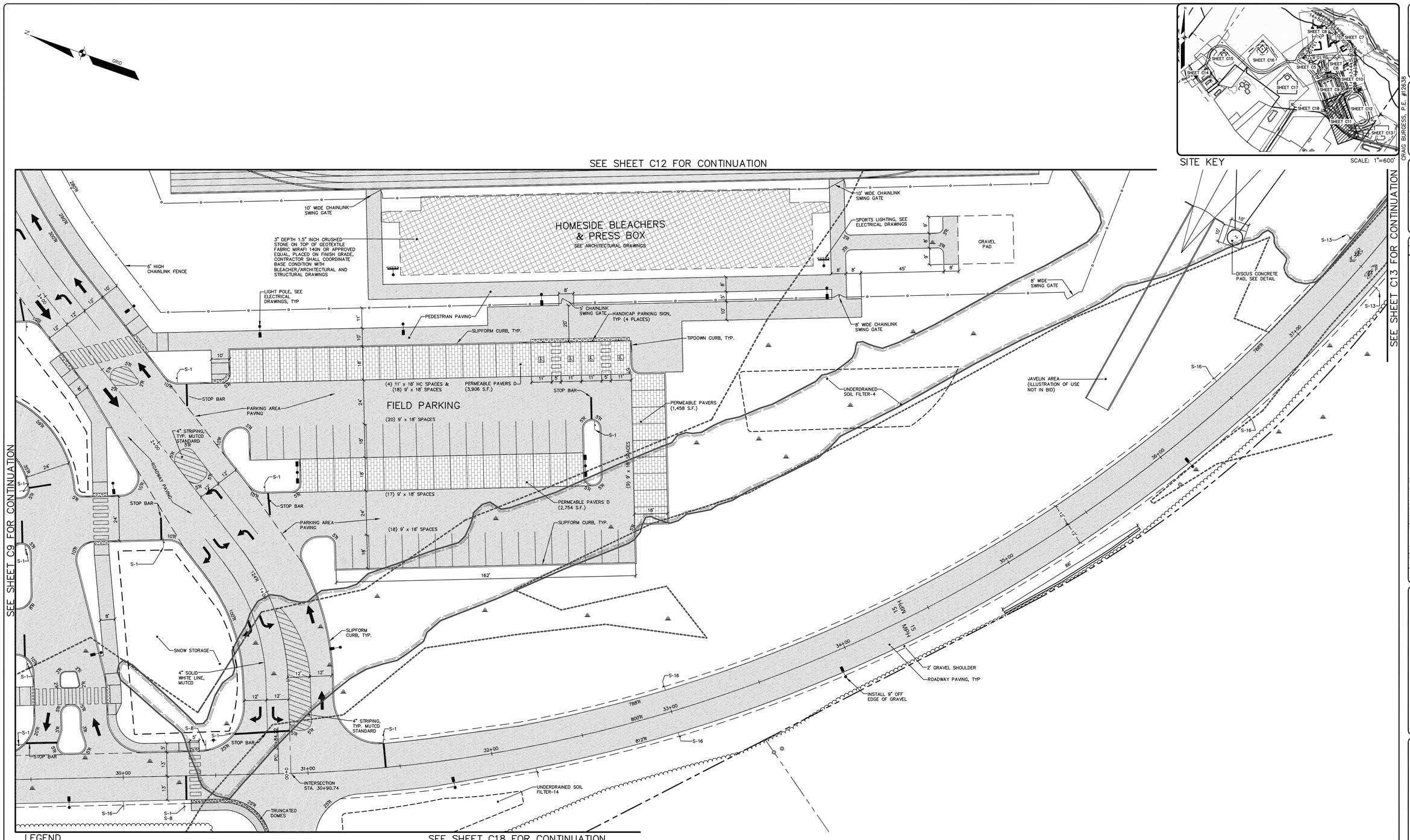
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite A South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Lewiston, ME 04240 Tel: 207-783-9538

SITE PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C10 OF C75

122335.dwg, TAB:S-SHT 10



SITE KEY SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
	CENTERLINE	
	BUILDING	
	EDGE WETLAND	
	EDGE OF STREAM	
	WETLANDS	
	EDGE OF WATER	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	BOLLARD	
	SIGN	
	ASHLAR PAVERS	
	HERRING PAVERS	
	UNDERDRAIN SOIL FILTER	
	LIGHT POLE	
	HYDRANT	
	SHARROW SYMBOL	

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
S-3	DO NOT ENTER	R5-1	30"
S-4	NO RIGHT TURN	R3-1	24"x24"
S-5	RESERVED PARKING, VAN ACCESSIBLE	R7-8 MOD	12"x18" 12"x6"
S-6	RIGHT TURN ONLY	R3-5R	30"36"
S-7	BUS LANE, SCHOOL BUSES ONLY	-	12"x18"
S-8	YIELD TO PEDESTRIANS IN CROSSWALK	-	18"x24"
S-9	PARENT PARKING, DAYCARE DROP-OFF	-	12"x18"
S-10	POLICE PARKING ONLY	-	12"x18"
S-11	STUDENT DROP-OFF & PICK UP AREA	-	24"x24"
S-12	SPEED LIMIT, 15 MPH	R2-1	24"x30"
S-13	SHARE THE ROAD	W16-1	18"x24"
S-14	AUTHORIZED VEHICLES ONLY	R5-11	30"x24"
S-15	NO THRU TRAFFIC	R10-9	24"x30"
S-16	NO PARKING	R8-3	18"x24"

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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F	CAB	11-12-15	ISSUED FOR 85%
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D	CAB	10-20-15	ISSUED FOR 75%

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SITE PLAN
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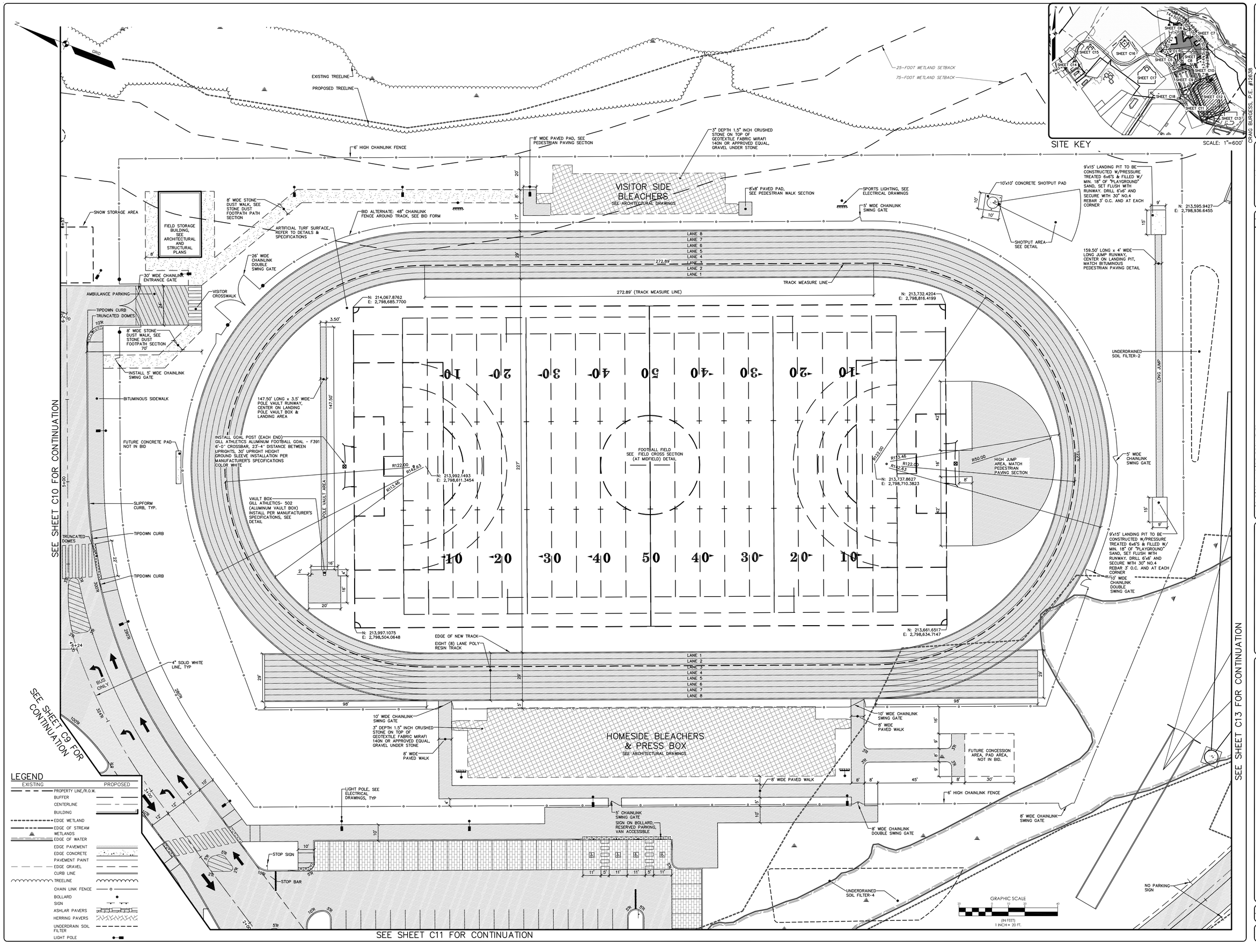
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C110FC75

12233.dwg, TAB: S-SHT 11



CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
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South Portland, ME 04106
Tel: 207-200-2100
250 Gisdland Rd.
Suite 100
Lewiston, ME 04240
Tel: 207-783-5656

SITE PLAN
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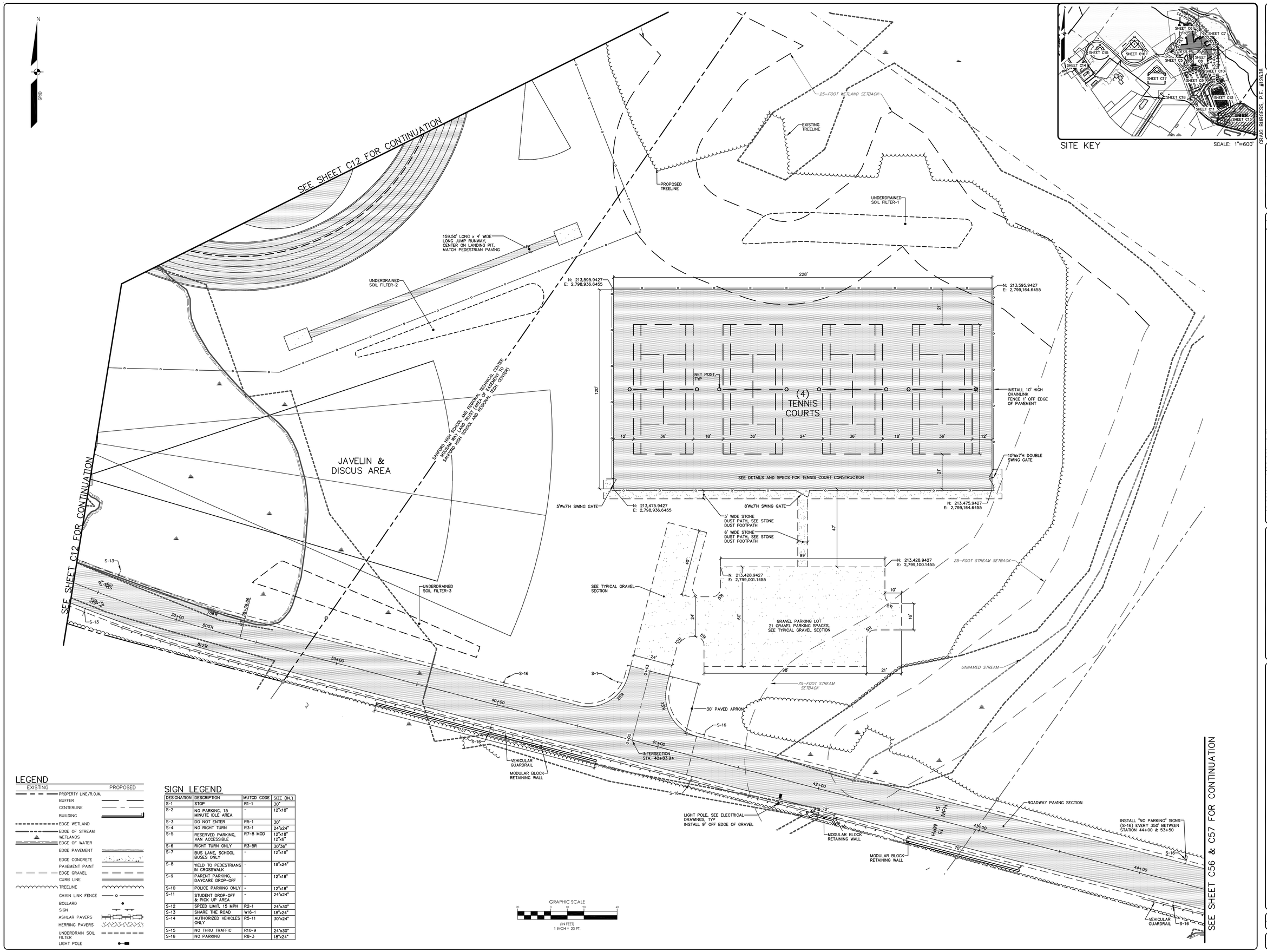
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C12 OF C75

12233S.dwg, TAB:S-SHT 12



SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
	CENTERLINE	
	BUILDING	
	EDGE WETLAND	
	EDGE OF STREAM	
	WETLANDS	
	EDGE OF WATER	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	BOLLARD	
	SIGN	
	ASHLAR PAVERS	
	HERRING PAVERS	
	UNDERDRAIN SOIL FILTER	
	LIGHT POLE	

SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
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CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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250 Gladiola Rd. Suite 1 Lewiston, ME 04240 Tel: 207-783-5656

SITE PLAN
OF:
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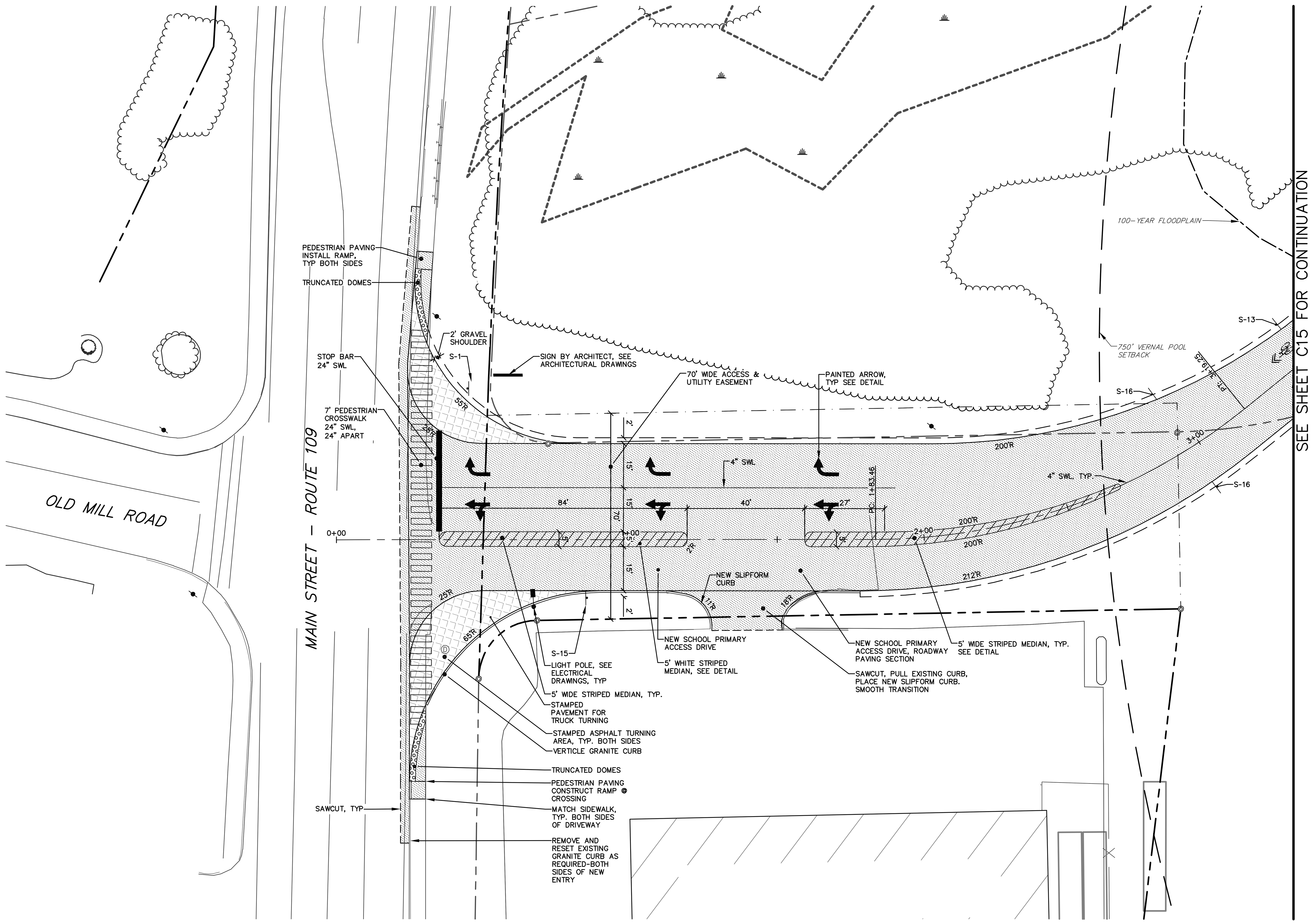
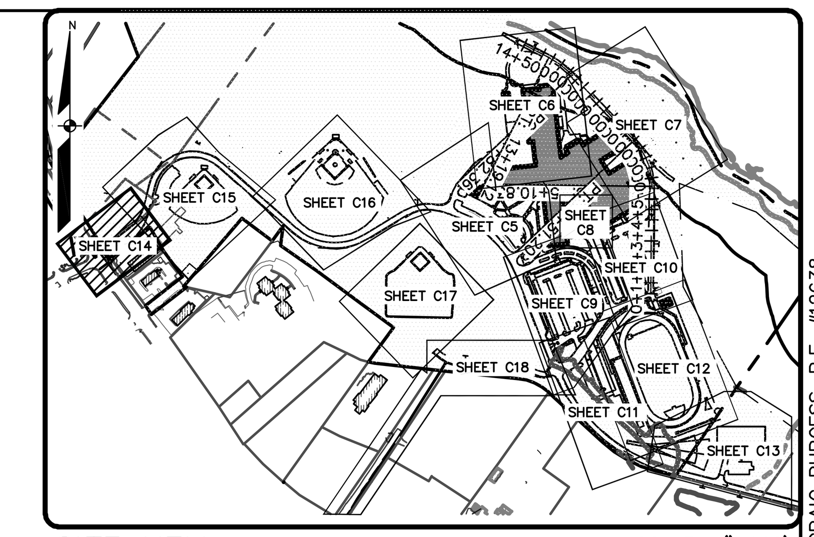
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C13 OF C75

12233.dwg, TAB: S-SHT 13





SITE KEY

SCALE: 1"=600'

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

LEGEND

EXISTING		PROPOSED
✓	PROPERTY LINE/R.O.W.	
✓	ABUTTER LINE/R.O.W.	
	BUFFER	✓
	EASEMENT	✓
✓	FLOODPLAIN	
✓	CENTERLINE	✓
✓	IRON PIPE/ROD	
✓	BUILDING	
✓	EDGE WETLAND	
✓	WETLANDS	
✓	EDGE PAVEMENT	✓
	PAVEMENT SAWCUT	✓
✓	PAVEMENT PAINT	
	EDGE GRAVEL	✓
✓	CURB LINE	✓
✓	TREELINE	✓
✓	DECIDUOUS TREE	
✓	CONIFEROUS TREE	
	SIGN	✓
	GRASSED WALKWAY	✓
	UNDERDRAIN SOIL FILTER	✓
	LIGHT POLE	✓
	SHARROW SYMBOL	✓

SIGN LEGEND

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CRAIG BURGESS, P.E. #12638

STATE OF MAINE — CRAIG A. BURGESS — No. 12638 — LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT — KYLIE S. MASON — 3335 — STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

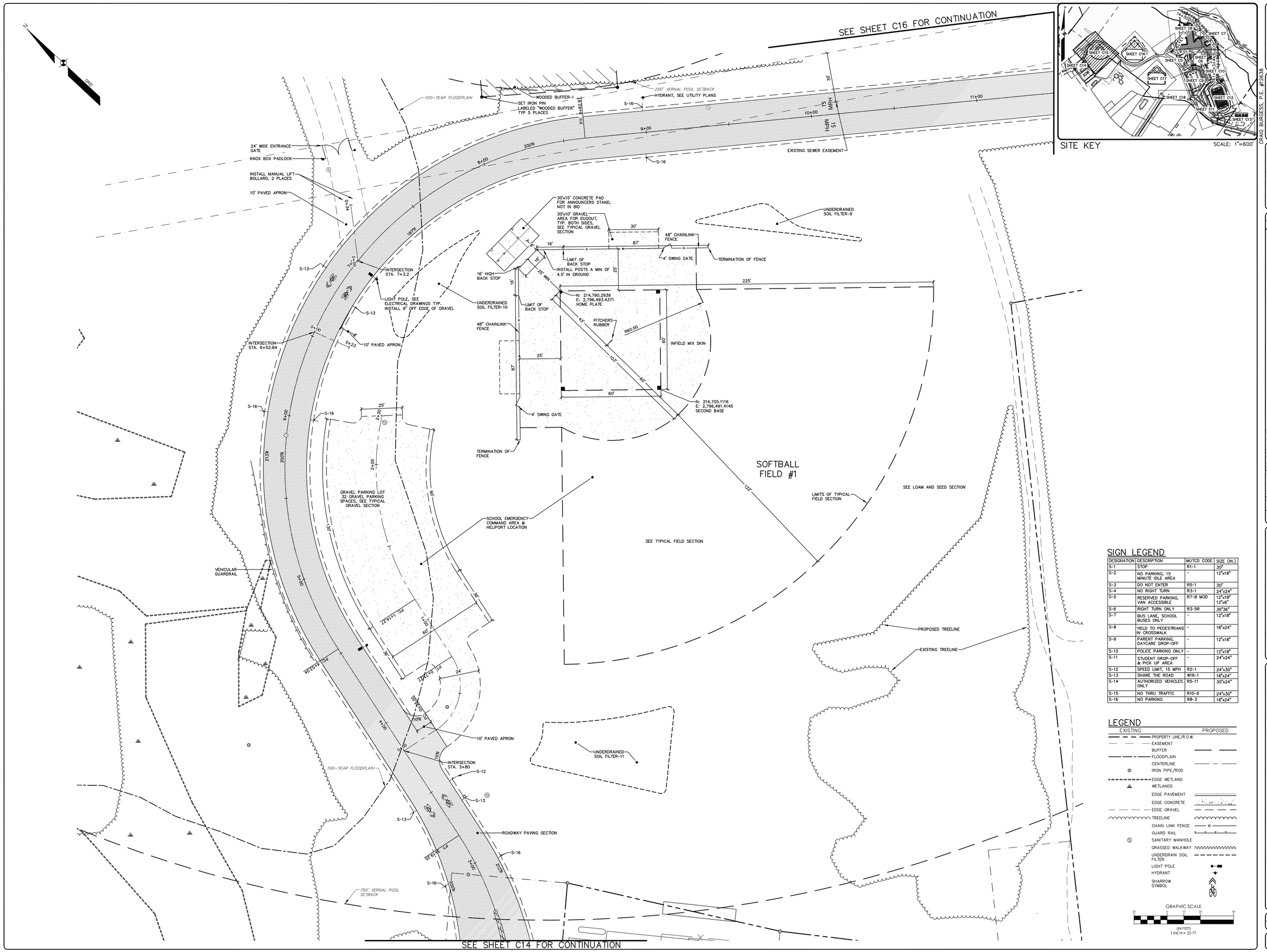
PRIMARY ACCESS SITE PLAN

OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C14 OF C75

12233S.dwg, TAB:S-SHT 14



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DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
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EXISTING / PROPOSED

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- EASEMENT
- BUFFER
- FLOODPLAIN
- CENTERLINE
- IRON PIPE/ROD
- EDGE WETLAND
- WETLANDS
- EDGE PAVEMENT
- EDGE CONCRETE
- EDGE GRAVEL
- TREELINE
- CHAIN LINK FENCE
- GUARD RAIL
- SANITARY MANHOLE
- GRASSED WALKWAY
- UNDERDRAIN SOIL FILTER
- LIGHT POLE
- HYDRANT
- SHARROW SYMBOL

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

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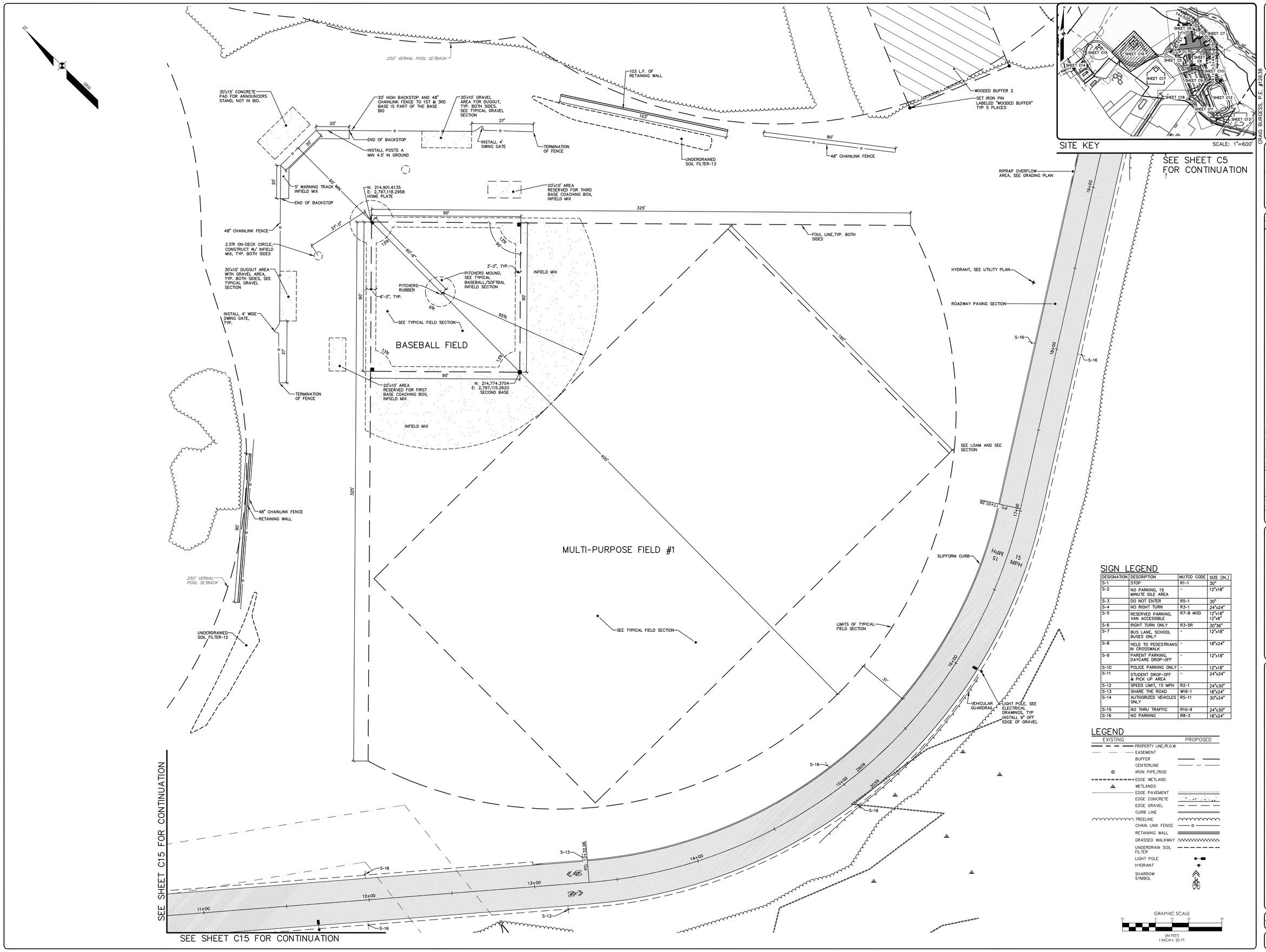
Lewiston, ME 04240
Tel: 207-783-3836

SITE PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C15 OF C75

12233S.dwg, TAB: S-SHT 15



SIGN LEGEND

DESIGNATION	DESCRIPTION	MUTCD CODE	SIZE (IN.)
S-1	STOP	R1-1	30"
S-2	NO PARKING, 15 MINUTE IDLE AREA	-	12"x18"
S-3	DO NOT ENTER	R5-1	30"
S-4	NO RIGHT TURN	R3-1	24"x24"
S-5	RESERVED PARKING, VAN ACCESSIBLE	R7-8 MOD	12"x18" 12"x6"
S-6	RIGHT TURN ONLY	R3-5R	30"36"
S-7	BUS LANE, SCHOOL BUSES ONLY	-	12"x18"
S-8	YIELD TO PEDESTRIANS IN CROSSWALK	-	18"x24"
S-9	PARENT PARKING, DAYCARE DROP-OFF	-	12"x18"
S-10	POLICE PARKING ONLY	-	12"x18"
S-11	STUDENT DROP-OFF & PICK UP AREA	-	24"x24"
S-12	SPEED LIMIT, 15 MPH	R2-1	24"x30"
S-13	SHARE THE ROAD	W16-1	18"x24"
S-14	AUTHORIZED VEHICLES ONLY	R5-11	30"x24"
S-15	NO THRU TRAFFIC	R10-9	24"x30"
S-16	NO PARKING	R8-3	18"x24"

LEGEND

EXISTING / PROPOSED

- PROPERTY LINE/R.O.W.
- EASEMENT
- BUFFER
- CENTERLINE
- IRON PIPE/ROD
- EDGE WETLAND
- WETLANDS
- EDGE PAVEMENT
- EDGE CONCRETE
- EDGE GRAVEL
- CURB LINE
- TREELINE
- CHAIN LINK FENCE
- RETAINING WALL
- GRASSED WALKWAY
- UNDERDRAIN SOIL FILTER
- LIGHT POLE
- HYDRANT
- SHARROW SYMBOL

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

DESIGNED	CHECKED
CAB	KSM

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75 John Roberts Rd. Suite A
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Suite 1
Lewiston, ME 04240
Tel. 207-783-5656

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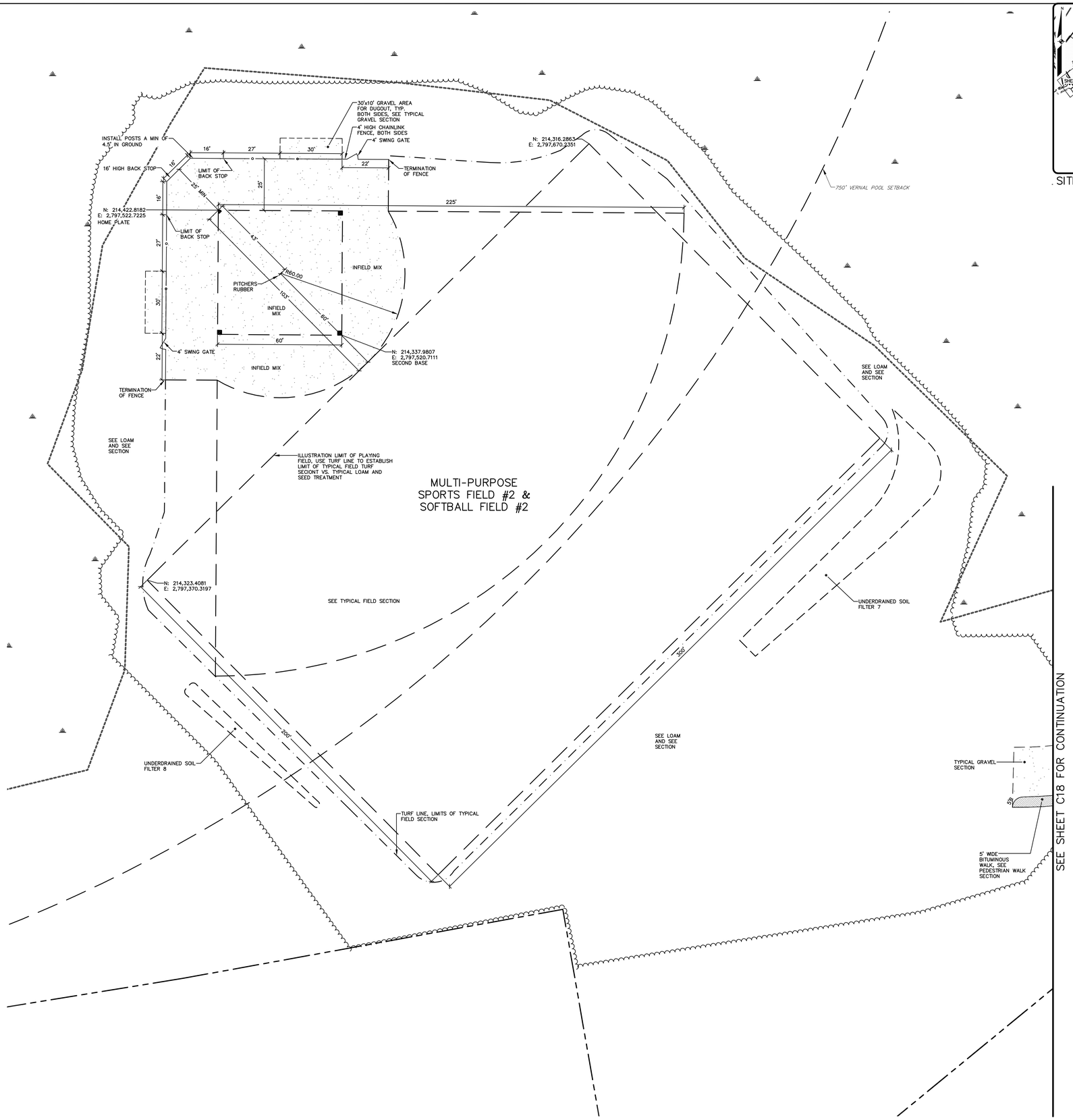
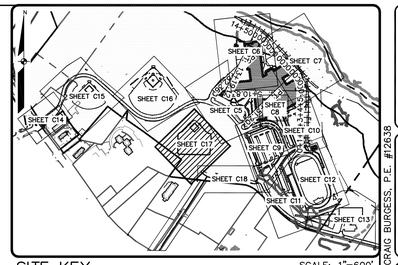
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C16 OF C75

12233S.dwg, TAB: S-SHT 16





SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	BUFFER	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE GRAVEL	
	EDGE OF WATER	
	TREELINE	
	GRASSED WALKWAY	
	CHAIN LINK FENCE	
	UNDERDRAIN SOIL FILTER	
	LIGHT POLE	
	TURF LINE	

CRAIG BURGESS, P.E. #12638

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PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
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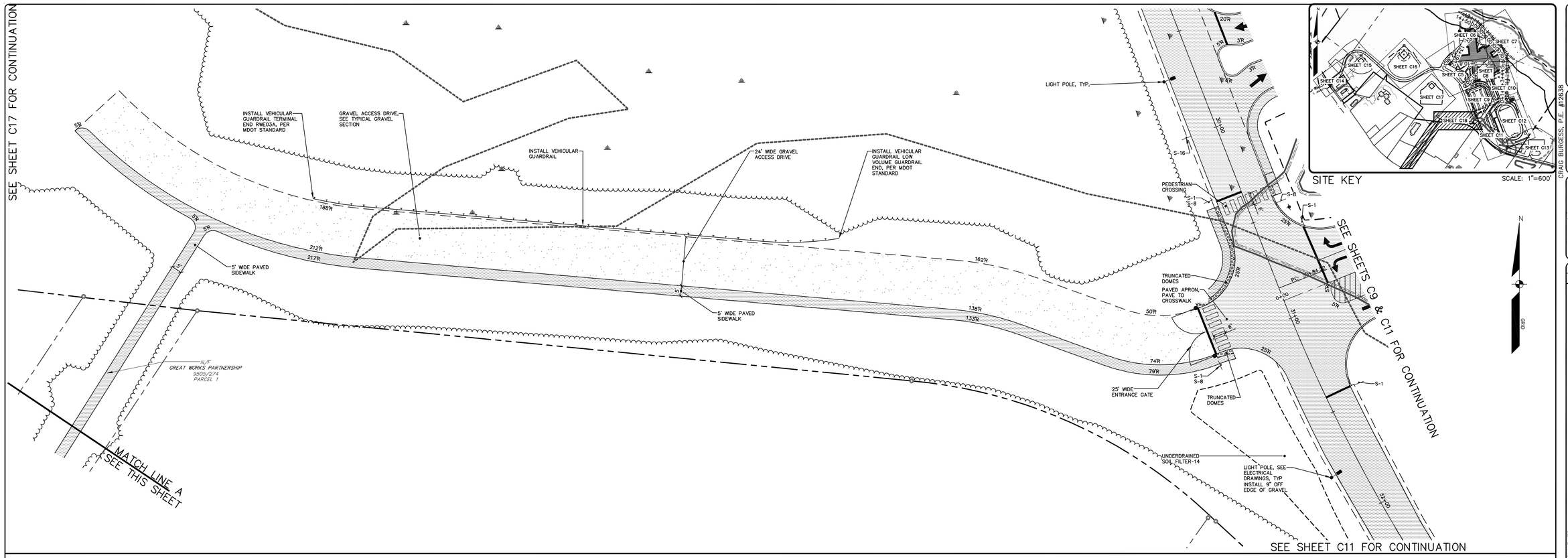
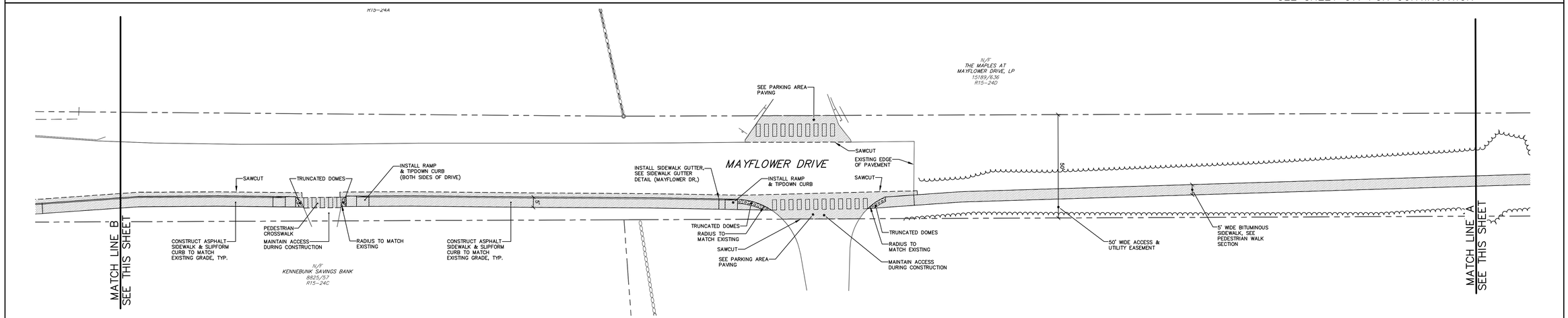
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

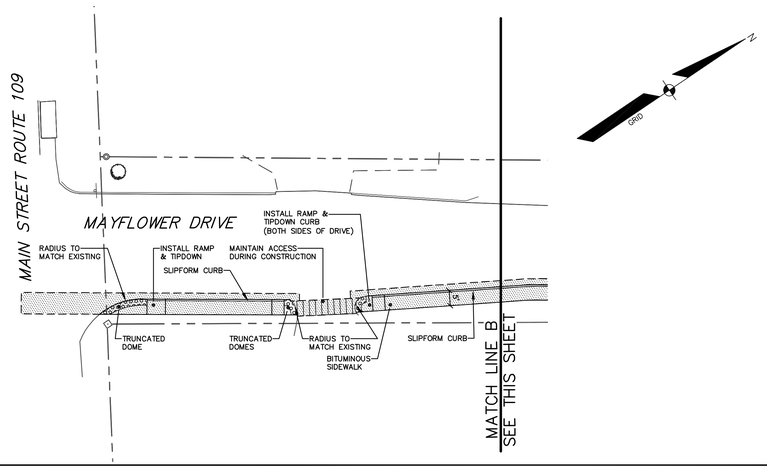
PROJECT NO.	SCALE
12233	1" = 20'

SHEET C17 OF C75

122335.dwg, TAB:S-SHT 17







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- PROPERTY LINE/R.O.W.
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- IRON PIPE/ROD
- EDGE WETLAND
- WETLANDS
- EDGE PAVEMENT
- PAVEMENT SAWCUT
- PAVEMENT PAINT
- EDGE GRAVEL
- CURB LINE
- EDGE OF WATER
- TREELINE
- STONE WALL
- DECIDUOUS TREE
- CONIFEROUS TREE
- BOLLARD
- SIGN
- HYDRANT
- LIGHT POLE
- SHARROW SYMBOL

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE — CRAIG A. BURGESS — No. 12638 — PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT — KYLIE S. MASON — 3335 — STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
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SITE PLAN
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SANFORD, MAINE 04073
FOR:
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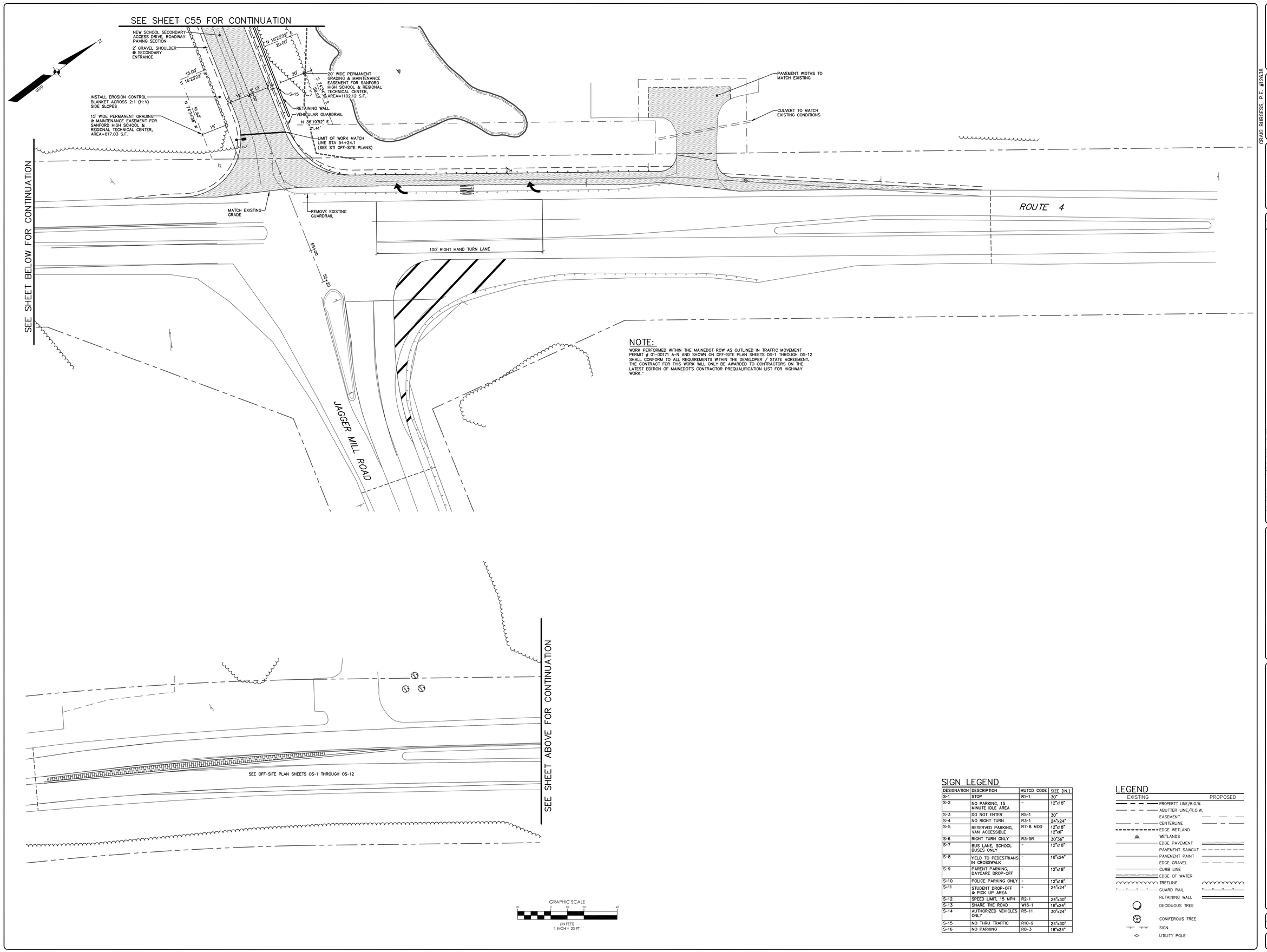
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C18 OF C75

12233S.dwg, TAB:S-SHT 18



NOTE:

WORK PERFORMED WITHIN THE MAINEDOT ROW AS OUTLINED IN TRAFFIC MOVEMENT PERMIT # 01-00171 A-N AND SHOWN ON OFF-SITE PLAN SHEETS OS-1 THROUGH OS-12 SHALL CONFORM TO ALL REQUIREMENTS WITHIN THE DEVELOPER / STATE AGREEMENT. THE CONTRACT FOR THIS WORK WILL ONLY BE AWARDED TO CONTRACTORS ON THE LATEST EDITION OF MAINEDOT'S CONTRACTOR PREQUALIFICATION LIST FOR HIGHWAY WORK."

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- PAVEMENT PAINT
- EDGE GRAVEL
- CURB LINE
- EDGE OF WATER
- TREELINE
- GUARD RAIL
- RETAINING WALL
- DECIDUOUS TREE
- CONIFEROUS TREE
- SIGN
- UTILITY POLE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
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SITE PLAN
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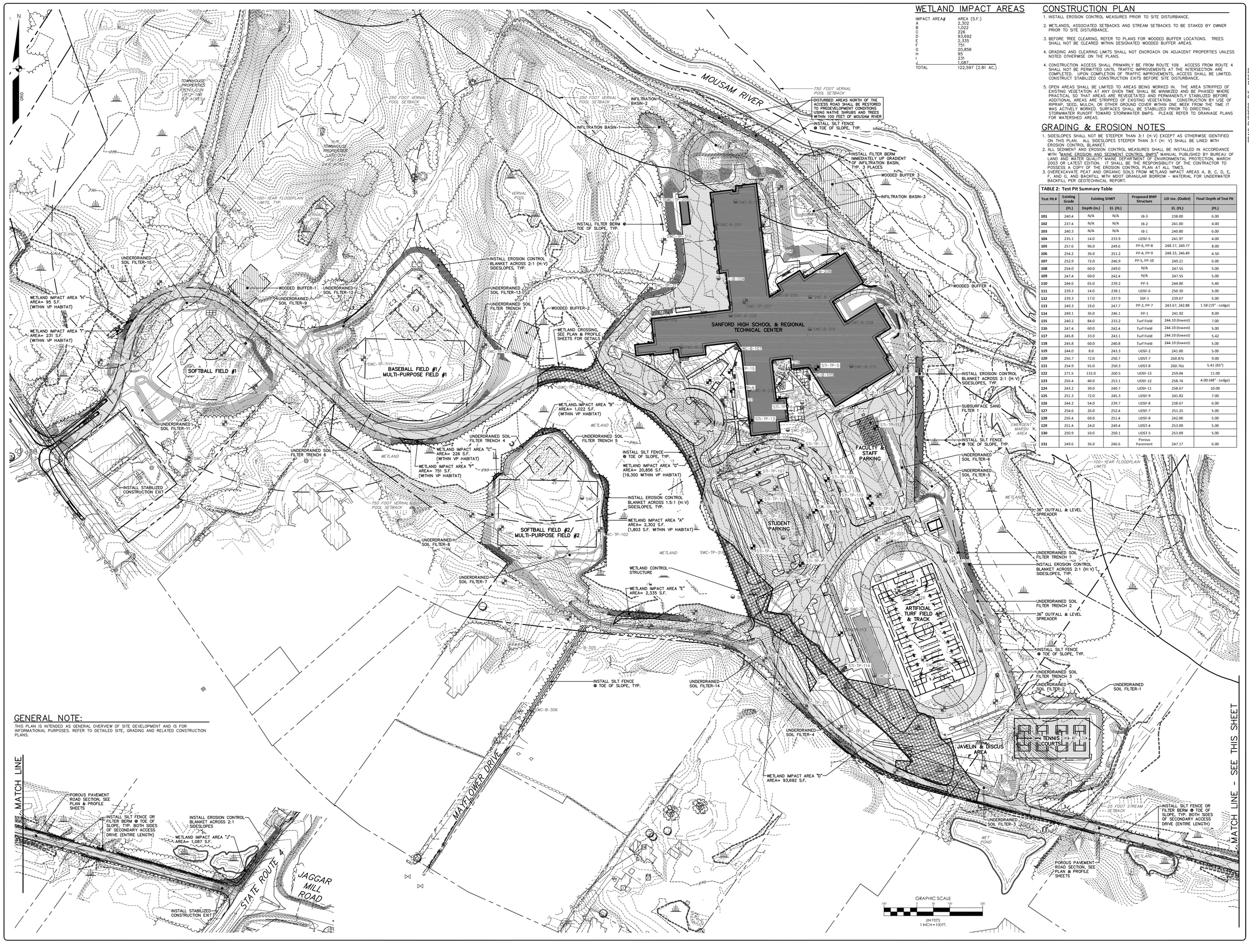
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C19 OF C75

12233S.dwg, TAB:S-SHT 19



WETLAND IMPACT AREAS

IMPACT AREA#	AREA (S.F.)
A	2,302
B	1,022
C	226
D	93,692
E	2,335
F	751
G	20,856
H	95
I	231
J	1,087
TOTAL	122,597 (2.81 AC.)

CONSTRUCTION PLAN

1. INSTALL EROSION CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
2. WETLANDS, ASSOCIATED SETBACKS AND STREAM SETBACKS TO BE STAKED BY OWNER PRIOR TO SITE DISTURBANCE.
3. BEFORE TREE CLEARING, REFER TO PLANS FOR WOODED BUFFER LOCATIONS. TREES SHALL NOT BE CLEARED WITHIN DESIGNATED WOODED BUFFER AREAS.
4. GRADING AND CLEARING LIMITS SHALL NOT ENCROACH ON ADJACENT PROPERTIES UNLESS NOTED OTHERWISE ON THE PLANS.
4. CONSTRUCTION ACCESS SHALL PRIMARILY BE FROM ROUTE 109. ACCESS FROM ROUTE 4 SHALL NOT BE PERMITTED UNTIL TRAFFIC IMPROVEMENTS AT THE INTERSECTION ARE COMPLETED. UPON COMPLETION OF TRAFFIC IMPROVEMENTS, ACCESS SHALL BE LIMITED. CONSTRUCT STABILIZED CONSTRUCTION EXITS BEFORE SITE DISTURBANCE.
5. OPEN AREAS SHALL BE LIMITED TO AREAS BEING WORKED IN. THE AREA STRIPPED OF EXISTING VEGETATION AT ANY GIVEN TIME SHALL BE MINIMIZED AND BE PHASED WHERE PRACTICAL SO THAT AREAS ARE REVEGETATED AND PERMANENTLY STABILIZED BEFORE ADDITIONAL AREAS ARE STRIPPED OF EXISTING VEGETATION. CONSTRUCTION BY USE OF RIPRAP, SEED, MULCH, OR OTHER GROUND COVER WITHIN ONE WEEK FROM THE TIME IT WAS ACTIVELY WORKED. SURFACES SHALL BE STABILIZED PRIOR TO DIRECTING STORMWATER RUNOFF TOWARD STORMWATER BMPS. PLEASE REFER TO DRAINAGE PLANS FOR WATERSHED AREAS.

GRADING & EROSION NOTES

1. SIDESLOPES SHALL NOT BE STEEPER THAN 3:1 (H:V) EXCEPT AS OTHERWISE IDENTIFIED ON THIS PLAN. ALL SIDESLOPES STEEPER THAN 3:1 (H: V) SHALL BE LINED WITH EROSION CONTROL BLANKET.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL BMPS" MANUAL PUBLISHED BY BUREAU OF LAND AND WATER QUALITY MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 2003 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
3. OVEREXCAVATE PEAT AND ORGANIC SOILS FROM WETLAND IMPACT AREAS A, B, C, D, E, F, AND G, AND BACKFILL WITH MDOT GRANULAR BORROW - MATERIAL FOR UNDERWATER BACKFILL PER GEOTECHNICAL REPORT.

TABLE 2: Test Pit Summary Table

Test Pit #	Existing Grade	Existing SHWT		Proposed BMP Structure	UD Inv. (Outlet)	Final Depth of Test Pit
	(Ft.)	Depth (in.)	El. (Ft.)		El. (Ft.)	(Ft.)
101	240.4	N/A	N/A	IB-3	238.00	6.00
102	237.4	N/A	N/A	IB-2	241.00	4.00
103	240.3	N/A	N/A	IB-1	240.80	6.00
104	235.1	14.0	233.9	UDSF-5	241.97	4.00
105	257.6	96.0	249.6	PP-6, PP-8	248.17, 249.77	8.00
106	254.2	36.0	251.2	PP-4, PP-9	248.33, 246.49	4.50
107	252.9	72.0	246.9	PP-5, PP-10	249.21	6.00
108	254.0	60.0	249.0	N/A	247.55	5.00
109	247.4	60.0	242.4	N/A	247.55	5.00
110	244.6	65.0	239.2	PP-3	244.00	5.40
111	239.3	14.0	238.1	UDSF-6	250.30	5.00
112	239.3	17.0	237.9	SSF-1	239.67	5.00
113	249.3	19.0	247.7	PP-2, PP-7	243.67, 242.88	1.58 (19" - Ledge)
114	249.1	36.0	246.1	PP-1	241.92	8.00
115	240.2	84.0	233.2	Turf Field	244.10 (lowest)	7.00
116	247.4	60.0	242.4	Turf Field	244.10 (lowest)	5.00
117	245.8	33.0	243.1	Turf Field	244.10 (lowest)	5.42
118	245.8	60.0	240.8	Turf Field	244.10 (lowest)	5.00
119	244.0	8.0	243.3	UDSF-2	241.00	5.00
120	256.7	72.0	250.7	UDST-7	260.87±	9.00
121	254.9	55.0	250.3	UDST-8	260.76±	5.41 (65")
122	271.5	132.0	260.5	UDSF-13	259.04	11.00
123	256.4	40.0	253.1	UDSF-12	258.74	4.00 (48" - Ledge)
124	243.2	30.0	240.7	UDSF-11	258.67	10.00
125	251.3	72.0	245.3	UDSF-9	241.82	7.00
126	244.2	54.0	239.7	UDSF-8	238.67	6.00
127	254.6	26.0	252.4	UDSF-7	251.25	5.00
128	256.4	60.0	251.4	UDSF-8	242.00	5.00
129	251.4	24.0	249.4	UDST-4	253.09	5.00
130	250.9	10.0	250.1	UDST-5	253.09	5.00
131	249.6	36.0	246.6	Porous Pavement	247.17	6.00

GENERAL NOTE:

THIS PLAN IS INTENDED AS GENERAL OVERVIEW OF SITE DEVELOPMENT AND IS FOR INFORMATIONAL PURPOSES. REFER TO DETAILED SITE, GRADING AND RELATED CONSTRUCTION PLANS.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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OVERALL GRADING & EROSION CONTROL PLAN
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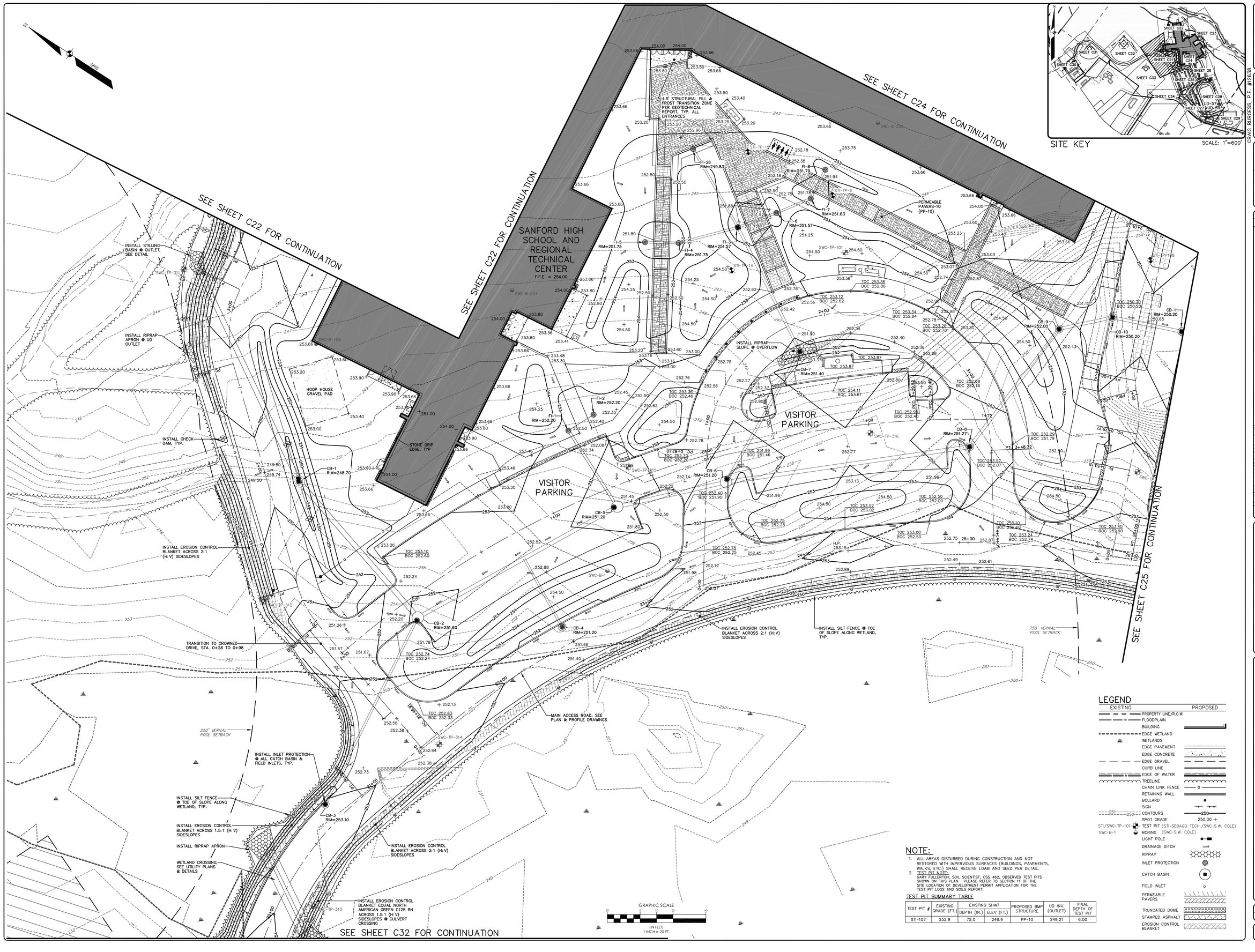
SHEETc20OFc75

122330AG.dwg, TAB: OAGU-SHT 20



SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	FIELD INLET	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

1. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
2. TEST PIT NOTE:
   GARY FULLERTON, SOIL SCIENTIST, CSS 462, OBSERVED TEST PITS SHOWN ON THIS PLAN. PLEASE REFER TO SECTION 11 OF THE SITE LOCATION OF DEVELOPMENT PERMIT APPLICATION FOR THE TEST PIT LOGS AND SOILS REPORT.

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-107	252.9	72.0	246.9	PP-10	249.21	6.00

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-19-15	RESUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd.
Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Suite 3
Lewiston, ME 04240
Tel: 207-783-5656

GRADING & EROSION CONTROL PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

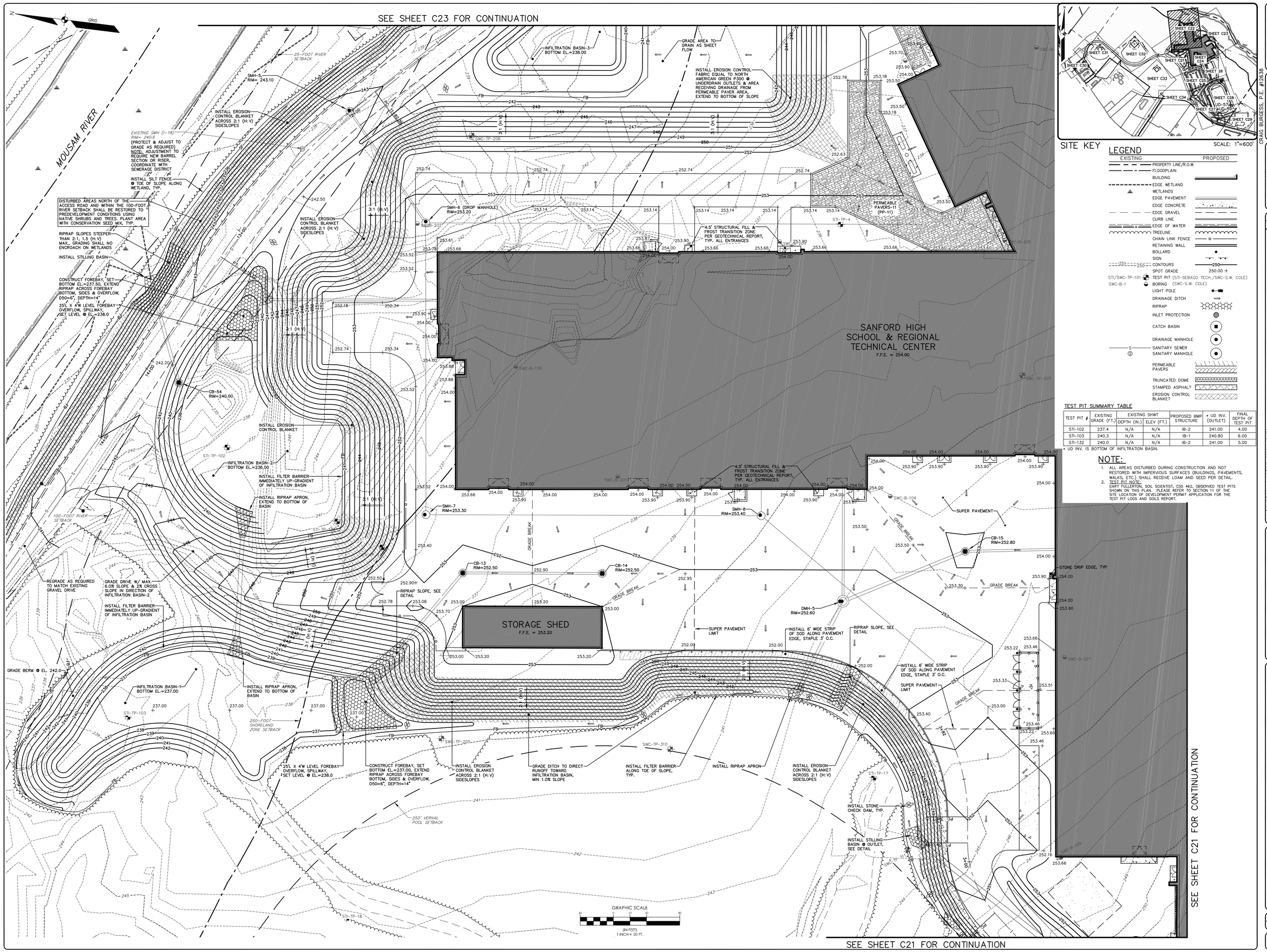
FOR:

SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C210 OF C75

12233GU.dwg, TAB: GU-SHT 21



SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 / 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	DRAINAGE MANHOLE	
S	SANITARY SEWER	
Ⓢ	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	* UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-102	237.4	N/A	N/A	IB-2	241.00	4.00
STI-103	240.3	N/A	N/A	IB-1	240.80	6.00
STI-132	240.0	N/A	N/A	IB-2	241.00	5.00

* UD INV. IS BOTTOM OF INFILTRATION BASIN.

NOTE:

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2. TEST PIT NOTE:
   GARY FULLERTON, SOIL SCIENTIST, CSS 462, OBSERVED TEST PITS SHOWN ON THIS PLAN. PLEASE REFER TO SECTION 11 OF THE SITE LOCATION OF DEVELOPMENT PERMIT APPLICATION FOR THE TEST PIT LOGS AND SOILS REPORT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE B. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-1-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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WWW.SEBAGOTECHNICS.COM
79 John Roberts Rd. South Portland, ME 04106 Tel: 207-200-2100
250 Gosling Rd. Suite 3 Lewiston, ME 04240 Tel: 207-783-3656

GRADING & EROSION CONTROL PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

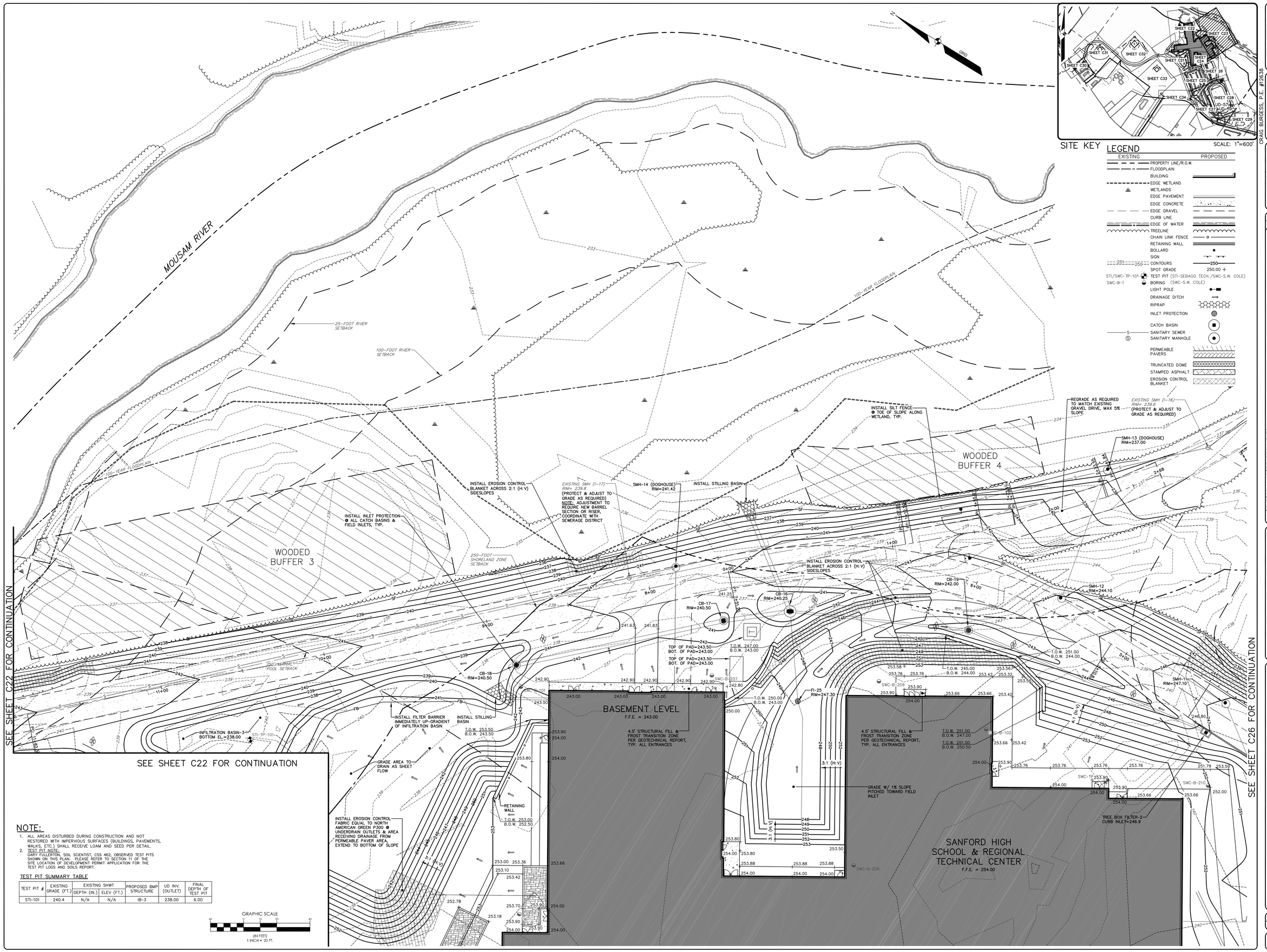
FOR:

SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc220Fc75

12233GU.dwg, TAB:GU-SHT 22



SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
S	SANITARY SEWER	
Ⓢ	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

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TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-101	240.4	N/A	N/A	IB-3	238.00	6.00

CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 PROFESSIONAL ENGINEER

REGISTERED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV'I BY:	DATE:	STATUS:
J	CAB 02-11-16	BID DOCUMENTS
I	CAB 12-18-15	CONSTRUCTION DOCUMENTS
H	CAB 11-25-15	RESUBMITTED TO DEP
G	CAB 11-12-15	SUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB 11-12-15	ISSUED FOR 85%
E	CAB 10-28-15	SUBMITTED FOR 75%
D	CAB 10-20-15	ISSUED FOR 75%

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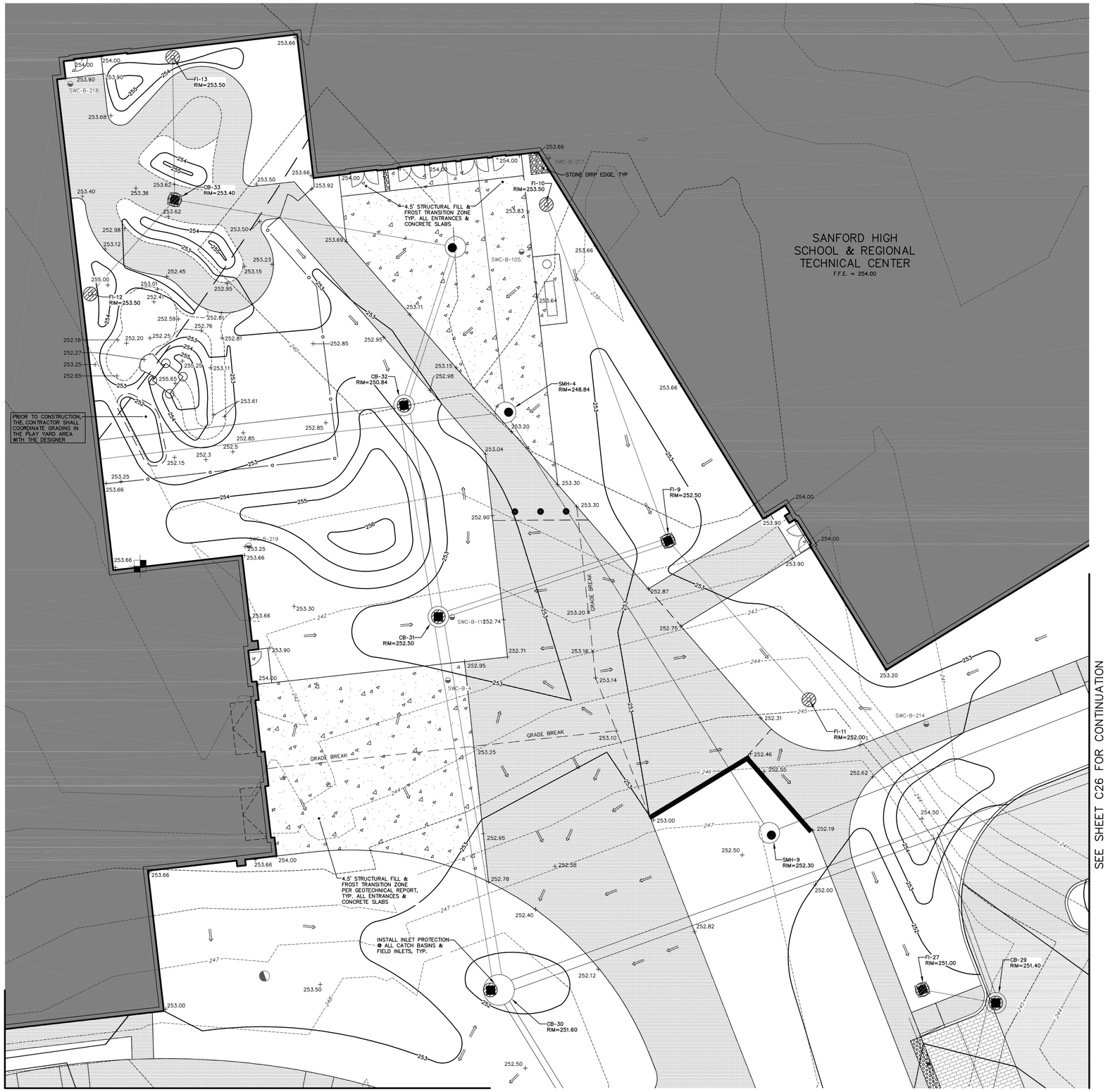
250 Goddard Rd. Suite 2 Lewiston, ME 04240 Tel: 207-783-3836

GRADING & EROSION CONTROL PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc23OFc75

12233GU.dwg, TAB:GU-SHT 23

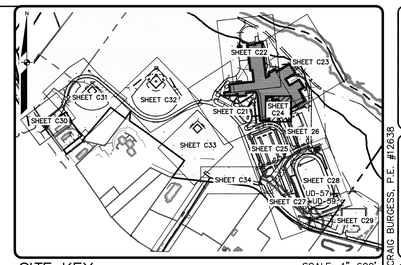


SEE SHEET C26 FOR CONTINUATION

SEE SHEET C25 FOR CONTINUATION

EASTERLY ENTRANCE
SCALE: 1"=10'

GRAPHIC SCALE
(IN FEET)
1 INCH = 10 FT.



SITE KEY
SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	FIELD INLET	
	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

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CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	RESUBMITTED CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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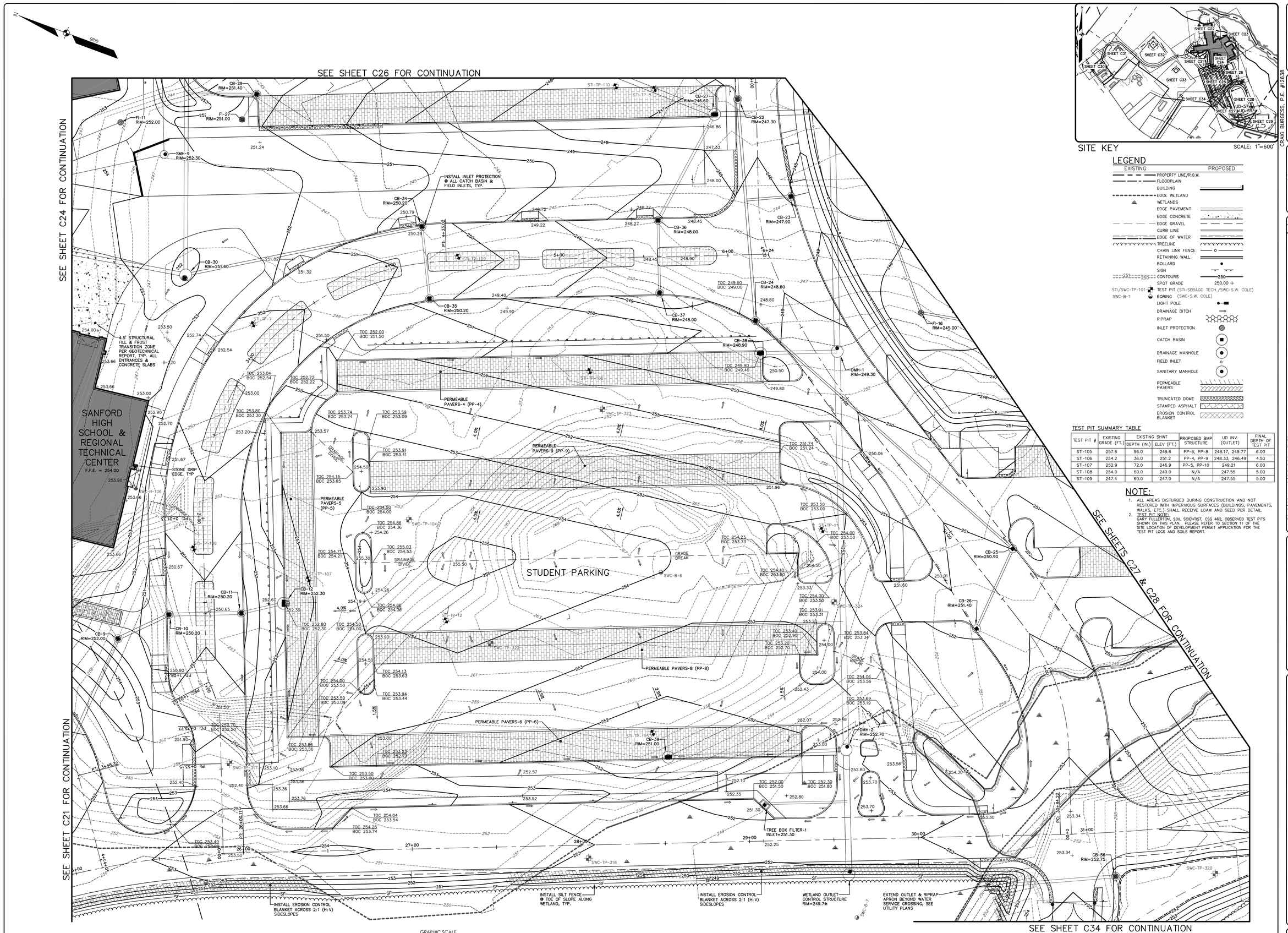
Lewiston, ME 04240 Tel: 207-783-3836

GRADING & EROSION CONTROL PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 10'

SHEETc240FC75

12233GU.dwg, TAB: GU-SHT 24



SITE KEY SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 / 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	DRAINAGE MANHOLE	
	FIELD INLET	
	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT DEPTH (IN.)	EXISTING SHWT ELEV (FT.)	PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
STI-105	257.6	96.0	249.6	PP-6, PP-8	248.17, 249.77	6.00
STI-106	254.2	36.0	251.2	PP-4, PP-9	248.33, 246.49	4.50
STI-107	252.9	72.0	246.9	PP-5, PP-10	249.21	6.00
STI-108	254.0	60.0	249.0	N/A	247.55	5.00
STI-109	247.4	60.0	247.0	N/A	247.55	5.00

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CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
E	CAB	10-20-15	ISSUED FOR 85%
D	CAB	10-20-15	ISSUED FOR 75%

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Lewiston, ME 04240
Tel: 207-783-9836

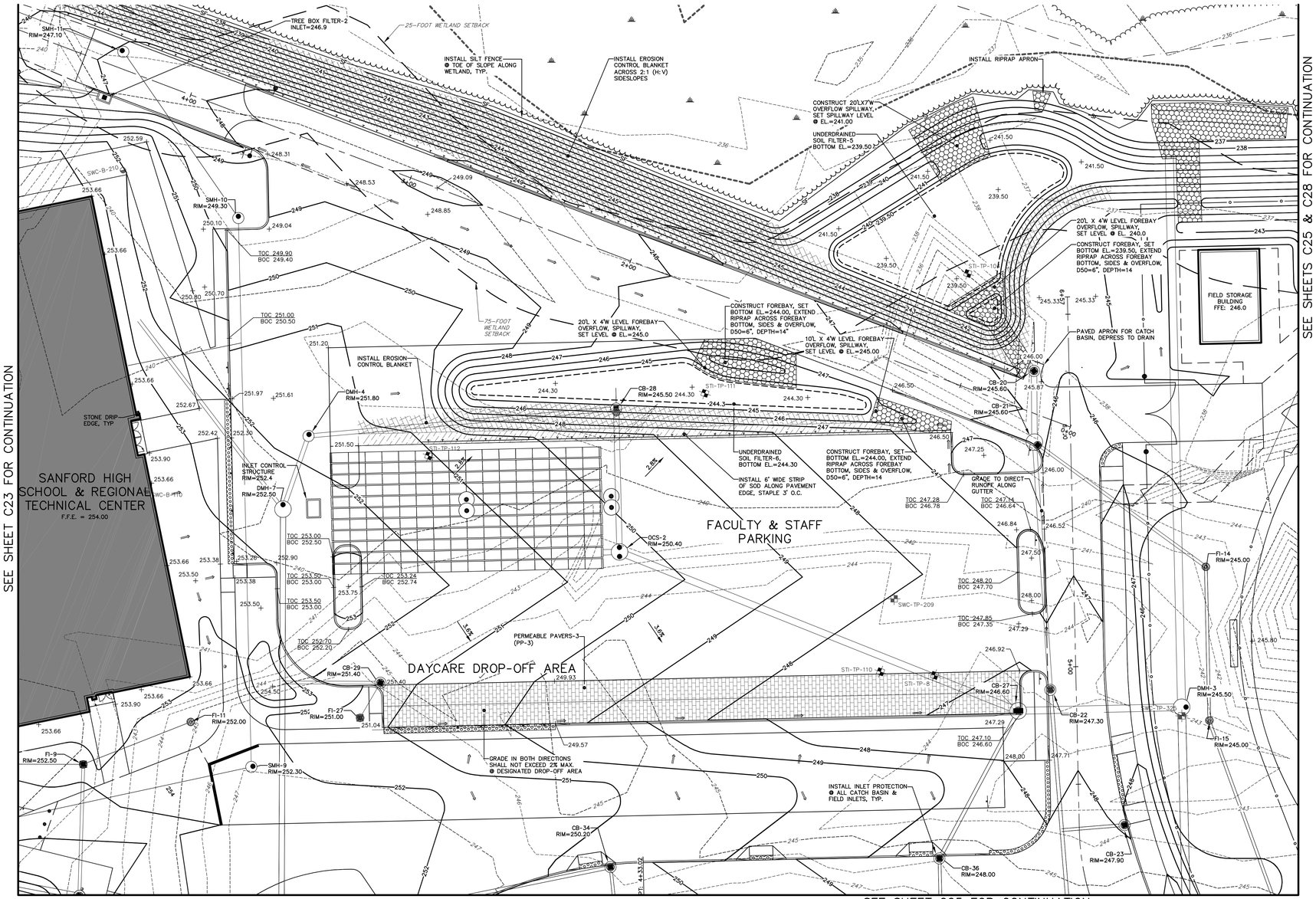
GRADING & EROSION CONTROL PLAN

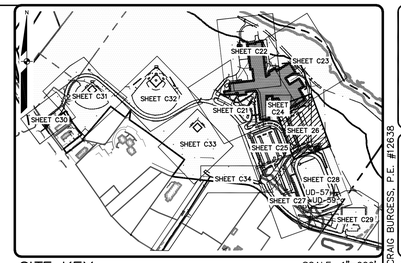
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETC25OFC75

12233GU.dwg, TAB: GU-SHT 25





SITE KEY SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 / 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	DRAINAGE MANHOLE	
	FIELD INLET	
	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

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TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-104	235.1	14.0	233.9	UDSF-6	237.00	4.00
STI-110	244.6	65.0	239.2	PP-3	244.00	5.40
STI-111	239.3	14.0	238.1	UDSF-7	241.92	5.00

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

REGISTERED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR 85% COMMENTS & REISSUED
F	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
E	CAB	10-20-15	ISSUED FOR 75%
D	CAB	10-20-15	ISSUED FOR

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GRADING & EROSION CONTROL PLAN
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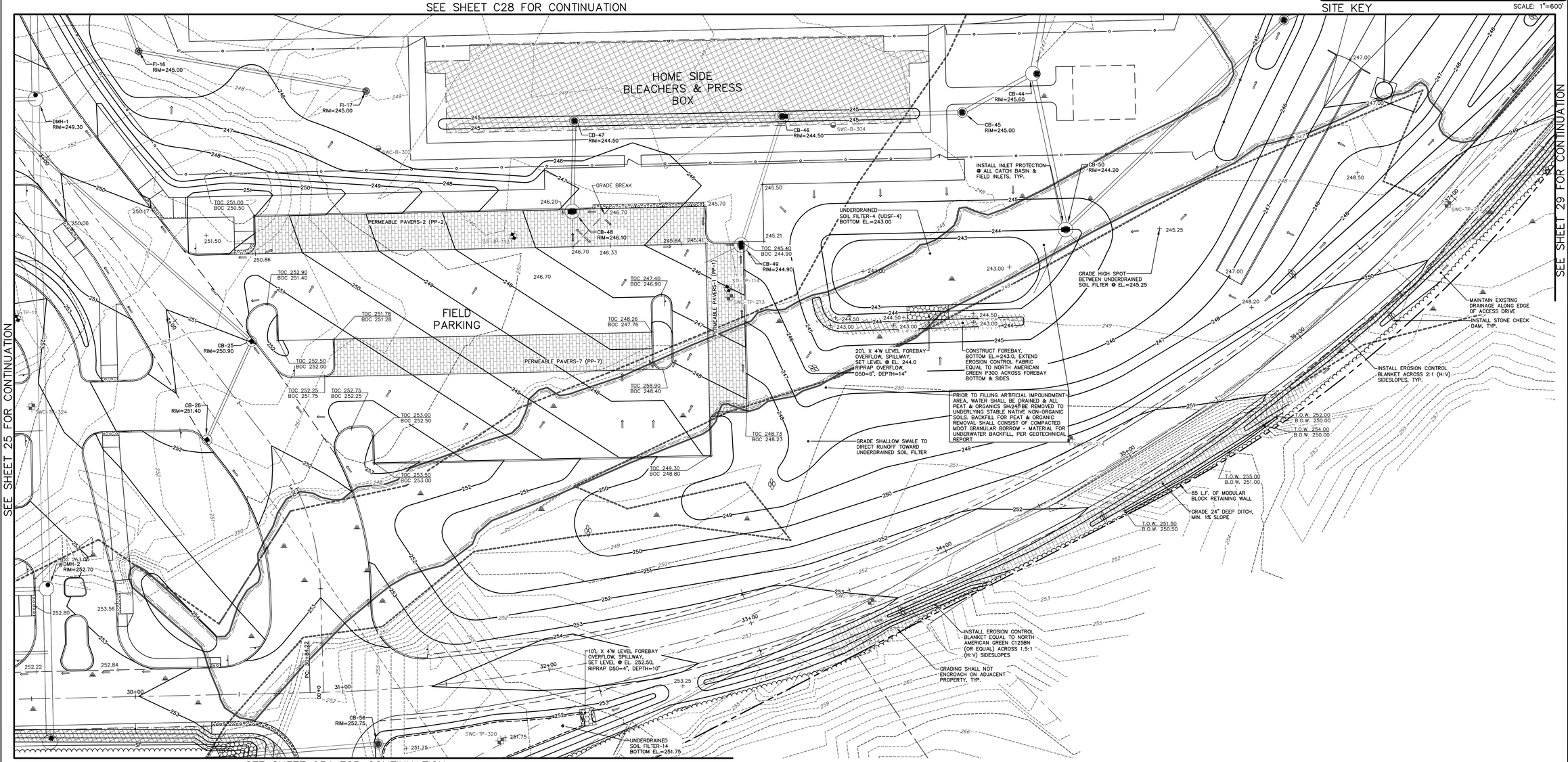
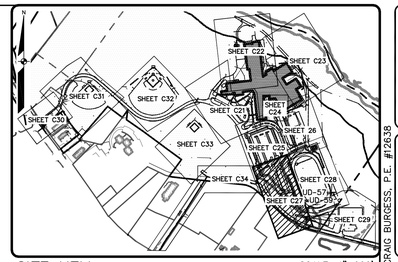
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc26OFc75

12233GU.dwg, TAB:GU-SHT 26





LEGEND

EXISTING	PROPOSED		PROPOSED
PROPERTY LINE/R.O.W.		RIPRAP	
FLOODPLAIN		INLET PROTECTION	
BUILDING		CATCH BASIN	
EDGE WETLAND		DRAINAGE MANHOLE	
WETLANDS		FIELD INLET	
EDGE PAVEMENT		PERMEABLE PAVERS	
EDGE CONCRETE		TRUNCATED DOME	
EDGE GRAVEL		STAMPED ASPHALT	
CURB LINE		EROSION CONTROL BLANKET	
EDGE OF WATER		DRAINAGE DITCH	
TREELINE			
CHAIN LINK FENCE			
RETAINING WALL			
BOLLARD			
SIGN			
251 CONTOURS 250	250		
SPOT GRADE	250.00 +		
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)		
SWC-B-1	BORING (SWC-S.W. COLE)		
	LIGHT POLE		

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-113	249.3	19.0	247.7	PP-2, 99-7	243.67, 242.88	1.58 (19"-LEDGE)
STI-114	249.1	36.0	246.1	PP-1	241.92	8.00

NOTE:

1. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
2. TEST PIT NOTE:
   GARY FULLERTON, SOIL SCIENTIST, CSS 462, OBSERVED TEST PITS SHOWN ON THIS PLAN. PLEASE REFER TO SECTION 11 OF THE SITE LOCATION OF DEVELOPMENT PERMIT APPLICATION FOR THE TEST PIT LOGS AND SOILS REPORT.

GRAPHIC SCALE
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	SUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

GRADING & EROSION CONTROL PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETC27OFC75

12233GU.dwg, TAB: GU-SHT 27

NOTE:

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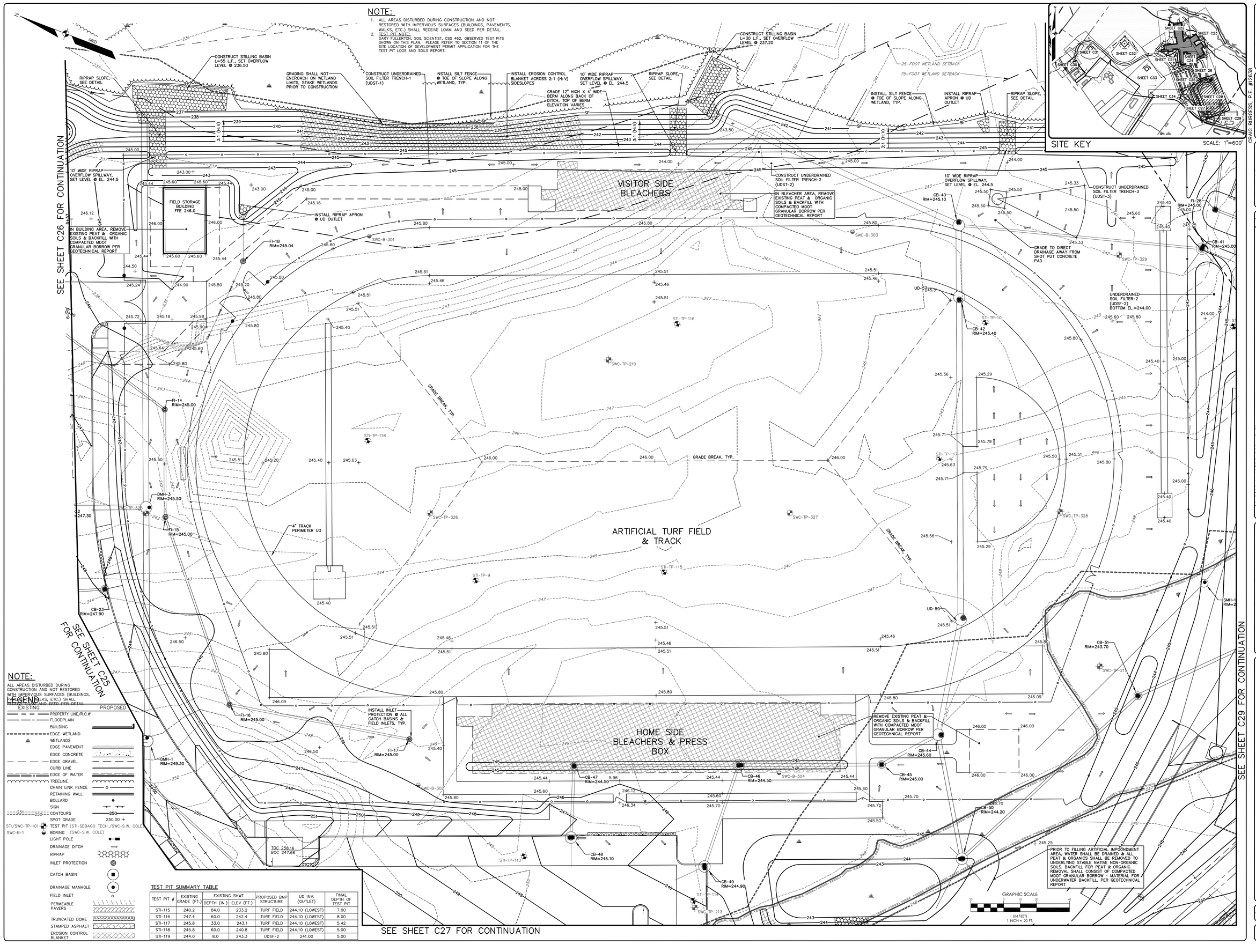

NOTE:

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LEGEND

EXISTING	PROPOSED
PROPERTY LINE/R.O.W.	
FLOODPLAIN	
BUILDING	
EDGE WETLAND	
WETLANDS	
EDGE PAVEMENT	
EDGE CONCRETE	
EDGE GRAVEL	
CURB LINE	
EDGE OF WATER	
TREELINE	
CHAIN LINK FENCE	
RETAINING WALL	
BOLLARD	
SIGN	
251 250 CONTOURS	250
SPOT GRADE	250.00 +
STI/SWC-TP-101 TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1 BORING (SWC-S.W. COLE)	
LIGHT POLE	
DRAINAGE DITCH	
RIPRAP	
INLET PROTECTION	
CATCH BASIN	
DRAINAGE MANHOLE	
FIELD INLET	
PERMEABLE PAVERS	
TRUNCATED DOME	
STAMPED ASPHALT	
EROSION CONTROL BLANKET	

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-115	240.2	84.0	233.2	TURF FIELD	244.10 (LOWEST)	7.00
STI-116	247.4	60.0	242.4	TURF FIELD	244.10 (LOWEST)	8.00
STI-117	245.8	33.0	243.1	TURF FIELD	244.10 (LOWEST)	5.42
STI-118	245.8	60.0	240.8	TURF FIELD	244.10 (LOWEST)	5.00
STI-119	244.0	8.0	243.3	UDSF-2	241.00	5.00

CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel. 207-200-2100
250 Gladiola Rd. Suite 3
Lewiston, ME 04240
Tel. 207-783-5836

GRADING & EROSION CONTROL PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER

ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

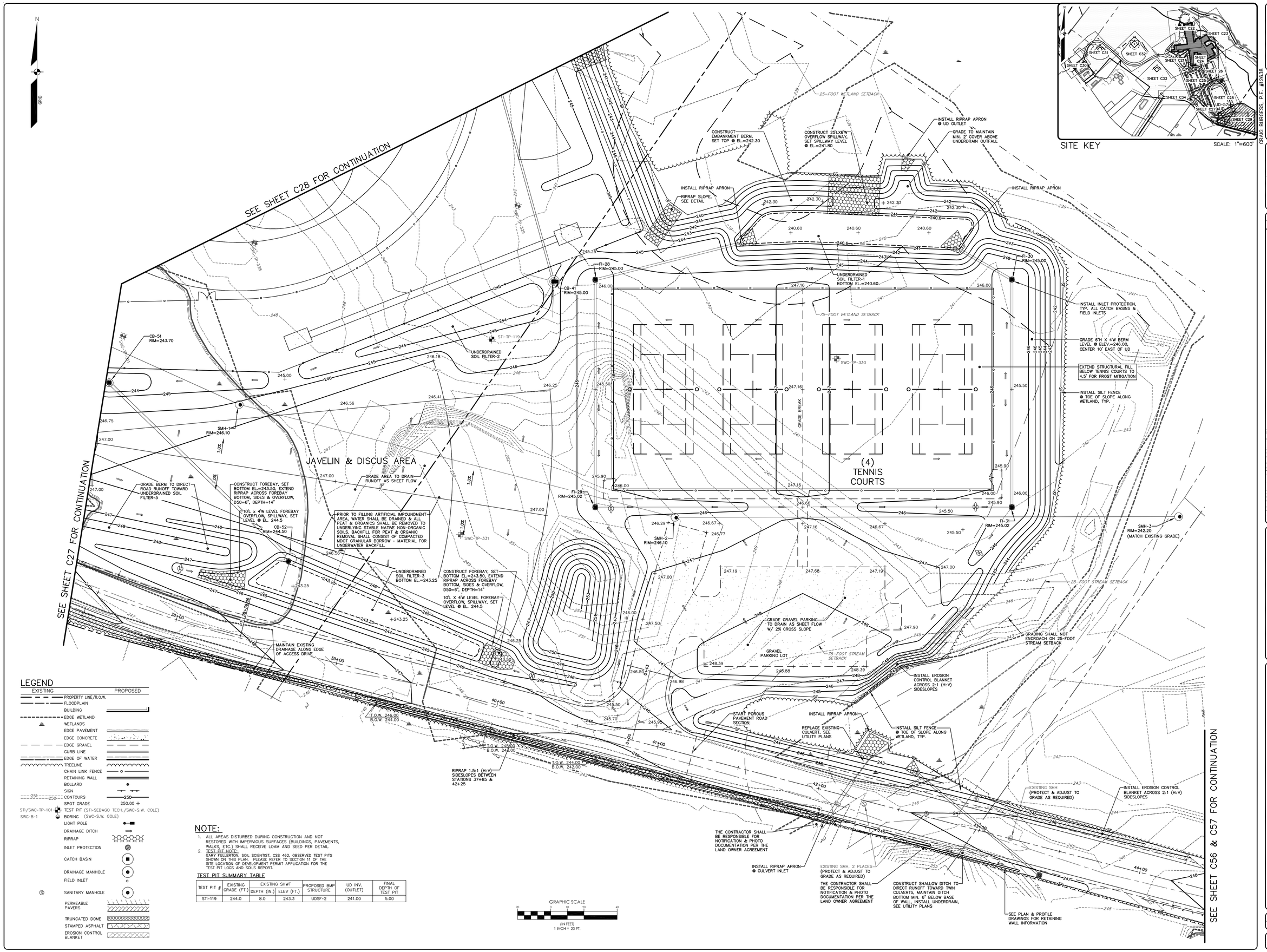
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc280FC75

12233SU.dwg, TAB:GU-SHT 28



SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	DRAINAGE MANHOLE	
	FIELD INLET	
S	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

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TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-119	244.0	8.0	243.3	UDSF-2	241.00	5.00

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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H	CAB	11-25-15	RESUBMITTED TO DEP
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F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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DESIGNED: CAB
CHECKED: KSM

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite A
South Portland, ME 04106
Tel: 207-200-2100
250 Gaddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

GRADING & EROSION CONTROL PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

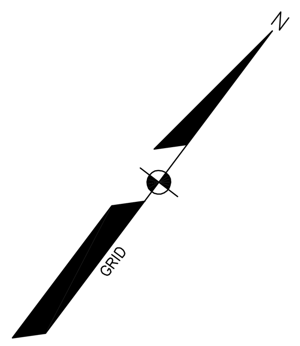
FOR:

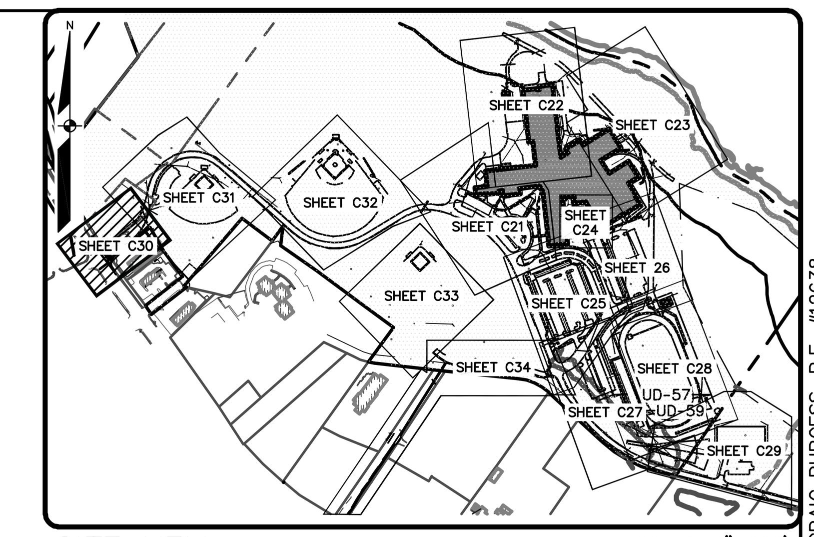
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETC29OFC75

12233GD.dwg, TAB: GU-SHT 29





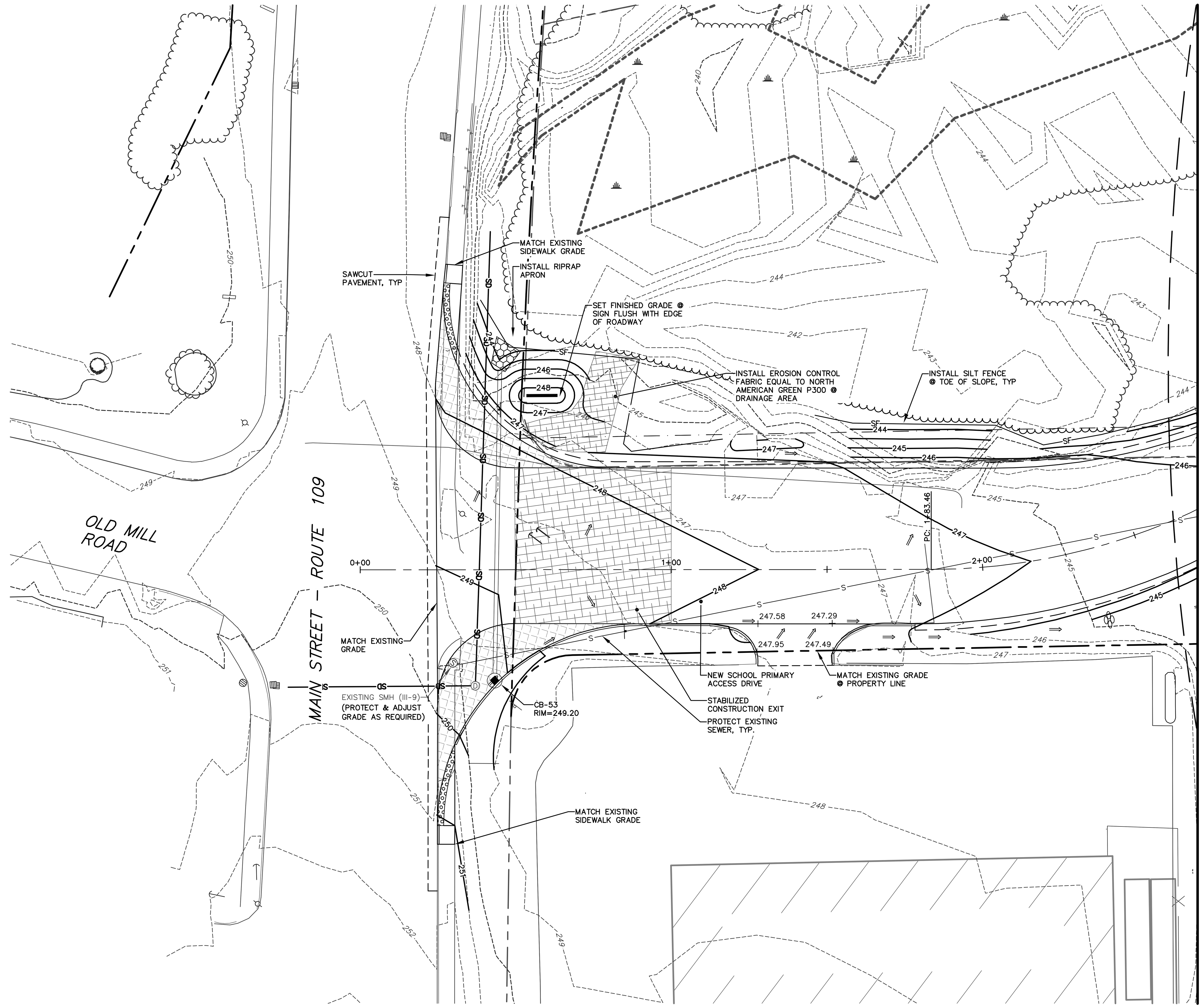
SITE KEY

SCALE: 1"=600'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
S	SANITARY SEWER	
	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

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GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

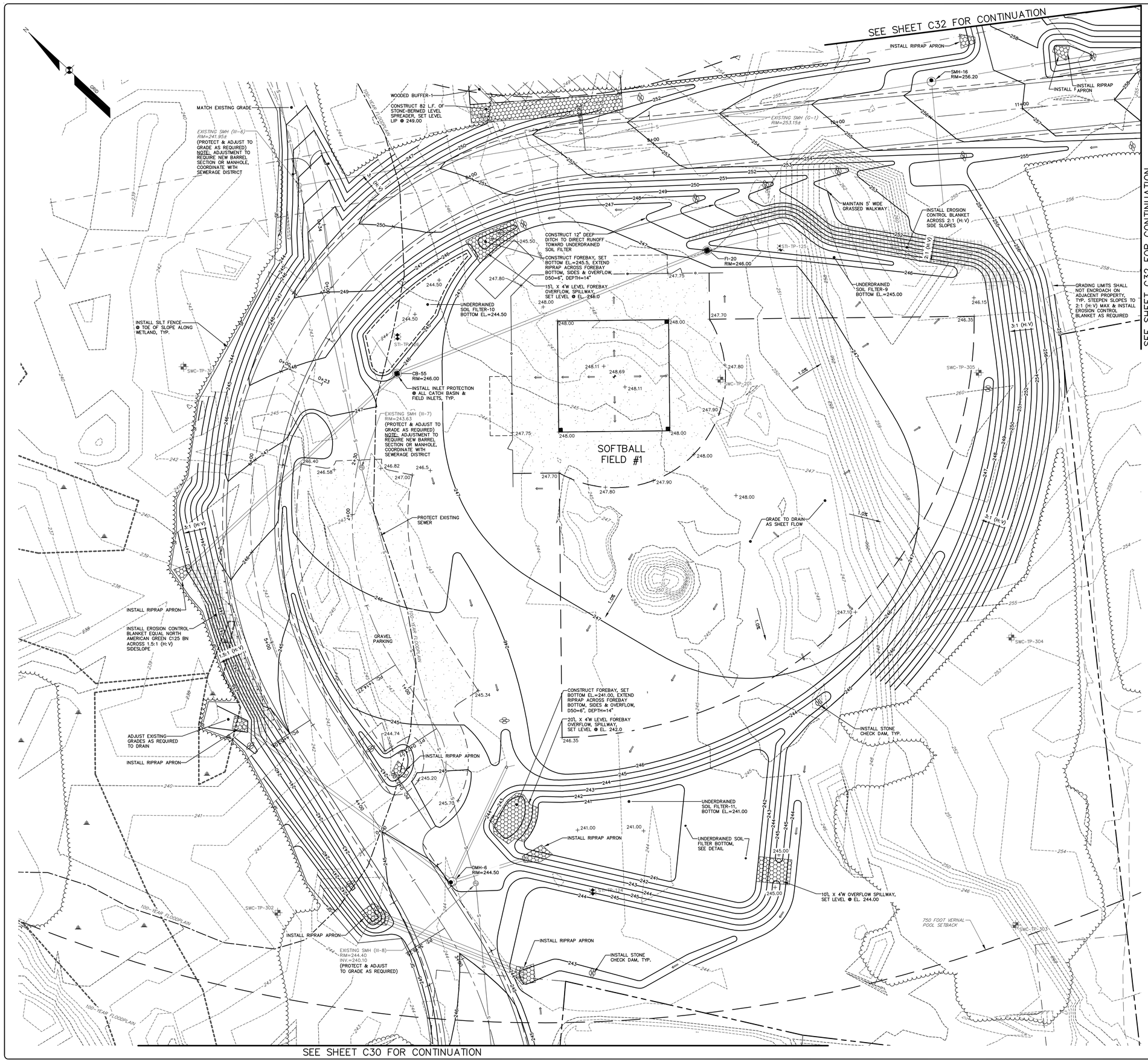
PRIMARY ACCESS GRADING & EROSION CONTROL PLAN

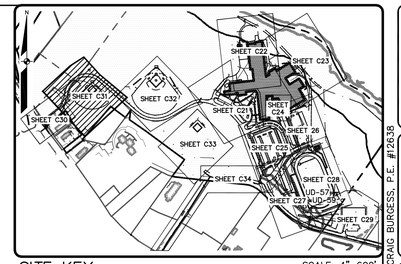
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C30 OF C75

12233GU.dwg, TAB: GU-SHT 30





SITE KEY SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 / 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	DRAINAGE MANHOLE	
	FIELD INLET	
S	SANITARY SEWER	
S	SANITARY MANHOLE	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

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TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-124	243.2	30.0	240.7	UDSF-12	238.67	10.00
STI-125	251.3	72.0	245.3	UDSF-10	242.00	7.00
STI-126	244.2	54.0	239.7	UDSF-11	241.82	6.00

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

REGISTERED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
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F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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GRADING & EROSION CONTROL PLAN

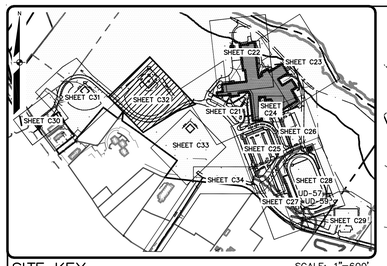
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C310FC75

122335GJ.dwg, TAB:GJ-SHT 31

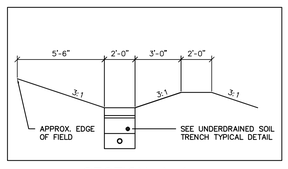


SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING	PROPOSED
PROPERTY LINE/R.O.W.	
FLOODPLAIN	
BUILDING	
EDGE WETLAND	
WETLANDS	
EDGE PAVEMENT	
EDGE CONCRETE	
EDGE GRAVEL	
CURB LINE	
EDGE OF WATER	
TREELINE	
CHAIN LINK FENCE	
RETAINING WALL	
BOLLARD	
SIGN	
251 250 CONTOURS	250
SPOT GRADE	250.00 +
STI/SWC-TP-101 TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1 BORING (SWC-S.W. COLE)	
LIGHT POLE	
DRAINAGE DITCH	
RIPRAP	
INLET PROTECTION	
CATCH BASIN	
FIELD INLET	
S SANITARY SEWER	
Ⓢ SANITARY MANHOLE	
PERMEABLE PAVERS	
TRUNCATED DOME	
STAMPED ASPHALT	
EROSION CONTROL BLANKET	



SECTION A-A
1"=4'

GRADING SHALL NOT ENCROACH ON 250' VERNAL POOL SETBACK, STAKE SETBACK PRIOR TO CONSTRUCTION

INSTALL EROSION CONTROL BLANKET ACROSS 2:1 (H:V) SLOPES

T.O.W. 266.00 B.O.W. 265.00

T.O.W. 269.00 B.O.W. 265.00

105 L.F. OF MODULAR BLOCK RETAINING WALL

T.O.W. 269.00 B.O.W. 265.00

T.O.W. 263.00 B.O.W. 266.00

CONSTRUCT 6" DEEP X 5' WIDE DEPRESSION W/ SOIL FILTER UNDERDRAIN

INSTALL RIPRAP APRON

UNDERDRAINED SOIL FILTER-13 BOTTOM EL.=263.00

FI-22 RIM=264.25

WOODED BUFFER 2

GRADING SHALL NOT ENCROACH ON WOODED BUFFER LIMITS

CONSTRUCT UNDERDRAINED SOIL FILTER TRENCH-8

CONSTRUCT 65 L.F. OF STONE-BERMED LEVEL SPREADER SET LEVEL LIP @ 253.00

INSTALL RIPRAP APRON

GRADE TO DRAIN T.O.W.ARD WOODED BUFFER

RIPRAP SLOPE, SEE DETAIL

CONSTRUCT 6" DEEP DEPRESSION @ UNDERDRAINED TRENCH

INSTALL EROSION CONTROL BLANKET ACROSS 2:1 (H:V) SIDE SLOPES

MAINTAIN 5' WIDE GRASSED WALKWAY, GRADE W/ 2% CROSS SLOPE

INSTALL EROSION CONTROL BLANKET ACROSS 2:1 (H:V) SIDE SLOPES

BASEBALL FIELD #1/ MULTI-PURPOSE FIELD #1

GRADING SHALL NOT ENCROACH ON 250' VERNAL POOL SETBACK, STAKE SETBACK PRIOR TO CONSTRUCTION

T.O.W. 263.00 B.O.W. 262.00

90 L.F. OF MODULAR BLOCK RETAINING WALL

GRADE 4' WIDE LEVEL BERM TO MAINTAIN MIN. 12" ABOVE BOTTOM OF VEGETATED SWALE

T.O.W. 263.00 B.O.W. 262.00

GRADE 4' WIDE LEVEL BERM TO MAINTAIN MIN. 12" ABOVE BOTTOM OF VEGETATED SWALE

UNDERDRAINED SOIL FILTER-12 BOTTOM EL.=261.00

FI-21 RIM=262.00

INSTALL RIPRAP APRON

GRADE W/ MAX. 5% SLOPE

PROTECT & ADJUST TO FINISH GRADE

CONSTRUCT UNDERDRAINED SOIL FILTER TRENCH-6 (UDST-6)

PROTECT EXISTING SEWER

INSTALL STONE CHECK DAM, TYP.

SMH-16 RIM=256.20

INSTALL RIPRAP APRON

CONSTRUCT 12" DEEP X 2' WIDE (BOTTOM) DEPRESSION @ UNDERDRAINED TRENCH

CONSTRUCT UNDERDRAINED SOIL FILTER TRENCH-7 (UDST-7)

GRADE TO DRAIN AS SHEET FLOW

CONSTRUCT 12" DEEP X 2' WIDE (BOTTOM) DEPRESSION @ UNDERDRAINED TRENCH

MAINTAIN 5' WIDE GRASSED WALKWAY, GRADE W/ 2% CROSS SLOPE

INSTALL EROSION CONTROL BLANKET EQUAL NORTH AMERICAN GREEN C125 BN ACROSS 1.5:1 (H:V) SIDESLOPES

INSTALL SILT FENCE @ TOE OF SLOPE ALONG WETLAND, TYP.

SEE SHEET C21 FOR CONTINUATION

SEE SHEET C31 FOR CONTINUATION

SEE SHEET C31 FOR CONTINUATION

NOTE:

1. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
2. TEST PIT NOTE: GARY FULLERTON, SOIL SCIENTIST, CSS 462, OBSERVED TEST PITS SHOWN ON THIS PLAN. PLEASE REFER TO SECTION 11 OF THE SITE LOCATION OF DEVELOPMENT PERMIT APPLICATION FOR THE TEST PIT LOGS AND SOILS REPORT.

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-122	271.5	132.0	260.5	UDSF-14	259.04	11.00
STI-123	256.4	40.0	253.1	UDSF-13	258.74	4.00 (48"-LEDGE)

GRAPHIC SCALE
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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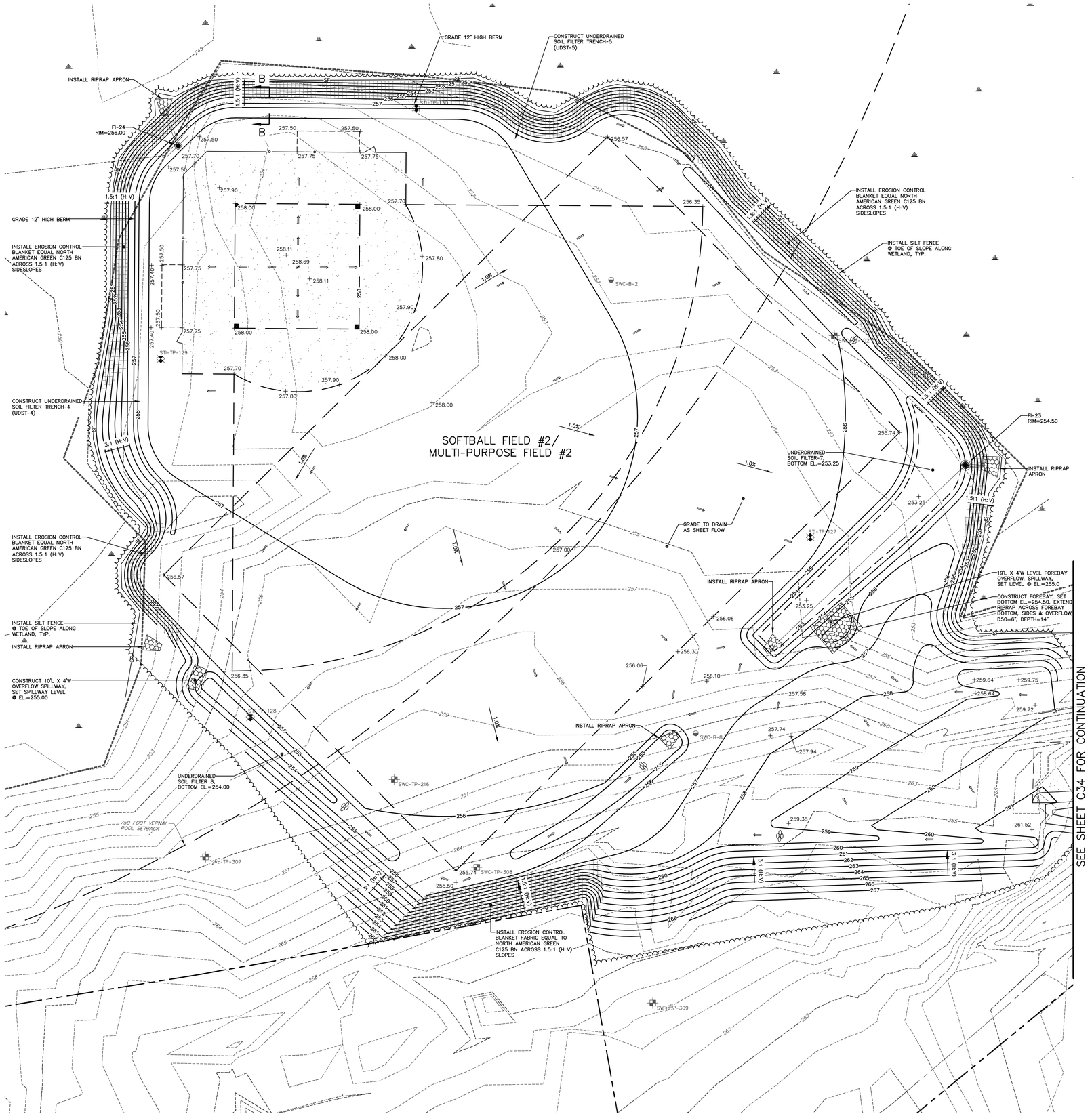
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

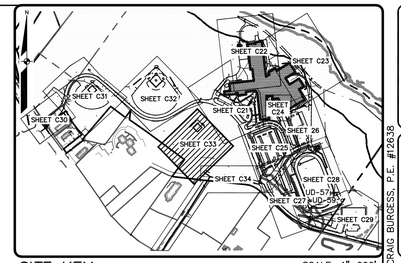
GRADING & EROSION CONTROL PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc320FC75

12233GU.dwg, TAB:GU-SHT 32





SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251 / 250	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

1. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
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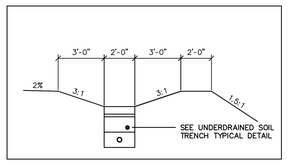
TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GRADE (FT.)	EXISTING SHWT		PROPOSED BMP STRUCTURE	UD INV. (OUTLET)	FINAL DEPTH OF TEST PIT
		DEPTH (IN.)	ELEV (FT.)			
STI-127	254.6	26.0	252.4	UDSF-8	250.60	5.00
STI-128	256.4	60.0	251.4	UDSF-9	251.25	5.00
STI-129	251.4	24.0	249.4	UDST-4	253.09	5.00
STI-130	250.9	10.0	250.1	UDST-5	253.09	5.00



SECTION B-B
1"=4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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250 Goddard Rd. Suite 2
Lewiston, ME 04240 Tel: 207-783-5836

GRADING & EROSION CONTROL PLAN

OF:
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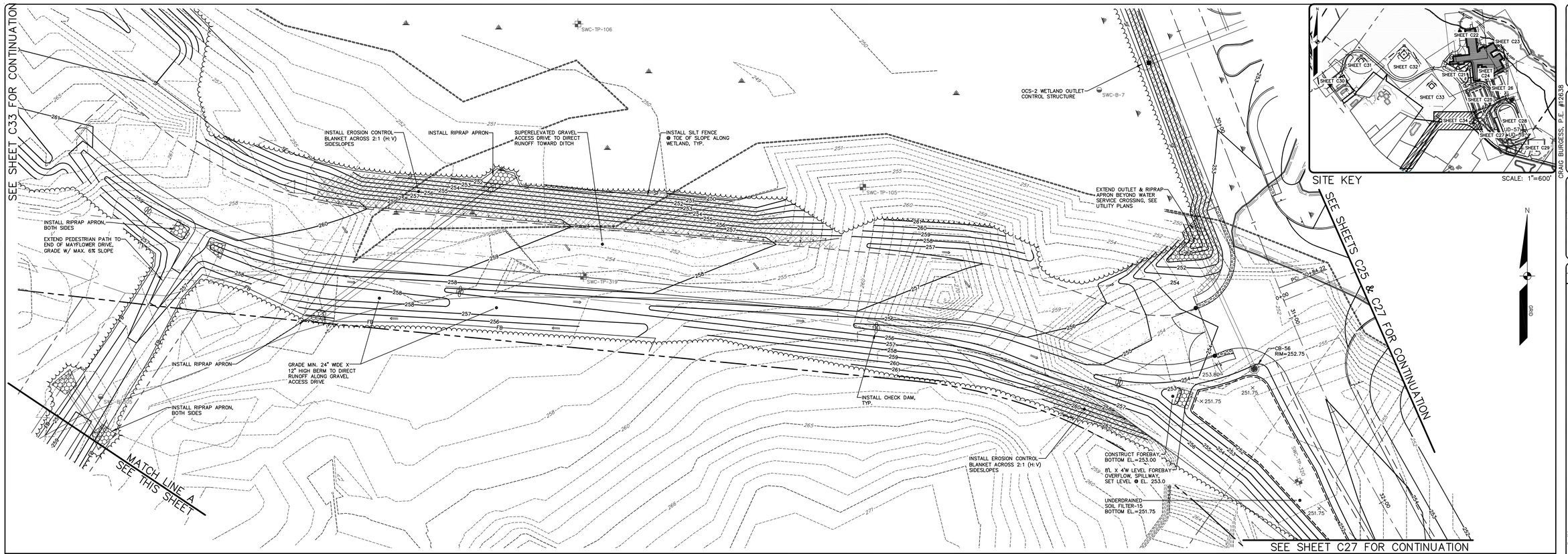
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

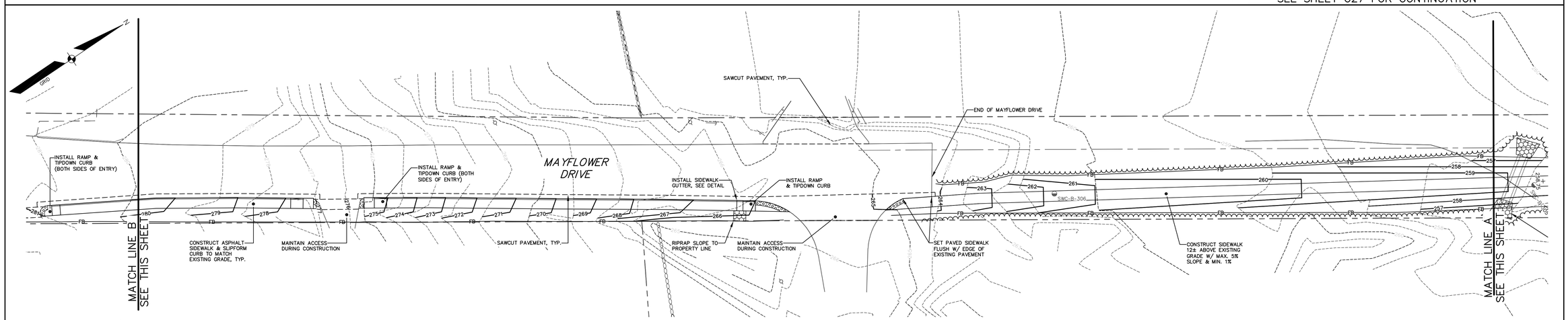
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

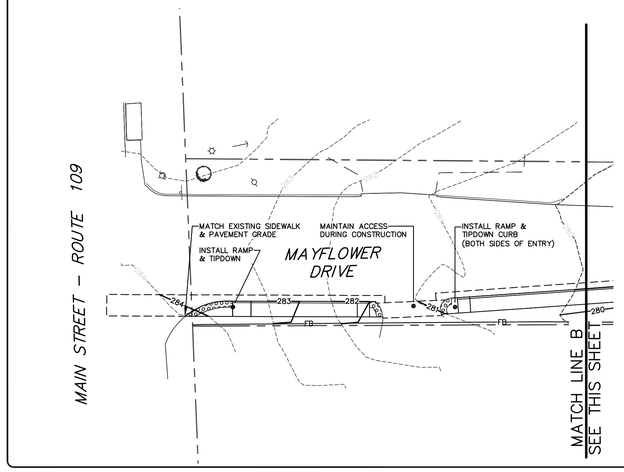
PROJECT NO.	SCALE
12233	1" = 20'

SHEETc330Fc75

12233GU.dwg, TAB: GU-SHT 33







LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	FLOODPLAIN	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	EDGE OF WATER	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
251	CONTOURS	250
	SPOT GRADE	250.00 +
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	LIGHT POLE	
	DRAINAGE DITCH	
	RIPRAP	
	INLET PROTECTION	
	CATCH BASIN	
	PERMEABLE PAVERS	
	TRUNCATED DOME	
	STAMPED ASPHALT	
	EROSION CONTROL BLANKET	

NOTE:

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GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
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INTERSECTION & OFFSITE IMPROVEMENTS PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

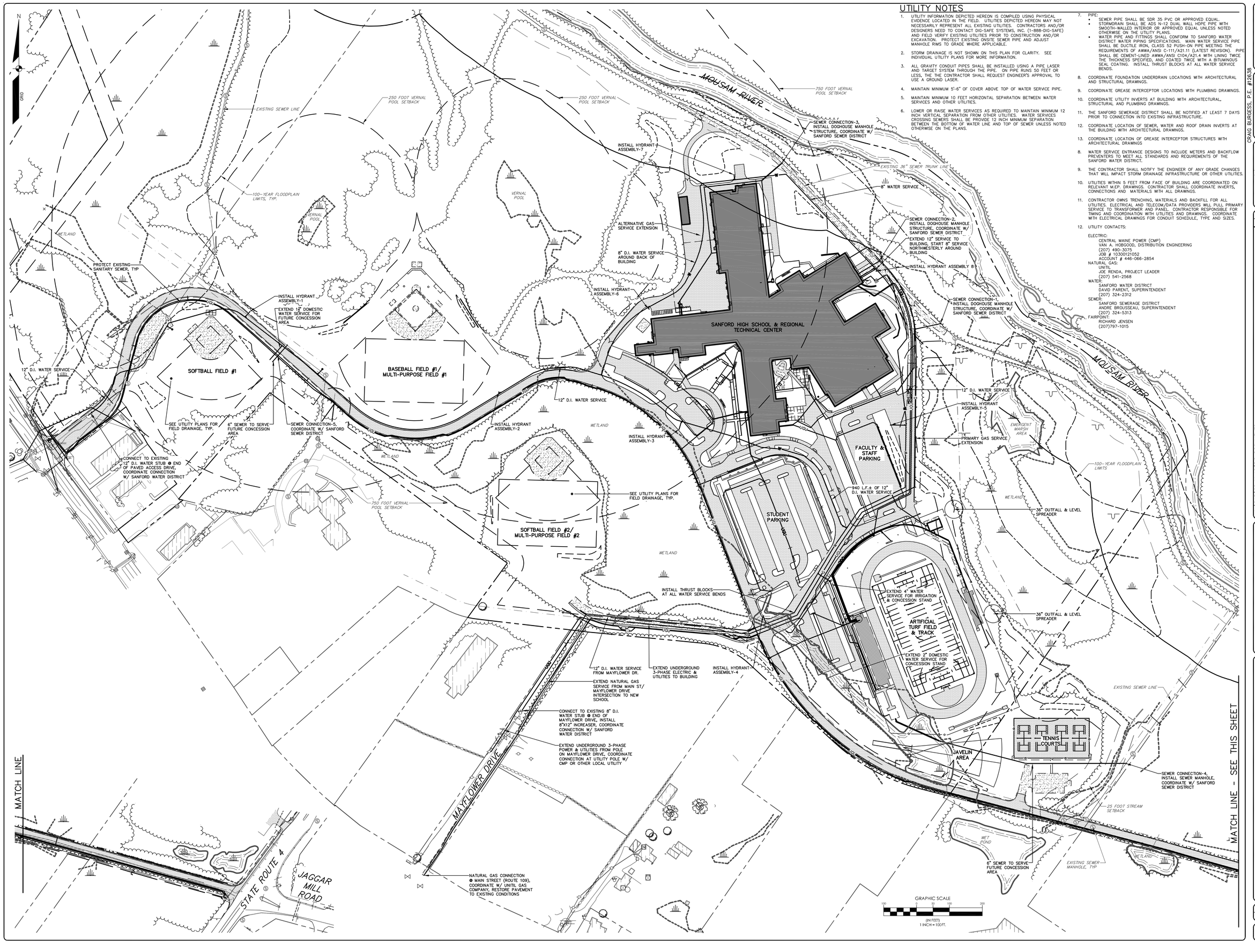
FOR:

SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C34 OF C75

12233GU.dwg, TAB:GU-SHT 34



UTILITY NOTES

1. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL EVIDENCE LOCATED IN THE FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR EXCAVATION. PROTECT EXISTING ONSITE SEWER PIPE AND ADJUST MANHOLE RIMS TO GRADE WHERE APPLICABLE.
2. STORM DRAINAGE IS NOT SHOWN ON THIS PLAN FOR CLARITY. SEE INDIVIDUAL UTILITY PLANS FOR MORE INFORMATION.
3. ALL GRAVITY CONDUIT PIPES SHALL BE INSTALLED USING A PIPE LASER AND TARGET SYSTEM THROUGH THE PIPE. ON PIPE RUNS 50 FEET OR LESS, THE THE CONTRACTOR SHALL REQUEST ENGINEER'S APPROVAL TO USE A GROUND LASER.
4. MAINTAIN MINIMUM 5'-6" OF COVER ABOVE TOP OF WATER SERVICE PIPE.
5. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES.
6. LOWER OR RAISE WATER SERVICES AS REQUIRED TO MAINTAIN MINIMUM 12 INCH VERTICAL SEPARATION FROM OTHER UTILITIES. WATER SERVICES CROSSING SEWERS SHALL BE PROVIDE 12 INCH MINIMUM SEPARATION BETWEEN THE BOTTOM OF WATER LINE AND TOP OF SEWER UNLESS NOTED OTHERWISE ON THE PLANS.
7. PIPE:
   - SEWER PIPE SHALL BE SDR 35 PVC OR APPROVED EQUAL.
   - STORMDRAIN SHALL BE ADS N-12 DUAL WALL HDPE PIPE WITH SMOOTH-WALLED INTERIOR OR APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE UTILITY PLANS.
   - WATER PIPE AND FITTINGS SHALL CONFORM TO SANFORD WATER DISTRICT WATER PIPING SPECIFICATIONS. MAIN WATER SERVICE PIPE SHALL BE DUCTILE IRON, CLASS 52 PUSH-ON PIPE MEETING THE REQUIREMENTS OF AWWA/ANSI C-111/A21.11 (LATEST REVISION). PIPE SHALL BE CEMENT-LINED AWWA/ANSI C104/A21.4 WITH LINING TWICE THE THICKNESS SPECIFIED, AND COATED TWICE WITH A BITUMINOUS SEAL COATING. INSTALL THRUST BLOCKS AT ALL WATER SERVICE BENDS.
8. COORDINATE FOUNDATION UNDERDRAIN LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
9. COORDINATE GREASE INTERCEPTOR LOCATIONS WITH PLUMBING DRAWINGS.
10. COORDINATE UTILITY INVERTS AT BUILDING WITH ARCHITECTURAL, STRUCTURAL AND PLUMBING DRAWINGS.
11. THE SANFORD SEWERAGE DISTRICT SHALL BE NOTIFIED AT LEAST 7 DAYS PRIOR TO CONNECTION INTO EXISTING INFRASTRUCTURE.
12. COORDINATE LOCATION OF SEWER, WATER AND ROOF DRAIN INVERTS AT THE BUILDING WITH ARCHITECTURAL DRAWINGS.
13. COORDINATE LOCATION OF GREASE INTERCEPTOR STRUCTURES WITH ARCHITECTURAL DRAWINGS
8. WATER SERVICE ENTRANCE DESIGNS TO INCLUDE METERS AND BACKFLOW PREVENTERS TO MEET ALL STANDARDS AND REQUIREMENTS OF THE SANFORD WATER DISTRICT.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY GRADE CHANGES THAT WILL IMPACT STORM DRAINAGE INFRASTRUCTURE OR OTHER UTILITIES.
10. UTILITIES WITHIN 5 FEET FROM FACE OF BUILDING ARE COORDINATED ON RELEVANT M.E.P. DRAWINGS. CONTRACTOR SHALL COORDINATE INVERTS, CONNECTIONS AND MATERIALS WITH ALL DRAWINGS.
11. CONTRACTOR OWNS TRENCHING, MATERIALS AND BACKFILL FOR ALL UTILITIES. ELECTRICAL AND TELECOM/DATA PROVIDERS WILL PULL PRIMARY SERVICE TO TRANSFORMER AND PANEL. CONTRACTOR RESPONSIBLE FOR TIMING AND COORDINATION WITH UTILITIES AND DRAWINGS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CONDUIT SCHEDULE, TYPE AND SIZES.
12. UTILITY CONTACTS:

ELECTRIC:
CENTRAL MAINE POWER (CMP)
VAN A. HOBGOOD, DISTRIBUTION ENGINEERING
(207) 490-3075
JOB # 10300121052
ACCOUNT # 446-066-2854

NATURAL GAS:
UNITIL
JOE RENDA, PROJECT LEADER
(207) 541-2568

WATER:
SANFORD WATER DISTRICT
DAVID PARENT, SUPERINTENDENT
(207) 324-2312

SEWER:
SANFORD SEWERAGE DISTRICT
ANDRE BROUSSEAU, SUPERINTENDENT
(207) 324-5313

FAIRPOINT:
RICHARD JENSEN
(207)797-1015

CRAIG BURGESS, P.E. #12538

STATE OF MAINE
CRAIG A. BURGESS
No. 12538
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR 85% CITY COMMENTS & REISSUED
F	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
E	CAB	10-20-15	ISSUED FOR 75%
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd.
South Portland, ME 04106
Tel: 207-200-2100
250 Gisland Rd.
Suite 1
Lewiston, ME 04240
Tel: 207-783-3656

OVERALL UTILITY PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEETC350FC75

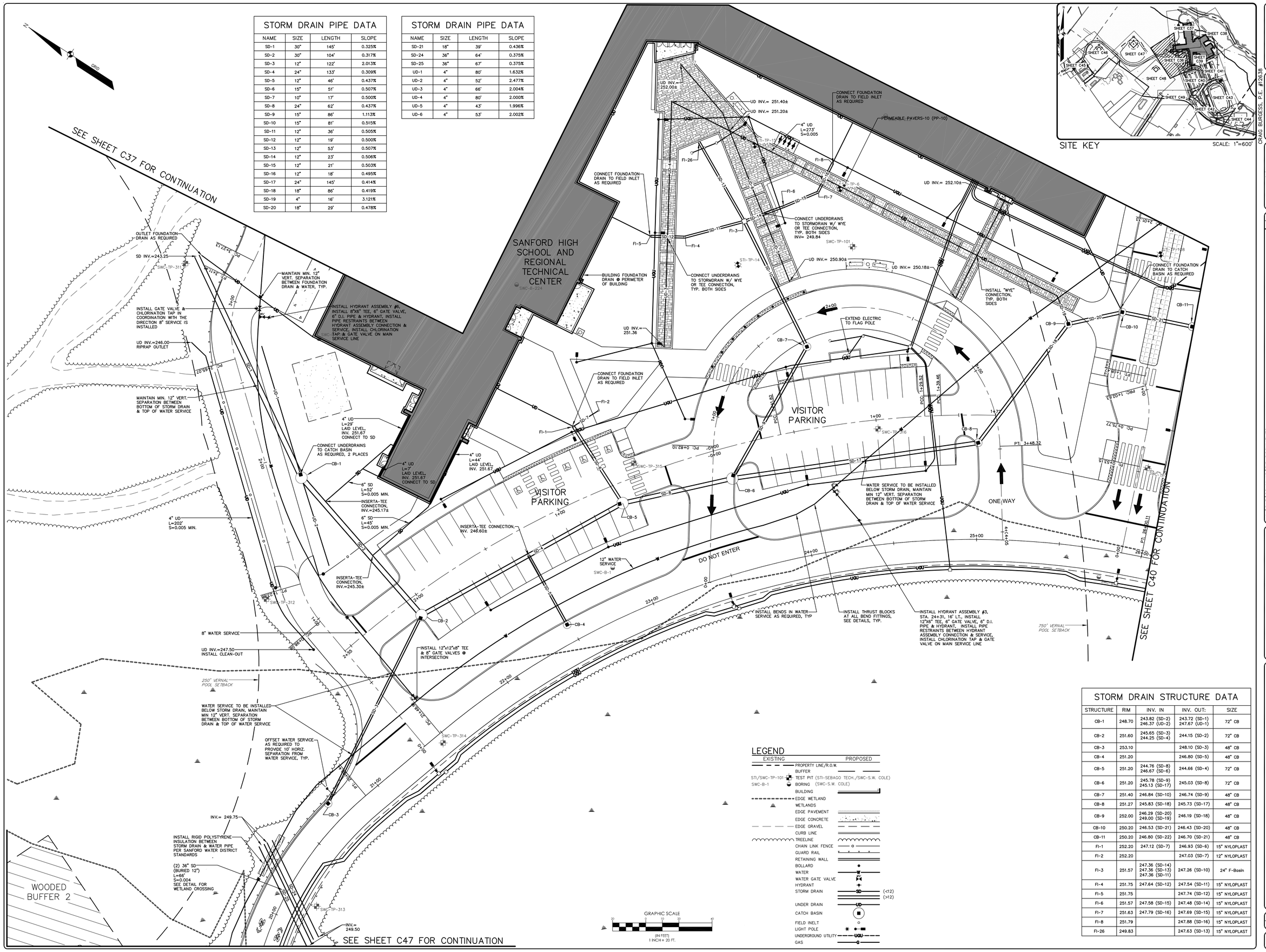
122330AU.dwg, TAB:OAGU-SHT 35

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-1	30"	145'	0.325%
SD-2	30"	104'	0.317%
SD-3	12"	122'	2.013%
SD-4	24"	133'	0.309%
SD-5	12"	46'	0.437%
SD-6	15"	51'	0.507%
SD-7	10"	17'	0.500%
SD-8	24"	62'	0.437%
SD-9	15"	86'	1.113%
SD-10	15"	81'	0.515%
SD-11	12"	36'	0.505%
SD-12	12"	19'	0.500%
SD-13	12"	53'	0.507%
SD-14	12"	23'	0.506%
SD-15	12"	21'	0.503%
SD-16	12"	18'	0.495%
SD-17	24"	145'	0.414%
SD-18	18"	86'	0.419%
SD-19	4"	16'	3.121%
SD-20	18"	29'	0.478%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-21	18"	39'	0.436%
SD-24	36"	64'	0.375%
SD-25	36"	67'	0.375%
UD-1	4"	80'	1.632%
UD-2	4"	52'	2.477%
UD-3	4"	66'	2.004%
UD-4	4"	80'	2.000%
UD-5	4"	43'	1.996%
UD-6	4"	53'	2.002%



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	WATER	
	WATER GATE VALVE	
	HYDRANT	
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	FIELD INELT	
	LIGHT POLE	
	UNDERGROUND UTILITY	UGU
	GAS	G

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-1	248.70	243.82 (SD-2) 246.37 (UD-2)	243.72 (SD-1) 247.67 (UD-1)	72" CB
CB-2	251.60	245.65 (SD-3) 244.25 (SD-4)	244.15 (SD-2)	72" CB
CB-3	253.10		248.10 (SD-3)	48" CB
CB-4	251.20		246.80 (SD-5)	48" CB
CB-5	251.20	244.76 (SD-8) 246.67 (SD-6)	244.66 (SD-4)	72" CB
CB-6	251.20	245.78 (SD-9) 245.13 (SD-17)	245.03 (SD-8)	72" CB
CB-7	251.40	246.84 (SD-10)	246.74 (SD-9)	48" CB
CB-8	251.27	245.83 (SD-18)	245.73 (SD-17)	48" CB
CB-9	252.00	246.29 (SD-20) 249.00 (SD-19)	246.19 (SD-18)	48" CB
CB-10	250.20	246.53 (SD-21)	246.43 (SD-20)	48" CB
CB-11	250.20	246.80 (SD-22)	246.70 (SD-21)	48" CB
FI-1	252.20	247.12 (SD-7)	246.93 (SD-6)	15" NYLOPLAST
FI-2	252.20		247.03 (SD-7)	12" NYLOPLAST
FI-3	251.57	247.36 (SD-14) 247.36 (SD-13) 247.36 (SD-11)	247.26 (SD-10)	24" F-Basin
FI-4	251.75	247.64 (SD-12)	247.54 (SD-11)	15" NYLOPLAST
FI-5	251.75		247.74 (SD-12)	15" NYLOPLAST
FI-6	251.57	247.58 (SD-15)	247.48 (SD-14)	15" NYLOPLAST
FI-7	251.63	247.79 (SD-16)	247.69 (SD-15)	15" NYLOPLAST
FI-8	251.79		247.88 (SD-16)	15" NYLOPLAST
FI-26	249.83		247.63 (SD-13)	15" NYLOPLAST

SITE KEY

SCALE: 1"=600'

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No. 12638
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UTILITY PLAN

OF:

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ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

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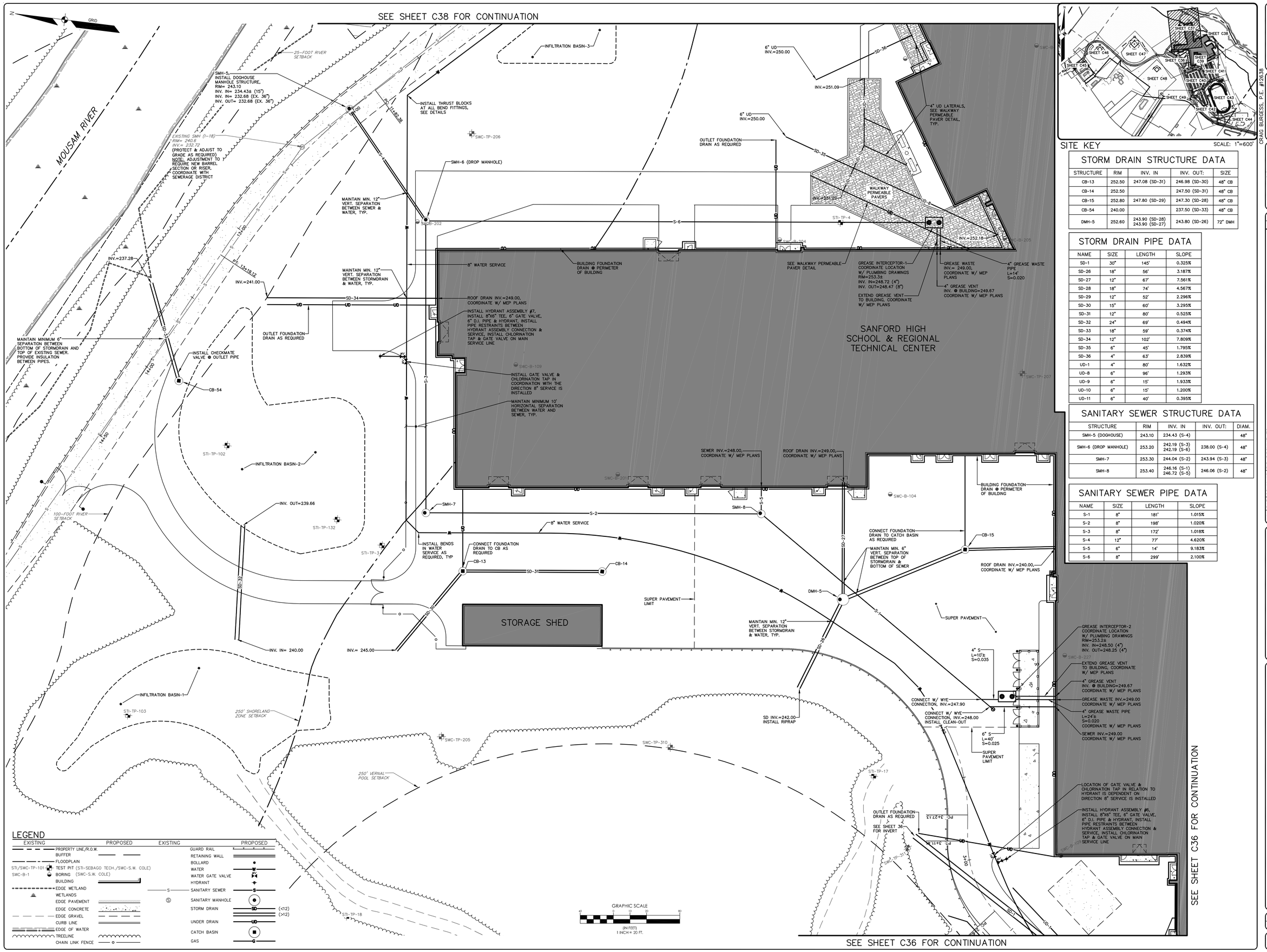
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C36 OF C75

12233U.dwg, TAB:U-SHT 36



SITE KEY

SCALE: 1"=600'

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-13	252.50	247.08 (SD-31)	246.98 (SD-30)	48" CB
CB-14	252.50		247.50 (SD-31)	48" CB
CB-15	252.80	247.80 (SD-29)	247.30 (SD-28)	48" CB
CB-54	240.00		237.50 (SD-33)	48" CB
DMH-5	252.60	243.90 (SD-28) 243.90 (SD-27)	243.80 (SD-26)	72" DMH

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-1	30"	145'	0.325%
SD-26	18"	56'	3.187%
SD-27	12"	67'	7.561%
SD-28	18"	74'	4.567%
SD-29	12"	52'	2.296%
SD-30	15"	60'	3.295%
SD-31	12"	80'	0.525%
SD-32	24"	69'	0.494%
SD-33	18"	59'	0.374%
SD-34	12"	102'	7.809%
SD-35	6"	45'	1.795%
SD-36	4"	63'	2.839%
UD-1	4"	80'	1.632%
UD-8	6"	96'	1.293%
UD-9	6"	15'	1.933%
UD-10	6"	15'	1.200%
UD-11	6"	40'	0.395%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-5 (DOGHOUSE)	243.10	234.43 (S-4)		48"
SMH-6 (DROP MANHOLE)	253.20	242.19 (S-3) 242.19 (S-6)	238.00 (S-4)	48"
SMH-7	253.30	244.04 (S-2)	243.94 (S-3)	48"
SMH-8	253.40	246.16 (S-1) 246.72 (S-5)	246.06 (S-2)	48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-1	8"	181'	1.015%
S-2	8"	198'	1.020%
S-3	8"	172'	1.018%
S-4	12"	77'	4.620%
S-5	6"	14'	9.183%
S-6	8"	299'	2.100%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

UTILITY PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETC370FC75

12233U.dwg, TAB:U-SHT 37

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-16	240.25	236.64 (SD-42) 237.64 (SD-39) 235.74 (SD-40)	235.64 (SD-38)	72" CB (DOUBLE GRATE)
CB-17	240.50	236.00 (SD-41)	235.90 (SD-40)	48" CB
CB-18	240.50		236.50 (SD-41)	48" CB
CB-19	242.00	237.28 (SD-43)	237.18 (SD-42)	48" CB
FI-25	247.30	245.15 (UD-12)	242.50 (SD-39)	12" NYLOPLAST

SANITARY SEWER STRUCTURE DATA

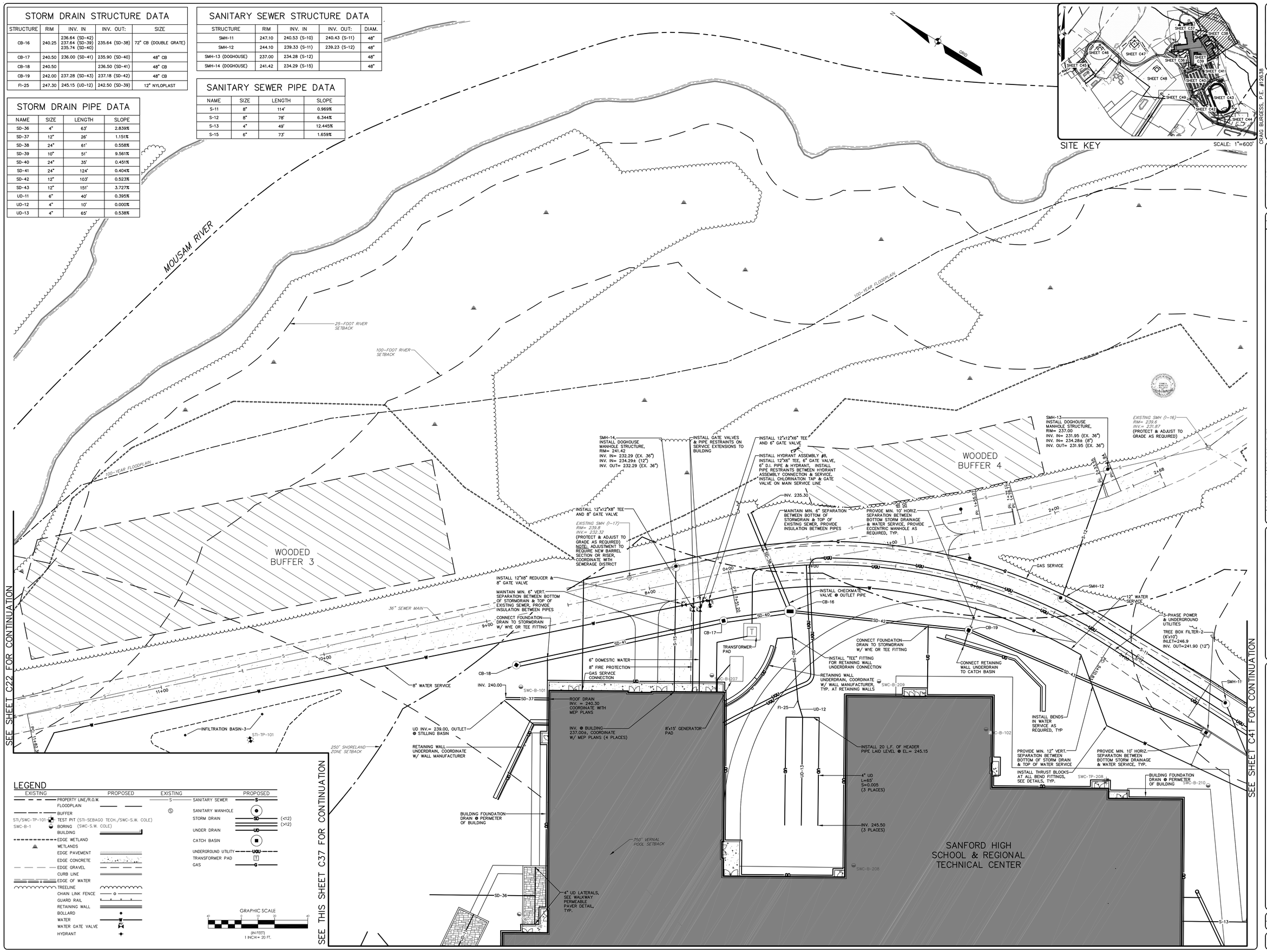
STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-11	247.10	240.53 (S-10)	240.43 (S-11)	48"
SMH-12	244.10	239.33 (S-11)	239.23 (S-12)	48"
SMH-13 (DOGHOUSE)	237.00	234.28 (S-12)		48"
SMH-14 (DOGHOUSE)	241.42	234.29 (S-15)		48"

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-36	4"	63'	2.839%
SD-37	12"	26'	1.151%
SD-38	24"	61'	0.556%
SD-39	10"	51'	9.561%
SD-40	24"	35'	0.451%
SD-41	24"	124'	0.404%
SD-42	12"	103'	0.523%
SD-43	12"	151'	3.727%
UD-11	6"	40'	0.395%
UD-12	4"	10'	0.000%
UD-13	4"	65'	0.538%

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-11	8"	114'	0.969%
S-12	8"	78'	6.344%
S-13	4"	49'	12.445%
S-15	6"	73'	1.659%



CRAIG BURGESS, P.E. #12538

STATE OF MAINE CRAIG A. BURGESS No. 12538 PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. South Portland, ME 04106 Tel: 207-200-2100
250 Gladiolus Rd. Suite 1 Lewiston, ME 04240 Tel: 207-783-5858

UTILITY PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER

ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

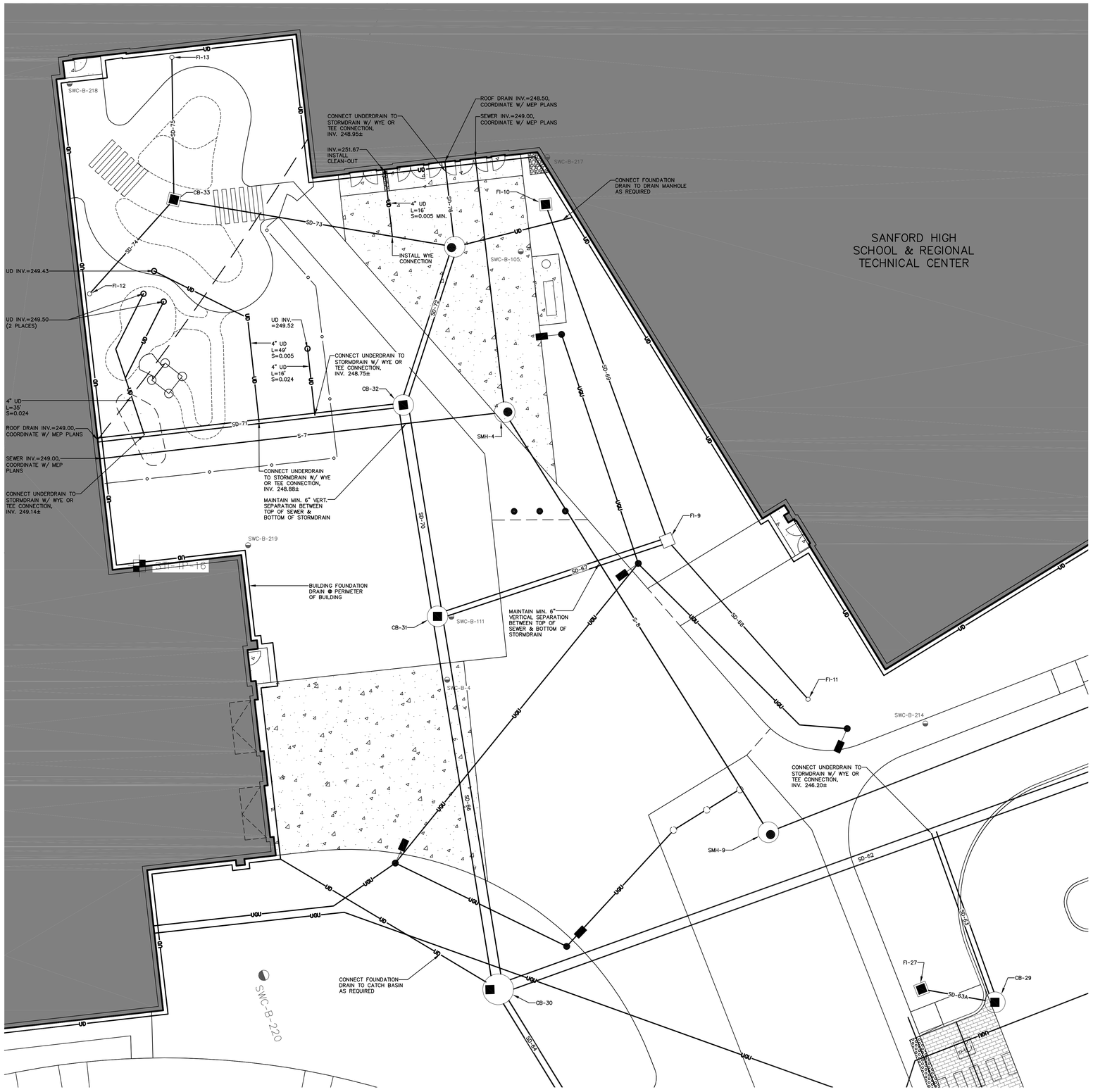
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

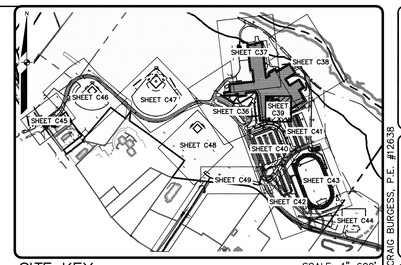
SHEETc380Fc75

122330.dwg, TAB:U-SHT 38



EASTERLY ENTRANCE
SCALE: 1"=10'

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 INCH = 10 FT.



SITE KEY
SCALE: 1"=600'

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-29	251.40	247.10 (SD-63A)	247.00 (SD-63)	48" CB
CB-30	251.60	246.33 (SD-64) 246.33 (SD-66)	246.23 (SD-62)	72" CB
CB-31	252.50	247.35 (SD-70) 247.35 (SD-67)	247.25 (SD-66)	48" CB
CB-32	250.84	248.30 (SD-72) 248.30 (SD-71)	248.20 (SD-70)	48" CB
CB-33	253.40	249.10 (SD-74) 249.10 (SD-75)	248.93 (SD-73)	24" F-Basin
FI-9	252.50	248.10 (SD-68) 248.10 (SD-69)	248.00 (SD-67)	24" F-Basin
FI-10	253.50		248.90 (SD-69)	12" NYLOPLAST
FI-11	252.00		248.60 (SD-68)	12" NYLOPLAST

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-62	24"	176'	0.415%
SD-63	12"	40'	1.989%
SD-63A	10"	14'	1.427%
SD-64	15"	138'	0.413%
SD-66	24"	82'	1.116%
SD-67	12"	53'	1.226%
SD-68	10"	48'	1.052%
SD-69	10"	81'	0.985%
SD-70	24"	46'	1.864%
SD-71	10"	69'	1.012%
SD-73	10"	65'	0.509%
SD-74	10"	28'	1.451%
SD-75	10"	31'	1.274%
SD-76	10"	20'	2.016%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-4	248.84	246.40 (S-7) 246.40 (S-14)	246.30 (S-8)	48"
SMH-9	252.30	245.00 (S-8)	244.90 (S-9)	48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-7	6"	92'	2.817%
S-8	8"	113'	1.152%
S-14	4"	57'	4.545%

LEGEND

EXISTING		PROPOSED
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	BUFFER	
	BUILDING	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	CURB LINE	
	EDGE GRAVEL	
	BOLLARD	
	CHAIN LINK FENCE	
	SANITARY SEWER	S
	SANITARY MANHOLE	
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	FIELD INLET	
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	RESUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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UTILITY PLAN

OF:
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SANFORD, MAINE 04073

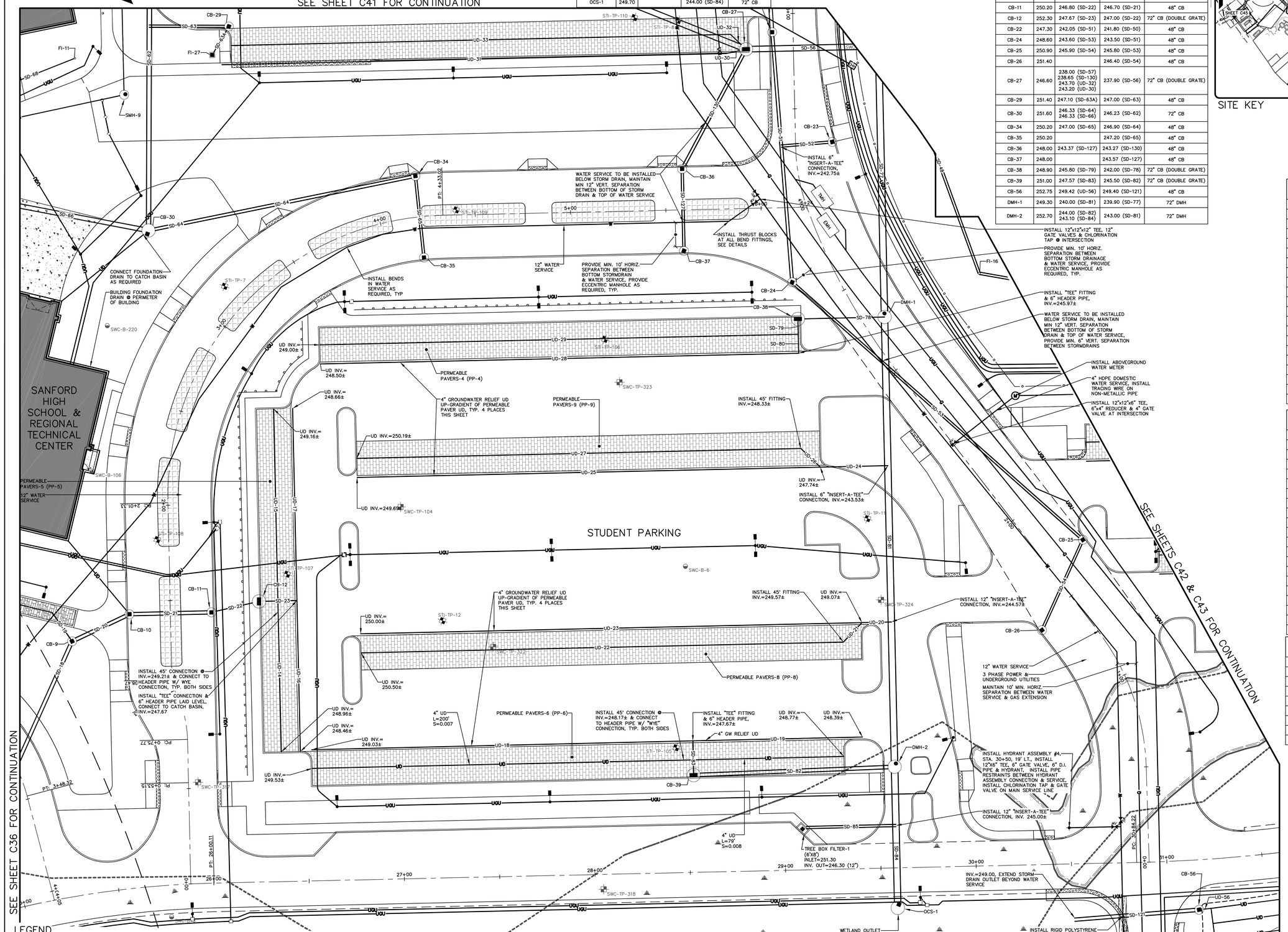
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 10'

SHEETC39OFC75

12233U.dwg, TAB:U-SHT 39

SEE SHEET C41 FOR CONTINUATION



STORM DRAIN STRUCTURE DATA

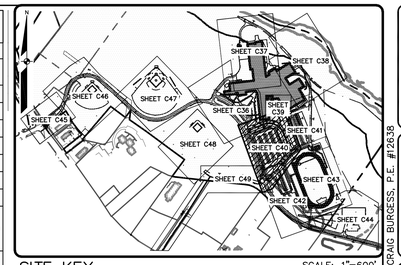
STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
FI-16	245.00	241.82 (SD-49)	241.72 (SD-48)	15" NYLOPLAST
FI-27	251.00		247.30 (SD-63A)	24" F-Basin
OCS-1	249.70		244.00 (SD-84)	72" CB

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-9	252.30	245.00 (S-8)	244.90 (S-9)	48"

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-9	252.00	246.29 (SD-20) 249.00 (SD-19)	246.19 (SD-18)	48" CB
CB-10	250.20	246.53 (SD-21)	246.43 (SD-20)	48" CB
CB-11	250.20	246.80 (SD-22)	246.70 (SD-21)	48" CB
CB-12	252.30	247.67 (SD-23)	247.00 (SD-22)	72" CB (DOUBLE GRATE)
CB-22	247.30	242.05 (SD-51)	241.80 (SD-50)	48" CB
CB-24	248.60	243.60 (SD-53)	243.50 (SD-51)	48" CB
CB-25	250.90	245.90 (SD-54)	245.80 (SD-53)	48" CB
CB-26	251.40		246.40 (SD-54)	48" CB
CB-27	246.60	238.00 (SD-57) 238.65 (SD-130) 243.70 (UD-32) 243.20 (UD-30)	237.90 (SD-56)	72" CB (DOUBLE GRATE)
CB-29	251.40	247.10 (SD-63A)	247.00 (SD-63)	48" CB
CB-30	251.60	246.33 (SD-64) 246.33 (SD-66)	246.23 (SD-62)	72" CB
CB-34	250.20	247.00 (SD-65)	246.90 (SD-64)	48" CB
CB-35	250.20		247.20 (SD-65)	48" CB
CB-36	248.00	243.37 (SD-127)	243.27 (SD-130)	48" CB
CB-37	248.00		243.57 (SD-127)	48" CB
CB-38	248.90	245.80 (SD-79)	242.00 (SD-78)	72" CB (DOUBLE GRATE)
CB-39	251.00	247.57 (SD-83)	245.50 (SD-82)	72" CB (DOUBLE GRATE)
CB-56	252.75	249.42 (UD-56)	249.40 (SD-121)	48" CB
DMH-1	249.30	240.00 (SD-81)	239.90 (SD-77)	72" DMH
DMH-2	252.70	244.00 (SD-82) 243.10 (SD-84)	243.00 (SD-81)	72" DMH



SITE KEY

SCALE: 1"=600'

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-18	18"	86'	0.419%
SD-20	18"	29'	0.478%
SD-21	18"	39'	0.436%
SD-22	15"	21'	0.969%
SD-23	6"	17'	0.000%
SD-48	12"	119'	0.403%
SD-51	15"	128'	1.136%
SD-52	12"	25'	1.005%
SD-53	12"	200'	1.102%
SD-54	12"	48'	1.041%
SD-56	30"	63'	0.551%
SD-62	24"	176'	0.415%
SD-63	12"	40'	1.989%
SD-63A	10"	14'	1.427%
SD-64	15"	138'	0.413%
SD-65	12"	39'	0.513%
SD-66	24"	82'	1.116%
SD-77	36"	136'	1.890%
SD-78	18"	42'	2.590%
SD-79	6"	5'	0.600%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-80	6"	10'	1.400%
SD-81	36"	230'	1.304%
SD-82	18"	99'	1.508%
SD-83	6"	15'	0.667%
SD-84	36"	68'	1.324%
SD-85	12"	47'	3.303%
SD-121	18"	63'	0.631%
SD-127	12"	39'	0.513%
SD-130	15"	66'	6.983%
UD-14	4"	79'	1.628%
UD-15	4"	101'	1.478%
UD-16	4"	79'	0.997%
UD-17	4"	101'	0.982%
UD-18	4"	200'	0.680%
UD-19	4"	89'	0.809%
UD-20	6"	15'	29.195%
UD-21	4"	14'	3.536%
UD-22	4"	253'	0.368%
UD-23	4"	263'	0.354%
UD-24	6"	35'	11.504%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
UD-25	4"	243'	0.893%
UD-26	4"	14'	5.091%
UD-27	4"	233'	0.931%
UD-28	4"	251'	1.008%
UD-29	4"	251'	0.996%
UD-31	4"	265'	1.800%
UD-32	4"	8'	4.811%
UD-33	4"	262'	1.469%

SEE SHEET C49 FOR CONTINUATION

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
STI/SWC-TP-101 TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	BUFFER	EDGE OF WATER		WATER MANHOLE	
SWC-B-1 BORING (SWC-S.W. COLE)	BUILDING	TREELINE		SANITARY SEWER	S
EDGE WETLAND	WETLANDS	CHAIN LINK FENCE		SANITARY MANHOLE	
	EDGE PAVEMENT	GUARD RAIL		STORM DRAIN	SD (<12) (>12)
	EDGE CONCRETE	RETAINING WALL		UNDER DRAIN	UD
	PAVEMENT PAINT	BOLLARD		CATCH BASIN	
	EDGE GRAVEL	SIGN		FIELD INLET	
	CURB LINE	GAS	G	UNDERGROUND UTILITY	UGU
		WATER	W	LIGHT POLE	
		WATER GATE VALVE			
		HYDRANT			

CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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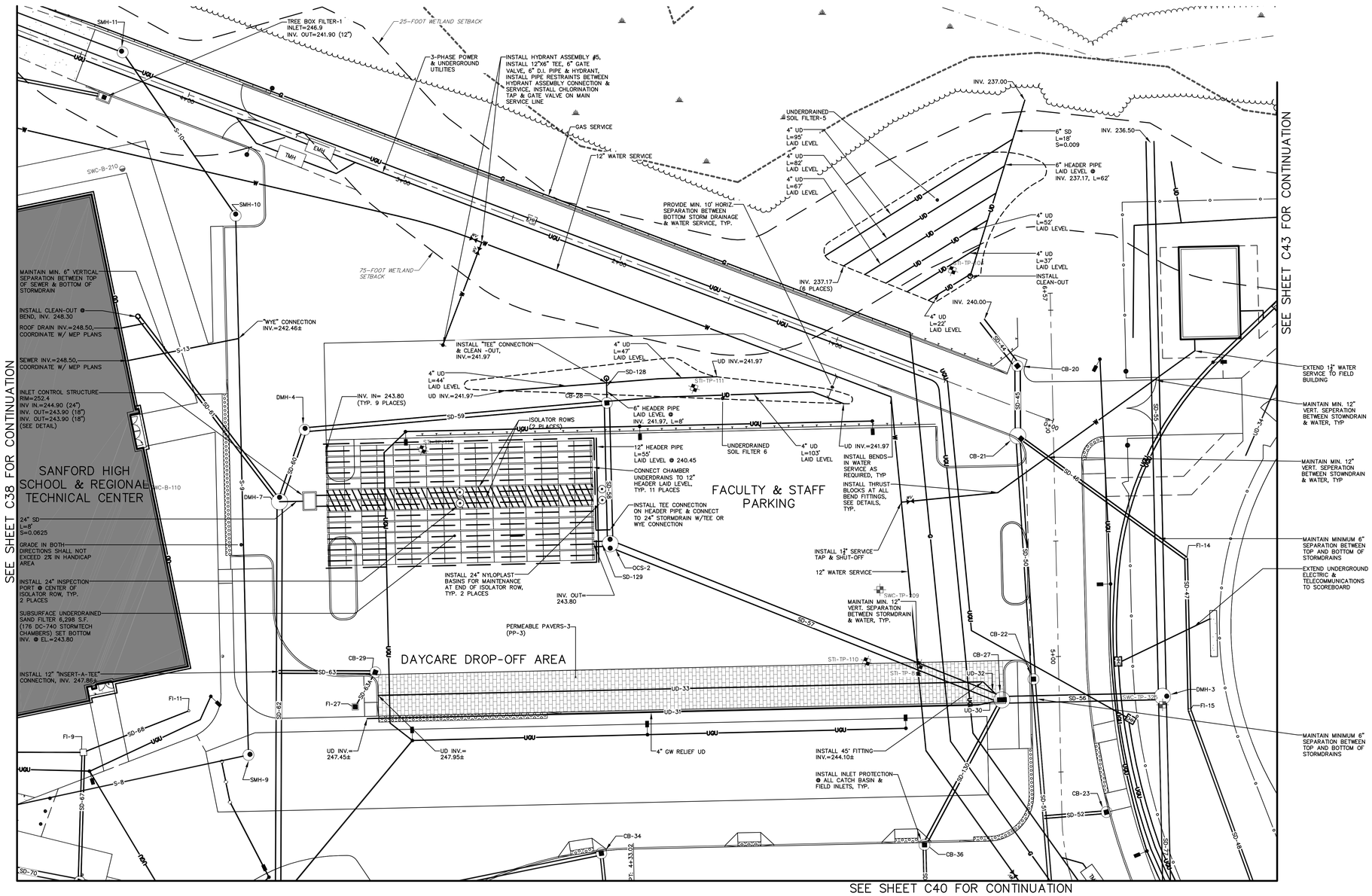
South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Suite 3
Lewiston, ME 04240 Tel: 207-783-5656

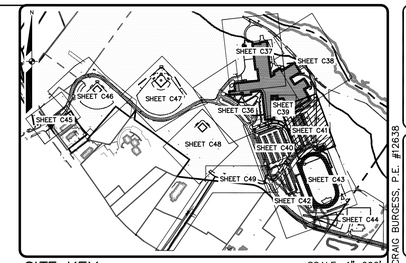
UTILITY PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc400FC75

12233U.dwg, TAB:U-SHT 40





SITE KEY SCALE: 1"=600'

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-20	245.60	240.20 (SD-45)	240.10 (SD-44)	CB-ST-48
CB-21	245.60	240.82 (SD-50) 240.42 (SD-46)	240.32 (SD-45)	72" CB
CB-22	247.30	242.05 (SD-51)	241.80 (SD-50)	48" CB
CB-23	247.90		243.00 (SD-52)	48" CB
CB-27	246.60	238.00 (SD-57) 238.65 (SD-130) 243.70 (UD-32) 243.20 (UD-30)	237.90 (SD-56)	72" CB (DOUBLE GRATE)
CB-28	245.50	240.90 (SD-59) 241.97 (SD-128)	240.80 (SD-58)	48" CB
CB-29	251.40	247.10 (SD-63A)	247.00 (SD-63)	48" CB
CB-34	250.20	247.00 (SD-65)	246.90 (SD-64)	48" CB
CB-36	248.00	243.37 (SD-127)	243.27 (SD-130)	48" CB
DMH-3	245.50	237.55 (SD-56) 237.33 (SD-77)	237.23 (SD-55)	72" DMH
DMH-4	251.80	245.18 (SD-60)	245.08 (SD-59)	48" DMH
DMH-7	252.50	245.50 (SD-62) 247.30 (SD-61)	246.30 (SD-60)	72" DMH
FI-9	252.50	248.10 (SD-68) 248.10 (SD-69)	248.00 (SD-67)	24" F-Basin
FI-14	245.00	240.88 (SD-47)	240.78 (SD-46)	15" NYLOPLAST
FI-15	245.00	241.24 (SD-48)	241.14 (SD-47)	15" NYLOPLAST
OCS-2	250.40	240.35 (SD-58) 243.60 (SD-129)	240.25 (SD-57)	72" OCS

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-44	24"	23'	0.441%
SD-45	24"	25'	0.476%
SD-46	12"	87'	0.416%
SD-47	12"	64'	0.404%
SD-50	18"	101'	0.974%
SD-51	15"	128'	1.136%
SD-52	12"	25'	1.005%
SD-55	36"	237'	0.308%
SD-56	30"	63'	0.551%
SD-57	30"	176'	1.281%
SD-58	24"	55'	0.818%
SD-59	18"	127'	3.280%
SD-60	18"	29'	3.869%
SD-61	15"	99'	1.010%
SD-62	24"	176'	0.415%
SD-63	12"	40'	1.989%
SD-67	12"	53'	1.226%
SD-129	24"	3'	6.667%
SD-130	15"	66'	6.983%
UD-31	4"	265'	1.800%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
UD-33	4"	262'	1.469%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-9	252.30	245.00 (S-8)	244.90 (S-9)	48"
SMH-10	249.30	241.60 (S-9)	241.50 (S-10)	48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-8	8"	113'	1.152%
S-9	8"	232'	1.425%
S-10	8"	82'	1.183%
S-11	8"	114'	0.969%
S-13	4"	49'	12.445%

LEGEND

EXISTING		PROPOSED
	EASEMENT	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	GAS	
	WATER	
	WATER GATE VALVE	
	HYDRANT	
	SANITARY SEWER	
	SANITARY MANHOLE	
	STORM DRAIN	(<12) (>12)
	UNDER DRAIN	
	CATCH BASIN	
	FIELD INLET	
	UNDERGROUND UTILITY	
	LIGHT POLE	

GRAPHIC SCALE
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	RESUBMITTED CITY COMMENTS & REISSUED
F	CAB	10-29-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SEBAGO TECHNICS
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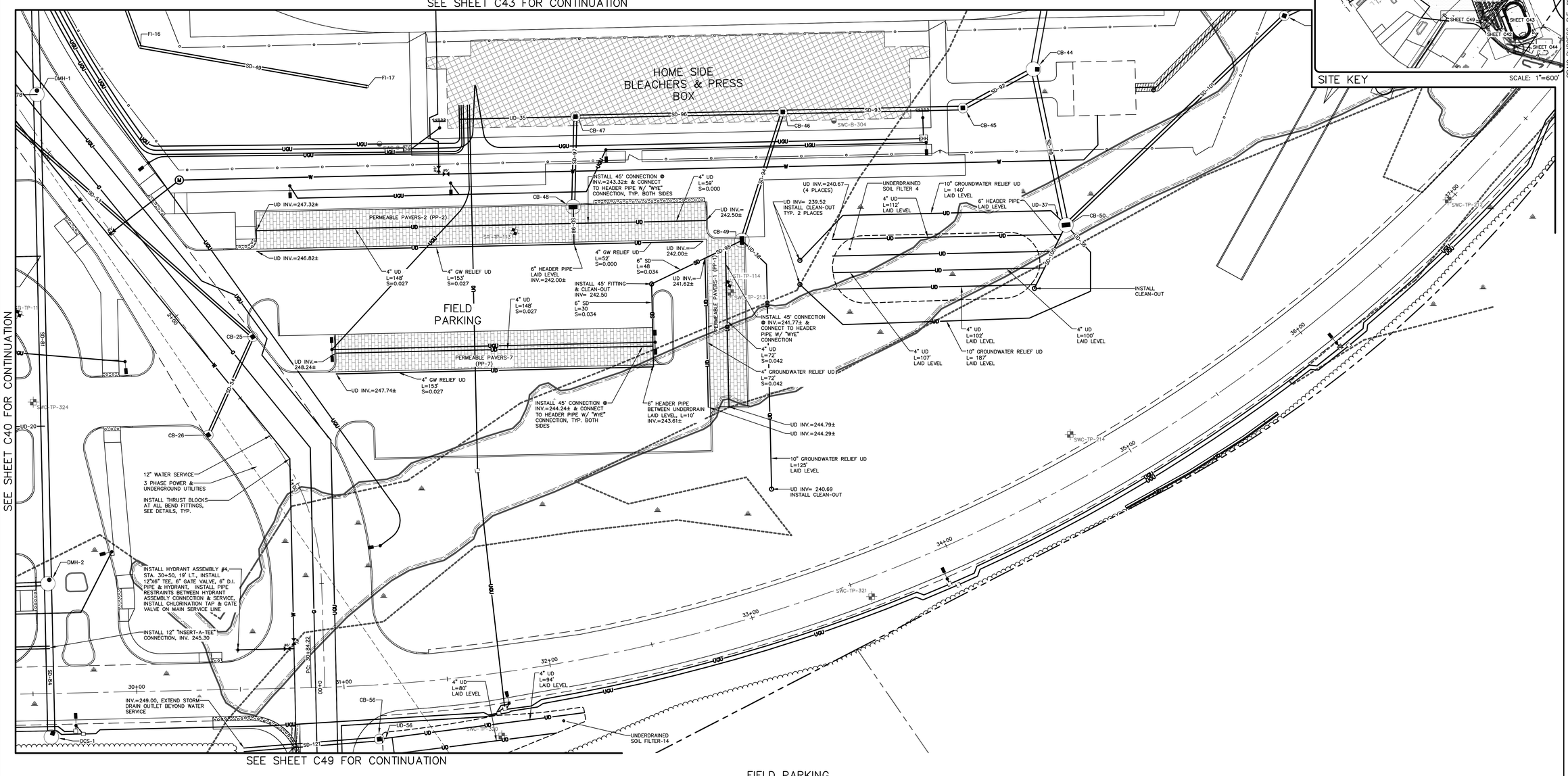
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-5656

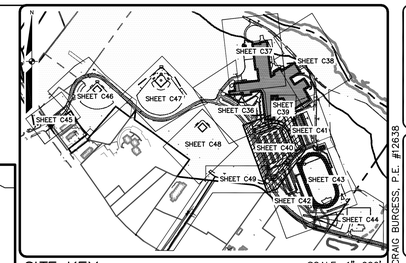
UTILITY PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C41 OF C75

122330.dwg, TAB:U-SHT 41





SITE KEY SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	EASEMENT	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	GAS	G
	WATER	W
	WATER GATE VALVE	WV
	HYDRANT	
	POTABLE WELL	W
	SANITARY SEWER	S
	SANITARY MANHOLE	S
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	FIELD INLET	
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-25	250.90	245.90 (SD-54)	245.80 (SD-53)	48" CB
CB-26	251.40		246.40 (SD-54)	48" CB
CB-44	245.60	239.50 (SD-92) 239.11 (SD-99)	239.01 (SD-91)	72" CB
CB-45	245.00	239.85 (SD-93)	239.75 (SD-92)	48" CB
CB-46	244.50	240.30 (SD-96) 240.30 (SD-94)	240.20 (SD-93)	72" CB
CB-47	244.50	241.24 (UD-35) 240.80 (SD-97)	240.70 (SD-96)	48" CB
CB-48	246.10	242.00 (SD-98)	241.00 (SD-97)	72" CB (DOUBLE GRATE)
CB-49	244.90	240.94 (SD-95) 240.69 (UD-38)	240.59 (SD-94)	72" CB (DOUBLE GRATE)
CB-50	244.20	240.67 (SD-100) 239.52 (SD-101) 239.52 (UD-36) 239.52 (UD-37)	239.42 (SD-99)	72" CB (DOUBLE GRATE)
CB-56	252.75	249.42 (UD-56)	249.40 (SD-121)	48" CB
DMH-1	249.30	240.00 (SD-81)	239.90 (SD-77)	72" DMH
DMH-2	252.70	244.00 (SD-82) 243.10 (SD-84)	243.00 (SD-81)	72" DMH
FI-16	245.00	241.82 (SD-49)	241.72 (SD-48)	15" NYLOPLAST
FI-17	245.00		242.27 (SD-49)	15" NYLOPLAST

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-49	12"	110'	0.409%
SD-53	12"	200'	1.102%
SD-54	12"	48'	1.041%
SD-81	36"	230'	1.304%
SD-84	36"	68'	1.324%
SD-92	18"	34'	0.739%
SD-93	18"	82'	0.428%
SD-94	15"	59'	0.491%
SD-95	10"	17'	4.054%
SD-96	15"	95'	0.421%
SD-97	15"	39'	0.519%
SD-98	6"	15'	0.000%
SD-99	24"	71'	0.438%
SD-100	6"	31'	0.000%
SD-101	15"	141'	0.412%
SD-121	18"	63'	0.631%
UD-20	6"	15'	29.195%
UD-24	6"	35'	11.504%
UD-35	4"	54'	2.071%
UD-36	4"	15'	0.000%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
UD-37	4"	7'	0.000%
UD-40	10"	7'	0.000%
UD-41	10"	16'	0.000%

FIELD PARKING

SCALE: 1"=20'

GRAPHIC SCALE
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	RESUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite A
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Tel. 207-200-2100
250 Gladiator Rd.
Lewiston, ME 04240
Tel. 207-783-5656

UTILITY PLAN

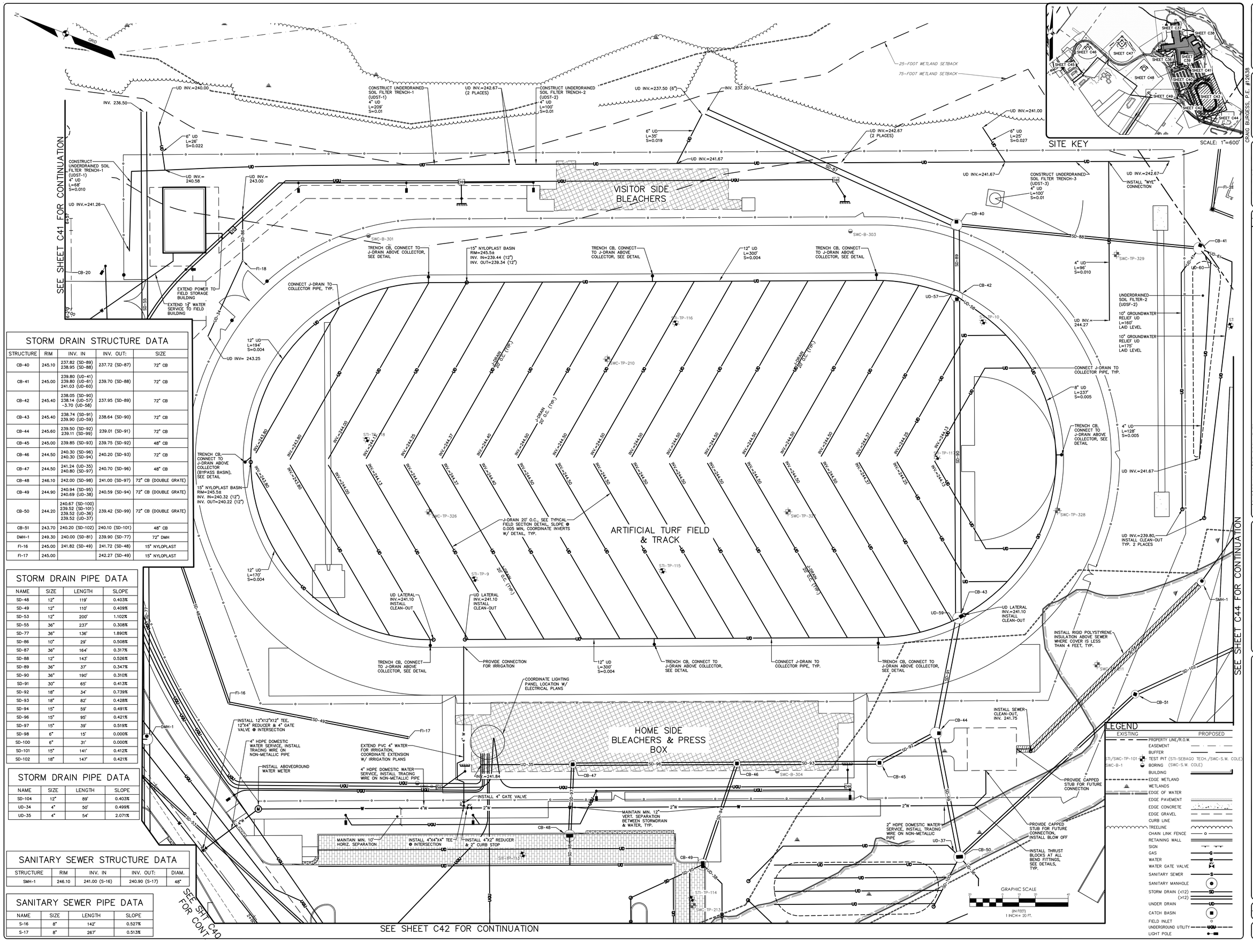
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc420Fc75

12233U.dwg, TAB:U-SHT 42



STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-40	245.10	237.82 (SD-89) 238.95 (SD-88)	237.72 (SD-87)	72" CB
CB-41	245.00	239.80 (UD-41) 239.80 (UD-61) 241.03 (UD-60)	239.70 (SD-88)	72" CB
CB-42	245.40	238.05 (SD-90) 238.14 (UD-57) -3.70 (UD-58)	237.95 (SD-89)	72" CB
CB-43	245.40	238.74 (SD-91) 239.90 (UD-59)	238.64 (SD-90)	72" CB
CB-44	245.60	239.50 (SD-92) 239.11 (SD-99)	239.01 (SD-91)	72" CB
CB-45	245.00	239.85 (SD-93)	239.75 (SD-92)	48" CB
CB-46	244.50	240.30 (SD-96) 240.30 (SD-94)	240.20 (SD-93)	72" CB
CB-47	244.50	241.24 (UD-35) 240.80 (SD-97)	240.70 (SD-96)	48" CB
CB-48	246.10	242.00 (SD-98)	241.00 (SD-97)	72" CB (DOUBLE GRATE)
CB-49	244.90	240.94 (SD-95) 240.69 (UD-38)	240.59 (SD-94)	72" CB (DOUBLE GRATE)
CB-50	244.20	240.67 (SD-100) 239.52 (SD-101) 239.52 (UD-36) 239.52 (UD-37)	239.42 (SD-99)	72" CB (DOUBLE GRATE)
CB-51	243.70	240.20 (SD-102)	240.10 (SD-101)	48" CB
DMH-1	249.30	240.00 (SD-81)	239.90 (SD-77)	72" DMH
FI-16	245.00	241.82 (SD-49)	241.72 (SD-48)	15" NYLOPLAST
FI-17	245.00		242.27 (SD-49)	15" NYLOPLAST

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-48	12"	119'	0.403%
SD-49	12"	110'	0.409%
SD-53	12"	200'	1.102%
SD-55	36"	237'	0.308%
SD-77	36"	136'	1.890%
SD-86	10"	29'	0.508%
SD-87	36"	164'	0.317%
SD-88	12"	143'	0.526%
SD-89	36"	37'	0.347%
SD-90	36"	190'	0.310%
SD-91	30"	65'	0.413%
SD-92	18"	34'	0.739%
SD-93	18"	82'	0.428%
SD-94	15"	59'	0.491%
SD-96	15"	95'	0.421%
SD-97	15"	39'	0.519%
SD-98	6"	15'	0.000%
SD-100	6"	31'	0.000%
SD-101	15"	141'	0.412%
SD-102	18"	147'	0.421%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-104	12"	89'	0.403%
UD-34	4"	50'	0.499%
UD-35	4"	54'	2.071%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-1	246.10	241.00 (S-16)	240.90 (S-17)	48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-16	8"	142'	0.527%
S-17	8"	267'	0.513%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
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Tel: 207-200-2100
250 Goddard Rd. Suite 3
Lewiston, ME 04240
Tel: 207-783-5836

UTILITY PLAN

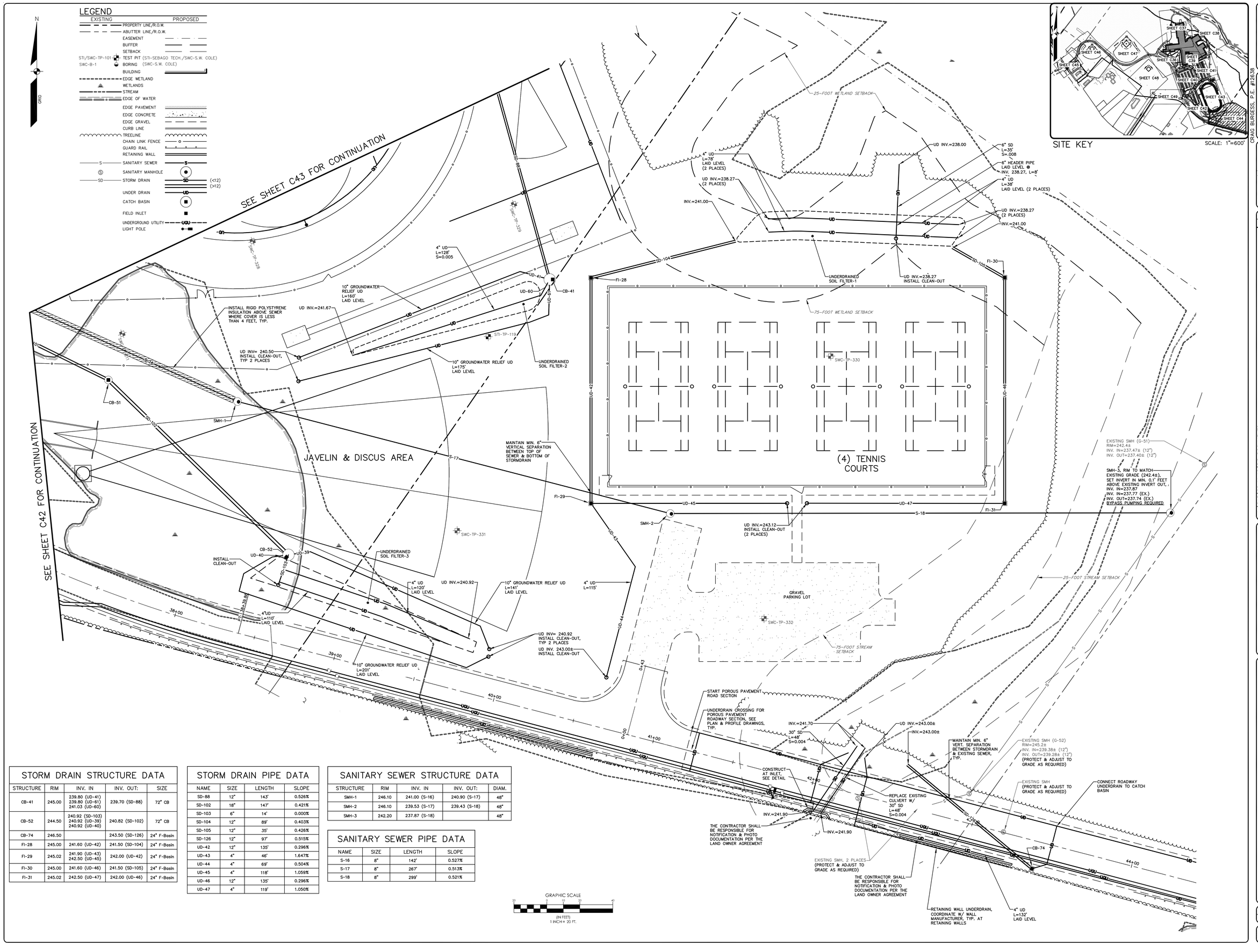
OF: SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR: SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc430Fc75

12233U.dwg, TAB:U-SHT 43



STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-41	245.00	239.80 (UD-41) 239.80 (UD-61) 241.03 (UD-60)	239.70 (SD-88)	72" CB
CB-52	244.50	240.92 (SD-103) 240.92 (UD-39) 240.92 (UD-40)	240.82 (SD-102)	72" CB
CB-74	246.50		243.50 (SD-126)	24" F-Basin
FI-28	245.00	241.60 (UD-42)	241.50 (SD-104)	24" F-Basin
FI-29	245.02	241.90 (UD-43) 242.50 (UD-45)	242.00 (UD-42)	24" F-Basin
FI-30	245.00	241.60 (UD-46)	241.50 (SD-105)	24" F-Basin
FI-31	245.02	242.50 (UD-47)	242.00 (UD-46)	24" F-Basin

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-88	12"	143'	0.526%
SD-102	18"	147'	0.421%
SD-103	6"	14'	0.000%
SD-104	12"	89'	0.403%
SD-105	12"	35'	0.426%
SD-126	12"	97'	0.515%
UD-42	12"	135'	0.296%
UD-43	4"	46'	1.647%
UD-44	4"	69'	0.504%
UD-45	4"	118'	1.059%
UD-46	12"	135'	0.296%
UD-47	4"	119'	1.050%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-1	246.10	241.00 (S-16)	240.90 (S-17)	48"
SMH-2	246.10	239.53 (S-17)	239.43 (S-18)	48"
SMH-3	242.20	237.87 (S-18)		48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-16	8"	142'	0.527%
S-17	8"	267'	0.513%
S-18	8"	299'	0.521%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite 4
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250 Gladiolus Rd.
Suite 1
Lewiston, ME 04240
Tel. 207-783-5836

UTILITY PLAN

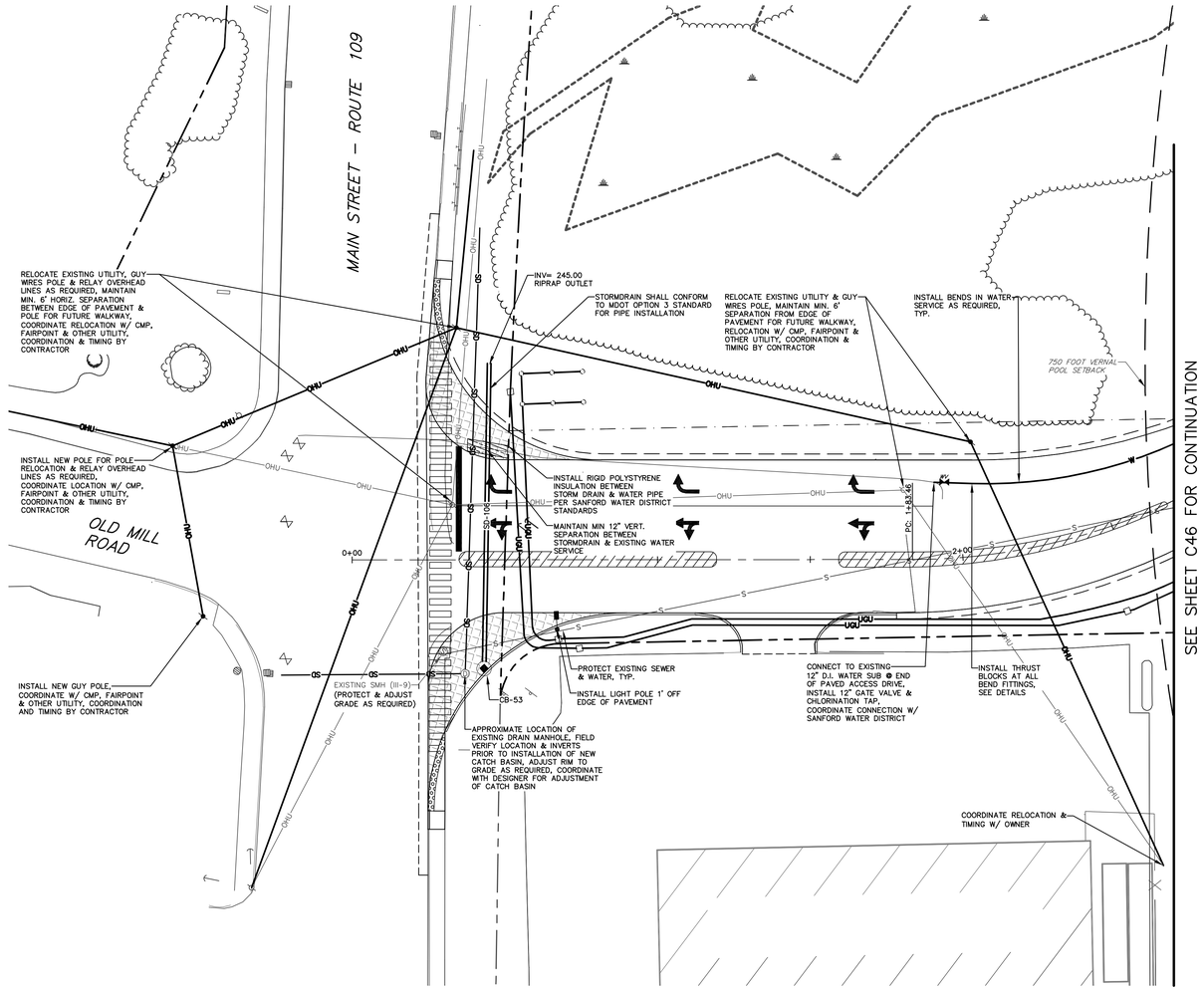
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

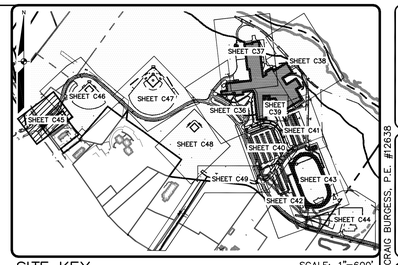
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETc440Fc75

12233\dwg, TAB:U-SHT 44





SITE KEY

SCALE: 1"=600'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	EASEMENT	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	BUILDING	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	SIGN	
	WATER GATE VALVE	
	HYDRANT	
W	WATER	W
	STORM DRAIN	SD (<12) (>12)
	CATCH BASIN	
	OVERHEAD UTILITY	OHU
	UTILITY POLE	
	GUY WIRE	
S	SANITARY SEWER	
	GAS	G

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-53	249.20		245.50 (SD-106)	48" CB

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-106	12"	98'	0.511%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

PRIMARY ACCESS UTILITY PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

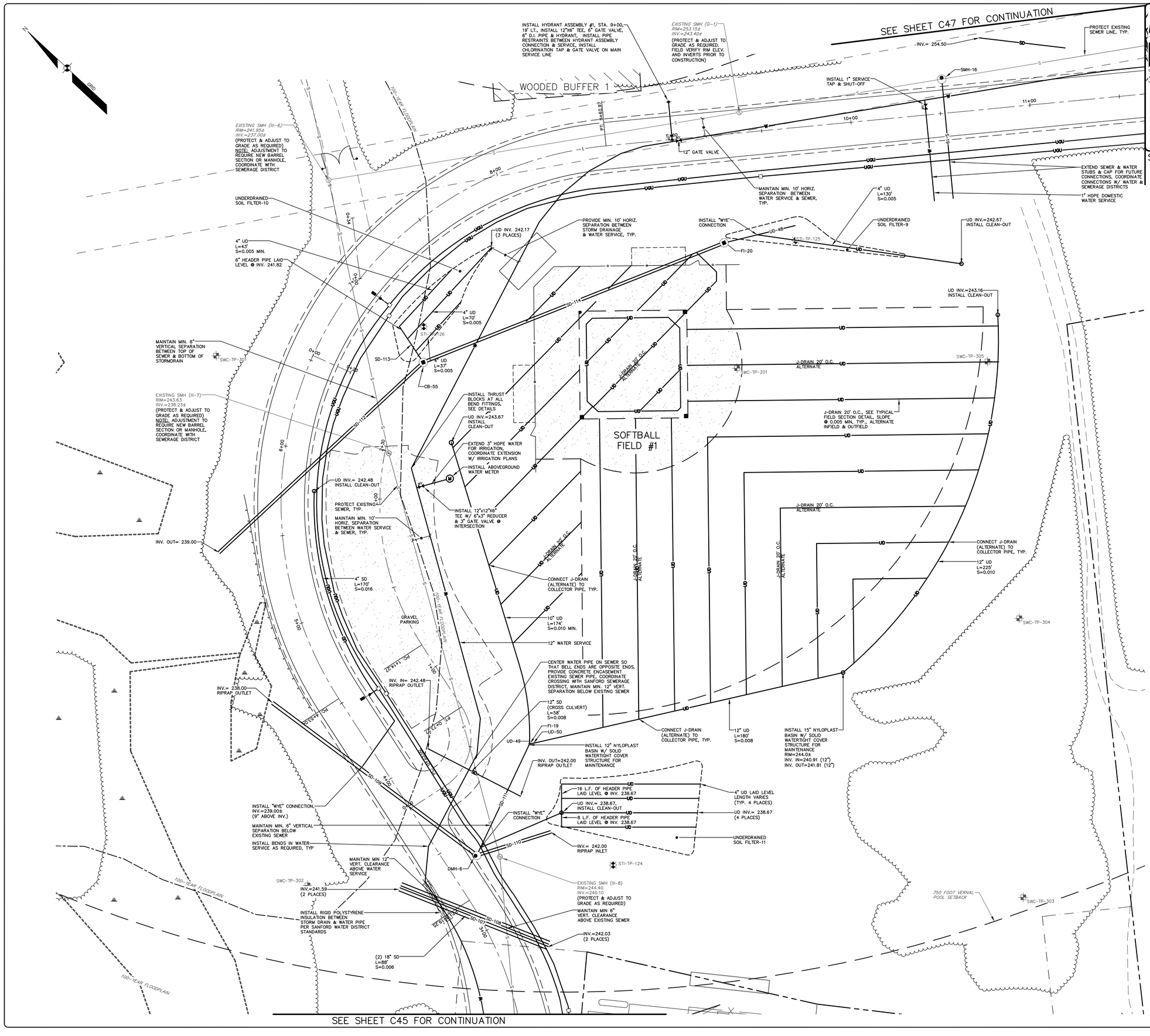
FOR:

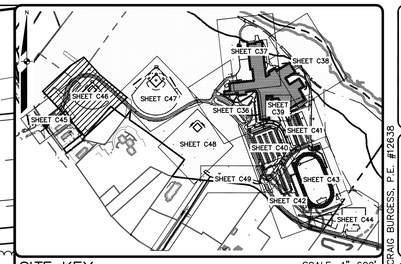
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEETC450FC75

12233U.dwg, TAB:U-SHT 45





SITE KEY SCALE: 1"=600'

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-55	246.00	240.30 (SD-114) 241.82 (SD-113)	240.20 (SD-112)	48" CB
DMH-6	244.50	241.75 (SD-110) 238.67 (SD-111)	238.57 (SD-109)	48" DMH W/ SLAB TOP
FI-20	246.00	242.00 (UD-48)	241.20 (SD-114)	24" F-Basin

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-107	18"	88'	0.510%
SD-108	18"	88'	0.510%
SD-109	18"	140'	0.408%
SD-110	15"	41'	0.609%
SD-111	12"	66'	0.501%
SD-112	15"	153'	0.782%
SD-113	6"	22'	0.000%
SD-114	15"	177'	0.508%
UD-48	4"	40'	0.504%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-16	256.20	244.34 (S-19)		48"

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-19	6"	65'	0.990%

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	EASEMENT	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	FLOODPLAIN	
	EASEMENT	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	BOLLARD	
	WATER	W
	WATER GATE VALVE	
	HYDRANT	
	POTABLE WELL	W
	GAS	G
S	SANITARY SEWER	S
S	SANITARY MANHOLE	
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	DRAINAGE MANHOLE	
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12538

STATE OF MAINE
CRAIG A. BURGESS
No. 12538
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel: 207-783-3598

UTILITY PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

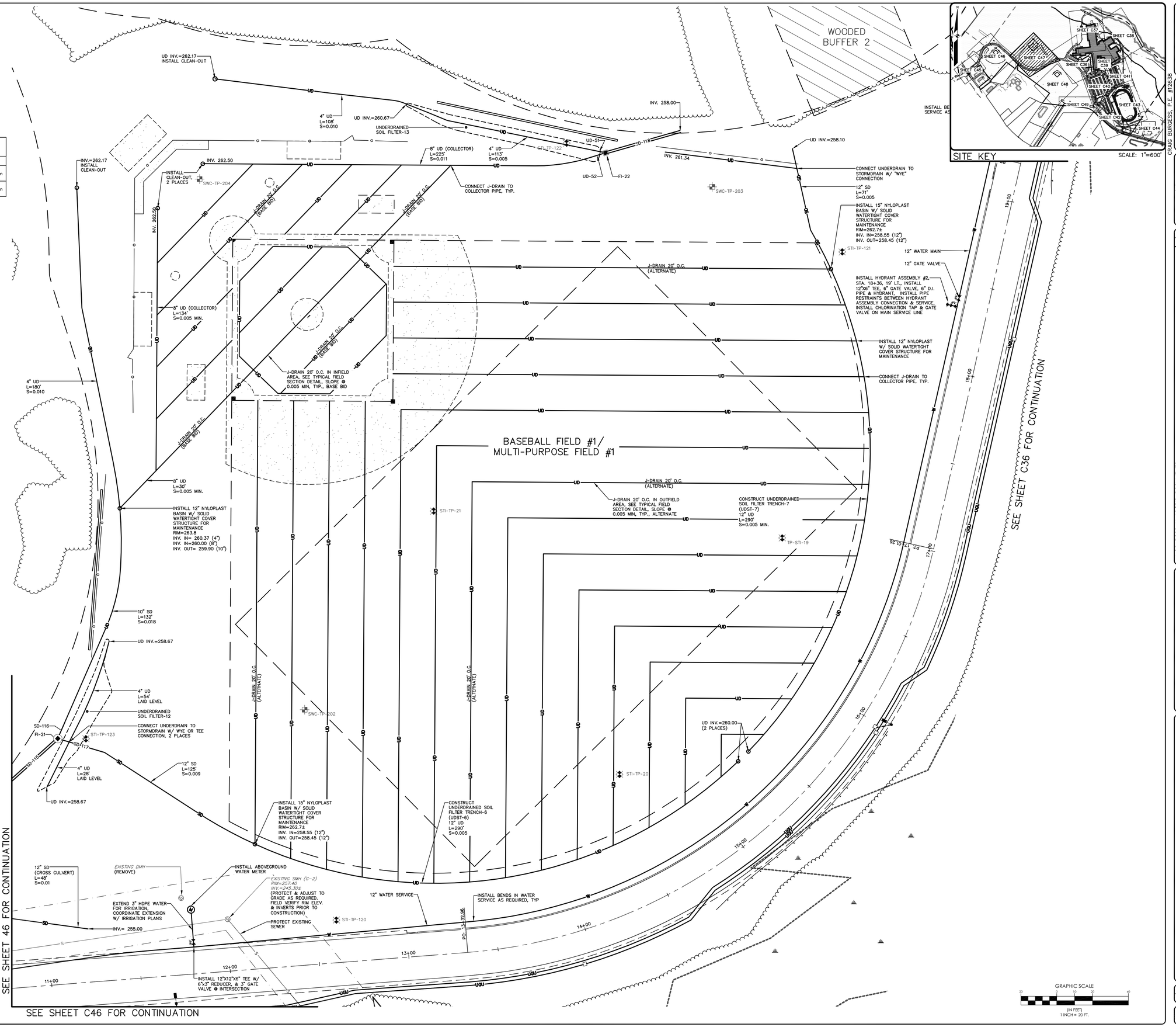
PROJECT NO.	SCALE
12233	1" = 20'

SHEET C46 OF C75

12233U.dwg, TAB:U-SHT 46

STORM DRAIN STRUCTURE DATA				
STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
FI-21	262.00	257.30 (SD-117) 257.50 (SD-116)	257.20 (SD-115)	24" F-Basin
FI-22	264.25	260.22 (UD-51) 260.00 (UD-52)	259.90 (SD-118)	24" F-Basin

STORM DRAIN PIPE DATA			
NAME	SIZE	LENGTH	SLOPE
SD-115	12"	37'	0.542%
SD-118	12"	42'	4.487%



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	EASEMENT	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	RETAINING WALL	
	WATER	W
	WATER GATE VALVE	
	HYDRANT	
	POTABLE WELL	
	GAS	G
S	SANITARY SEWER	S
	SANITARY MANHOLE	
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	DRAINAGE MANHOLE	
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	

CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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75 John Roberts Rd. Suite B, South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Suite 1, Lewiston, ME 04240 Tel: 207-783-5858

UTILITY PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

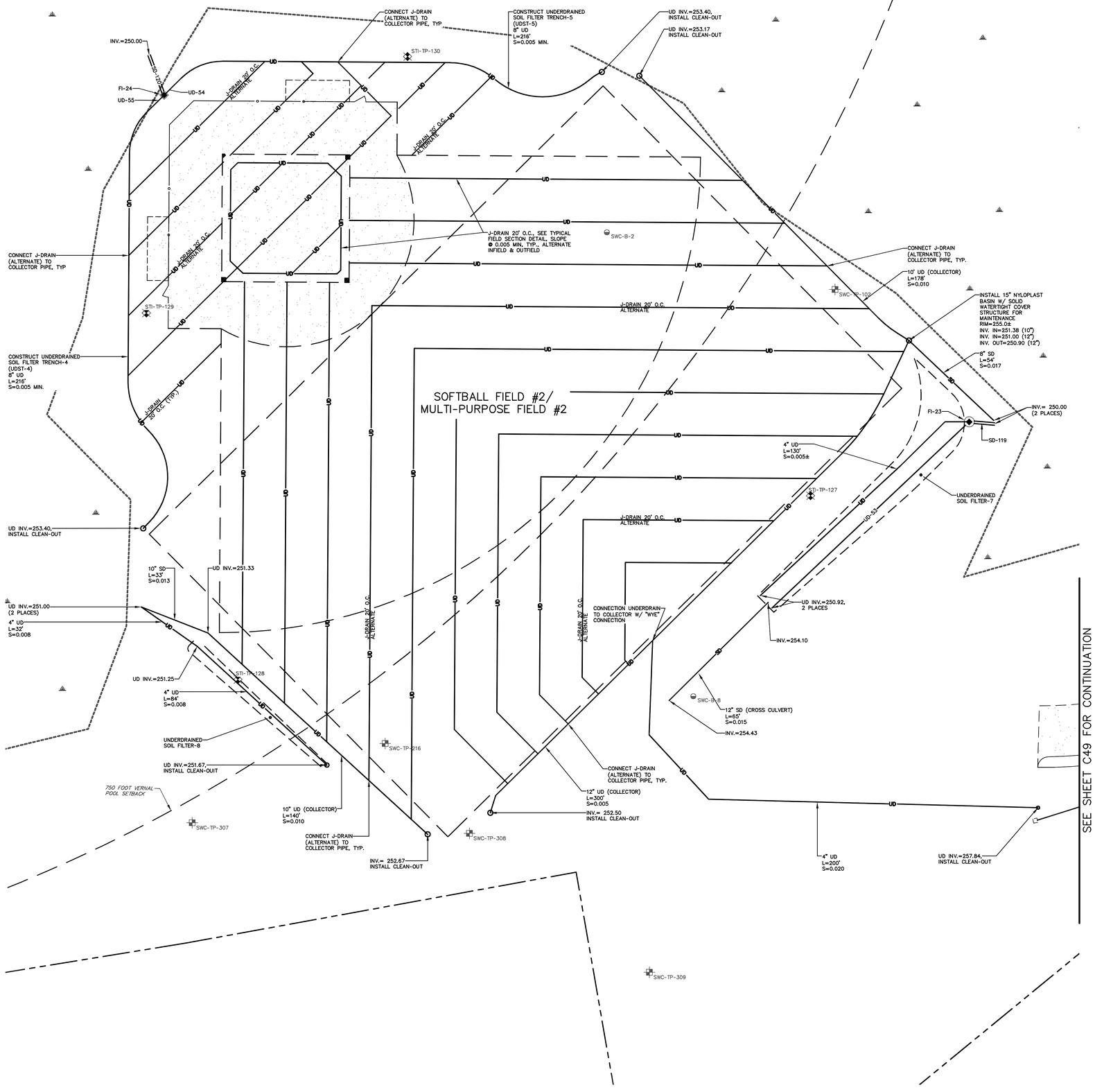
FOR:

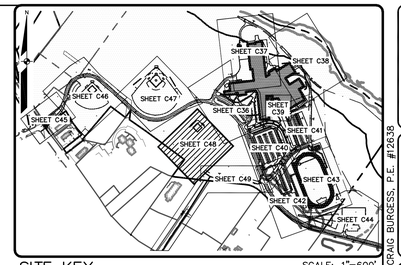
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C47 OF C75

12233U.dwg, TAB:U-SHT 47





SITE KEY

SCALE: 1"=600'

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
FI-23	254.50	250.30 (UD-53)	250.20 (SD-119)	24" F-Basin
FI-24	256.00	252.32 (UD-55) 252.32 (UD-54)	252.22 (SD-120)	24" F-BASIN

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-119	12"	10'	1.911%
SD-120	12"	19'	11.769%
UD-53	4"	127'	0.490%

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	BUFFER	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	RETAINING WALL	
	UNDER DRAIN	UD
	CATCH BASIN	
	UNDERGROUND UTILITY	UGU

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite A
South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Suite B
Lewiston, ME 04240 Tel: 207-783-3836

UTILITY PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

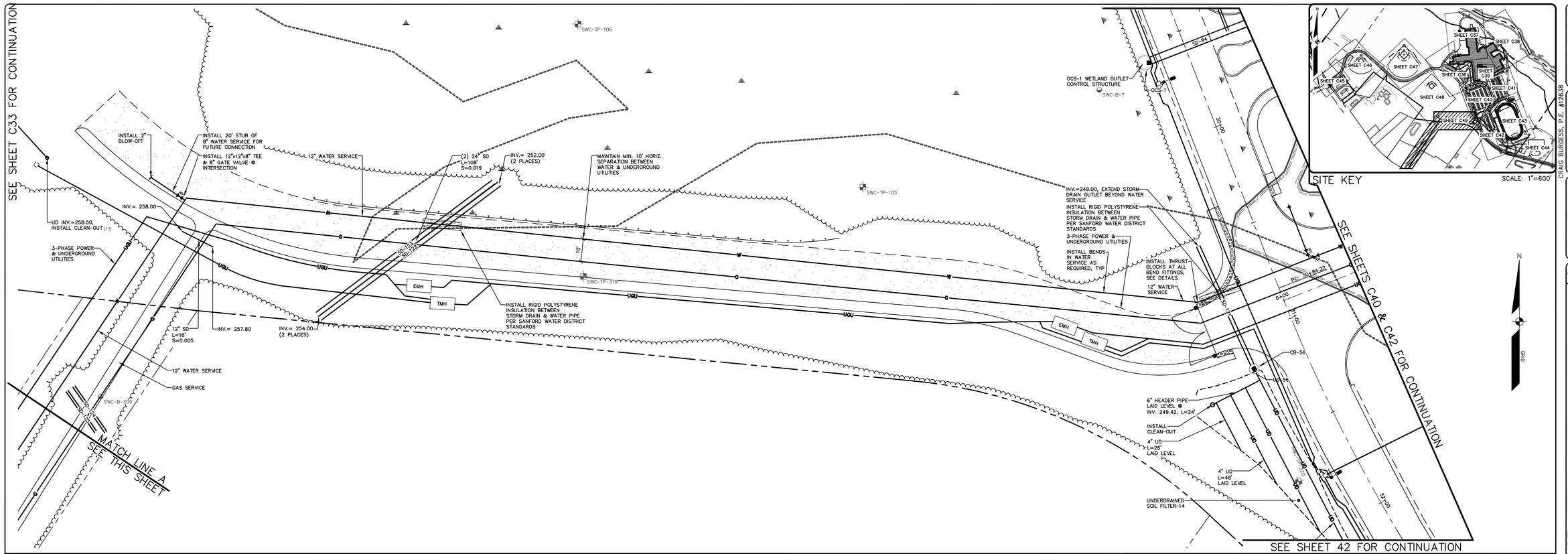
FOR:

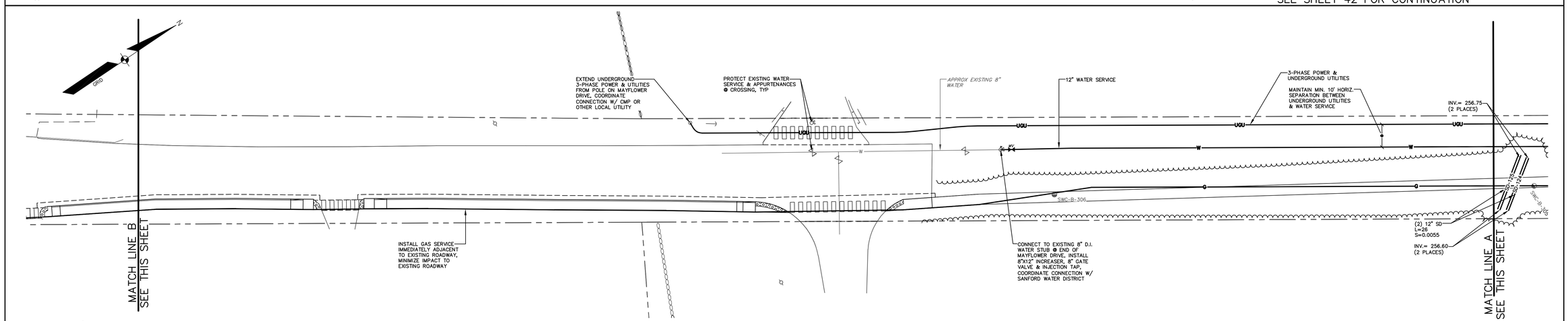
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

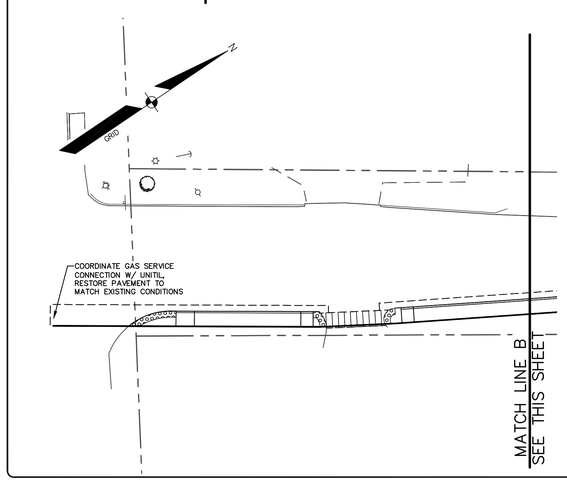
PROJECT NO.	SCALE
12233	1" = 20'

SHEETC480FC75

12233U.dwg, TAB:U-SHT 48







LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
STI/SWC-TP-101	TEST PIT (STI-SEBAGO TECH./SWC-S.W. COLE)	
SWC-B-1	BORING (SWC-S.W. COLE)	
	EDGE WETLAND	
	WETLANDS	
	EDGE OF WATER	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
	CHAIN LINK FENCE	
	GUARD RAIL	
	STONE WALL	
	RETAINING WALL	
	DECIDUOUS TREE	
	BOLLARD	
	SIGN	
	GAS	G
W	WATER	W
	WATER GATE VALVE	
	HYDRANT	
	POTABLE WELL	
	STORM DRAIN	SD (<12) (>12)
	UNDER DRAIN	UD
	CATCH BASIN	
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	UTILITY POLE	

GRAPHIC SCALE

(IN FEET)
1 INCH = 20 FT.

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-56	252.75	249.42 (UD-56)	249.40 (SD-121)	48" CB
OCS-1	249.70		244.00 (SD-84)	72" CB

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-84	36"	68'	1.324%
SD-121	18"	63'	0.631%
SD-122	24"	109'	1.836%
SD-123	24"	107'	-3.744%
SD-124	12"	27'	0.559%
SD-125	12"	28'	0.533%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV'I BY:	DATE:	STATUS:
J	CAB 02-11-16	BID DOCUMENTS
I	CAB 12-18-15	CONSTRUCTION INSTRUCTION DOCUMENTS
H	CAB 11-25-15	RESUBMITTED TO DEP
G	CAB 11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB 11-12-15	ISSUED FOR 85%
E	CAB 10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB 10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

INTERSECTION & OFFSITE IMPROVEMENTS PLAN

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 20'

SHEET C49 OF C75

12233U.dwg, TAB:U-SHT 49

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-1	248.70	243.82 (SD-2) 246.37 (UD-2)	243.72 (SD-1) 247.67 (UD-1)	72" CB
CB-2	251.60	245.65 (SD-3) 244.25 (SD-4)	244.15 (SD-2)	72" CB
CB-3	253.10		248.10 (SD-3)	48" CB
CB-4	251.20		246.80 (SD-5)	48" CB
CB-5	251.20	244.76 (SD-8) 246.67 (SD-6)	244.66 (SD-4)	72" CB
CB-6	251.20	245.78 (SD-9) 245.13 (SD-17)	245.03 (SD-8)	72" CB
CB-7	251.40	246.84 (SD-10)	246.74 (SD-9)	48" CB
CB-8	251.27	245.83 (SD-18)	245.73 (SD-17)	48" CB
CB-9	252.00	246.29 (SD-20) 249.00 (SD-19)	246.19 (SD-18)	48" CB
CB-10	250.20	246.53 (SD-21)	246.43 (SD-20)	48" CB
CB-11	250.20	246.80 (SD-22)	246.70 (SD-21)	48" CB
CB-12	252.30	247.67 (SD-23)	247.00 (SD-22)	72" CB (DOUBLE GRATE)
CB-13	252.50	247.08 (SD-31)	246.98 (SD-30)	48" CB
CB-14	252.50		247.50 (SD-31)	48" CB
CB-15	252.80	247.80 (SD-29)	247.30 (SD-28)	48" CB
CB-16	240.25	236.64 (SD-42) 237.64 (SD-39) 235.74 (SD-40)	235.64 (SD-38)	72" CB (DOUBLE GRATE)
CB-17	240.50	236.00 (SD-41)	235.90 (SD-40)	48" CB
CB-18	240.50		236.50 (SD-41)	48" CB
CB-19	242.00	237.28 (SD-43)	237.18 (SD-42)	48" CB
CB-20	245.60	240.20 (SD-45)	240.10 (SD-44)	CB-ST-48

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-21	245.60	240.82 (SD-50) 240.42 (SD-46)	240.32 (SD-45)	72" CB
CB-22	247.30	242.05 (SD-51)	241.80 (SD-50)	48" CB
CB-23	247.90		243.00 (SD-52)	48" CB
CB-24	248.60	243.60 (SD-53)	243.50 (SD-51)	48" CB
CB-25	250.90	245.90 (SD-54)	245.80 (SD-53)	48" CB
CB-26	251.40		246.40 (SD-54)	48" CB
CB-27	246.60	238.00 (SD-57) 238.65 (SD-130) 243.70 (UD-32) 243.20 (UD-30)	237.90 (SD-56)	72" CB (DOUBLE GRATE)
CB-28	245.50	240.90 (SD-59) 241.97 (SD-128)	240.80 (SD-58)	48" CB
CB-29	251.40	247.10 (SD-63A)	247.00 (SD-63)	48" CB
CB-30	251.60	246.33 (SD-64) 246.33 (SD-66)	246.23 (SD-62)	72" CB
CB-31	252.50	247.35 (SD-70) 247.35 (SD-67)	247.25 (SD-66)	48" CB
CB-32	250.84	248.30 (SD-72) 248.30 (SD-71)	248.20 (SD-70)	48" CB
CB-33	253.40	249.10 (SD-74) 249.10 (SD-75)	248.93 (SD-73)	24" F-Basin
CB-34	250.20	247.00 (SD-65)	246.90 (SD-64)	48" CB
CB-35	250.20		247.20 (SD-65)	48" CB
CB-36	248.00	243.37 (SD-127)	243.27 (SD-130)	48" CB
CB-37	248.00		243.57 (SD-127)	48" CB
CB-38	248.90	245.80 (SD-79)	242.00 (SD-78)	72" CB (DOUBLE GRATE)
CB-39	251.00	247.57 (SD-83)	245.50 (SD-82)	72" CB (DOUBLE GRATE)
CB-40	245.10	237.82 (SD-89) 238.95 (SD-88)	237.72 (SD-87)	72" CB

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
CB-41	245.00	239.80 (UD-41) 239.80 (UD-61) 241.03 (UD-60)	239.70 (SD-88)	72" CB
CB-42	245.40	238.05 (SD-90) 238.14 (UD-57) -3.70 (UD-58)	237.95 (SD-89)	72" CB
CB-43	245.40	238.74 (SD-91) 239.90 (UD-59)	238.64 (SD-90)	72" CB
CB-44	245.60	239.50 (SD-92) 239.11 (SD-99)	239.01 (SD-91)	72" CB
CB-45	245.00	239.85 (SD-93)	239.75 (SD-92)	48" CB
CB-46	244.50	240.30 (SD-96) 240.30 (SD-94)	240.20 (SD-93)	72" CB
CB-47	244.50	241.24 (UD-35) 240.80 (SD-97)	240.70 (SD-96)	48" CB
CB-48	246.10	242.00 (SD-98)	241.00 (SD-97)	72" CB (DOUBLE GRATE)
CB-49	244.90	240.94 (SD-95) 240.69 (UD-38)	240.59 (SD-94)	72" CB (DOUBLE GRATE)
CB-50	244.20	240.67 (SD-100) 239.52 (SD-101) 239.52 (UD-36) 239.52 (UD-37)	239.42 (SD-99)	72" CB (DOUBLE GRATE)
CB-51	243.70	240.20 (SD-102)	240.10 (SD-101)	48" CB
CB-52	244.50	240.92 (SD-103) 240.92 (UD-39) 240.92 (UD-40)	240.82 (SD-102)	72" CB
CB-53	249.20		245.50 (SD-106)	48" CB
CB-54	240.00		237.50 (SD-33)	48" CB
CB-55	246.00	240.30 (SD-114) 241.82 (SD-113)	240.20 (SD-112)	48" CB
CB-56	252.75	249.42 (UD-56)	249.40 (SD-121)	48" CB
CB-74	246.50		243.50 (SD-126)	24" F-Basin
DMH-1	249.30	240.00 (SD-81)	239.90 (SD-77)	72" DMH
DMH-2	252.70	244.00 (SD-82) 243.10 (SD-84)	243.00 (SD-81)	72" DMH
DMH-3	245.50	237.55 (SD-56) 237.33 (SD-77)	237.23 (SD-55)	72" DMH

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
DMH-4	251.80	245.18 (SD-60)	245.08 (SD-59)	48" DMH
DMH-5	252.60	243.90 (SD-28) 243.90 (SD-27)	243.80 (SD-26)	72" DMH
DMH-6	244.50	241.75 (SD-110) 238.67 (SD-111)	238.57 (SD-109)	48" DMH W/ SLAB TOP
DMH-7	252.50	245.50 (SD-62) 247.30 (SD-61)	246.30 (SD-60)	72" DMH
DMH-8	126.23	248.60 (SD-76) 248.60 (SD-73)	248.50 (SD-72)	48" DMH
FI-1	252.20	247.12 (SD-7)	246.93 (SD-6)	15" NYLOPLAST
FI-2	252.20		247.03 (SD-7)	12" NYLOPLAST
FI-3	251.57	247.36 (SD-14) 247.36 (SD-13) 247.36 (SD-11)	247.26 (SD-10)	24" F-Basin
FI-4	251.75	247.64 (SD-12)	247.54 (SD-11)	15" NYLOPLAST
FI-5	251.75		247.74 (SD-12)	15" NYLOPLAST
FI-6	251.57	247.58 (SD-15)	247.48 (SD-14)	15" NYLOPLAST
FI-7	251.63	247.79 (SD-16)	247.69 (SD-15)	15" NYLOPLAST
FI-8	251.79		247.88 (SD-16)	15" NYLOPLAST
FI-9	252.50	248.10 (SD-68) 248.10 (SD-69)	248.00 (SD-67)	24" F-Basin
FI-10	253.50		248.90 (SD-69)	12" NYLOPLAST
FI-11	252.00		248.60 (SD-68)	12" NYLOPLAST
FI-12	253.50		249.50 (SD-74)	12" NYLOPLAST
FI-13	253.50		249.50 (SD-75)	12" NYLOPLAST
FI-14	245.00	240.88 (SD-47)	240.78 (SD-46)	15" NYLOPLAST
FI-15	245.00	241.24 (SD-48)	241.14 (SD-47)	15" NYLOPLAST

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	SIZE
FI-16	245.00	241.82 (SD-49)	241.72 (SD-48)	15" NYLOPLAST
FI-17	245.00		242.27 (SD-49)	15" NYLOPLAST
FI-18	245.04	243.25 (UD-34)	243.15 (SD-86)	12" NYLOPLAST
FI-19	244.50	239.34 (UD-50) 242.00 (UD-49)	239.00 (SD-111)	15" NYLOPLAST
FI-20	246.00	242.00 (UD-48)	241.20 (SD-114)	24" F-Basin
FI-21	262.00	257.30 (SD-117) 257.50 (SD-116)	257.20 (SD-115)	24" F-Basin
FI-22	264.25	260.22 (UD-51) 260.00 (UD-52)	259.90 (SD-118)	24" F-Basin
FI-23	254.50	250.30 (UD-53)	250.20 (SD-119)	24" F-Basin
FI-24	256.00	252.32 (UD-55) 252.32 (UD-54)	252.22 (SD-120)	24" F-BASIN
FI-25	247.30	245.15 (UD-12)	242.50 (SD-39)	12" NYLOPLAST
FI-26	249.83		247.63 (SD-13)	15" NYLOPLAST
FI-27	251.00		247.30 (SD-63A)	24" F-Basin
FI-28	245.00	241.60 (UD-42)	241.50 (SD-104)	24" F-Basin
FI-29	245.02	241.90 (UD-43) 242.50 (UD-45)	242.00 (UD-42)	24" F-Basin
FI-30	245.00	241.60 (UD-46)	241.50 (SD-105)	24" F-Basin
FI-31	245.02	242.50 (UD-47)	242.00 (UD-46)	24" F-Basin
OCS-1	249.70		244.00 (SD-84)	72" CB
OCS-2	250.40	240.35 (SD-58) 243.60 (SD-129)	240.25 (SD-57)	72" OCS

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-1	246.10	241.00 (S-16)	240.90 (S-17)	48"
SMH-2	246.10	239.53 (S-17)	239.43 (S-18)	48"
SMH-3	242.20	237.87 (S-18)		48"
SMH-4	248.84	246.40 (S-7) 246.40 (S-14)	246.30 (S-8)	48"
SMH-5 (DOGHOUSE)	243.10	234.43 (S-4)		48"
SMH-6 (DROP MANHOLE)	253.20	242.19 (S-3) 242.19 (S-6)	238.00 (S-4)	48"
SMH-7	253.30	244.04 (S-2)	243.94 (S-3)	48"
SMH-8	253.40	246.16 (S-1) 246.72 (S-5)	246.06 (S-2)	48"
SMH-9	252.30	245.00 (S-8)	244.90 (S-9)	48"
SMH-10	249.30	241.60 (S-9)	241.50 (S-10)	48"
SMH-11	247.10	240.53 (S-10)	240.43 (S-11)	48"
SMH-12	244.10	239.33 (S-11)	239.23 (S-12)	48"
SMH-13 (DOGHOUSE)	237.00	234.28 (S-12)		48"
SMH-14 (DOGHOUSE)	241.42	234.29 (S-15)		48"
SMH-16	256.20	244.34 (S-19)		48"

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-19	6"	65'	0.990%
SD-1	30"	145'	0.325%
SD-2	30"	104'	0.317%
SD-3	12"	122'	2.013%
SD-4	24"	133'	0.309%
SD-6	15"	51'	0.507%
SD-7	10"	17'	0.500%
SD-8	24"	62'	0.437%
SD-9	15"	86'	1.113%
SD-10	15"	81'	0.515%
SD-11	12"	36'	0.505%
SD-12	12"	19'	0.500%
SD-13	12"	53'	0.507%
SD-14	12"	23'	0.506%
SD-15	12"	21'	0.503%
SD-16	12"	18'	0.495%
SD-17	24"	145'	0.414%
SD-18	18"	86'	0.419%
SD-19	4"	16'	3.121%
SD-20	18"	29'	0.478%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-21	18"	39'	0.436%
SD-22	15"	21'	0.969%
SD-23	6"	17'	0.000%
SD-24	36"	64'	0.375%
SD-25	36"	67'	0.375%
SD-26	18"	56'	3.187%
SD-27	12"	67'	7.561%
SD-28	18"	74'	4.567%
SD-29	12"	52'	2.296%
SD-30	15"	60'	3.295%
SD-31	12"	80'	0.525%
SD-32	24"	69'	0.494%
SD-33	18"	59'	0.374%
SD-34	12"	102'	7.809%
SD-35	6"	45'	1.795%
SD-36	4"	63'	2.839%
SD-37	12"	26'	1.151%
SD-38	24"	61'	0.558%
SD-39	10"	51'	9.561%
SD-40	24"	35'	0.451%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-41	24"	124'	0.404%
SD-42	12"	103'	0.523%
SD-43	12"	151'	3.727%
SD-44	24"	23'	0.441%
SD-45	24"	25'	0.476%
SD-46	12"	87'	0.416%
SD-47	12"	64'	0.404%
SD-48	12"	119'	0.403%
SD-49	12"	110'	0.409%
SD-50	18"	101'	0.974%
SD-51	15"	128'	1.136%
SD-52	12"	25'	1.005%
SD-53	12"	200'	1.102%
SD-54	12"	48'	1.041%
SD-55	36"	237'	0.308%
SD-56	30"	63'	0.551%
SD-57	30"	176'	1.281%
SD-58	24"	55'	0.818%
SD-59	18"	127'	3.280%
SD-60	18"	29'	3.869%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-61	15"	99'	1.010%
SD-62	24"	176'	0.415%
SD-63	12"	40'	1.989%
SD-63A	10"	14'	1.427%
SD-64	15"	138'	0.413%
SD-65	12"	39'	0.513%
SD-66	24"	82'	1.116%
SD-67	12"	53'	1.226%
SD-68	10"	48'	1.052%
SD-69	10"	81'	0.985%
SD-70	24"	46'	1.864%
SD-71	10"	69'	1.012%
SD-72	12"	37'	0.548%
SD-73	10"	65'	0.509%
SD-74	10"	28'	1.451%
SD-75	10"	31'	1.274%
SD-76	10"	20'	2.016%
SD-77	36"	136'	1.890%
SD-78	18"	42'	2.590%
SD-79	6"	5'	0.600%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-80	6"	10'	1.400%
SD-81	36"	230'	1.304%
SD-82	18"	99'	1.508%
SD-83	6"	15'	0.667%
SD-84	36"	68'	1.324%
SD-85	12"	47'	3.303%
SD-86	10"	29'	0.508%
SD-87	36"	164'	0.317%
SD-88	12"	143'	0.526%
SD-89	36"	37'	0.347%
SD-90	36"	190'	0.310%
SD-91	30"	65'	0.413%
SD-92	18"	34'	0.739%
SD-93	18"	82'	0.428%
SD-94	15"	59'	0.491%
SD-95	10"	17'	4.054%
SD-96	15"	95'	0.421%
SD-97	15"	39'	0.519%
SD-98	6"	15'	0.000%
SD-99	24"	71'	0.438%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-100	6"	31'	0.000%
SD-101	15"	141'	0.412%
SD-102	18"	147'	0.421%
SD-103	6"	14'	0.000%
SD-104	12"	89'	0.403%
SD-105	12"	35'	0.426%
SD-106	12"	98'	0.511%
SD-107	18"	88'	0.510%
SD-108	18"	88'	0.510%
SD-109	18"	140'	0.408%
SD-110	15"	41'	0.609%
SD-111	12"	66'	0.501%
SD-112	15"	153'	0.782%
SD-113	6"	22'	0.000%
SD-114	15"	177'	0.508%
SD-115	12"	37'	0.542%
SD-118	12"	42'	4.487%
SD-119	12"	10'	1.911%
SD-120	12"	19'	11.769%
SD-121	18"	63'	0.631%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SD-122	24"	109'	1.836%
SD-123	24"	107'	-3.744%
SD-124	12"	27'	0.559%
SD-125	12"	28'	0.533%
SD-126	12"	97'	0.515%
SD-127	12"	39'	0.513%
SD-128	6"	7'	0.000%
SD-129	24"	3'	6.667%
SD-130	15"	66'	6.983%
UD-1	4"	80'	1.632%
UD-2	4"	52'	2.477%
UD-3	4"	66'	2.004%
UD-4	4"	80'	2.000%
UD-5	4"	43'	1.996%
UD-6	4"	53'	2.002%
UD-7	4"	39'	0.994%
UD-8	6"	96'	1.293%
UD-9	6"	15'	1.933%
UD-10	6"	15'	1.200%
UD-11	6"	40'	0.395%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
UD-12	4"	10'	0.000%
UD-13	4"	65'	0.538%
UD-14	4"	79'	1.628%
UD-15	4"	101'	1.478%
UD-16	4"	79'	0.997%
UD-17	4"	101'	0.982%
UD-18	4"	200'	0.680%
UD-19	4"	89'	0.809%
UD-20	6"	15'	29.195%
UD-21	4"	14'	3.536%
UD-22	4"	253'	0.368%
UD-23	4"	263'	0.354%
UD-24	6"	35'	11.504%
UD-25	4"	243'	0.893%
UD-26	4"	14'	5.091%
UD-27	4"	233'	0.931%
UD-28	4"	251'	1.008%
UD-29	4"	251'	0.996%
UD-30	4"	8'	1.173%
UD-31	4"	265'	1.800%

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
UD-32	4"	8'	4.811%
UD-33	4"	262'	1.469%
UD-34	4"	50'	0.499%
UD-35	4"	54'	2.071%
UD-42	12"	135'	0.296%
UD-43	4"	46'	1.647%
UD-44	4"	69'	0.504%
UD-45	4"	118'	1.059%
UD-46	12"	135'	0.296%
UD-47	4"	119'	1.050%
UD-48	4"	40'	0.504%
UD-53	4"	127'	0.490%
UD-56	6"	4'	0.000%

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
S-1	8"	181'	1.015%
S-2	8"	198'	1.020%
S-3	8"	172'	1.018%
S-4	12"	77'	4.620%
S-5	6"	14'	9.183%
S-6	8"	299'	2.100%
S-7	6"	92'	2.817%
S-8	8"	113'	1.152%
S-9	8"	232'	1.425%
S-10	8"	82'	1.183%
S-11	8"	114'	0.969%
S-12	8"	78'	6.344%
S-13	4"	49'	12.445%
S-14	4"	57'	4.545%
S-15	6"	73'	1.659%
S-16	8"	142'	0.527%
S-17	8"	267'	0.513%
S-18	8"	299'	0.521%
S-19	6"	65'	0.990%

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

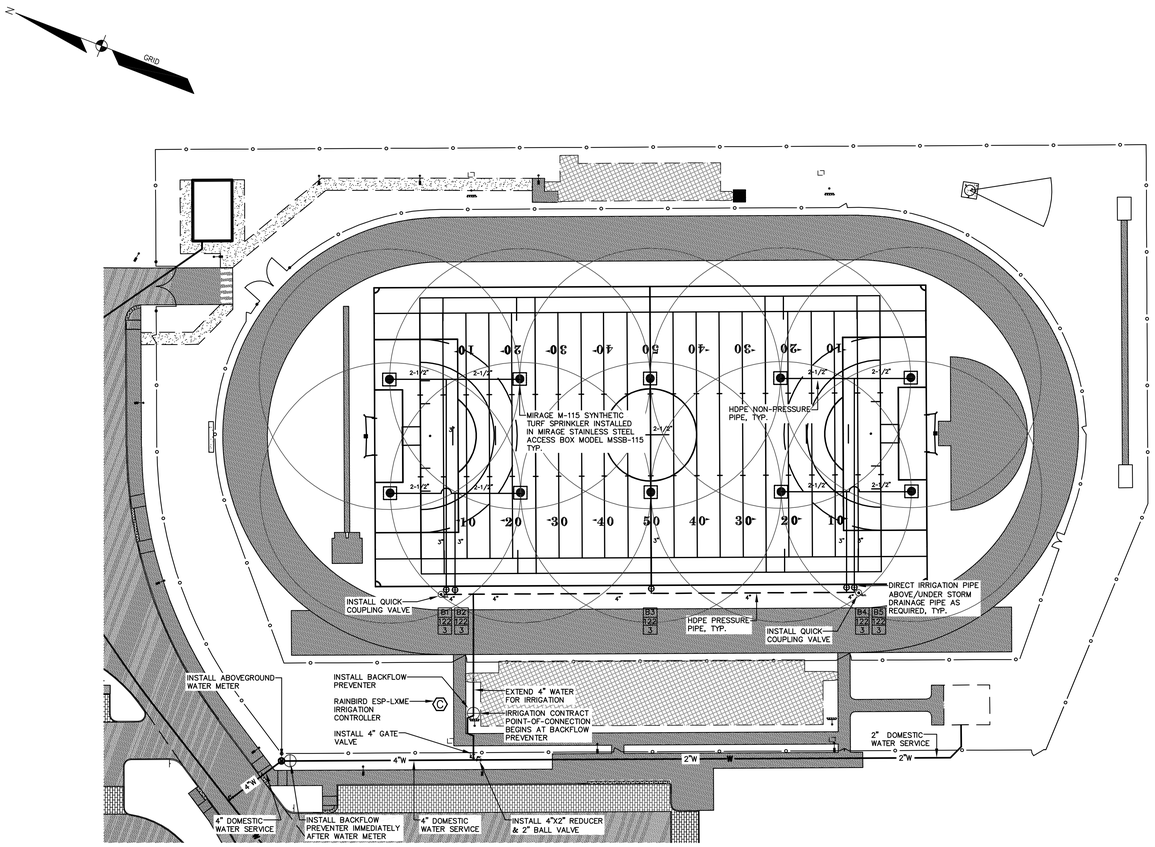
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite B
South Portland, ME 04106
Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

UTILITY STRUCTURE & PIPE TABLES
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

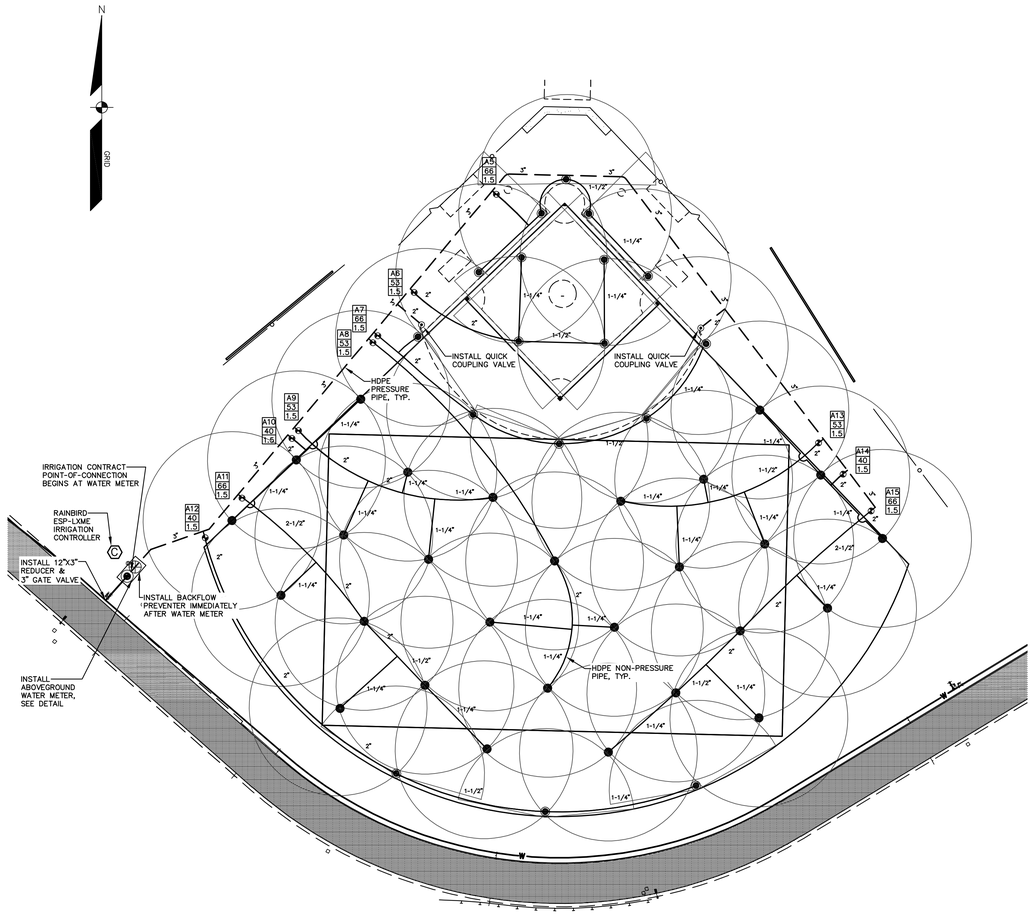
PROJECT NO.	SCALE
12233	NTS

SHEETC500FC75

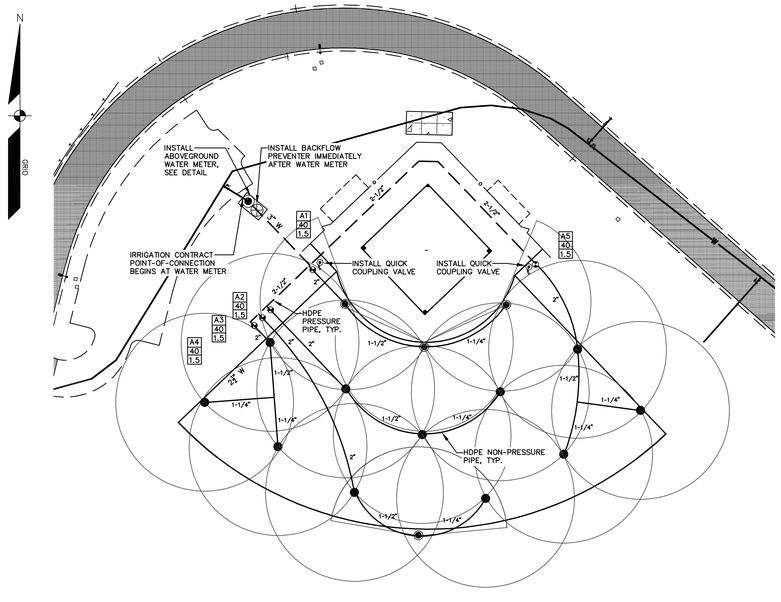
12233U.dwg, TAB:U-SHT 50



ARTIFICIAL TURF STADIUM
SCALE: 1" = 40'



JUNIOR VARSITY BASEBALL FIELD/
MULTIPURPOSE FIELD #1
SCALE: 1" = 40'



VARSITY SOFTBALL FIELD #1
SCALE: 1" = 40'

LEGEND

PROPOSED	DESCRIPTION
●	IRRIGATION NOZZLE
———	MAINLINE PIPE: 2 1/2" - 4" HDPE DR 13.5
- - - -	LATERAL PIPE: 2" - 1 1/4" HDPE DR 13.5
⊗	MAIN SHUT-OFF GATE VALVE
	PEB REMOTE CONTROL VALVE (SIZED AS SHOWN)
	QUICK COUPLING VALVE
A / 45 / 2	INDICATES CONTROLLER & CONTROLLER STATION NO. INDICATES LATERAL DISCHARGE IN GPM INDICATES REMOTE CONTROL VALVE SIZE
Ⓜ	WATER METER

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 INCH = 40 FT.

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV'L BY:	DATE:	STATUS:
J CAB	02-11-16	BID DOCUMENTS
I CAB	12-18-15	CONSTRUCTION DOCUMENTS
H CAB	11-25-15	RESUBMITTED TO DEP
G CAB	11-17-15	ADDRESS DEP COMMENTS & REISSUED
F CAB	11-12-15	ISSUED FOR 85%
E CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D CAB	10-20-15	ISSUED FOR 75%

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Tel: 207-783-3836

IRRIGATION PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

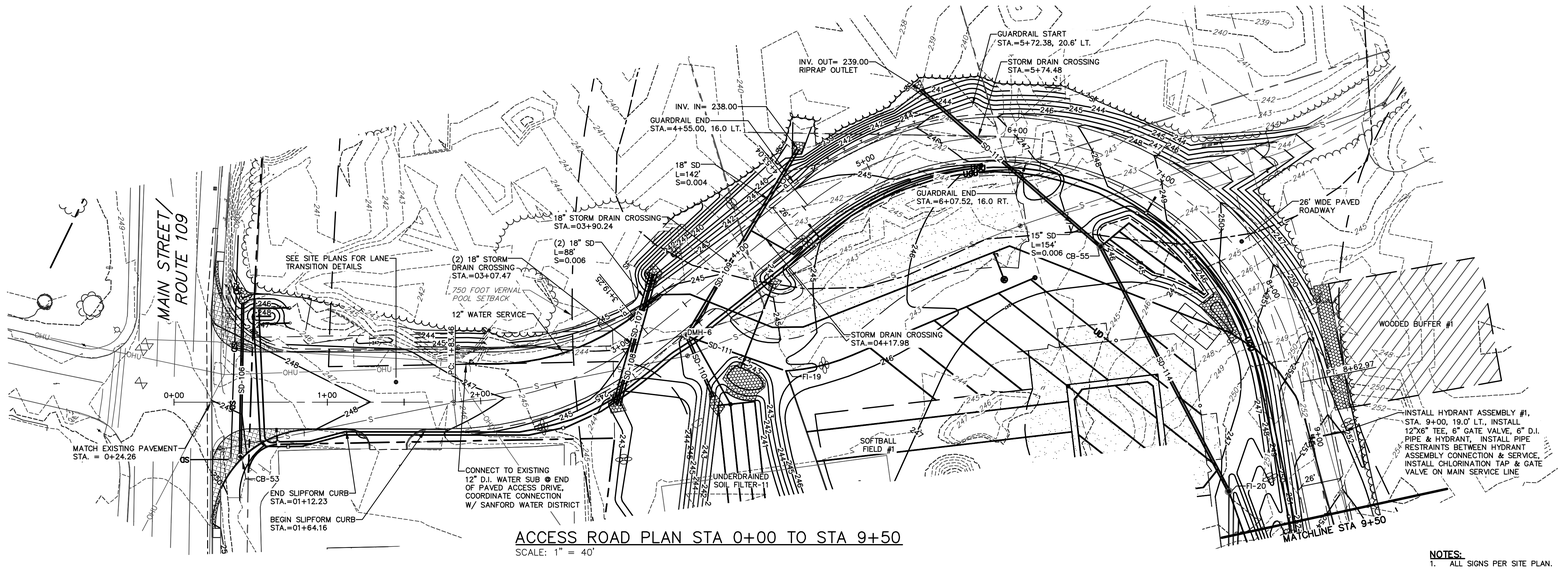
PROJECT NO.	SCALE
12233	1" = 20'

SHEET C5 10 OF C75

12233IRR.dwg, TAB:IRR-SHT 50

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE PAVEMENT	
	PAVEMENT SAWCUT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
120 118	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	DECIDUOUS TREE	
	BOLLARD	
	SIGN	
W	WATER	W
	WATER GATE VALVE	WGV
	HYDRANT	
S	SANITARY SEWER	
	SANITARY MANHOLE	
SD	STORM DRAIN	SD
	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
OHU	OVERHEAD UTILITY	OHU
UGU	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	UTILITY POLE	
	GUY WIRE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	

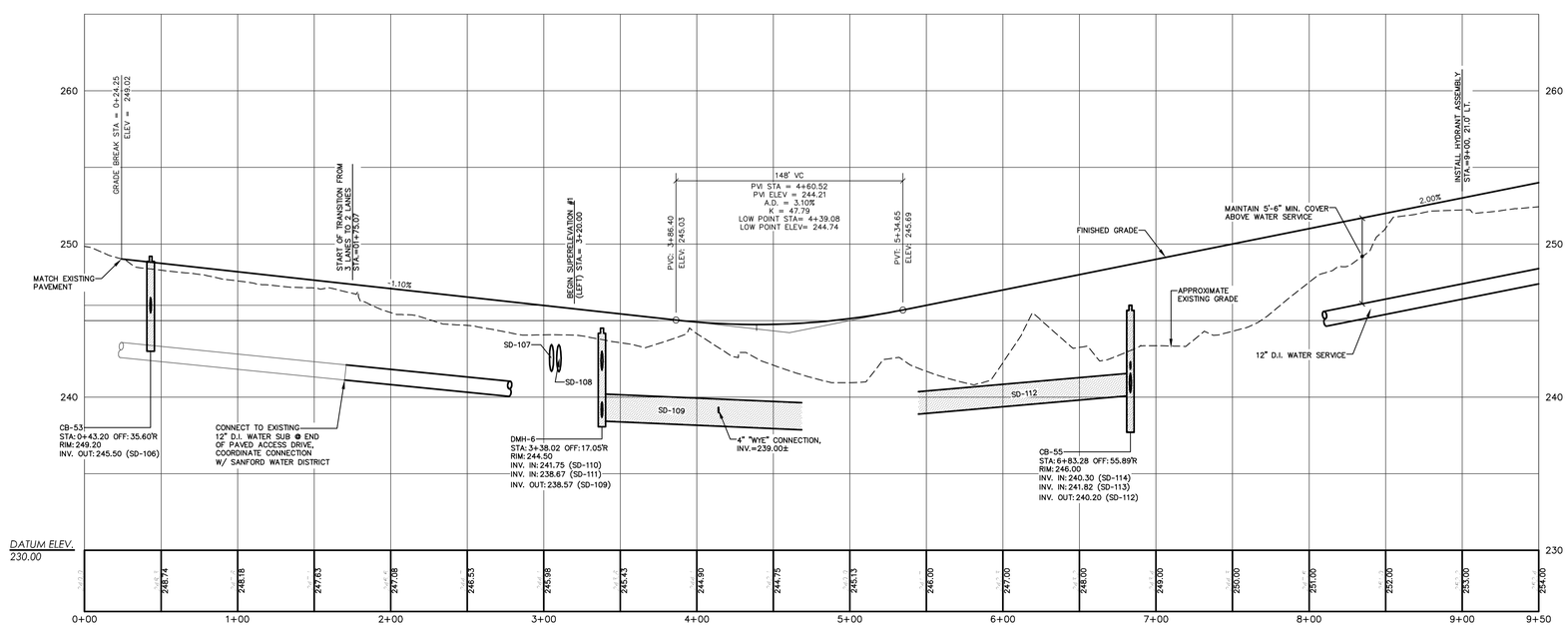


ACCESS ROAD PLAN STA 0+00 TO STA 9+50

SCALE: 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
3. SEE VEHICULAR GUARDRAIL DETAIL FOR GUARDRAIL START AND END TERMINAL TYPE.
4. DESIGN OF RETAINING WALLS TO BE COMPLETED BY BLOCK MANUFACTURER. SUBMIT FINAL DESIGN PLANS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN PLANS SHALL INCLUDE PROVISIONS FOR DRAINAGE FOR SOILS BEHIND WALL.
5. SEE SUPERELEVATED ACCESS DRIVE SECTION FOR SUPERELEVATION TRANSITION STATIONING.
6. SEE GRADING AND EROSION CONTROL PLANS FOR SPECIFIC EROSION CONTROLS ALONG ACCESS DRIVE. THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.



ACCESS ROAD PROFILE STA 0+00 TO STA 9+50

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	RESUBMITTED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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PLAN & PROFILE
OF:
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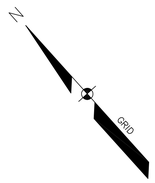
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 40'

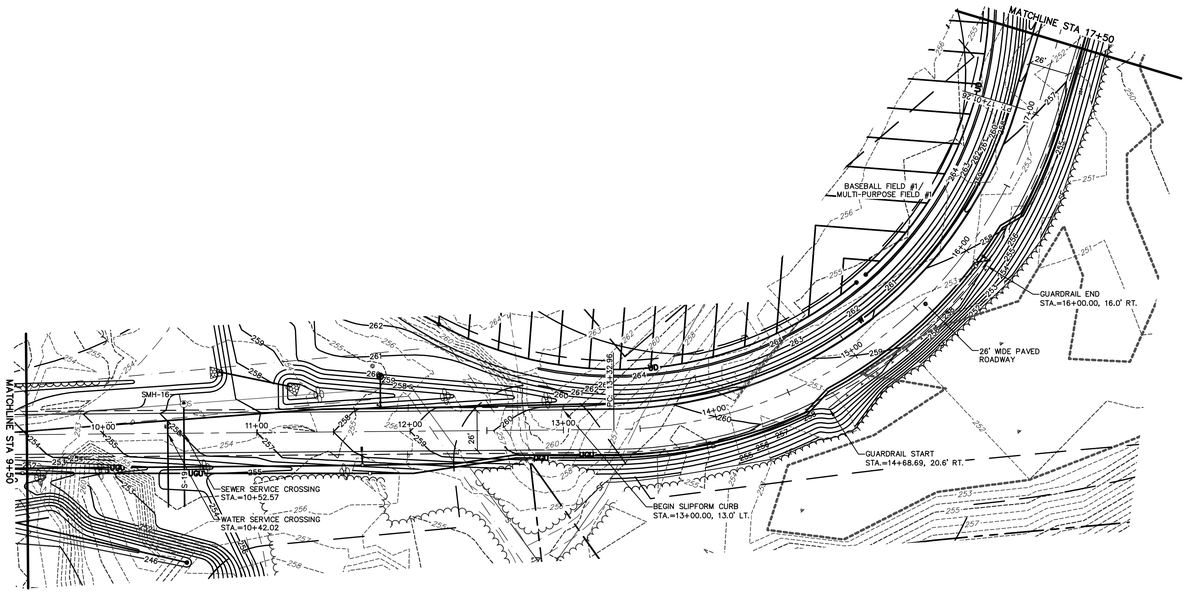
SHEETC520FC75

12233PP.dwg, TAB:PP1



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
120 / 118	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
W	WATER	W
	WATER GATE VALVE	
	HYDRANT	
S	SANITARY SEWER	S
	SANITARY MANHOLE	
SD	STORM DRAIN	SD
UD	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
OHU	OVERHEAD UTILITY	OHU
UGU	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
FB	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	

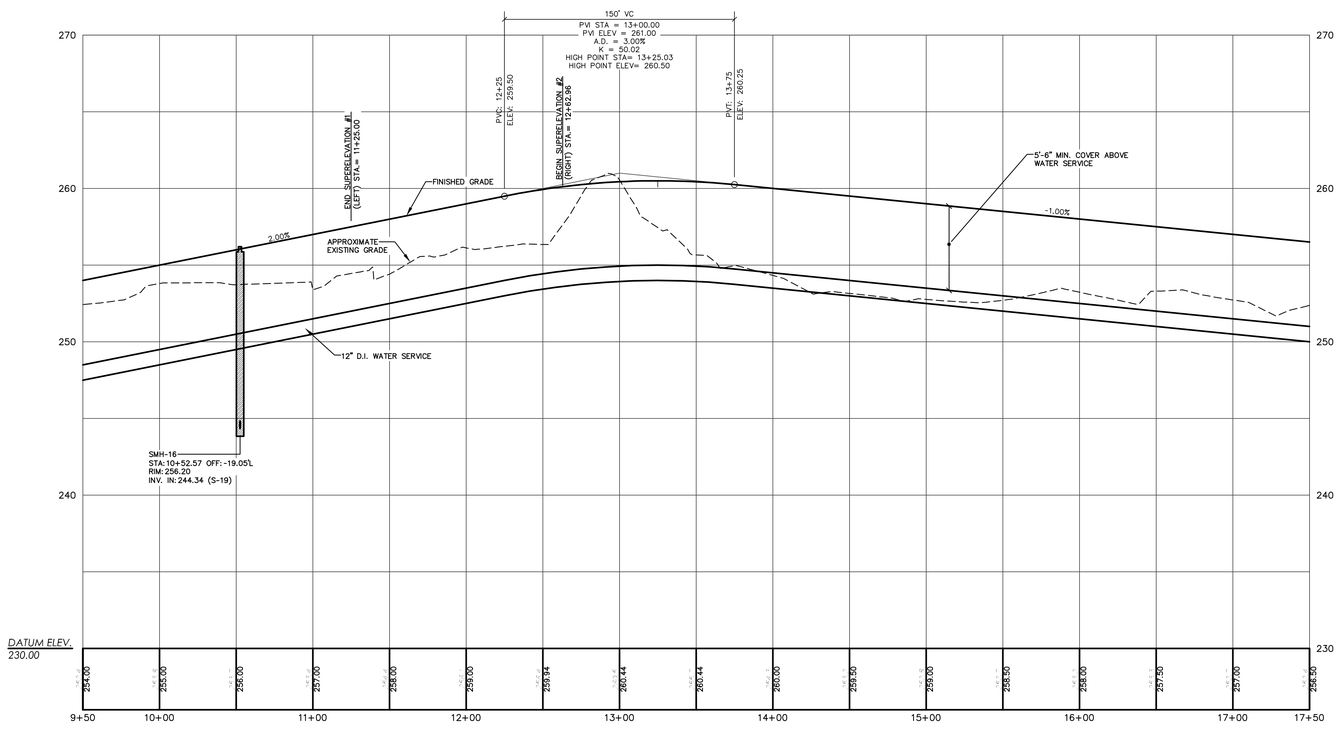


ACCESS ROAD PLAN STA 9+50 TO STA 17+50

SCALE: 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
3. SEE VEHICULAR GUARDRAIL DETAIL FOR GUARDRAIL START AND END TERMINAL TYPE.
4. DESIGN OF RETAINING WALLS TO BE COMPLETED BY BLOCK MANUFACTURER. SUBMIT FINAL DESIGN PLANS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN PLANS SHALL INCLUDE PROVISIONS FOR DRAINAGE FOR SOILS BEHIND WALL.
5. SEE SUPERELEVATED ACCESS DRIVE SECTION FOR SUPERELEVATION TRANSITION STATIONING.
6. SEE GRADING AND EROSION CONTROL PLANS FOR SPECIFIC EROSION CONTROLS ALONG ACCESS DRIVE. THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.



ACCESS ROAD PROFILE STA 9+50 TO STA 17+50

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	RESUBMITTED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
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Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

PLAN & PROFILE

OF:

SANFORD HIGH SCHOOL & TECHNICAL CENTER

ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

FOR:

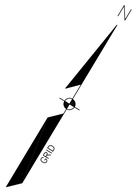
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 40'

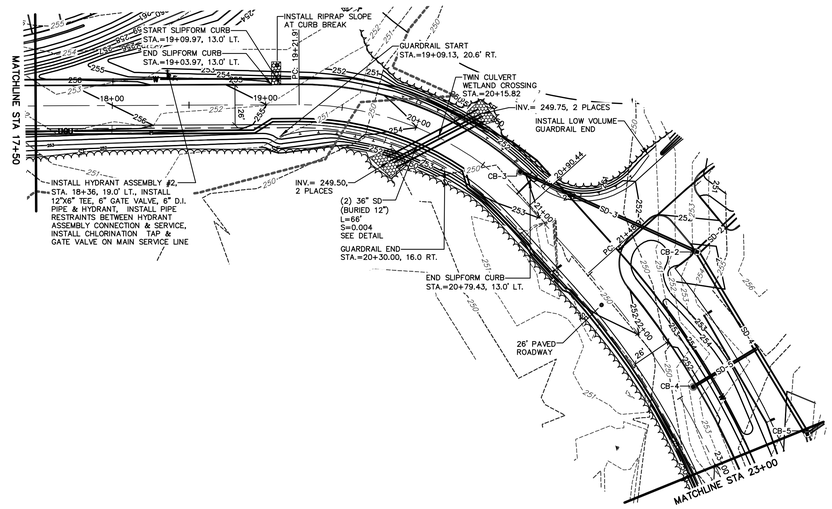
SHEETC530FC75

12233PP.dwg, TAB:PP2



LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
120 / 118	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	WATER	W
	WATER GATE VALVE	
	WATER SHUT OFF	
	HYDRANT	
	STORM DRAIN	SD
	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
	OVERHEAD UTILITY	OHU
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	



ACCESS ROAD PLAN STA 17+50 TO STA 23+00

SCALE: 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
3. SEE VEHICULAR GUARDRAIL DETAIL FOR GUARDRAIL START AND END TERMINAL TYPE.
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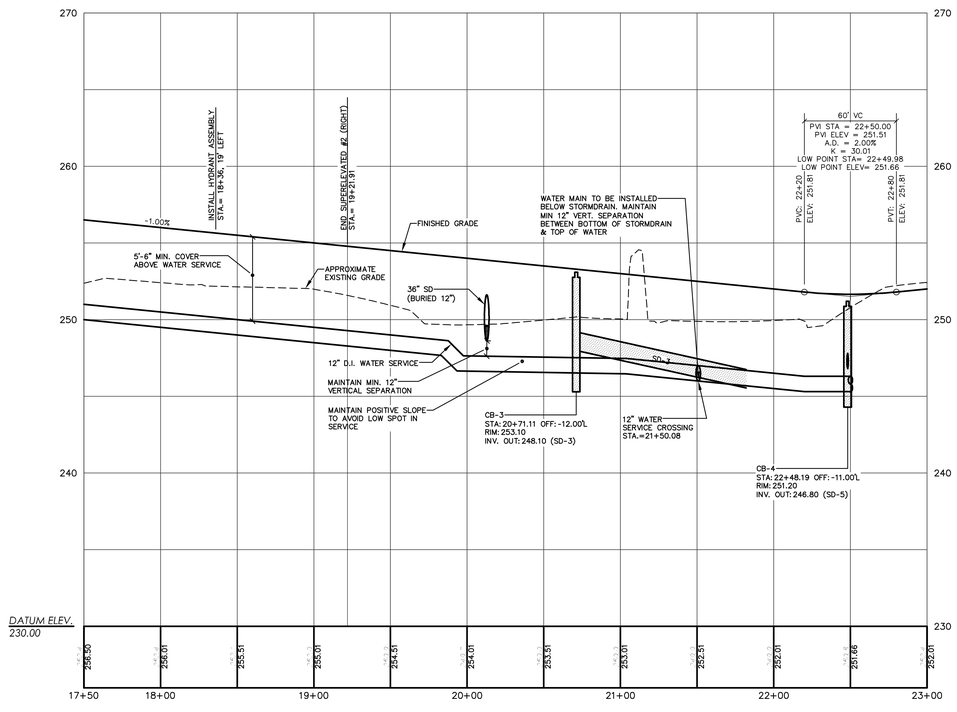

ACCESS ROAD PROFILE STA 17+50 TO STA 23+00

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER DEP COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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PLAN & PROFILE
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

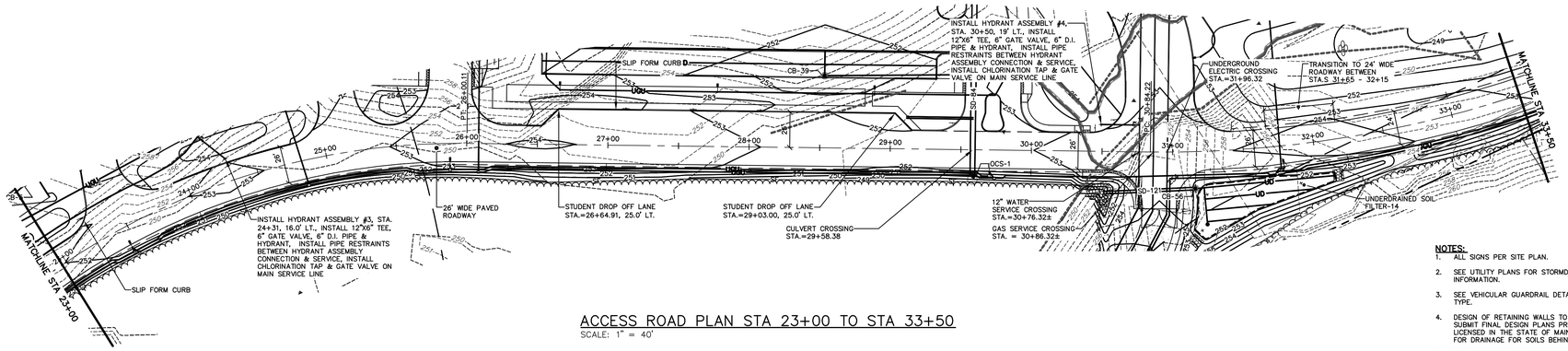
PROJECT NO.	SCALE
12233	1" = 40'

SHEETC540FC75

12233PP.dwg, TAB:PP3

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
120 118	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	GAS	G
	WATER	W
	WATER GATE VALVE	
	HYDRANT	
	STORM DRAIN	SD
	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
	OVERHEAD UTILITY	OHU
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	



ACCESS ROAD PLAN STA 23+00 TO STA 33+50

SCALE: 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
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5. SEE SUPERELEVATED ACCESS DRIVE SECTION FOR SUPERELEVATION TRANSITION STATIONING.
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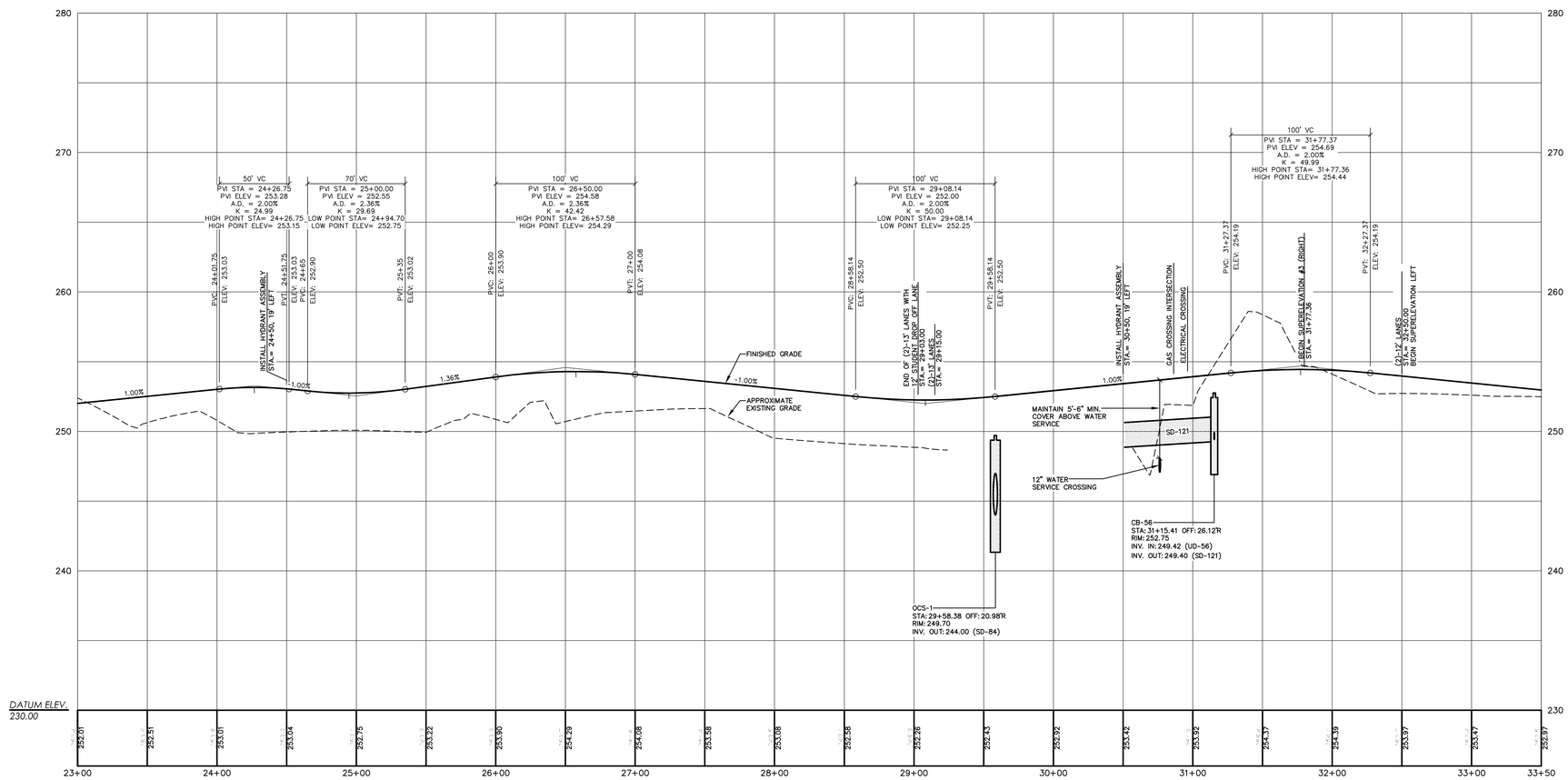

ACCESS ROAD PROFILE STA 23+00 TO STA 33+50

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE CRAIG A. BURGESS No. 12638 PROFESSIONAL ENGINEER

REGISTERED LANDSCAPE ARCHITECT KYLIE S. MASON 3335 STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV#	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER DEP COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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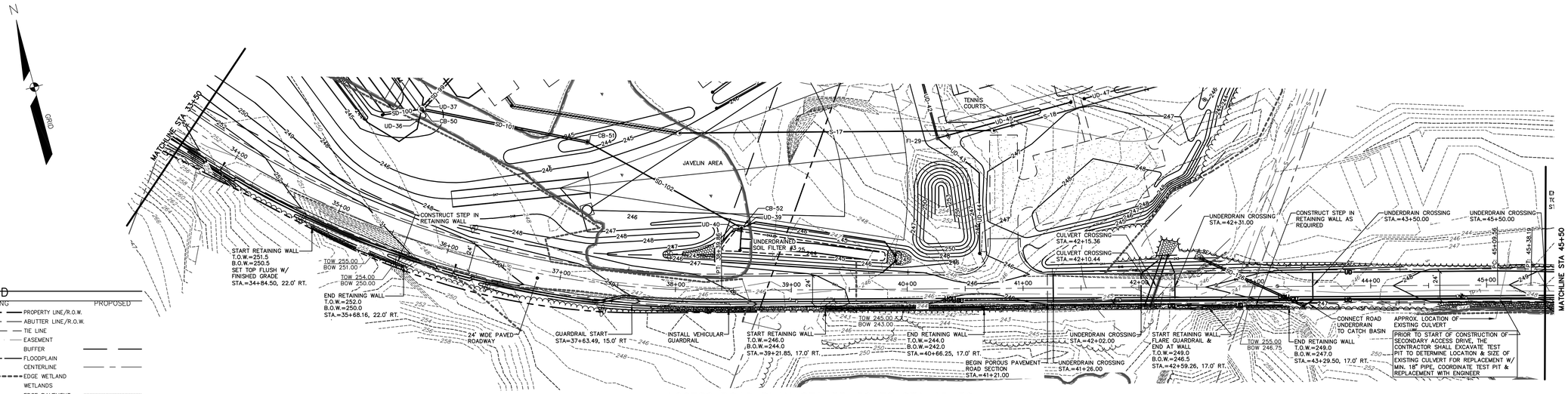
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 40'

SHEETC550FC75

12233PP.dwg, TAB:PP4



ACCESS ROAD PLAN STA 33+50 TO STA 45+50

SCALE: 1" = 40'

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
--420-- --118--	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	WATER	W
	WATER GATE VALVE	
	HYDRANT	
S	SANITARY SEWER	
Ⓢ	SANITARY MANHOLE	
SD	STORM DRAIN	SD
	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
	OVERHEAD UTILITY	OHU
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	UTILITY POLE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
3. SEE VEHICULAR GUARDRAIL DETAIL FOR GUARDRAIL START AND END TERMINAL TYPE.
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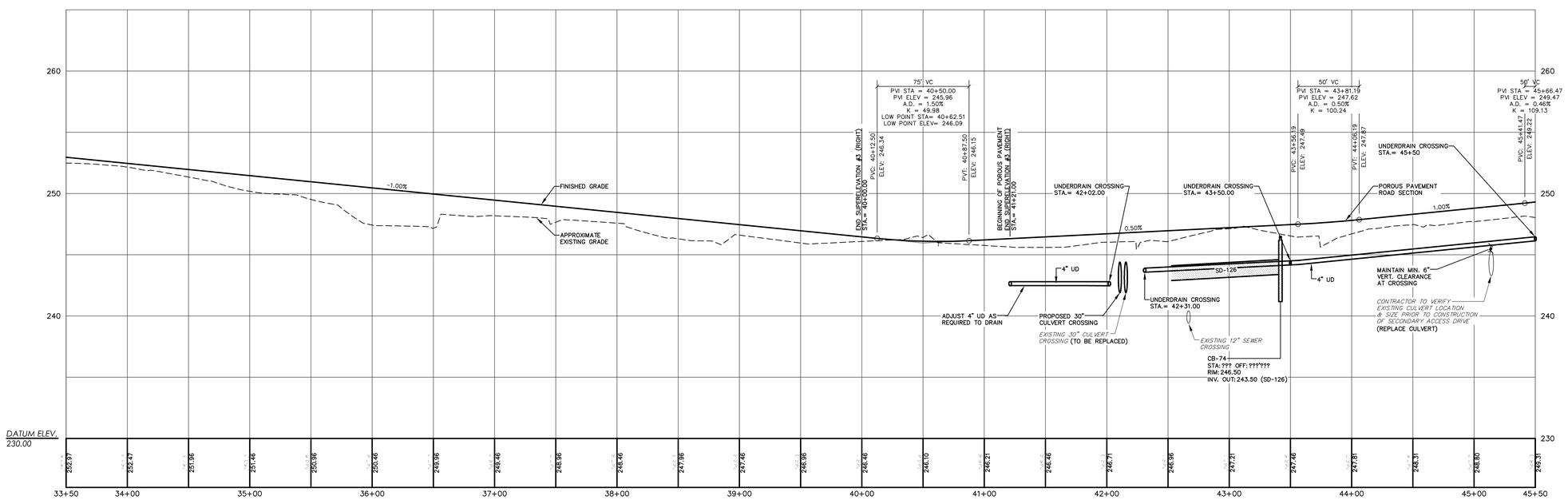

ACCESS ROAD PROFILE STA STA 33+50 TO STA 45+50

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER DEP COMMENTS & REISSUED
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ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 40'

SHEETC560FC75

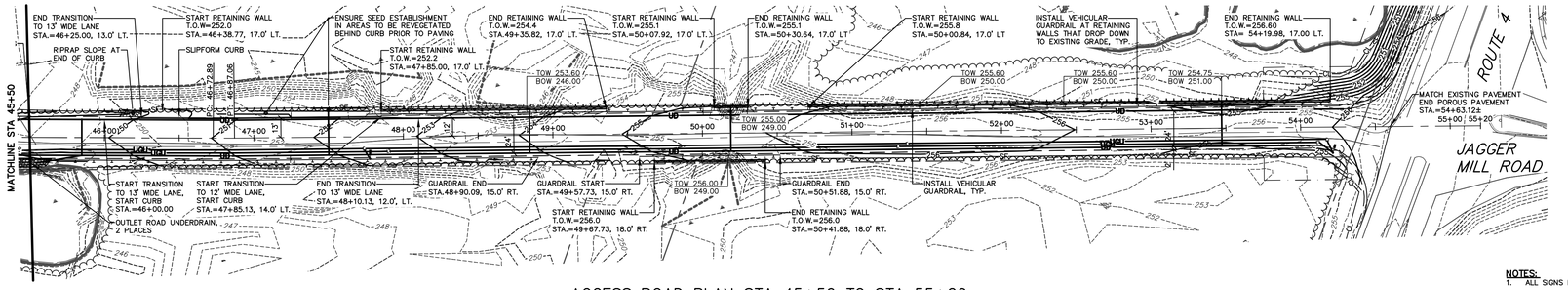
12233PP.dwg, TAB:PP5

N

GRID

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
	EDGE PAVEMENT	
	PAVEMENT SAWCUT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
--420-- --118--	CONTOURS	420
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	WATER	
	WATER GATE VALVE	
	WATER SHUT OFF	
	HYDRANT	
	STORM DRAIN	SD
	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
	OVERHEAD UTILITY	OHU
	UNDERGROUND UTILITY	UGU
	LIGHT POLE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	



ACCESS ROAD PLAN STA 45+50 TO STA 55+20

SCALE: 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
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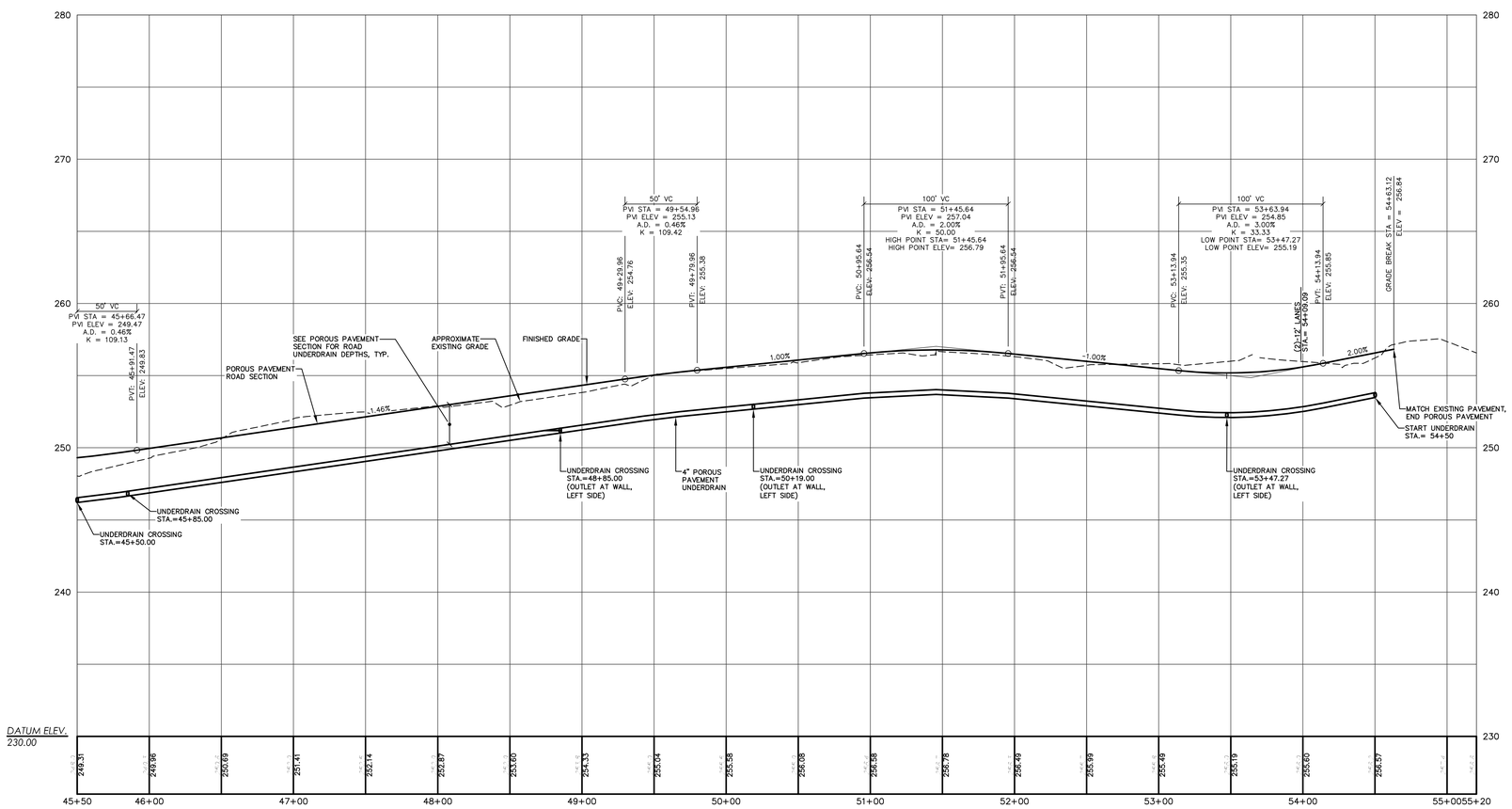

ACCESS ROAD PROFILE STA 45+50 TO STA 55+20

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
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SANFORD, MAINE 04073
FOR:
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DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

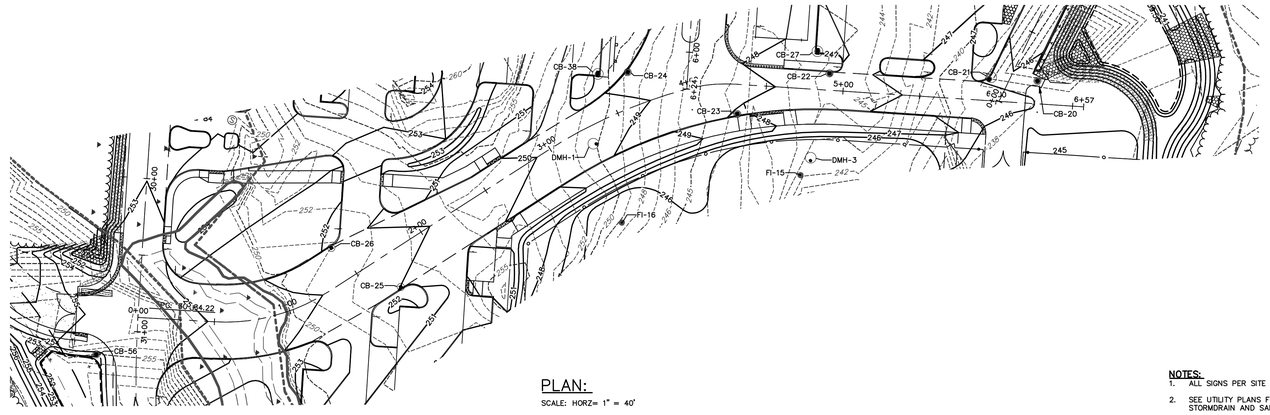
PROJECT NO.	SCALE
12233	1" = 40'

SHEETC570FC75

12233PP.dwg, TAB:PP6

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
--120-- --118--	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	DRAINAGE MANHOLE	
	CATCH BASIN	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	
	EROSION CONTROL BLANKET	
	INLET PROTECTION	



PLAN:

SCALE: HORZ= 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR UTILITY ROUTING. UTILITY PLANS INCLUDE TABLES FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
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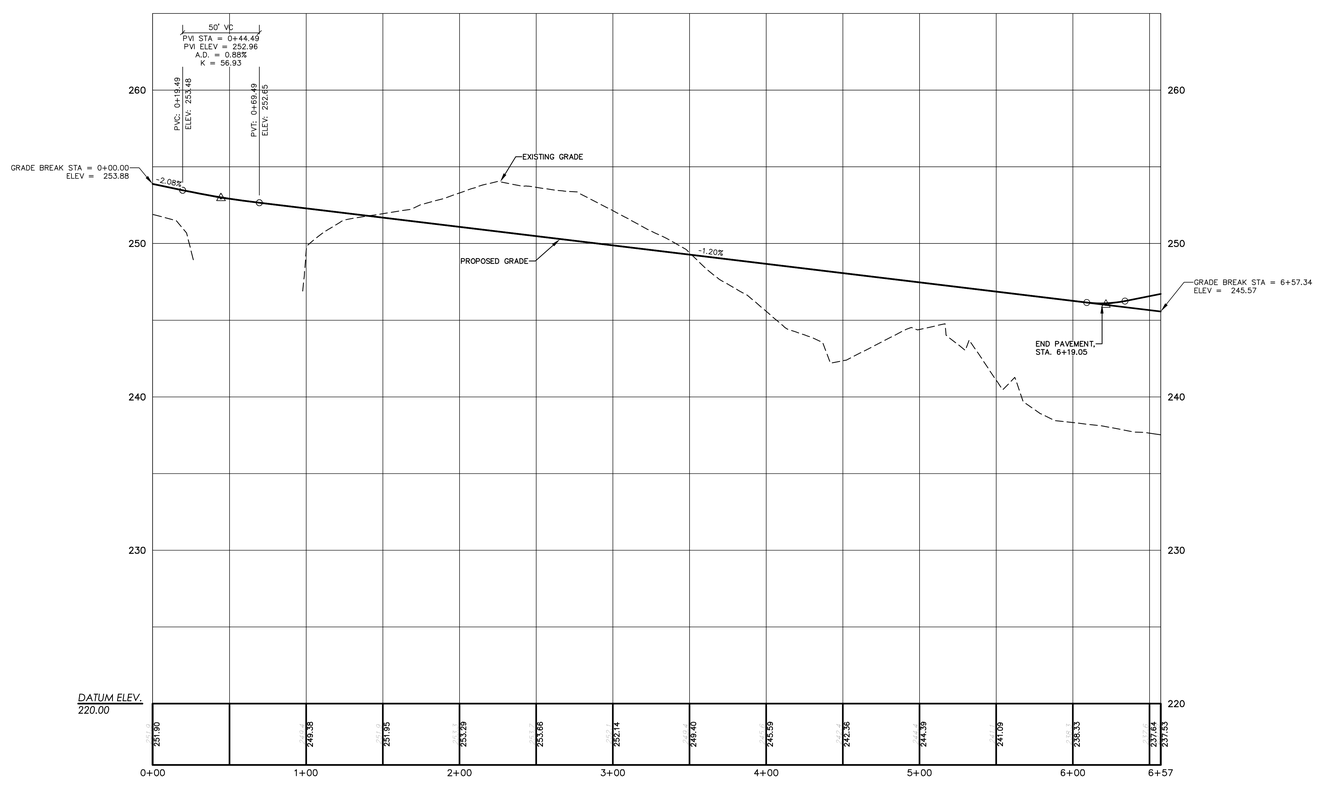

PROFILE:

SCALE: HORZ= 1" = 40'
VERT= 1" = 4'

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite A
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Tel: 207-200-2100
250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-9538

PLAN & PROFILE
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

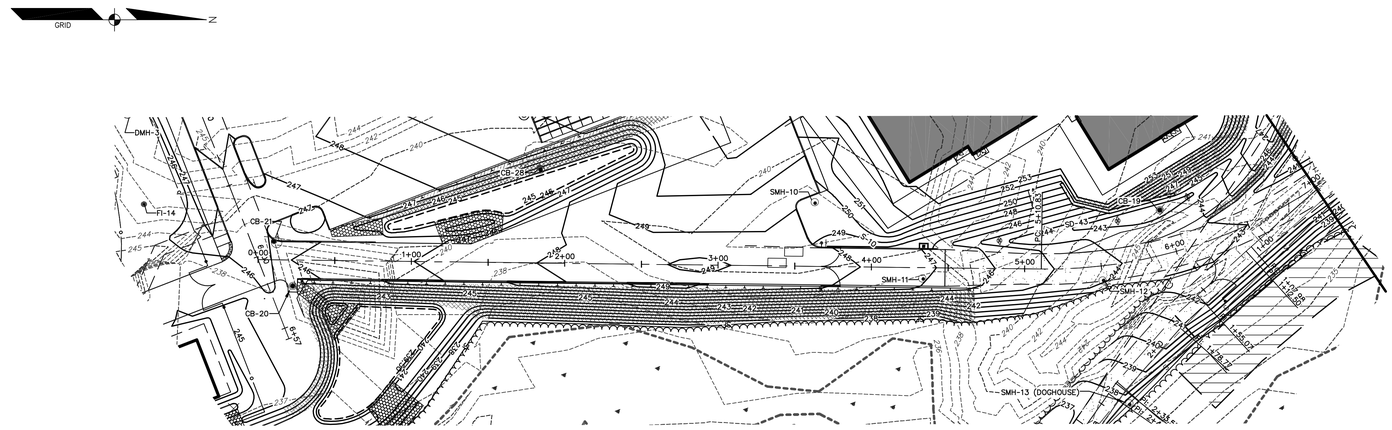
PROJECT NO.	SCALE
12233	1" = 40'

SHEET C5 OF C75

12233PP2.dwg, TAB: PP1

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	EDGE WETLAND	
	WETLANDS	
	CENTERLINE	
	EDGE PAVEMENT	
	EDGE CONCRETE	
	PAVEMENT PAINT	
	EDGE GRAVEL	
	CURB LINE	
	TREELINE	
--120-- --118--	CONTOURS	120
	CHAIN LINK FENCE	
	GUARD RAIL	
	RETAINING WALL	
	BOLLARD	
	SIGN	
	DRAINAGE MANHOLE	
	CATCH BASIN	
	SANITARY MANHOLE	
	FILTER BARRIER	FB
	RIPRAP	
	CHECK DAM	
	EROSION CONTROL BLANKET	
	INLET PROTECTION	



PLAN:

SCALE: HORZ= 1" = 40'

NOTES:

1. ALL SIGNS PER SITE PLAN.
2. SEE UTILITY PLANS FOR UTILITY ROUTING. UTILITY PLANS INCLUDE TABLES FOR STORMDRAIN AND SANITARY PIPE AND STRUCTURE INFORMATION.
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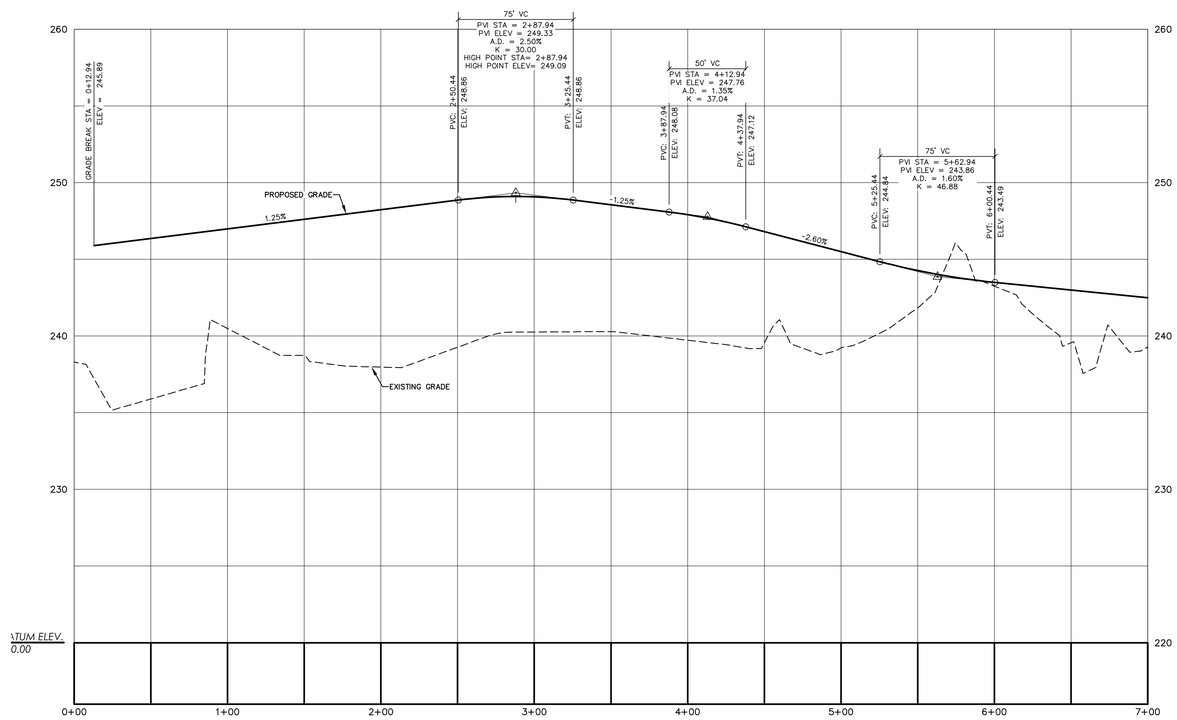

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PROJECT NO.	SCALE
12233	1" = 40'

SHEETC590FC75

12233PP2.dwg, TAB:PP2

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	TIE LINE	
	EASEMENT	
	BUFFER	
	FLOODPLAIN	
	CENTERLINE	
	EDGE WETLAND	
	WETLANDS	
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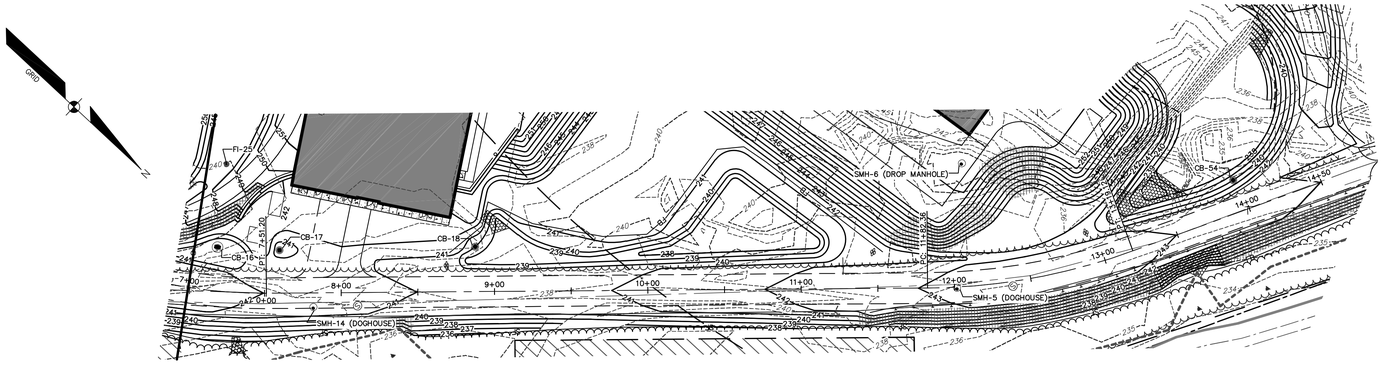

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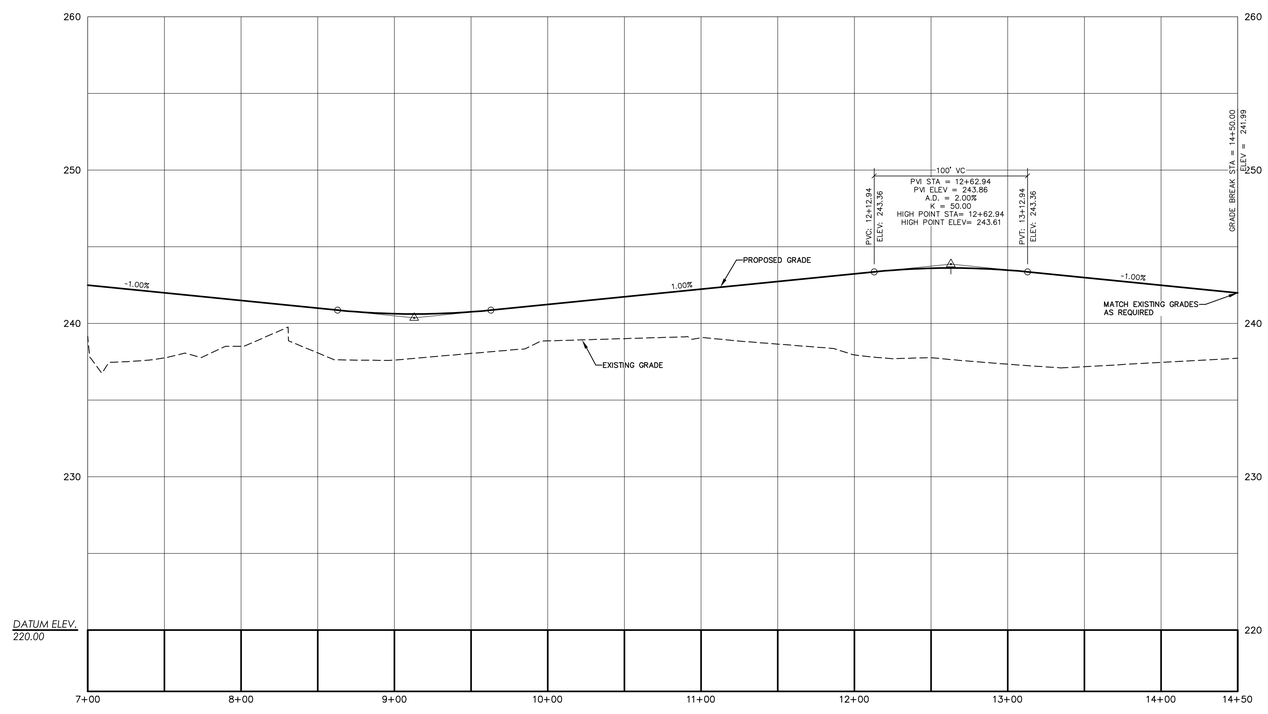

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PROJECT NO.	SCALE
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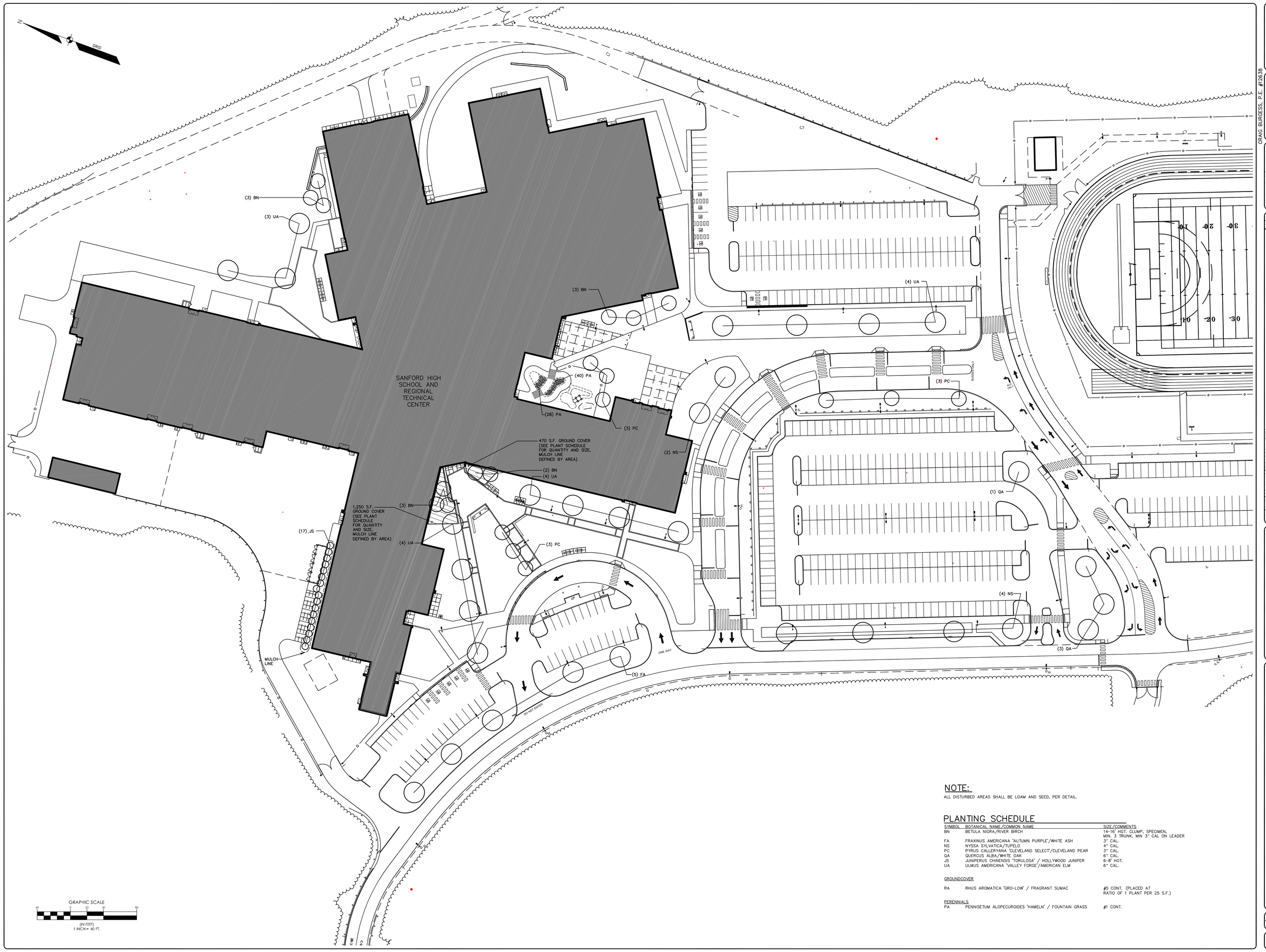
SHEETC600FC75

12233PP2.dwg, TAB:PP3



NOTE:

ALL DISTURBED AREAS SHALL BE LOAM AND SEED, PER DETAIL.

PLANTING SCHEDULE

SYMBOL	BOTANICAL NAME/COMMON NAME	SIZE/COMMENTS
BN	BETULA NIGRA/RIVER BIRCH	14-16' HGT. CLUMP, SPECIMEN, MIN. 3 TRUNK, MIN 3" CAL ON LEADER
FA	FRAXINUS AMERICANA 'AUTUMN PURPLE'/WHITE ASH	3" CAL.
NS	NYSSA SYLVATICA/TUPELO	4" CAL.
PC	PYRUS CALLERYANA 'CLEVELAND SELECT'/CLEVELAND PEAR	3" CAL.
QA	QUERCUS ALBA/WHITE OAK	6" CAL.
JS	JUNIPERUS CHINENSIS 'TORULOSA' / HOLLYWOOD JUNIPER	6-8' HGT.
UA	ULMUS AMERICANA 'VALLEY FORGE'/AMERICAN ELM	6" CAL.
GROUNDCOVER		
RA	RHUS AROMATICA 'GRO-LOW' / FRAGRANT SUMAC	#5 CONT. (PLACED AT RATIO OF 1 PLANT PER 25 S.F.)
PERENNIALS		
PA	PENNISETUM ALOPECUROIDES 'HAMELN' / FOUNTAIN GRASS	#1 CONT.

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PROJECT NO.	SCALE
12233	1" = 40'

SHEET C610FC75

12233L2.dwg, TAB:L

EROSION CONTROL MEASURES

PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THIS EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 85%-90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCES AND EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL STAFF. THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION . AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD . OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN 14-DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100' OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

EROSION CONTROL APPLICATIONS & MEASURES
THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. ALSO, AREAS, WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRASSED WATERWAYS AND ON SLOPES GREATER THAN 15%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES).
TYPES OF MULCH:

HAY OR STRAW: SHALL BE APPLIED AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE).

EROSION CONTROL MIX: SHALL BE PLACED EVENLY AND MUST PROVIDE 100% SOIL COVERAGE. EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES 3:1 OR LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THE THICKNESS ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS SHALL NOT BE USED ON SLOPES GREATER THAN 2:1.

EROSION CONTROL BLANKET: SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. SOIL STOCKPILES:

STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1. OF THIS SECTION) WITHIN 7 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4. OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.

4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS SHALL BE STAKED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. SEDIMENT BARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 85%-90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION.

SILT FENCE: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

HAY BALES: SHALL NOT BE INSTALLED ADJACENT TO WETLAND. INSTALL PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DETERIORATION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

EROSION CONTROL MIX: SHALL NOT BE USED ADJACENT TO WETLANDS. INSTALL PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. THE MIX COMPOSITION SHALL MEET THE STANDARDS DESCRIBED WITHIN THE MDEP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

CONTINUOUS CONTAINED BERM: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX PLACED WITHIN A SYNTHETIC TUBULAR NETTING AND PERFORMS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALE ARE ESTABLISHED WITH AT LEAST 85%-90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

STONE CHECK DAMS: SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAT THE OUTER EDGES.

HAY BALE CHECK DAMS: WE DO NOT RECOMMEND THE USE OF HAY BALES AS CHECK DAMS.

MANUFACTURED CHECK DAMS: MANUFACTURED CHECK DAMS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL, STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.

6. STORMDRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORMDRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT PONDING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

HAY BALE DROP INLET PROTECTION: WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET): SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET): MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE THE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY SWEPT OR WASHED TO FURTHER MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS.

8. DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY TO REDUCE DUST DURING THE DRY MONTHS. APPLYING OTHER DUST CONTROL PRODUCTS SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES. HOWEVER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE.

9. TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDBED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHORT LIVING) SHALL BE SELECTED FROM THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2003 OR LATER. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

10. PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR, PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

SEEDBED PREPARATION:

A. FOUR (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

ITEM	APPLICATION RATE
10-20-20 FERTILIZER (N-P205-K20 OR EQUAL)	18.4 LBS./1,000 S.F.
GROUND LIMESTONE (50% CALCIUM & MAGNESIUM OXIDE)	138 LBS./1,000 S.F.

C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDBED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND.

APPLICATION OF SEED:

A. SEEDING: SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: (MDEP SEED MIX 2 IS DISPLAYED)

SEED TYPE	APPLICATION RATE
CREEPING RED FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
REDTOP	0.05 LBS/1,000 S.F. (2 LBS/ACRE)
TALL FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
TOTAL:	0.97 LBS/1,000 S.F. (42 LBS/ACRE)

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. MDEP RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2003 OR LATER.

B. HYDROSEEDING: SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. RECOMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. MULCHING: SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

SODDING:
FOLLOWING SEEDBED PREPARATION, SOD CAN BE APPLIED IN LIEU OF SEEDING IN AREAS WHERE IMMEDIATE VEGETATION IS MOST BENEFICIAL SUCH AS DITCHES, AROUND STORMWATER DROP INLETS AND AREAS OF AESTHETIC VALUE. SOD SHOULD BE LAID AT RIGHT ANGLES TO THE DIRECTION OF FLOW, STARTING AT THE LOWEST ELEVATION. SOD SHOULD BE ROLLED OR TAMPED DOWN TO EVEN OUT THE JOINTS ONCE LAID DOWN. WHERE FLOW IS PREVALENT THE SOD MUST BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOD IMMEDIATELY AFTER INSTALLATION. IN MOST CASES, SOD CAN BE ESTABLISHED BETWEEN APRIL 1ST AND NOVEMBER 15TH OF THE CONSTRUCTION YEAR, HOWEVER, REFER TO THE WINTER EROSION CONTROL NOTES FOR ANY ACTIVITIES AFTER OCTOBER 1ST.

TRENCH DEWATERING AND TEMPORARY STREAM DIVERSION:

WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE LINED POOL) PRIOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING AND SEDIMENT DISCHARGES TO A PROTECTED RESOURCE. IN NO CASE SHALL THE FILTER BAG OR CONTAINMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

STANDARDS FOR TIMELY STABILIZATION:

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C.) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(D.) OF THIS STANDARD.

B. STABILIZE THE SLOPE WITH SOD -- THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).

C. STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

D. STABILIZE THE SLOPE WITH STONE RIPRAP -- THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C.) OF THIS STANDARD.

B. STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.

C. STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

1. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, OR AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS AS NEEDED TO ALLOW CONTINUED PROPER FUNCTIONING OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN.

2. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 85%-90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

WINTER EROSION CONTROL MEASURES

THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDER TAKEN DURING THE PROCEEDING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. ALL AREAS SHALL BE CONSIDERED TO BE DENUDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

1. SOIL STOCKPILES

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1,000 S.F. (3 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA.

PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

3. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT SILT FENCES.

4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUDED UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1.000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS./1,000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1.000 SQUARE FEET (3TONS/ACRE) AND ADEQUATELY ANCHORED THAT GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH.

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

5. MULCHING ON SLOPES AND DITCHES

SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH PEG AND NETTING OR WITH EROSION CONTROL BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS/1,000 S.F. ON ALL SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

6. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOOMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY BE SELECTED TO BE PLACED PRIOR TO THE PLACEMENT OF MULCH AND FABRIC NETTING ANCHORED WITH STAPLES. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4' OF LOAM AND SEED AT AN APPLICATION RATE OF 5LBS/1000 S.F. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 75% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.

7. TRENCH DEWATERING AND TEMPORARY STREAM DIVERSION

WATER FROM CONSTRUCTION TRENCH DEWATERING OR TEMPORARY STREAM DIVERSION WILL PASS FIRST THROUGH A FILTER BAG OR SECONDARY CONTAINMENT STRUCTURE (E.G. HAY BALE LINED POOL) PRIOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING, ICING, AND SEDIMENT DISCHARGES TO A PROTECTED RESOURCE. IN NO CASE SHALL THE FILTER BAG OR CONTAINMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

8. INSPECTION AND MONITORING

MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION.
FOLLOWING THE TEMPORARY AND OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL IN THE SPRING INSPECT AND REPAIR ANY DAMAGES AND/ OR UNESTABLISHED SPOTS. ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 85 TO 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

STANDARDS FOR TIMELY STABILIZATION OF CONSTRUCTION SITES DURING WINTER

1. STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS -- THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15. THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL GRASS-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. IF THE APPLICANT FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS-LINED BY SEPTEMBER 15, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.

INSTALL A SOD LINING IN THE DITCH -- THE APPLICANT WILL LINE THE DITCH WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD STRIPS FROM SLOUGHING DURING FLOW CONDITIONS.
INSTALL A STONE LINING IN THE DITCH --THE APPLICANT WILL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.

2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE APPLICANT WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE APPLICANT WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE APPLICANT FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE APPLICANT WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM III OF THIS CONDITION OR WITH STONE RIPRAP AS DESCRIBED IN ITEM IV OF THIS CONDITION.

STABILIZE THE SLOPE WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).

STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE APPLICANT WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.

STABILIZE THE SLOPE WITH STONE RIPRAP -- THE APPLICANT WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE APPLICANT WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE APPLICANT FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.
STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE APPLICANT WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM III OF THIS STANDARD.
STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

CONSTRUCTION NOTES

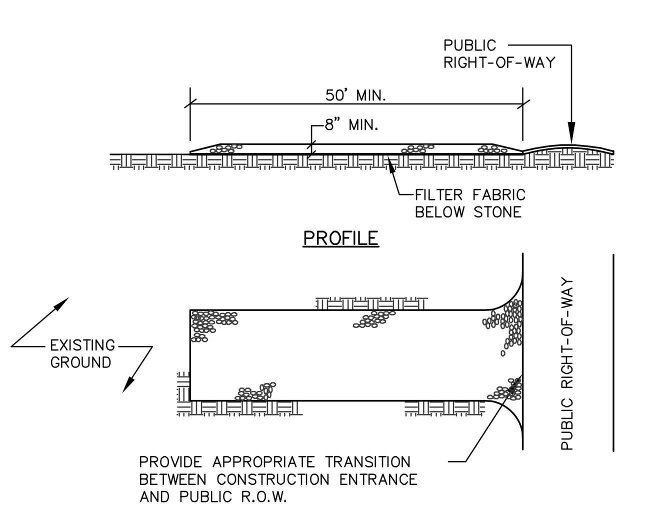
1. ALL WORK SHALL CONFORM TO THE APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HERSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM OR HERSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND IN THE FIELD.
4. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OWNER'S REQUIREMENTS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
6. CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMENT DEPOSITED ON PUBLIC STREETS, SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO CONSTRUCTION.
7. CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SITE STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL AREAS TO ORIGINAL CONDITION AND AS DIRECTED BY DESIGN DRAWINGS.
8. SITE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PUBLISHED BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, MARCH 1991 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
10. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (811) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.
11. CONTRACTOR SHALL BE AWARE THAT DIG SAFE ONLY NOTIFIES ITS "MEMBER" UTILITIES ABOUT THE DIG. WHEN NOTIFIED, DIG SAFE WILL ADVISE CONTRACTOR OF MEMBER UTILITIES IN THE AREA. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONTACTING NON-MEMBER UTILITIES DIRECTLY. NON-MEMBER UTILITIES MAY INCLUDE TOWN OR CITY WATER AND SEWER DISTRICTS AND SMALL LOCAL UTILITIES, AS WELL AS USG PUBLIC WORKS SYSTEMS.
12. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRSA 3360-A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITIES TO OBTAIN AUTHORIZATION PRIOR TO RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. IF A UTILITY CONFLICT ARISES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, THE MUNICIPALITY AND APPROPRIATE UTILITY COMPANY PRIOR TO PROCEEDING WITH ANY RELOCATION.
13. ALL PAVEMENT MARKINGS AND DIRECTIONAL SIGNAGE SHOWN ON THE PLAN SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.
14. ALL PAVEMENT JOINTS SHALL BE SAWCUT PRIOR TO PAVING TO PROVIDE A DURABLE AND UNIFORM JOINT.
15. NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.
16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL REQUIRE PERMIT FROM THE CITY OF SANFORD.
17. IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AND AS SPECIFIED ON PLANS.
18. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR THE REMOVAL, REPLACEMENT AND RECTIFICATION OF ALL DAMAGED AND DEFECTIVE MATERIAL AND WORKMANSHIP IN CONNECTION WITH THE CONTRACT WORK. THE CONTRACTOR SHALL REPLACE OR REPAIR AS DIRECTED BY THE OWNER ALL SUCH DAMAGED OR DEFECTIVE MATERIALS WHICH APPEAR WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
19. ALL WORK PERFORMED BY THE GENERAL CONTRACTOR AND/OR TRADE SUBCONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF LOCAL, STATE OR FEDERAL LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.
20. WHERE THE TERMS "APPROVED EQUAL", "OTHER APPROVED", "EQUAL TO", "ACCEPTABLE" OR OTHER GENERAL QUALIFYING TERMS ARE USED IN THESE NOTES, IT SHALL BE UNDERSTOOD THAT REFERENCE IS MADE TO THE RULING AND JUDGMENT OF SEBAGO TECHNICS, INC.
21. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR THE WORK UNTIL TURNED OVER TO THE OWNER.
22. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.
23. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
24. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. ANY MODIFICATION TO SUIT FIELD DIMENSION AND CONDITION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.
25. BEFORE THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIALS, REPAIR OR REPLACE PRIVATE OR PUBLIC PROPERTY WHICH MAY HAVE BEEN DAMAGED OR DESTROYED DURING CONSTRUCTION, CLEAN THE AREAS WITHIN AND ADJACENT TO THE PROJECT WHICH HAVE BEEN OBSTRUCTED BY HIS/HER OPERATIONS, AND LEAVE THE PROJECT AREA NEAT AND PRESENTABLE.
26. ALL SUBSURFACE UTILITY LINES SHOWN HEREON ARE BASED SOLELY ON THE FIELD LOCATION OF VISIBLE STRUCTURES, SMH'S, CB'S, HYDRANTS, ETC.. IN CONJUNCTION WITH DESIGN AND OR AS-BUILT PLANS SUPPLIED TO SEBAGO TECHNICS INC. BY OTHERS. PRIOR TO ANY CONSTRUCTION, EXCAVATION, TEST BORINGS, DRILLING, ETC.. DIG SAFE MUST BE NOTIFIED AND A SITE IDENTIFICATION NUMBER ALONG WITH A SAFE TO DIG DATE OBTAINED. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION, DEPTH AND MATERIAL OF ALL SUBSURFACE UTILITY LINES SHOWN HEREON AND ANY AND ALL OTHERS LOCATED ON SITE WITHIN THE CONSTRUCTION AREA.

INSPECTIONS/MONITORING:

1. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, OR AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS AS NEEDED TO ALLOW CONTINUED PROPER FUNCTIONING OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN.
2. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 85%-90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

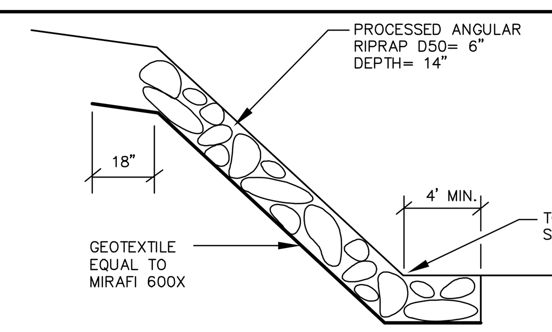
HOUSEKEEPING:

A. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
B. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS, ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
C. FUGITIVE SEDIMENT AND DUST: ACTIONS MUST BE TAKEN TO INSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL.
D. DEBRIS AND OTHER MATERIALS: LITTER, CONSTRUCTION DEBRIS, AND CHEMICALS EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
E. TRENCH DEWATERING: TRENCH DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFERDAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES, THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER MUST BE REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, AND MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED.

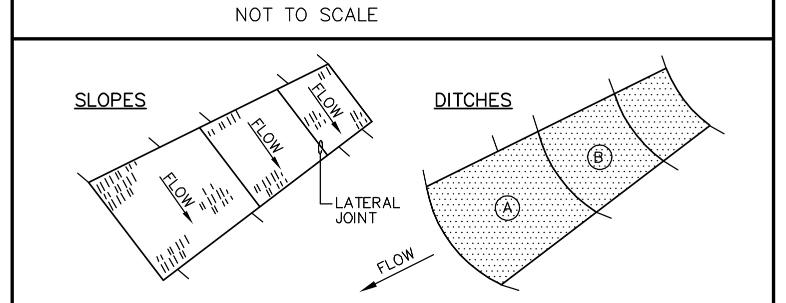


NOTES:
1. STONE SIZE- AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
2. LENGTH- AS SHOWN ON PLANS, MIN. 50 FEET.
3. THICKNESS- NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.
5. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION EXIT
NOT TO SCALE

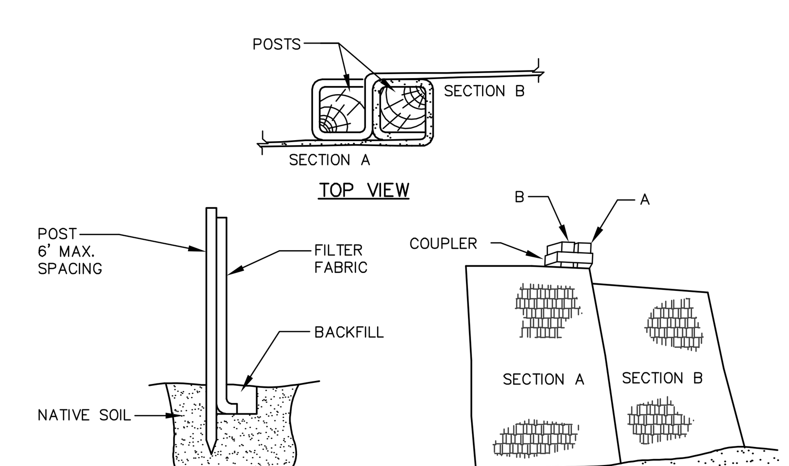


SIDE SLOPE RIPRAP
NOT TO SCALE



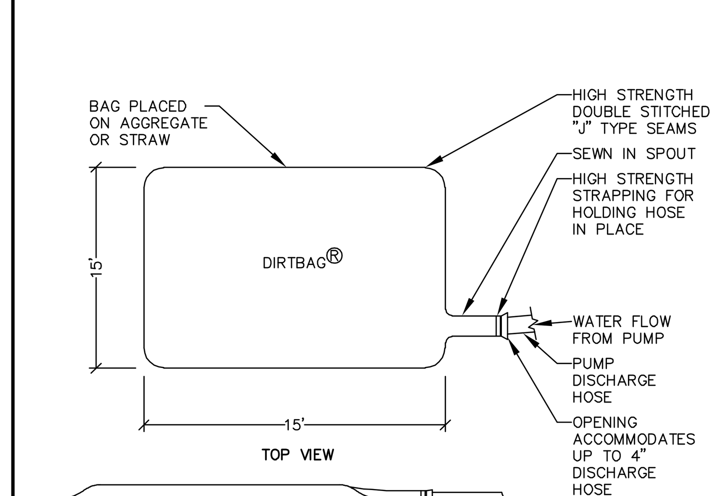
NOTES:
1. BURY THE TOP END OF THE MESH MATERIAL IN A 6" TRENCH AND BACKFILL AND TAMP TRENCHING SECURE END WITH STAPLES AT 6" SPACING, 4" DOWN FROM EXPOSED END.
2. FLOW DIRECTION JOINTS TO HAVE UPPER END OF LOWER STRIP BURIED WITH UPPER LAYERS OVERLAPPED 4" AND STAPLED. OVERLAP B OVER A.
3. LATERAL JOINTS TO HAVE 4" OVERLAP OF STRIPS. STAPLE 18" ON CENTER.
4. STAPLE OUTSIDE LATERAL EDGE 2' ON CENTER.
5. WIRE STAPLES TO BE MIN. OF # 11 WIRE 6" LONG AND 1-1/2" WIDE.
6. USE NORTH AMERICAN GREEN DS 150 OR APPROVED EQUAL.

EROSION CONTROL BLANKET
NOT TO SCALE



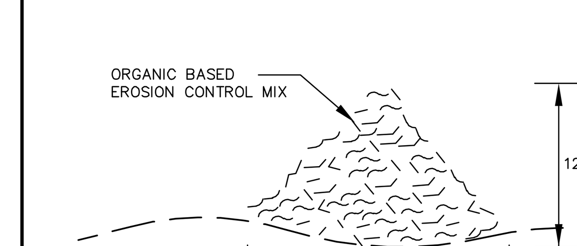
INSTALLATION NOTES:
1. EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.
5. JOIN SECTION AS SHOWN ABOVE.
6. BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

FILTER BARRIER
NOT TO SCALE



INSTALLATION NOTES
1. DEWATERING IF NECESSARY FOR STORMWATER BMP CONSTRUCTION AND REMOVAL OF ACCUMULATED SEDIMENT SHALL BE ACCOMPLISHED WITHOUT DISCHARGING SEDIMENT LADEN WATER TO THE WETLANDS ABUTTING THE SITE.
2. CONTRACTOR MAY UTILIZE A GEOTEXTILE PUMPED SEDIMENT CONTROL DEVICE ("DIRTBAG" OR EQUIVALENT).
3. DIRTBAG SHALL BE INSTALLED TO MAINTAIN A MINIMUM 75' UNDISTURBED BUFFER FROM WETLANDS.
4. INSTALL DIRTBAG ON A 3" BED OF HAY TO MAXIMIZE FLOW OF WATER THROUGH ALL SURFACES OF THE BAG.
5. SURROUND DIRTBAG WITH A DOUBLE ROW OF SILTATION FENCE, OR AN EROSION CONTROL BERM BACKED BY SILTATION FENCE.

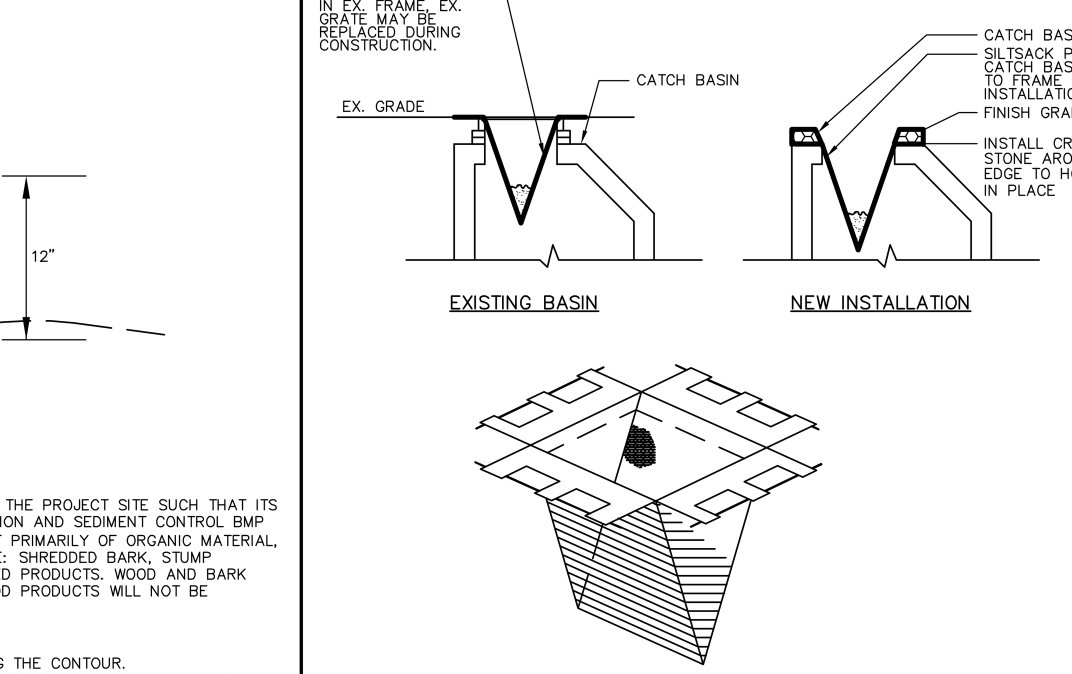
DIRTBAG PUMPED SILT CONTROL SYSTEM
NOT TO SCALE



COMPOSITION
EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

INSTALLATION:
1. THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
2. EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER.
3. THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.
4. EROSION CONTROL MIX CAN BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS IN AREAS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.

EROSION CONTROL MIX BERM
NOT TO SCALE



NOTES:
PRIOR TO FINAL GRADING AND PAVING OPERATIONS BEGIN A CATCH BASIN INSERT (SUCH AS A SILT SACK® OR A DANDY BAG® II) MUST BE INSTALLED IN EACH BASIN PER MANUFACTURES INSTRUCTIONS. HAY BALES SHOULD BE REMOVED ONCE INSERTS ARE INSTALLED.

CATCH BASIN PROTECTION DETAIL (FOR PAVED AREAS)
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

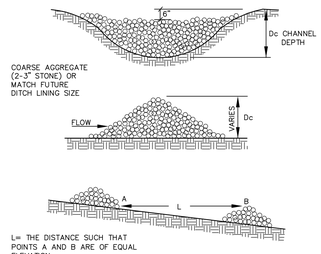
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

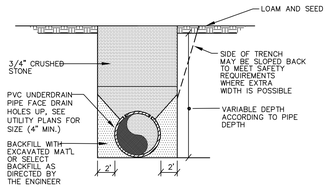
PROJECT NO.	SCALE
12233	NTS

SHEET C62 OF C75

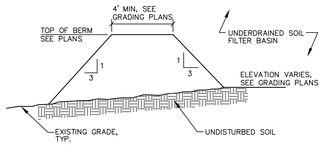
12233D.dwg, TAB:D1



STONE CHECK DAM
NOT TO SCALE



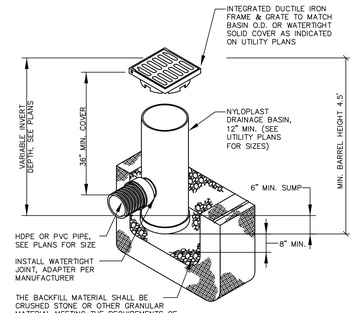
GROUNDWATER RELIEF DRAIN DETAIL
NOT TO SCALE



EMBANKMENT CONSTRUCTION:

1. CONSTRUCTION MATERIAL SHALL MEET M.D.O.T. SPECIFICATION 703.18.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAX. DENSITY.
3. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

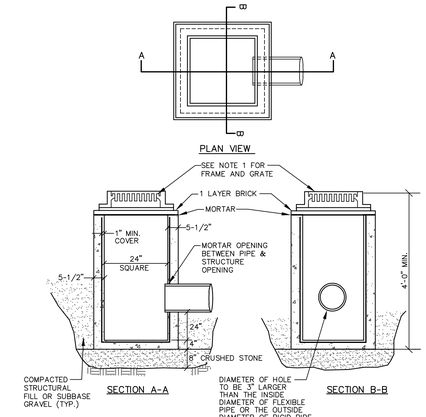
BERM DETAIL
NOT TO SCALE



NOTES:

1. INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

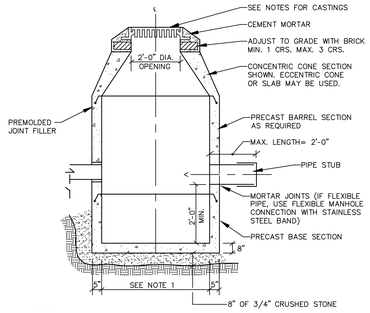
TYP. NYLOPLAST FIELD INLET
NOT TO SCALE



NOTES:

1. FRAME SHALL BE FOR 24" SQUARE GRATE, EAST JORDAN FOUNDRY 5250, OR APPROVED EQUAL.
2. ENTIRE CATCH BASIN WITH EXCEPTION OF LEVELING BRICK FRAME AND GRATE TO BE PRECAST AS SINGLE PORTLAND CEMENT CONCRETE UNIT.

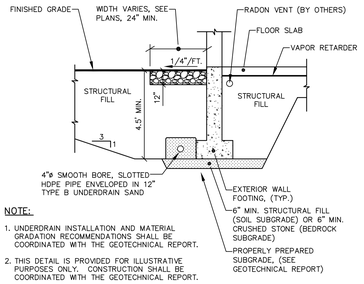
"TYPE F" CATCH BASIN
NOT TO SCALE



NOTES:

1. 4'-0" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS.
2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
3. PIPE SIZES AND INVERTS AS NOTED ON GRADING AND UTILITY PLANS.
4. CATCH BASIN SET IN PAVED AREAS: FRAME AND GRATE SHALL BE EAST JORDAN FOUNDRY 5250, OR APPROVED EQUAL.
5. CATCH BASIN SET IN LANDSCAPED AREAS: FRAME SHALL BE V-3600-2 AND GRATE SHALL BE V-3800-2 BY EAST JORDAN FOUNDRY, OR APPROVED EQUAL.
6. DOUBLE GRATE CATCH BASIN FRAME AND GRATE SHALL BE EAST JORDAN FOUNDRY 5236, OR APPROVED EQUAL.

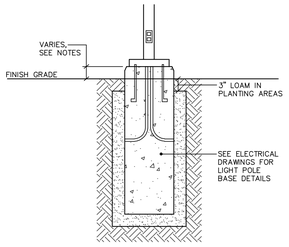
TYPICAL DRAINAGE MANHOLE/CATCH BASIN
NOT TO SCALE



NOTE:

1. UNDERDRAIN INSTALLATION AND MATERIAL GRADATION RECOMMENDATIONS SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.
2. THIS DETAIL IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONSTRUCTION SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.

STONE DRIP STRIP DETAIL
NOT TO SCALE

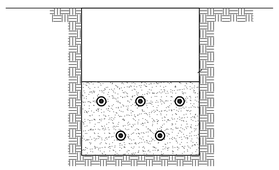


SECTION

NOTES:

1. 3" HEIGHT IN LANDSCAPE AREAS WHEN LIGHT POLE BASE IS 3-FT. OR MORE FROM PAVED AREAS. (SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING POLE BASE DETAIL.)
2. 30" IN PAVED AREAS AND LANDSCAPED AREAS WHERE LIGHT POLE BASE IS WITHIN 3-FT. OF PAVED AREAS. (SEE ELECTRICAL DRAWINGS FOR RAISED SITE LIGHTING POLE BASE DETAIL.)

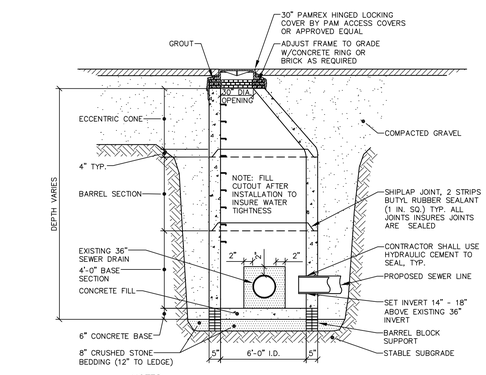
LIGHT POLE BASE HEIGHT
NOT TO SCALE



NOTE:

1. THIS DETAIL IS PROVIDED FOR ILLUSTRATIVE PURPOSES. SEE ELECTRICAL PLANS FOR DUCT BANK DETAILS.

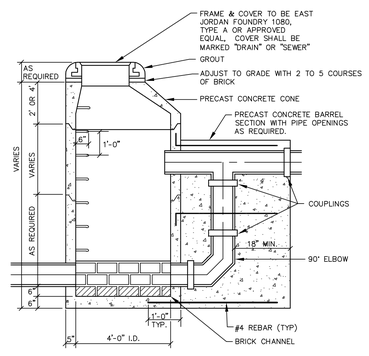
TYPICAL UNDERGROUND CABLE INSTALLATION
NOT TO SCALE



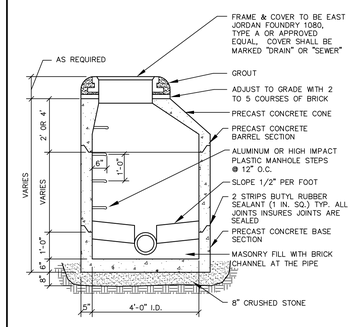
NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL BY ENGINEER.
2. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
3. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN PER LINEAR FT. IN ALL SECTION AND SHALL BE PLACES IN THE CENTER THIRD OF THE WALL.
4. THE TONGUE OF THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SY. IN. PER LINEAR FT.
5. EACH PRECAST SECTION TO HAVE LIFTING HOLES CAST IN.
6. COORDINATE CONNECTION WITH SANFORD SEWERAGE DISTRICT MINIMUM 7 DAYS PRIOR TO WORK.

SEWER MANHOLE DOGHOUSE STRUCTURE
NOT TO SCALE

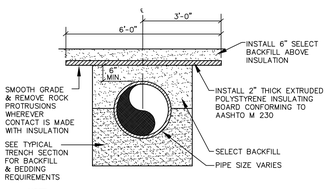


SANITARY DROP MANHOLE
NOT TO SCALE



NOTE:
PIPE CONNECTIONS SHALL BE WATERTIGHT FLEXIBLE BOOT CONNECTORS PROVIDES LEAKPROOF CONNECTION

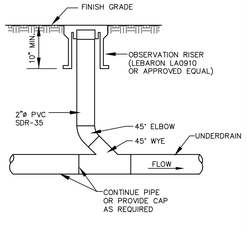
PRECAST MANHOLE
NOT TO SCALE



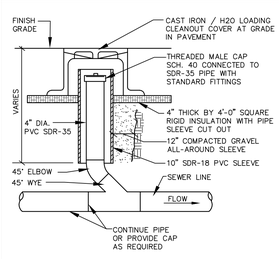
NOTE:

1. INSTALL INSULATION ABOVE PIPE WHERE SHOWN ON THE UTILITY PLANS.

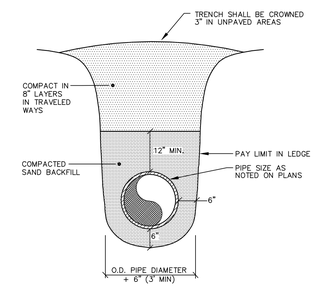
PIPE INSULATION DETAIL
NOT TO SCALE



CLEANOUT IN GRASSED AREAS
NOT TO SCALE

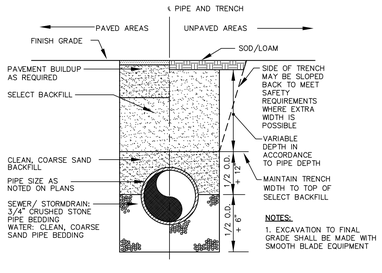


SEWER CLEANOUT IN PAVEMENT AREAS
NOT TO SCALE



NOTE: CLAY DAMS WILL BE INSTALLED IN LEDGE TRENCHES EVERY 100' IN AREAS OF MORE THAN 3% SLOPE

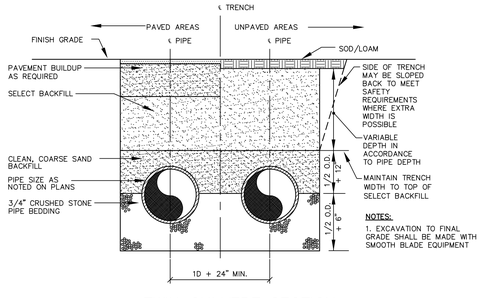
SECTION THROUGH LEDGE TRENCH
NOT TO SCALE



NOTES:

1. EXCAVATION TO FINAL GRADE SHALL BE MADE WITH SMOOTH BLADE EQUIPMENT

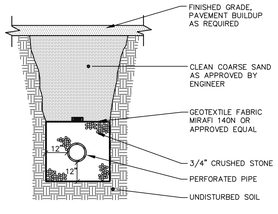
TYPICAL TRENCH SECTION
NOT TO SCALE



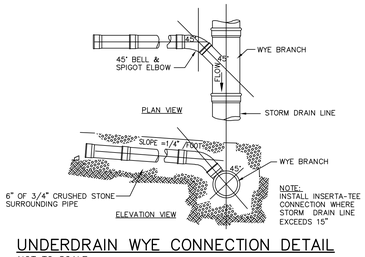
NOTES:

1. EXCAVATION TO FINAL GRADE SHALL BE MADE WITH SMOOTH BLADE EQUIPMENT

TWIN CULVERT SECTION
NOT TO SCALE



TYP. PERFORATED UNDERDRAIN TRENCH SECTION
NOT TO SCALE



UNDERDRAIN WYE CONNECTION DETAIL
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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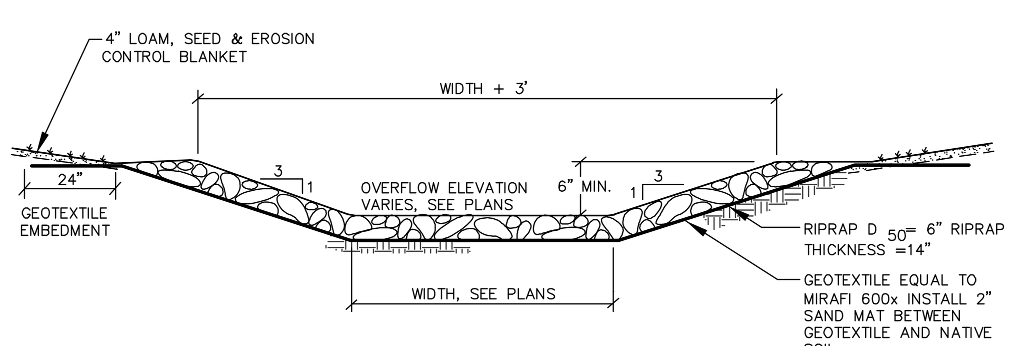
DETAILS
OF: SANFORD HIGH SCHOOL & TECHNICAL CENTER
FOR: SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

SHEETc630FC75

122330.dwg, TAB:D2



EMBANKMENT CONSTRUCTION
1. CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATION.
2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
3. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS
4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL PLAN.

NOTES:
1. RIPRAP WIDTH SHALL BE MINIMUM 13 FEET WIDE.
2. CONSTRUCTION WITH LEVEL CREST AT OVERFLOW ELEVATION.
3. THE OVERFLOW ELEVATION VARIES FOR EACH UNDERDRAINED SOIL FILTER. SEE PLANS FOR THE APPROPRIATE OVERFLOW ELEVATION & WIDTH.

OVERFLOW SPILLWAY SECTION
NOT TO SCALE

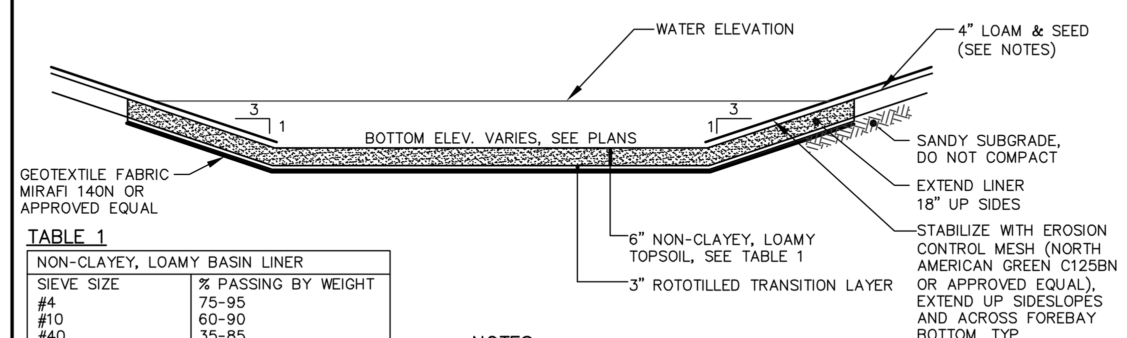


TABLE 1

NON-CLAYEY, LOAMY BASIN LINER	
SIEVE SIZE	% PASSING BY WEIGHT
#4	75-95
#10	60-90
#40	35-85
#200	20-70
CLAY FRACTION	0-2

NOTES - ALL SPECIAL STRUCTURES:
1. CONTRACTOR SHALL USE SMOOTH BUCKET TO EXCAVATE BOTTOM OF TRENCH TO SUBGRADE ELEVATIONS.
2. EXCAVATION, SHORING, DEWATERING, STONE BEDDING, COMMON BORROW, STRUCTURAL FILL, ROADWAY BASE AND SUBBASE SHALL BE INCIDENTAL TO WETLAND OUTLET STRUCTURE INSTALLATION (REFER TO CONTRACT SPECIFICATIONS).
3. PRECAST STRUCTURES SHALL HAVE WALL THICKNESS FOR THE ROOF, FLOOR AND SIDEWALLS AS REQUIRED FOR THE LOADING CONDITIONS TO ACCOMMODATE ALL APPURTENANCES. PRECAST CONCRETE SUPPLIER IS REQUIRED TO PROVIDE CALCULATIONS AND A STRUCTURAL DESIGN CERTIFIED BY A MAINE LICENSED PE.
4. PROVIDE Z-LOK A-LOK RUBBER BOOT OR APPROVED EQUAL.
5. INSTALL MIN. 8" OF 3/4" CRUSHED STONE BEDDING.

NOTES:
1. STAFF GAUGES, MARKED RODS, OR SIMILAR INSTRUMENTATION SHALL BE PROVIDED AT EACH INFILTRATION BASIN FOR MEASUREMENT OF ACCUMULATED SEDIMENT AND TO DETERMINE DRAINAGE TIME AFTER STORM EVENTS.

INFILTRATION BASIN CONSTRUCTION OVERSIGHT NOTES:
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY REQUIRED TESTING DATA OR SIEVE ANALYSIS DATA

1. CONSTRUCTION SEQUENCE: THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.
2. COMPACTION OF LINER: COMPACTION OF THE LINER SHALL BE AVOIDED.
3. CONSTRUCTION OVERSIGHT: INSPECTIONS BY A PROFESSIONAL ENGINEER WILL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE PROPOSED SOIL LINER MATERIAL, TOPSOIL CAP, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE INFILTRATION BASIN.

UPON INSTALLATION OF THE LINER, THE CONTRACTOR SHALL PERFORM PERMEABILITY TESTS ON THE BOTTOM AND SIDES OF EACH INFILTRATION BASIN TO VERIFY A PERMEABILITY OF NO GREATER THAN 2.41 IN./HR. THE INSPECTING PROFESSIONAL ENGINEER SHALL SUBMIT TEST RESULTS TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

INFILTRATION BASIN DETAIL
NOT TO SCALE

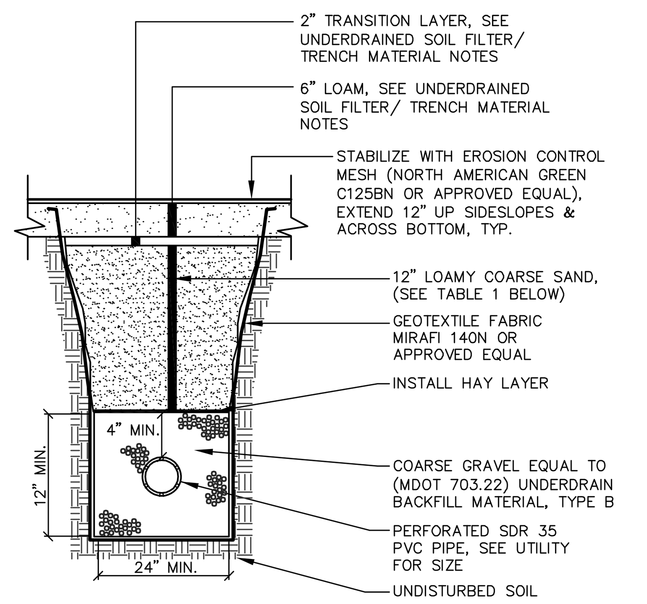


TABLE 1

LOAMY COARSE SAND LAYER	
SIEVE SIZE	% PASSING BY WEIGHT
#10	85-100
#20	70-100
#60	15-50
#200	8-15

NOTE: SUPERHUMUS OR EQUIVALENT.

NOTE:
UPON INSTALLATION OF THE 6" LOAM LAYER, THE CONTRACTOR SHALL PERFORM PERMEABILITY TESTS ON THE BOTTOM AND SIDES OF EACH TRENCH TO VERIFY A PERMEABILITY OF NO GREATER THAN 2.41 IN./HR. THE INSPECTING PROFESSIONAL ENGINEER SHALL SUBMIT TEST RESULTS TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

UNDERDRAINED SOIL FILTER TRENCH
NOT TO SCALE

UNDERDRAINED SOIL FILTER/TRENCH CONSTRUCTION OVERSIGHT NOTES:
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE UNDERDRAIN. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE UNDERDRAIN'S CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY TESTING DATA OR SIEVE ANALYSIS DATA OF EVERY MINERAL SOIL AND SOIL MEDIA SPECIFIED IN THE PLANS AND USED ON SITE.

1. CONSTRUCTION SEQUENCE: THE UNDERDRAIN AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE UNDERDRAIN HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.
2. COMPACTION OF UNDERDRAIN: UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST 2 LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
3. CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:

A. FOR FIRST UNDERDRAIN CONSTRUCTED, AFTER UNDERDRAIN PIPE IS INSTALLED AT GRADE AND BUT NOT BACKFILLED. AFTER THE UNDERDRAIN PIPE IS COMPLETELY BACKFILLED AND BEFORE PLACEMENT OF LOAMY COARSE SAND LAYER.
B. AFTER THE LOAMY COARSE SAND LAYER AND SOD/ LOAM HAS BEEN INSTALLED.
C. AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS.
D. ALL MATERIAL USED FOR THE CONSTRUCTION OF THE UNDERDRAIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY.

TESTING AND SUBMITTALS
1. THE UNDERDRAIN SHALL CONSIST OF THE TOP THREE LAYERS IDENTIFIED AS LOAMY TOPSOIL, 2" TRANSITION AND 12" LOAMY COARSE SAND. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE FOR EACH COMPONENT OF THE UNDERDRAIN AND SUBMIT GRADATIONS FOR THE UNDERDRAIN MATERIALS TO THE ENGINEER FOR APPROVAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.

UNDERDRAIN SOIL FILTER/ TRENCH MATERIAL NOTES:
1. ONSITE LOAM SHALL BE SCREENED FOR STONES LARGER THAN 1 INCH AND BE TESTED TO VERIFY THERE IS LESS THAN 2% CLAY CONTENT AND 5-8% ORGANIC MATTER. IF ONSITE LOAM DOES NOT MEET REQUIREMENTS, THEN LOAM FROM OFFSITE SHALL BE A NON-CLAYEY, LOAMY TOPSOIL SUCH AS A USDA SANDY LOAM TOPSOIL WITH 5-8% HUMIFIED ORGANIC MATTER AND 3-10% CLAY CONTENT.
2. 2" TRANSITION LAYER OF THE LOAM/SOD LAYER SHALL BE ROTOTILLED INTO THE LOAMY COARSE SAND LAYER BELOW.
3. THE LOAMY COARSE SAND LAYER SHALL BE TESTED IN ACCORDANCE WITH THE TESTING AND SUBMITTALS NOTES ABOVE.
4. A LAYER OF HAY SHALL BE PLACED BETWEEN 12" LOAMY COARSE LAYER AND UNDERDRAIN STONE BEDDING TO PREVENT SUBSIDENCE OR PLUGGING OF THE SAND/GRAVEL/STONE LAYER AND/OR PIPE.
5. UNDERDRAIN STONE BEDDING MATERIAL MUST CONFORM TO THE MDOT SPECIFICATION 703.22 UNDERDRAIN TYPE B FOR UNDERDRAIN BACKFILL MATERIAL. THE BEDDING MATERIAL MUST HAVE NO MORE THAN 5% PASSING THE 200 SIEVE.
6. MATERIAL LAYERS ABOVE THE UNDERDRAIN BACKFILL LAYER SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS CAN BE MIXED WITHIN THE FILTER. DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO AVOID COMPACTION OF BOTH THE GRAVEL AND SOIL FILTER.
7. OVER COMPACTION OF UNDERDRAIN MATERIAL SHALL BE AVOIDED. IF OVER COMPACTION OCCURS, ROTOTILL AGAIN PRIOR TO SEEDING OR SODDING.

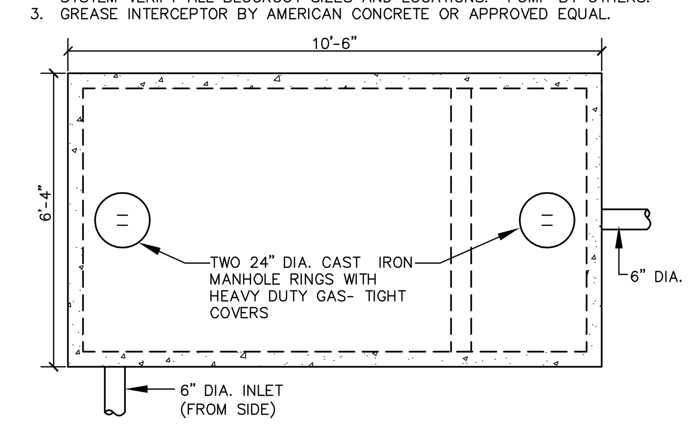
TABLE 1: Underdrained Soil Filter Construction Table

Underdrained Soil Filter #	Filterbed Area (ft2)	EL. A	EL. B	EL. C	INV. A	INV. B	Liner Material
UDSF-1	2,633.0	240.60	241.80	241.83	238.27	238.27	30-MIL. LLDPE/ PVC
UDSF-2	1,273.0	244.00	245.00	245.25	241.67	241.00	30-MIL. LLDPE/ PVC
UDSF-3	1,746.0	243.25	244.50	N/A	240.92	240.92	30-MIL. LLDPE/ PVC
UDSF-4	2,994.0	243.00	244.00	N/A	240.67	240.09	30-MIL. LLDPE/ PVC
UDSF-5	3,146.0	239.50	241.00	241.00	237.17	237.17	30-MIL. LLDPE/ PVC
UDSF-6	1,813.0	244.30	245.50	N/A	241.97	241.97	30-MIL. LLDPE/ PVC
UDSF-7	2,158.0	253.25	254.50	255.00	250.92	250.30	30-MIL. LLDPE/ PVC
UDSF-8	418.0	254.00	255.00	255.00	251.67	251.25	30-MIL. LLDPE/ PVC
UDSF-9	727.0	245.00	246.00	N/A	242.67	242.00	30-MIL. LLDPE/ PVC
UDSF-10	1,172.0	244.50	246.00	N/A	242.17	241.82	30-MIL. LLDPE/ PVC
UDSF-11	3,000.0	241.00	242.00	244.00	238.67	238.67	30-MIL. LLDPE/ PVC
UDSF-12	750.0	261.00	262.00	N/A	258.67	258.67	30-MIL. LLDPE/ PVC
UDSF-13	808.0	263.00	264.25	N/A	260.67	260.22	30-MIL. LLDPE/ PVC
UDSF-14	2,025.0	251.75	252.75	N/A	249.42	249.42	30-MIL. LLDPE/ PVC

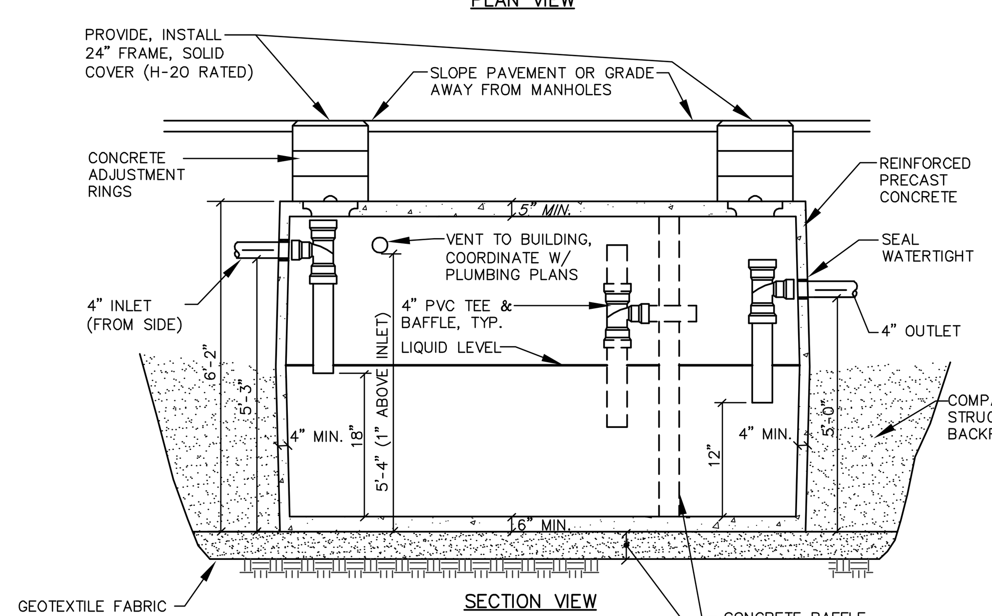
STRUCTURAL NOTES:
1. CONCRETE:
a) 28 DAY COMPRESSIVE STRENGTH F'C= 4,000 PSI.
b) CEMENT TO BE TYPE III PER ASTM C-150
c) 4%-6% ENTRAINED AIR
2. STRUCTURAL REINFORCEMENT:
a) REINFORCED FOR H-20 LOADING
3. BAR CLEARANCE/PROTECTION:
a) 1 1/2" CLR. (UNLESS OTHERWISE NOTED

INSTALLATION REQUIREMENTS:
1. TO BE INSTALLED ON MIN. 8" THICK BED OF CRUSHED 3/4" STONE.
2. USE 1" CON-SEAL 102 AT JOINTS.
3. JOINT GAPS LESS THAN 0.5", GROUT TO FILL VOIDS.

GENERAL NOTES:
1. ALL BAFFLES AND WEIRS TO BE PRECAST CONCRETE.
2. CONTRACTOR TO: SUPPLY AND INSTALL ALL PIPING & SAMPLING TEES GROUT IN ALL PIPES FILL WITH CLEAN WATER PRIOR TO "START-UP" OF SYSTEM VERIFY ALL BLOCKOUT SIZES AND LOCATIONS. PUMP BY OTHERS.
3. GREASE INTERCEPTOR BY AMERICAN CONCRETE OR APPROVED EQUAL.



PLAN VIEW



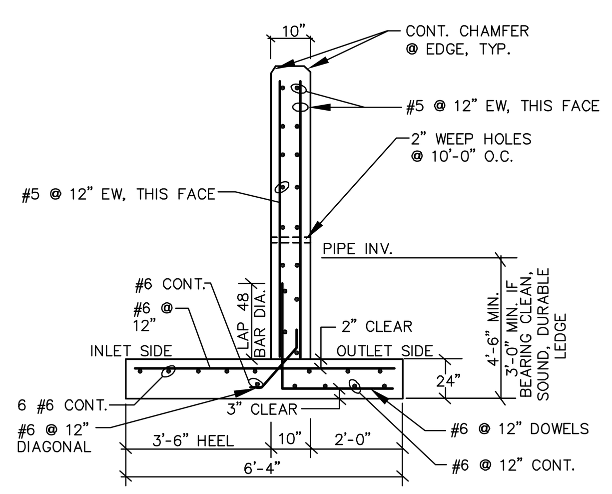
SECTION VIEW

CAPACITY	LENGTH	WIDTH	HEIGHT	INLET	OUTLET
2,000 GAL.	10'-6"	6'-4"	6'-2"	5'-3"	5'-0"

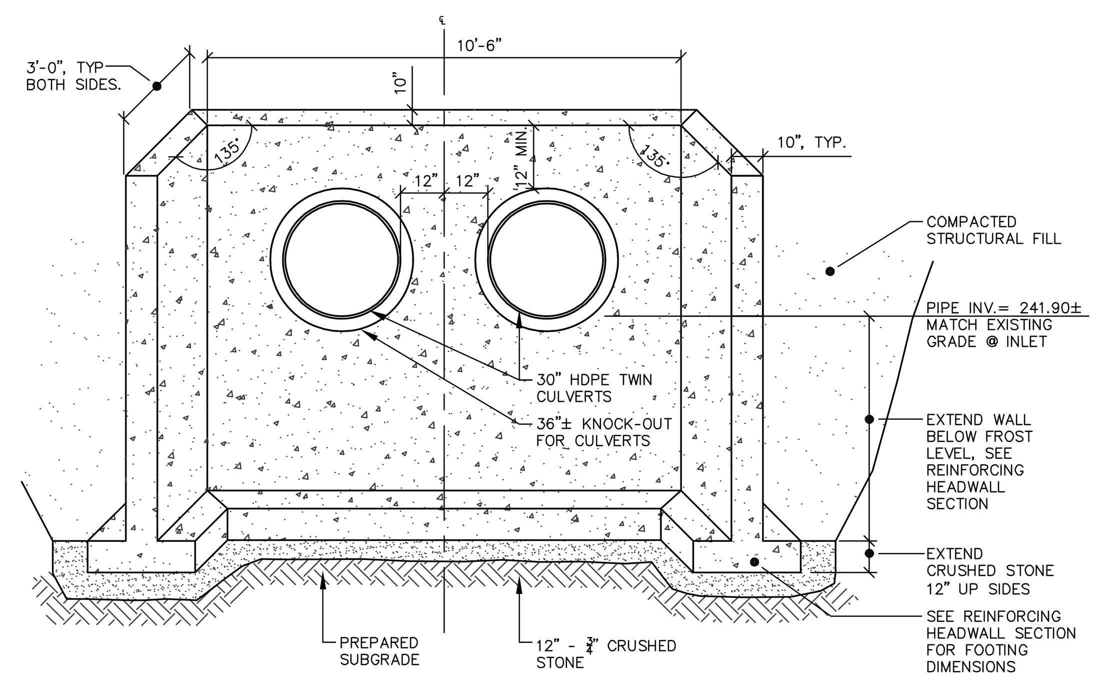
NOTES:
1. COAT INTERIOR OF TANK WITH EPOXY SEALER
2. ALL CONCRETE HAS A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
3. SHALL BE DESIGNED FOR H-20 LOADINGS.
4. THE TONGUE AND GROOVE CENTER SEAM IS SEALED WITH A BUTYL SEALANT.
5. THE PVC TEE BAFFLES FOR THIS TANK CAN BE MOVED TO ANY OF THE (3) INLETS OR OUTLETS.
6. POLYLOK PIPE SEALS STANDARD AT ALL PIPE PENETRATIONS.
7. DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE INTERCEPTOR WITH ADEQUATE STRUCTURAL STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION.
8. COAT EXTERIOR OF CONCRETE WITH BITUMASTIC SEALANT.
9. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
10. SEE UTILITY PLANS FOR INLET AND OUTLET PIPE SIZES AND INVERTS.
11. GREASE TRAP TO BE 2,000 GAL. DOUBLE COMPARTMENT AS MANUFACTURED BY AMERICAN CONCRETE INDUSTRIES OR APPROVED EQUAL.

TYP. 2,000 GAL. GREASE INTERCEPTOR
NOT TO SCALE

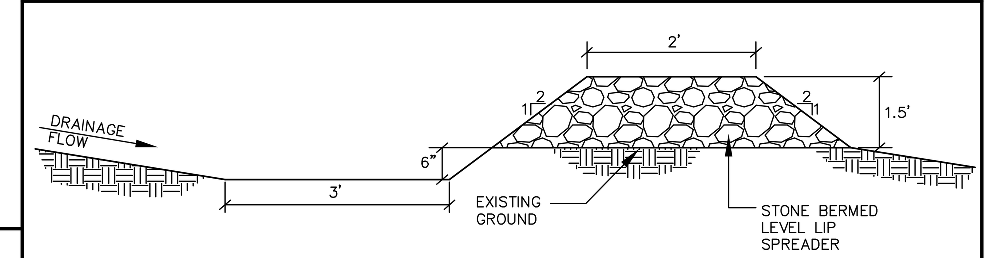
HEADWALL NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR STRUCTURAL AND FOOTING DESIGN AND ASSOCIATED CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER IN THE STATE OF MAINE.
2. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
3. CONTRACTOR SHALL USE SMOOTH BUCKET TO EXCAVATE BOTTOM OF TRENCH TO SUBGRADE ELEVATIONS.
2. EXCAVATION, SHORING, DEWATERING, STONE BEDDING, COMMON BORROW, STRUCTURAL FILL, ROADWAY BASE AND SUBBASE SHALL BE INCIDENTAL TO HEADWALL INSTALLATION (REFER TO CONTRACT SPECIFICATIONS).
4. PIPE CONNECTIONS SHALL BE WATERTIGHT FLEXIBLE BOOT CONNECTORS PROVIDES LEAKPROOF CONNECTION. CONTRACTOR SHALL USE GASKET KIT EQUAL TO KOR-N-SEAL.
5. INSTALL MIN. 8" OF 3/4" CRUSHED STONE BEDDING.



REINFORCING HEADWALL SECTION



HEADWALL @ TWIN 30" CULVERTS
NOT TO SCALE



STONE SIZE	
SIEVE	% PASSING
12"	100
6"	84-100
3"	68-83
1"	42-55
NO. 4	8-12

NOTES:
1. CONSTRUCT AN EARTHEN BERM A MINIMUM 6" ABOVE LEVEL LIP THAT EXTENDS AROUND BACK AND SIDES SO THAT STORMWATER RUNOFF IS DIRECTED OVER THE LEVEL LIP.
2. SEE GRADING PLANS FOR LEVEL SPREADER LENGTH.

LEVEL SPREADER CONSTRUCTION OVERSIGHT NOTES:
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE LEVEL SPREADER HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEERS'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT.

BUFFERS - GENERAL

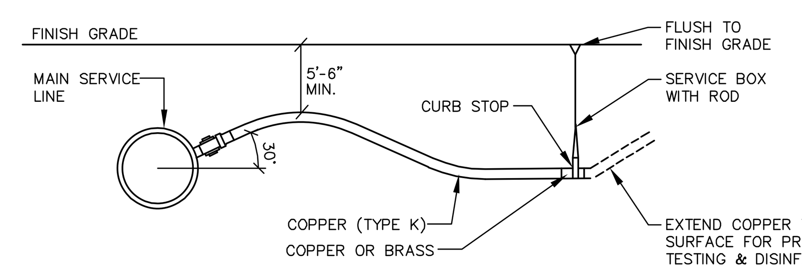
GENERAL FOREST USE MEANS THAT THE LAND MUST BE MAINTAINED WITH A FOREST COVER AND UNDISTURBED SOIL DUFF LAYER, GROUND COVER VEGETATION, AND UNDERSTORY VEGETATION. TIMBER MAY BE HARVESTED ON A SELECTIVE BASIS PROVIDED THAT NO MORE THAN 40% OF THE VOLUME IS HARVESTED WITHIN ANY 10 YEAR PERIOD.

STONE BERMED LEVEL LIP SPREADER
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH LEVEL SPREADERS CONSTRUCTION, STONE BERM MATERIAL AND PLACEMENT, SETTLING BASIN FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.

BASIC STANDARDS - EROSION CONTROL MEASURES

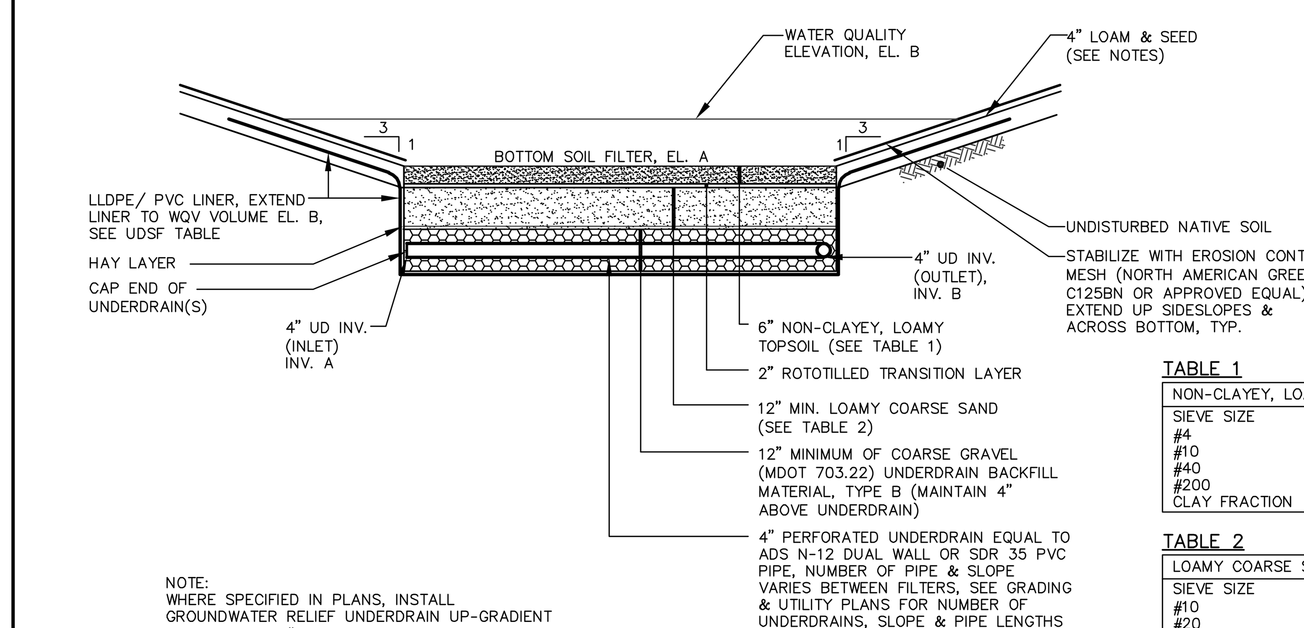
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.

STONE BERMED LEVEL LIP SPREADER
NOT TO SCALE



NOTE:
1. INSTALL PER SANFORD WATER DISTRICT STANDARDS.

CHLORINATION TAP
NOT TO SCALE



NOTE:
WHERE SPECIFIED IN PLANS, INSTALL GROUNDWATER RELIEF UNDERDRAIN UP-GRADIENT AND MINIMUM 6" BELOW UNDERDRAINS.

LONGITUDINAL SECTION

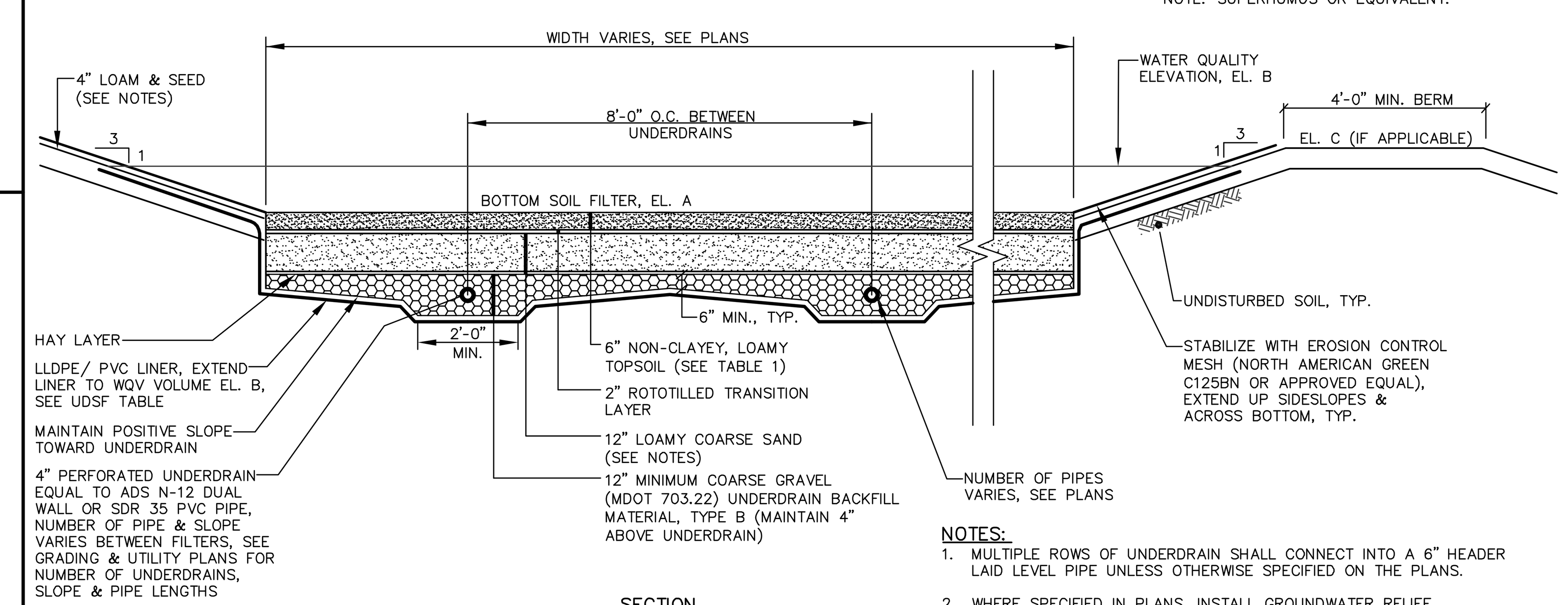
TABLE 1

NON-CLAYEY, LOAMY TOPSOIL	
SIEVE SIZE	% PASSING BY WEIGHT
#4	75-95
#10	60-90
#40	35-85
#200	20-70
CLAY FRACTION	0-2

TABLE 2

LOAMY COARSE SAND LAYER	
SIEVE SIZE	% PASSING BY WEIGHT
#10	85-100
#20	70-100
#60	15-50
#200	8-15
CLAY FRACTION	0-2

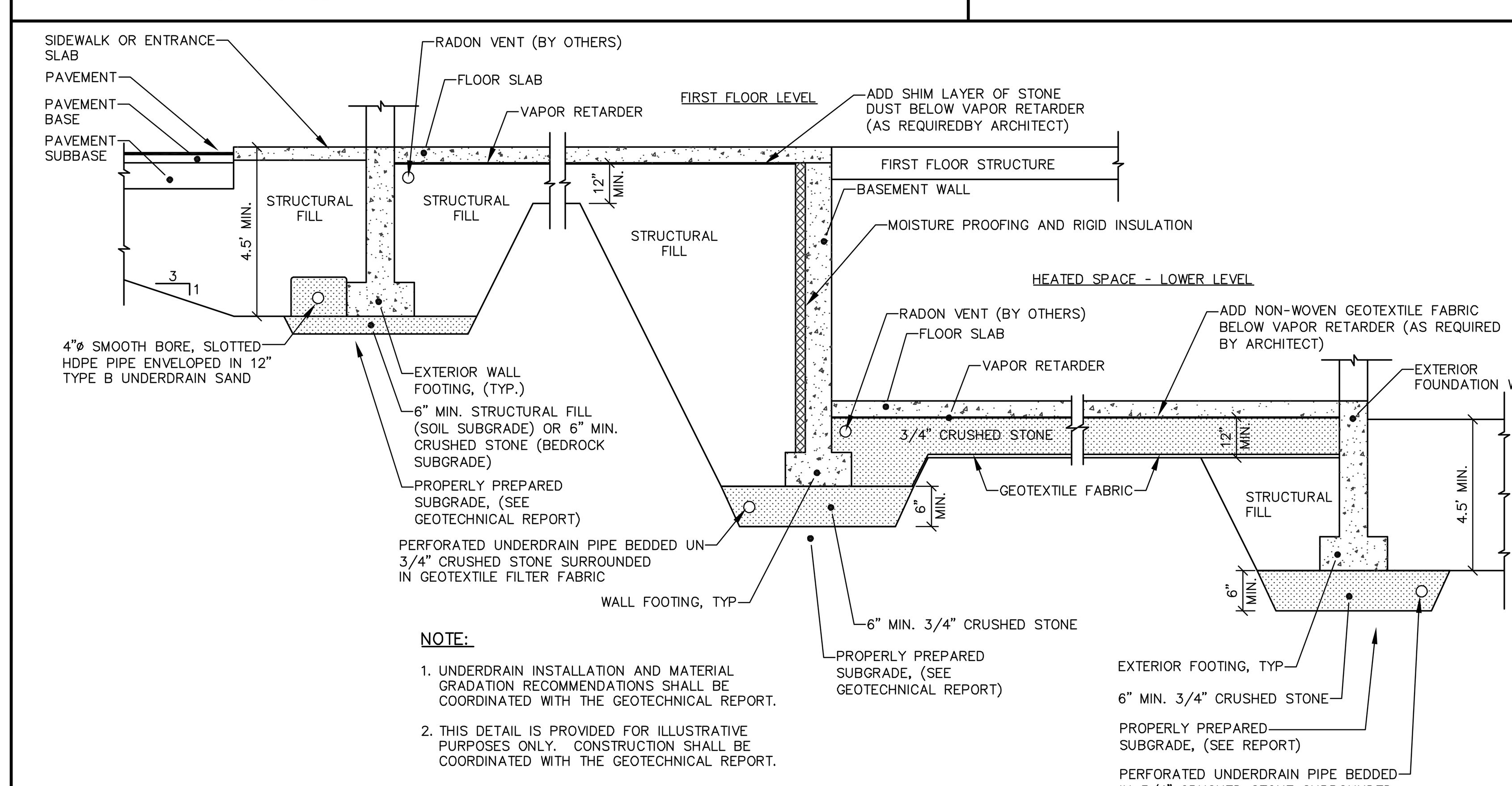
NOTE: SUPERHUMUS OR EQUIVALENT.



SECTION

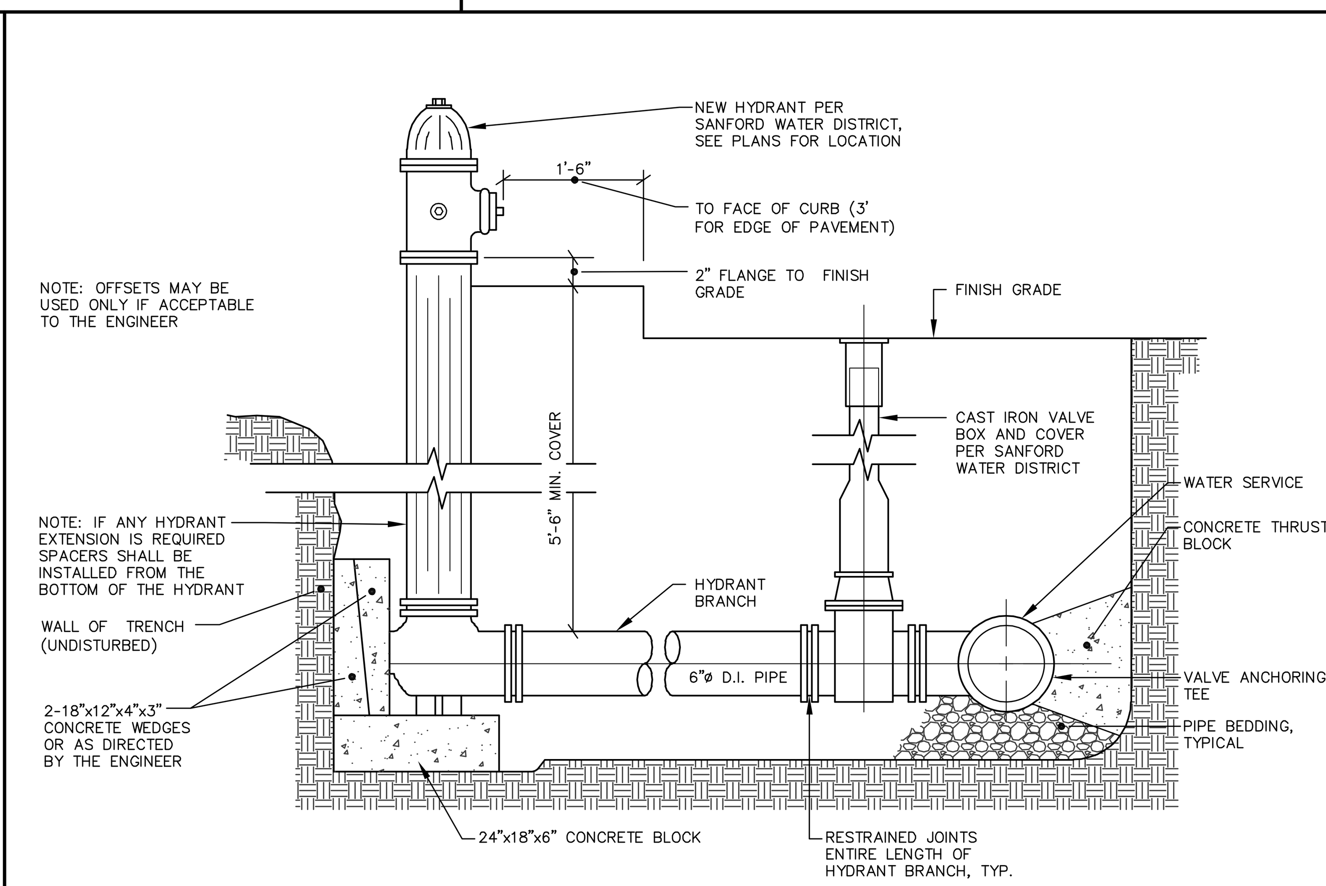
NOTES:
1. MULTIPLE ROWS OF UNDERDRAIN SHALL CONNECT INTO A 6" HEADER LAID LEVEL PIPE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2. WHERE SPECIFIED IN PLANS, INSTALL GROUNDWATER RELIEF UNDERDRAIN UP-GRADIENT AND MINIMUM 6" BELOW UNDERDRAINS.

UNDERDRAINED SOIL FILTER DETAIL
NOT TO SCALE

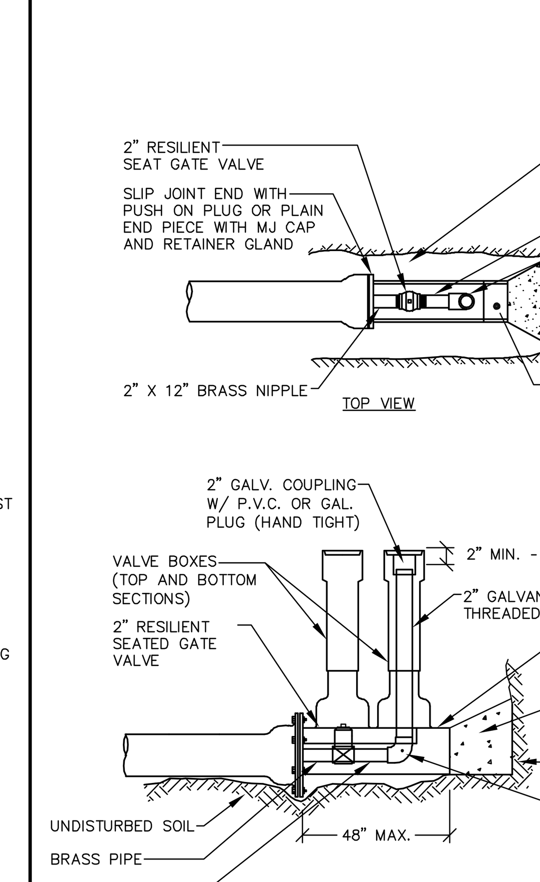


NOTE:
1. UNDERDRAIN INSTALLATION AND MATERIAL GRADATION RECOMMENDATIONS SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.
2. THIS DETAIL IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONSTRUCTION SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.

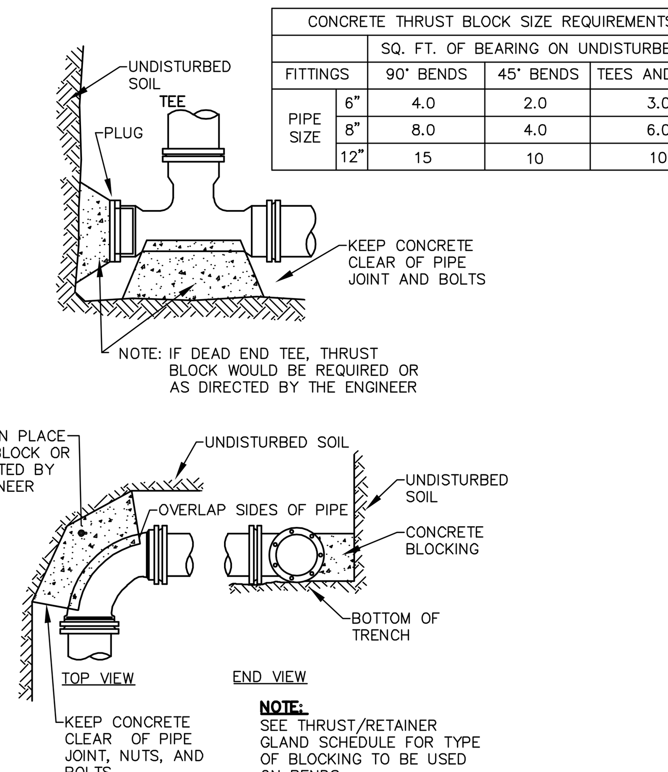
TYP. FOUNDATION DRAIN SECTION
NOT TO SCALE



TYP. HYDRANT BLOCKING & REPLACEMENT
NOT TO SCALE



2" BLOW-OFF DETAIL
NOT TO SCALE



CONCRETE THRUST BLOCK SIZE REQUIREMENTS				
		SQ. FT. OF BEARING ON UNDISTURBED SOIL		
FITTINGS		90° BENDS	45° BENDS	TEES AND PLUGS
PIPE SIZE	6"	4.0	2.0	3.0
	8"	8.0	4.0	6.0
	12"	15	10	10

NOTE:
SEE THRUST/RETAINER GLAND SCHEDULE FOR TYPE OF BLOCKING TO BE USED ON BENDS

TEE & BEND DETAIL
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

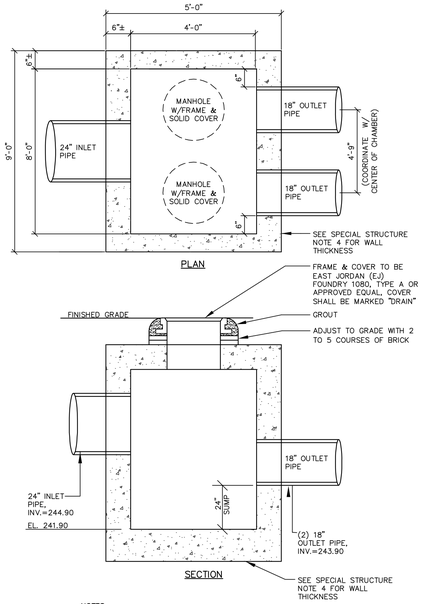
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

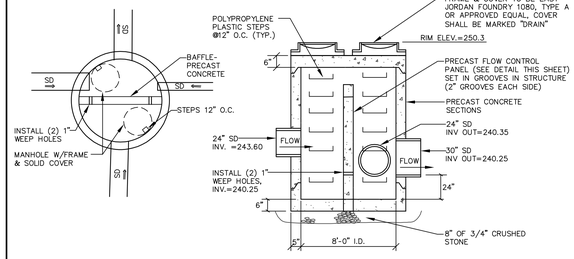
SHEET C64 OF C75

12233D.dwg, TAB:D3



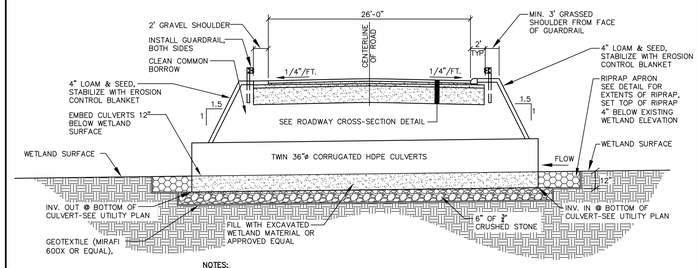
NOTES:
1. SUBMIT SHOP DRAWINGS FOR OWNER/ENGINEER APPROVAL.
2. STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.
3. SEE SPECIAL STRUCTURE NOTES, SHEET C64.

INLET CONTROL STRUCTURE
NOT TO SCALE



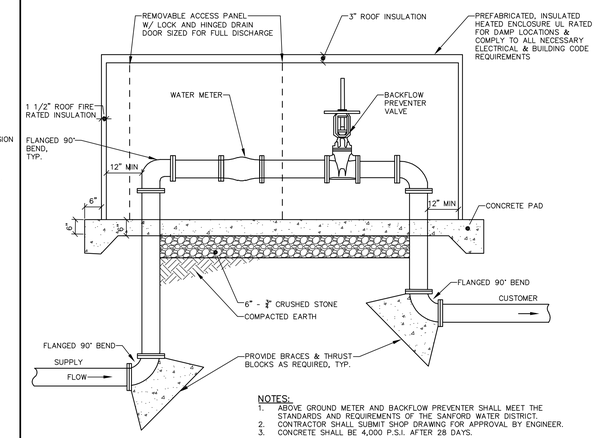
NOTES:
1. SUBMIT SHOP DRAWINGS FOR OWNER/ENGINEER APPROVAL.
2. STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.

OUTLET CONTROL STRUCTURE
NOT TO SCALE



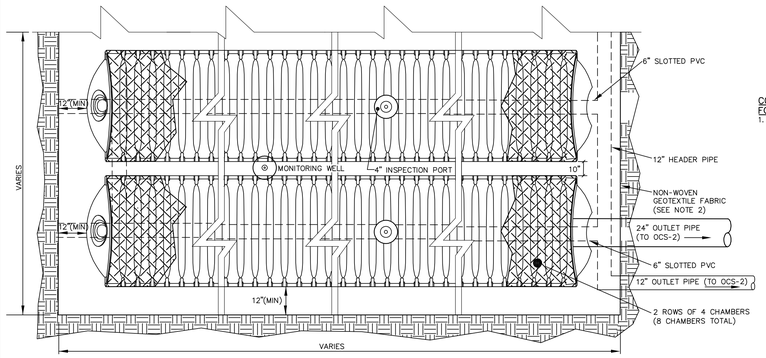
NOTES:
1. MINIMIZE IMPACT TO WETLAND AREA.
2. SEE UTILITY PLANS FOR UTILITY ROUTING IN ROADWAY.

WETLAND CROSSING-SECTION, STATION 20+16
NOT TO SCALE



NOTES:
1. ABOVE GROUND METER AND BACKFLOW PREVENTER SHALL MEET THE STANDARDS AND REQUIREMENTS OF THE SANFORD WATER DISTRICT.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL BY ENGINEER.
3. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.

ABOVE GROUND WATER METER & BACKFLOW PREVENTER
NOT TO SCALE



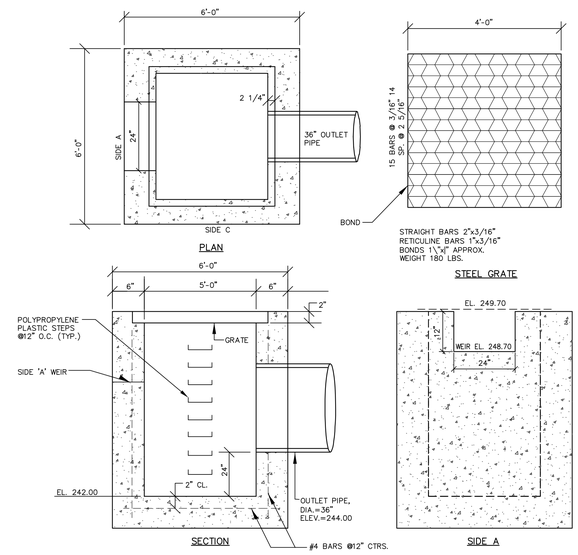
SUBSURFACE SAND FILTER PLAN VIEW

SUBSURFACE SAND FILTER NOTES:

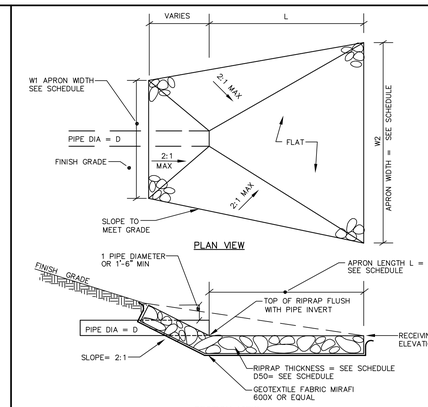
1. THE STORMWATER CHAMBER SHALL BE A STORMTECH SC-740 OR EQUIVALENT SUBSURFACE STORAGE CHAMBER APPROVED BY THE ENGINEER.
2. THE ENTIRE SUBSURFACE SYSTEM, INCLUDING THE CRUSHED STONE STORAGE VOLUME, THE FILTERMEDIA, AND UNDERDRAIN MATERIALS, SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC (MIRAFI 160N OR EQUIVALENT).
3. TWO STRIPS OF WOVEN GEOTEXTILE SHALL BE SINSTALLED BETWEEN THE BOTTOM OF THE ISOLATOR ROW CHAMBER AND ITS STONE FOUNDATION. THIS FABRIC TRAPS SEDIMENTS AND PROTECTS THE UNDERLYING CRUSHED STONE. A SECOND STRIP OF NON-WOVEN AASHTO M288 CLASS 2 GEOTEXTILE (MIRAFI 160N OR EQUIVALENT) SHALL BE DRAPED OVER THE ENTIRE LENGTH OF THE CHAMBERS. THIS FABRIC WILL ALSO TRAP SEDIMENTS AND PROVIDE SEPARATION BETWEEN THE CHAMBERS AND SURROUNDING STONE.
4. THE EMBEDMENT STONE SURROUNDING THE CHAMBERS SHALL BE A WASHED, ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 INCH AND 2 INCH. THE BOTTOM 6 INCH LAYER OF STONE THAT ACTS AS THE FOUNDATION BELOW THE CHAMBERS SHALL BE COMPACTED TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.
5. THE SAND FILTER MATERIAL SHALL BE A UNIFORM MIX, FREE OF STONES LARGER THAN 2 INCHES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS. THE MATERIAL SHALL MEET THE SPECIFICATIONS FOR MDOT AGGREGATE SAND (MDOT #703.01). HOWEVER, THIS AGGREGATE SAND SHALL BE MIXED WITH LOAM TO ACHIEVE A MATERIAL WITH BETWEEN 8% AND 10% PASSING THE #200 SIEVE. THE LOAM USED IN THIS MIXTURE SHALL HAVE LESS THAN 2% CLAY CONTENT. THIS 18 INCH LAYER OF SAND FILTRATION MEDIA SHALL BE PLACED TO ACHIEVE A LEVEL OF COMPACTION BETWEEN 92% AND 95% STANDARD PROCTOR DENSITY.

CONSTRUCTION OVERSIGHT NOTES FOR SUBSURFACE SAND FILER:

1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED SUBSURFACE CHAMBERS AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE INSTALLATION OF THE SUBGRADE, FILTER BED MATERIAL PLACEMENT, INSTALLATION OF EMBEDMENT STONE, ISOLATOR ROW AND CHAMBER, SURROUNDING STONE, FABRIC PLACEMENT AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO BACKFILL OVER CHAMBERS.



WETLAND OUTLET STRUCTURE
NOT TO SCALE

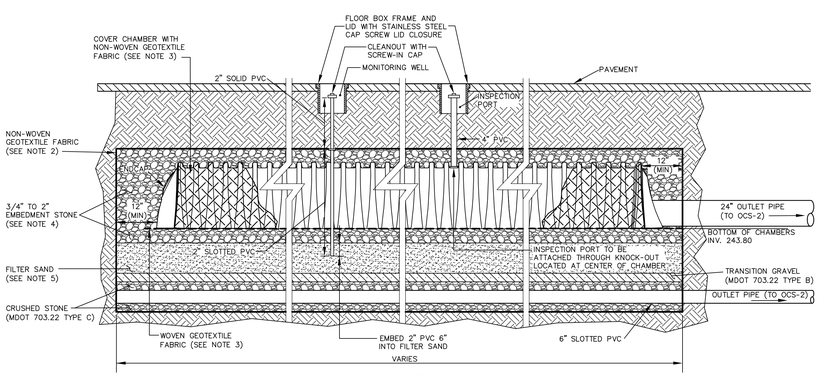


APRON SCHEDULE

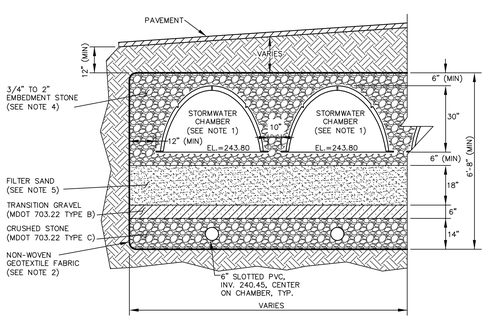
CULVERT DIAMETER - D (IN.)	APRON LENGTH - L (FT.)	WIDTH -W1 (FT)	WIDTH -W2 (FT)	RIPRAP D50 (IN.)	RIPRAP THICKNESS (IN.)
12	8	3	9	6	14
15	10	4	12	6	14
18	13	5	15	7	16
24	18	6	20	8	18
36	29	9	32	11	25
42	33	11	37	12	27
48	39	12	43	16	36

NOTES:
1. RIPRAP TO BE PROCESSED ANGULAR ROCK.
2. RIPRAP GRADATION SHALL BE A WELL GRADED MIX FROM ABOUT 1.5 TIMES D SIZE TO 25 PERCENT OF THE D SIZE.
3. THE RIPRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD.
4. STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12" ONTO THE GEOTEXTILE.
5. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH, UNIFORMLY SLOPED SURFACE.

RIPRAP APRON
NOT TO SCALE

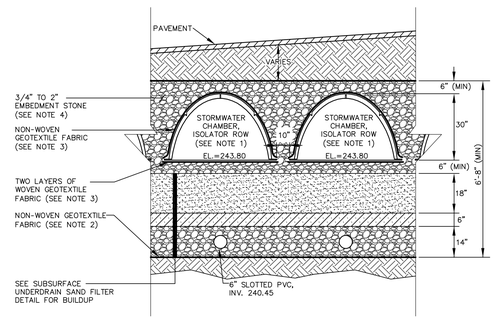


SUBSURFACE SAND FILTER ELEVATION VIEW

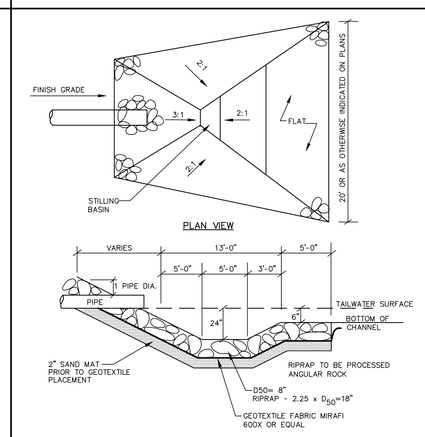


SUBSURFACE SAND FILTER SECTION

SUBSURFACE SAND FILTER
NOT TO SCALE



SUBSURFACE UNDERDRAINED SAND FILTER ISOLATOR ROW
NOT TO SCALE



STILLING BASIN
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	SUBMITTED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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SEBAGO TECHNICS
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75 John Roberts Rd. South Portland, ME 04106 Tel: 207-200-2100
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DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

SHEETc65OFc75

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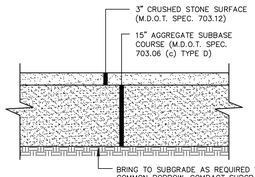
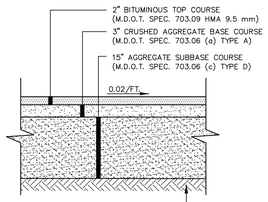


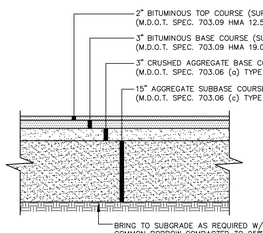
NOTES:
1. COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

TYPICAL GRAVEL SECTION
NOT TO SCALE



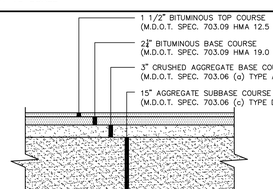
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

PEDESTRIAN PAVING
NOT TO SCALE



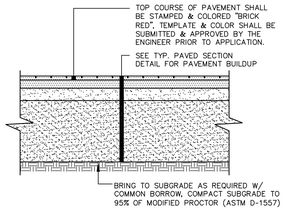
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE SITE PLANS FOR SUPERPAVE PAVEMENT AREAS.

SUPERPAVE HEAVY DUTY PAVEMENT AREA
NOT TO SCALE



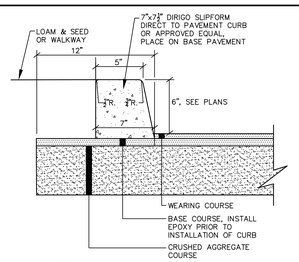
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

PARKING AREA PAVING SECTION
NOT TO SCALE



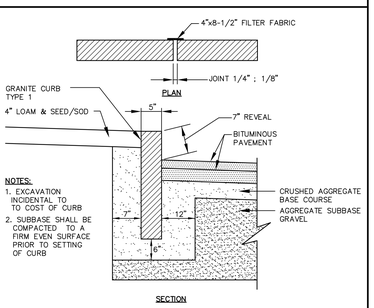
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SHALL BE COMPACTED TO 92% TO 97% OF ITS THEORETICAL MAXIMUM DENSITY AS DETERMINED BY ASTM D-2041.
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

TYP. STAMPED PAVEMENT SECTION
NOT TO SCALE



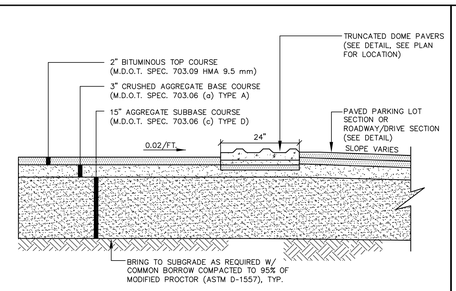
NOTES:
1. SEE TYPICAL ACCESS DRIVE SECTION FOR ROADWAY MATERIAL SPECIFICATIONS AND DEPTHS.
2. 6' TIPDOWNS SHALL BE PROVIDED AS SHOWN ON PLANS.

SLIPFORM CURB SECTION
NOT TO SCALE



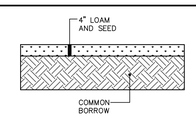
NOTES:
1. EXCAVATION INCIDENTAL TO COST OF CURB
2. SUBBASE SHALL BE COMPACTED TO A FIRM EVEN SURFACE PRIOR TO SETTING OF CURB

VERTICAL GRANITE CURB
NOT TO SCALE

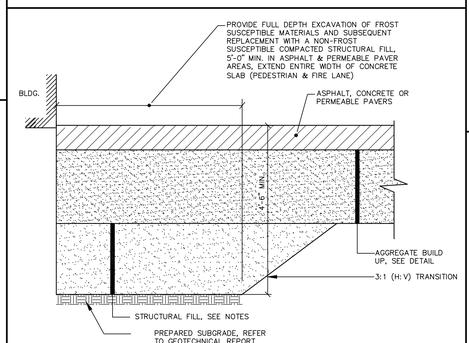


NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

SIDEWALK @ TRUNCATED DOMES
NOT TO SCALE

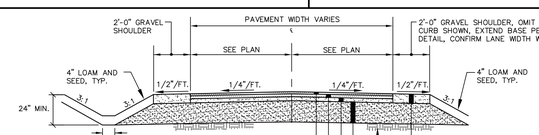


LOAM AND SEED SECTION
NOT TO SCALE



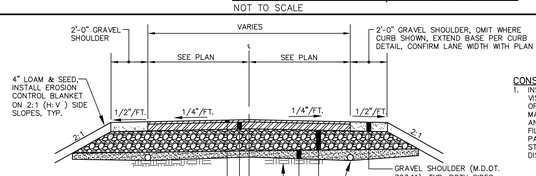
NOTES:
1. REFER TO DETAILS FOR PAVEMENT, CONCRETE AND PERMEABLE PAVER SECTIONS.
2. PROVIDE FULL DEPTH EXCAVATION OF FROST SUSCEPTIBLE MATERIALS AND SUBSEQUENT REPLACEMENT WITH A NON-FROST SUSCEPTIBLE COMPACTED STRUCTURAL FILL. STRUCTURAL FILL DEPTH SHALL BE MIN. 4.5' FROM FINISHED GRADE. REFER TO GEOTECHNICAL REPORT.

PAVEMENT SECTION @ BUILDING
NOT TO SCALE



NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE GRADING PLANS FOR ROADSIDE DITCH LOCATIONS.

TYPICAL ROADWAY/DRIVE SECTION
NOT TO SCALE



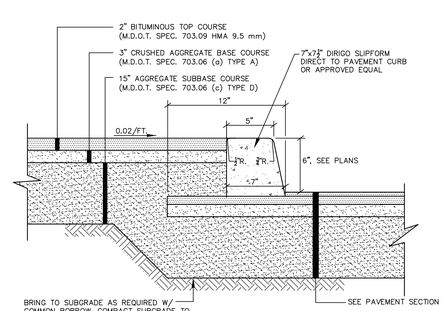
NOTES:
1. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
2. POROUS PAVEMENT SECTION SHALL BE CONSTRUCTED PER MDOT SPECIAL PROVISION 404 - ASPHALT TREATED PERMEABLE BASE.

CONSTRUCTION OVERSIGHT NOTES FOR POROUS PAVEMENT:
1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED PERVIOUS PAVEMENT AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE FILTER BED MATERIAL PLACEMENT AND COMPACTION, STORAGE COURSE, PAVEMENT ALTERNATIVE PLACEMENT, FABRIC PLACEMENT, AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL PAVEMENT COMPACTION

FILTER MATERIAL	
SIEVE SIZE	% PASSING BY WEIGHT
1 INCH	95-100
½ INCH	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5
RESERVOIR STONE	
SIEVE SIZE	% PASSING BY WEIGHT
2½ INCH	100
2 INCH	95-100
1 INCH	0-30
¾ INCH	0-5

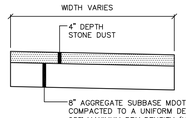
NOTE: PERCENT LOSS SHALL NOT EXCEED 25, WHEN TESTING IN ACCORDANCE TO AASHTO T96

POROUS PAVEMENT SECTION, STA. 41+20 TO STA. 54+63
NOT TO SCALE



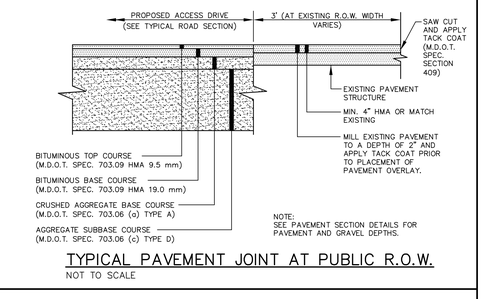
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

PEDESTRIAN WALK W/ CURB
NOT TO SCALE



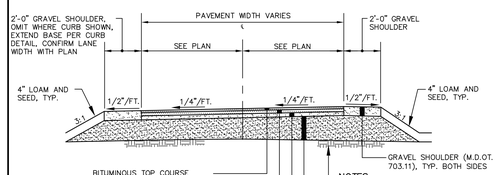
NOTE:
EXISTING SUBBASE MATERIAL MAY BE SUITABLE DUE TO ONSITE GRAVELS. VERIFY SUB-SURFRACE CONDITIONS AND NOTIFY ENGINEER.

STONE DUST FOOTPATH
NOT TO SCALE



NOTE:
SEE PAVEMENT SECTION DETAILS FOR PAVEMENT AND GRAVEL DEPTHS.

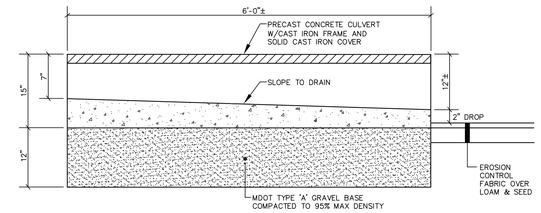
TYPICAL PAVEMENT JOINT AT PUBLIC R.O.W.
NOT TO SCALE



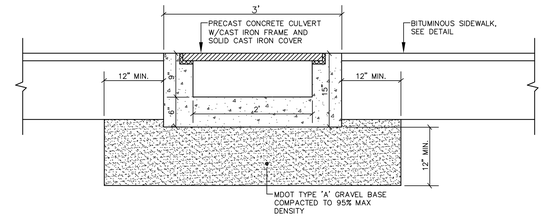
NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. HOT MIX ASPHALT SURFACE COARSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
5. SEE ROADWAY PAVING SECTION FOR BITUMINOUS AND AGGREGATE DEPTHS.

SUPERELEVATION TRANSITION TABLE					
SUPERELEVATION #	RUNOUT START (-2%-0%)	RUNOFF START/RUNOFF END (0%-2%)	FULL SUPERELEVATION (2%)	RUNOFF END/ RUNOFF START (2%-0%)	RUNOUT END (0%-2%)
1	3+20.00	3+55.00	3+90.00 - 10+55.00	10+90.00	11+25.00
2	12+62.96	12+97.96	12.02.96 - 18+51.91	18+86.91	19+21.91
3	31+77.36	32+12.36	32+47.36 - 39+30.00	39+65.00	40+00.00

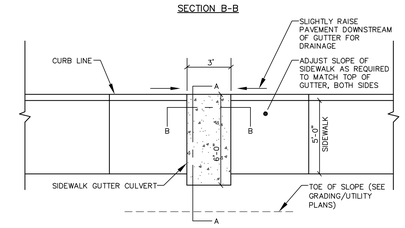
SUPERELEVATED ACCESS DRIVE SECTION
NOT TO SCALE



SECTION A-A



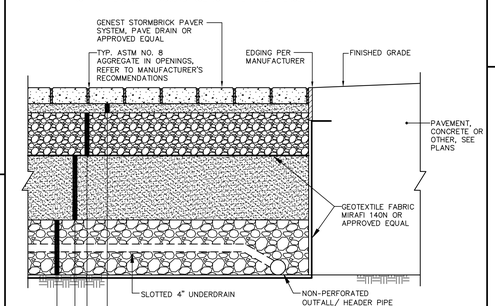
SECTION B-B



PLAN

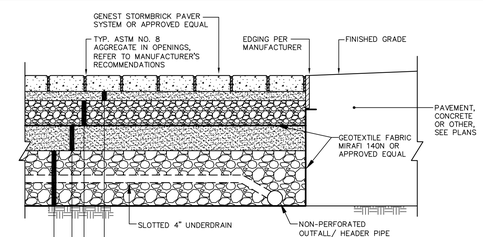
SIDEWALK GUTTER DETAIL (MAYFLOWER DR.)
NOT TO SCALE

CONSTRUCTION OVERSIGHT NOTES FOR PERMEABLE PAVERS:
1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED PERVIOUS PAVER SYSTEM AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE FILTER BED MATERIAL PLACEMENT AND COMPACTION, STORAGE COURSE, PAVEMENT ALTERNATIVE PLACEMENT, FABRIC PLACEMENT AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL PAVER PLACEMENT



NOTES:
1. PAVERS SHALL BE "STORMWATER BRICK" PERMEABLE INTERLOCKING CONCRETE PAVERS 4"x8"x3-1/8" BY GENEST CONCRETE, PAVEDRAIN BY ACF ENVIRONMENTAL OR APPROVED EQUAL.
2. SEE SPECS. FOR PAVER COLOR, INSTALLATION PATTERN AND LOCATION
3. THE SAND LAYER SHALL BE MINERAL SOIL WITH BETWEEN 4% AND 7% FINES PASSING THE #200 SIEVE.
4. BRING TO SUBGRADE AS REQUIRED WITH COMMON BORROW. COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR (ASTM D-1557). REFER TO GEOTECHNICAL REPORT.

PARKING PERMEABLE PAVERS SECTION
NOT TO SCALE



NOTES:
1. PAVERS SHALL BE "STORMWATER BRICK" PERMEABLE INTERLOCKING CONCRETE PAVERS 4"x8"x3-1/8" BY GENEST CONCRETE OR APPROVED EQUAL.
2. SEE SPECS. FOR PAVER COLOR, INSTALLATION PATTERN AND LOCATION
3. THE SAND LAYER SHALL BE MINERAL SOIL WITH BETWEEN 4% AND 7% FINES PASSING THE #200 SIEVE.
4. BRING TO SUBGRADE AS REQUIRED WITH COMMON BORROW. COMPACT SUBGRADE TO 95% OF MODIFIED PROCTOR (ASTM D-1557). REFER TO GEOTECHNICAL REPORT.

WALKWAY PERMEABLE PAVERS SECTION
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

DESIGNED	CHECKED
CAB	KSM

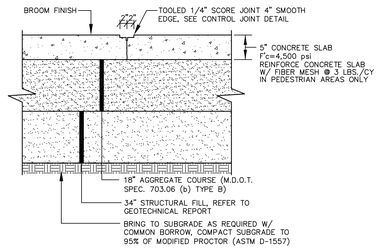
SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
79 John Roberts Rd. South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Lewiston, ME 04240 Tel: 207-783-3836

DETAILS OF: SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR: SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

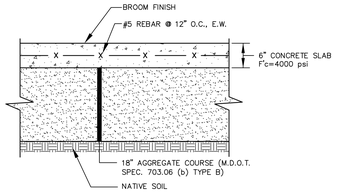
SHEETC660FC75

122330.dwg, TAB:05



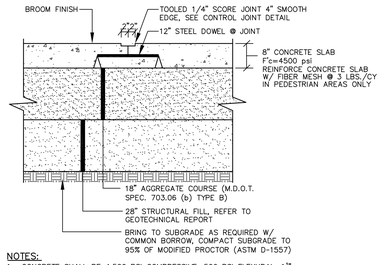
NOTES:
1. CONCRETE SHALL BE 4,500 PSI COMPRESSIVE, 500 PSI FLEXURAL, 1½" AGGREGATE, WITH 6% (±1%) AIR ENTRAINMENT.
2. PROVIDE CONTRACTION CONTROL JOINTS PER CONTROL JOINT DETAIL.
3. DETAIL FOR CONCRETE SECTION IN AREAS WITH HEAVY VEHICULAR TRAFFIC (FIRE TRUCKS).
4. PROVIDE FULL DEPTH EXCAVATION OF FROST SUSCEPTIBLE MATERIALS AND SUBSEQUENT REPLACEMENT WITH A NON-FROST SUSCEPTIBLE COMPACTED STRUCTURAL FILL. REFER TO GEOTECHNICAL REPORT.

CONCRETE SECTION (PEDESTRIAN AREAS)
NOT TO SCALE



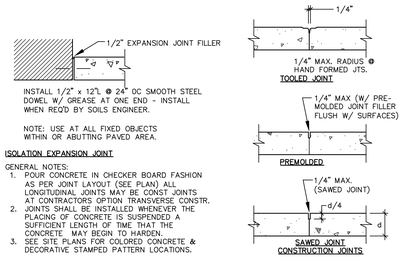
NOTE:
1. PROVIDE CONTRACTION CONTROL JOINTS EVERY 5'-0" IN EACH DIRECTION

TYPICAL CONCRETE SLAB SECTION
NOT TO SCALE



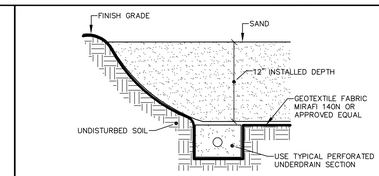
NOTES:
1. CONCRETE SHALL BE 4,500 PSI COMPRESSIVE, 500 PSI FLEXURAL, 1½" AGGREGATE, WITH 6% (±1%) AIR ENTRAINMENT.
2. PROVIDE CONTRACTION CONTROL JOINTS PER CONTROL JOINT DETAIL.
3. DETAIL FOR CONCRETE SECTION IN AREAS WITH HEAVY VEHICULAR TRAFFIC (FIRE TRUCKS).
4. PROVIDE FULL DEPTH EXCAVATION OF FROST SUSCEPTIBLE MATERIALS AND SUBSEQUENT REPLACEMENT WITH A NON-FROST SUSCEPTIBLE COMPACTED STRUCTURAL FILL. REFER TO GEOTECHNICAL REPORT.

CONCRETE SLAB SECTION (FIRE LANE)
NOT TO SCALE

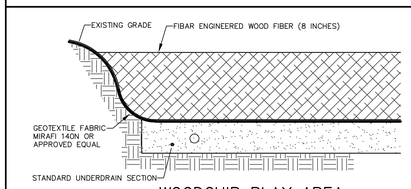


GENERAL NOTES:
1. POUR CONCRETE IN CHECKER BOARD FASHION AS PER JOINT LAYOUT (SEE PLAN) ALL LONGITUDINAL JOINTS MAY BE CONST JOINTS AT CONTRACTORS OPTION TRANSVERSE CONSTR. JOINTS SHALL BE INSTALLED WHENEVER THE PLACING OF CONCRETE IS SUSPENDED A SUFFICIENT LENGTH OF TIME THAT THE CONCRETE MAY BEGIN TO HARDEN.
2. SEE SITE PLANS FOR COLORED CONCRETE & DECORATIVE STAMPED PATTERN LOCATIONS.

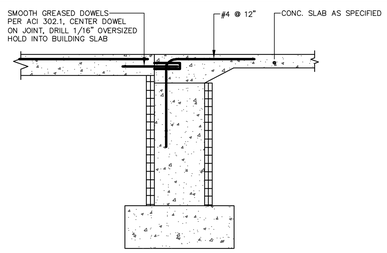
CONTROL JOINT DETAILS
NOT TO SCALE



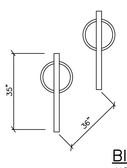
SAND PLAY AREA
NOT TO SCALE



WOODCHIP PLAY AREA
NOT TO SCALE

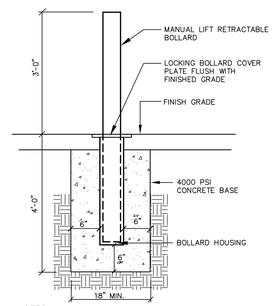


PINNING FIRE SLAB TO FROST WALL
NOT TO SCALE



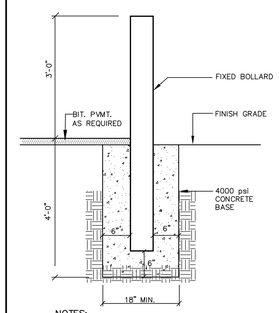
NOTES:
1. BIKE RACK SHALL EQUAL DERO BIKE HITCH AS MANUFACTURED BY DERO BIKE RACKS. INSTALL BIKE RACKS AS RECOMMENDED BY THE MANUFACTURER.
2. INSTALL BIKE RACKS MINIMUM OF 36" FROM ANY BUILDING ENTRYWAY AND 24" FROM SIDE OF BUILDING.
3. DISTANCE BETWEEN RACKS SHALL BE 36" AS SHOWN IN THE DETAIL.

BICYCLE RACK
NOT TO SCALE



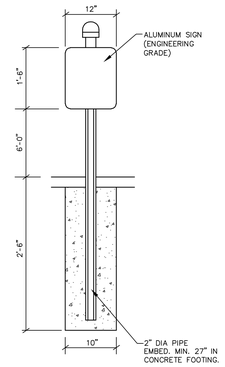
NOTES:
1. BOLLARD SHALL BE: CAL PIPE SECURITY BOLLARDS, MANUALLY OPERATED RETRACTABLE BOLLARD, 6" DIAMETER, LBMR06040, 36" HEIGHT, STAINLESS STEEL POLISHED #4 FINISH, OR APPROVED EQUAL.
2. PLEASE REFER TO MANUFACTURER FOR FINAL COORDINATION OF INSTALLATION.

MANUAL LIFT BOLLARD
NOT TO SCALE

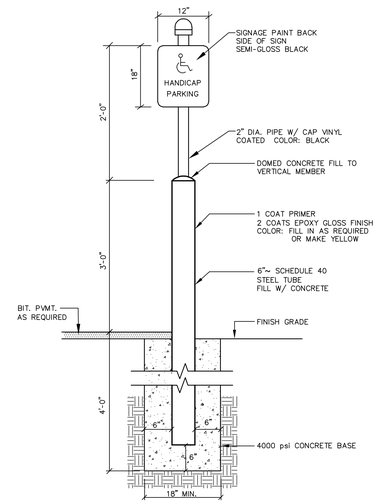


NOTES:
1. BOLLARD SHALL BE: CAL PIPE SECURITY BOLLARD, FIXED BOLLARD, TYPE 316 STAINLESS STEEL, 6" BOLLAROS, SSP06040, 36" HEIGHT, POLISHED #4 FINISHED.
2. PLEASE REFER TO MANUFACTURER FOR FINAL COORDINATION OF INSTALLATION.

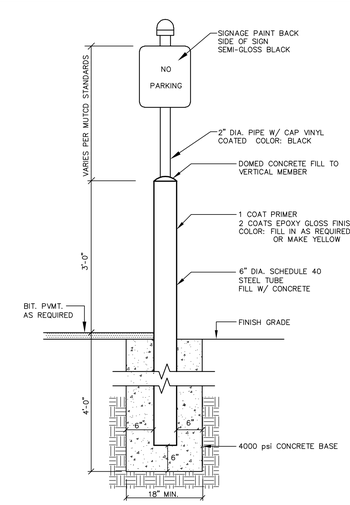
METAL BOLLARD
NOT TO SCALE



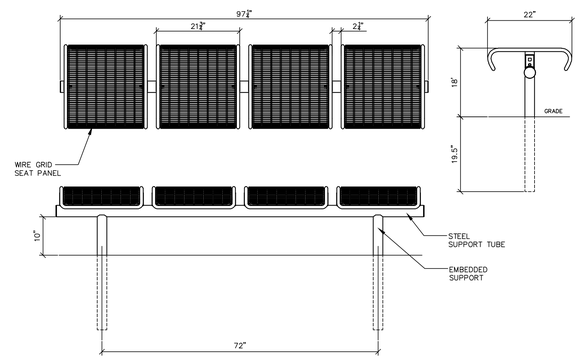
TYPICAL SIGN DETAIL
NOT TO SCALE



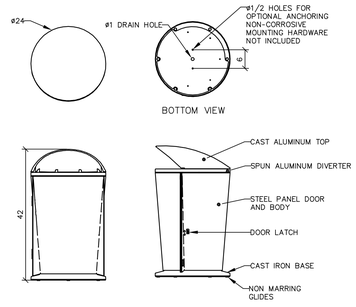
HANDICAP SIGNS IN METAL BOLLARD
NOT TO SCALE



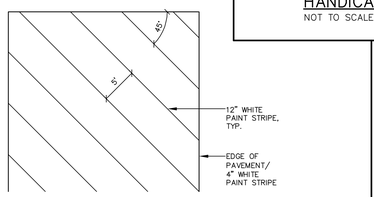
SIGN ON METAL BOLLARD
NOT TO SCALE



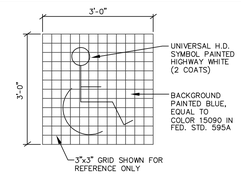
SITE BENCH DETAIL
NOT TO SCALE



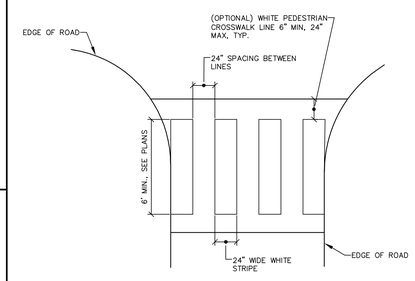
TRASH RECEPTACLE DETAIL
NOT TO SCALE



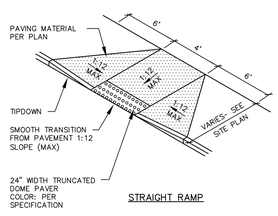
DIAGONAL PAINT MARKINGS
NOT TO SCALE

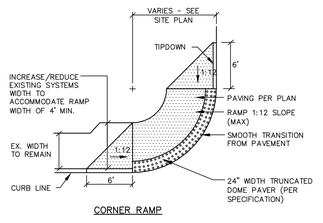


HANDICAP PAINT
NOT TO SCALE

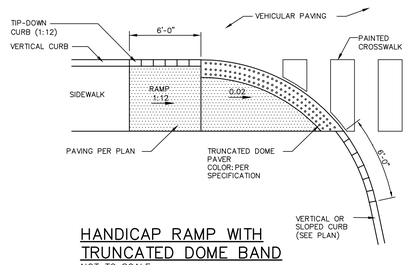


CROSSWALK MARKINGS
NOT TO SCALE

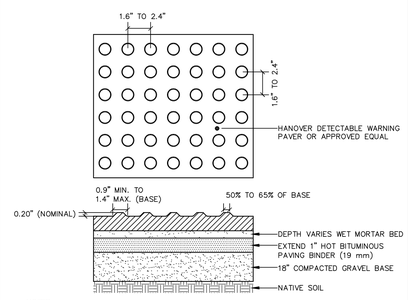




HANDICAP RAMP WITH TRUNCATED DOME BAND
NOT TO SCALE

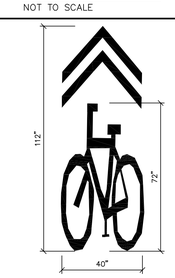


HANDICAP RAMP WITH TRUNCATED DOME BAND
NOT TO SCALE

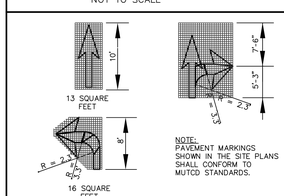


NOTES
1. PAVERS ARE INSTALLED IN A WET MORTAR BED OVER HOT BITUMINOUS OR COMPACTED FILL BASE. THE WET MORTAR BED IS REQUIRED TO LEVEL THE PAVERS.
2. SPACING REQUIREMENTS:
   A. TRUNCATED DOME PAVERS HAVE A BASE DIAMETER OF 0.9" (23 MM) MINIMUM TO 1.4" (36 MM) MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM, AND A NOMINAL DOME HEIGHT OF 0.2" (5 MM).
   B. TRUNCATED DOME PAVERS IN A DETECTABLE WARNING SURFACE HAVE A CENTER-TO-CENTER SPACING OF 1.6" (41 MM) MINIMUM AND 2.4" (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65" (16 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE SQUARE GRID.
   C. DETECTABLE WARNING SURFACES SHALL BE COLORED PER SPECIFICATION.

TRUNCATED DOME DETAIL
NOT TO SCALE

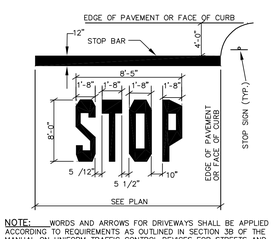


SHARROW DETAIL
NOT TO SCALE



NOTE:
PAVEMENT MARKINGS SHOWN IN THE SITE PLANS SHALL CONFORM TO MUTCD STANDARDS.

PAVEMENT ARROW DETAILS
NOT TO SCALE



NOTE: WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

1. THESE WORDS AND BAR ARE TO BE PAINTED REFLECTIVE WHITE.

STOP BAR
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE — CRAIG A. BURGESS — No. 12638 — PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT — KYLIE S. MASON — 3335 — STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
E	CAB	10-20-15	ISSUED FOR 75%
D	CAB	10-20-15	ISSUED FOR 75%

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South Portland, ME 04106
Tel: 207-200-2100
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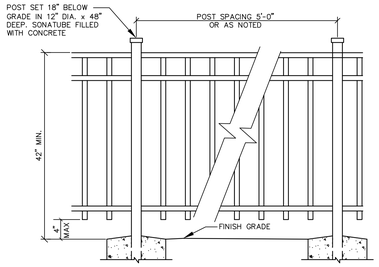
Lewiston, ME 04240
Tel: 207-783-9636

DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

SHEETC670FC75

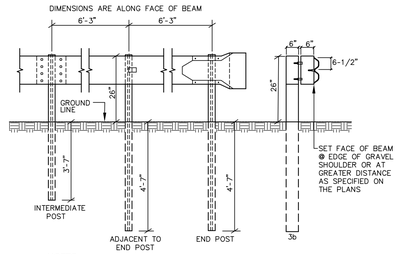
122330.dwg, TAB:D6



NOTE:
GUARDRAIL - MASTER HALCO IMPERIAL B, FLUSH TOP PICKETS, 2-1/2" SQUARE 16 GAUGE POSTS WITH FLAT POST TYPE. COLOR: BLACK. INSTALL POSTS IN 8" SONA TUBE FOOTINGS, EMBED POSTS MIN 18".

PEDESTRIAN GUARDRAIL (ALUMINUM TUBING)

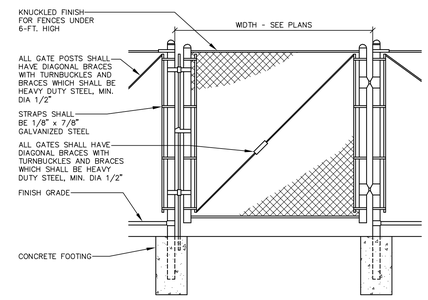
NOT TO SCALE



NOTES:
1. INTERMEDIATE POST SPACING SHALL BE 6'-3" UNLESS OTHERWISE SHOWN.
2. POSTS AND OFFSET BRACKETS FOR TYPE 3b GUARD RAIL SHALL BE W 6x9.
3. ALL HOLES IN BEAM TO BE SHOP-PUNCHED BEFORE GALVANIZING.
4. STATIONS 0+00 TO 26+00: INSTALL LOW VOLUME FLARED TERMINAL END PER MAINE DOT STANDARDS AT GUARDRAIL START. INSTALL TERMINAL END RWE03A PER MAINE DOT STANDARDS AT GUARDRAIL END. REFER TO PLAN AND PROFILE DRAWINGS FOR START/ END STATIONING ALONG MAIN ACCESS DRIVE.
5. STATIONS 26+00 TO 55+20: INSTALL SEQUENTIAL KINKING TANGENT TERMINAL END SKT-SP MANUFACTURED BY ROAD SYSTEMS, INC. OR APPROVED EQUAL AT GUARDRAIL START. INSTALL TERMINAL END RWE03A PER MAINE DOT STANDARDS AT GUARDRAIL END. REFER TO PLAN AND PROFILE DRAWINGS FOR START/ END STATIONING ALONG ACCESS DRIVE.
6. FOR ALL OTHER AREAS NOT ALONG MAIN AND SECONDARY ACCESS DRIVES, REFER TO SITE PLANS FOR TYPE OF TERMINAL ENDS.
5. PROVIDE MINIMUM 3' WIDE SHOULDER BEHIND FACE OF BEAM.

VEHICULAR GUARDRAIL (MDOT TYPE 3b)

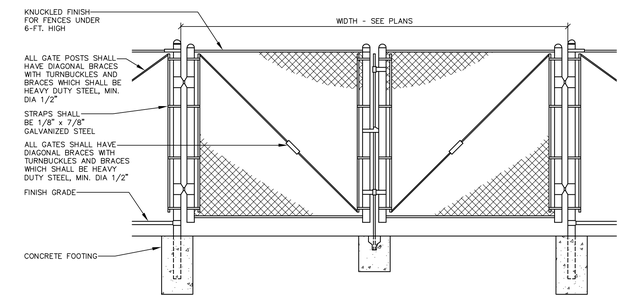
NOT TO SCALE



NOTES:
1. GATES SHALL BE FRAMED ON FOUR SIDES WITH 2" DIA. STANDARD WEIGHT STEEL PIPE. THE GATE FRAMES SHALL BE OF ALL SHOP-WELDED CONSTRUCTION WITH COMPLETE FULL WELDS GROUND SMOOTH.
2. GATE HINGES SHALL BE HEAVY-DUTY MALLEABLE IRON FULL-BAK TYPE, ALLOWING FOR 180° SWING. GATE-LOCKING DEVICE SHALL BE HEAVY DUTY EXTERNAL TYPE WITH LATCH, KEEPER, AND ALL APPURTENANCES.
3. ALL GATES OVER 6-FT. HIGH SHALL HAVE AN INTERMEDIATE RAIL. WHEREVER A DIAGONAL BRACE CROSSES AN INTERMEDIATE RAIL, THE BRACE SHALL PASS BETWEEN THE RAIL AND THE MESH.

CHAIN LINK FENCE - SINGLE GATE

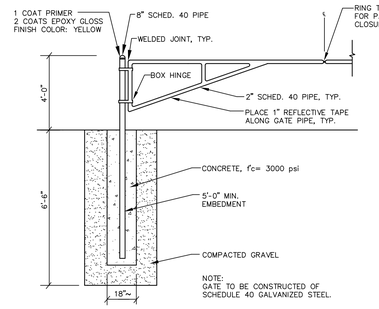
NOT TO SCALE



NOTES:
1. GATES SHALL BE FRAMED ON FOUR SIDES WITH 2" DIA. STANDARD WEIGHT STEEL PIPE. THE GATE FRAMES SHALL BE OF ALL SHOP-WELDED CONSTRUCTION WITH COMPLETE FULL WELDS GROUND SMOOTH.
2. GATE HINGES SHALL BE HEAVY-DUTY MALLEABLE IRON FULL-BAK TYPE, ALLOWING FOR 180° SWING. GATE-LOCKING DEVICE SHALL BE HEAVY DUTY EXTERNAL TYPE WITH LATCH, KEEPER, AND ALL APPURTENANCES.
3. ALL GATES OVER 6-FT. HIGH SHALL HAVE AN INTERMEDIATE RAIL. WHEREVER A DIAGONAL BRACE CROSSES AN INTERMEDIATE RAIL, THE BRACE SHALL PASS BETWEEN THE RAIL AND THE MESH.

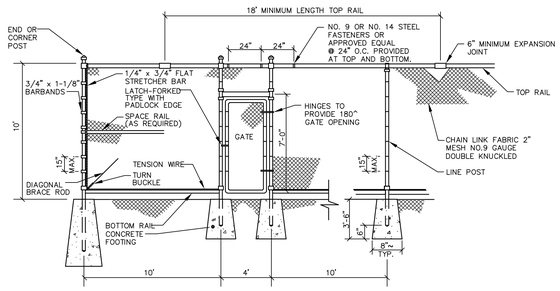
CHAIN LINK FENCE - DOUBLE GATE

NOT TO SCALE



ENTRANCE GATE DETAIL

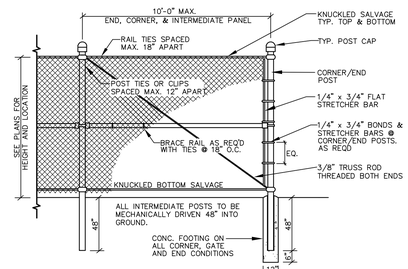
NOT TO SCALE



NOTES:
1. END OR CORNER POST: NOMINAL 3" O.D. DIA. GALVANIZED STEEL PIPE MIN. 5.79 LBS/LF.
2. LINE POST: NOMINAL 2-1/2" O.D. GALVANIZED STEEL PIPE, MIN. 3.65 LBS/LF.
3. BRACES, TOP & BOTTOM: NOMINAL 1-5/8" O.D. DIA. GALVANIZED STEEL PIPE. MIN. 2.27 LBS/LF.
4. THE OUTSIDE OF THE FENCE FABRIC SHALL BE 3" INSIDE THE EDGE OF PAVEMENT.
5. BRACE RAIL AND DIAGONAL BRACE ROD SHALL BE INSTALLED AT EACH 10' CORNER SECTION OF ENCLOSURE. SEE DETAIL 2 OF THIS SHEET.
6. CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH (f'c)= 3,000 PSI W / 6% ±1% AIR ENTRAINMENT.
7. BID ALTERNATE: FENCE FABRIC, POST, RAILS AND APPURTENANCES SHALL BE VINYL CLAD: COLOR BLACK.

FENCE ENCLOSURE

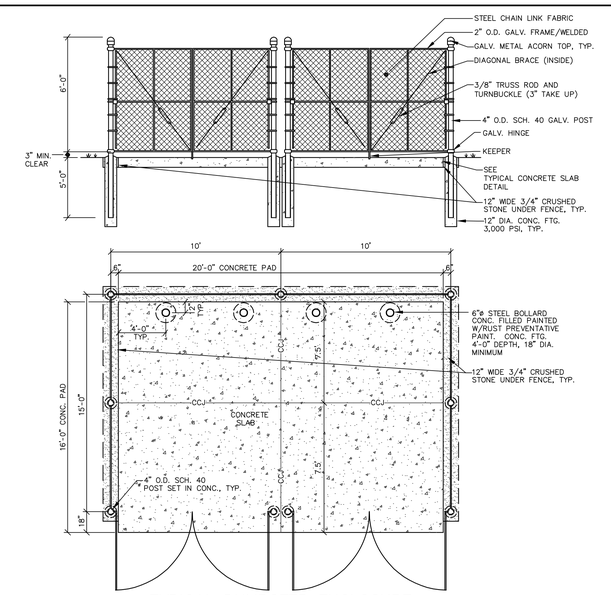
NOT TO SCALE



NOTES:
1. CORNER OR END POST: NOMINAL 3" O.D. GALVANIZED STEEL PIPE, MIN. 5.79 lbs./LF.
2. INTERMEDIATE POST: NOMINAL 2-1/2" O.D. GALVANIZED STEEL PIPE, MIN. 3.65 lbs./LF.
3. BRACES (TOP & BOTTOM): NOMINAL 1-5/8" O.D. GALVANIZED STEEL PIPE, MIN. 2.27 lbs./LF.
4. BRACE RAIL AND DIAGONAL BRACE ROD SHALL BE INSTALLED AT EACH 10' CORNER SECTION OF ENCLOSURE.
5. CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH f'c=3,000 psi WITH 6% AIR ENTRAINMENT.
6. SUBMIT SHOP DRAWINGS FOR OWNER'S/ENGINEER'S APPROVAL.
7. FENCE FABRIC, POST, RAILS AND APPURTENANCES SHALL BE GALVANIZED STEEL.
8. BID ALTERNATE: FENCE FABRIC, POST, RAILS AND APPURTENANCES SHALL BE VINYL CLAD: COLOR BLACK. SEE BID FORM.

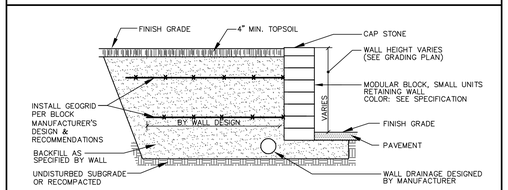
TYPICAL CHAIN LINK FENCE

NOT TO SCALE



TYPICAL DUMPSTER ENCLOSURE

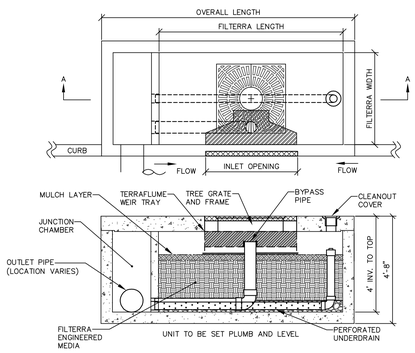
NOT TO SCALE



NOTE:
1. DESIGN OF WALL TO BE COMPLETED BY BLOCK MANUFACTURER. SUBMIT FINAL DESIGN PLANS PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN PLANS. SHALL INCLUDE PROVISIONS FOR DRAINAGE FOR SOILS BEHIND WALL.

MODULAR BLOCK RETAINING WALL

NOT TO SCALE



DESIGNATION (LENGTH x WIDTH)	INLET OPENING	MAX BYPASS PIPE SIZE	MAX BYPASS FLOW (CFS)	MAX OUTLET PIPE SIZE
4x6 OR 6x4	4'-0" *	8" PVC	1.57	8" PVC
6x8 OR 8x10	4'-0" *	8" PVC	1.57	8" PVC
6x10 OR 10x6	4'-0" *	8" PVC	1.57	8" PVC

* CONTACT FILTERRA FOR LARGER INLET OPENINGS OR DIFFERENT AVAILABLE CONFIGURATIONS

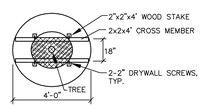
UNIT TO BE SET PLUMB AND LEVEL

NOTE:
SHOP DRAWINGS SHALL PROVIDE CURB INLET AND PIPE INVERT ELEVATIONS.

CONSTRUCTION OVERSIGHT NOTES FOR TREE FILTER:
INSPECTION BY A PROFESSIONAL ENGINEER APPROVED BY THE MANUFACTURER SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE SUBGRADE PREPARATION, GENERAL CONSTRUCTION, FILTER MATERIAL PLACEMENT AND COMPACTION, CHAMBER PLACEMENT, FABRIC PLACEMENT, AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE MEASURE.

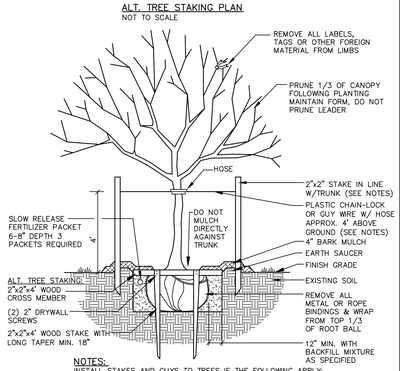
TREE FILTER DETAIL

NOT TO SCALE



ALT. TREE STAKING PLAN

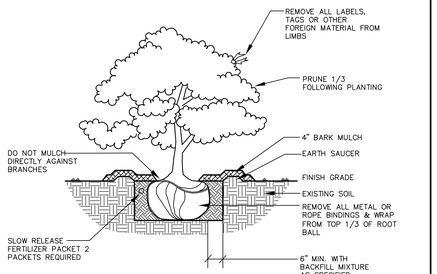
NOT TO SCALE



NOTES:
INSTALL STAKES AND GUYS TO TREES IF THE FOLLOWING APPLY:
1. THE TREE IS OF SUBSTANTIAL SIZE.
2. THE PLANTING LOCATION IS EXTREMELY WINDY, AS ON OPEN UNDEVELOPED SITES.
3. THE PLANTING LOCATION IS COMPRISED OF SAND OR OTHER LOOSE TEXTURED SOILS.
4. IF STAKES AND GUYS ARE REQUIRED, REMOVE AFTER ONE YEAR TIME.

TREE PLANTING DETAIL

NOT TO SCALE

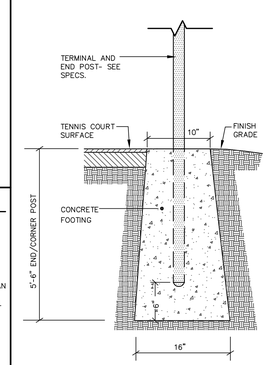


DECIDUOUS & EVERGREEN SHRUB

NOT TO SCALE

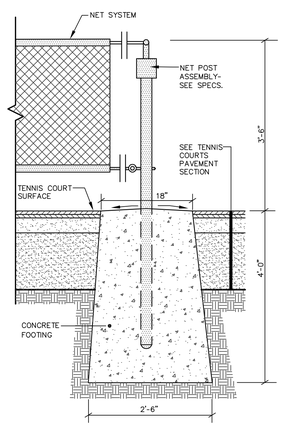
LANDSCAPE NOTES

1. PLANT QUANTITIES SHOWN ON PLANT LISTS ARE FOR CONVENIENCE TO THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL INSTALLATION AS SHOWN ON PLANS.
2. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF "U.S.A. STANDARD FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
3. ALL PLANT MATERIAL SHALL BE FREE FROM INSECTS AND DISEASE.
4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING, STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE BY THE OWNER.
5. PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BY THE CONTRACTOR AND A PERIOD OF TWO YEARS THEREAFTER BY THE OWNER FROM DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE PERIOD, DEAD PLANT MATERIAL SHALL BE REPLACED AT NO COST TO THE OWNER. AT THE END OF THE ONE YEAR PERIOD, THE CONTRACTOR SHALL OBTAIN FINAL ACCEPTANCE FROM THE OWNER.
6. ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
7. EXISTING TREES TO BE PRESERVED WILL BE PROTECTED DURING CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF THE UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC. DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER.
9. ALL SHRUB BEDS SHALL BE MULCHED WITH 3" CLEAN SHREDDED DARK BROWN BARK MULCH.
10. THE CONTRACTOR SHALL PROVIDE 4" LOAM FOR ALL AREAS TO BE SODDED OR SEEDED. PLANTING AREAS SHALL RECEIVE 12" ROLLED THICKNESS OF LOAM. THE LANDSCAPE CONTRACTOR SHALL COORDINATE SUBGRADE PREPARATION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
11. ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY OR CONDITION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT (AND MUNICIPAL AUTHORITY, IF APPLICABLE) PRIOR TO INSTALLATION ON SITE.
12. WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR PERENNIAL AND ANNUAL FLOWER BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.



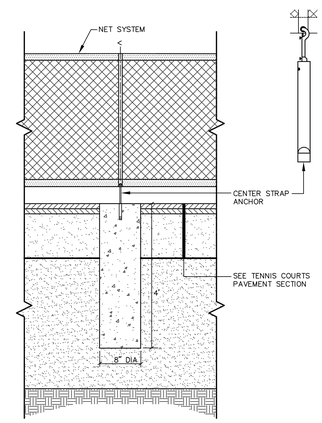
TENNIS COURT POST FOOTING

NOT TO SCALE



TENNIS COURT NET FOOTING

NOT TO SCALE



CENTER NET STRAP ANCHOR

NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV.:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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Lewiston, ME 04240
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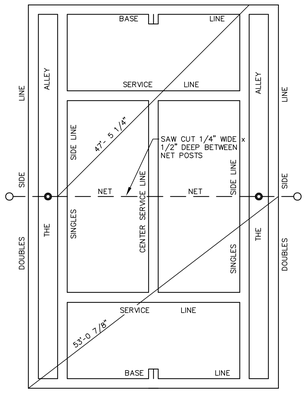
DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

SHEETc680Fc75

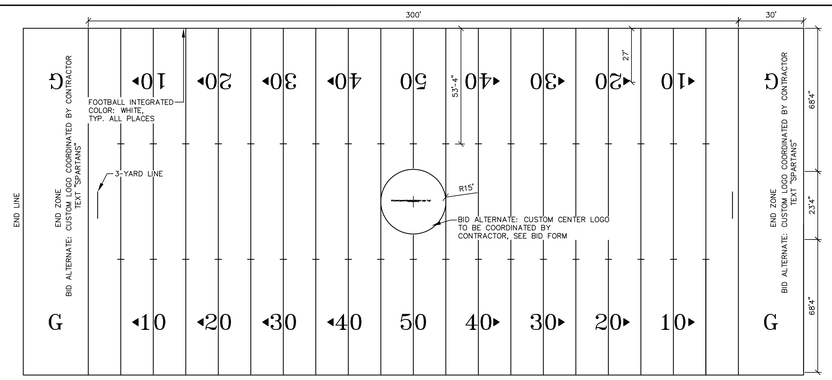
12233.dwg, TAB: D7



TENNIS COURT LAYOUT

NOT TO SCALE

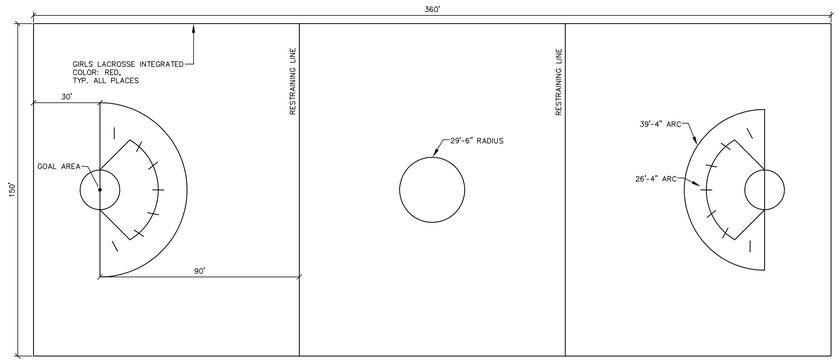
NOTE:
CONTRACTOR SHALL PROVIDE AND INSTALL PER MANUFACTURER'S SPECIFICATION (4) TENNIS NETS EQUAL TO DOUGLAS SPORTS, ITEM TN 36T. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE MANUFACTURER'S SPECIFICATION WITH PROVIDED DETAILS.



FOOTBALL FIELD LAYOUT

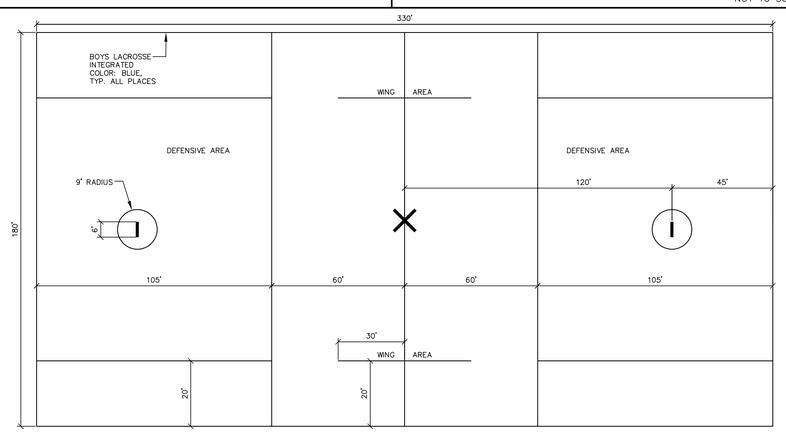
NOT TO SCALE

BID ALTERNATE: CUSTOM LOGOS:
1. CUSTOM END ZONE LOGO TEXT "SPARTANS" (50% OF LENGTH ACROSS END ZONE AREA)
2. END ZONE TO BE PAINTED SOLID RED
3. CENTER LOGO IS TO BE HELMET WITH "SANFORD" ABOVE AND "SPARTANS" BELOW, IN 15' RADIUS AT CENTER OF FOOTBALL FIELD, FACING THE HOMESIDE BLEACHERS.



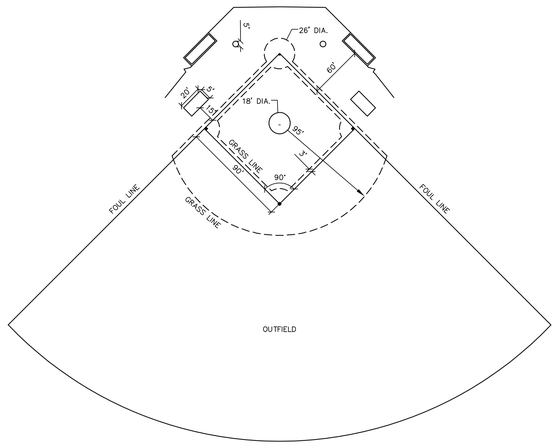
GIRLS LACROSSE FIELD LAYOUT

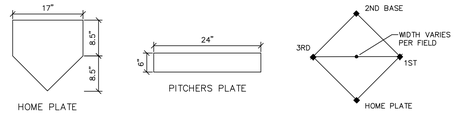
NOT TO SCALE



BOYS LACROSSE FIELD LAYOUT

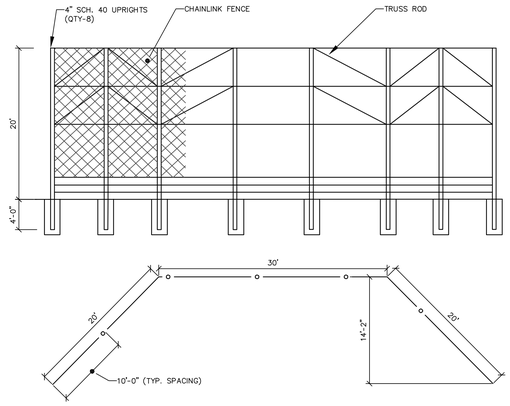
NOT TO SCALE





BASEBALL FIELD LAYOUT

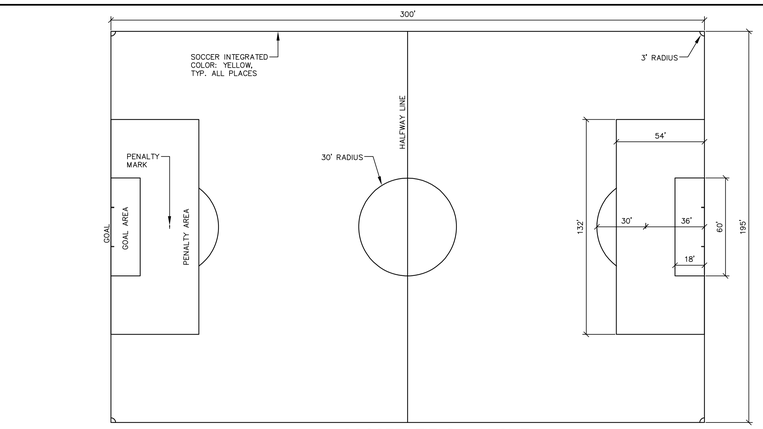
NOT TO SCALE



BACKSTOP NOTE
1. THE CONTRACTOR SHALL SUBMIT A BACKSTOP INSTALLATION PLAN WITH DIMENSIONS FOR APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE MANUFACTURER'S SPECIFICATION WITH PROVIDED DETAILS.

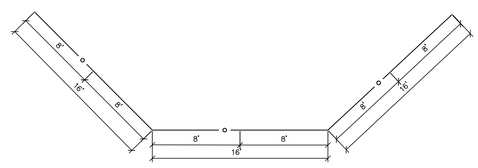
BASEBALL BACKSTOP

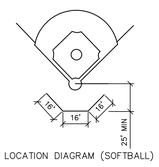
NOT TO SCALE



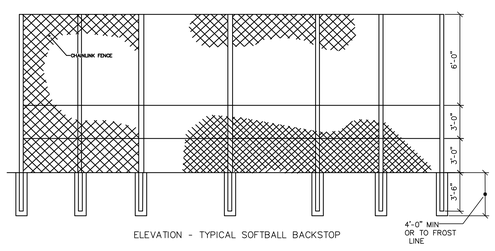
SOCCER FIELD LAYOUT

NOT TO SCALE





LOCATION DIAGRAM (SOFTBALL)

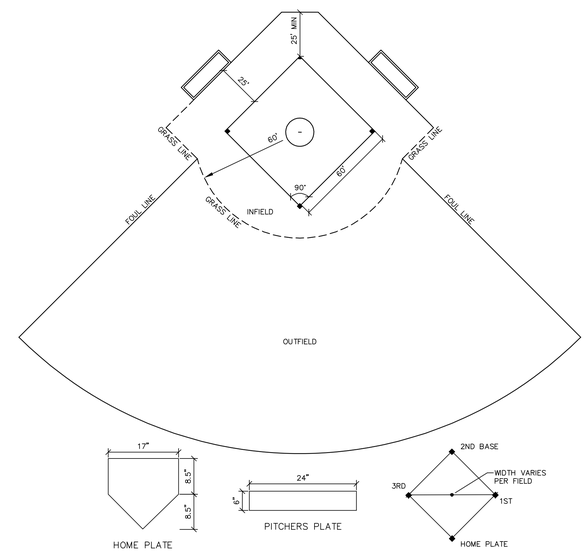


ELEVATION - TYPICAL SOFTBALL BACKSTOP

BACKSTOP NOTE
1. THE CONTRACTOR SHALL SUBMIT A BACKSTOP INSTALLATION PLAN WITH DIMENSIONS FOR APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE MANUFACTURER'S SPECIFICATION WITH PROVIDED DETAILS.

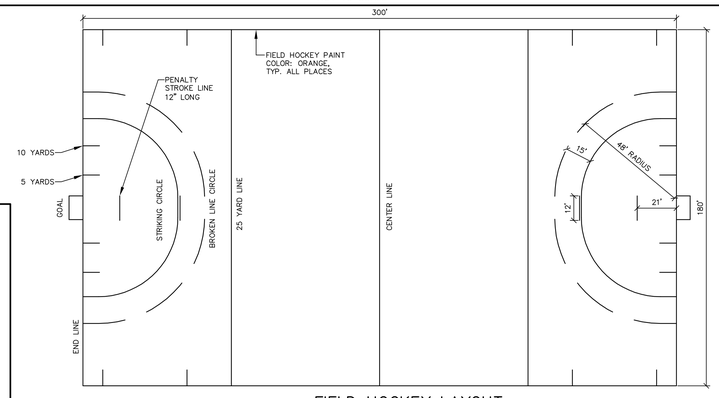
SOFTBALL BACKSTOP

NOT TO SCALE



SOFTBALL FIELD LAYOUT

NOT TO SCALE



FIELD HOCKEY LAYOUT

NOT TO SCALE

ARTIFICIAL TURF FIELD NOTES:
1. THE CONTRACTOR SHALL SUBMIT AN ARTIFICIAL TURF LINE PLAN WITH DIMENSIONS FOR APPROVAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR INTEGRATED CUSTOM LOGO DESIGN IN THE CENTER OF THE FIELD AND A CUSTOM (FOOTBALL) END ZONE DETAIL TO BE COORDINATED DIRECTLY WITH OWNER AND APPROVED PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INTEGRATED STRIPING PLAN FOR THE FOLLOWING SPORTS IN COLORS AS NOTED:

SOCCER - (YELLOW)
BOYS LACROSSE - (BLUE)
GIRLS LACROSSE - (RED)
FOOTBALL - (WHITE)

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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250 Gladiolus Rd.
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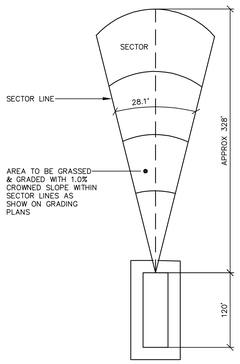
Lewiston, ME 04240
Tel. 207-783-5656

DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

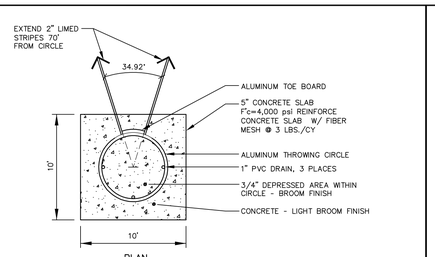
PROJECT NO.	SCALE
12233	NTS

SHEETc690Fc75

12233D.dwg, TAB:D8

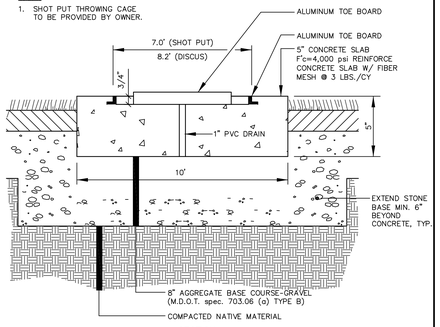


JAVELIN AREA
NOT TO SCALE



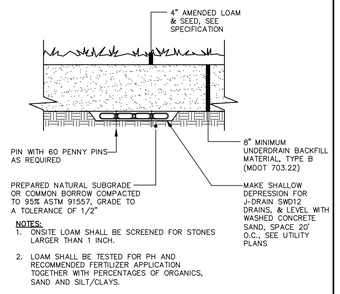
PLAN

NOTE:
1. SHOT PUT THROWING CAGE TO BE PROVIDED BY OWNER.



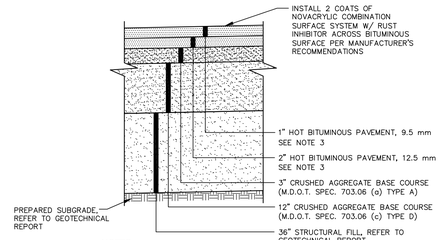
SECTION

SHOT PUT & DISCUS PAD
NOT TO SCALE



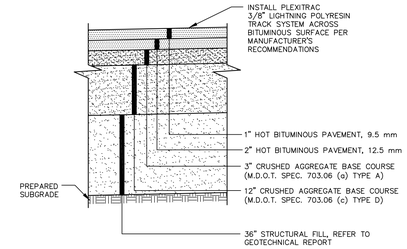
NOTES:
1. ONSITE LOAM SHALL BE SCREENED FOR STONES LARGER THAN 1 INCH.
2. LOAM SHALL BE TESTED FOR PH AND RECOMMENDED FERTILIZER APPLICATION TOGETHER WITH PERCENTAGES OF ORGANICS, SAND AND SILT/CLAYS.

TYPICAL FIELD SECTION
NOT TO SCALE



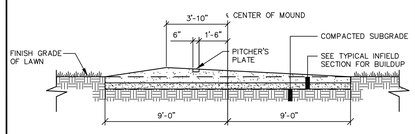
NOTES:
1. SEE GRADING AND UTILITY PLANS FOR FINISH GRADE ELEVATIONS.
2. SEE SITE PLANS FOR LAYOUT DIMENSIONS.
3. THE AGGREGATES USED IN THE BITUMINOUS PAVEMENT MIX SHALL BE FREE FROM MINERAL PYRITES, MARCA-SITE, WOOD PARTICLES, CLAY OR DUST 'BALLS' OR OTHER DELETERIOUS MATERIALS WHICH MAY CAUSE STAINING/DISCOLORATION OR INTERFERE WITH THE PLANARITY, STRUCTURAL STABLITY OR AESTHETICS OF THE PLAYING SURFACE.
4. STRUCTURAL FILL DEPTH SHALL BE MIN. 4.5' FROM FINISHED GRADE. REFER TO GEOTECHNICAL REPORT.

TENNIS COURTS PAVEMENT SECTION
NOT TO SCALE

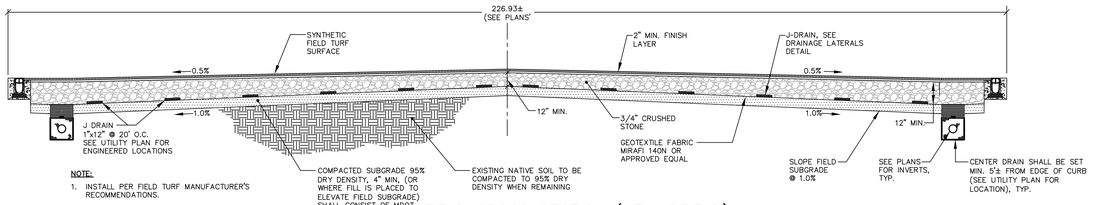


NOTES:
1. SEE GRADING AND UTILITY PLANS FOR FINISH GRADE ELEVATIONS.
2. SEE SITE PLANS FOR LAYOUT DIMENSIONS.
3. STRUCTURAL FILL DEPTH SHALL BE MIN. 4.5' FROM FINISHED GRADE. REFER TO GEOTECHNICAL REPORT.

POLE VAULT & LONG JUMP RUNWAYS & HIGH JUMP AREA & JAVELIN PAVEMENT SECTION
NOT TO SCALE

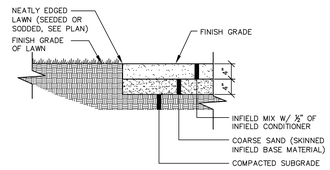


BASEBALL FIELD PITCHER'S MOUND SECTION
NOT TO SCALE



NOTE:
1. INSTALL PER FIELD TURF MANUFACTURER'S RECOMMENDATIONS.
2. SEE GRADING PLANS FOR FIELD ELEVATIONS, DRAINAGE AND UNDERDRAIN INVERTS.

FIELD CROSS SECTION (AT MIDFIELD)
NOT TO SCALE

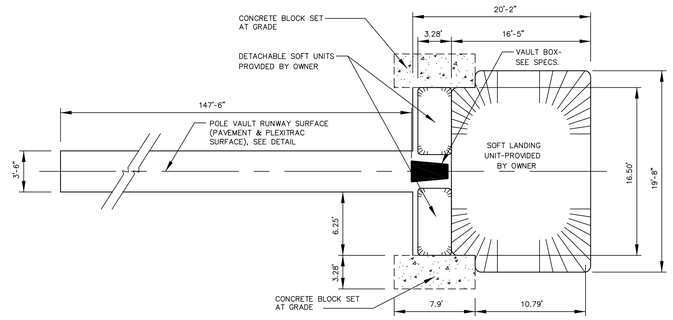


NOTES:
1. INFIELD MIX SHALL BE INSTALLED PER REQUIREMENTS OF ASTM F2107-08 5.1.2.2.
2. INSTALL WILL LASER GRADE.

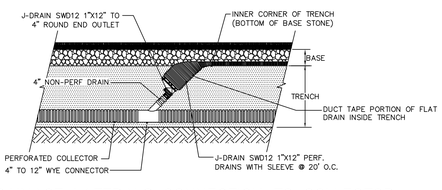
TABLE 1

INFIELD MIX - ASTM F2107-08 5.1.2.2	
SIEVE SIZE	% PASSING BY WEIGHT
#10	85-100
#18	62-90
#35	48-84
#60	38-71
#100	27-60
#270	19-40

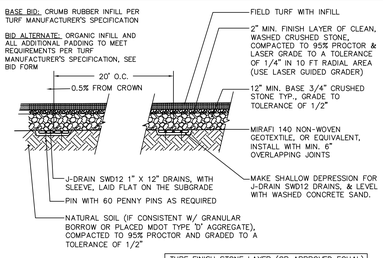
TYPICAL BASEBALL/ SOFTBALL INFIELD SECTION
NOT TO SCALE



POLE VAULT LAYOUT
NOT TO SCALE



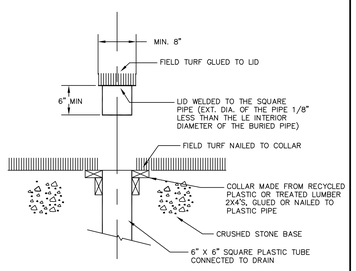
DRAINAGE LATERALS CONNECTION TO COLLECTOR
NOT TO SCALE



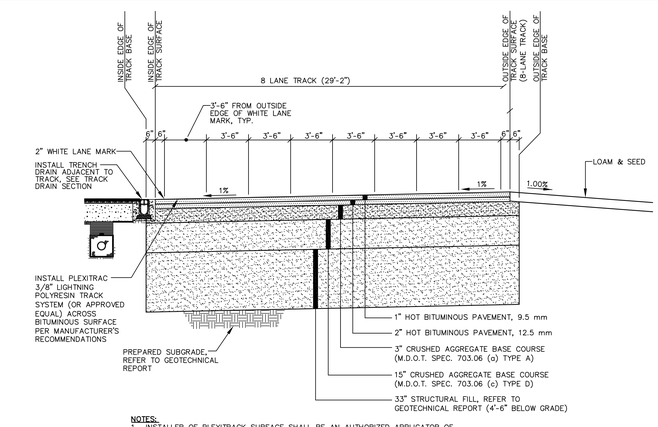
TURF FINISH STONE LAYER (OR APPROVED EQUAL)	
SIEVE SIZE	% PASSING BY WEIGHT
½ INCH	100
⅜ INCH	80-100
#8	40-60
#16	15-35
#100	5-9
#200	1-5

* LESS THAN 2% CLAY CONTENT

DRAINAGE LATERALS & FIELD SECTION
NOT TO SCALE

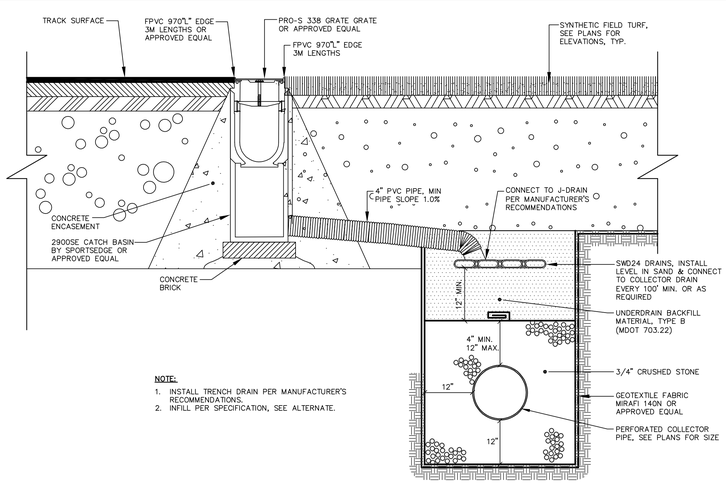


SMALL CLEAN-OUT (NO MORE THAN 6" x 6" ON FIELD TURF)
NOT TO SCALE



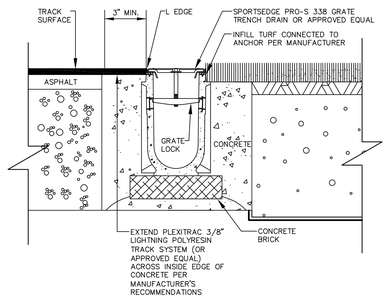
NOTES:
1. INSTALLER OF PLEXITRACK SURFACE SHALL BE AN AUTHORIZED APPLICATOR OF THE SYSTEM.
2. EDGE OF TRACK SURFACE AND LANE DIVIDES TO BE MARKED PER POLY RESIN MANUFACTURER SPECIFICATIONS.
3. STRUCTURAL FILL DEPTH SHALL BE MIN. 4.5' FROM FINISHED GRADE. REFER TO GEOTECHNICAL REPORT.
4. THE CONTRACTOR SHALL SUBMIT AN TRACK LINE PLAN WITH DIMENSIONS FOR APPROVAL.

TRACK SECTION
NOT TO SCALE



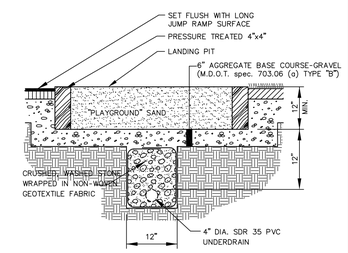
NOTE:
1. INSTALL TRENCH DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
2. INFILL PER SPECIFICATION, SEE ALTERNATE.

TRACK DRAIN CATCH BASIN & COLLECTOR SECTION
NOT TO SCALE

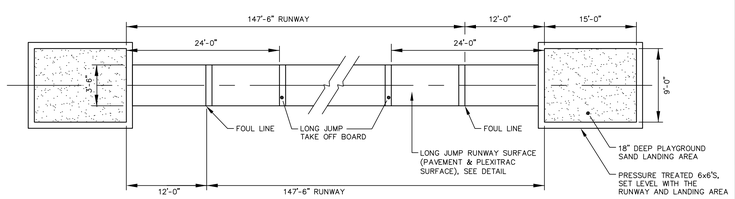


NOTES:
1. INSTALL TRENCH DRAIN PER MANUFACTURER'S RECOMMENDATIONS.
2. INFILL PER SPECIFICATION, SEE ALTERNATE

TRACK DRAIN SECTION
NOT TO SCALE



LONG JUMP LANDING PIT SECTION
NOT TO SCALE



LONG JUMP LAYOUT
NOT TO SCALE

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER DEP COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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250 Goddard Rd.
Lewiston, ME 04240
Tel: 207-783-3836

DETAILS
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE
DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	NTS

SHEETc700FC75

122330.dwg, TAB:D9

SEE SHEET C72 FOR CONTINUATION

SOIL TYPES

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
AdB	ADAMS	LOAMY SAND	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED
AdC	ADAMS	LOAMY SAND	8–15%	A	SOMEWHAT EXCESSIVELY DRAINED
AUA	ADAMS–URBAN LAND ASSOCIATION	LOAMY SAND	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
BsB	BRAYTON AND WESTBURY	STONY FINE SANDY LOAM	0–8%	D	SOMEWHAT POORLY DRAINED
Ch	CHOCORUA PEAT	MUCKY PEAT	0–8%	D	VERY POORLY DRAINED
ChA	CHOCORUA	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED
CoA	COLTON	GRAVELLY LOAMY COARSE SAND	0–3%	A	EXCESSIVELY DRAINED
CoB	COLTON	GRAVELLY LOAMY COARSE SAND	3–8%	A	EXCESSIVELY DRAINED
CoC	COLTON	GRAVELLY LOAMY COARSE SAND	8–15%	A	EXCESSIVELY DRAINED
CoD	COLTON	GRAVELLY LOAMY COARSE SAND	15–25%	A	EXCESSIVELY DRAINED
CrA	CROGHAN	LOAMY SAND	0–3%	A	MODERATELY WELL DRAINED
CrB	CROGHAN	LOAMY SAND	3–8%	A	MODERATELY WELL DRAINED
LnB	LYMAN	FINE SANDY LOAM	3–8%	D	SOMEWHAT EXCESSIVELY DRAINED
LrC	LYMAN–ROCK OUTCROP ASSOC.	FINE SANDY LOAM	8–15%	D	SOMEWHAT EXCESSIVELY DRAINED
LyB	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	3–8%	D	EXCESSIVELY DRAINED
LyC	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	8–15%	D	WELL DRAINED
Md1B	COLTON–LIKE	N/A	3–8%	A	EXCESSIVELY DRAINED
Md1C	COLTON–LIKE	N/A	8–15%	A	EXCESSIVELY DRAINED
Md2A	NAUMBURG–LIKE	N/A	0–3%	D	SOMEWHAT POORLY DRAINED
Md3A	ADAMS–LIKE	N/A	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
Md4B	COLTON/LYMAN–LIKE ASSOCIATION	N/A	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED/ EXCESSIVELY DRAINED
MrB	MARLOW	FINE SANDY LOAM	8–15%	C	WELL DRAINED
MrC2	MARLOW	FINE SANDY LOAM	8–15%	C	WELL DRAINED
Na	NAUMBURG	SAND	0–3%	A/D	PORRLY DRAINED
NaA	NAUMBURG	LOAMY SAND	0–3%	D	POORLY DRAINED/ SOMEWHAT POORLY DRAINED
PeB	PERU	FINE SANDY LOAM	0–8%	C	MODERATELY WELL DRAINED
Pg	PITS	GRAVEL	N/A	N/A	N/A
Sg	SEBAGO	MUCKY PEAT	0–1%	A/D	VERY POORLY DRAINED
SrA	SEARSPORT	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED

NOTE

ON-SITE SOIL INFORMATION IS BASED ON THE CLASS 'B' HIGH INTENSITY SOILS MAP PREPARED BY SEBAGO TECHNICS AND DATED NOVEMBER 8, 2013. OFF-SITE SOIL INFORMATION IS BASED ON THE NATURAL RESOURCES CONSERVATION SERVICE (NCRS) CUSTOM SOIL RESOURCE REPORT FOR YORK COUNTY, MAINE

LEGEND

- WATERSHED BOUNDARY
- B → C TIME OF CONCENTRATION
- B C REACH
- 1 WATERSHED LABEL
- 1 REACH
- 1 DETENTION POND
- SOILS BOUNDARY

CRAIG BURGESS, P.E. #12538

STATE OF MAINE
CRAIG A. BURGESS
No. 12538
PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
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H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-12-15	ISSUED FOR CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85% CONSTRUCTION
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

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75 John Roberts Rd. Suite B
South Portland, ME 04106 Tel: 207-200-2100
250 Goddard Rd. Suite 1
Lewiston, ME 04240 Tel: 207-783-3538

PRE-DEVELOPMENT STORMWATER PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEET C710FC75

12233MP-PRE.dwg, TAB:PRE1

SEE SHEET C71 FOR CONTINUATION

SOIL TYPES

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
AdB	ADAMS	LOAMY SAND	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED
AdC	ADAMS	LOAMY SAND	8–15%	A	SOMEWHAT EXCESSIVELY DRAINED
AUA	ADAMS–URBAN LAND ASSOCIATION	LOAMY SAND	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
BsB	BRAYTON AND WESTBURY	STONY FINE SANDY LOAM	0–8%	D	SOMEWHAT POORLY DRAINED
Ch	CHOCORUA PEAT	MUCKY PEAT	0–8%	D	VERY POORLY DRAINED
ChA	CHOCORUA	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED
CoA	COLTON	GRAVELLY LOAMY COARSE SAND	0–3%	A	EXCESSIVELY DRAINED
CoB	COLTON	GRAVELLY LOAMY COARSE SAND	3–8%	A	EXCESSIVELY DRAINED
CoC	COLTON	GRAVELLY LOAMY COARSE SAND	8–15%	A	EXCESSIVELY DRAINED
CoD	COLTON	GRAVELLY LOAMY COARSE SAND	15–25%	A	EXCESSIVELY DRAINED
CrA	CROGHAN	LOAMY SAND	0–3%	A	MODERATELY WELL DRAINED
CrB	CROGHAN	LOAMY SAND	3–8%	A	MODERATELY WELL DRAINED
LnB	LYMAN	FINE SANDY LOAM	3–8%	D	SOMEWHAT EXCESSIVELY DRAINED
LrC	LYMAN–ROCK OUTCROP ASSOC.	FINE SANDY LOAM	8–15%	D	SOMEWHAT EXCESSIVELY DRAINED
LyB	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	3–8%	D	EXCESSIVELY DRAINED
LyC	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	8–15%	D	WELL DRAINED
Md1B	COLTON–LIKE	N/A	3–8%	A	EXCESSIVELY DRAINED
Md1C	COLTON–LIKE	N/A	8–15%	A	EXCESSIVELY DRAINED
Md2A	NAUMBURG–LIKE	N/A	0–3%	D	SOMEWHAT POORLY DRAINED
Md3A	ADAMS–LIKE	N/A	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
Md4B	COLTON/LYMAN–LIKE ASSOCIATION	N/A	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED/ EXCESSIVELY DRAINED
MrB	MARLOW	FINE SANDY LOAM	8–15%	C	WELL DRAINED
MrC2	MARLOW	FINE SANDY LOAM	8–15%	C	WELL DRAINED
Na	NAUMBURG	SAND	0–3%	A/D	PORRLY DRAINED
NaA	NAUMBURG	LOAMY SAND	0–3%	D	POORLY DRAINED/ SOMEWHAT POORLY DRAINED
PeB	PERU	FINE SANDY LOAM	0–8%	C	MODERATELY WELL DRAINED
Pg	PITS	GRAVEL	N/A	N/A	N/A
Sg	SEBAGO	MUCKY PEAT	0–1%	A/D	VERY POORLY DRAINED
SrA	SEARSPORT	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED

NOTE

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LEGEND

- WATERSHED BOUNDARY
- B — C: TIME OF CONCENTRATION
- REACH
- 1: WATERSHED LABEL
- 1: REACH
- 1: DETENTION POND
- SOILS BOUNDARY

CRAIG BURGESS, P.E. #12638

STATE OF MAINE — CRAIG A. BURGESS — No. 12638 — PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT — KYLIE S. MASON — 3335 — STATE OF MAINE

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SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEETC72OFC75

12233SWP-PRE.dwg, TAB:PRE2

SOIL TYPES

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
AdB	ADAMS	LOAMY SAND	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED
AdC	ADAMS	LOAMY SAND	8–15%	A	SOMEWHAT EXCESSIVELY DRAINED
AUA	ADAMS–URBAN LAND ASSOCIATION	LOAMY SAND	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
BsB	BRAYTON AND WESTBURY	STONY FINE SANDY LOAM	0–8%	D	SOMEWHAT POORLY DRAINED
Ch	CHOCORUA PEAT	MUCKY PEAT	0–8%	D	VERY POORLY DRAINED
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CoC	COLTON	GRAVELLY LOAMY COARSE SAND	8–15%	A	EXCESSIVELY DRAINED
CoD	COLTON	GRAVELLY LOAMY COARSE SAND	15–25%	A	EXCESSIVELY DRAINED
CrA	CROGHAN	LOAMY SAND	0–3%	A	MODERATELY WELL DRAINED
CrB	CROGHAN	LOAMY SAND	3–8%	A	MODERATELY WELL DRAINED
LnB	LYMAN	FINE SANDY LOAM	3–8%	D	SOMEWHAT EXCESSIVELY DRAINED
LrC	LYMAN–ROCK OUTCROP ASSOC.	FINE SANDY LOAM	8–15%	D	SOMEWHAT EXCESSIVELY DRAINED
LyB	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	3–8%	D	EXCESSIVELY DRAINED
LyC	LYMAN–ROCK OUTCROP COMPLEX	FINE SANDY LOAM	8–15%	D	WELL DRAINED
Md1B	COLTON–LIKE	N/A	3–8%	A	EXCESSIVELY DRAINED
Md1C	COLTON–LIKE	N/A	8–15%	A	EXCESSIVELY DRAINED
Md2A	NAUMBURG–LIKE	N/A	0–3%	D	SOMEWHAT POORLY DRAINED
Md3A	ADAMS–LIKE	N/A	0–3%	A	SOMEWHAT EXCESSIVELY DRAINED
Md4B	COLTON/LYMAN–LIKE ASSOCIATION	N/A	3–8%	A	SOMEWHAT EXCESSIVELY DRAINED/ EXCESSIVELY DRAINED
MrB	MARLOW	FINE SANDY LOAM	8–15%	C	WELL DRAINED
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PeB	PERU	FINE SANDY LOAM	0–8%	C	MODERATELY WELL DRAINED
Pg	PITS	GRAVEL	N/A	N/A	N/A
Sg	SEBAGO	MUCKY PEAT	0–1%	A/D	VERY POORLY DRAINED
SrA	SEARSPORT	MUCKY PEAT	0–3%	D	VERY POORLY DRAINED

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LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION (B → C)
- REACH
- WATERSHED LABEL
- REACH
- DETENTION POND
- SOILS BOUNDARY

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

CRAIG BURGESS, P.E. #12638

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CRAIG A. BURGESS
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PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
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POST-DEVELOPMENT STORMWATER PLAN

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SANFORD, MAINE 04073

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SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEET C730 OF C75

12233SWP-POST.dwg, TAB:POST SWP

SEE SHEET C73 FOR CONTINUATION

SOIL TYPES

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
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SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEETC740FC75

12233SWP-POST.dwg, TAB:POST SWP (2)

Worksheet 2: Pre-PPE and Post-PPE Calculations

Project: Sanford High School

Job #12233

AREA ID	WATERSHED SIZE	NEW ONSITE IMPERVIOUS AREA - PAVEMENT/ CONCRETE (PERVIOUS PAVEMENT/PERMEABLE PAVERS)	NEW ONSITE IMPERVIOUS AREA - GRAVEL			NEW ONSITE IMPERVIOUS AREA - CONCRETE/ PAVED SIDEWALKS/ TRACK	NEW ONSITE IMPERVIOUS AREA - BUILDING	NEW ONSITE LANDSCAPED AREA			TOTAL NEW DEVELOPED AREA	UNDEVELOPED AND/OR EXISTING AREAS	Pre-treatment Algal Av. P Export	Treatment Factor for BMP(s) from Chapter 6	Post- treatment Algal Av. P Export	Description of BMPs
	(S.F.)	(S.F.)	(S.F.)			(S.F.)	(S.F.)	(S.F.)				(S.F.)	(lbs P/year)		(lbs P/year)	
HSG Type	-	N/A	A	C	D	N/A	N/A	A	C	D	-	-				
EXPORT COEFFIECIENT	-	1.25	1.25			0.5	0.5	0.1	0.3	0.4	-	-	-	-	-	-
1.00S	65,305	0	5,255	0	0	0	0	6,168	0	0	11,423	53,882	0.16	1.00	0.16	NONE
1.01S	7,723	0	3,184	0	0	0	0	3,543	0	0	6,727	996	0.10	0.20	0.02	WB-3
2.00S	187,554	0	0	0	0	0	0	0	0	0	0	187,554	0.00	1.00	0.00	NONE
3.00S	658,262	0	0	0	0	0	0	31,744	0	35,855	67,599	590,663	0.40	1.00	0.40	NONE
3.01S	38,412	0	0	0	0	0	38,412	0	0	0	38,412	0	0.44	0.30	0.13	SSF-1
3.02S	7,666	27	0	0	0	0	0	5,243	0	2,396	7,666	0	0.03	0.38	0.01	UDSF-5
3.03S	4,293	4,293	0	0	0	0	0	0	0	0	4,293	0	0.12	0.38	0.05	UDSF-5
3.04S	21,595	3,483	0	0	0	1,881	0	125	0	16,106	21,595	0	0.27	0.25	0.07	UDST-1
3.05S	5,094	4,941	0	0	0	0	0	153	0	0	5,094	0	0.14	0.38	0.05	UDSF-5
3.06S	9,958	1,527	0	0	0	529	0	7,902	0	0	9,958	0	0.07	0.38	0.03	UDSF-5
3.07S	33,917	23,381	0	0	0	0	0	7,232	0	3,304	33,917	0	0.72	0.38	0.27	UDSF-5
3.08S	14,468	2,990	0	0	0	0	0	11,478	0	0	14,468	0	0.11	0.38	0.04	UDSF-5
3.09S	6,341	0	0	0	0	325	0	6,016	0	0	6,341	0	0.02	0.38	0.01	UDSF-5
3.10S	6,712	6,626	0	0	0	0	0	86	0	0	6,712	0	0.19	0.38	0.07	UDSF-5
3.11S	8,868	0	0	0	0	317	0	4,757	0	3,794	8,868	0	0.05	0.25	0.01	UDST-2
3.12S	11,075	0	0	0	0	100	0	10,975	0	0	11,075	0	0.03	0.89	0.02	UDST-3
3.13S	141,754	0	0	0	0	39,383	0	102,371	0	0	141,754	0	0.69	0.40	0.27	Artificial Turf Filter
3.14S	29,326	0	0	0	0	863	0	21,295	0	7,168	29,326	0	0.12	0.25	0.03	UDSF-2
3.15S	21,339	0	0	0	0	1,516	250	2,451	0	17,122	21,339	0	0.18	1.00	0.18	NONE
3.16S	48,321	12,575	153	0	813	845	0	1,413	13,227	19,295	48,321	0	0.67	0.38	0.26	UDSF-3
3.17S	3,604	0	0	0	0	1,043	375	0	0	2,186	3,604	0	0.04	1.00	0.04	NONE
3.18S	84,989	2,566	8,990	0	3,404	0	0	18,280	0	1,063	34,303	50,686	0.48	0.31	0.15	UDSF-14
3.19S	2,757	0	0	0	0	862	375	0	0	1,520	2,757	0	0.03	1.00	0.03	NONE
3.20S	4,753	0	0	0	0	618	0	3,775	0	360	4,753	0	0.02	1.00	0.02	NONE
3.21S	7,309	0	0	0	0	1,717	0	5,592	0	0	7,309	0	0.03	1.00	0.03	NONE
3.22S	5,952	0	0	0	0	1,180	0	4,772	0	0	5,952	0	0.02	1.00	0.02	NONE
3.23S	4,592	4,000	0	0	0	0	0	0	0	592	4,592	0	0.12	0.25	0.03	PP-1
3.24S	15,418	14,684	0	0	0	0	0	734	0	0	15,418	0	0.42	0.25	0.11	PP-2
3.25S	7,056	0	0	0	0	0	0	0	0	7,056	7,056	0	0.06	0.45	0.03	UDSF-1
3.26S	9,379	0	0	0	0	6,840	0	0	0	2,539	9,379	0	0.10	0.45	0.05	UDSF-1
3.27S	19,406	0	0	0	3,170	6,840	0	0	2,411	6,985	19,406	0	0.25	0.45	0.11	UDSF-1
3.28S	9,715	0	0	0	0	6,840	0	2,875		0	9,715	0	0.09	0.45	0.04	UDSF-1
3.29S	22,271	0	0	0	4,545	6,840	0	0	4,292	6,594	22,271	0	0.30	0.45	0.13	UDSF-1
3.30S	38,764	26,888	0	0	0	0	0	11,876	0	0	38,764	0	0.80	0.39	0.31	UDSF-6
3.31S	29,696	16,828	0	0	0	4,187	0	8,681	0	0	29,696	0	0.55	0.26	0.14	PP-3
3.32S	8,496	2,834	0	0	0	0	0	5,662	0	0	8,496	0	0.09	0.30	0.03	SSF-1
3.33S	15,683	11,386	0	0	0	0	0	2,465	0	1,832	15,683	0	0.35	1.00	0.35	NONE
3.34S	11,312	9,291	0	0	0	0	0	2,021	0	0	11,312	0	0.27	0.30	0.08	SSF-1
3.35S	19,717	19,143	0	0	0	0	0	574	0	0	19,717	0	0.55	0.25	0.14	PP-4
3.36S	9,080	0	0	0	0	5,374	0	3,706	0	0	9,080	0	0.07	0.30	0.02	SSF-1
3.37S	5,243	0	0	0	0	3,256	0	1,296	0	691	5,243	0	0.05	0.30	0.01	SSF-1
3.38S	11,320	3,135	0	0	0	0	0	6,359	0	1,826	11,320	0	0.12	0.30	0.04	SSF-1
3.39S	25,245	21,637	0	0	0	0	0	72	0	3,536	25,245	0	0.65	0.25	0.16	PP-6
3.40S	12,079	11,369	0	0	0	0	0	0	0	710	12,079	0	0.33	0.40	0.13	Filterra Tree Unit-1
3.41S	28,556	0	0	0	0	0	28,556	0	0	0	28,556	0	0.33	0.30	0.10	SSF-1
3.42S	30,149	0	0	0	0	0	30,149	0	0	0	30,149	0	0.35	0.30	0.11	SSF-1
3.43S	38,044	38,044	0	0	0	0	0	0	0	0	38,044	0	1.09	0.25	0.27	Pervious Pave
3.44S	57,864	9,608	815	0	0	0	0	1,961	0	45,480	57,864	0	0.72	0.27	0.19	UDSF-4
3.45S	9,505	9,275	0	0	0	0	0	195	0	35	9,505	0	0.27	0.13	0.04	PP-7
3.46S	14,040	13,736	0	0	0	0	0	72	0	232	14,040	0	0.40	0.25	0.10	PP-8
3.47S	18,550	17,895	0	0	0	0	0	580	0	75	18,550	0	0.52	0.25	0.13	PP-9
4.00S	7,659	2,626	0	0	0	0	0	4,721	0	312	7,659	0	0.09	1.00	0.09	NONE
4.01S	30,225	6,153	2,757	0	0	0	0	21,315	0	0	30,225	0	0.30	1.00	0.30	NONE
4.02S	4,419	1,920	1,926	0	0	0	0	573	0	0	4,419	0	0.11	1.00	0.11	NONE
4.03S	68,443	9,651	6,353	0	0	0	0	47,185	0	5,254	68,443	0	0.62	0.28	0.17	IB-3
4.04S	38,936	10,021	2,260	0	0	0	0	26,655	0	0	38,936	0	0.41	0.10	0.04	IB-2
4.05S	247,485	0	0	0	0	0	0	29,187	0	25,599	54,786	192,699	0.30	0.25	0.08	IB-1
4.06S	14,792	12,272	0	0	0	0	2,520	0	0	0	14,792	0	0.38	0.25	0.10	IB-1
4.07S	13,864	13,864	0	0	0	0	0	0	0	0	13,864	0	0.40	0.25	0.10	IB-1
4.08S	13,589	13,589	0	0	0	0	0	0	0	0	13,589	0	0.39	0.25	0.10	IB-1
4.09S	28,501	12,929	0	0	0	1,620	0	13,952	0	0	28,501	0	0.42	0.25	0.11	IB-1
4.10S	8,197	5,827	0	0	0	0	0	2,183	0	187	8,197	0	0.17	0.25	0.04	IB-1
4.11S	9,142	5,436	0	0	0	0	0	3,214	0	492	9,142	0	0.17	0.25	0.04	IB-1
4.12S	9,258	6,227	0	0	0	0	0	3,031	0	0	9,258	0	0.19	0.25	0.05	IB-1
4.13S	7,445	0	0	0	0	2,695	0	4,750	0	0	7,445	0	0.04	0.25	0.01	IB-1
4.14S	8,481	6,650	0	0	0	237	0	1,594	0	0	8,481	0	0.20	0.25	0.05	IB-1
4.15S	14,753	9,738	0	0	0	1,103	0	1,629	0	2,283	14,753	0	0.32	0.25	0.08	IB-1
4.16S	5,106	3,844	0	0	0	0	0	1,262	0	0	5,106	0	0.11	0.25	0.03	IB-1
4.17S	17,100	0	0	0	0	5,125	0	11,975	0	0	17,100	0	0.09	0.13	0.01	PP-10
4.18S	12,986	0	0	0	0	3,337	0	9,649	0	0	12,986	0	0.06	0.13	0.01	PP-10
4.19S	39,808	0	0	0	0	0	39,808	0	0	0	39,808	0	0.46	0.25	0.11	IB-1
4.20S	23,428	0	0	0	0	0	23,428	0	0	0	23,428	0	0.27	0.25	0.07	IB-1
4.21S	25,975	0	0	0	0	0	25,975	0	0	0	25,975	0	0.30	0.10	0.03	IB-2
4.22S	31,742	0	0	0	0	0	31,742	0	0	0	31,742	0	0.36	0.28	0.10	IB-3
4.23S	6,915	2,276	0	0	0	0	0	4,639	0	0	6,915	0	0.08	0.40	0.03	WB-4
4.24S	10,722	0	0	0	0	6,205	0	2,429	0	2,088	10,722	0	0.10	0.13	0.01	PP-11
4.25S	7,126	0	0	0	0	1,126	0	1,998	0	4,002	7,126	0	0.05	0.13	0.01	PP-10
4.26S	2,734	2,734	0	0	0	0	0	0	0	0	2,734	0	0.08	0.25	0.02	IB-1
4.27S	15,946	10,416	0	0	0	0	0	5,530	0	0	15,946	0	0.31	0.40	0.12	Filterra Tree Unit-2
4.28S	21,656	16,646	0	0	0	0	0	4,165	0	845	21,656	0	0.49	0.25	0.12	IB-1
4.29S	13,358	11,047	0	0	0	0	0	1,935	0	376	13,358	0	0.32	0.13	0.04	PP-5
5.0S	537,073	0	0	0	0	0	0	0	0	0	0	537,073	0.00	1.00	0.00	NONE
6.0S	13,164	0	0	639	0	0	0	1,729	0	0	2,368	10,796	0.02	1.00	0.02	NONE
7.00S	632,773	15,711	0	0	3,754	0	0	42,824	0	14,831	77,120	555,653	0.79	1.00	0.79	NONE
7.01S	68,960	0	0	0	0	0	0	366	0	3,121	3,487	65,473	0.03	1.00	0.03	NONE
7.02S	39,918	14,872	0	0	0	0	0	6,664	0	18,382	39,918	0	0.61	0.25	0.15	WB-2
7.03S	57,636	0	7,275	0	0	0	48	50,313	0	0	57,636	0	0.32	0.38	0.12	UDSF-7
7.04S	33,376	0	187	0	0	0	0	31,971	0	0	32,158	1,218	0.08	0.38	0.03	UDSF-7
7.05S	22,411	0	0	0	0	0	0	17,195	0	0	17,195	5,216	0.04	0.27	0.01	UDSF-8
7.06S	18,889	0	5,933	0	0	0	300	12,656	0	0	18,889	0	0.20	0.37	0.08	UDST-3
7.07S	11,137	0	4,388	0	0	0	300	6,449	0	0	11,137	0	0.14	0.25	0.04	UDST-4
8.0S	284,022	0	0	0	0	0	0	643	0	0	643	283,379	0.00	1.00	0.00	NONE
9.0S	664,290	0	0	0	0	0	0	0	0	0	0	664,290	0.00	1.00	0.00	NONE
10.0S	116,869	0	0	0	0	0	0	0	0	0	0	116,869	0.00	1.00	0.00	NONE
11.0S	437,447	0	0	0	0	0	0	0	0	0	0	437,447	0.00	1.00	0.00	NONE
12.0S	720,007	0	2,178	195	234	0	0	7,249	0	0	9,856	710,151	0.09	1.00	0.09	NONE
13.0S	298,029	0	0	0	0	0	0	0	0	0	0	298,029	0.00	1.00	0.00	NONE
14.0S	257,277	0	0	0	0	0	0	0	0	0	0	257,277	0.00	1.00	0.00	NONE
15.0S	223,819	0	0	0	0	0	0	0	0	0	0	223,819	0.00	1.00	0.00	NONE
16.0S	229,556	0	0	0	0	0	0	0	0	0	0	229,556	0.00	1.00	0.00	NONE
17.00S	71,654	8,486	1,641	0	0	0	0	11,459	0	0	21,586	50,068	0.32	1.00	0.32	NONE
17.01S	424,699	3,531	0	0	0	0	0	1,364	0	0	4,895	419,804	0.10	1.00	0.10	NONE
17.02S	80,928	1,920	6,949	0	0	0	384	71,675	0	0	80,928	0	0.42	0.39	0.16	UDSF-11
17.03S	22,625	7,739	9,123	0	0	0	0	5,763	0	0	22,625	0	0.50	0.39	0.19	UDSF-11
17.04S	31,042	11,159	5,038	0	0	450	300	14,095	0	0	31,042	0	0.51	0.31	0.16	UDSF-10
17.05S	25,870	0	1,998	0	0	0	0	18,689	0	0	20,687	5,183	0.10	0.27	0.03	UDSF-9
17.06S	44,989	0	0	0	0	0	0	44,989	0	0	44,989	0	0.10	0.31	0.03	UDST-6
17.07S	28,146	0	2,174	0	0	425	300	25,247	0	0	28,146	0	0.13	0.36	0.05	UDSF-12
17.08S	33,043	0	3,798	0	0	425	300	28,520	0	0	33,043	0	0.18	0.28	0.05	UDSF-13
17.09S	55,766	0	0	0	0	0	0	55,766	0	0	55,766	0	0.13	0.43	0.06	UDST-7
17.10S	79,779	0	3,339	0	0	0	0	2,390	0	0	5,729	74,050	0.10	0.40	0.04	WB-1
17.11S	16,081	5,640	377	0	0	0	0	10,064	0	0	16,081	0	0.20	0.40	0.08	WB-1
18.0S	117,581	0	0	0	0	0	0	0	0	0	0	117,581	0.00	1.00	0.00	NONE
19.0S	955,985	0	3,314	0	0	0	0	0	0	0	3,314	952,671	0.10	1.00	0.10	NONE
TOTAL (SF)	**9,323,159.00**	**525,086.00**	**89,405.00**	**834.00**	**15,920.00**	**114,104.00**	**223,522.00**	**976,151.00**	**19,930.00**	**266,124.00**	**2,231,076.00**	**7,092,083.00**	**26.81**	**-**	**10.16**	-

PRE DEVELOPMENT TIME OF CONCENTRATION TABLE

SUBCATCHMENT	FLOW TYPE	GROUND COVER	FLOW SEGMENT	LENGTH (FT.)	SLOPE (FT./FT.)	Tc (MINS)
1S	SHEET	WOODS	A-B	133.0	0.1200	13.0
2S	SHEET	WOODS	A-B	105.0	0.0570	14.5
3S	SHEET	WOODS	A-B	100.0	0.0200	21.1
	SHALLOW	GRASS	B-C	478.0	0.0050	16.1
4S	SHEET	WOODS	A-B	150.0	0.0620	18.6
	SHALLOW	WOODS	B-C	387.0	0.0280	7.7
5S	SHEET	WOODS	A-B	150.0	0.0130	34.7
	CHANNEL	DENSE WEEDS	B-C	255.0	0.0080	4.6
	SHALLOW	WOODS	C-D	336.0	0.0500	5.0
6S	SHEET	WOODS	A-B	36.0	0.1940	3.8
	SHALLOW	WOODS	B-C	198.0	0.0025	13.2
7S	SHEET	WOODS	A-B	100.0	0.0200	21.1
	SHALLOW	WOODS	B-C	430.0	0.0350	7.7
8S	SHEET	WOODS	A-B	100.0	0.0800	12.1
	SHALLOW	WOODS	B-C	535.0	0.0340	9.7
9S	SHEET	GRASS	A-B	90.0	0.0300	11.0
	SHALLOW	GRASS	B-C	504.0	0.0200	8.5
	SHALLOW	WOODS	C-D	336.0	0.0200	7.9
10S	SHEET	GRASS	A-B	100.0	0.0200	9.6
	SHALLOW	GRASS	B-C	136.0	0.0200	2.3
	SHALLOW	WOODS	C-D	125.0	0.0200	2.9

PRE DEVELOPMENT TIME OF CONCENTRATION TABLE (CONT.)

SUBCATCHMENT	FLOW TYPE	GROUND COVER	FLOW SEGMENT	LENGTH (FT.)	SLOPE (FT./FT.)	Tc (MINS)
11S	SHEET	WOODS	A-B	150.0	0.0100	38.6
	SHALLOW	WOODS	B-C	40.0	0.0100	1.3
12S	SHEET	WOODS	A-B	100.0	0.0500	14.7
	SHALLOW	WOODS	B-C	444.0	0.0500	6.6
13S	SHEET	WOODS	A-B	100.0	0.0100	27.9
	SHALLOW	PAVED	B-C	287.0	0.0100	2.4
14S	SHEET	WOODS	A-B	100.0	0.0200	21.1
	SHALLOW	WOODS	B-C	464.0	0.0200	10.9
15S	SHEET	WOODS	A-B	68.0	0.1900	6.3
	SHALLOW	WOODS	B-C	382.0	0.0520	5.6
16S	SHEET	WOODS	A-B	100.0	0.0500	14.7
	SHALLOW	WOODS	B-C	265.0	0.0210	6.1
17S	SHEET	GRASS	A-B	62.0	0.0970	5.1
	SHALLOW	GRASS	B-C	698.0	0.0200	11.8
18S	SHEET	WOODS	A-B	150.0	0.0330	23.9
	SHALLOW	WOODS	B-C	348.0	0.0860	4.0
19S	SHEET	WOODS	A-B	100.0	0.1000	11.1
	SHALLOW	WOODS	B-C	162.0	0.0050	7.6

POST DEVELOPMENT TIME OF CONCENTRATION TABLE

SUBCATCHMENT	FLOW TYPE	GROUND COVER	FLOW SEGMENT	LENGTH (FT.)	SLOPE (FT./FT.)	Tc (MINS)
1.00S	SHEET	WOODS	A-B	133.0	0.1200	13.0
1.01S	DIRECT	-	-	-	-	5.0
2.00S	SHEET	WOODS	A-B	105.0	0.0570	14.5
3.00S	DIRECT	-	-	-	-	5.0
3.01S	DIRECT	-	-	-	-	5.0
3.02S	DIRECT	-	-	-	-	5.0
3.03S	DIRECT	-	-	-	-	5.0
3.04S	SHEET	GRASS	A-B	58.0	0.0310	5.2
3.05S	DIRECT	-	-	-	-	5.0
3.06S	SHEET	GRASS	A-B	89.0	0.0090	12.1
3.07S	DIRECT	-	-	-	-	5.0
3.08S	SHEET	GRASS	A-B	109.0	0.0570	6.8
3.09S	DIRECT	-	-	-	-	5.0
3.10S	DIRECT	-	-	-	-	5.0
3.11S	DIRECT	-	-	-	-	5.0
3.12S	SHEET	GRASS	A-B	80.0	0.0300	6.9
3.13S	DIRECT	-	-	-	-	5.0
3.14S	SHEET	GRASS	A-B	114.0	0.0170	11.4
3.15S	SHEET	GRASS	A-B	122.0	0.0120	13.9
3.16S	DIRECT	-	-	-	-	5.0
3.17S	SHEET	GRASS	A-B	64.0	0.0100	8.9
3.18S	SHEET	WOODS	A-B	100.0	0.0800	12.1
	SHALLOW	WOODS	B-C	88.0	0.1590	0.7
3.19S	DIRECT	-	-	-	-	5.0
3.20S	SHEET	GRASS	A-B	42.0	0.0210	4.7
	SHALLOW	GRASS	B-C	52.0	0.0077	1.4
3.21S	SHEET	GRASS	A-B	42.0	0.0210	4.7
	SHALLOW	GRASS	B-C	49.0	0.0070	1.4
3.22S	SHEET	GRASS	A-B	42.0	0.0210	4.7
	SHALLOW	GRASS	B-C	50.0	0.0070	1.4
3.23S	DIRECT	-	-	-	-	5.0
3.24S	DIRECT	-	-	-	-	5.0
3.25S	DIRECT	-	-	-	-	5.0
3.26S	DIRECT	-	-	-	-	5.0
3.27S	DIRECT	-	-	-	-	5.0
3.28S	DIRECT	-	-	-	-	5.0
3.29S	DIRECT	-	-	-	-	5.0
3.30S	DIRECT	-	-	-	-	5.0
3.31S	DIRECT	-	-	-	-	5.0
3.32S	DIRECT	-	-	-	-	5.0
3.33S	DIRECT	-	-	-	-	5.0
3.34S	DIRECT	-	-	-	-	5.0
3.35S	DIRECT	-	-	-	-	5.0
3.36S	DIRECT	-	-	-	-	5.0
3.37S	SHEET	PAVED	A-B	34.0	0.0067	0.8
	SHEET	GRASS	B-C	68.0	0.0180	7.4
3.38S	DIRECT	-	-	-	-	5.0
3.39S	DIRECT	-	-	-	-	5.0
3.40S	DIRECT	-	-	-	-	5.0
3.41S	DIRECT	-	-	-	-	5.0
3.42S	DIRECT	-	-	-	-	5.0
3.43S	DIRECT	-	-	-	-	5.0
3.44S	SHEET	GRASS	A-B	100.0	0.0325	7.9
	SHALLOW	GRASS	B-C	207.0	0.0190	3.6
3.45S	DIRECT	-	-	-	-	5.0
3.46S	DIRECT	-	-	-	-	5.0
3.47S	DIRECT	-	-	-	-	5.0
4.00S	DIRECT	-	-	-	-	5.0
4.01S	DIRECT	-	-	-	-	5.0
4.02S	DIRECT	-	-	-	-	5.0
4.03S	SHEET	GRASS	A-B	56.0	0.1900	2.5
	SHEET	GRASS	B-C	98.0	0.0200	9.5
4.04S	DIRECT	-	-	-	-	5.0
4.05S	SHEET	WOODS	A-B	150.0	0.0560	19.4
	SHALLOW	WOODS	B-C	173.0	0.0490	2.6
4.06S	DIRECT	-	-	-	-	5.0
4.07S	DIRECT	-	-	-	-	5.0
4.08S	DIRECT	-	-	-	-	5.0
4.09S	DIRECT	-	-	-	-	5.0
4.10S	DIRECT	-	-	-	-	5.0
4.11S	DIRECT	-	-	-	-	5.0
4.12S	SHEET	GRASS	A-B	33.0	0.0160	4.3
	SHEET	PAVED	B-C	76.0	0.0310	0.8
4.13S	SHEET	GRASS	A-B	48.0	0.0150	6.0
	SHEET	PAVED	B-C	8.0	0.0100	0.2
	SHEET	GRASS	C-D	26.0	0.0460	2.4
4.14S	DIRECT	-	-	-	-	5.0
4.15S	DIRECT	-	-	-	-	5.0
4.16S	DIRECT	-	-	-	-	5.0
4.17S	SHEET	GRASS	A-B	40.0	0.0270	4.1
	SHEET	PAVED	B-C	16.0	0.0240	0.3
	SHEET	GRASS	C-D	84.0	0.0090	11.6
4.18S	SHEET	GRASS	A-B	46.0	0.0250	4.7
	SHEET	PAVED	B-C	11.0	0.0250	0.2
	SHEET	GRASS	C-D	64.0	0.0160	7.4

POST DEVELOPMENT TIME OF CONCENTRATION TABLE (CONT.)

SUBCATCHMENT	FLOW TYPE	GROUND COVER	FLOW SEGMENT	LENGTH (FT.)	SLOPE (FT./FT.)	Tc (MINS)
4.19S	DIRECT	-	-	-	-	5.0
4.20S	DIRECT	-	-	-	-	5.0
4.21S	DIRECT	-	-	-	-	5.0
4.22S	DIRECT	-	-	-	-	5.0
4.23S	DIRECT	-	-	-	-	5.0
4.24S	DIRECT	-	-	-	-	5.0
4.25S	SHEET	GRASS	A-B	74.0	0.0096	10.2
4.26S	DIRECT	-	-	-	-	5.0
4.27S	DIRECT	-	-	-	-	5.0
4.28S	DIRECT	-	-	-	-	5.0
4.29s	DIRECT	-	-	-	-	5.0
5.0s	SHEET	WOODS	A-B	150.0	0.0130	34.7
	CHANNEL	DENSE WEEDS	B-C	255.0	0.0080	4.6
	SHALLOW	WOODS	C-D	336.0	0.0500	5.0
6.0S	SHEET	WOODS	A-B	36.0	0.1940	3.8
	SHALLOW	WOODS	B-C	198.0	0.0025	13.2
7.00S	SHEET	WOODS	A-B	100.0	0.0600	13.6
	SHALLOW	WOODS	B-C	445.0	0.0220	10.0
7.01S	SHEET	WOODS	A-B	72.0	0.0840	9.2
7.02S	SHEET	GRASS	A-B	21.0	0.1900	1.1
	CHANNEL	GRASS	B-C	450.0	0.0130	2.7
	SHALLOW	GRASS	C-D	140.0	0.0050	4.7
7.03S	SHEET	GRAVEL	A-B	50.0	0.0050	1.2
	SHEET	GRASS	B-C	100.0	0.0050	16.8
	SHALLOW	GRASS	C-D	60.0	0.0100	1.4
	CHANNEL	GRASS	D-E	150.0	0.0120	0.9
7.04S	SHEET	GRASS	A-B	150.0	0.0100	17.6
	SHALLOW	GRASS	B-C	64.0	0.0100	1.5
	CHANNEL	GRASS	C-D	59.0	0.0080	0.4
7.05S	SHEET	GRASS	A-B	150.0	0.0100	17.6
	SHALLOW	GRASS	B-C	40.0	0.0100	1.0
	CHANNEL	GRASS	C-D	65.0	0.0150	0.3
7.06S	SHEET	GRASS	A-B	140.0	0.0100	16.7
7.07S	SHEET	GRASS	A-B	75.0	0.0100	10.1
8.0S	SHEET	WOODS	A-B	100.0	0.0800	12.1
	SHALLOW	WOODS	B-C	535.0	0.0340	9.7
9.0S	SHEET	GRASS	A-B	90.0	0.0300	11.0
	SHALLOW	GRASS	B-C	504.0	0.0200	8.5
	SHALLOW	WOODS	C-D	336.0	0.0200	7.9
10.0S	SHEET	GRASS	A-B	100.0	0.0200	9.6
	SHALLOW	GRASS	B-C	136.0	0.0200	2.3
	SHALLOW	WOODS	C-D	125.0	0.0200	2.9
11.0S	SHEET	WOODS	A-B	150.0	0.0100	38.6
	SHALLOW	WOODS	B-C	40.0	0.0100	1.3
12.0S	SHEET	WOODS	A-B	100.0	0.0500	14.7
	SHALLOW	WOODS	B-C	444.0	0.0500	6.6
13.0S	SHEET	WOODS	A-B	100.0	0.0100	27.9
	SHALLOW	PAVED	B-C	287.0	0.0100	2.4
14.0S	SHEET	WOODS	A-B	100.0	0.0200	21.1
	SHALLOW	WOODS	B-C	464.0	0.0200	10.9
15.0S	SHEET	WOODS	A-B	68.0	0.1900	6.3
	SHALLOW	WOODS	B-C	382.0	0.0520	5.6
16.0S	SHEET	WOODS	A-B	100.0	0.0500	14.7
	SHALLOW	WOODS	B-C	265.0	0.0210	6.1
17.00S	DIRECT	-	-	-	-	5.0
17.01S	SHEET	WOODS	A-B	150.0	0.0350	23.4
	SHALLOW	WOODS	B-C	154.0	0.0430	3.0
	SHALLOW	GRASS	C-D	197.0	0.0100	4.7
	CHANNEL	GRASS	D-E	55.0	0.0180	0.3
17.02S	SHEET	GRAVEL	A-B	60.0	0.0100	1.0
	SHEET	GRASS	B-C	90.0	0.0100	11.7
	SHALLOW	GRASS	C-D	100.0	0.0250	1.5
17.03S	DIRECT	-	-	-	-	5.0
17.04S	DIRECT	-	-	-	-	5.0
17.05S	SHEET	GRASS	A-B	100.0	0.0250	8.8
	SHALLOW	GRASS	B-C	41.0	0.1500	0.3
17.06S	SHEET	GRASS	A-B	150.0	0.0100	17.6
	SHALLOW	GRASS	B-C	96.0	0.0100	2.3
17.07	SHEET	GRASS	A-B	140.0	0.0160	13.8
	CHANNEL	GRASS	B-C	257.0	0.0140	1.4
17.08S	SHEET	GRASS	A-B	138.0	0.0200	12.5
	CHANNEL	GRASS	B-C	132.0	0.0070	1.1
17.09S	SHEET	GRASS	A-B	150.0	0.0100	17.6
	SHALLOW	GRASS	B-C	111.0	0.0100	2.6
17.10S	SHEET	GRASS	A-B	62.0	0.0970	5.1
	SHALLOW	GRASS	B-C	249.0	0.0200	4.2
	CHANNEL	GRASS	C-D	153.0	0.0200	0.7
17.11S	DIRECT	-	-	-	-	5.0
18.0S	SHEET	WOODS	A-B	150.0	0.0330	23.9
	SHALLOW	WOODS	B-C	348.0	0.0860	4.0
19.0S	SHEET	WOODS	A-B	100.0	0.1000	11.1
	SHALLOW	WOODS	B-C	147.0	0.0050	6.9

CRAIG BURGESS, P.E. #12638

STATE OF MAINE
CRAIG A. BURGESS
No. 12638
LICENSED PROFESSIONAL ENGINEER

LICENSED LANDSCAPE ARCHITECT
KYLIE S. MASON
3335
STATE OF MAINE

DESIGNED	CHECKED
CAB	KSM

REV:	BY:	DATE:	STATUS:
J	CAB	02-11-16	BID DOCUMENTS
I	CAB	12-18-15	CONSTRUCTION DOCUMENTS
H	CAB	11-25-15	RESUBMITTED TO DEP
G	CAB	11-17-15	REVISED PER CITY COMMENTS & REISSUED
F	CAB	11-12-15	ISSUED FOR 85%
E	CAB	10-28-15	SUBMITTED FOR CITY SITE PLAN REVIEW & APPROVAL
D	CAB	10-20-15	ISSUED FOR 75%

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
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75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-5656

POST-DEVELOPMENT STORMWATER PLAN
OF:
SANFORD HIGH SCHOOL & TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, MAINE 04073
FOR:
SANFORD SCHOOL DEPARTMENT & STATE OF MAINE DEPARTMENT OF EDUCATION
SANFORD, MAINE 04073

PROJECT NO.	SCALE
12233	1" = 100'

SHEET C75 OF C75

12233SWP-POST.dwg, TAB: Stormwater Calcs

SANFORD, ME

ROUTE 4 (ALFRED ROAD) IMPROVEMENTS
MAINEDOT WIN 15116.75

APPLICANT:

SANFORD HIGH SCHOOL &
REGIONAL TECHNICAL CENTER

ROUTE 109 & ROUTE 4
SANFORD, ME 04073

ENGINEER / SURVEYOR:

SEBAGO TECHNICS
CIVIL ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE

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South Portland, ME 04106
Tel. 207-200-2100

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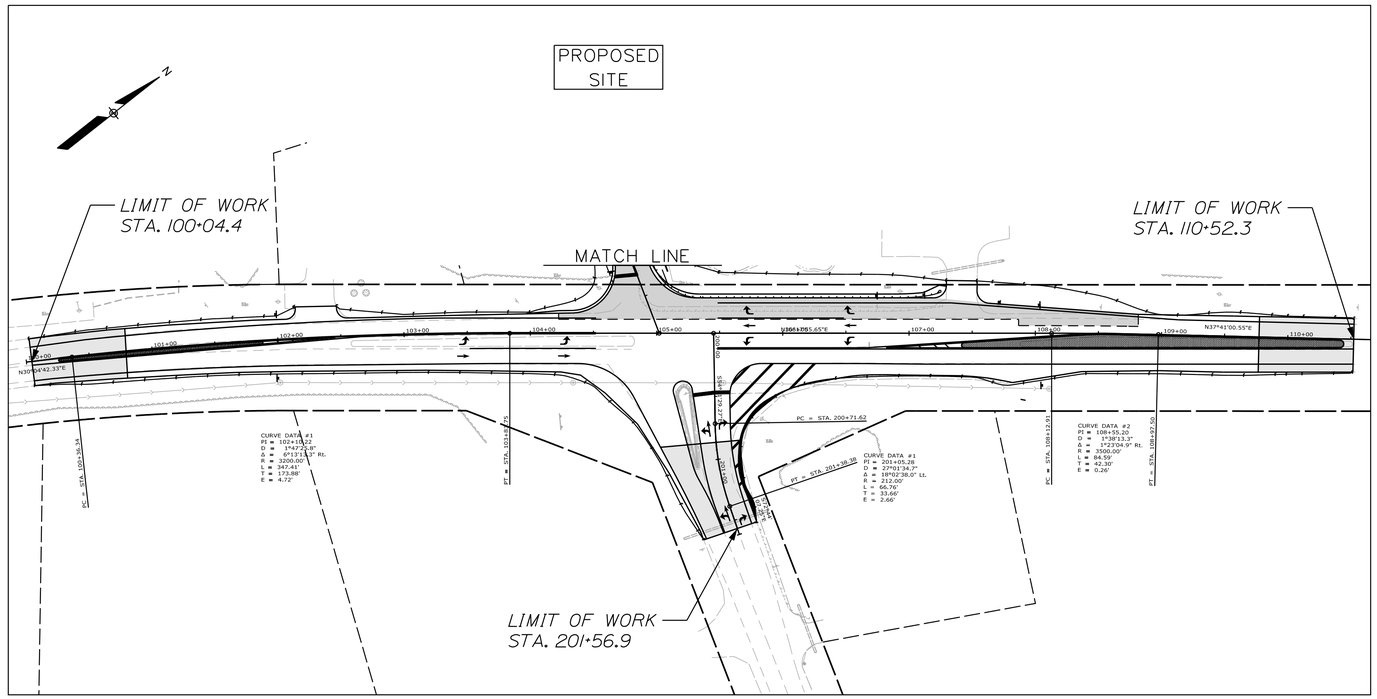
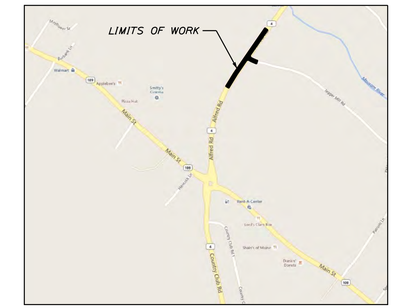


SCALE: 1"=60'



LOCATION MAP N.T.S.

SHEET INDEX:

SHEET	DESCRIPTION
OS-1	COVER SHEET
OS-2	GENERAL NOTES / TYPICAL SECTIONS
OS-3	LAYOUT PLAN
OS-4-OS-10	CROSS SECTIONS
OS-11-OS-12	ROW PLANS

UTILITY CONTACTS:

TRACY PORELL
FAIRPOINT COMMUNICATIONS
3 COMMERCE DRIVE
KENNEBUNK, ME 04043
(T) 207-797-1015

TONY MATOIN
CENTRAL MAINE POWER
438 ALFRED ROAD
ALFRED, ME 04002
(T) 207-490-3053

MATT HILL
DEPARTMENT OF PUBLIC WORKS
156 SCHOOL STREET
SANFORD, ME 04043
(T) 207-324-9135

MIKE GRAVEL
METROCAST CABLE
21 JARVIS AVENUE
ROCHESTER, NH 03868
(T) 603-330-7741
(C) 603-765-3531

PHILIP TUCKER
SANFORD SEWERAGE DISTRICT
P.O. BOX 338
SANFORD, ME 04043
(T) 207-324-5313
(C) 207-467-0910

GENERAL NOTES

1. ALL WORK DEPICTED HEREIN IS IN ACCORDANCE WITH MAINEDOT TRAFFIC MOVEMENT PERMIT NO. 01-00171-A-N.

2. ALL WORK UNDER THIS CONTRACT TO BE GOVERNED BY THE "STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, REVISION OF NOVEMBER 2014" AND "STANDARD DETAILS, REVISION OF NOVEMBER 2014" WITH LATEST UPDATES.

3. MAINTENANCE OF TRAFFIC SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), LATEST EDITION.

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

5. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.

6. ANY DAMAGE TO THE SLOPES BEYOND THE LIMITS OF WORK DESCRIBED HEREIN CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. ALL WORK, EQUIPMENT AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

7. PAVEMENT DEPTHS SHOWN ON THE TYPICAL SECTIONS ARE INTENDED TO BE NOMINAL.

8. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES.

9. STATIONS REFERENCED ARE APPROXIMATE.

10. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EXISTING UTILITY LOCATIONS AND/OR ELEVATIONS ARE APPROXIMATE. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL EXISTING SUBSURFACE LINES AND STRUCTURES MAY NOT BE SHOWN. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH TEH REQUIREMENTS OF THE MAINE "DIG SAFE LAW" CHAPTER 718, ENACTED ON 8-11-00. CONTRACTOR SHALL TAKE NOTICE OF THE FOLLOWING RULES:

A. ENFORCEMENT - THE ADMINISTRATIVE PENALTY FOR VIOLATION OF MAINE DIG SAFE LAW IS AS FOLLOWS:
FIRST OFFENSE = $500.00
SUBSEQUENT OFFENCES (WITHIN 12 MONTHS) = $5,000.00

THE PUC MAY ALSO REQUIRE A PERSON WHO VIOLATES THE MAINE DIG SAFE LAW TO PARTICIPATE, AT THE EXPENSE OF THE VIOLATOR, IN AN EDUCATIONAL PROGRAM DEVELOPED AND CONDUCTED BY DIG SAFE SYSTEM, INC.

B. EXCAVATION METHODS - IF EXCAVATING WITHIN 18 INCHES OF ANY MARKED UNDERGROUND FACILITY, AN EXCAVATOR MAY NOT USE MECHANICAL MEANS OF EXCAVATION (THE USE OF ANY DEVICE OR TOOL POWERED BY AN ENGINE) UNTIL THE UNDERGROUND FACILITY IS EXPOSED.

EXCEPTIONS: THIS RULE DOES NOT APPLY IF USING AIR VACUUM METHODS OF EXCAVATION. MECHANICAL MEANS MAY BE USED FOR INITIAL PENETRATION OR REMOVAL OF PAVEMENT, ROCK OR OTHER MATERIAL REQUIRING MACHINERY.

EMERGENCIES: PREVIOUSLY, AN EXCAVATOR WAS NOT REQUIRED TO NOTIFY DIG SAFE PRIOR TO AN EMERGENCY EXCAVATION. NOW IN AN EMERGENCY SITUATION, AN EXCAVATOR MAY COMMENCE EXCAVATION AFTER HAVING TAKEN ALL REASONABLE STEPS CONSISTENT WITH THE EMERGENCY AND PREMARK THE AREA AS SOON AS POSSIBLE AFTER RECEIVING NOTIFICATION OF THE EMERGENCY.

11. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED.

12. ALL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH 3" HOT MIX ASPHALT AND 11" AGGREGATE SUBBASE COURSE GRAVEL.

13. UNTREATED AGGREGATE SURFACE COURSE MAY ALSO MEET THE GRADATION REQUIREMENTS ADD SHOULDER AGGREGATE.

14. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

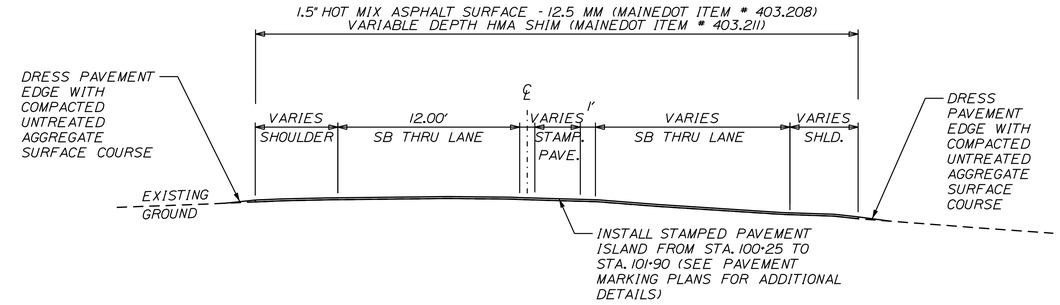
15. ALL EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

16. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS WILL BE INSTALLED AT EACH GUARDRAIL END.

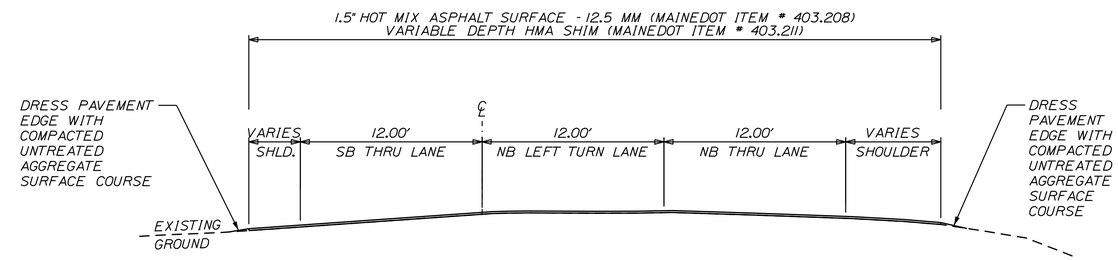
17. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL SLOPES. SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL GUARDRAIL FILL SLOPES.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THE MAIL WILL BE DELIVERABLE.

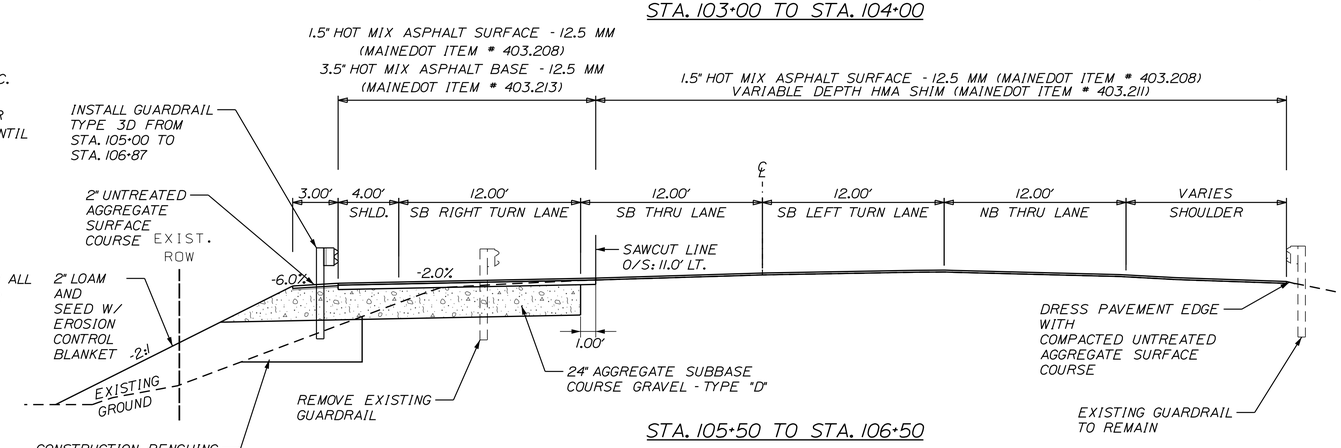
19. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION ON THE PROJECT.



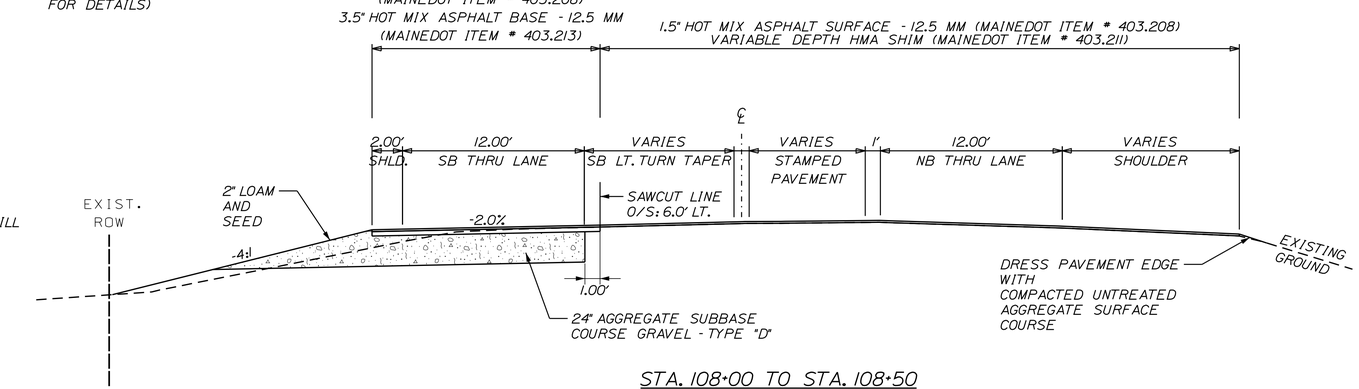
STA. 100+50 TO STA. 101+50



STA. 103+00 TO STA. 104+00



STA. 105+50 TO STA. 106+50



STA. 108+00 TO STA. 108+50

NOT FOR CONSTRUCTION

DESIGNED	CHECKED
BRL	SSS

REV#	BY:	DATE:	STATUS:
4	BRL	12-28-15	PAVEMENT DESIGN REVISED BASED ON MAINEDOT COMMENTS
3	BRL	12-4-15	REVISED PLANS BASED ON MAINEDOT COMMENTS
2	BRL	9-18-15	SUBMITTED TO MAINEDOT FOR PRELIMINARY REVIEW
1	BRL	9-3-15	SUBMITTED TO CONTRACTOR FOR PRELIMINARY PRICING

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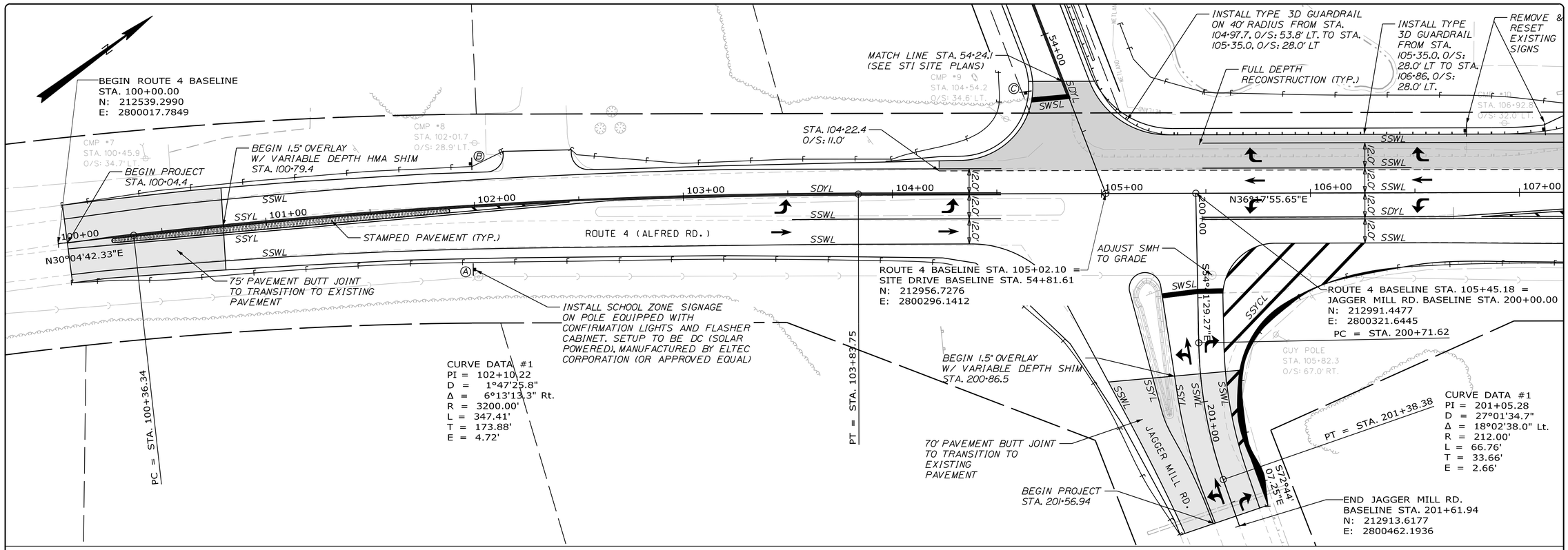
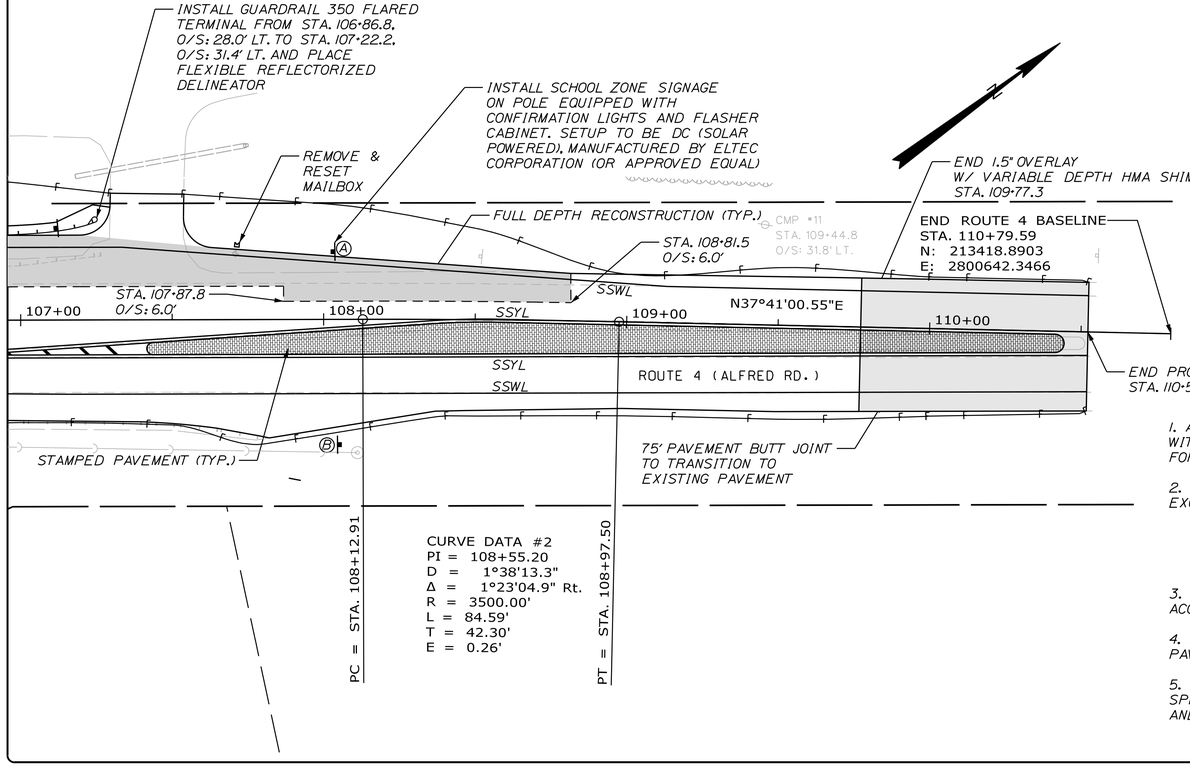
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel: 207-783-9595

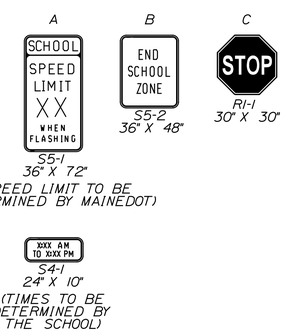
GENERAL NOTES / TYPICAL SECTIONS
OF:
ROUTE 4 (ALFRED RD.)
SANFORD, ME 04073
FOR:
SANFORD HIGH SCHOOL & REGIONAL TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, ME 04073

PROJECT NO.	SCALE
12233	1" = 5'

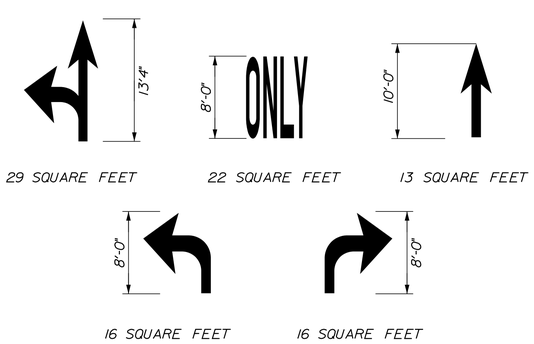




SIGN LEGEND



LANE MARKINGS
NOT TO SCALE



PAVEMENT MARKING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DOT, FHWA, 2009 EDITION.

2. ALL PAVEMENT MARKING LINES SHALL BE PAINT AND 4" WIDE EXCEPT FOR:

   SOLID WHITE STOP LINES - 24"

   SOLID SINGLE YELLOW CHEVRON LINES - 12"

3. PAINTED PAVEMENT MARKINGS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 627.

4. STREET PRINT TM PAVEMENT TEXTURING SHALL BE USED FOR ALL STAMPED PAVEMENT LOCATIONS SHOWN ON THE PLANS.

5. ALL STAMPED PAVEMENT SHALL BE COLORED A "BRICK RED" COLOR WITH THE SP150E MATERIAL. A TEMPLATE PATTERN AND COLOR IS TO BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE THE APPLICATION BEGINS

LEGEND

SDYL	SOLID DOUBLE YELLOW LINE
SSYL	SOLID SINGLE YELLOW LINE
SSWL	SOLID SINGLE WHITE LINE
SWSL	SOLID WHITE STOP LINE
SSYCL	SOLID SINGLE YELLOW CHEVRON LINE

NOT FOR CONSTRUCTION

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BRL	SSS

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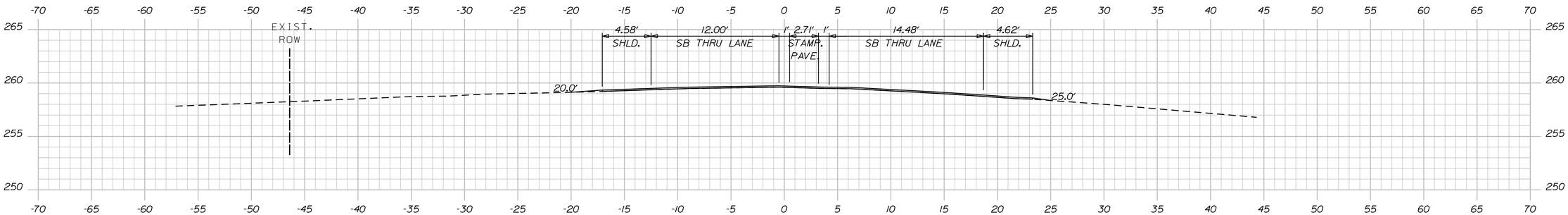
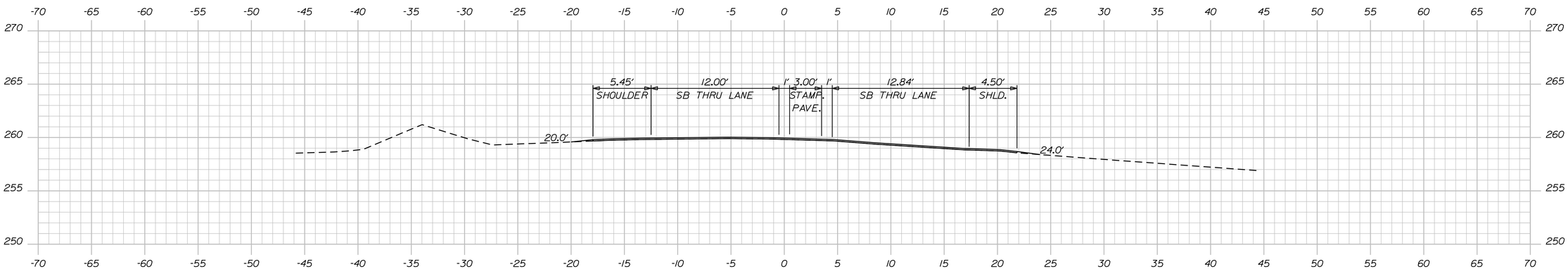
LAYOUT PLAN
OF:
ROUTE 4 (ALFRED RD.)
SANFORD, ME 04073

FOR:
SANFORD HIGH SCHOOL & REGIONAL TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, ME 04073

PROJECT NO.	SCALE
12233	1" = 25'

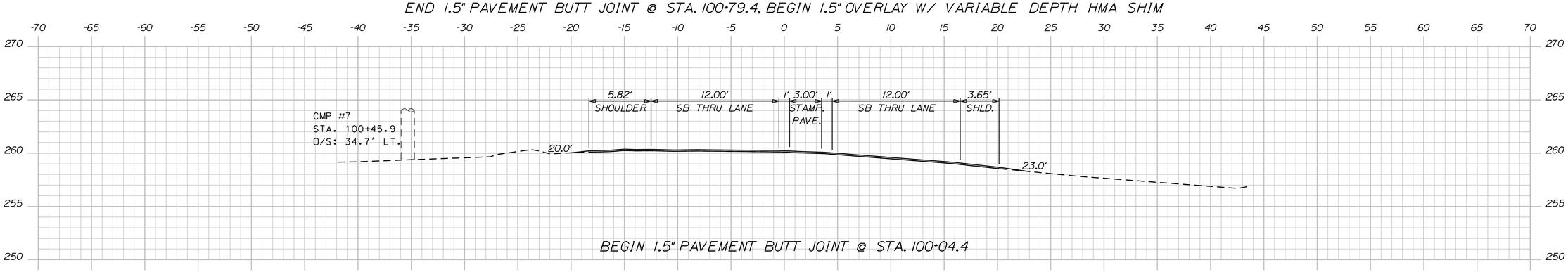


101+50.00



101+00.00

END 1.5" PAVEMENT BUTT JOINT @ STA. 100+79.4, BEGIN 1.5" OVERLAY W/ VARIABLE DEPTH HMA SHIM



BEGIN 1.5" PAVEMENT BUTT JOINT @ STA. 100+04.4

100+50.00

NOT FOR CONSTRUCTION

DESIGNED	CHECKED
BRL	SSS

REV#	BY:	DATE:	STATUS:
4	BRL	12-28-15	REVISED PAVEMENT DESIGN BASED ON MAINEDOT COMMENTS
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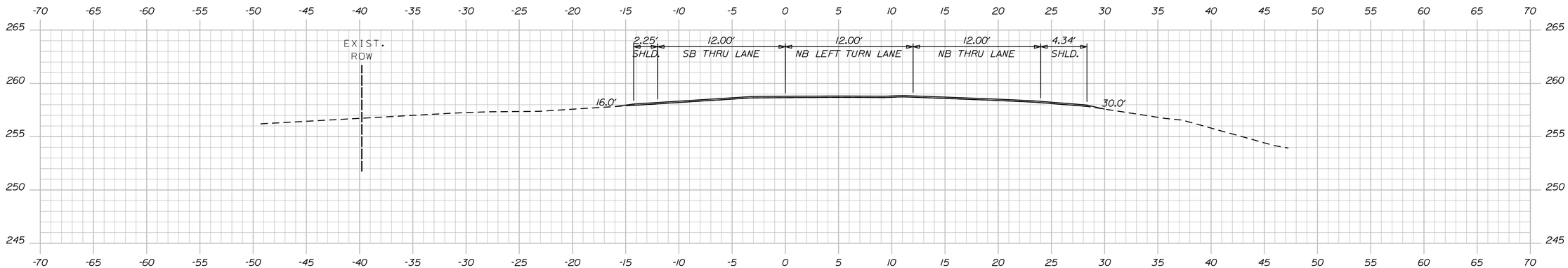
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel: 207-783-9535

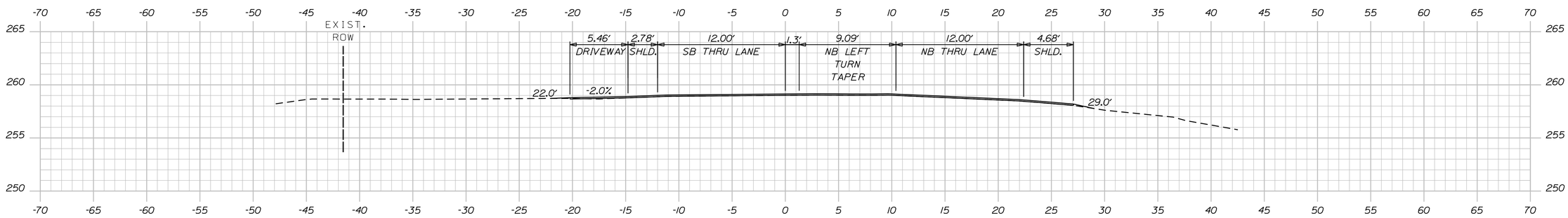
CROSS SECTIONS
OF:
ROUTE 4 (ALFRED RD.)
SANFORD, ME 04073

FOR:
SANFORD HIGH SCHOOL & REGIONAL TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, ME 04073

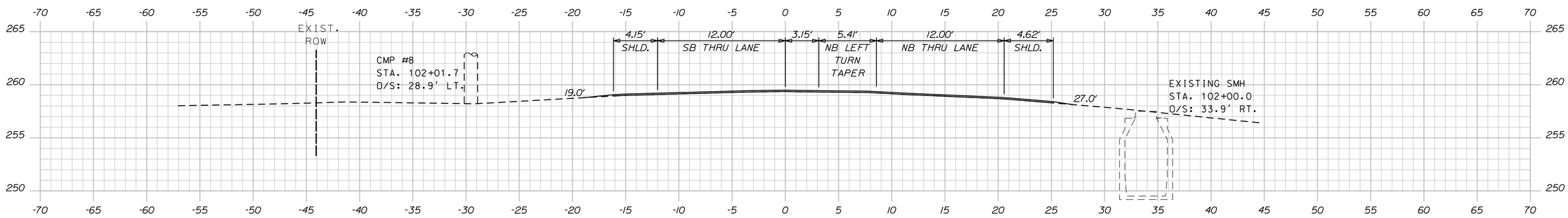
PROJECT NO.	SCALE
12233	1" = 5'



103+00.00



102+50.00 (DRIVEWAY LEFT)



102+00.00

NOT FOR CONSTRUCTION

DESIGNED	CHECKED
BRL	SSS

REV#	BY:	DATE:	STATUS:
4	BRL	12-28-15	REVISED PAVEMENT DESIGN BASED ON MAINEDOT COMMENTS
3	BRL	12-4-15	REVISED PLANS BASED ON MAINEDOT COMMENTS
2	BRL	9-18-15	SUBMITTED TO MAINEDOT FOR PRELIMINARY REVIEW
1	BRL	9-3-15	SUBMITTED TO CONTRACTOR FOR PRELIMINARY PRICING

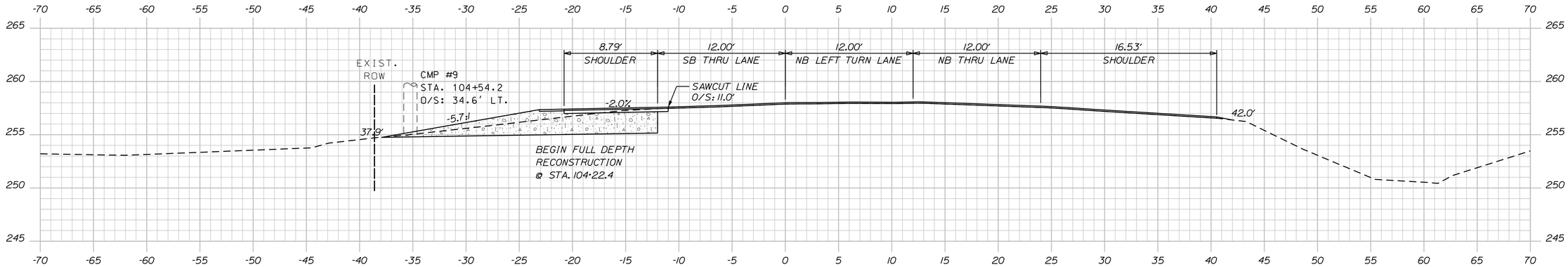
ALTERATIONS, NOT AUTHORIZED BY THE ORIGINAL SEAL OF SEBAGO TECHNICS, INC. WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

SEBAGO TECHNICS
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 1A South Portland, ME 04106 Tel. 207-200-2100
250 Goddard Rd. Suite B Lewiston, ME 04240 Tel. 207-783-9595

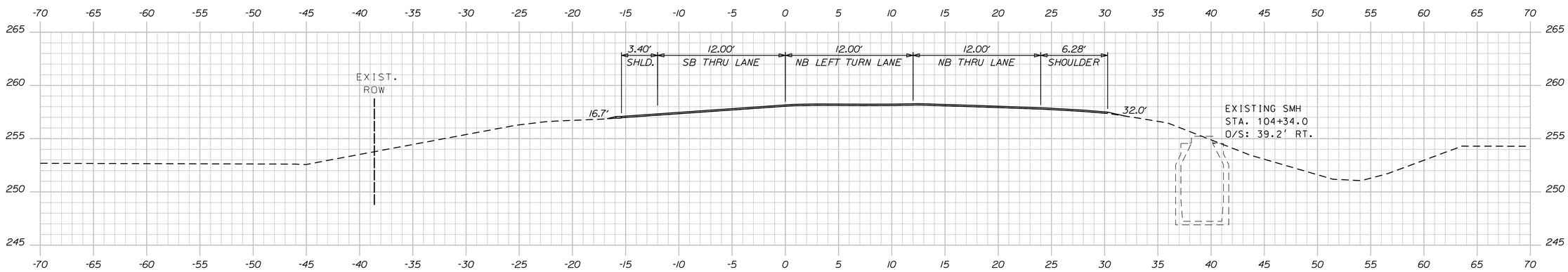
CROSS SECTIONS
OF:
ROUTE 4 (ALFRED RD.)
SANFORD, ME 04073

FOR:
SANFORD HIGH SCHOOL & REGIONAL TECHNICAL CENTER
ROUTE 109 & ROUTE 4
SANFORD, ME 04073

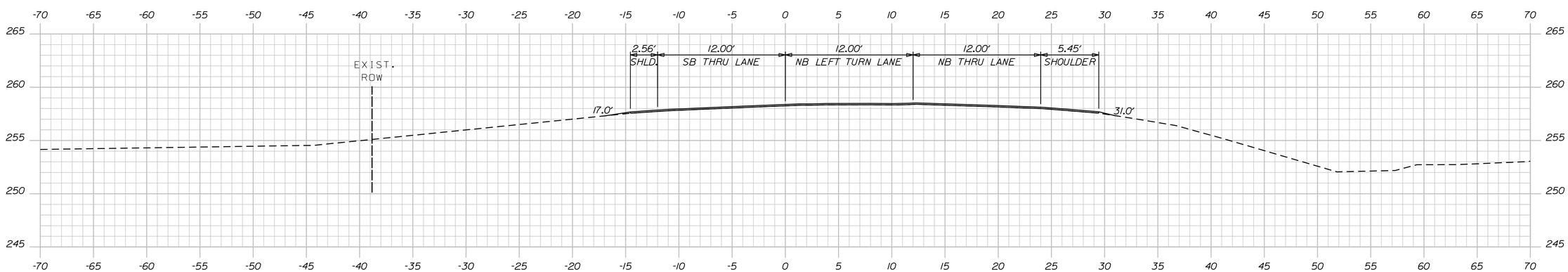
PROJECT NO.	SCALE
12233	1" = 5'



104+50.00



104+00.00



103+50.00

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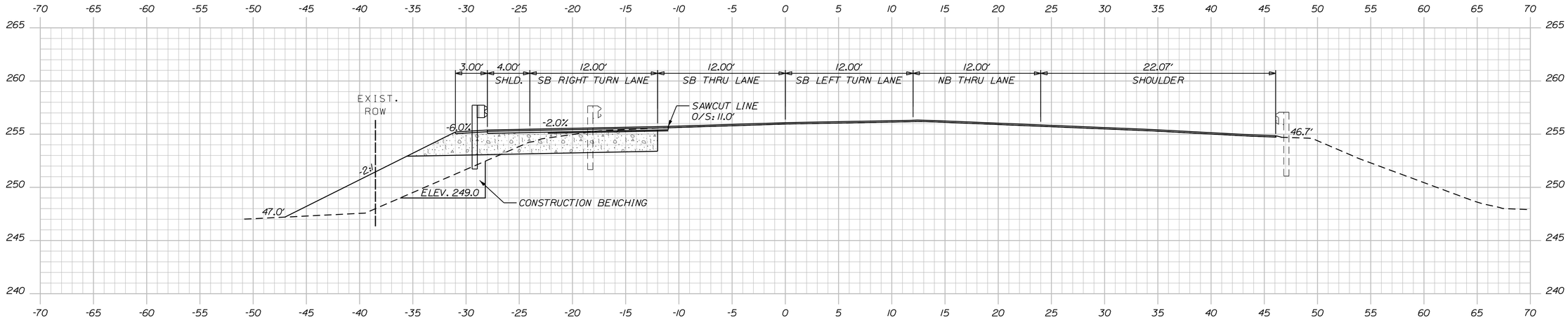
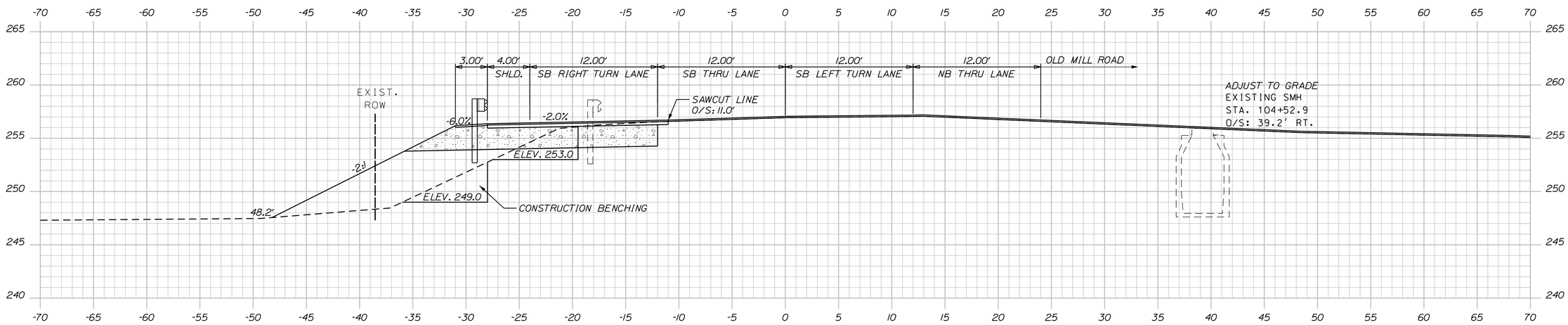
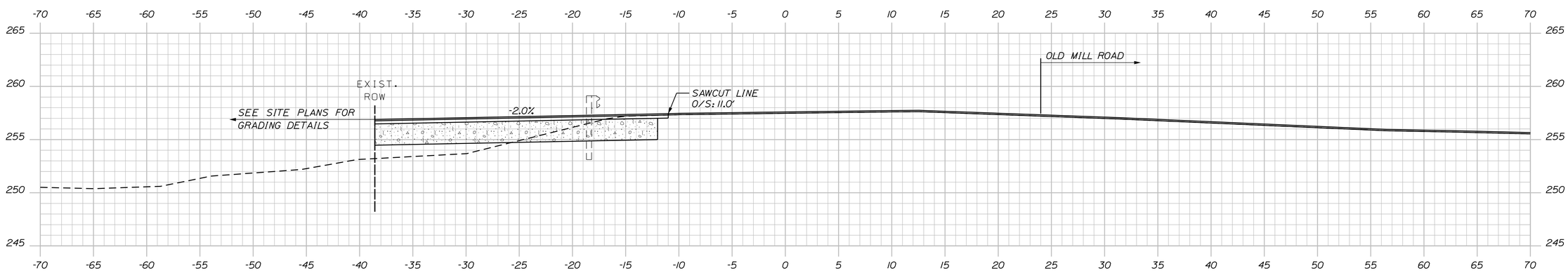


106+00.00



105+50.00



105+00.00

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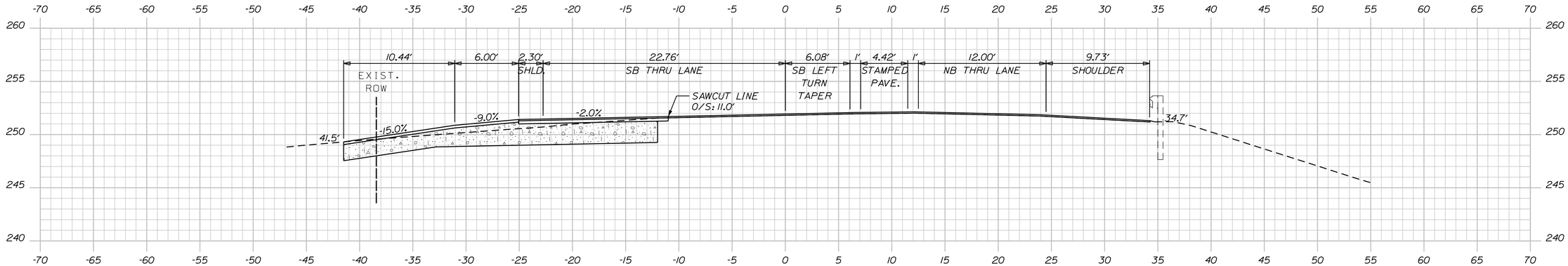
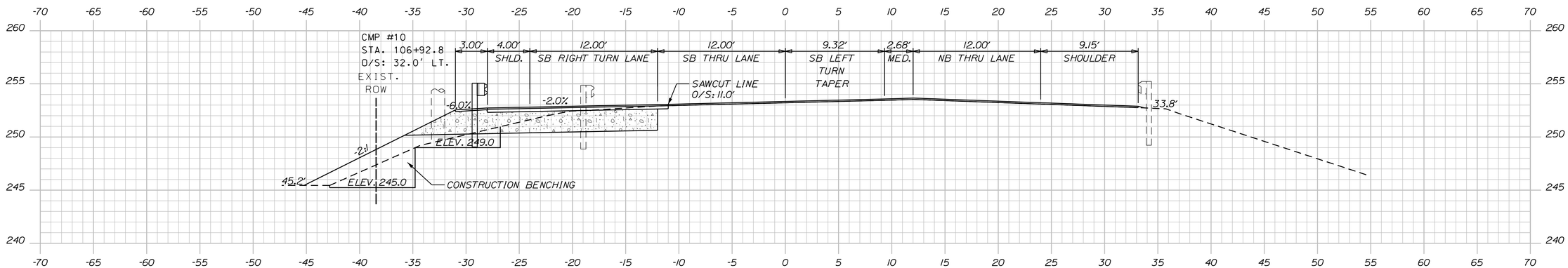
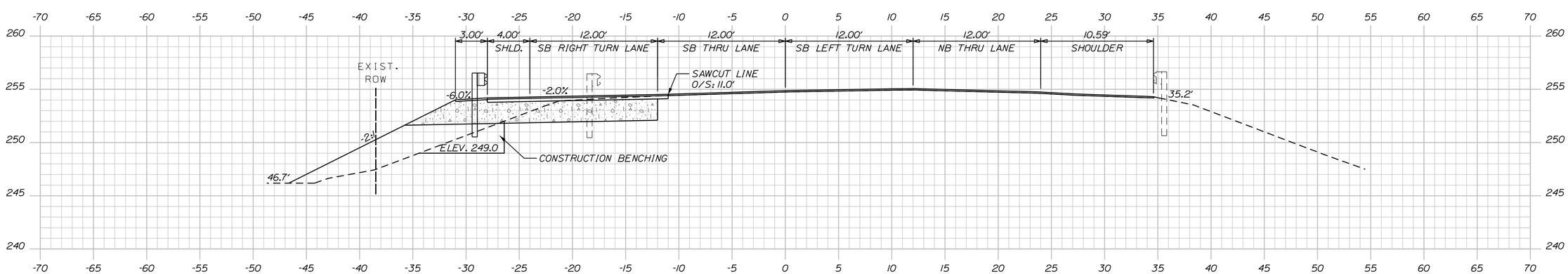


107+50.00 (DRIVEWAY LEFT)



107+00.00



106+50.00

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STATUS:

THE REPRODUCTION, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC., ANY INTERPRETATION NOT AUTHORIZED BY SEBAGO TECHNICS, INC. OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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PROJECT NO.	SCALE
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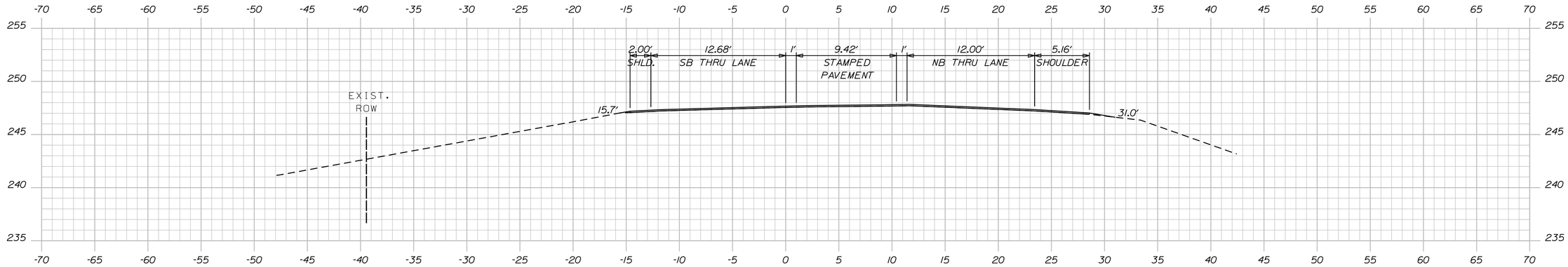
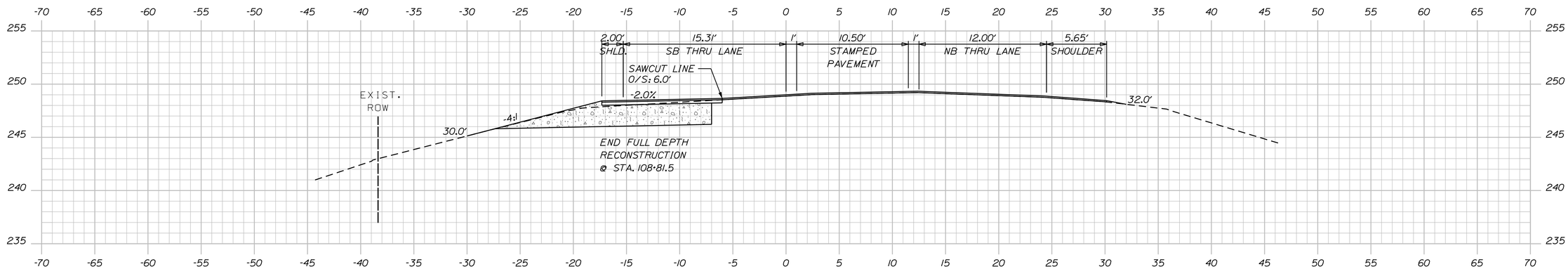
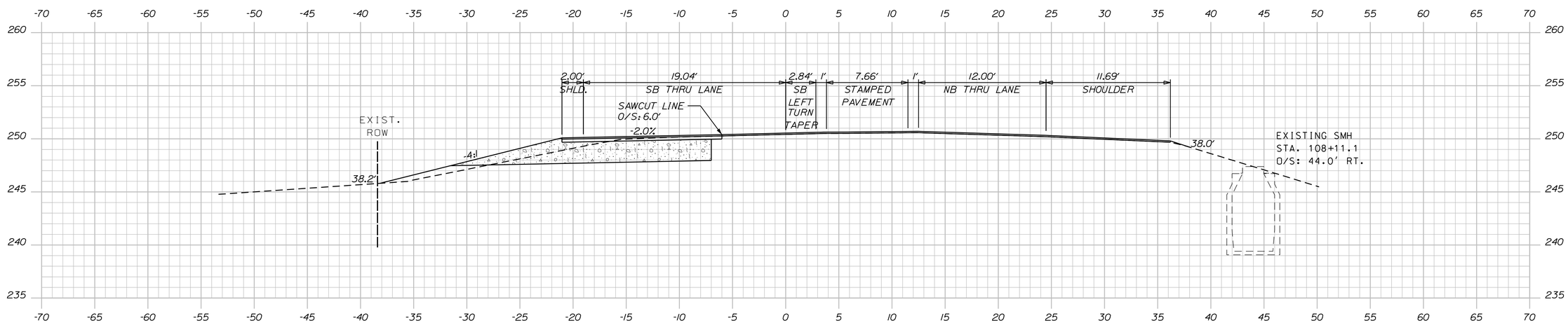


109+00.00



108+50.00



108+00.00

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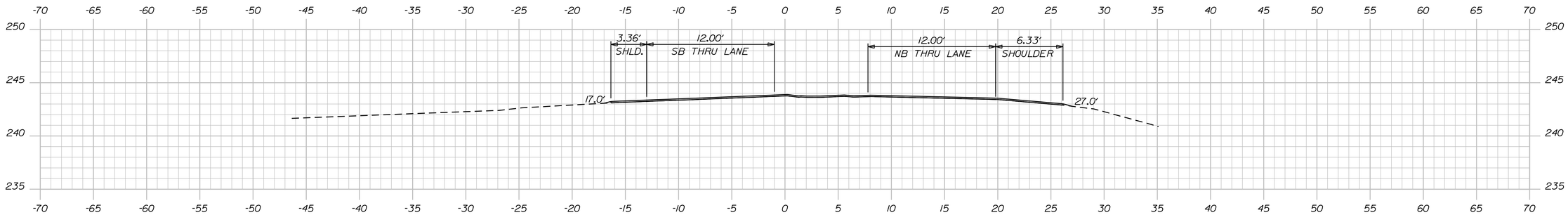
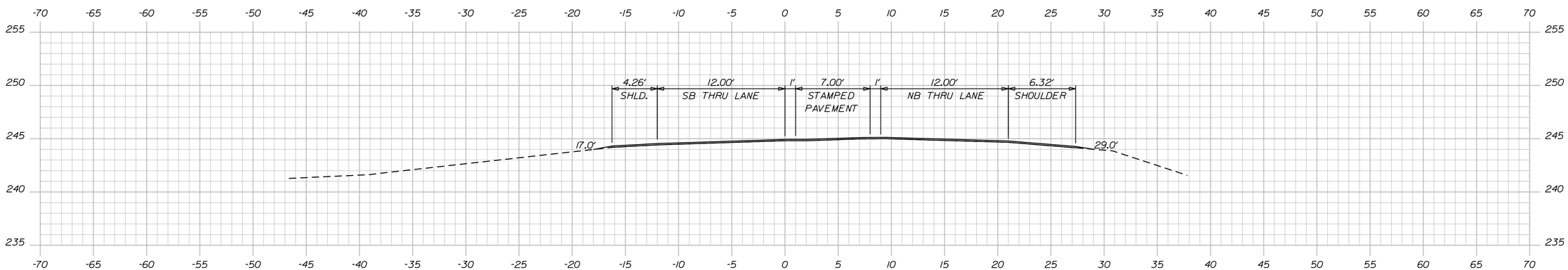
PROJECT NO.	SCALE
12233	1" = 5'

END 1.5" PAVEMENT BUTT JOINT @ STA. 110+52.3

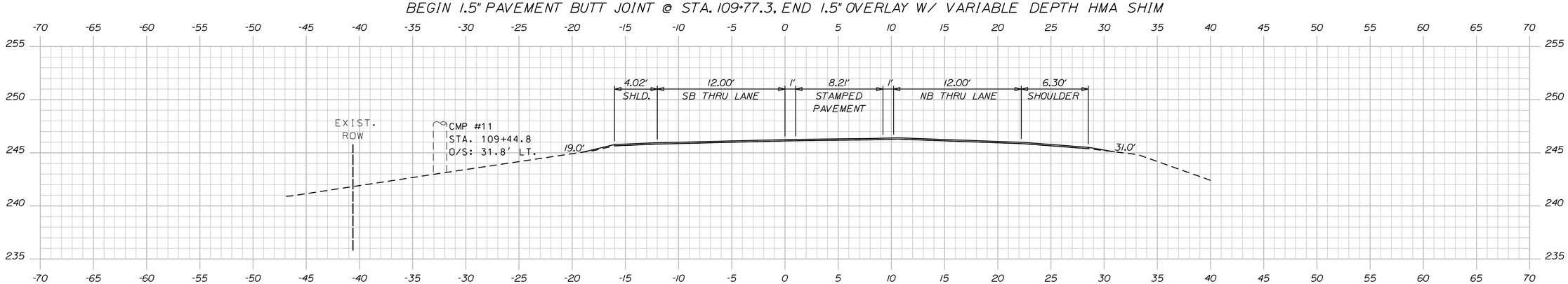


110+50.00



110+00.00

BEGIN 1.5" PAVEMENT BUTT JOINT @ STA. 109+77.3, END 1.5" OVERLAY W/ VARIABLE DEPTH HMA SHIM



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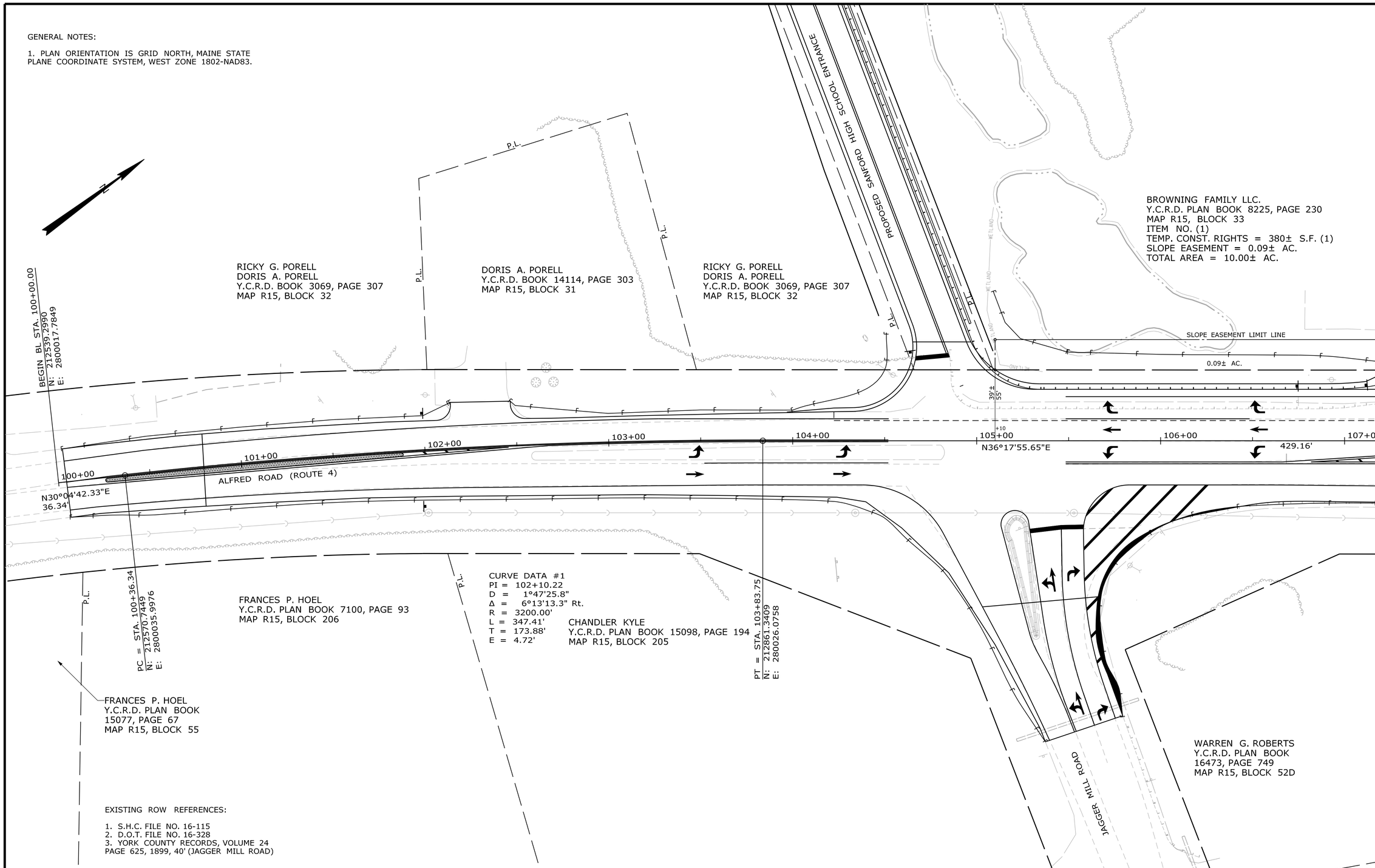
PROJECT NO.	SCALE
12233	1" = 5'

GENERAL NOTES:

1. PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83.



EXISTING ROW REFERENCES:

1. S.H.C. FILE NO. 16-115
2. D.O.T. FILE NO. 16-328
3. YORK COUNTY RECORDS, VOLUME 24 PAGE 625, 1899, 40' (JAGGER MILL ROAD)

NOTE:
THIS PLAN WAS PREPARED IN CONNECTION WITH THE ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CAN NOT BE USED OR RELIED UPON TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

SYMBOLS

- WELL (WELL)
- BREAKING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF ARROUGH FITTON
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- I.P. (IRON PIPE or PIN)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP	BRL	SSS
EXIST. R/W	CDM	BRL
PROP. LINES	BRL	SSS
AREAS	BRL	SSS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK		PAGE	COUNTY RECORD			
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____,
at ____h____m____ M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

DATE

ROUTE 4
ALFRED RD.
SANFORD YORK COUNTY
WIN 15116.75

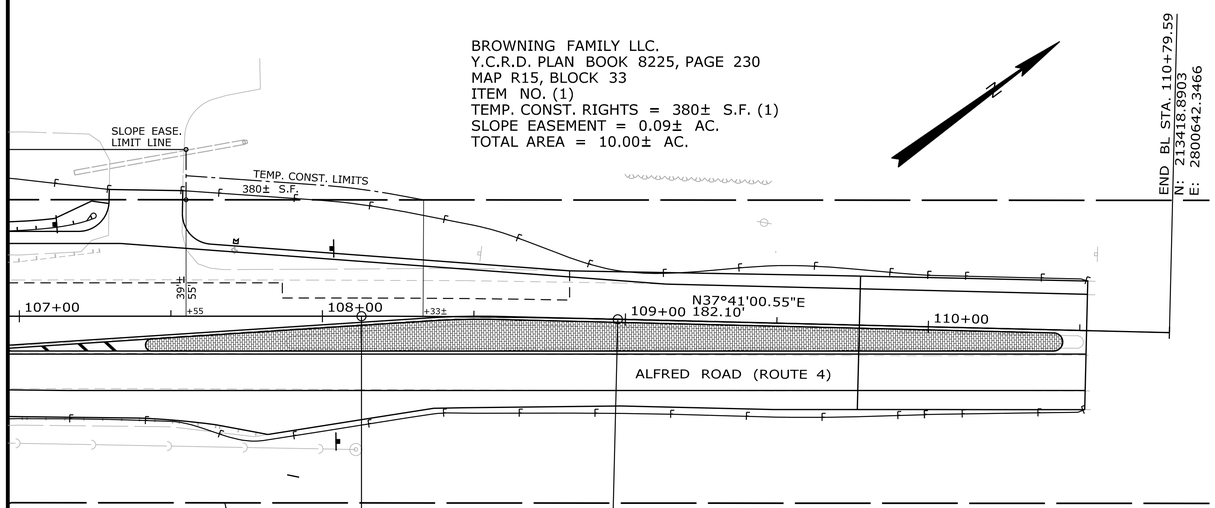
11/10/15 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 16-509
SCALE 1" = 25' | SHEET 1 OF 2

SHEET NUMBER
OS-11
OF 12

Filename: ...\00\ROW\MSTA\001_RWPLAN.DGN Division: HIGHWAY Username: blyon Date:12/4/2015

GENERAL NOTES:

1. PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83.



PC = STA. 108+12.91
N: 213207.2179
E: 2800480.1365

CURVE DATA #2
PI = 108+55.20
D = 1°38'13.3"
Δ = 1°23'04.9" Rt.
R = 3500.00'
L = 84.59'
T = 42.30'
E = 0.26'

PT = STA. 108+97.50
N: 213274.7775
E: 2800531.0299

LIBBY-SCOTT INC.
Y.C.R.D. PLAN BOOK 15098, PAGE 194
MAP R15, BLOCK 52C

WARREN G. ROBERTS
Y.C.R.D. PLAN BOOK
16473, PAGE 749
MAP R15, BLOCK 52D

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SYMBOLS

- IP (IRON PIPE or PIN)
- S.T. (SEPTIC TANK)
- (ROW MONUMENT)
- BM (TRAVERSE POINT)
- WELL (WELL)
- EXISTING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE
- LIMITS OF PROJECT IMPROVEMENTS
- EXISTING Right OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS
- WATER LINE
- GAS LINE
- ELECTRIC LINE
- TELEPHONE LINE
- SEWER LINE

ITEM	TECH	CHECKED
BASE MAP	BRL	SSS
EXIST. R/W	CDM	BRL
PROP. LINES	BRL	SSS
AREAS	BRL	SSS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

RIGHT OF WAY MAP

WIN 15116.75

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK		PAGE	COUNTY RECORD			
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h _____m _____ M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

DATE

ROUTE 4
ALFRED RD.
SANFORD YORK COUNTY
WIN 15116.75

11/10/15 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 16-509
SCALE 1" = 25' | SHEET 2 OF 2

SHEET NUMBER
OS-12
OF 12

Filename: ...\00\ROW\MSTA\001_RWPLAN.DGN Division: HIGHWAY Username: blyon Date:12/4/2015

GENERAL NOTES

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
6. PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS. LOCATION AND SIZE OF MEMBERS AND ANY INSERTS REQUIRED SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER.
7. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT ONE COPY AND ONE SEPIA.
8. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
9. IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE/INTERNATIONAL BUILDING CODE (2009 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
10. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

1. BUILDING CODE:
   MAINE UNIFORM BUILDING AND ENERGY CODE
   INTERNATIONAL BUILDING CODE, 2009 EDITION
   ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. DESIGN FLOOR LIVE LOADS:
   OFFICES: 50 PSF + 15 PSF PARTITION ALLOWANCE
   LAB SPACES: 60PSF
   CORRIDORS ABOVE THE FIRST FLOOR: 80 PSF
   STAIRS & LANDINGS: 100 PSF
   CLASSROOMS: 40 PSF
   LOBBIES: 100 PSF
   STAGES & PLATFORMS: 125 PSF
   LIBRARY 150 PSF (STACKS)
   60 PSF (READING ROOMS)
   MECH ROOMS: 80 PSF (UNIT WEIGHTS)
   COMMON AREAS: 100 PSF
   STORAGE AREAS: 125 PSF
3. DESIGN ROOF SNOW LOAD:
   GROUND SNOW LOAD (Pg): 60 PSF
   SNOW EXPOSURE FACTOR (Ce): 1.0
   SNOW LOAD IMPORTANCE FACTOR (Is): 1.1
   SNOW LOAD THERMAL FACTOR (Ct): 1.1
   FLAT ROOF SNOW LOAD (Pf): 51 PSF + DRIFT
4. DESIGN WIND LOAD:
   BASIC WIND SPEED: 100 MPH
   WIND LOAD IMPORTANCE FACTOR (Iw): 1.15
   WIND EXPOSURE: B
   INTERNAL PRESSURE COEFFICIENT: ±0.18
   COMPONENTS & CLADDING PER ASCE 7-05
5. DESIGN SEISMIC LOADS:
   EQUIVALENT LATERAL FORCE PROCEDURE
   SEISMIC OCCUPANCY CATEGORY: III
   SEISMIC IMPORTANCE FACTOR (Ie): 1.25
   MAPPED SPECTRAL RESPONSE ACCELERATIONS:
   Ss: 0.358
   S1: 0.081
   SEISMIC SITE CLASS: D
   SPECTRAL RESPONSE COEFFICIENTS:
   Sds: 0.361
   Sd1: 0.130
   SEISMIC DESIGN CATEGORY: C
   BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM, BEARING WALL SYSTEM

   BASIC SEISMIC FORCE RESISTING SYSTEM:
   STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
   STEEL BRACED FRAMES ORDINARY, REINFORCED MASONRY SHEAR WALLS.
   RESPONSE MODIFICATION FACTOR (R):
   AREA A1&A2: 2
   AREA A3,B,F1&F2: 2
   AREA D: 3
   AREA E: 3
   AREA C1&C2: 2
   SEISMIC RESPONSE COEFFICIENT (Cs):
   AREA A1&A2: 0.23
   AREA A3,B,F1&F2: 0.23
   AREA D: 0.15
   AREA E: 0.15
   AREA C1&C2: 0.23

FOUNDATION NOTES (SOIL SUPPORTED)

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A REPORT ENTITLED "PROPOSED SANFORD HIGH SCHOOL & REGIONAL TECHNICAL CENTER, MAIN STREET & OLD MILL ROAD, SANFORD, MAINE", PREPARED BY S.W. COLE ENGINEERING, INC., DATED OCTOBER 14, 2015. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS.
2. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOILAND/OR IMPROVED SUBGRADES USING REINFORCED AGGREGATE PIERS PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
3. ALLOWABLE BEARING CAPACITY 3,000 PSF
4. SOIL IMPROVEMENT BY MEANS OF RAMMED AGGREGATE PIERS IS REQUIRED FOR PORTIONS OF THIS PROJECT. REFERENCE GEOTECHNICAL REPORT, DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
6. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL UPGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
7. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
8. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION, SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
9. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
2. CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS: FOOTINGS/FNDN WALLS 3,500 PSI/NWC, INTERIOR SLABS-ON-GRADE 3,000 PSI/NWC, ELEVATED SLABS 4,000 PSI/LWC, EXTERIOR SLAB-ON-GRADE & SITE CONCRETE 5,000 PSI/NWC. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
7. FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
8. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

   A.SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0"
   B.FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   #5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
   #6 THROUGH #11 BARS, 2.0"
   C.SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0"
   BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1.5"
9. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES PER THE SCHEDULE DRAWING S2.1, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
10. WELDING OF REINFORCEMENT IS NOT PERMITTED
11. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
12. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
13. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
   A.FOOTINGS AND WALLS
   MAX LENGTH 40'-0" OR 15'-0" FROM ANY CORNER**
   B.SLABS CON GRADE
   SEE FOUNDATION PLAN

** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED. MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

14. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
15. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
16. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
17. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
18. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND SHELF BULK HEADS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS: ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997)
3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
4. CONNECTION DESIGN FOR THIS PROJECT IS THE RESPONSIBILITY OF THE FABRICATOR. CONNECTION CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR THIS PROJECT. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC) CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED.
6. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
7. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
8. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
9. PROVIDE 1/4" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED. LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS.
10. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC., SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.
11. PROVIDE L 4 x 4 x 1/4 SLAB SUPPORT ANGLE AS REQUIRED AT COLUMNS WHERE STRUCTURAL MEMBERS DO NOT FRAME IN AT ALL FOUR SIDES.

OPEN WEB STEEL JOISTS NOTES

1. DESIGN, DETAIL, FABRICATE AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE LATEST EDITION OF STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI)
2. HANGERS FOR DUCTS, PIPES, UNITS, ETC., MUST BE ATTACHED TO JOISTS AT PANEL POINTS ONLY. EXCEPT WHERE DESIGNATED ON "SP" JOISTS, IN NO CASE SHALL ANY SINGLE POINT LOAD EXCEED 300 LBS.
3. PROVIDE BRIDGING AND BRIDGING ANCHORAGE IN ACCORDANCE WITH SJI SPECIFICATIONS. PROVIDE ADDITIONAL BRIDGING FOR UPLIFT FOR ROOF JOINTS WHERE REQUIRED BY SJI SPECIFICATIONS.

METAL DECK

1. THE METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS:
   A. FLOOR DECKING: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 40 OR HIGHER
   B. ROOF DECKING: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 33 OR HIGHER
2. FLOOR AND ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
3. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES REFER TO SPECIFICATIONS.

MASONRY NOTES

1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-LATEST.
2. ALL CONCRETE MASONRY UNITS SHALL MEET THE REQUIREMENTS OF ASTM C90 GRADE N, TYPE I STANDARD WEIGHT BLOCKS INCLUDING STRETCHERS AND CORNER BLOCKS. MINIMUM PRISM STRENGTH OF BLOCK SHALL BE F'M = 1500 PSI IN 28 DAYS.
3. INSULATED BLOCK: BASIS OF DESIGN OMNI BLOCK, LAS VEGAS, NV (877)711-6664
4. MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S
5. GROUT SHALL CONFORM TO ASTM-C476
6. REINFORCING FOR BOND BEAMS, LINTEL BLOCKS AND VERTICAL WALL REINFORCING SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60
7. HORIZONTAL JOINT REINFORCING SHALL BE DUR-O-WAL TRUSS DESIGN, STANDARD CLASS MILL GALVANIZED WITH 3/16" DIAMETER SIDE RODS AND 9 GAUGE CROSS TIES, U.N.O. REINFORCING SHALL BE PLACED IN MASONRY WALLS AT EVERY SECOND BLOCK COURSE.
8. CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED. PROVIDE FULL MORTAR COVERAGE ON ALL WEBS AND FACE SHELLS. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL 90 DEGREE CORNERS AND WALL OPENINGS.
9. PROVIDE LINTELS AT WALL PENETRATIONS AS SHOWN IN THE LINTEL SCHEDULE.
10. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS FOR BARS #5 AND SMALLER. PROVIDE MECHANICAL SPLICES RATED FOR 125% THE BAR YIELD STRENGTH FOR BARS #6 AND LARGER. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT.
11. CELLS TO BE GROUTED SHALL BE 2-CELL BLOCK. ALIGN CELLS TO MAINTAIN A CLEAR UNOBSTRUCTED, CONTINUOUS VERTICAL CHASE. CELLS MUST BE KEPT CLEAN OF PROTRUSIONS OR FINS OF MORTAR. FILL CELLS OF MASONRY UNITS AND WALL CAVITIES WHERE INDICATED WITH 2500 PSI GROUT. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0". HIGH LIFT GROUTING SHALL CONFORM TO CODE REQUIREMENTS WITH A MINIMUM CEMENT CONTENT OF 8 SACKS PER CUBIC YARD. SUPPORT ALL VERTICAL BARS IN CENTER OF GROUTED CELLS WITH VERTICAL BAR POSITIONER.
12. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.

LINTELS

1. THE FOLLOWING LINTELS SHALL BE USED FOR MASONRY OPENINGS, U.N.O. ON DRAWINGS:

MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L 3 1/2 x3 1/2 x 5/16
3'-1" TO 4'-6"	L 4 x 3 1/2 x 5/16 (LLV)
4'-7" TO 6'-0"	L 5 x 3 1/2 x 5/16 (LLV)
6'-1" TO 8'-0"	L 6 x 3 1/2 x 5/16 (LLV)
8'-1" TO 9'-4"	L 7 x 4 x 3/8 (LLV)

2. PROVIDE ONE ANGLE FOR EACH 4" WALL THICKNESS. FOR 6" WALL THICKNESS, PROVIDE WT OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 ½ TIMES THE ANGLES PROPERTIES FOR A 4" WALL THICKNESS.
3. PROVIDE 8" OF BEARING AT EACH END OF ALL LINTELS.
4. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
AESS STEEL	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
A.F.F.	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
A.R.	ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
BAL	BALANCE
B.C.X.	BOTTOM CHORD EXTENSION
BD	BOARD
B.F.	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BIT	BITUMINOUS
B.O.	BOTTOM OF/ BY OTHERS
BOT	BOTTOM
B.P.	BEAM POCKET
B.PL	BASE PLATE
BRG	BEARING
B.S.	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
C/C	CENTER TO CENTER
C	CHANNEL
CFMF	COLD FORM METAL FRAMING
C.I.P.	CAST IN PLACE
C.J.	CONTRACTION/CONST. JOINT
℄	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTR(D)	CENTER(ED)
d	PENNY
DBL	DOUBLE
DIA OR ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO/do	DITTO/DO OVER
DP	DRILLED PIER OR DEEP
DTL(S)	DETAIL(S)
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
(E) OR EXIST	EXISTING
EA.	EACH
E.E.	EACH END
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
EMBED	EMBEDMENT
ENGR	ENGINEER
E.O.P.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
EQ	EQUAL
EQ SP	EQUALLY SPACED
EQUIP	EQUIPMENT
E.S.	EACH SIDE
E.W.	EACH WAY
E.W.B.	EACH WAY BOTTOM
EXIST/EX	EXISTING
EXP ANCHOR	EXPANSION ANCHOR
EXP	EXPANSION
EXT	EXTERIOR
FB	FLAT BAR
F.D.	FLOOR DRAIN
FDN	FOUNDATION
FIN. FL.	FINISH FLOOR
F.F.	FINISH FLOOR/ FAR FACE
FLG	FLANGE
FLR	FLOOR
F.F.E.	FINISH FLOOR ELEVATION
F.O.B.	FACE OF BRICK
F.O.	FACE OF
FRMG	FRAMING
F.S.	FAR SIDE
F.T.	FOOT OR FEET
FTG	FOOTING
GA	GAGE/GAUGE
GALV	GALVANIZED
GL	GLU-LAM
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GR	GRADE OR GRIND
GWB	GYPSUM WALL BOARD
H.D.	HOLDOWN
H.D. GALV	HOT DIPPED GALVANIZED
HK	HOOK
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING VENTILATION & COOLING
HSS	HOLLOW STRUCTURAL SHAPE
I.D.	INSIDE DIAMETER
INFO	INFORMATION
I.F.	INSIDE FACE
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS (1K=1000LBS)
L	ANGLE
LG	LENGTH
LB(S)	POUND(S)
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZ
LLV	LONG LEG VERT
LOC(S)	LOCATION(S) OR LOCATE
LONG	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LT	LIGHT
LTS	TENSION LAP SPLICE LENGTH
LTWT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATE VENEER LUMBER
MACH	MACHINE
MACH RM	MACHINE ROOM
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING
MANUF	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MICRO-LAM
M.O.	MASONRY OPENING
MTL	METAL
N	NORTH
N.I.C	NOT IN CONTRACT
NO OR #	NUMBER
NOM	NOMINAL
N-S	NORTH-SOUTH
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
P.A.F.	POWDER ACTUATED FASTENER
P.C.	PILE CAP
PCA	PORTLAND CONCRETE ASSOCIATION
PEN	PENETRATION
PERP	PERPENDICULAR
PL	PLATE
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PREFAB	PREFABRICATION
PRELIM	PRELIMINARY
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RE OR REF	REFER TO REFERENCE
R.D.	ROOF DRAIN
REINF	REINFORCE(ING)(D)(MENT)
REQD	REQUIRED
REQMNTS	REQUIREMENT(S)
R.O.	ROUGH OPENING
RTU	ROOF TOP UNIT
S.C.	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
S.F.	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
S	SOUTH
SP @	SPACE AT
SP	SPACE(S)
SPECS	SPECIFICATIONS
S.K.	SHEAR KEY
S.L.	SHEAR LUG
S.S.	STAINLESS STEEL
SSLT	SHORT SLOT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
STIFF	STIFFENER
S.W.	SHEARWALL
SYM	SYMMETRICAL
T	TOP
T&B	TOP AND BOTTOM
T.C.F.	TOP CHORD EXTENSION
THK	THICK
TL	TOTAL LOAD
T.J.	TIE JOIST
T.O. OR T/	TOP OF
T.O.S. T/STL	TOP OF STEEL etc.
TRANS	TRANSVERSE
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WIDTH OR WOOD
WF	WIDE FLANGE
W.P.	WORK POINT
WT	WEIGHT
W.W.F.	WELDED WIRE FABRIC

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NO.10266
LICENSED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
GENERAL NOTES

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: 1/8" = 1'-0"

S00

Project Phase
BID DOCUMENTS

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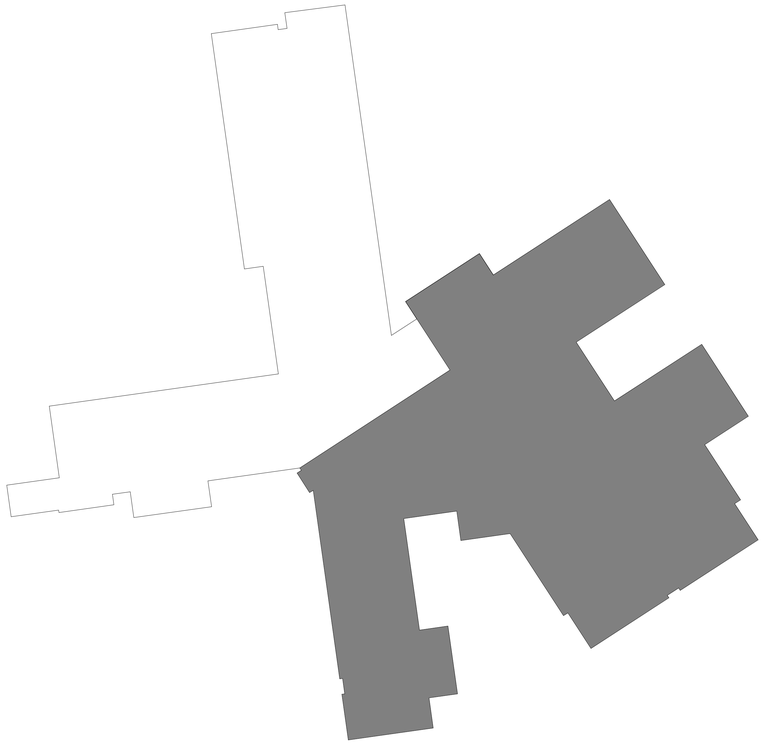

RAMMED AGGREGATE PIER (RAP) EXTENTS PLAN

N.T.S.

NOTES:

1. THE SOIL AT FOOTINGS IN THE SHADED AREA INDICATED IN THE PLAN ABOVE SHALL BE IMPROVED BY THE USE OF A RAMMED AGGREGATE PIER (RAP) SYSTEM.
2. DESIGN OF RAMMED AGGREGATE PIER SYSTEM SHALL BE PREPARED BY A SPECIALITY ENGINEER LICENSED IN THE STATE OF MAINE. SIGNED AND SEALED DESIGN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
3. DESIGN NET ALLOWABLE BEARING PRESSURE FOR FOOTINGS BEARING ON SOIL IMPROVED WITH RAMMED AGGREGATE PIERS SHALL BE 3,000 POUNDS PER SQUARE FOOT.
4. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. SEE AREA RAP LOADS AT COLUMNS & WALLS BELOW. INDICATED LOADS ARE UNFACTORED.

AREA A1 RAP LOADS AT COLUMNS

AREA	GRID	TOTAL GRAVITY LOAD (k)	DEAD LOAD (k)	ENVELOPED LOAD W/ LATERAL (k)
A1	E-8/E-A	40	25	80
A1	E-85/E-A	75	40	85
A1	E-9/E-A	80	45	-
A1	A-1/A-D9	115	55	-
A1	A-1/A-F1	125	60	-
A1	A-15/A-D9	95	45	-
A1	A-15/A-F1	80	40	-
A1	E-8/E-B	60	35	85
A1	E-85/E-B	115	70	-
A1	E-8/E-C	60	35	-
A1	E-9/E-B	155	95	-
A1	E-85/E-C	115	70	140
A1	E-9/E-C	100	60	100
A1	A-2/A-D	120	70	-
A1	A-2/A-D9	210	125	-
A1	A-2/A-F1	160	80	-
A1	E-8/E-D	40	25	-
A1	E-85/E-D	100	60	95
A1	E-9/E-D	100	60	120
A1	A-3/A-C	135	75	-
A1	A-3/A-D	240	145	225
A1	A-3/A-E	140	90	-
A1	A-3/A-E4	70	35	-
A1	A-3/A-F	110	50	-
A1	E-85/E-D9	85	50	-
A1	A-4/A-B	140	90	-
A1	A-4/A-C	210	130	-
A1	A-4/A-D	220	135	240
A1	A-4/A-E	135	85	-
A1	A-4/A-E4	50	25	-
A1	A-4/A-F	95	40	-
A1	E-75/E-H	50	25	-
A1	E-85/E-G	40	25	-
A1	E-85/E-H	50	25	-
A1	E-77/A-5	40	20	-
A1	E-85/A-5	50	25	-
A1	A-5/A-B	105	65	-
A1	A-5/A-C	130	80	-
A1	A-5/A-D	125	75	-
A1	A-5/A-E	100	55	-
A1	A-5/A-E4	80	40	-
A1	A-5/A-F	60	25	-

AREA A3 RAP LOADS AT COLUMNS

AREA	GRID	TOTAL GRAVITY LOAD (k)	DEAD LOAD (k)	ENVELOPED LOAD W/ LATERAL (k)
A3	E-85/A-51	65	40	-
A3	A-B/A-51	95	65	-
A3	A-C/A-51	120	80	-
A3	A-D/A-51	100	70	-
A3	A-D8/A-51	55	35	-
A3	F-E/A-65	140	65	-
A3	A-D8/A-65	155	70	-
A3	F-E/A-7	140	65	-
A3	A-D8/A-7	150	65	-
A3	F-E/A-9	140	65	-
A3	A-D8/A-9	150	65	-
A3	F-E/A-9	65	15	-
A3	A-A9/A-9	145	45	-
A3	A-D5/A-9	145	45	-
A3	A-D8/A-9	45	20	-
A3	Z-H/Z-1	50	30	-
A3	Z-G/Z-1	75	55	-
A3	Z-F/Z-1	75	55	-
A3	Z-E/Z-1	75	55	-
A3	Z-D/Z-1	75	55	-
A3	Z-E/Z-1	75	55	-
A3	Z-D/Z-1	75	55	-
A3	Z-C/Z-1	75	55	-
A3	Z-B/Z-1	50	30	-
A3	Z-J/Z-6	30	15	-
A3	Z-J/Z-7	30	15	-
A3	Z-J/Z-8	30	15	-
A3	Z-A/Z-23	30	15	-
A3	Z-A/Z-28	30	15	-
A3	Z-A/Z-29	30	15	-
A3	Z-H/Z-3	50	30	-
A3	Z-G/Z-3	75	55	-
A3	Z-F/Z-3	75	55	-
A3	Z-E/Z-3	75	55	-
A3	Z-D/Z-3	75	55	-
A3	Z-C/Z-3	75	55	-
A3	Z-B/Z-3	50	30	-

AREA B RAP LOADS AT COLUMNS

AREA	GRID	TOTAL GRAVITY LOAD (k)	DEAD LOAD (k)	ENVELOPED LOAD W/ LATERAL (k)
B	A-F/B-1	90	40	-
B	A-F/B-2	110	50	-
B	A-G/B-2	120	75	135
B	A-H/B-2	205	95	-
B	A-G/B-3	120	75	105
B	A-E/A-8	50	35	-
B	A-F/B-4	150	80	-
B	A-G/B-4	185	115	-
B	A-H/B-4	280	135	-
B	A-E/B-6	90	65	-
B	A-F/B-6	190	120	-
B	A-G/B-6	210	115	190
B	A-H/B-6	220	115	225
B	B-A/B-7	20	10	-
B	A-E/B-7	80	45	95
B	A-F/B-7	105	70	90
B	A-G/B-7	130	75	-
B	B-A/B-81	30	15	-
B	A-E/B-8	140	70	-
B	A-F/B-8	125	75	-
B	A-G/B-8	190	110	-
B	A-H/B-8	150	90	-
B	B-A/B-9	40	15	-
B	A-F/B-9	150	95	-
B	A-G/B-9	180	100	-
B	A-H/B-9	115	65	160
B	A-E/B-99	135	70	-
B	A-H/B-10	65	35	150
B	B-A/B-11	55	20	-
B	A-E/B-11	170	100	-
B	A-F/B-11	190	125	-
B	A-H9/B-11	255	160	-
B	A-H/B-11	140	85	160
B	B-A/B-12	30	15	-
B	A-E/B-12	90	45	85
B	A-F/B-12	60	35	75
B	H-9/B-12	125	80	-
B	A-H/B-12	100	60	-

AREA E RAP LOADS AT COLUMNS

AREA	GRID	TOTAL GRAVITY LOAD (k)	DEAD LOAD (k)	ENVELOPED LOAD W/ LATERAL (k)
E	E-A/E-1	45	25	-
E	E-A/E-16	85	45	-
E	E-A/E-3	70	40	145
E	E-A/E-4	95	40	-
E	E-A/E-5	110	70	-
E	E-A/E-55	70	45	125
E	E-A/E-6	90	55	55
E	E-A/E-69	55	35	135
E	E-A/E-7	70	45	110
E	E-A/E-79	50	30	-
E	E-A7/E-55	70	35	-
E	E-A7/E-6	115	55	-
E	E-A9/E-1	55	35	-
E	E-B/E-16	95	55	-
E	E-B/E-3	100	55	160
E	E-B/E-4	195	115	-
E	E-B/E-5	225	145	-
E	E-B/E-55	60	35	-
E	E-B/E-7	130	70	125
E	E-B/E-79	75	45	-
E	E-B4/E-58	45	20	-
E	E-B4/E-65	50	25	-
E	E-C/E-1	55	35	125
E	E-C/E-16	100	55	175
E	E-C/E-3	105	60	-
E	E-C/E-4	205	120	-
E	E-C/E-5	255	160	245
E	E-C/E-58	135	80	-
E	E-C/E-65	105	60	-
E	E-C/E-7	120	75	155
E	E-C/E-79	80	50	50
E	E-C5/E-2	95	85	-
E	E-C5/E-41	85	75	-
E	E-D/E-1	65	40	-
E	E-D/E-2	150	80	-
E	E-D/E-41	180	80	-
E	E-D/E-5	200	125	230
E	E-D/E-6	145	85	-
E	E-D/E-7	105	65	-
E	E-D/E-79	50	30	-

RAP LOADS AT WALLS

WALL LABEL	TOTAL GRAVITY LOAD (k/ft)	DEAD LOAD (k/ft)
WL 1	2.4	2.4
WL 2	1.5	1.5
WL 3	3.6	3.6
WL 4	2.8	2.8
WL 5	6.6	5.1
WL6	5.2	5.2
WL7	5.8	5.4
WL8	7.4	5.9
WL9	9.3	5.9
WL10	2.7	1.2
WL11	3.3	1.7
WL12	6.9	6.1
WL13	4.3	4.1
WL14	11	6
WL15	4.5	1.7
WL16	5.5	3.3
WL17	6.8	3.6

RAMMED AGGREGATE PIER (RAP) SCHEDULE

LAVALLEE BRENSINGER ARCHITECTS
Boston | Manchester | Portland
155 Dow Street, Suite 400, Manchester, NH 03101
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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
RAM AGGREGATE PIER INFOMATION

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: As indicated

S01

Project Phase
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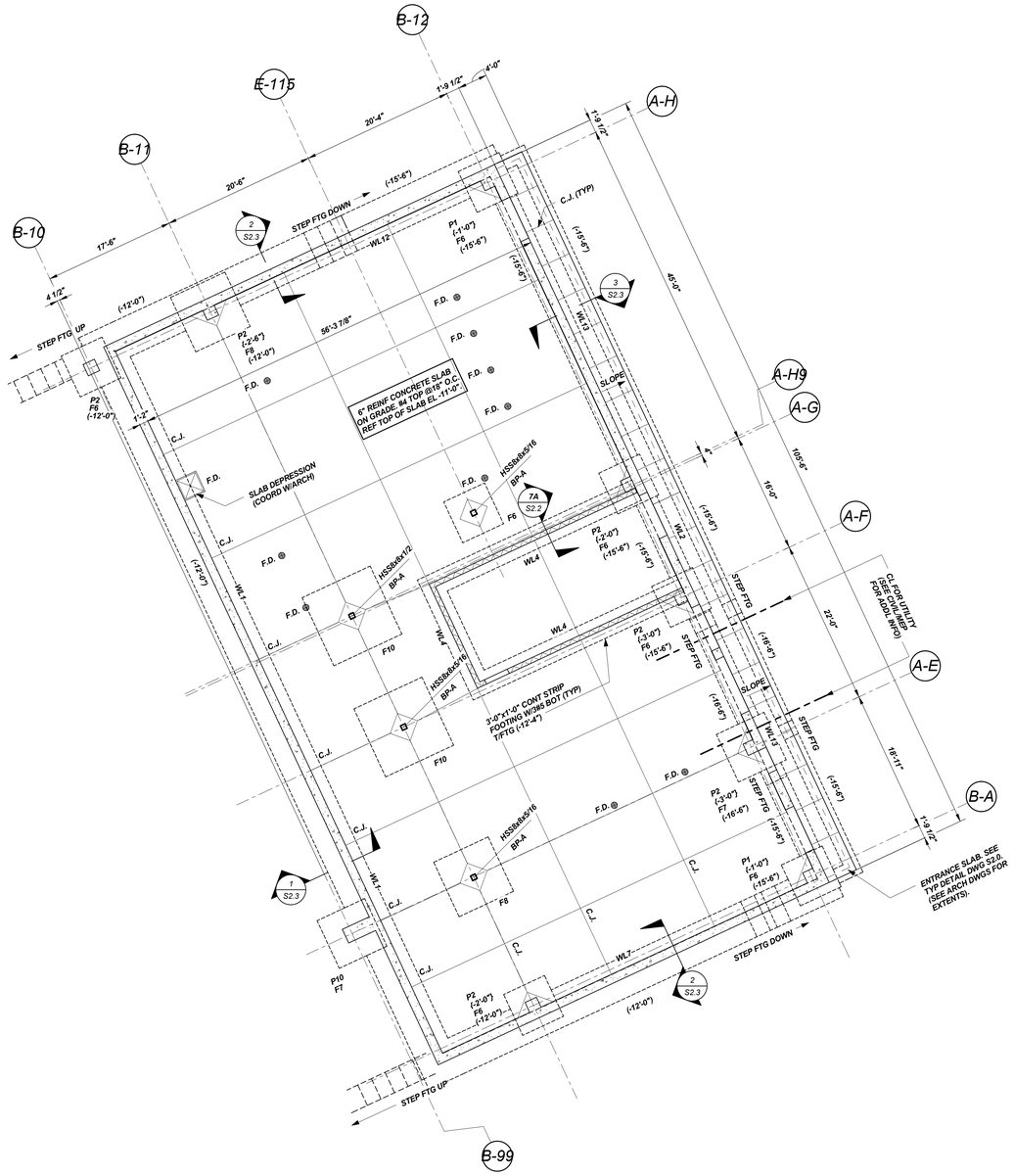

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

** INDIATES FOOTING W/ REINF TOP & BOTTOM.*

BASEMENT LEVEL FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. *FOR TOP OF WALL EL SEE DWG 1.4 AND SECTIONS AND DETAILS.*
2. *Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.*
3. *TOP OF INTERIOR FOOTING EL (-12'-0") U.N.O.*
4. *TOP OF EXTERIOR FOOTING EL (-12'-0") U.N.O.*
5. *Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE.*
6. *TOP OF PIER EL (-X'-X"). SEE PLAN.*
7. *F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.*
8. *BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.*
9. *C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.*
10. *WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.*
11. *PROVIDE THICKENED SLABS AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.*

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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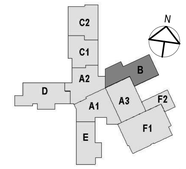

CONTENT:
BASEMENT FOUNDATION PLAN - AREA B

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.0

Project Phase
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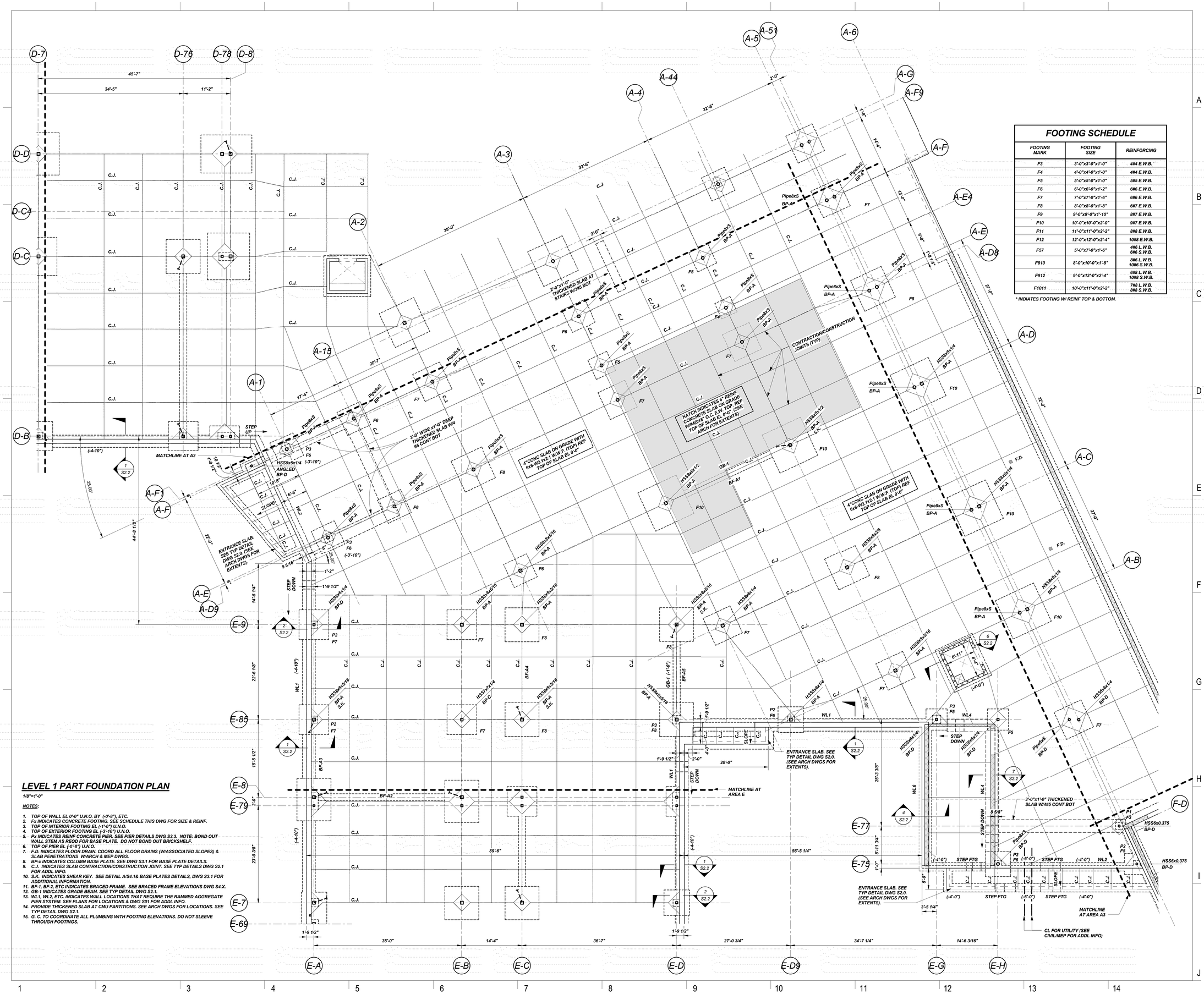

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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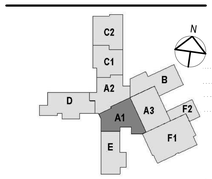

CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA A1

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PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

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FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

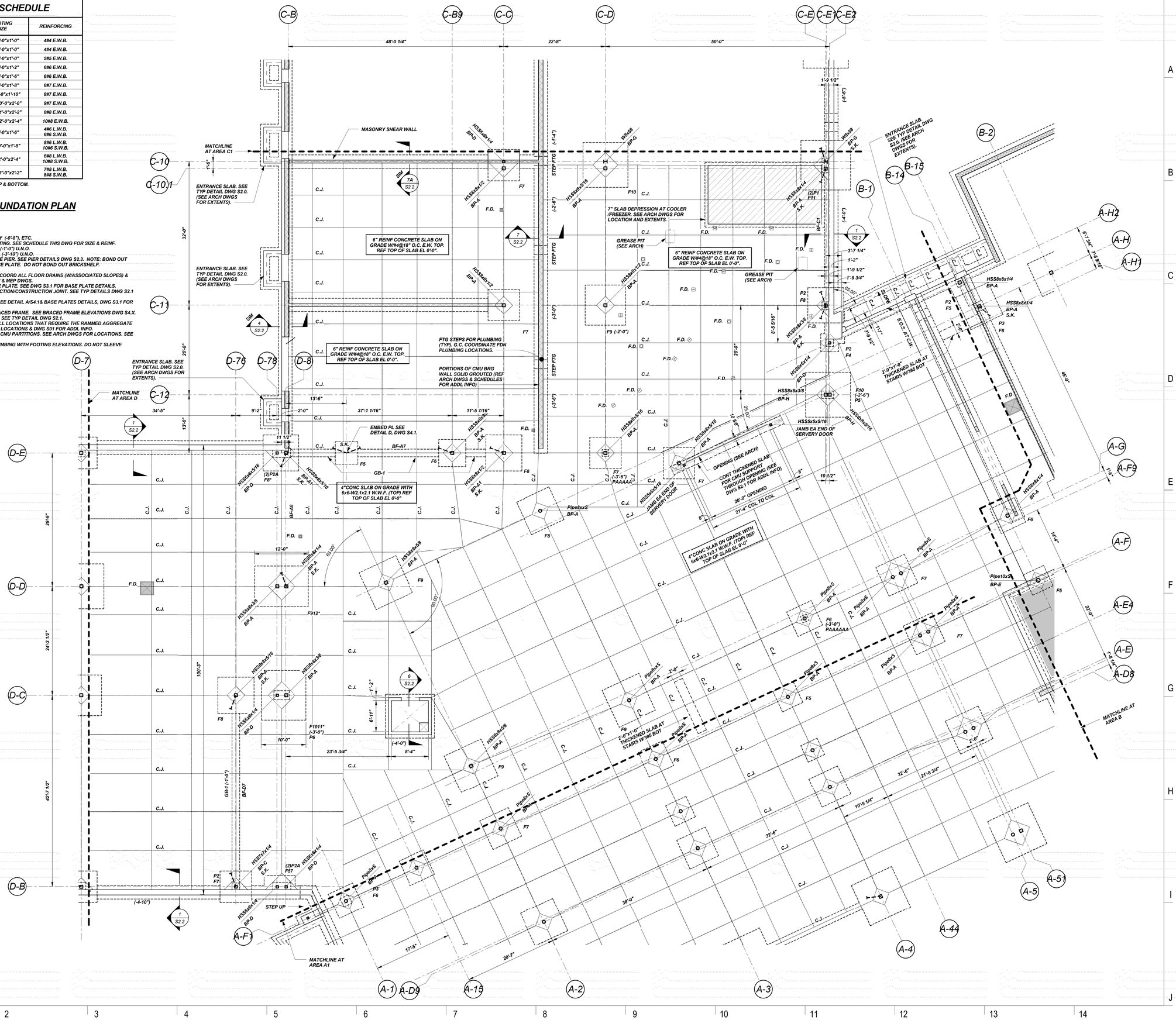
* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.



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CONTENT:
LEVEL 1 PART FOUNDATION PLAN - AREA A2

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.2

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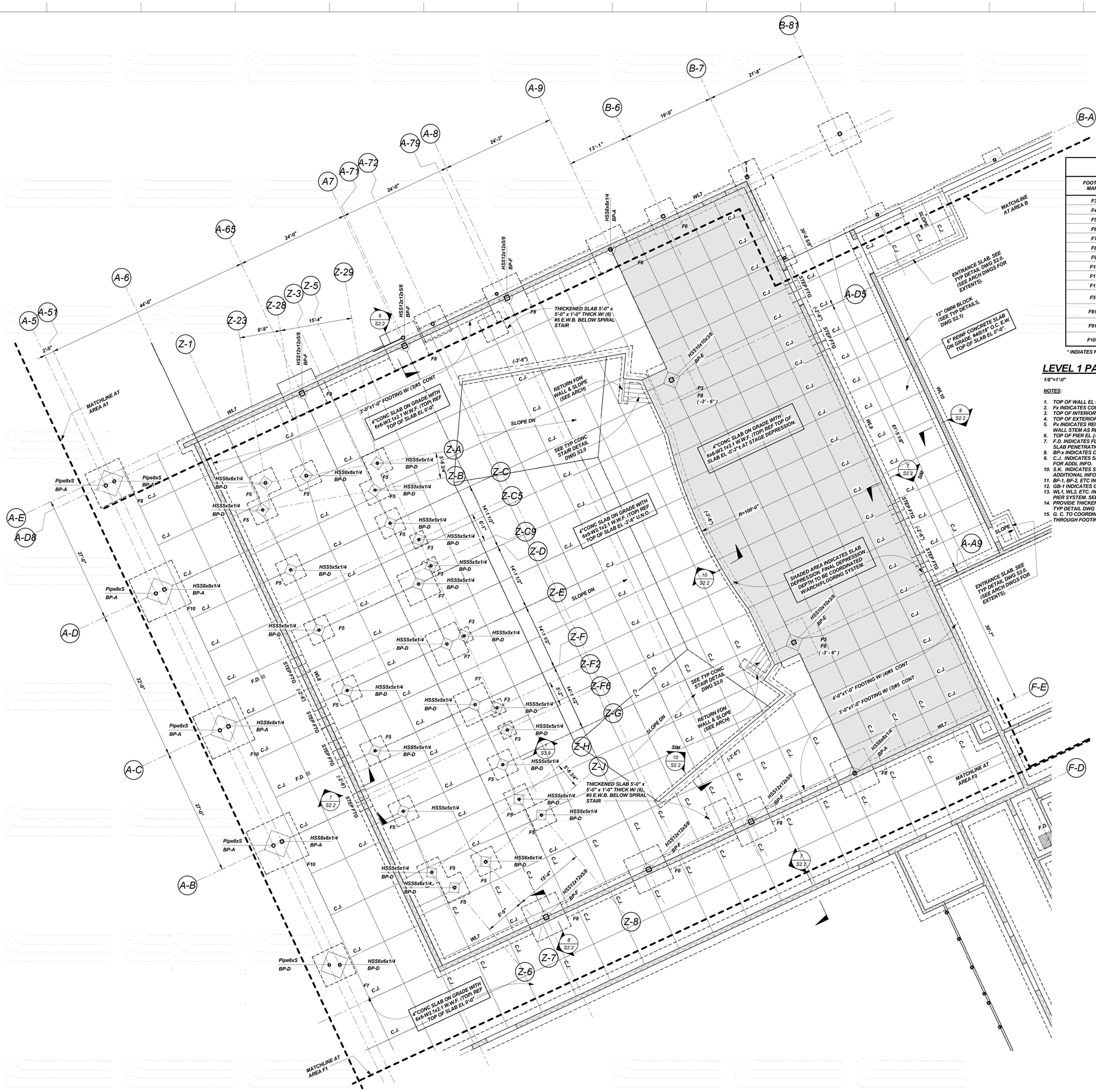

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

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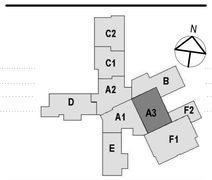
SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
LEVEL 1 PART FOUNDATION PLAN - AREA A3

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.3

Project Phase
BID DOCUMENTS

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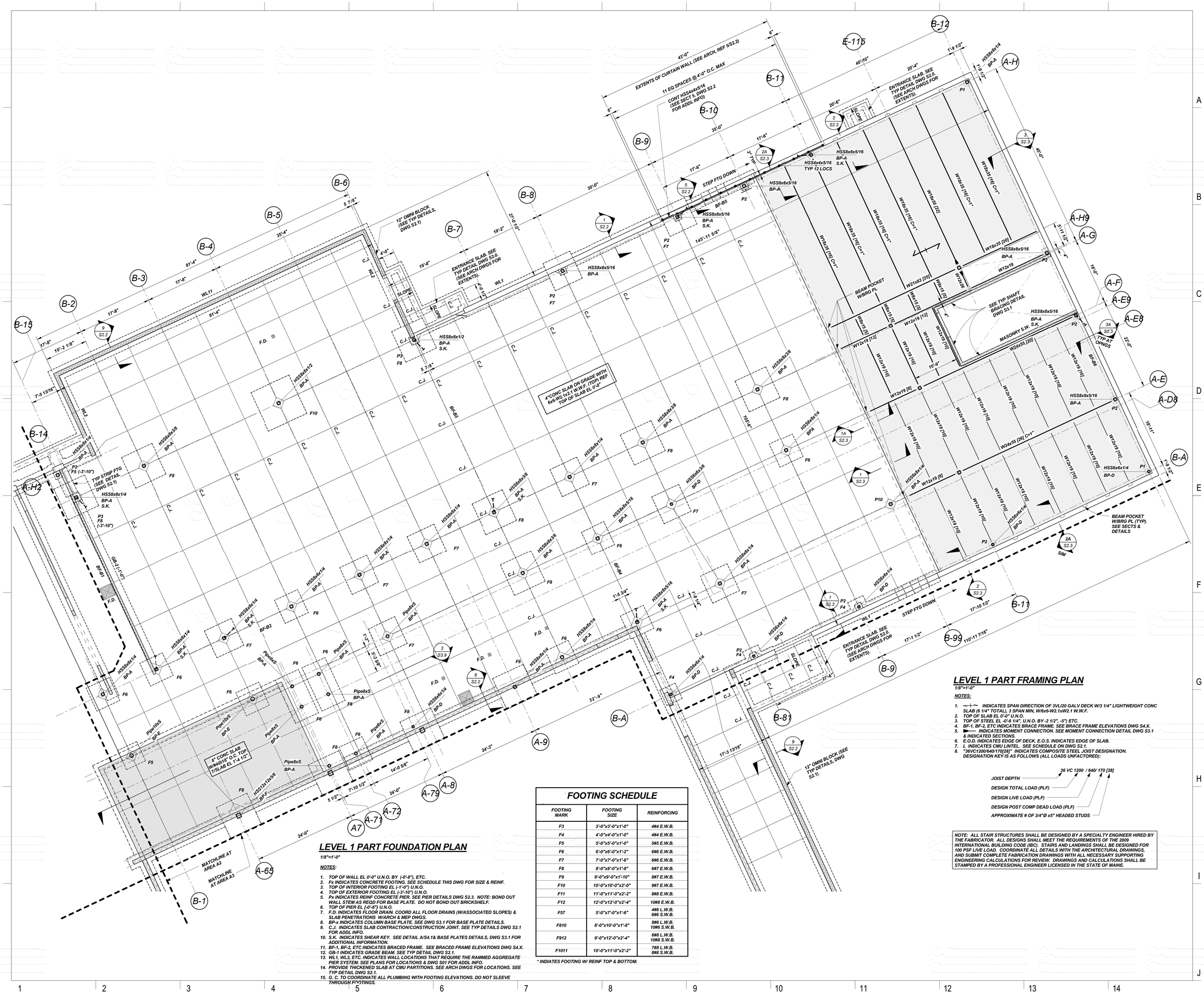

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
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5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
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8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
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12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
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14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONC SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 0'-0" U.N.O.
3. TOP OF STEEL EL -0'-6 1/4", U.N.O. BY -2 1/2", -5") ETC.
4. BF-1, BF-2, ETC INDICATES BRACE FRAME. SEE BRACE FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.1 & INDICATED SECTIONS.
6. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
7. L INDICATES CMU LINTEL. SEE SCHEDULE ON DWG S2.1.
8. "36VC1200/640/170[28]" INDICATES COMPOSITE STEEL JOIST DESIGNATION. DESIGNATION KEY IS AS FOLLOWS (ALL LOADS UNFACTORED):

36 VC 1200 / 640/ 170 [28]

- JOIST DEPTH
- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS

NOTE: ALL STAIR STRUCTURES SHALL BE DESIGNED BY A SPECIALTY ENGINEER HIRED BY THE FABRICATOR. ALL DESIGNS SHALL MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH THE ARCHITECTURAL DRAWINGS, AND SUBMIT COMPLETE FABRICATION DRAWINGS WITH ALL NECESSARY SUPPORTING ENGINEERING CALCULATIONS FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE.

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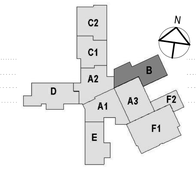
SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA B

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.4

Project Phase: BID DOCUMENTS

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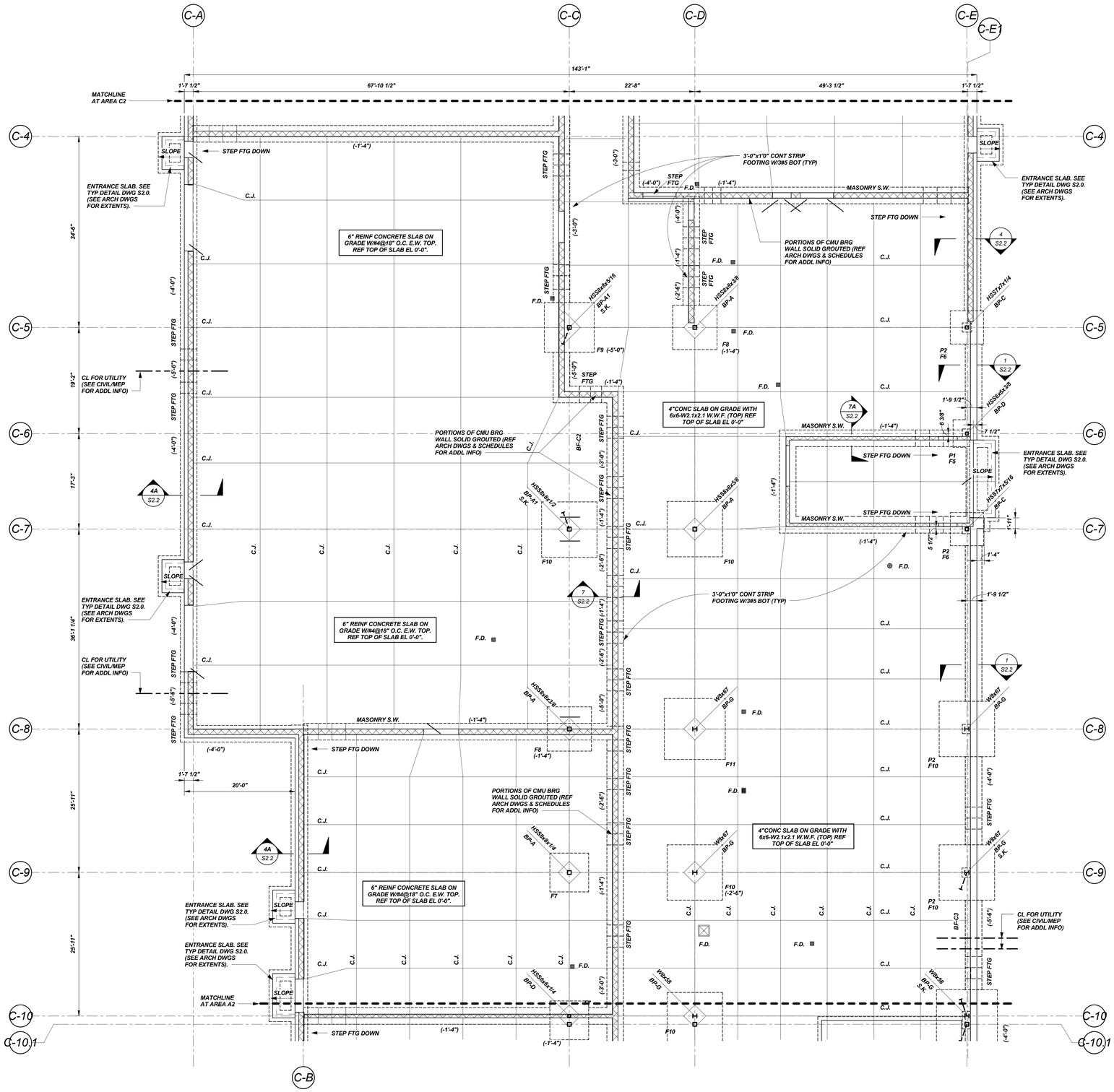

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
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F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
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10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
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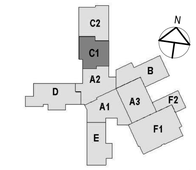
SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA C1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.5

Project Phase: BID DOCUMENTS

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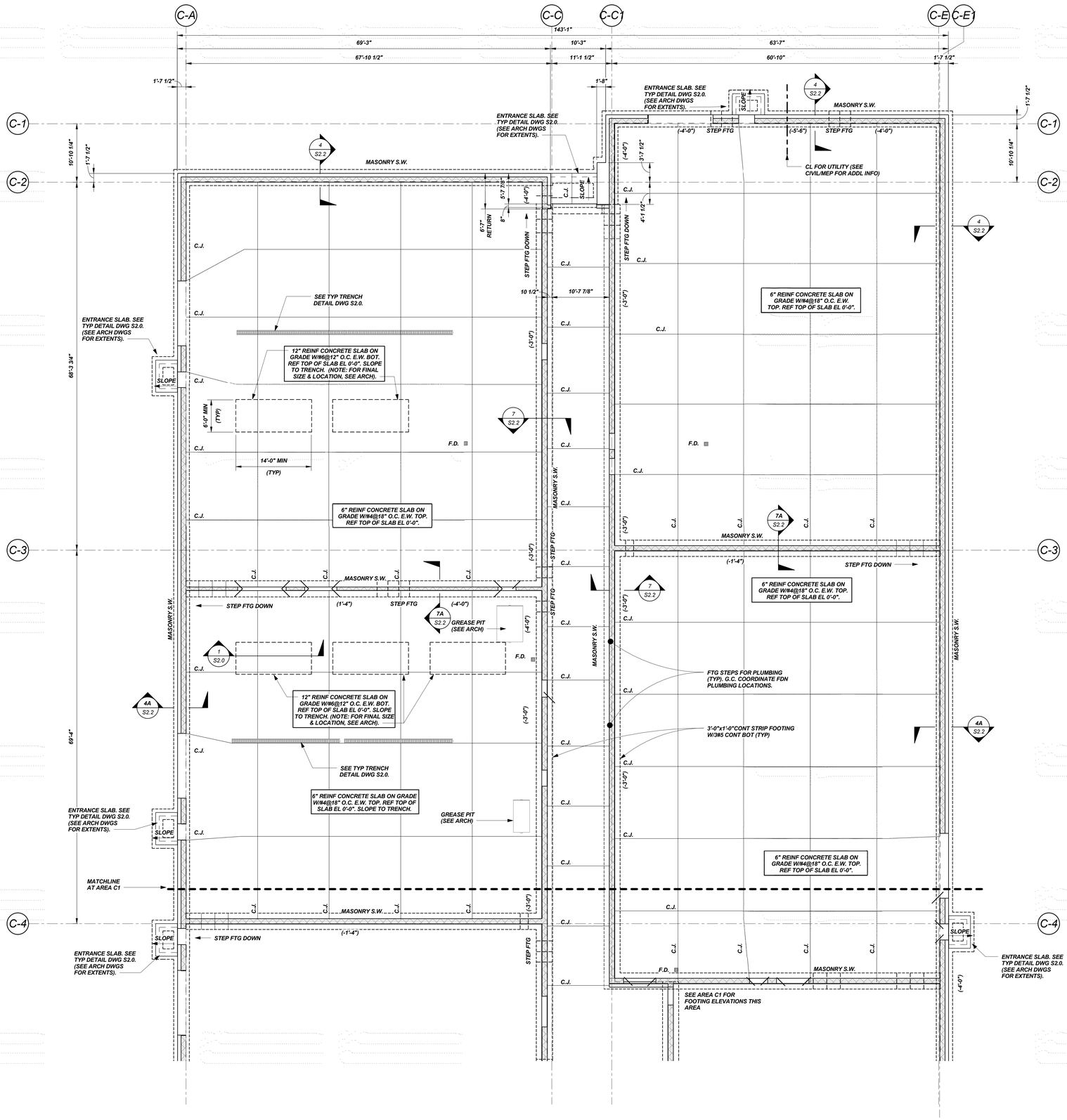

FOOTING SCHEDULE		
FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
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F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
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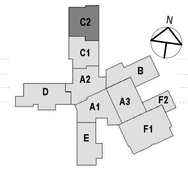

CONTENT:
LEVEL 1 PART FOUNDATION PLAN - AREA C2

DRAWN BY:	BSE
PROJECT NO:	12-087-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.6

Project Phase
BID DOCUMENTS

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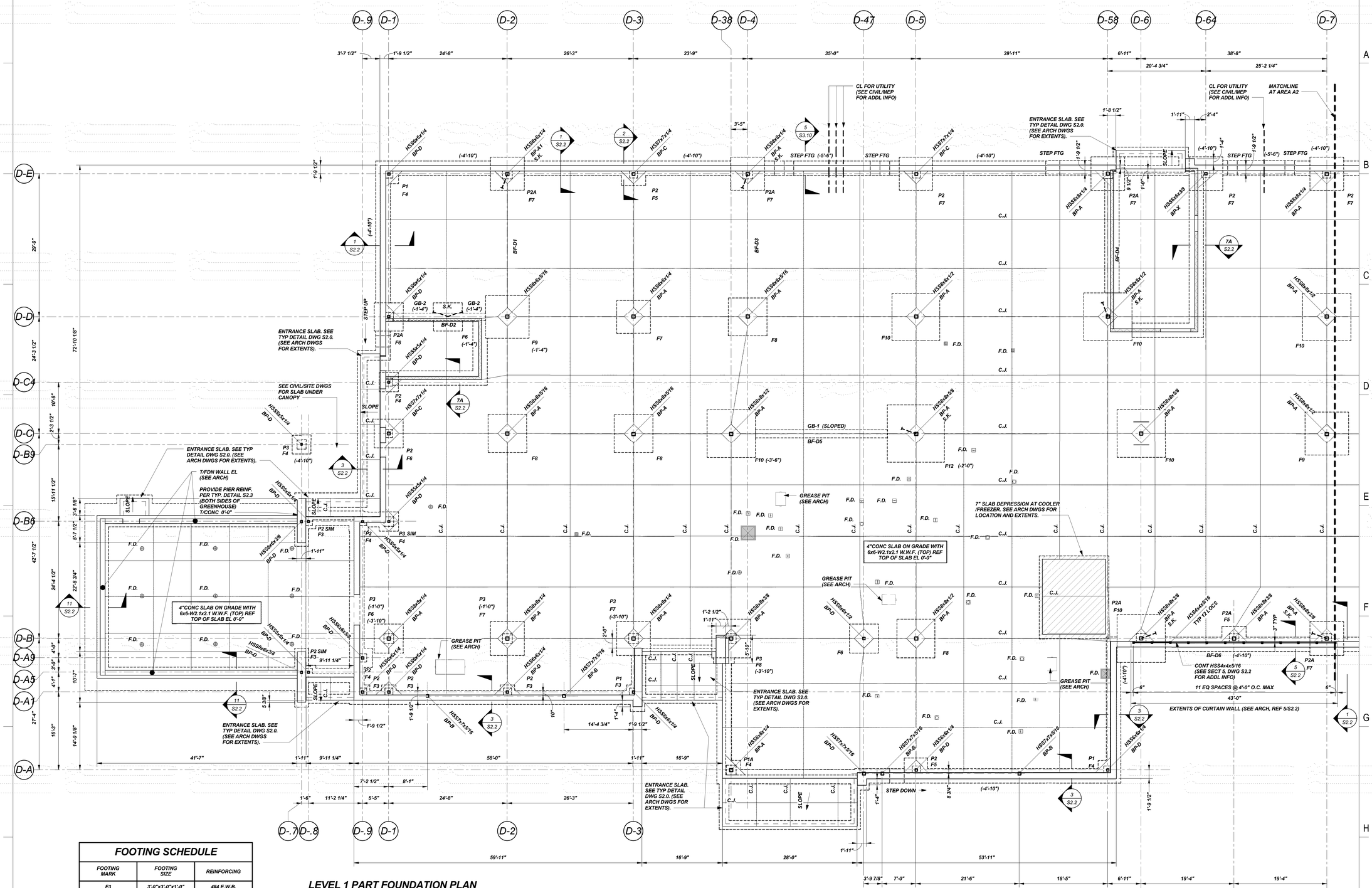

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Px INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
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14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

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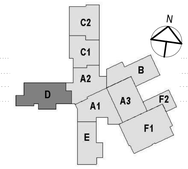
SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA D

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.7

Project Phase: BID DOCUMENTS

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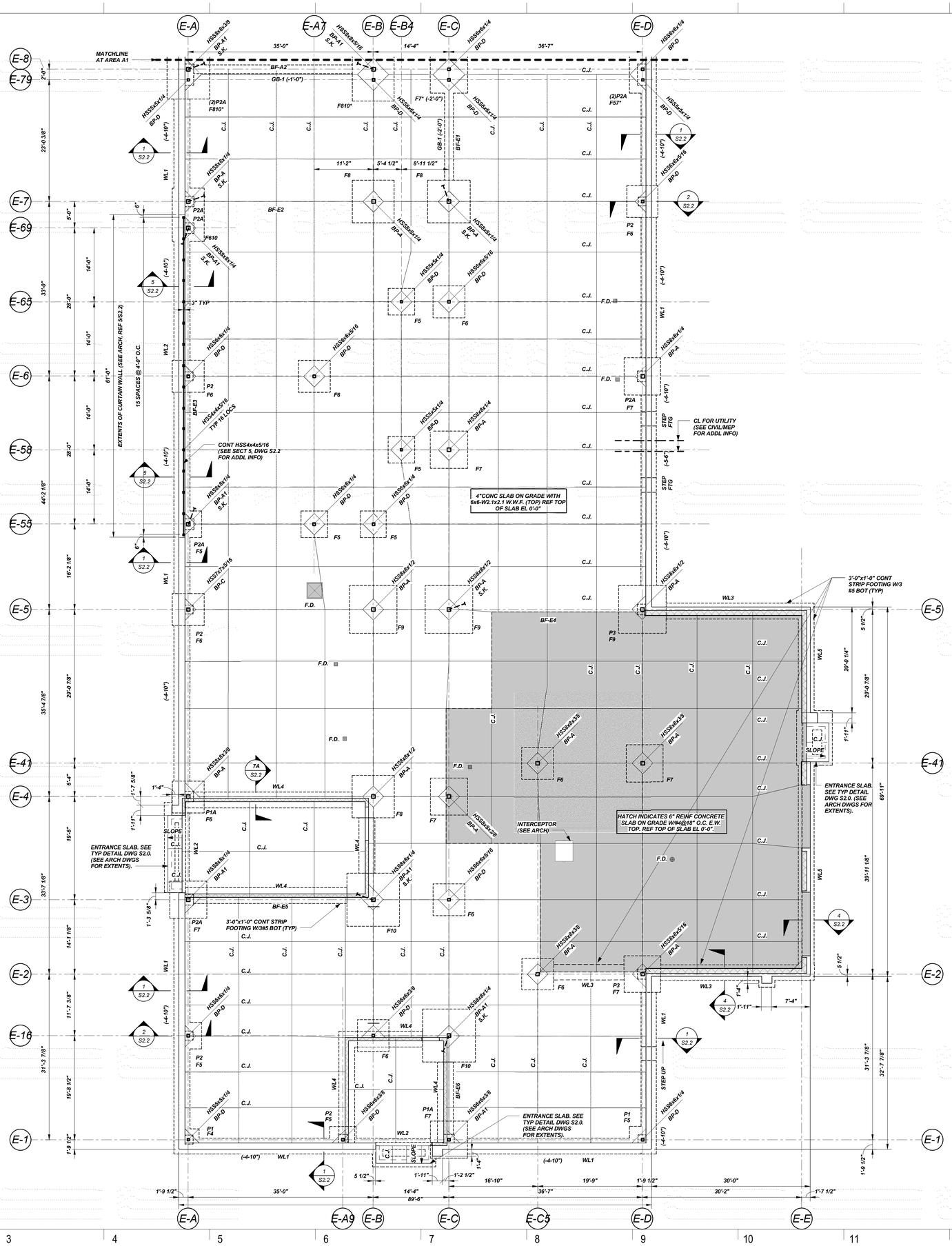

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BPx INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

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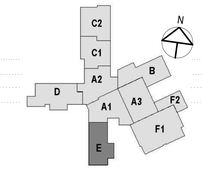

CONTENT: LEVEL 1 PART FOUNDATION PLAN - AREA E

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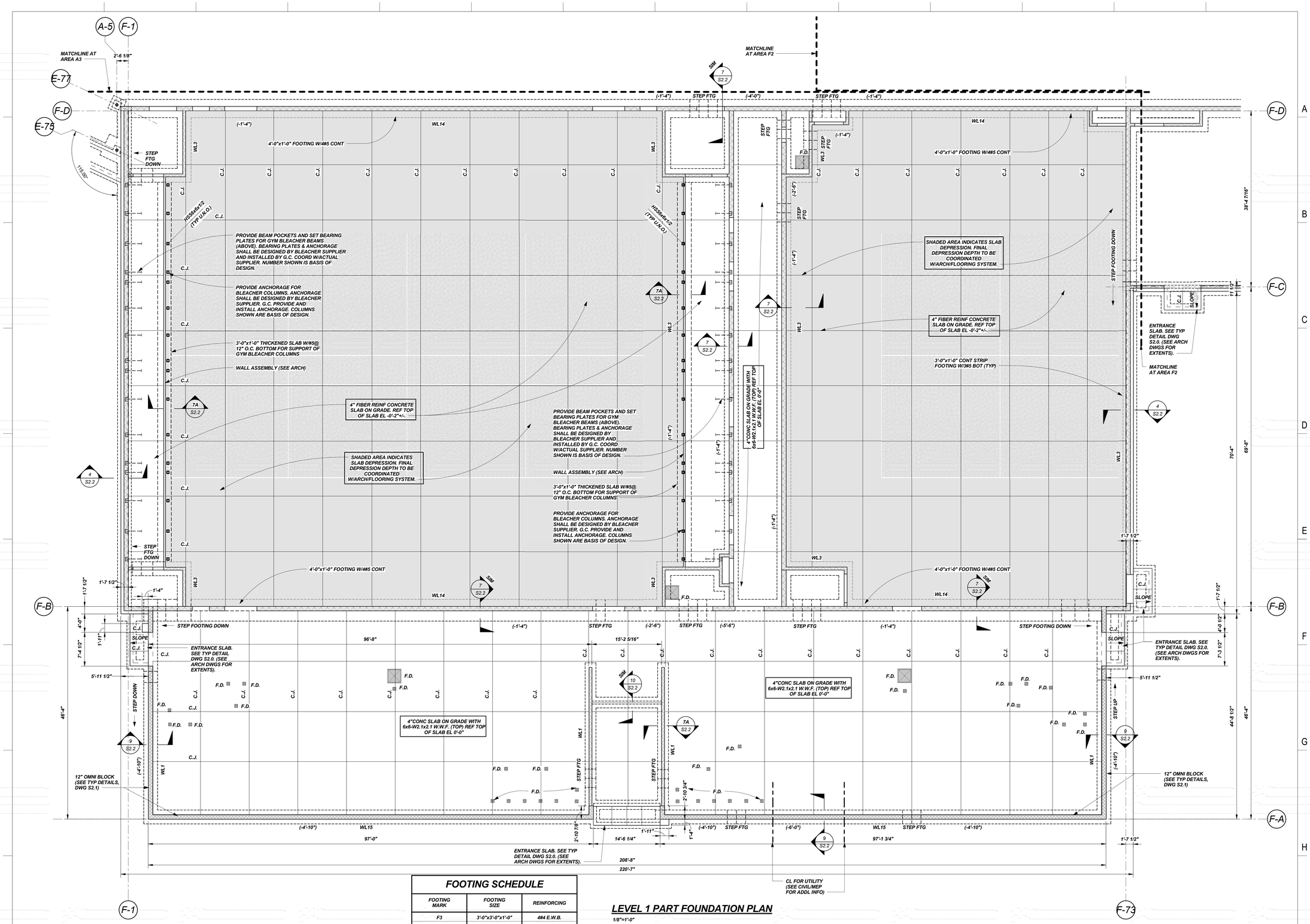

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

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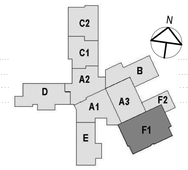

CONTENT:
LEVEL 1 PART FOUNDATION PLAN - AREA F1

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
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SCALE: As indicated

S1.9

Project Phase
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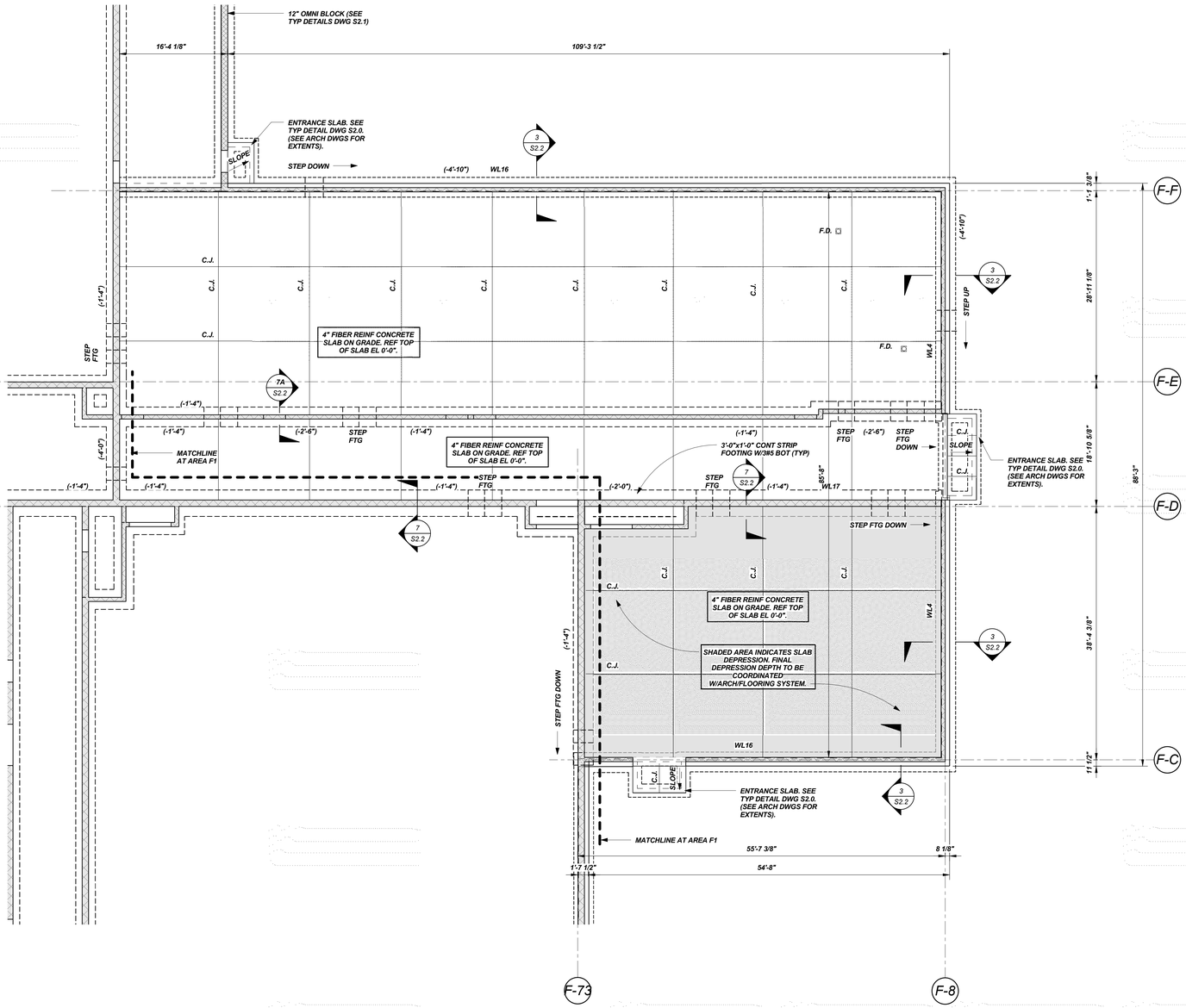

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F3	3'-0"x3'-0"x1'-0"	4#4 E.W.B.
F4	4'-0"x4'-0"x1'-0"	4#4 E.W.B.
F5	5'-0"x5'-0"x1'-0"	5#5 E.W.B.
F6	6'-0"x6'-0"x1'-2"	6#6 E.W.B.
F7	7'-0"x7'-0"x1'-6"	6#6 E.W.B.
F8	8'-0"x8'-0"x1'-8"	6#7 E.W.B.
F9	9'-0"x9'-0"x1'-10"	8#7 E.W.B.
F10	10'-0"x10'-0"x2'-0"	9#7 E.W.B.
F11	11'-0"x11'-0"x2'-2"	8#8 E.W.B.
F12	12'-0"x12'-0"x2'-4"	10#8 E.W.B.
F57	5'-0"x7'-0"x1'-6"	4#6 L.W.B. 6#6 S.W.B.
F810	8'-0"x10'-0"x1'-8"	8#6 L.W.B. 10#6 S.W.B.
F912	9'-0"x12'-0"x2'-4"	6#8 L.W.B. 10#8 S.W.B.
F1011	10'-0"x11'-0"x2'-2"	7#8 L.W.B. 8#8 S.W.B.

* INDIATES FOOTING W/ REINF TOP & BOTTOM.

LEVEL 1 PART FOUNDATION PLAN

1/8"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF INTERIOR FOOTING EL (-1'-0") U.N.O.
4. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
5. Px INDICATES REINF CONCRETE PIER. SEE PIER DETAILS DWG S2.3. NOTE: BOND OUT WALL STEM AS REQD FOR BASE PLATE. DO NOT BOND OUT BRICKSHELF.
6. TOP OF PIER EL (-0'-8") U.N.O.
7. F.D. INDICATES FLOOR DRAIN. COORD ALL FLOOR DRAINS (W/ASSOCIATED SLOPES) & SLAB PENETRATIONS W/ARCH & MEP DWGS.
8. BP-x INDICATES COLUMN BASE PLATE. SEE DWG S3.1 FOR BASE PLATE DETAILS.
9. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.
10. S.K. INDICATES SHEAR KEY. SEE DETAIL A/S4.1& BASE PLATES DETAILS, DWG S3.1 FOR ADDITIONAL INFORMATION.
11. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
12. GB-1 INDICATES GRADE BEAM. SEE TYP DETAIL DWG S2.1.
13. WL1, WL2, ETC. INDICATES WALL LOCATIONS THAT REQUIRE THE RAMMED AGGREGATE PIER SYSTEM. SEE PLANS FOR LOCATIONS & DWG S01 FOR ADDL INFO.
14. PROVIDE THICKENED SLAB AT CMU PARTITIONS. SEE ARCH DWGS FOR LOCATIONS. SEE TYP DETAIL DWG S2.1.
15. G. C. TO COORDINATE ALL PLUMBING WITH FOOTING ELEVATIONS. DO NOT SLEEVE THROUGH FOOTINGS.

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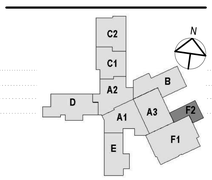

CONTENT:
LEVEL 1 PART FOUNDATION PLAN - AREA F2

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2", -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST SHARING A COMMON BEARING SURFACE W/LH-SERIES OR COMPOSITE SERIES JOIST.
11. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
12. "36VC1200/640/170[28]" INDICATES COMPOSITE STEEL JOIST DESIGNATION. DESIGNATION KEY IS AS FOLLOWS (ALL LOADS UNFACTORED):

36 VC 1200 / 640/ 170 [28]

- JOIST DEPTH
- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS
- INDICATES CMU SUPPORT. POST COMP DEAD & LIVE LOAD DEFLECTION LIMIT = L/600

NOTE: ALL STAIR STRUCTURES SHALL BE DESIGNED BY A SPECIALTY ENGINEER HIRED BY THE FABRICATOR. ALL DESIGNS SHALL MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH THE ARCHITECTURAL DRAWINGS, AND SUBMIT COMPLETE FABRICATION DRAWINGS WITH ALL NECESSARY SUPPORTING ENGINEERING CALCULATIONS FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE.

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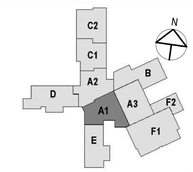

CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA A1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.11

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LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

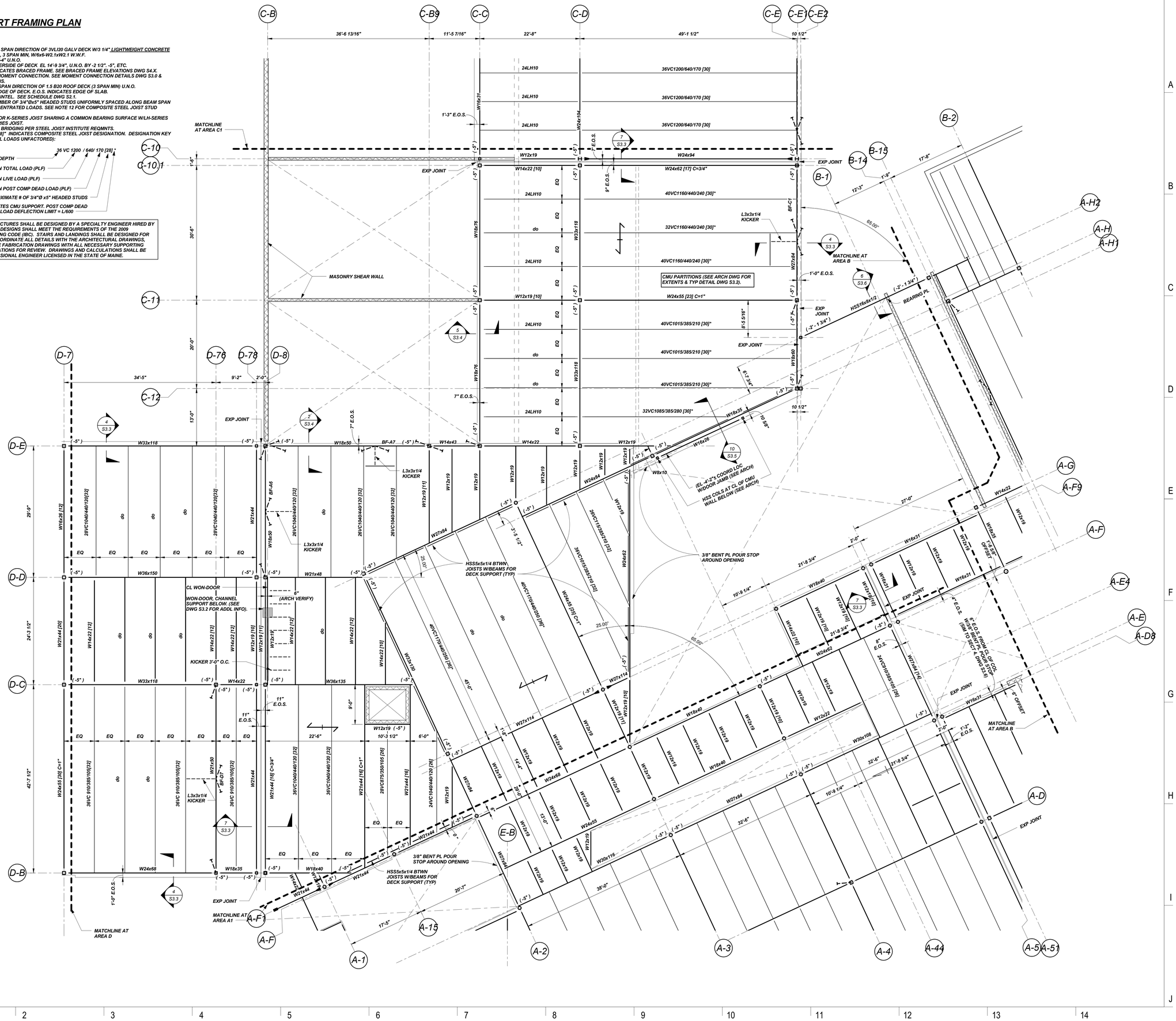
NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2", -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST SHARING A COMMON BEARING SURFACE W/LH-SERIES OR COMPOSITE SERIES JOIST.
11. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
12. "36VC1200/640/170[28]" INDICATES COMPOSITE STEEL JOIST DESIGNATION. DESIGNATION KEY IS AS FOLLOWS (ALL LOADS UNFACTORED):

36 VC 1200 / 640/ 170 [28]

- JOIST DEPTH
- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS
- INDICATES CMU SUPPORT. POST COMP DEAD & LIVE LOAD DEFLECTION LIMIT = L/600

NOTE: ALL STAIR STRUCTURES SHALL BE DESIGNED BY A SPECIALTY ENGINEER HIRED BY THE FABRICATOR. ALL DESIGNS SHALL MEET THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH THE ARCHITECTURAL DRAWINGS, AND SUBMIT COMPLETE FABRICATION DRAWINGS WITH ALL NECESSARY SUPPORTING ENGINEERING CALCULATIONS FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE.



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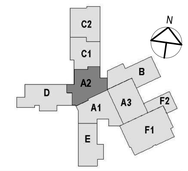
SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA A2

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.12

Project Phase
BID DOCUMENTS

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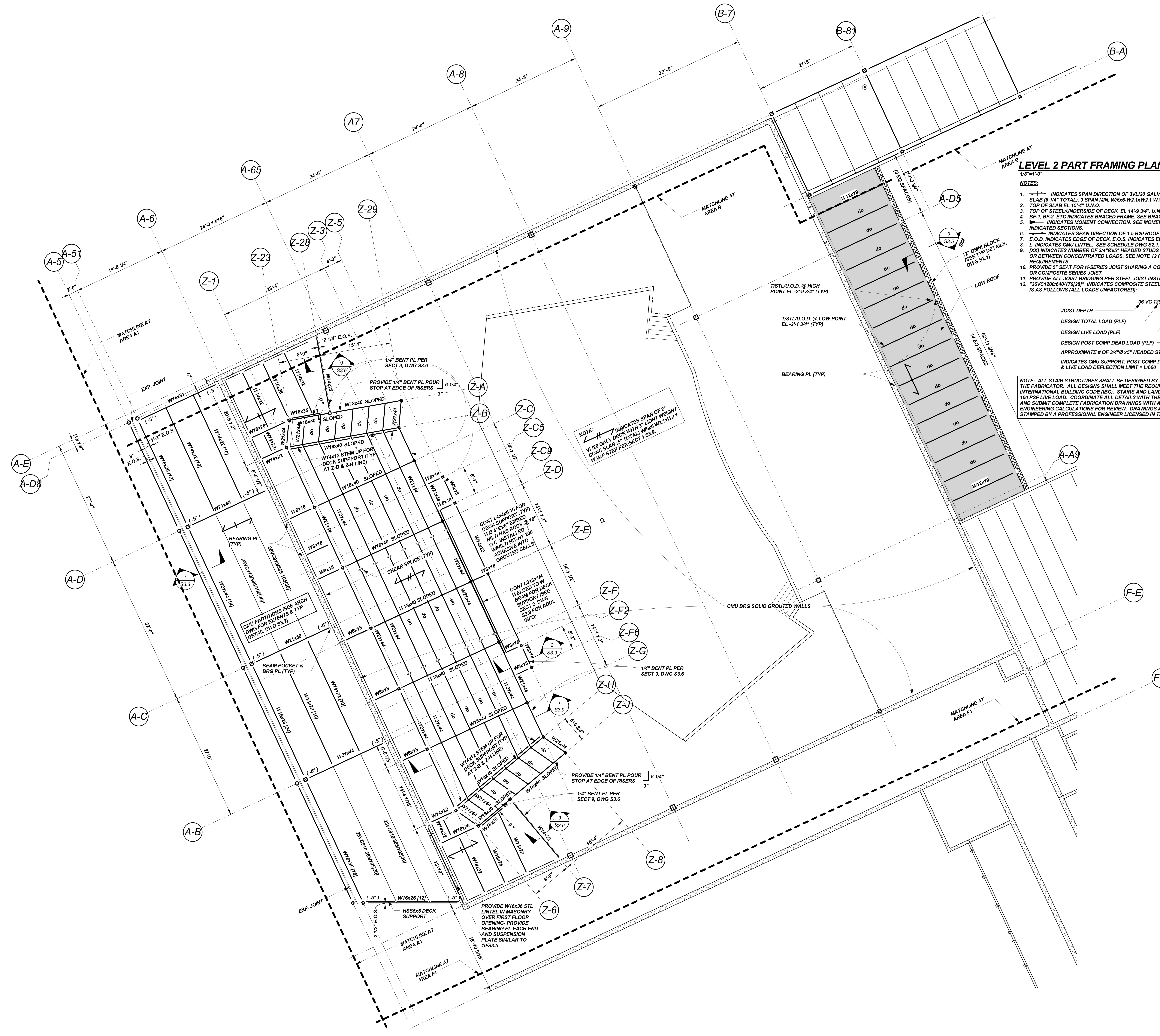

LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2". -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST SHARING A COMMON BEARING SURFACE W/LH-SERIES OR COMPOSITE SERIES JOIST.
11. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
12. "36VC1200/640/170[28]" INDICATES COMPOSITE STEEL JOIST DESIGNATION. DESIGNATION KEY IS AS FOLLOWS (ALL LOADS UNFACTORED):

36 VC 1200 / 640/ 170 [28] *

- JOIST DEPTH
- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS
- INDICATES CMU SUPPORT. POST COMP DEAD & LIVE LOAD DEFLECTION LIMIT = L/600

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SANFORD, ME 04073

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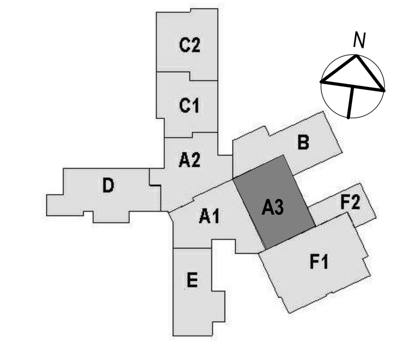

CONTENT:

LEVEL 2 PART FRAMING PLAN - AREA A3

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.13

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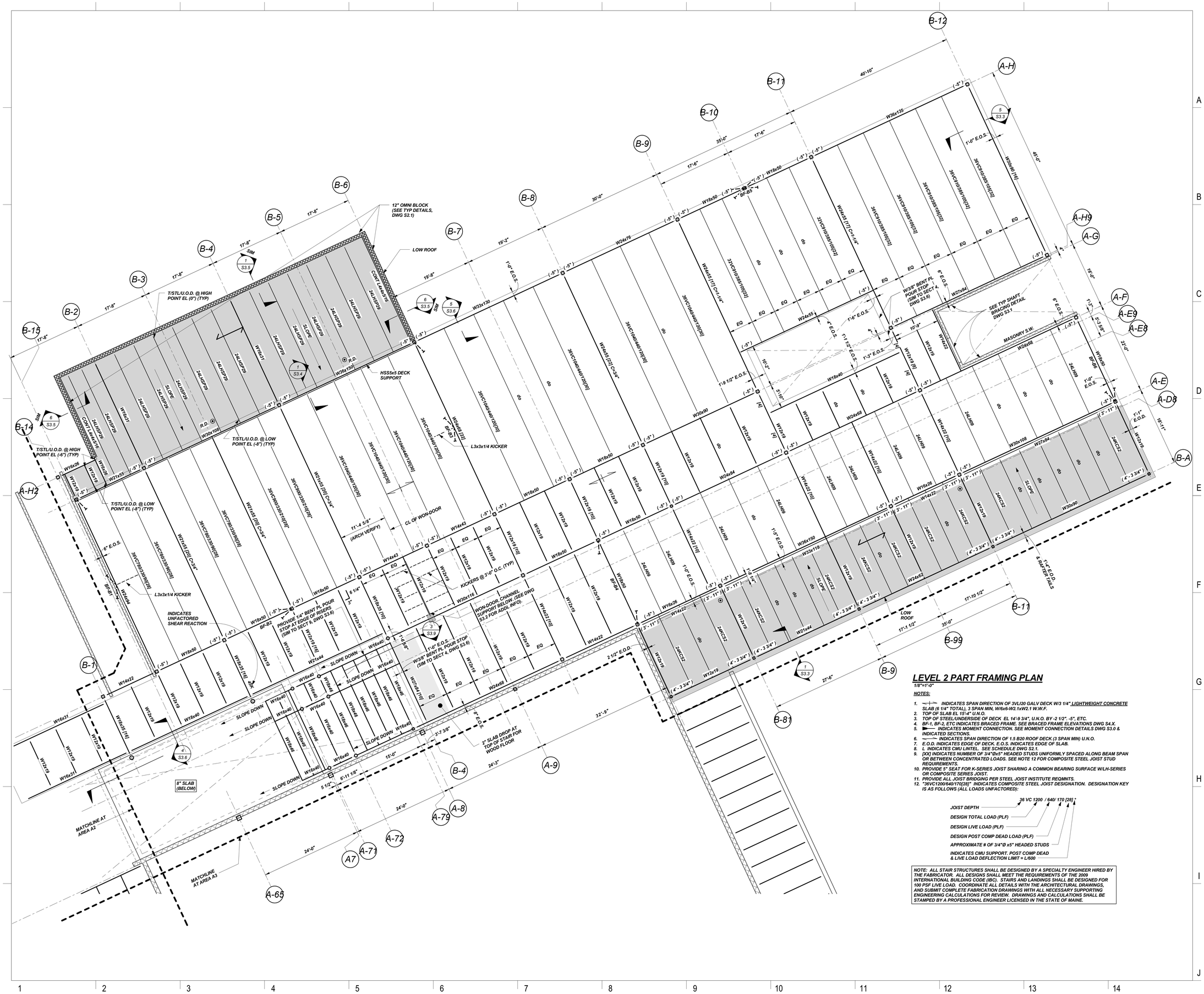

LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2". -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST SHARING A COMMON BEARING SURFACE W/LH-SERIES OR COMPOSITE SERIES JOIST.
11. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
12. "36VC1200/640/170[28]" INDICATES COMPOSITE STEEL JOIST DESIGNATION. DESIGNATION KEY IS AS FOLLOWS (ALL LOADS UNFACTORED):

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- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS
- INDICATES CMU SUPPORT. POST COMP DEAD & LIVE LOAD DEFLECTION LIMIT = L/600

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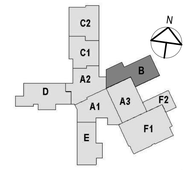

CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA B

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.14

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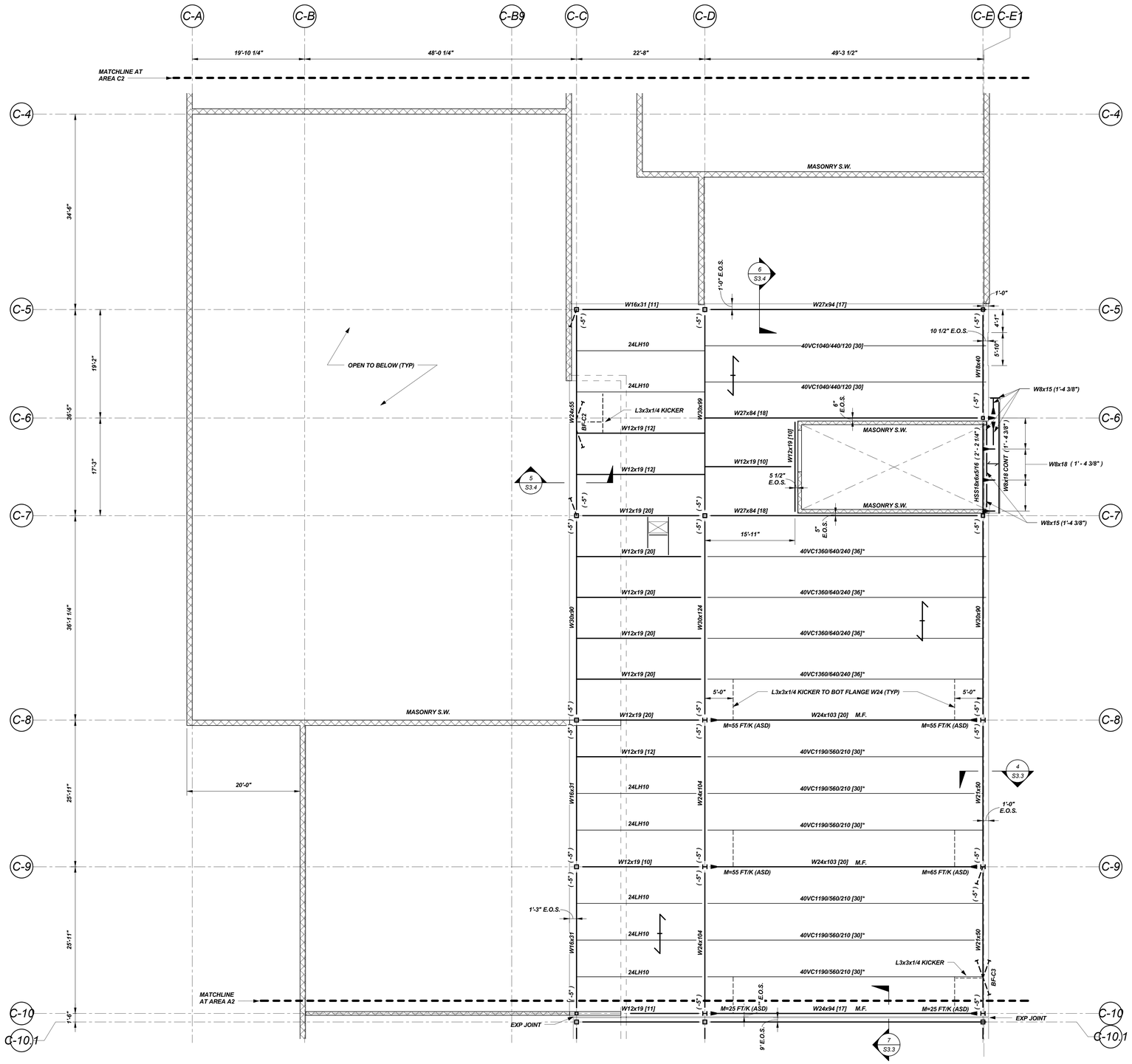

LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2". -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
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- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
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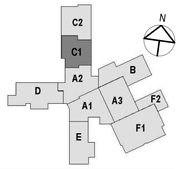

CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA C1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

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Project Phase
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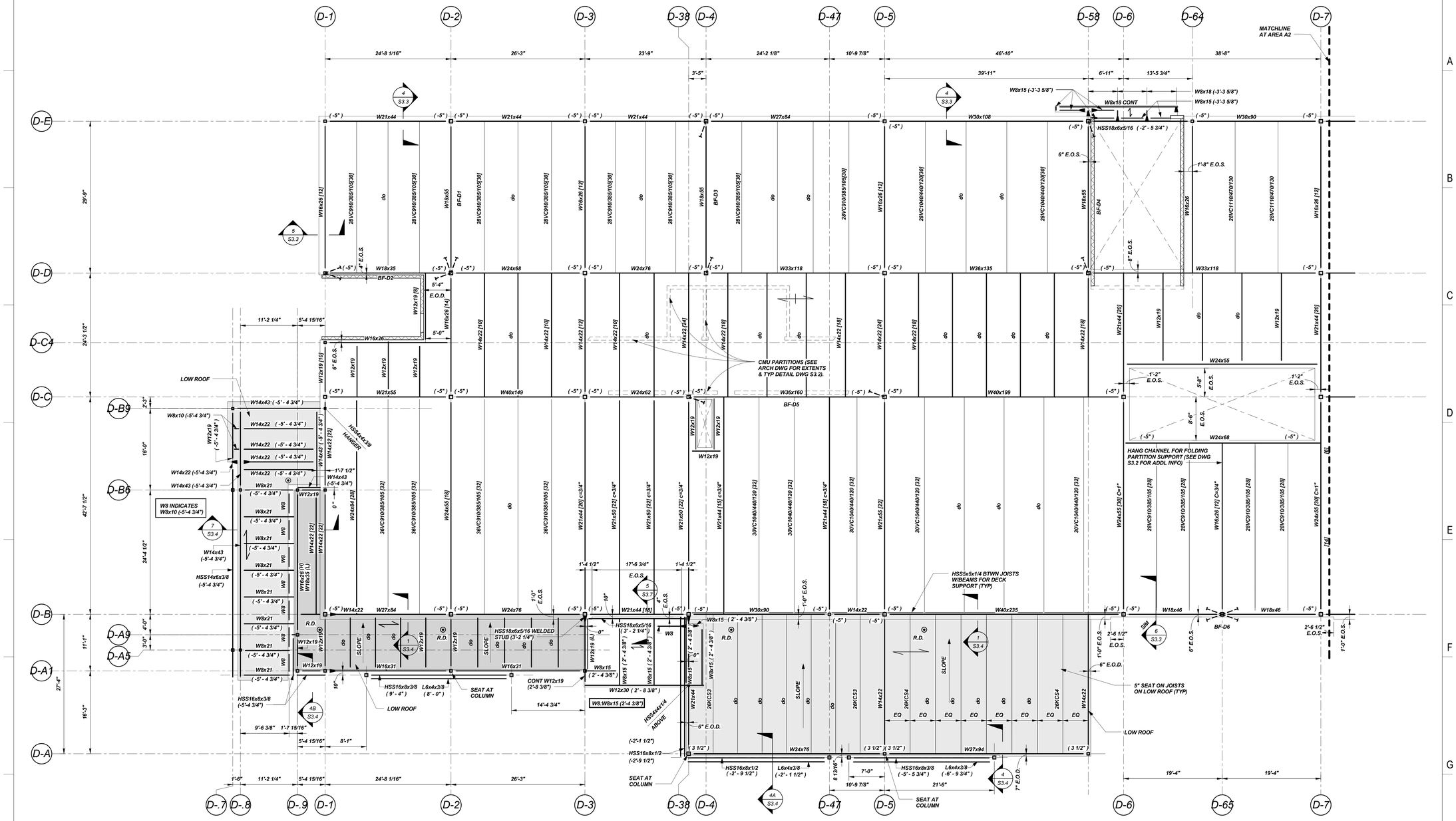

LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4". U.N.O. BY -2 1/2". -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAILS DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5 B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S2.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST SHARING A COMMON BEARING SURFACE W/LH-SERIES OR COMPOSITE SERIES JOIST.
11. PROVIDE ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
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- DESIGN TOTAL LOAD (PLF)
- DESIGN LIVE LOAD (PLF)
- DESIGN POST COMP DEAD LOAD (PLF)
- APPROXIMATE # OF 3/4"Ø x5" HEADED STUDS
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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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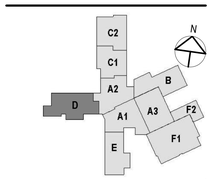

CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA D

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

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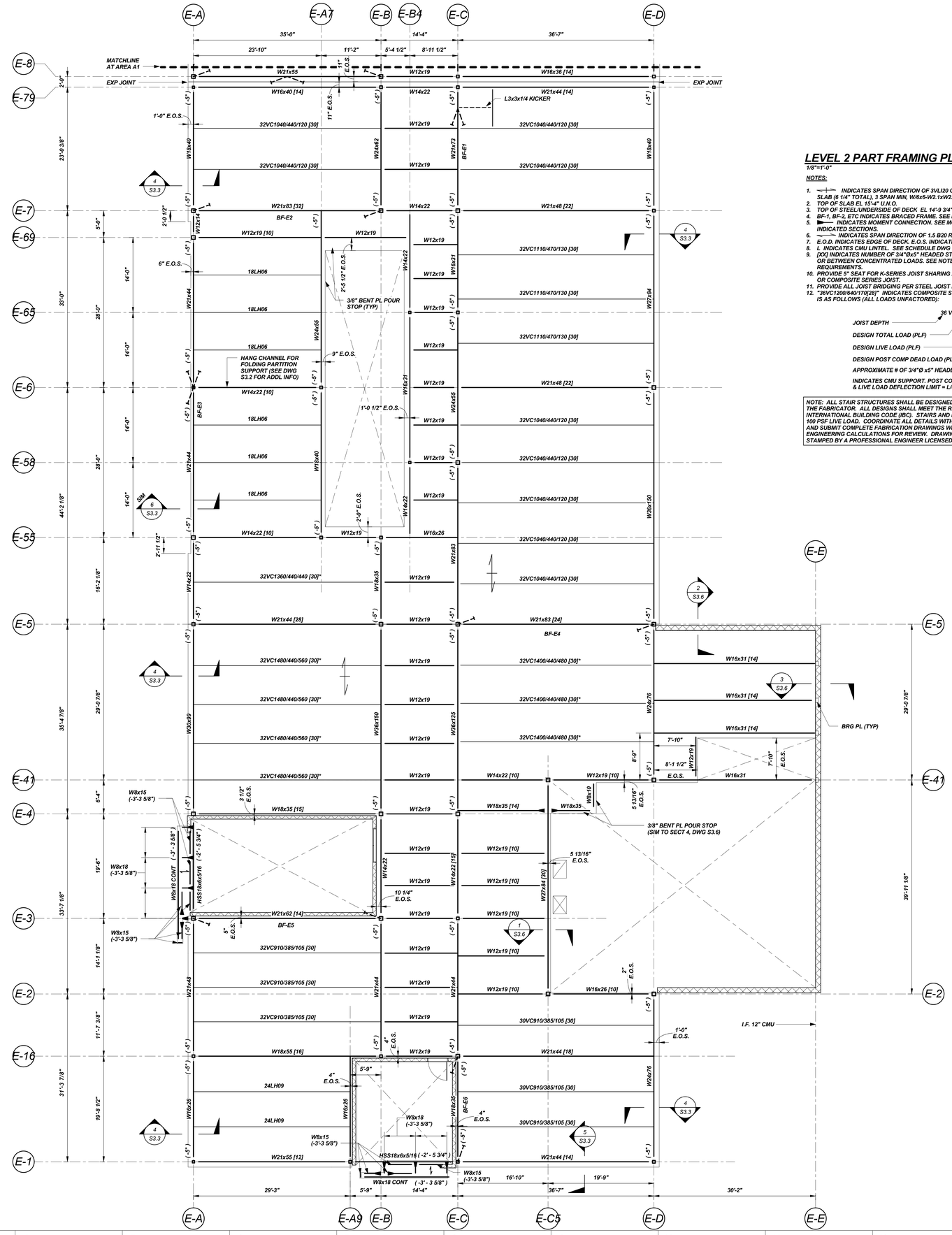

LEVEL 2 PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 3VLI20 GALV DECK W/3 1/4" LIGHTWEIGHT CONCRETE SLAB (6 1/4" TOTAL), 3 SPAN MIN, W/6x6-W2.1xW2.1 W.W.F.
2. TOP OF SLAB EL 15'-4" U.N.O.
3. TOP OF STEEL/UNDERSIDE OF DECK EL 14'-9 3/4", U.N.O. BY -2 1/2". -5", ETC.
4. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
5. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL.S DWG S3.0 & INDICATED SECTIONS.
6. INDICATES SPAN DIRECTION OF 1.5.B20 ROOF DECK (3 SPAN MIN) U.N.O.
7. E.O.D. INDICATES EDGE OF DECK. E.O.S. INDICATES EDGE OF SLAB.
8. L INDICATES CMU LINTEL. SEE SCHEDULE DWG S3.1.
9. [XX] INDICATES NUMBER OF 3/4"Øx5" HEADED STUDS UNIFORMLY SPACED ALONG BEAM SPAN OR BETWEEN CONCENTRATED LOADS. SEE NOTE 12 FOR COMPOSITE STEEL JOIST STUD REQUIREMENTS.
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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

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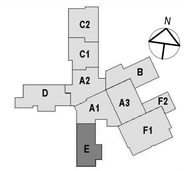

CONTENT:
LEVEL 2 PART FRAMING PLAN - AREA E

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

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Project Phase
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ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
3. TOP OF STEEL/UNDERSIDE OF DECK EL 30'-8" U.N.O. BY (.X'-X.X", ETC.)
4. ** INDICATES DIMENSION TO BE COORDINATED W/MECHANICAL EQUIPMENT.
5. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
6. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.0.
7. R.D. INDICATES ROOF DRAIN (SEE ARCH).
8. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.
9. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST WHEN SHARING A COMMON BEARING SURFACE W/LH-SERIES JOIST.
11. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.
12. PROVIDE SUPPLEMENTARY ANGLE SUPPORT AT ROOF OPENINGS. SEE DWG S3.0.

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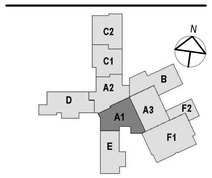
SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT: ROOF PART FRAMING PLAN - AREA A1

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PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.21

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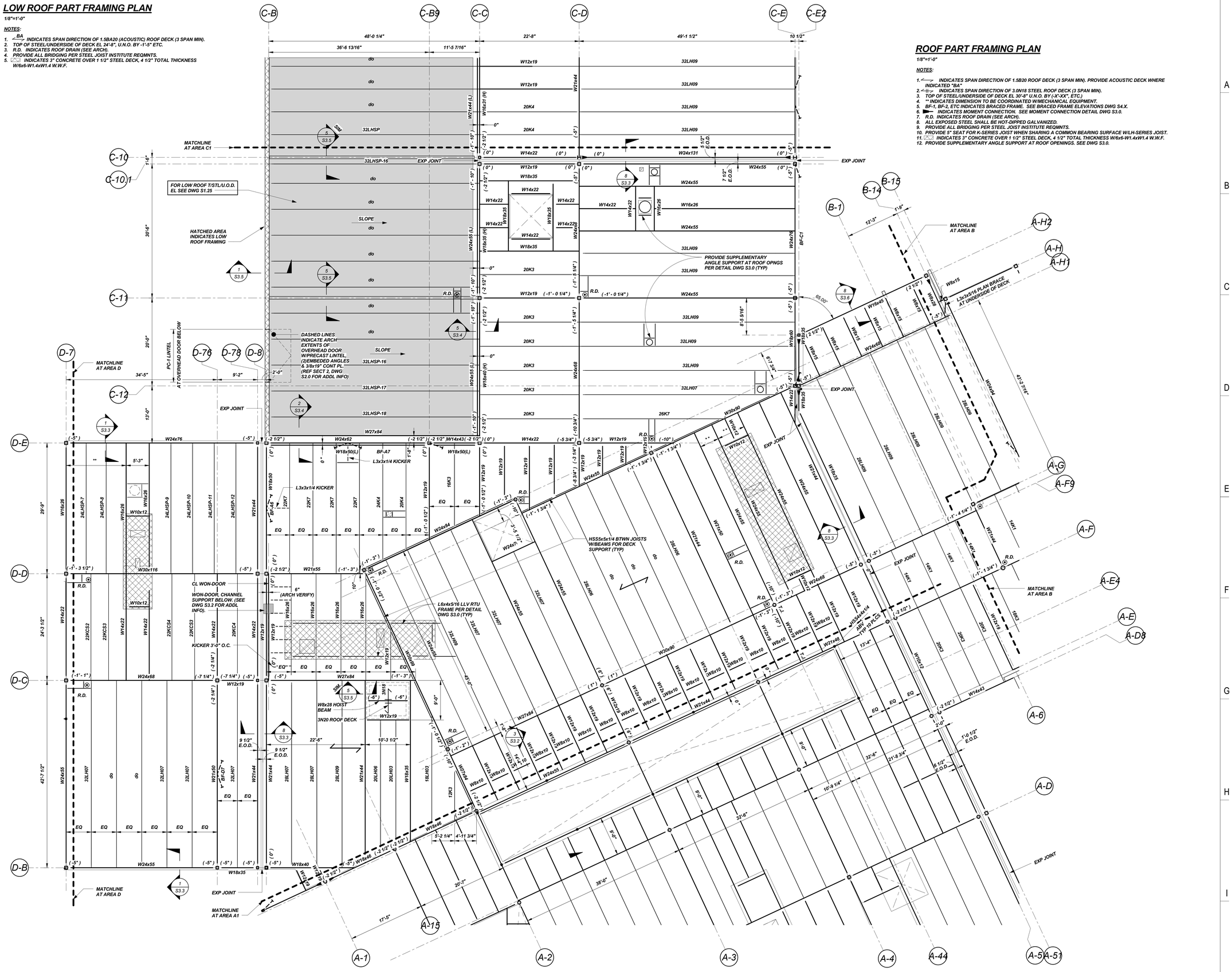
LOW ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. BA INDICATES SPAN DIRECTION OF 1.5BA20 (ACOUSTIC) ROOF DECK (3 SPAN MIN).
2. TOP OF STEEL/UNDERSIDE OF DECK EL 24'-8", U.N.O. BY -1'-5" ETC.
3. R.D. INDICATES ROOF DRAIN (SEE ARCH).
4. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
5. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.



ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
3. TOP OF STEEL/UNDERSIDE OF DECK EL 30'-8" U.N.O. BY (-X'-XX", ETC.)
4. ** INDICATES DIMENSION TO BE COORDINATED W/MECHANICAL EQUIPMENT.
5. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
6. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.0.
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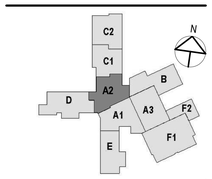

CONTENT: ROOF PART FRAMING PLAN - AREA A2

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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S1.22

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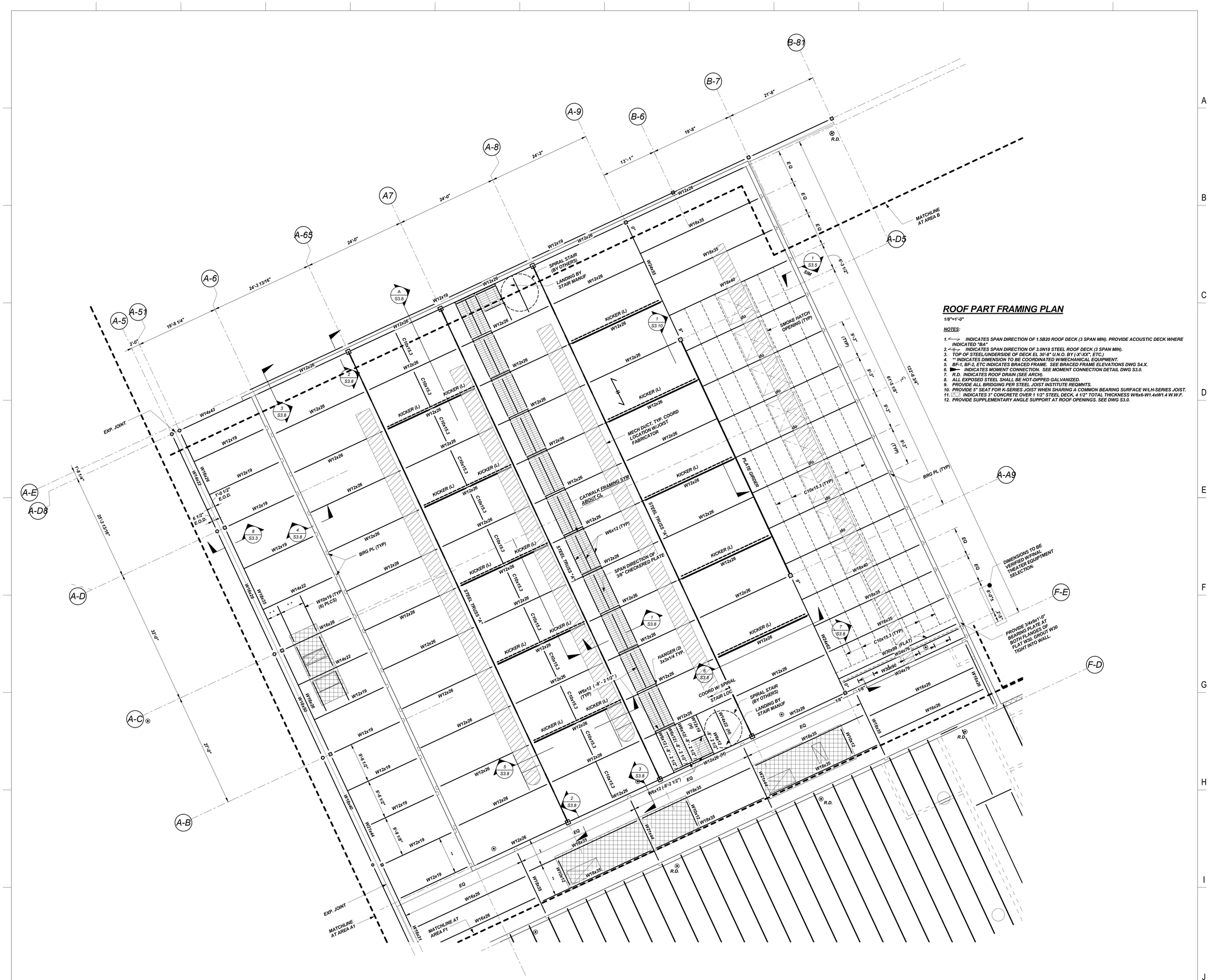

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
3. TOP OF STEEL/UNDERSIDE OF DECK EL 30'-8" U.N.O. BY (-X'-XX". ETC.)
4. " INDICATES DIMENSION TO BE COORDINATED W/MECHANICAL EQUIPMENT.
5. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
6. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.0.
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9. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST WHEN SHARING A COMMON BEARING SURFACE W/LH-SERIES JOIST.
11. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.
12. PROVIDE SUPPLEMENTARY ANGLE SUPPORT AT ROOF OPENINGS. SEE DWG S3.0.

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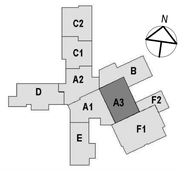

CONTENT:
ROOF PART FRAMING PLAN - AREA A3

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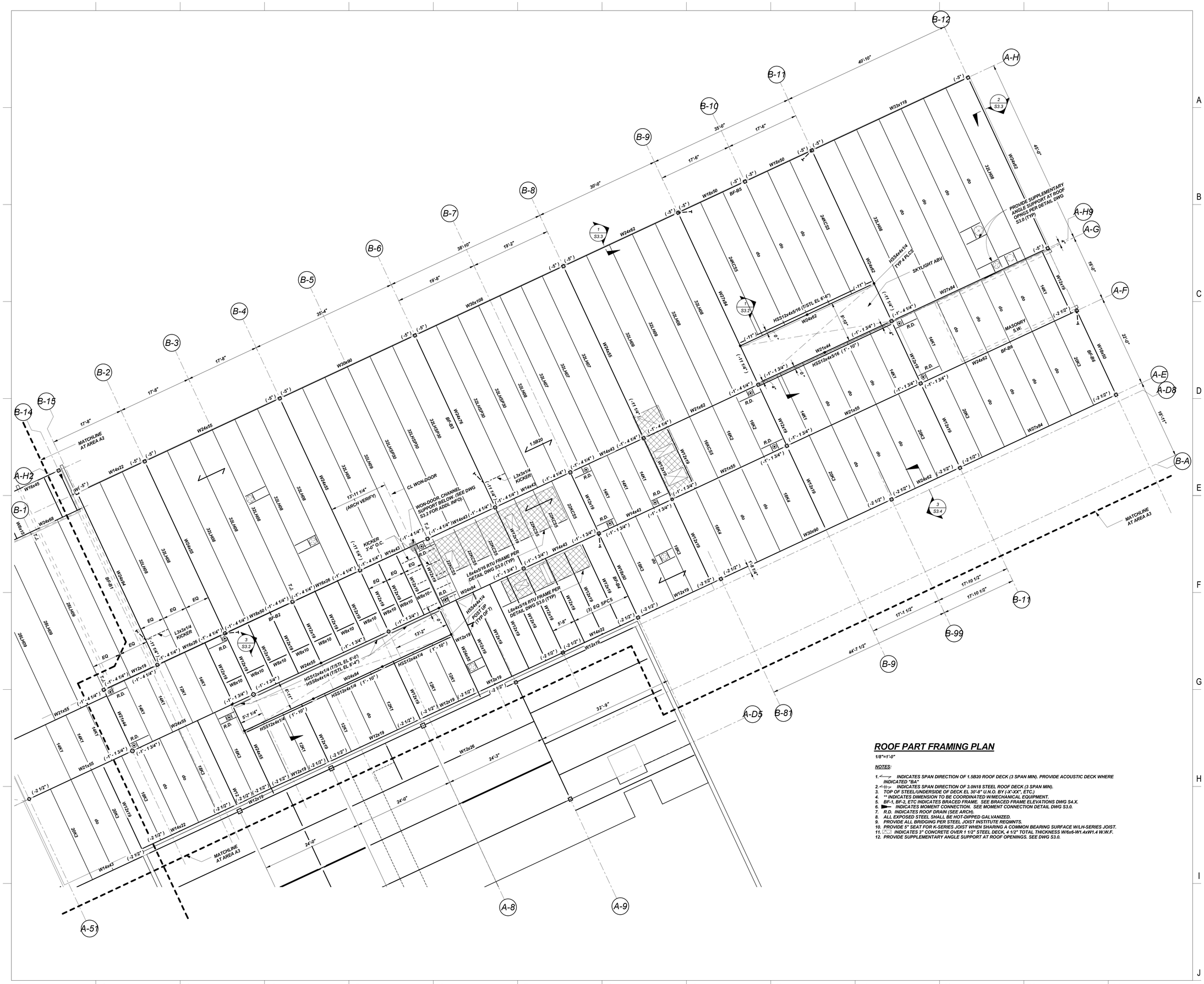

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
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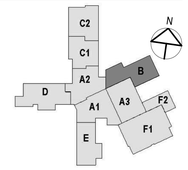

CONTENT: ROOF PART FRAMING PLAN - AREA B

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.24

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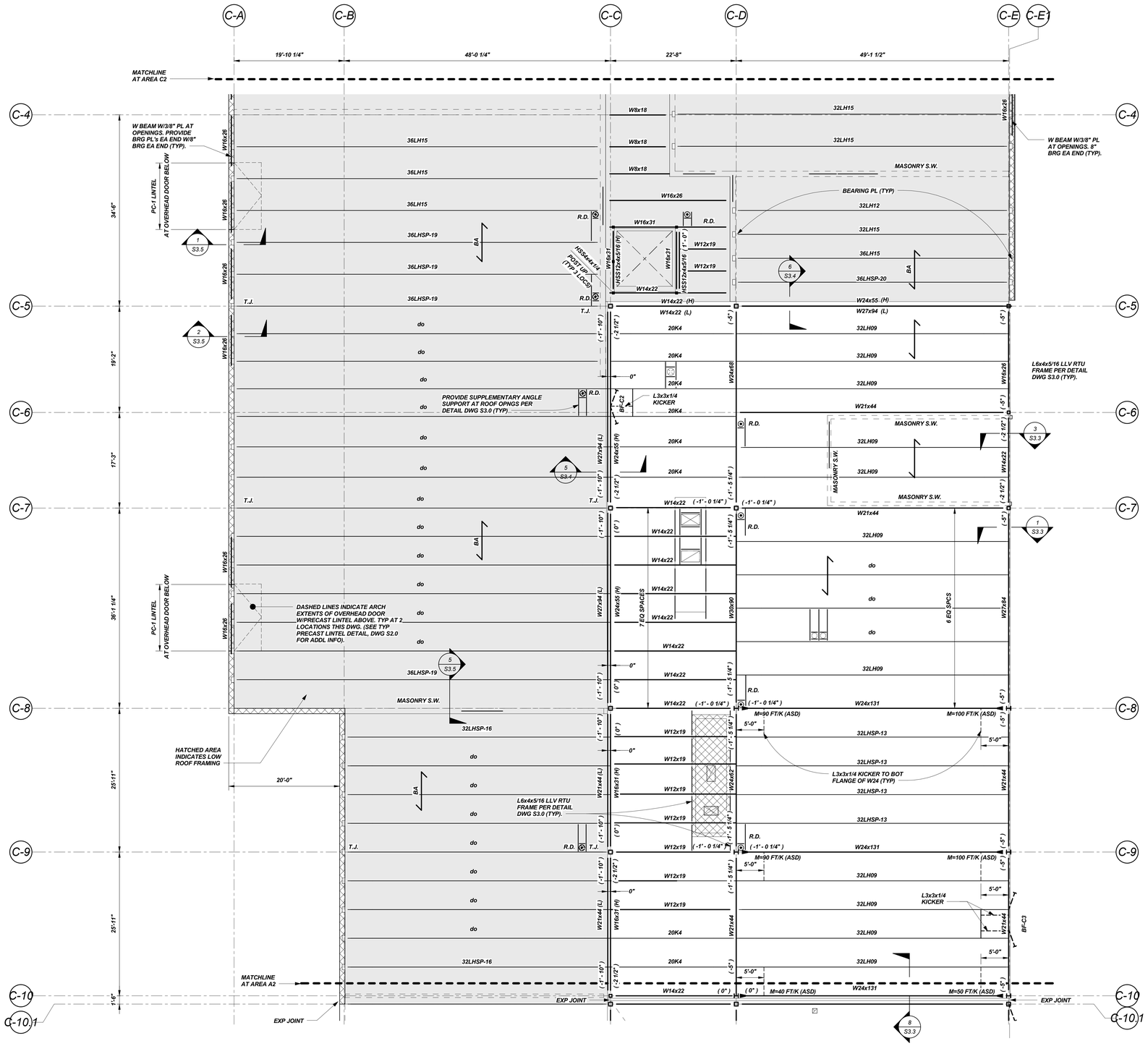

LOW ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. BA INDICATES SPAN DIRECTION OF 1.5BA20 (ACOUSTIC) ROOF DECK (3 SPAN MIN).
2. TOP OF STEEL/UNDERSIDE OF DECK EL 24'-8", U.N.O. BY -1'-5" ETC.
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4. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
5. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
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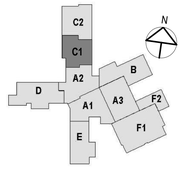

CONTENT:
ROOF PART FRAMING PLAN - AREA C1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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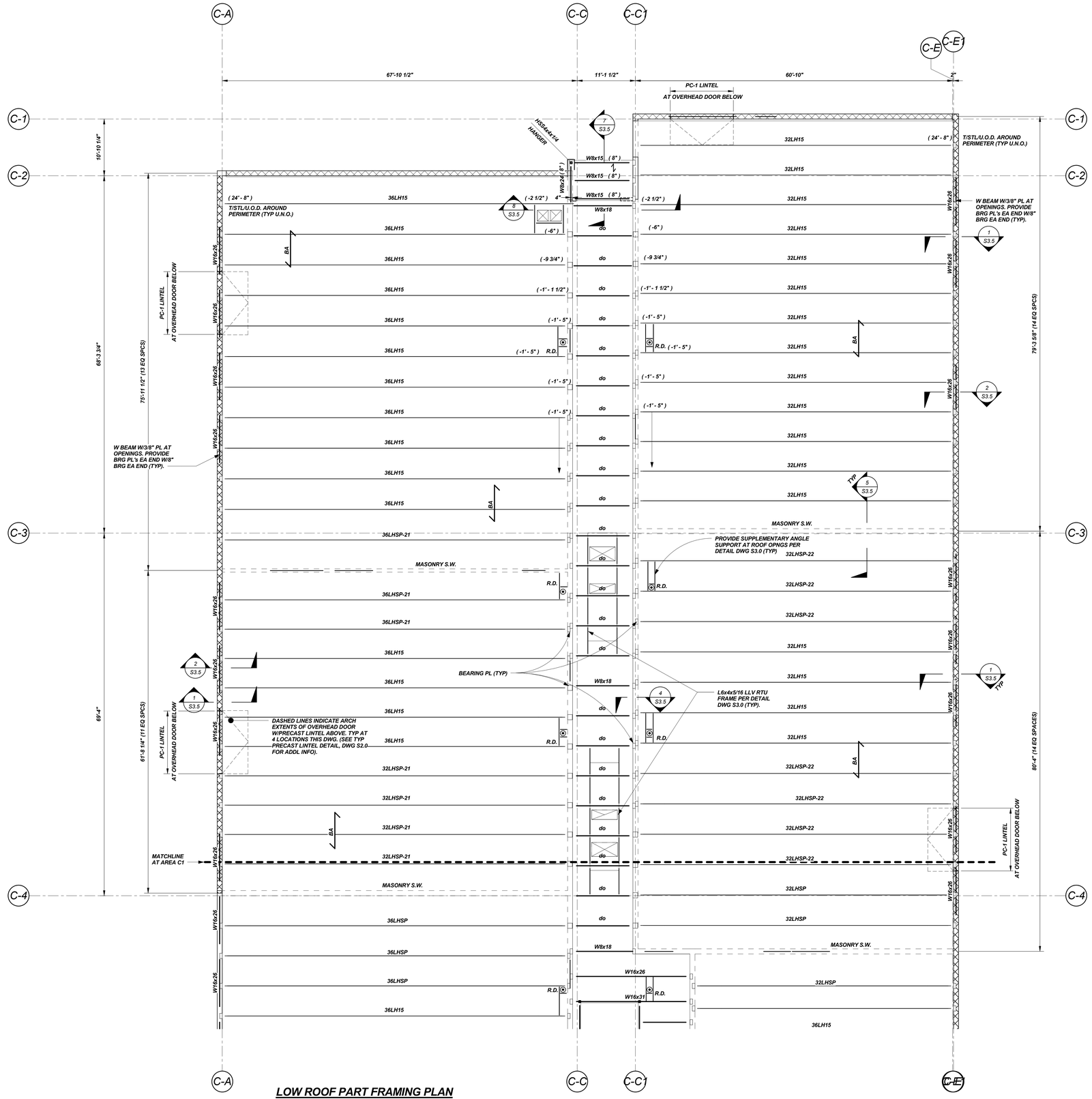

LOW ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. BA INDICATES SPAN DIRECTION OF 1.5BA20 (ACOUSTIC) ROOF DECK (3 SPAN MIN).
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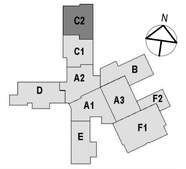
NO.	DESCRIPTION	DATE



CONTENT:
ROOF PART FRAMING PLAN - AREA C2

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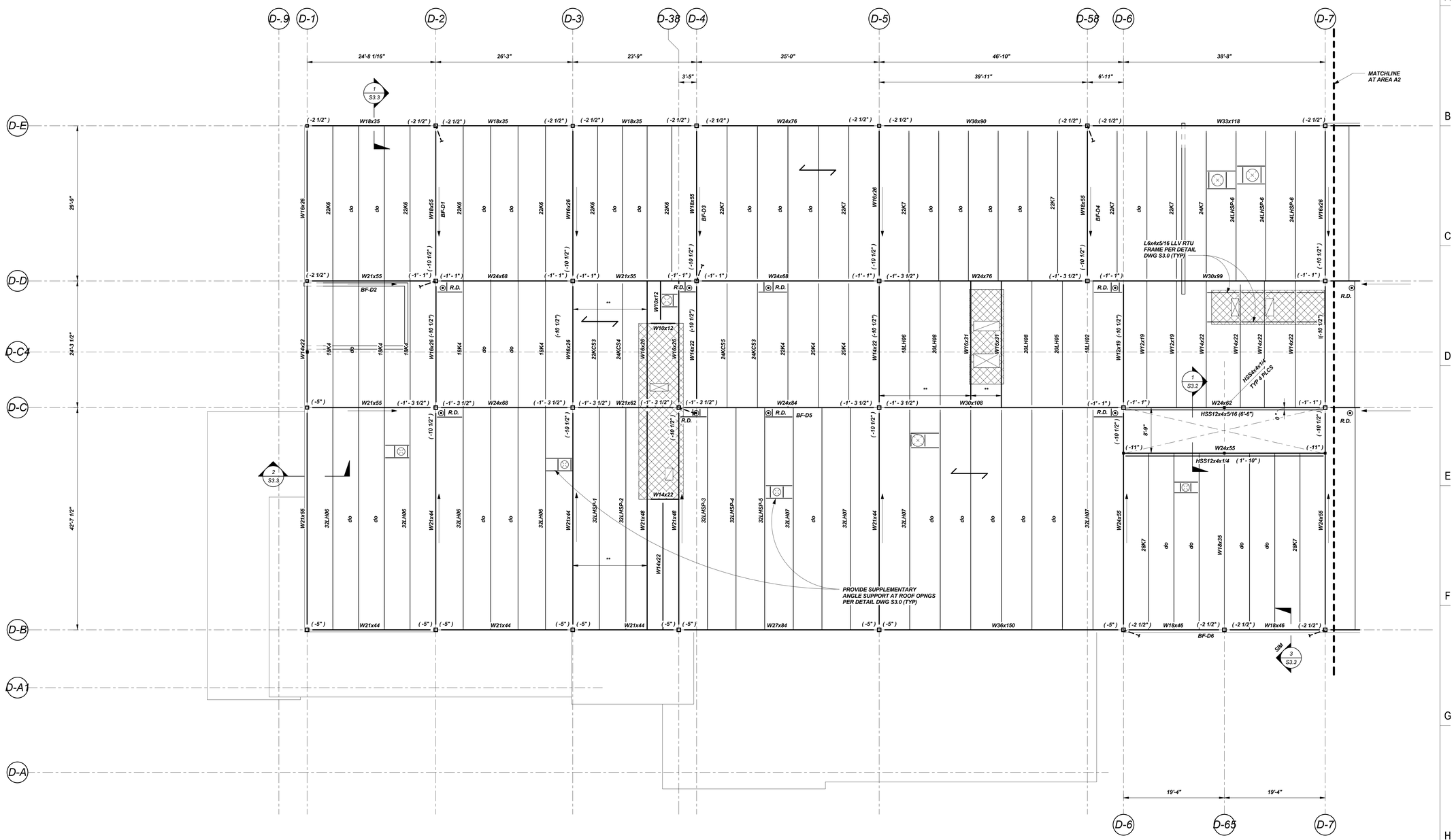

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
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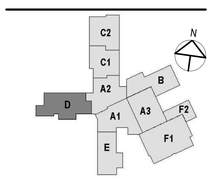

CONTENT:
ROOF PART FRAMING PLAN - AREA D

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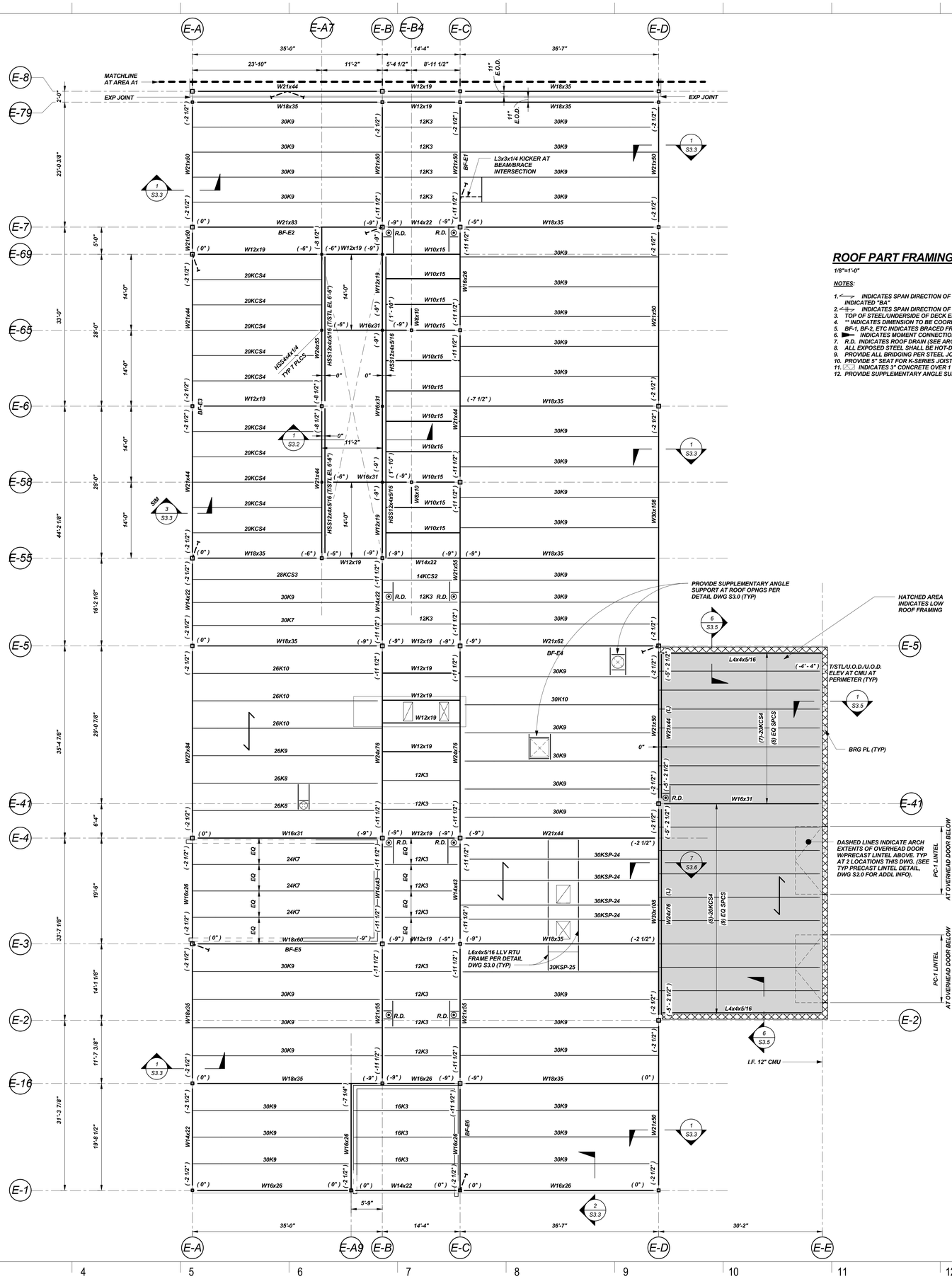

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "SA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
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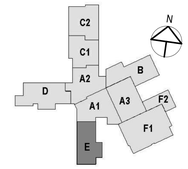
SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE



CONTENT:
ROOF PART FRAMING PLAN - AREA E

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.28

Project Phase
BID DOCUMENTS

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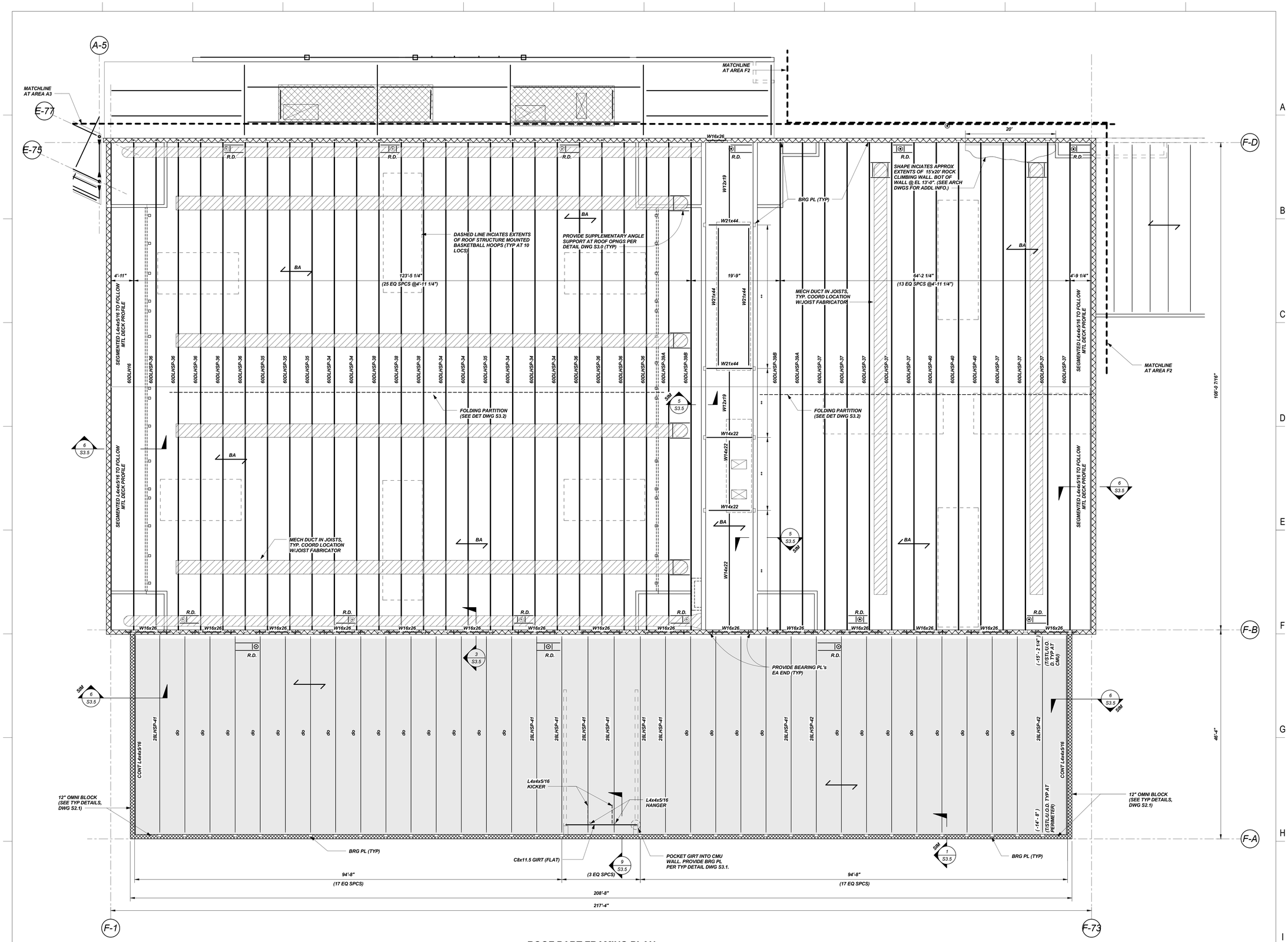
2/9/2016 12:41:20 PM C:\Users\Whitney\Documents\3291_SANFORD TECH FACILITY CENTRAL_r16_Whitney.rvt



ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
3. TOP OF STEEL/UNDERSIDE OF DECK EL 30'-8" U.N.O. BY (-X'-XX", ETC.)
4. ** INDICATES DIMENSION TO BE COORDINATED W/MECHANICAL EQUIPMENT.
5. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
6. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.0.
7. R.D. INDICATES ROOF DRAIN (SEE ARCH).
8. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.
9. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST WHEN SHARING A COMMON BEARING SURFACE W/LH-SERIES JOIST.
11. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.
12. PROVIDE SUPPLEMENTARY ANGLE SUPPORT AT ROOF OPENINGS. SEE DWG S3.0.

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

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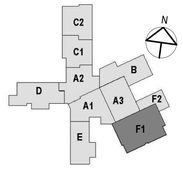

CONTENT:
ROOF PART FRAMING PLAN - AREA F1

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.29

Project Phase
BID DOCUMENTS

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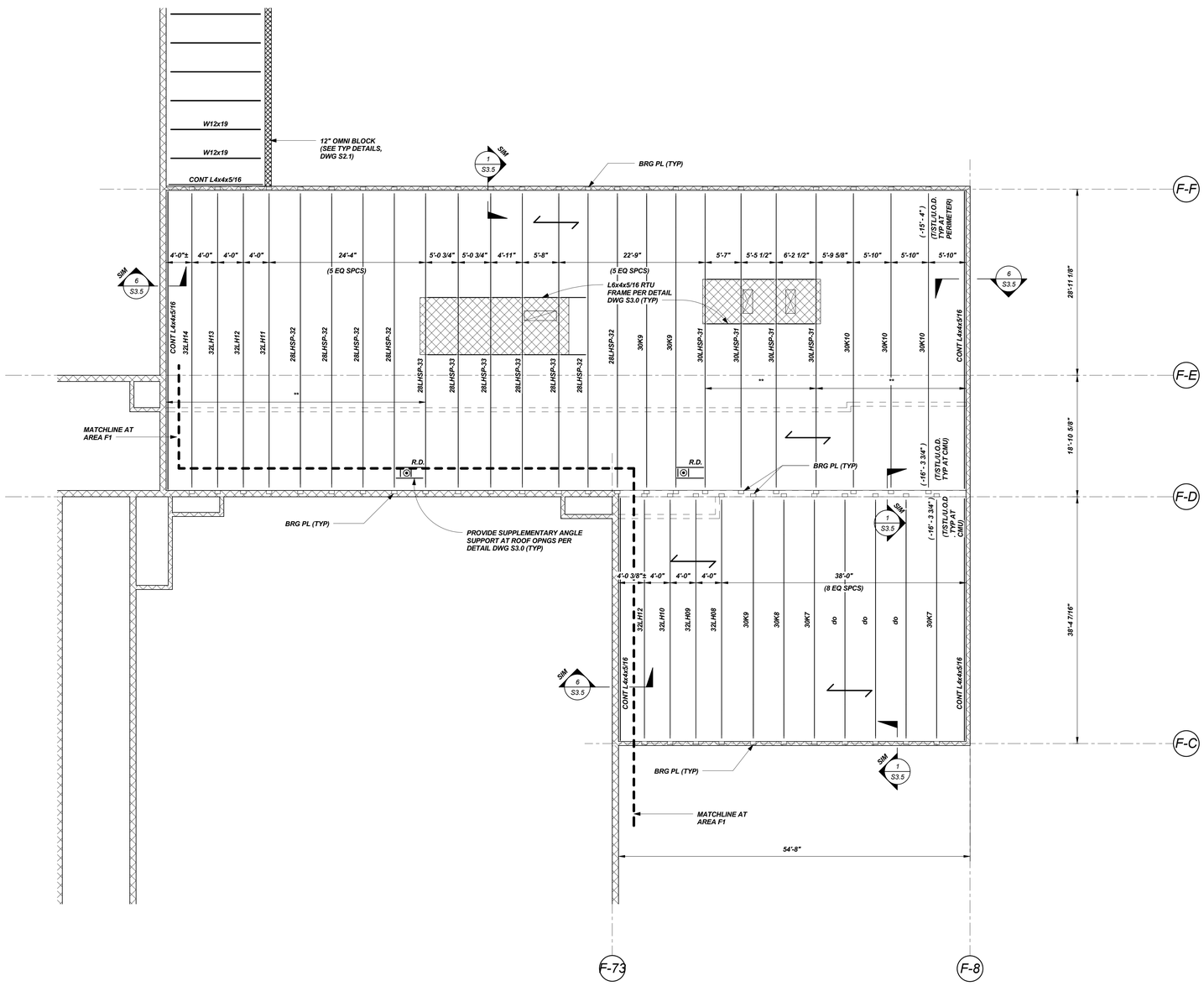

ROOF PART FRAMING PLAN

1/8"=1'-0"

NOTES:

1. INDICATES SPAN DIRECTION OF 1.5B20 ROOF DECK (3 SPAN MIN). PROVIDE ACOUSTIC DECK WHERE INDICATED "BA"
2. INDICATES SPAN DIRECTION OF 3.0N18 STEEL ROOF DECK (3 SPAN MIN).
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5. BF-1, BF-2, ETC INDICATES BRACED FRAME. SEE BRACED FRAME ELEVATIONS DWG S4.X.
6. INDICATES MOMENT CONNECTION. SEE MOMENT CONNECTION DETAIL DWG S3.0.
7. R.D. INDICATES ROOF DRAIN (SEE ARCH).
8. ALL EXPOSED STEEL SHALL BE HOT-DIPPED GALVANIZED.
9. PROVIDE ALL BRIDGING PER STEEL JOIST INSTITUTE REQMNTS.
10. PROVIDE 5" SEAT FOR K-SERIES JOIST WHEN SHARING A COMMON BEARING SURFACE W/LH-SERIES JOIST.
11. INDICATES 3" CONCRETE OVER 1 1/2" STEEL DECK, 4 1/2" TOTAL THICKNESS W/6x6-W1.4xW1.4 W.W.F.
12. PROVIDE SUPPLEMENTARY ANGLE SUPPORT AT ROOF OPENINGS. SEE DWG S3.0.

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

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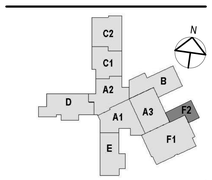
NO.	DESCRIPTION	DATE



CONTENT:
ROOF PART FRAMING PLAN - AREA F2

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S1.30

Project Phase
BID DOCUMENTS

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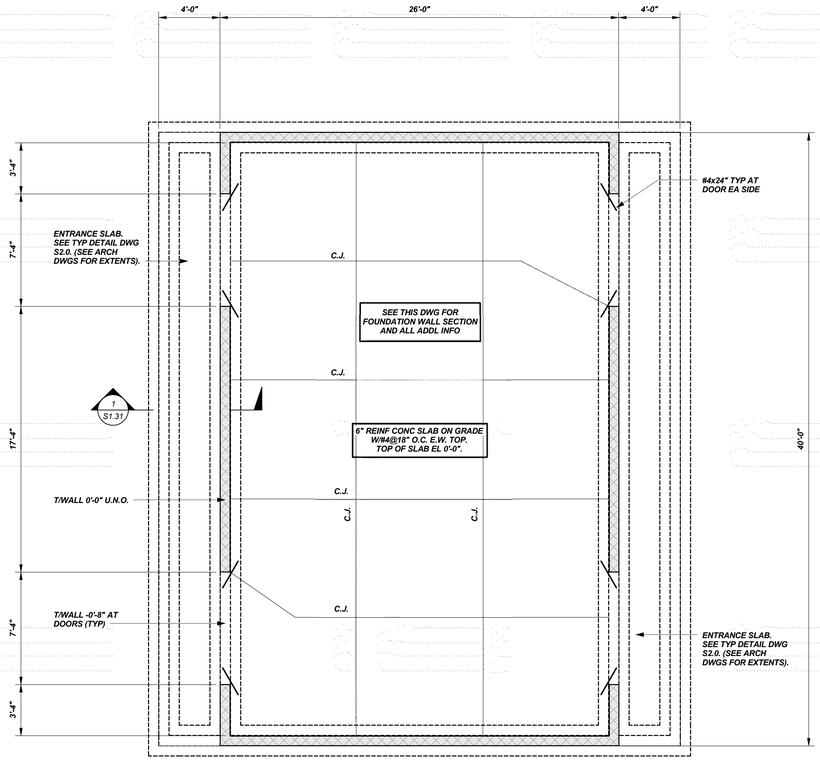
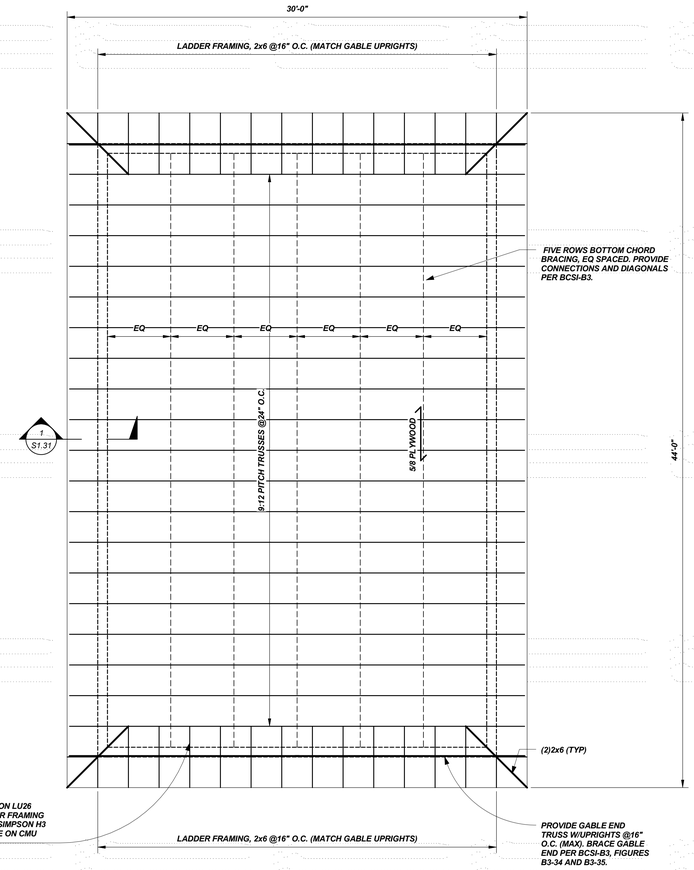


FIELD STORAGE BUILDING FOUNDATION PLAN

1/4"=1'-0"

NOTES:

1. TOP OF WALL EL 0'-0" U.N.O. BY (-0'-8"), ETC.
2. Fx" INDICATES CONCRETE FOOTING. SEE SCHEDULE THIS DWG FOR SIZE & REINF.
3. TOP OF EXTERIOR FOOTING EL (-3'-10") U.N.O.
4. Px" INDICATES REINF CONCRETE PIER.
5. TOP OF PIER EL (-0'-0") U.N.O.
6. C.J. INDICATES SLAB CONTRACTION/CONSTRUCTION JOINT. SEE TYP DETAILS DWG S2.1 FOR ADDL INFO.

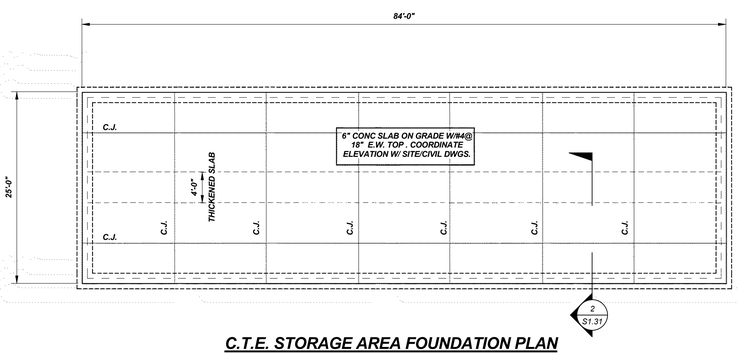


FIELD STORAGE BUILDING ROOF PLAN

1/4"=1'-0"

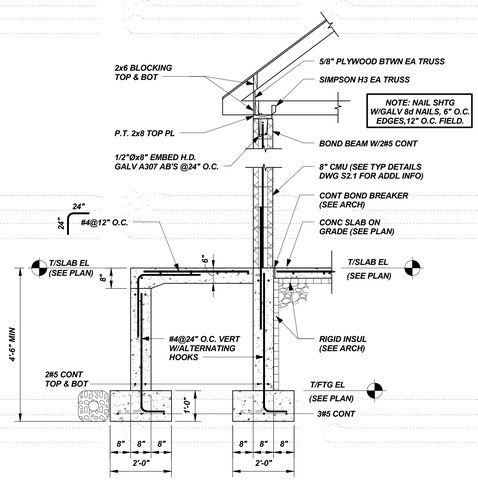
NOTES:

1. LOADS :
   TC DEAD LOAD 15 PSF
   TC SNOW LOAD 51 PSF BALANCED
   BC DEAD LOAD 15 PSF
2. TEMPORARY & PERMANENT TRUSS BRACING SHALL CONFORM W/ BCSI1, LASTEST EDITION.



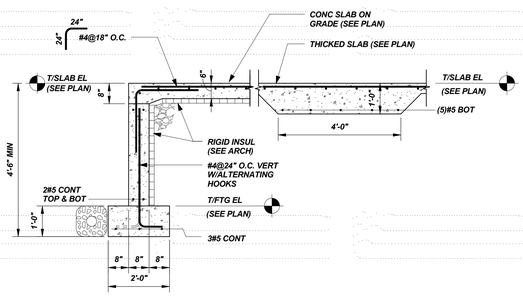
C.T.E. STORAGE AREA FOUNDATION PLAN

1/8"=1'-0"



SECTION 1/S1.31

1/2" = 1'-0"



SECTION 2/S1.31

1/2" = 1'-0"

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
FIELD HOUSE PLANS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
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SCALE:	As indicated

S1.31

Project Phase
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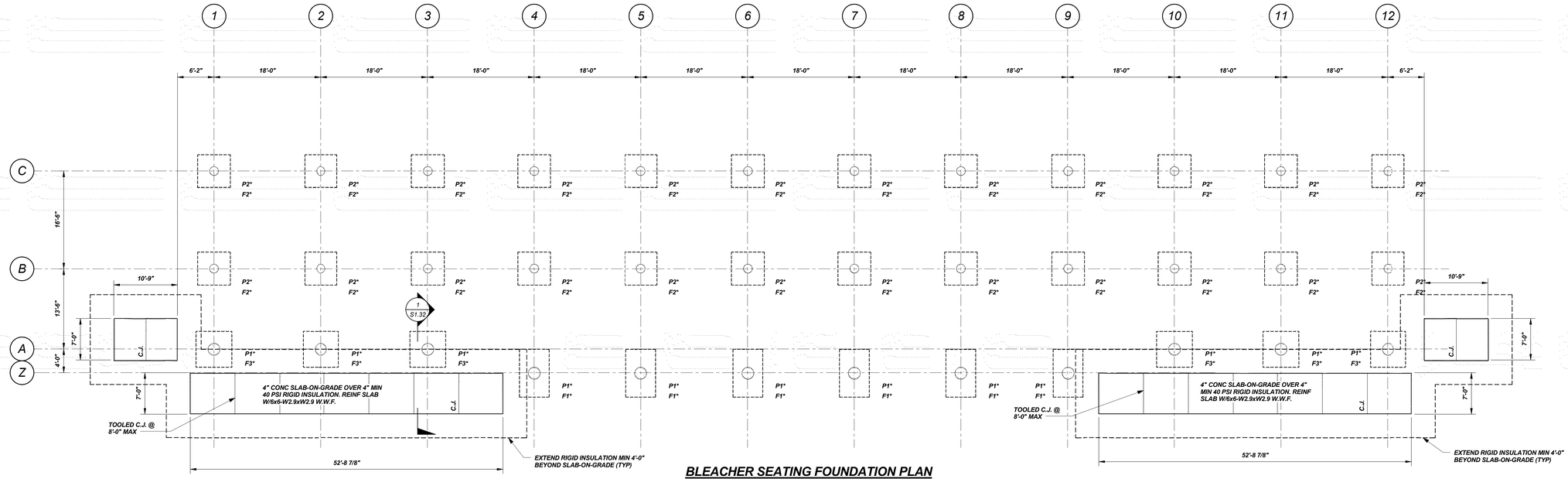


BLEACHER SEATING FOUNDATION PLAN

1/8"=1'-0"

NOTES:

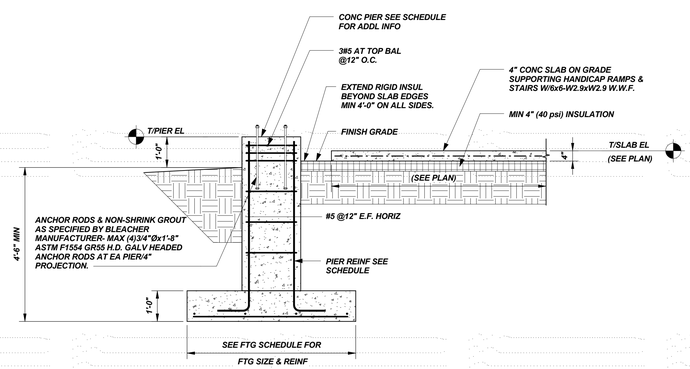
1. BELOW ALL SLABS, PROVIDE MIN 4'-6" DEEP FREE DRAINING STRUCTURAL FILL.
2. REMOVE ALL UNCONTROLLED FILL AND REPLACE WITH COMPACTED GRANULAR BORROW. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SANDS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
3. ALL FOUNDATIONS ARE DESIGNED FOR A MAX CONTACT PRESSURE OF 3000 PSF AT BOTTOM OF FOOTING WITH NO NET UPLIFT. BLEACHER SUPPLIER SHALL INCLUDE CALCUALTIONS WITH THEIR DESIGN THAT PROVE FOUNDATION DESIGN PROVIDED IS SUFFICIENT BASED ON CONTACT BEARING PRESSURE, REINFORCING, AND CONCRETE SHOWN.
4. FOR BASIS OF DESIGN REF ARCH DWG A8.0X SERIES DWGS.

FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING
F1*	8'-0"x5'-0"x1'-0"	#5@12" O.C. E.W.B.
F2*	5'-6"x5'-6"x1'-0"	#5@12" O.C. E.W.B.
F3*	6'-0"x6'-0"x1'-0"	#5@12" O.C. E.W.B.

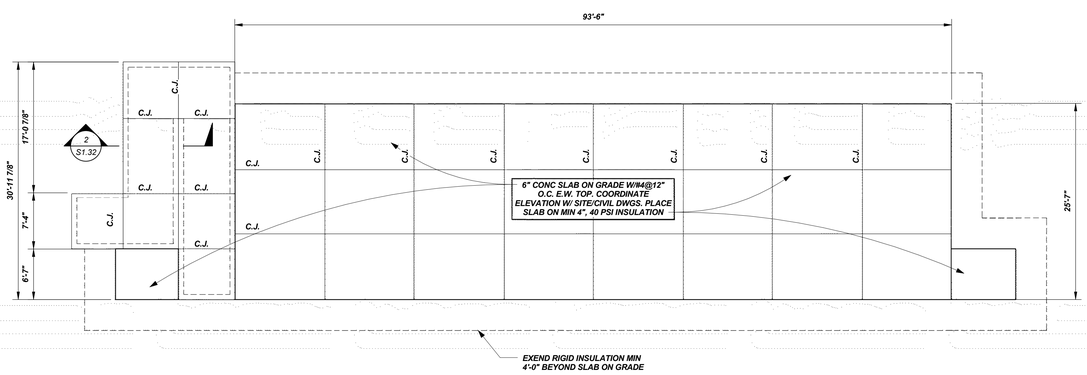
PIER SCHEDULE

PIER MARK	PIER SIZE	REINFORCING
P1*	24"Ø	10#6 BARS
P2*	18"Ø	8#6 BARS



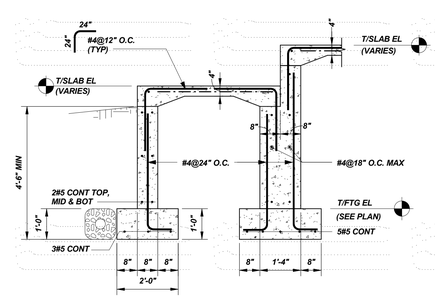
SECTION 1/S1.32

1/2" = 1'-0"



VISITORS SEATING FOUNDATION PLAN

1/8"=1'-0"



SECTION 2/S1.32

1/2" = 1'-0"

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: BLEACHER FOUNDATION PLANS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S1.32

Project Phase: BID DOCUMENTS

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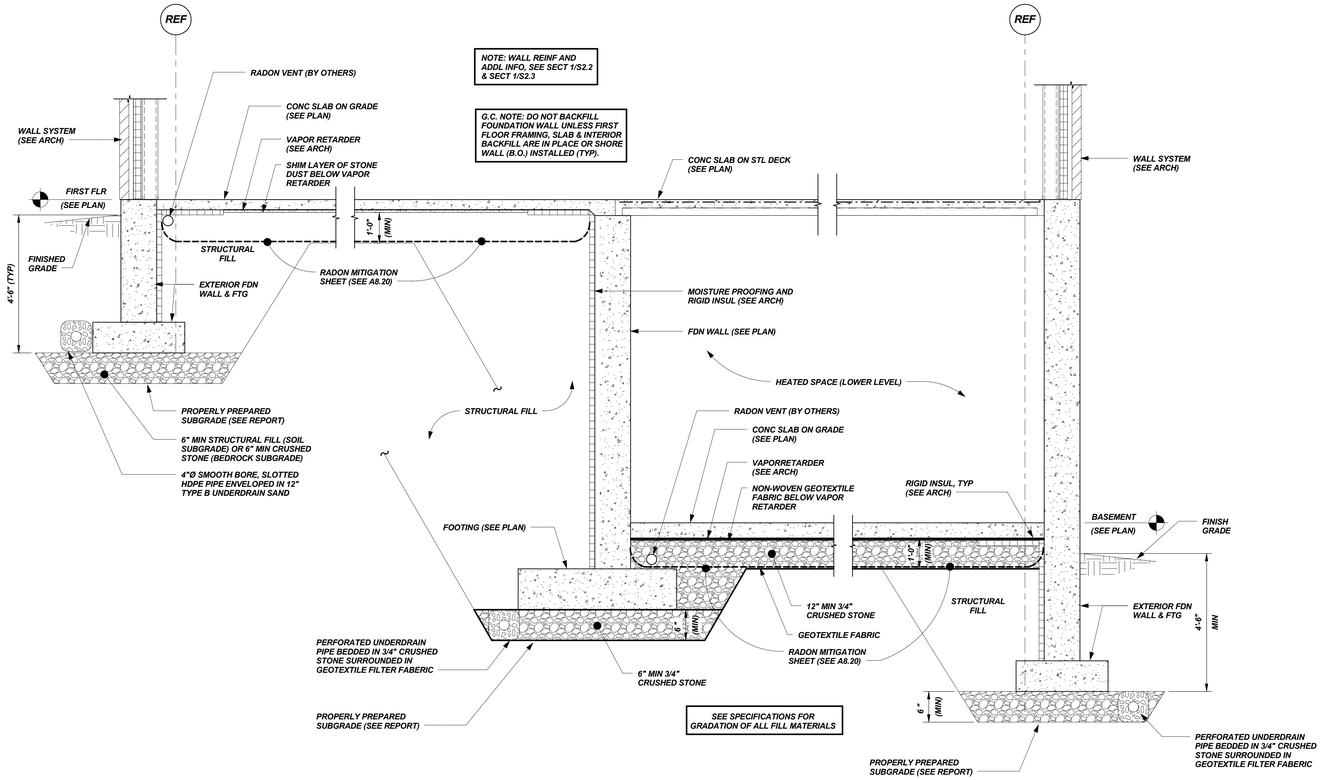
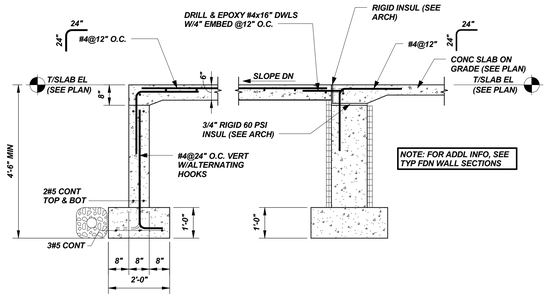


TYP GEOTECH CONDITIONS
N.T.S.



TYP ENTRANCE SLAB DETAIL
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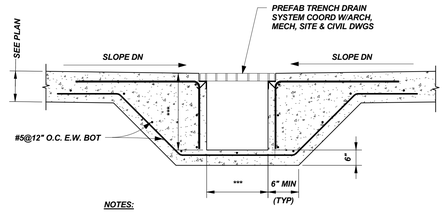
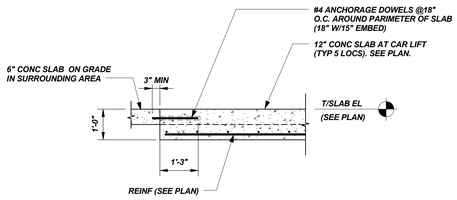


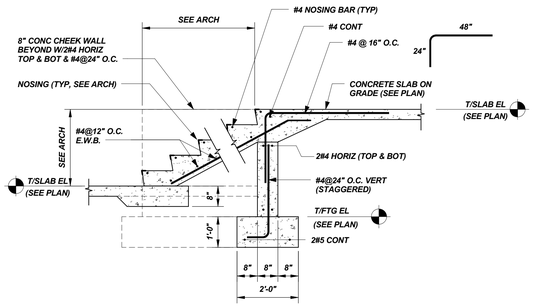
NOTES:

1. *** INDICATES DIM TO BE COORD W/ARCH, CIVIL & MECH DWG. SEE PLAN FOR SLAB REINF & SLOPING REQUIREMENTS.

TYP TRENCH DRAIN DETAIL
N.T.S.



SECTION 1/S1.6
1/2" = 1'-0"



TYP CONCRETE STAIR DETAIL
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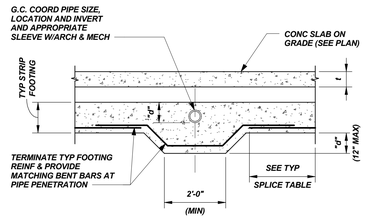

TYP DETAIL AT PIPE PENETRATION AT INTERIOR STRIP FOOTING
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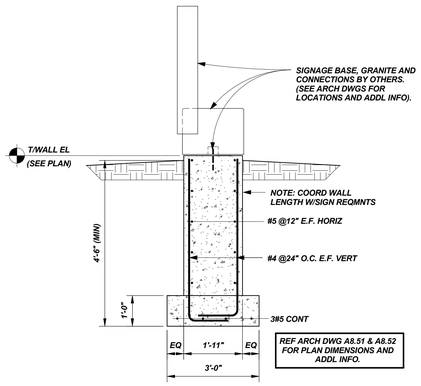

TYP SIGNAGE FOUNDATION DETAIL
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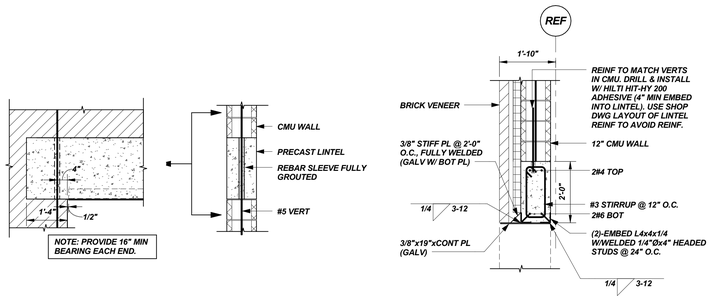

TYP PRECAST LINTEL AT OVERHEAD DOORS
N.T.S. (5,000 PSI CONCRETE)

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
TYPICAL CONCRETE SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S2.0

Project Phase
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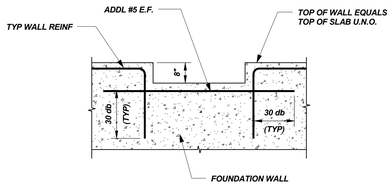

TYP WALL DEPRESSION DETAIL @ DOOR
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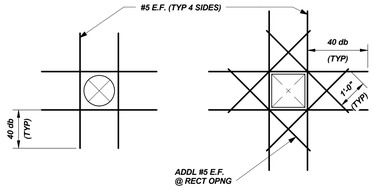

TYP OPENING IN WALL OR SLAB DETAIL
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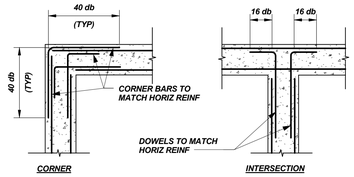

TYP WALL REINF DETAILS
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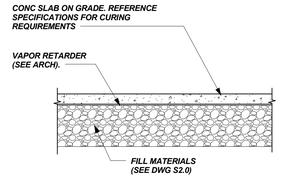
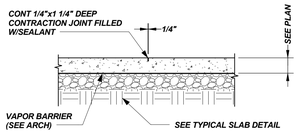


TYP SLAB DETAIL
N.T.S.

NOTE: SEE DWG S2.0 FOR GEOTECH INFO. TYP THIS DWG.

REBAR LAP SPLICE TABLE

BAR SIZE	LAP LENGTH	
	3,500/4,000 PSI	4,000/5,000 PSI
#3	30"	24"
#4	36"	32"
#5	48"	42"
#6	56"	48"
#7	81"	72"
#8	93"	80"



TYP SLAB ON GRADE CONTRACTION JOINT DETAIL
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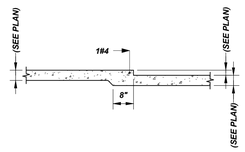

TYP SLAB ON GRADE DEPRESSION DETAIL
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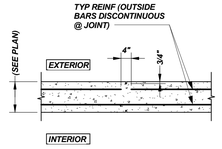
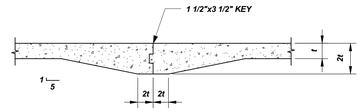
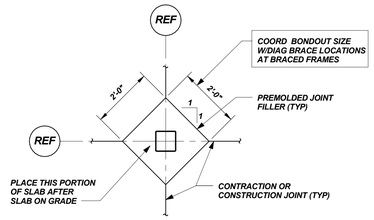


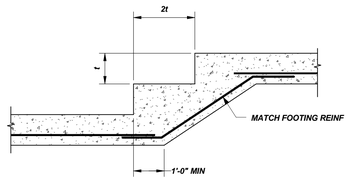
TYP CONTRACTION JOINT IN WALL
N.T.S.



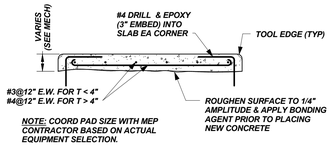
TYP SLAB ON GRADE CONST JOINT DETAIL
N.T.S. t = SLAB THICKNESS



TYP INT COLUMN ISOLATION JOINT DETAIL
N.T.S.

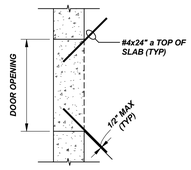


TYP STEP FOOTING DETAIL
N.T.S. t=FOOTING THICKNESS



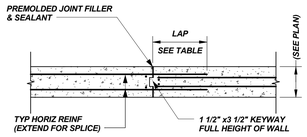
NOTE: COORD PAD SIZE WITH MEP CONTRACTOR BASED ON ACTUAL EQUIPMENT SELECTION.

TYP EQUIPMENT HOUSEKEEPING PAD DETAIL
N.T.S.

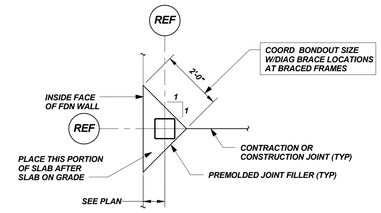


NOTE: ALSO PROVIDE #4x24" (TOP) IN SLAB @ INSIDE RE-ENTRANT CORNERS (SEE PLAN)

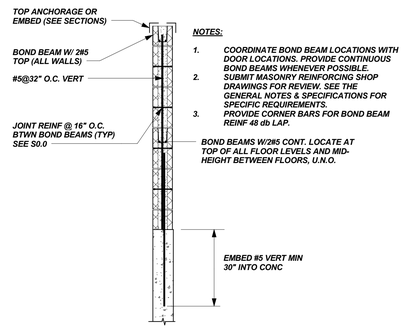
TYP SLAB CORNER DETAIL @ DOOR
N.T.S.



TYP CONSTRUCTION JOINT IN WALL
N.T.S.



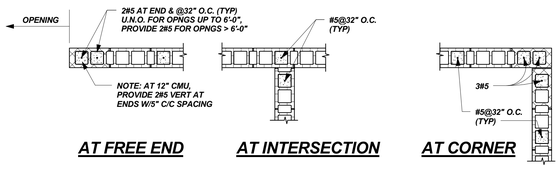
TYP EXT COLUMN ISOLATION JOINT DETAIL
N.T.S.



NOTES:

1. COORDINATE BOND BEAM LOCATIONS WITH DOOR LOCATIONS. PROVIDE CONTINUOUS BOND BEAMS WHENEVER POSSIBLE.
2. SUBMIT MASONRY REINFORCING SHOP DRAWINGS FOR REVIEW. SEE THE GENERAL NOTES & SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
3. PROVIDE CORNER BARS FOR BOND BEAM REINF 48 db LAP.

TYP CMU WALL SECTION (U.N.O.)
N.T.S.



AT FREE END AT INTERSECTION AT CORNER

TYP PLAN DETAILS AT CMU WALLS U.N.O.
N.T.S. (NOTE: SEE PLANS & SECTIONS FOR WALL THICKNESS)

NOTES:

1. PROVIDE LADDER TIE HORIZ REINF @16" O.C. U.N.O.
2. PROVIDE BOND BEAMS W/2#5 CONT AT TOP OF ALL WALLS AND MID-HEIGHT BETWEEN FLOORS.
3. PROVIDE MATCHING CORNER & INTERSECTION DOWELS AT ALL BOND BEAMS.
4. ALL REINFORCED CELLS ARE TO BE FULLY GROUTED. SEE PLANS FOR FULLY GROUTED CMU WALL LOCATIONS.
5. LAP BARS AT SPLICES MIN 48" BAR DIAMETERS.
6. PROVIDE 2#5 MIN. ABOVE & BELOW ALL OPENINGS. EXTEND 24" MIN BEYOND EDGE OF OPENING EA SIDE.
7. ALL CMU WALL REINF SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OR THEIR DESIGNATED REPRESENTATIVE PRIOR TO GROUTING.
8. ALL CMU SHALL BE CONSTRUCTED IN RUNNING BOND.
9. SEE GENERAL NOTES DWG S00 FOR ADDL INFO ON MASONRY CONSTRUCTION.

CMU LINTEL SCHEDULE
(12" BLOCK WALL)

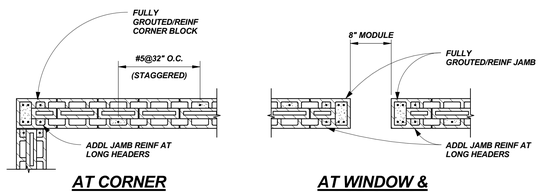
MASONRY OPENING (M.O.)	SIZE	REINF
M.O.< 4'-0"	12"x8"	2#4 CONT
4'-0"≤ M.O.<6'-0"	12"x16"	2#5 CONT
6'-0"≤ M.O.<10'-0"	12"x24"	2#6 CONT
10'-0"≤ M.O.<15'-6"	12"x32"	3#6 CONT

CMU LINTEL SCHEDULE
(8" BLOCK WALL)

MASONRY OPENING (M.O.)	SIZE	REINF
M.O.< 4'-0"	8"x8"	2#4 CONT
4'-0"≤ M.O.<8'-0"	8"x16"	2#5 CONT

NOTES:

1. ENSURE 8" MIN LINTEL BEARING.
2. GROUT CELL SOLID BELOW LINTEL BEARING.
3. * CONFIRM MASONRY OPENING WITH ARCH REQMNTS.

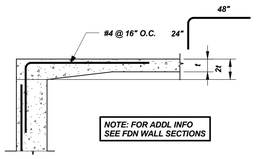


AT CORNER AT WINDOW & DOOR OPNGS

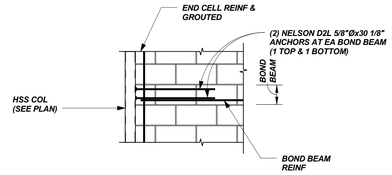
TYP OMNI BLOCK PLAN DETAILS
N.T.S.

NOTES:

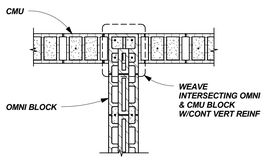
1. PROVIDE TRUSS TIE HORIZ REINF @16" O.C. U.N.O.
2. PROVIDE BOND BEAMS W/2#5 CONT AT TOP OF ALL WALLS AND MID-HEIGHT BETWEEN FLOORS U.N.O.
3. PROVIDE MATCHING CORNER & INTERSECTION DOWELS AT ALL BOND BEAMS.
4. ALL REINFORCED CELLS ARE TO BE FULLY GROUTED.
5. LAP BARS AT SPLICES MIN 48" BAR DIAMETERS.
6. PROVIDE 2#5 MIN. ABOVE & BELOW ALL OPENINGS. EXTEND 24" MIN BEYOND EDGE OF OPENING EA SIDE.
7. ALL OMNI BLOCK WALL REINF SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OR THEIR DESIGNATED REPRESENTATIVE PRIOR TO GROUTING.
8. ALL CMU SHALL BE CONSTRUCTED IN RUNNING BOND.
9. SEE GENERAL NOTES DWG S00 FOR ADDL INFO ON MASONRY CONSTRUCTION.



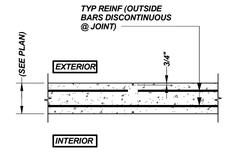
TYPICAL SLAB DETAIL AT DOOR
N.T.S. t = SLAB THICKNESS



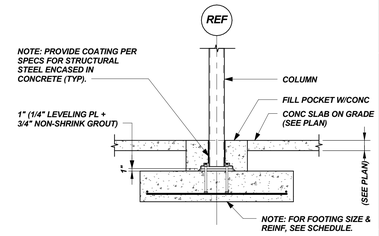
TYP HSS REINF TO CMU INFILL WALLS
N.T.S.



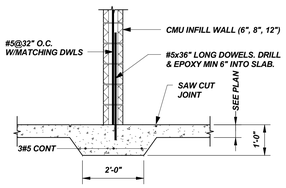
TYP OMNI BLOCK/CMU INTERSECTING WALL JOIN PLAN DETAIL



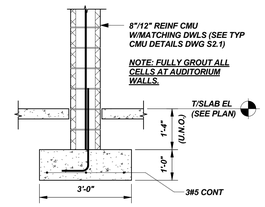
TYP CONTROL JOINT IN WALL
N.T.S.



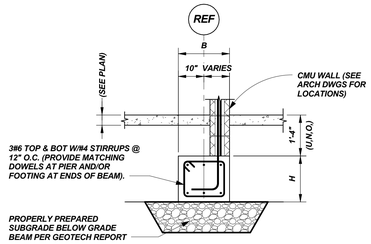
TYP INTERIOR FOOTING DETAIL U.N.O.
N.T.S.



TYP THICKENED SLAB DETAIL AT INTERIOR CMU PARTITION WALLS
N.T.S. (NOTE: SEE ARCH DWGS FOR LOCATIONS)



CONT FTG DETAIL AT INTERIOR CMU WALL U.N.O.
N.T.S.



TYP GRADE BEAM DETAIL
N.T.S.

GRADE BEAM SCHEDULE

MARK	SIZE	
	B (in)	H (in)
GB-1	20"	18"
GB-2	24"	20"
GB-3	28"	20"

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STATE OF MAINE ETHAN A. RHILE NO.10786 PROFESSIONAL STRUCTURAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
TYPICAL CONCRETE SECTIONS AND DETAILS

DRAWN BY: BSE
PROJECT NO: 12-067-00
DATE: 02/11/2016
REVISED:
SCALE: As indicated

S2.1

Project Phase
BID DOCUMENTS

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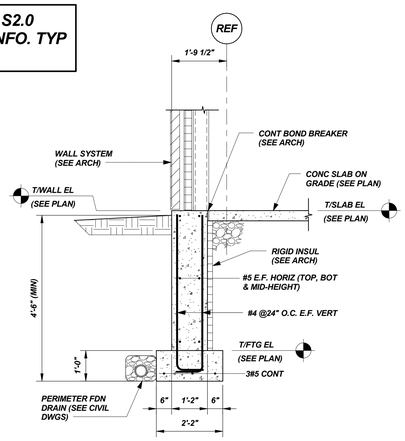
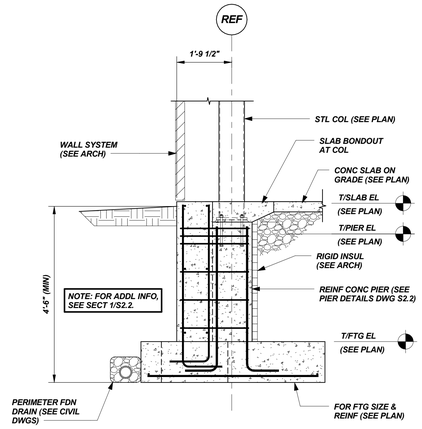
2/9/2016 12:41:43 PM C:\Users\Whitney\Documents\0261_SANFORD TECH FACILITY CENTRAL_v16_Whitney.rvt

NOTE: SEE DWG S2.0 FOR GEOTECH INFO. TYP THIS DWG.



SECTION 1 (S1.1)
1/2" = 1'-0"



SECTION 2 (S1.1)
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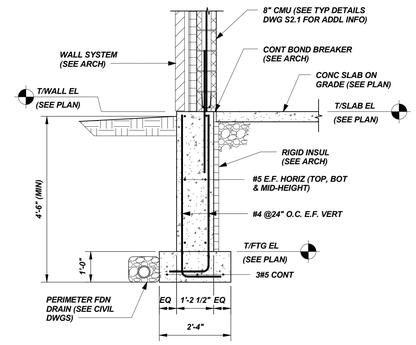

SECTION 3 (S1.7)
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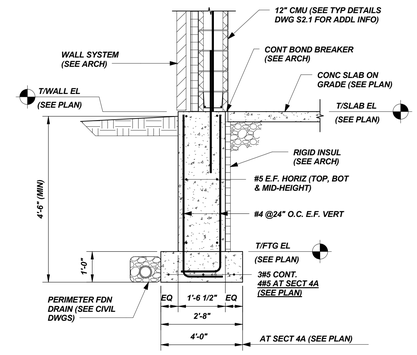

SECTION 4 (S1.1)
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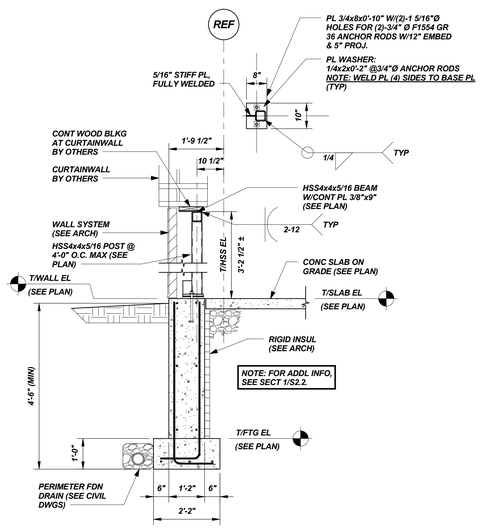

SECTION 5 (S1.4)
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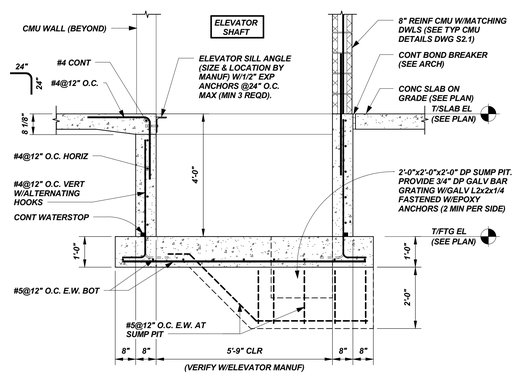

SECTION 6 (S1.1)
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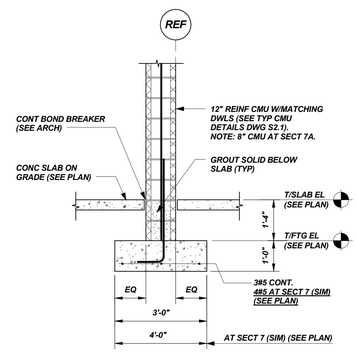
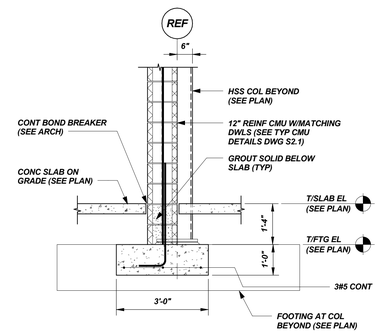


SECTION 7 (S1.0) 7A (S1.3)
1/2" = 1'-0"



SECTION 8 (S1.3)
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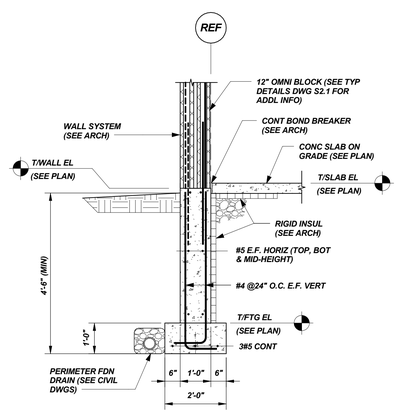

SECTION 9 (S1.3)
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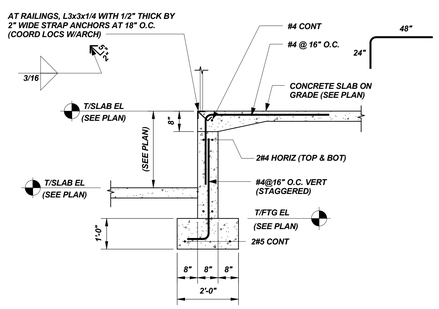

SECTION 10 (S1.3)
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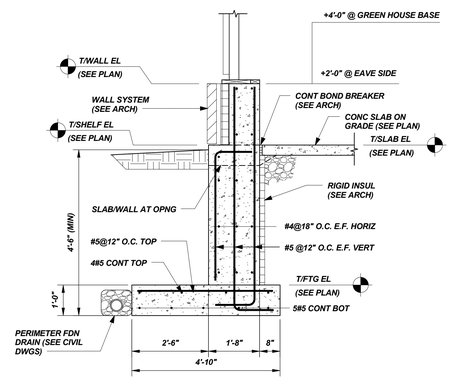

SECTION 11 (S1.7)
1/2" = 1'-0"

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: FOUNDATION SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S2.2

Project Phase: BID DOCUMENTS

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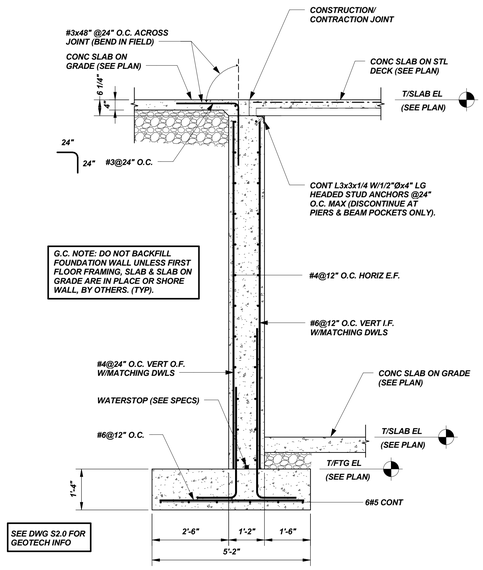
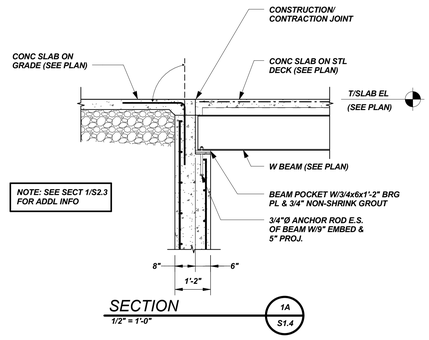
2/9/2016 12:41:48 PM C:\Users\Whitney\Documents\3291_SANFORD TECH FACILITY CENTRAL_r16_Whitney.rvt

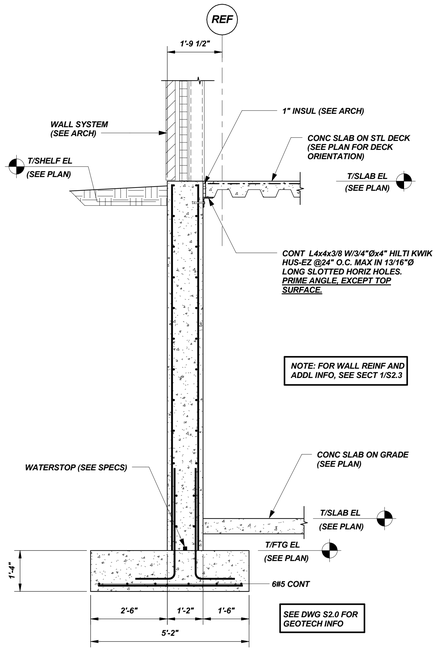
NOTE: SEE DWG S2.0 FOR GEOTECH INFO. TYP THIS DWG.



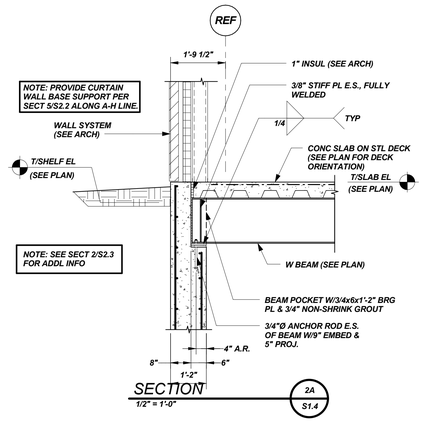
SECTION 1 / S1.0
1/2" = 1'-0"



SECTION 1A / S1.4
1/2" = 1'-0"



SECTION 2 / S1.0
1/2" = 1'-0"



SECTION 2A / S1.4
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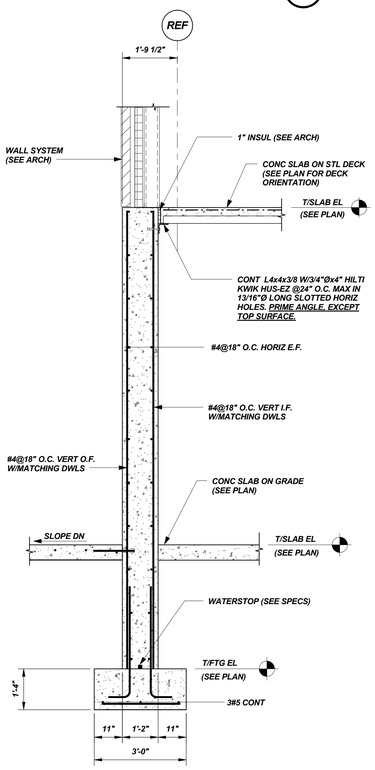

SECTION 3 / S1.0
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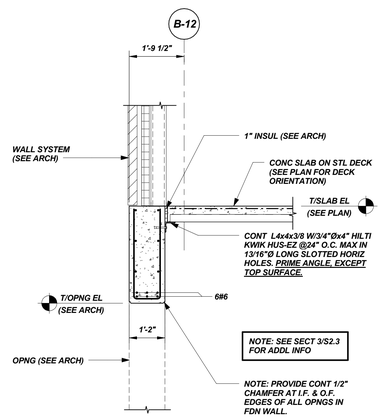

SECTION 3A / S1.4
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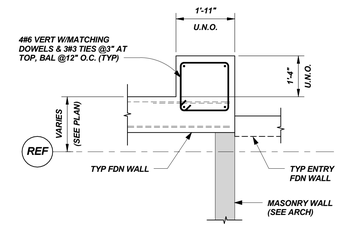
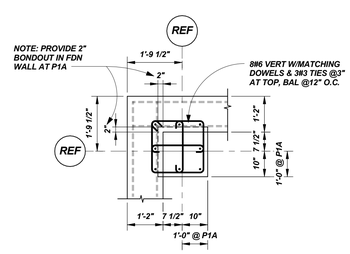
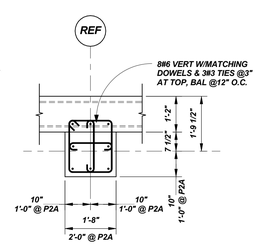


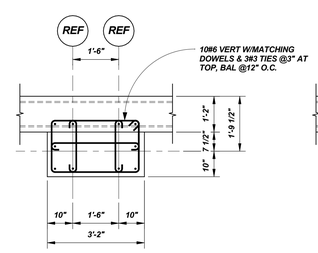
TYPICAL FDN WALL/BASE OF BROW INTERFACE DETAIL AT ENTRIES, STAIR/CURTAIN WALL, ETC.
1/2"=1'-0" (SEE PLANS & ARCH DWGS FOR LOCATIONS & ADDL INFO)



P1
P1A



P2
P2A



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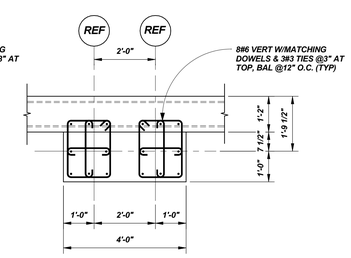
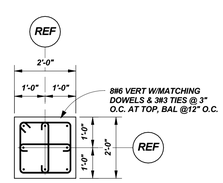


(2)P2A

TYPICAL PIER DETAILS
1/2"=1'-0"



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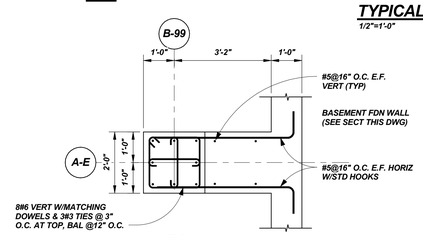

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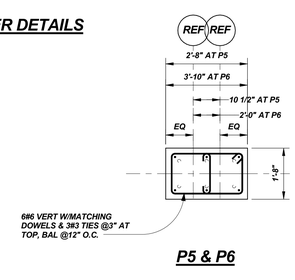

P5 & P6

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
FOUNDATION SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S2.3

Project Phase
BID DOCUMENTS

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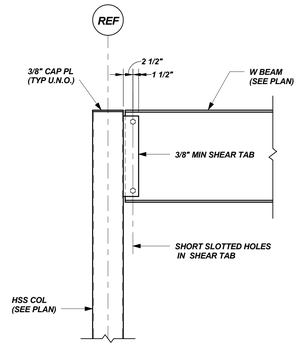


TYP BEAM TO HSS COL CONN U.N.O.

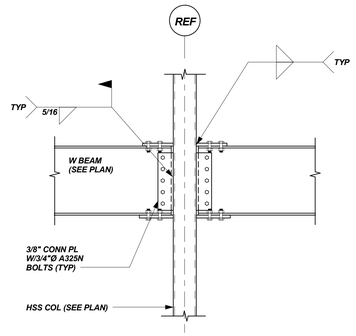
N.T.S.

SIMPLE SHEAR BEAM CONNECTION SCHEDULE

BEAM SIZE	DESIGN REACTION	MINIMUM NO BOLTS 1 SIDED CONNECTION	MINIMUM NO BOLTS 2 SIDED CONNECTION
W8/W10	15 K	2	2
W12	20 K	3	2
W14	25 K	3	3
W16	35 K	4	3
W18	35 K	4	3
W21	45 K	5	4
W24	60 K	6	4
W27	70 K	6	5
W30	110 K	7	6
W33	110 K	7	6
W36	125 K	8	7
W40	125 K	8	7

SIMPLE SHEAR CONNECTIONS NOTES:

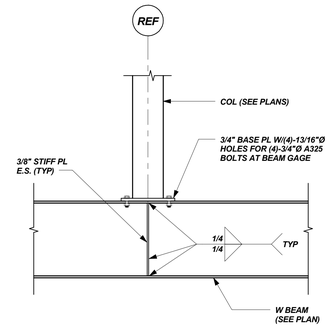
1. SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE AISC "MANUAL OF STEEL CONSTRUCTION-ALLOWABLE STRESS DESIGN, 13TH EDITION" USING THE ABOVE REFERENCED REACTIONS AND CRITERIA. REACTIONS INDICATED ARE UNFACTORED (SERVICE LEVEL LOADS). MORE BOLTS THAN REFERENCED IN THE "MINIMUM" SECTIONS ABOVE MAY BE REQUIRED FOR LOAD REQUIREMENTS.
2. CONNECTIONS ARE SUBJECT TO REVIEW ON THE STEEL SHOP DRAWINGS.
3. ALL BOLTS SHALL BE A325 OR A490 FOR SIMPLE SHEAR CONNECTIONS, MIN 3/4"Ø. MINIMUM WELD SIZE SHALL BE 5/16". MINIMUM MATERIAL SIZE FOR PLATES OR ANGLES SHALL BE 3/8".
4. ONE SIDED CONNECTIONS INCLUDE SINGLE PLATES AND SINGLE ANGLE CONNECTIONS.
5. TWO SIDED CONNECTIONS INCLUDE DOUBLE ANGLE AND END PLATE CONNECTIONS. NOTE: PROVIDE OSHA SAFETY PROVISIONS AT SHARED BOLTED CONNECTIONS.
6. REACTIONS SHOWN IN PLAN SUPERCEDE CONNECTION SCHEDULE.



TYP HSS COL BOLTED MOMENT CONN DETAIL

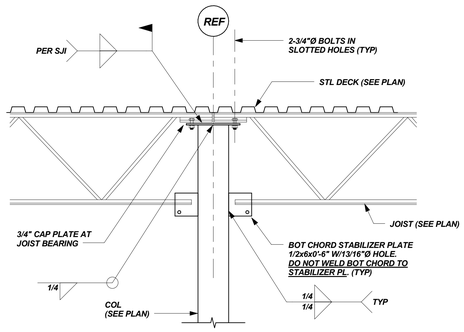
N.T.S.

NOTE: REF DWGS S4.X FOR DESIGN LOADS



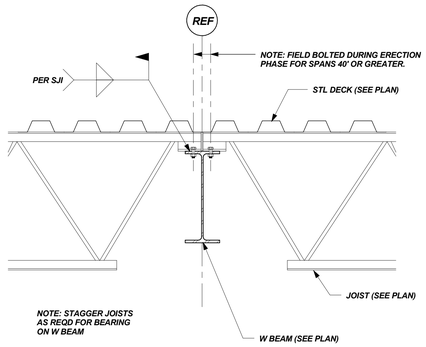
TYP COL TRANSFER DETAIL

N.T.S.



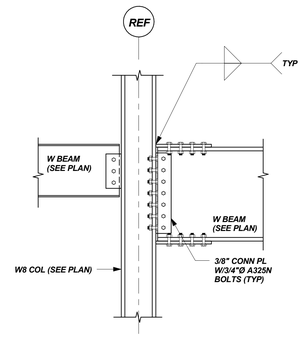
TYP SLEEL JOIST TO TOP OF COL DETAIL U.N.O.

N.T.S.



TYP STEEL JOIST TO W BEAM DETAIL U.N.O.

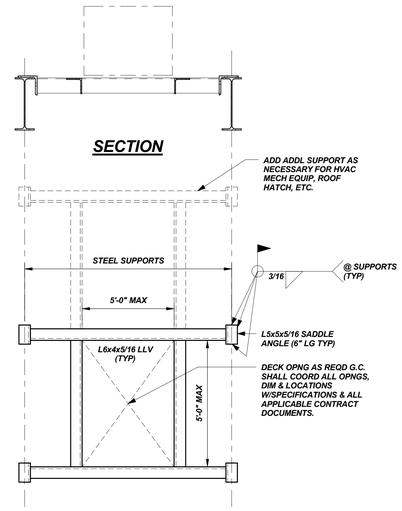
N.T.S.



TYP W8 COL BOLTED MOMENT CONN DETAIL

N.T.S.

NOTE: REF DWGS S4.X FOR DESIGN LOADS

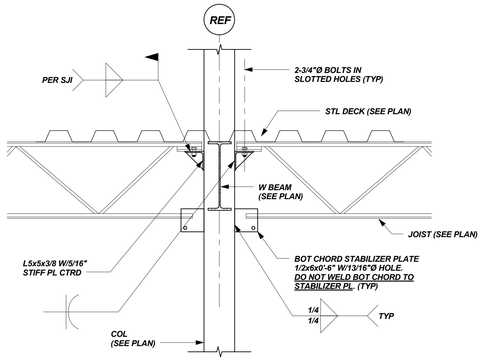


PLAN OF TYP OPENING IN ROOF & FLOOR DECK

N.T.S.

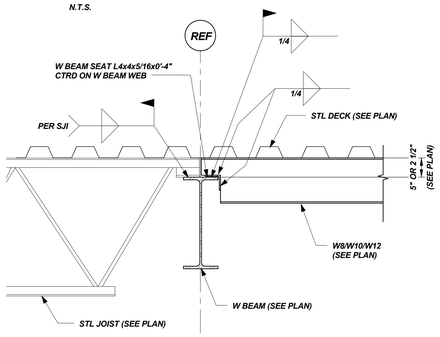
NOTES:

1. DETAIL TYPICAL AT ROOF & FLOOR LEVELS TO INCLUDE DRAINS, EXHAUST FANS AND OTHER MECH AND HVAC EQUIP IF OPENING IS LARGER THAN 10"Ø OR CUTS MORE THAN (2) DECK RIBS. FOR OPENINGS LESS THAT 12"Ø, OR GREATER THAN 3"Ø, REINF OPNG W/16GA MIN PL. MIN PL LENGTH SHALL BE "D"+4". EXTEND AS REQD FOR 2" MIN BRG ON DECK RIB.
2. AT GROUPS OF CORE DRILLED HOLES, PROVIDE ANGLE FRAME AROUND GROUP UNLESS INDIVIDUAL HOLES ARE SEPARATED BY A MINIMUM OF 12" EDGE TO EDGE.



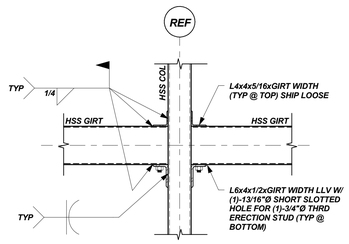
TYP STEEL JOIST TO COL DETAIL U.N.O.

N.T.S.



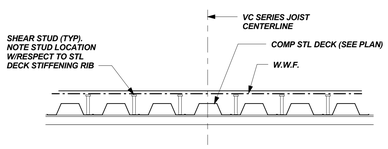
TYP W8/W10/W12 BEAM AT JOIST HEIGHT CONNECTION DETAIL

N.T.S.



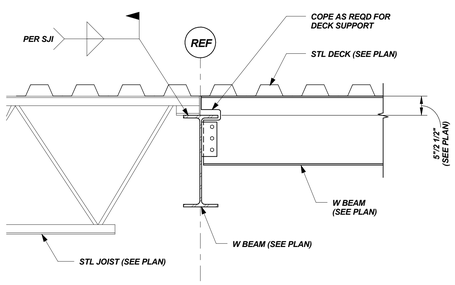
TYP HSS GIRT TO HSS COL DETAIL U.N.O.

N.T.S.



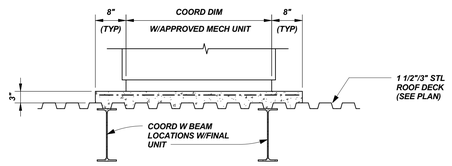
TYP LOCATION OF WELDED STUDS IN METAL DECK FOR VC SERIES JOISTS

N.T.S.



TYP W BEAM AT JOIST HEIGHT CONNECTION DETAIL U.N.O.

N.T.S.

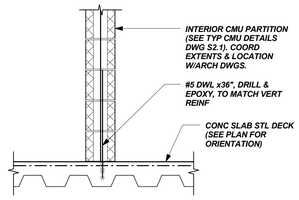


NOTES:

1. SEE PLANS FOR APPROX SLAB LOCATIONS.
2. G.C. COORD FINAL SIZE & LOCATIONS,INCLUDING SLAB OPNGS, W/APPROVED MECH EQUIPMENT SHOP DWGS.
3. SEE ARCH DWGS FOR ROOFING & INSUL REQMNTS.

TYP CONC SLAB DETAIL AT ROOF TOP MECH UNIT

N.T.S.



TYP INTERIOR CMU PARTITION DETAIL AT FRAMED FLOOR

N.T.S.

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SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: TYPICAL FRAMING SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S3.0

Project Phase: BID DOCUMENTS

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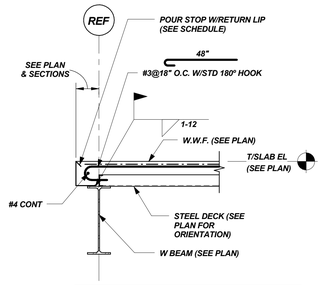
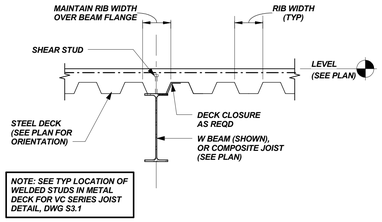


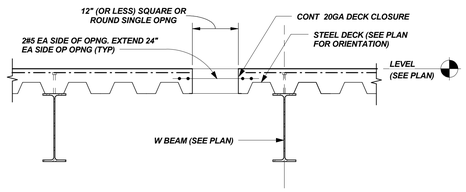
POUR STOP SCHEDULE	
SLAB OVERHANG BEYOND EDGE OF BEAM FLANGE	POUR STOP GAGE
<3"	16 GA
3"-6"	14 GA
7"-9"	12 GA
>9"	SEE SECTIONS & DETAILS. 1/4" BENT PL U.N.O.

TYP EDGE OF SLAB DETAIL, U.N.O.
N.T.S.

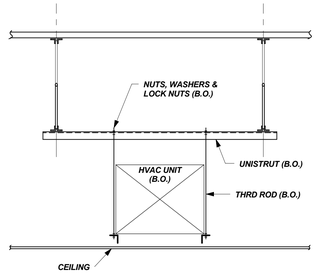


NOTE: SEE TYP LOCATION OF WELDED STUDS IN METAL DECK FOR VC SERIES JOIST DETAIL, DWG S3.1

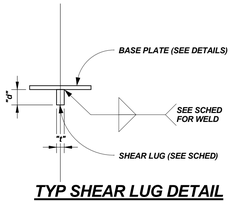
TYP COMPOSITE DECK DETAIL
N.T.S.



TYP SMALL FLOOR SLAB OPENING DETAIL
N.T.S.



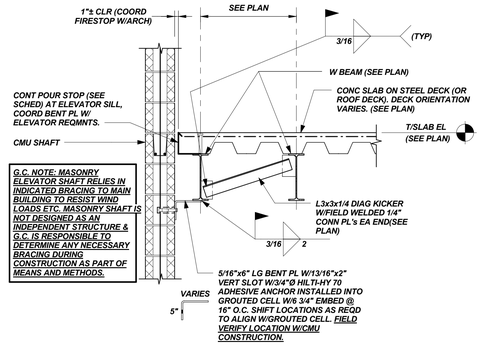
TYP SUPPORT DETAIL @ HANGING EQUIP
N.T.S.



TYP SHEAR LUG DETAIL

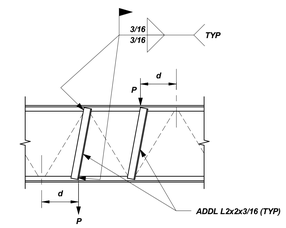
PLATE WASHER SCHEDULE		
ANCHOR ROD DIA	MIN WASHER DIM, in.	MIN WASHER THICKNESS, in.
3/4"	2"	1/4"
1"	3"	3/8"
1 1/4"	3"	1/2"

SHEAR LUG SCHEDULE		
MARK	SHEAR LUG SIZE t x d x w	WELD/SIZE (EA SIDE)
S.L.-1	1 3/4x5 1/2x1'-0"	CJP
S.L.-2	2 1/2x7 1/2x1'-3"	CJP



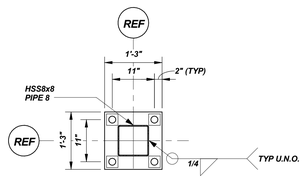
G.C. NOTE: MASONRY ELEVATOR SHAFT RELIES IN INDICATED BRACING TO MAIN BUILDING TO RESIST WIND LOADS ETC. MASONRY SHAFT IS NOT DESIGNED AS AN INDEPENDENT STRUCTURE & G.C. IS RESPONSIBLE TO DETERMINE ANY NECESSARY BRACING DURING CONSTRUCTION AS PART OF MEANS AND METHODS.

TYP ELEVATOR & STAIR SHAFT BRACING DETAIL (AT FIRST FLOOR AREA B) (AT SECOND FLOOR & ROOF) U.N.O.
3/4"=1'-0"



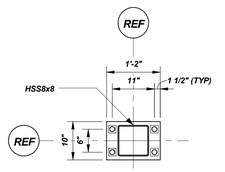
TYP JOIST REINF DETAIL
N.T.S.

1. FOR CONCENTRATED LOADS LOCATED A DISTANCE "d", 4" OR MORE FROM PANEL POINT, PROVIDE ADDITIONAL WEB MEMBERS AS SHOWN.
2. P = 150# MAX LOAD.



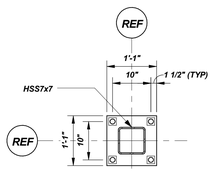
PL 1x15x1'-3" W/(4)-1 13/16"Ø HOLES FOR (4)-1" Ø F1554 GR 36 ANCHOR RODS W/12" EMBED & 5" PROJ.

BP-A



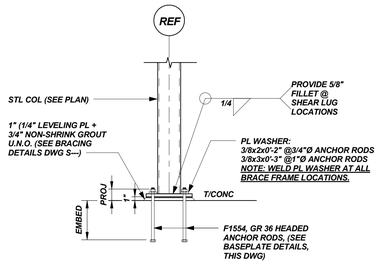
PL 1x10x1'-2" W/(4)-1 5/16"Ø HOLES FOR (4)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

BP-B

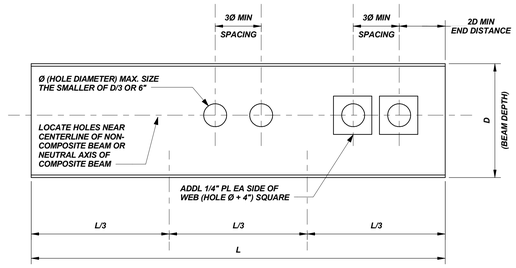


PL 1x13x1'-1" W/(4)-1 5/16"Ø HOLES FOR (4)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

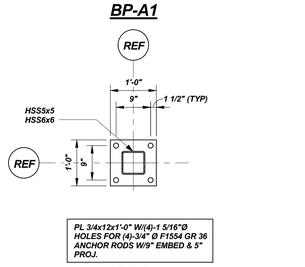
BP-C



TYP COL BASE DETAIL U.N.O.
N.T.S.

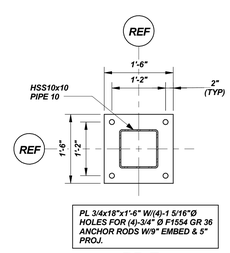


TYP W BEAM WEB PENETRATION DETAIL U.N.O.
N.T.S.



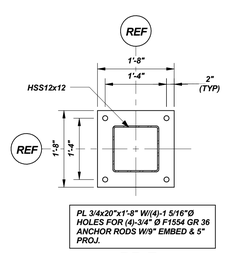
PL 3/4x12x1'-0" W/(4)-1 5/16"Ø HOLES FOR (4)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

BP-D



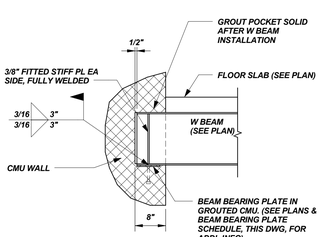
PL 3/4x18"x1'-6" W/(4)-1 5/16"Ø HOLES FOR (4)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

BP-E

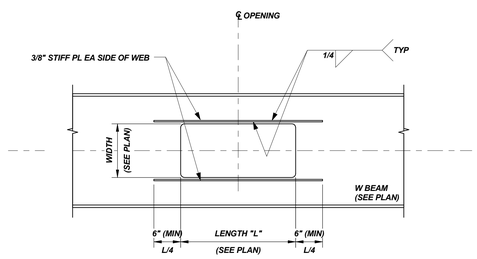


PL 3/4x20"x1'-8" W/(4)-1 5/16"Ø HOLES FOR (4)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

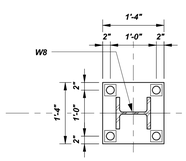
BP-F



TYP W BEAM BEARING ON CMU DETAIL
N.T.S. (NOTE: SIM AT OMNI BLOCK)

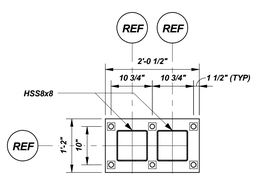


W BEAM RECTANGULAR WEB PENETRATION DETAIL
N.T.S.



PL 1 3/4x16x1'-4" W/(4)-1 1/16"Ø HOLES FOR (4)-1 1/4" Ø F1554 GR 36 ANCHOR RODS W/18" EMBED & 6" PROJ.

BP-G



PL 1x14x2'-0 1/2" W/(6)-1 5/16"Ø HOLES FOR (6)-3/4" Ø F1554 GR 36 ANCHOR RODS W/9" EMBED & 5" PROJ.

BP-H

BASE PLATE DETAILS
N.T.S.

BEARING PLATE SCHEDULE	
BEAM SIZE	SIZE
W8/10/12	1/2x6x0'-10"
W14	1/2x6x1'-0"
W16	5/8x9x1'-2"
W18	5/8x9x1'-2"
W21	3/4x9x1'-6"
W24	1x9x2'-2"
W27	1x9x2'-2"

NOTE: ALL BEARING PLATES TO HAVE (2)1/2"Øx4" LONG HEADED STUDS INTO GROUTED CELLS/BOND BEAM.

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: TYPICAL FRAMING SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S3.1

Project Phase: BID DOCUMENTS

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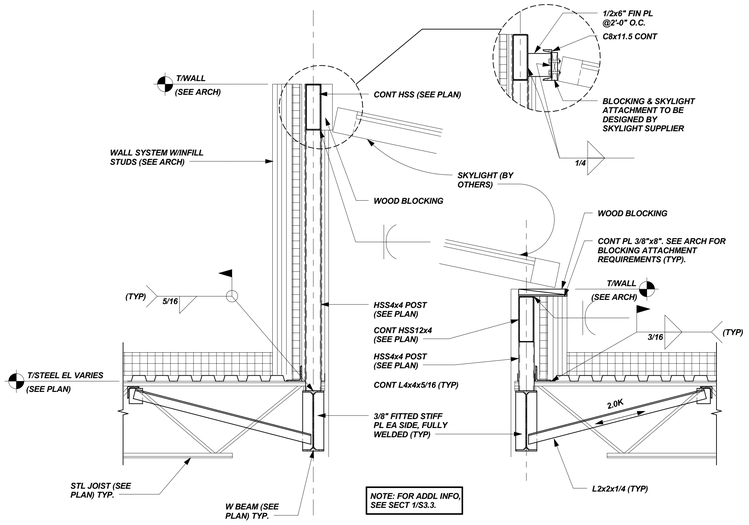
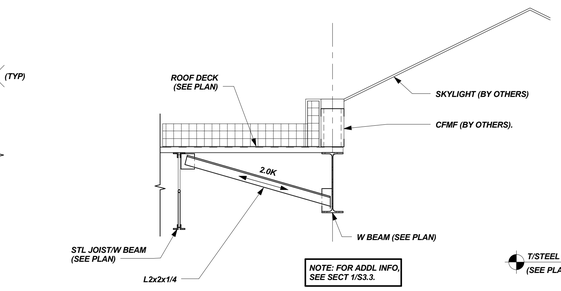


SECTION 1 / S1.24
3/4" = 1'-0"



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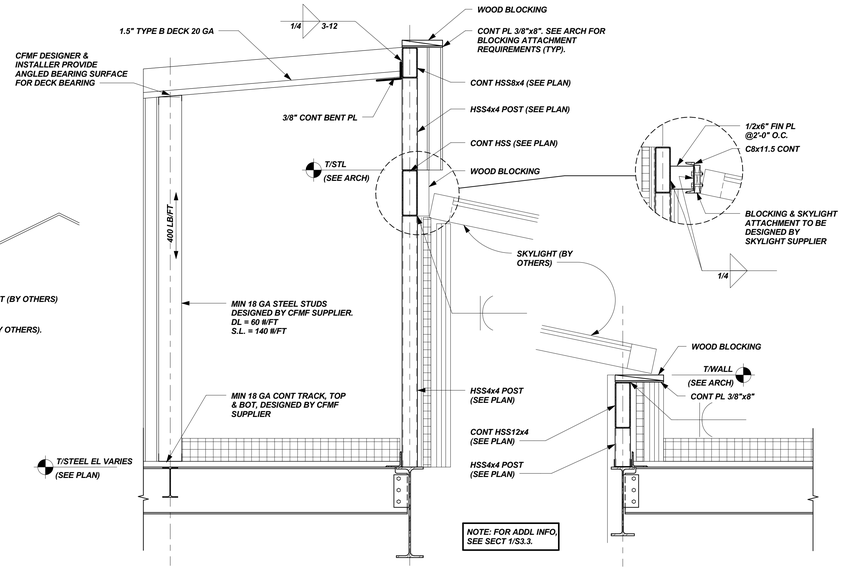

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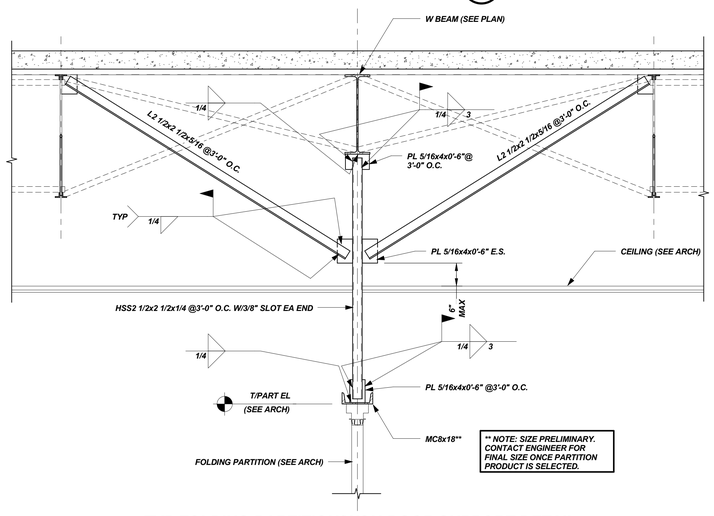
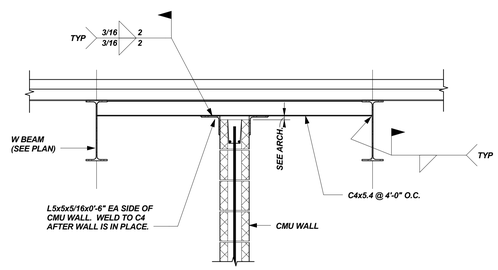


TYP FOLDING PARTITION/WON-DOOR SUPPORT DETAIL
N.T.S.



PARTITION PARALLEL TO FLOOR FRAMING
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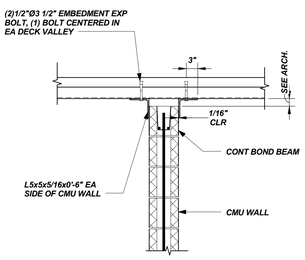
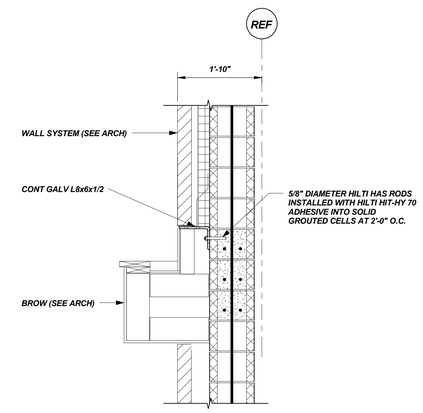
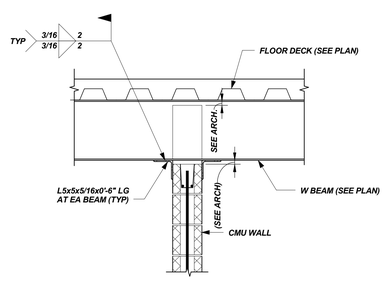


PARTITION SUPPORT-PERPENDICULAR TO DECK
N.T.S.



TYP DETAIL OF BROW AT MASONRY FACE W/CMU BACKUP
N.T.S. (SEE SECT J9/A3.36 FOR ADDL INFO)



PARTITION PERPENDICULAR TO FLOOR FRAMING
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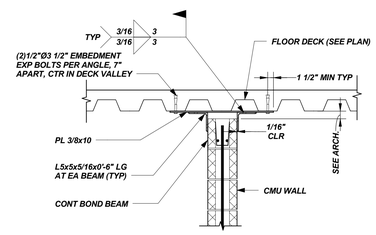
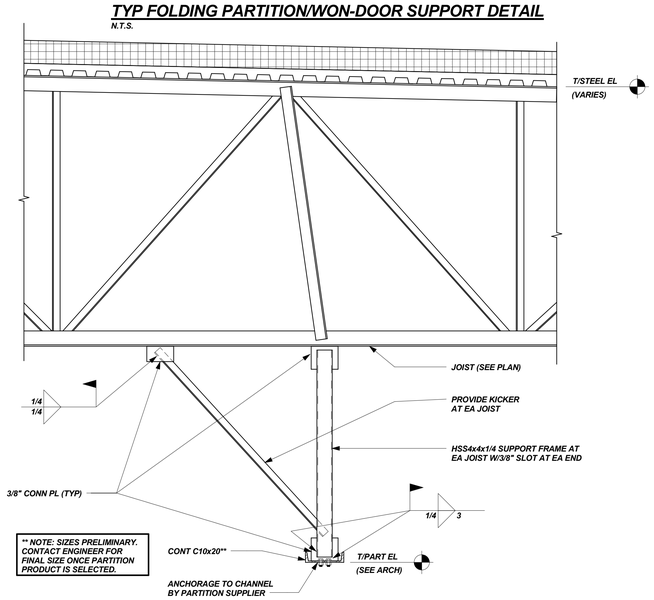


PARTITION SUPPORT-PARALLEL OR SKEWED TO DECK
N.T.S.

TYP LATERAL RESTRAINTS AT TOP OF MASONRY PARTITION WALLS
N.T.S.

NOTES:
1. TOP RESTRAINT ANGLES FOR MASONRY WALLS REQD @ 4'-0" O.C. MAX.
2. REFER TO ARCH DWGS FOR EXTENTS OF NON-STRUCTURAL PARTITION WALLS.



TYP FOLDING PARTITION SUPPORT DETAIL AT GYMNASIUM, AREA F1
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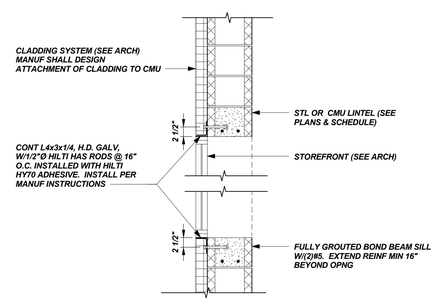

TYP DETAIL AT STOREFRONT/CMU CONDITIONS
N.T.S. (REF A3.33 AND ARCH ELEVATIONS & SECTIONS FOR ADDL INFO)

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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CONTENT: TYP FRAMING SECTIONS & DETAILS

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DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S3.2

Project Phase
BID DOCUMENTS

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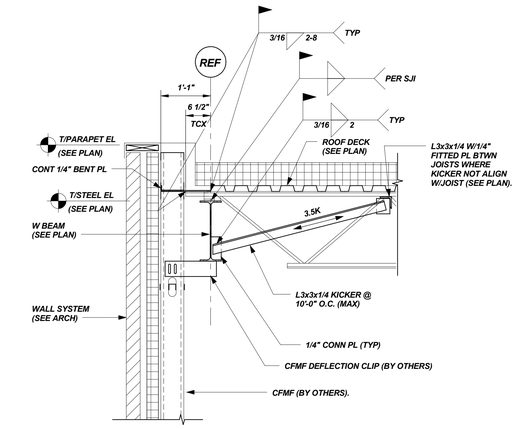
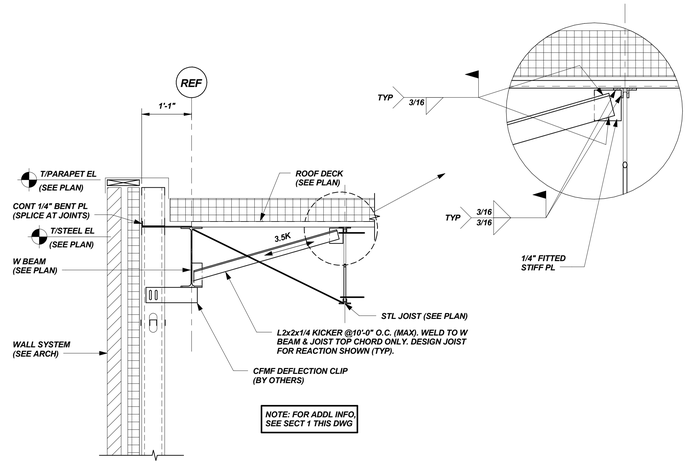
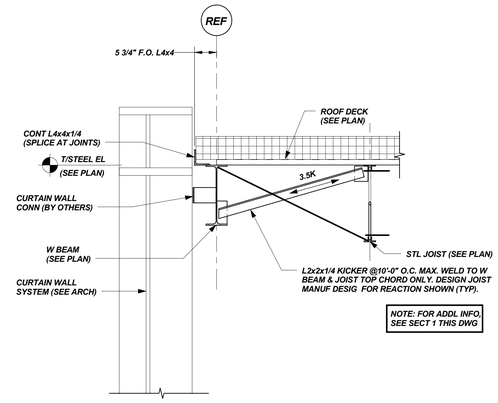


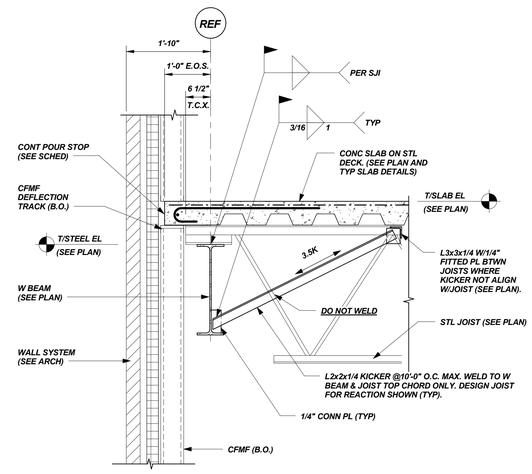
SECTION 1
3/4" = 1'-0"
SEE PLANS



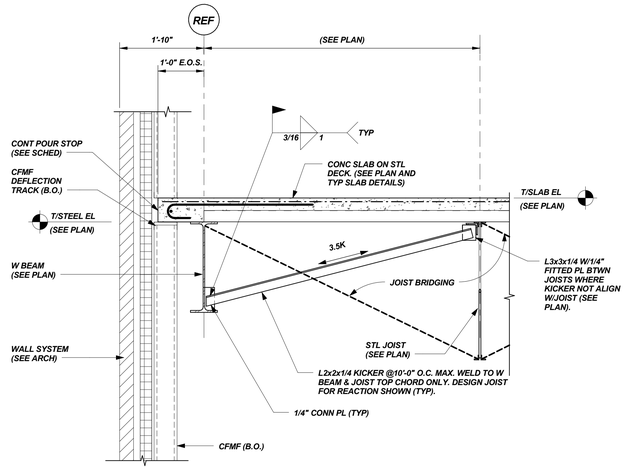
SECTION 2
3/4" = 1'-0"
SEE PLANS



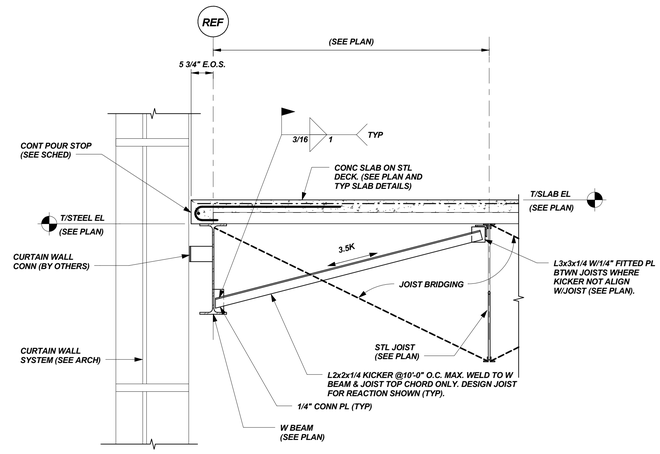
SECTION 3
3/4" = 1'-0"
SEE PLANS



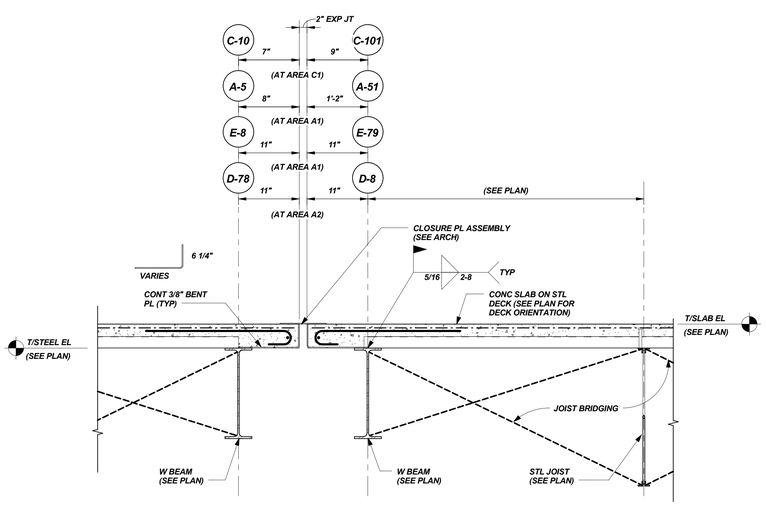
SECTION 4
3/4" = 1'-0"
SEE PLANS



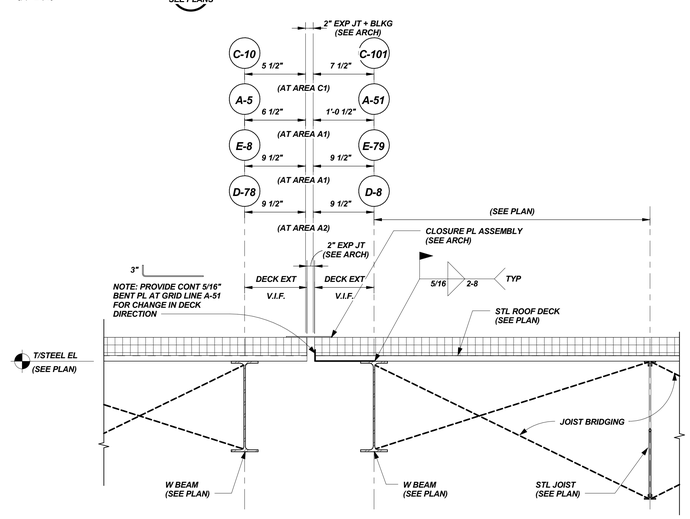
SECTION 5
3/4" = 1'-0"
SEE PLANS



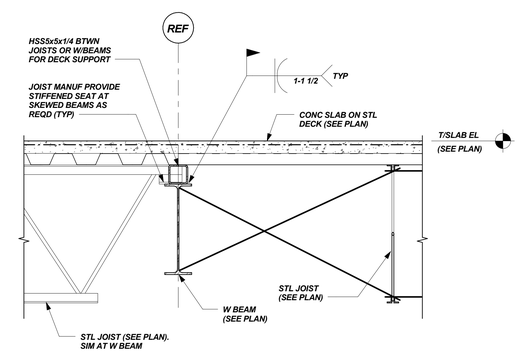
SECTION 6
3/4" = 1'-0"
SEE PLANS



SECTION 7
3/4" = 1'-0"
S1.11



SECTION 8
3/4" = 1'-0"
S1.21



SECTION 9
3/4" = 1'-0"
S1.11

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ETHAN A. RHILE
NO.10786
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SANFORD SCHOOL
DEPARTMENT AND STATE OF
MAINE DEPARTMENT OF
EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
FRAMING SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S3.3

Project Phase
BID DOCUMENTS

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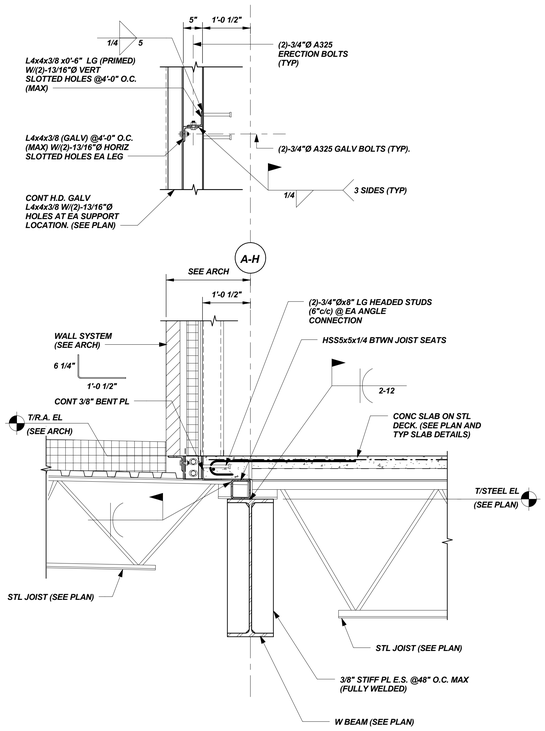

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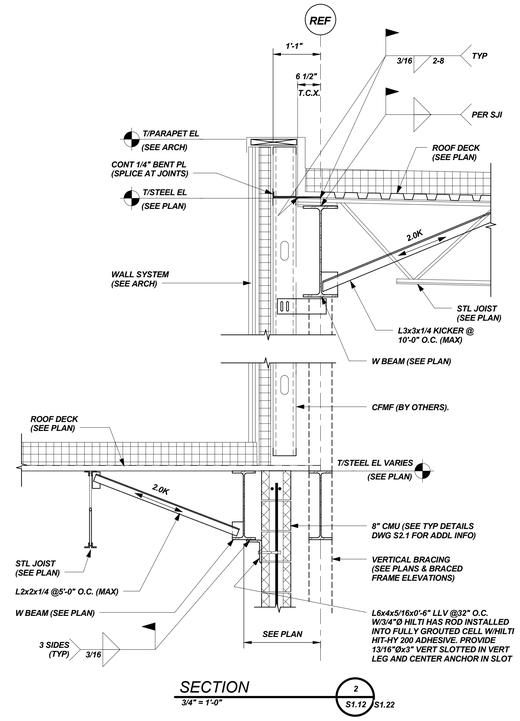

SECTION 2 S1.12 S1.22
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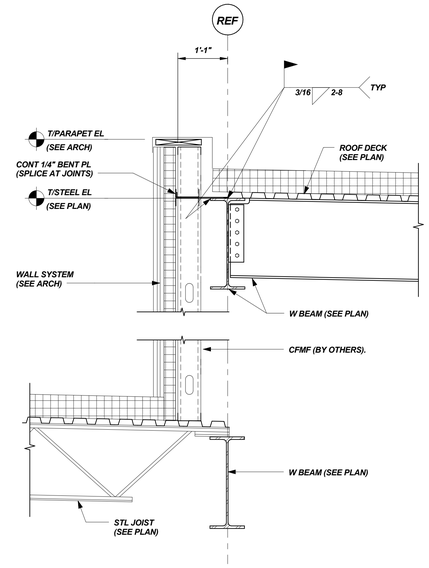
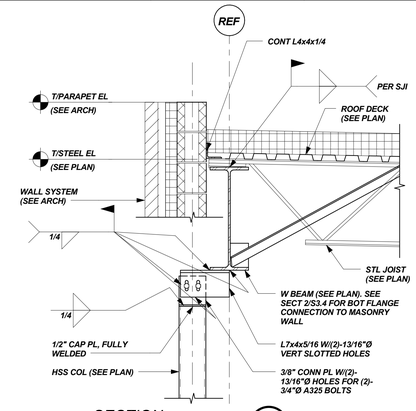


SECTION 3 S1.24
3/4" = 1'-0"



SECTION 4 S1.16
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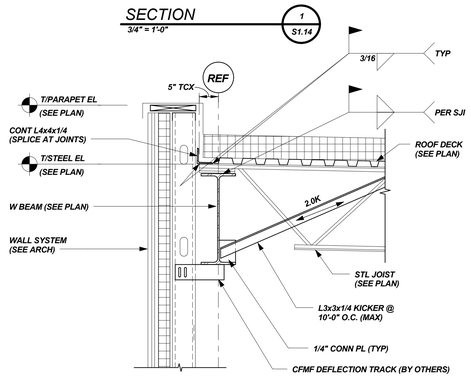

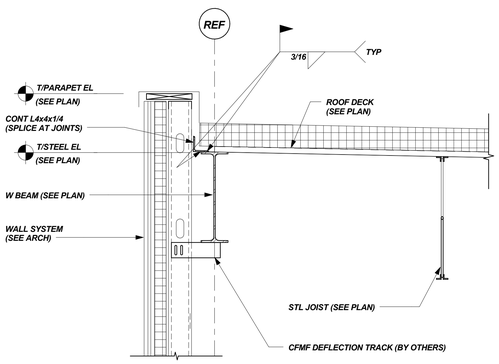

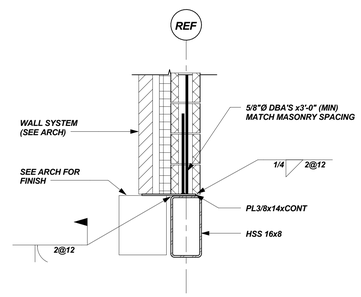

SECTION 4B S1.16
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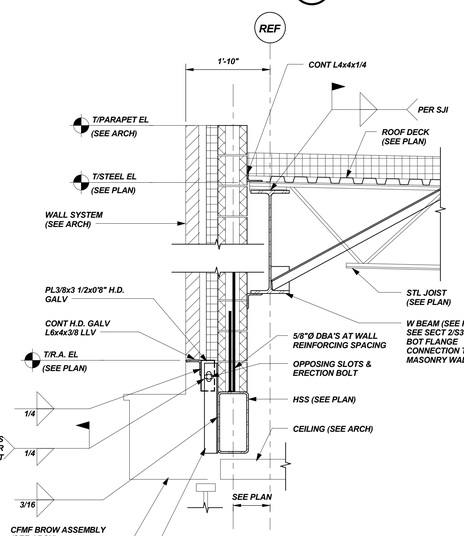

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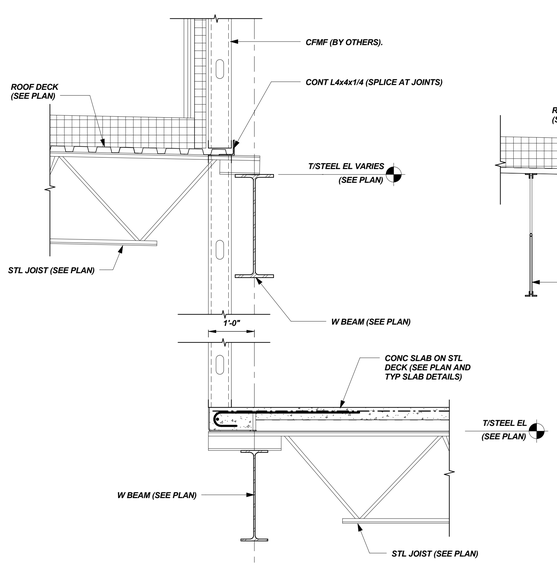

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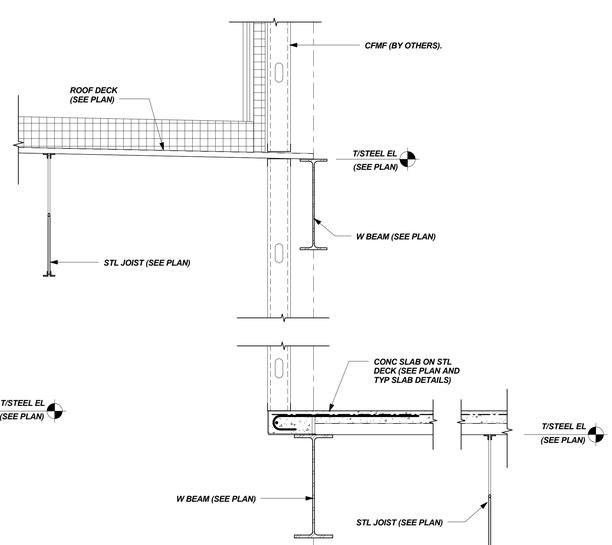

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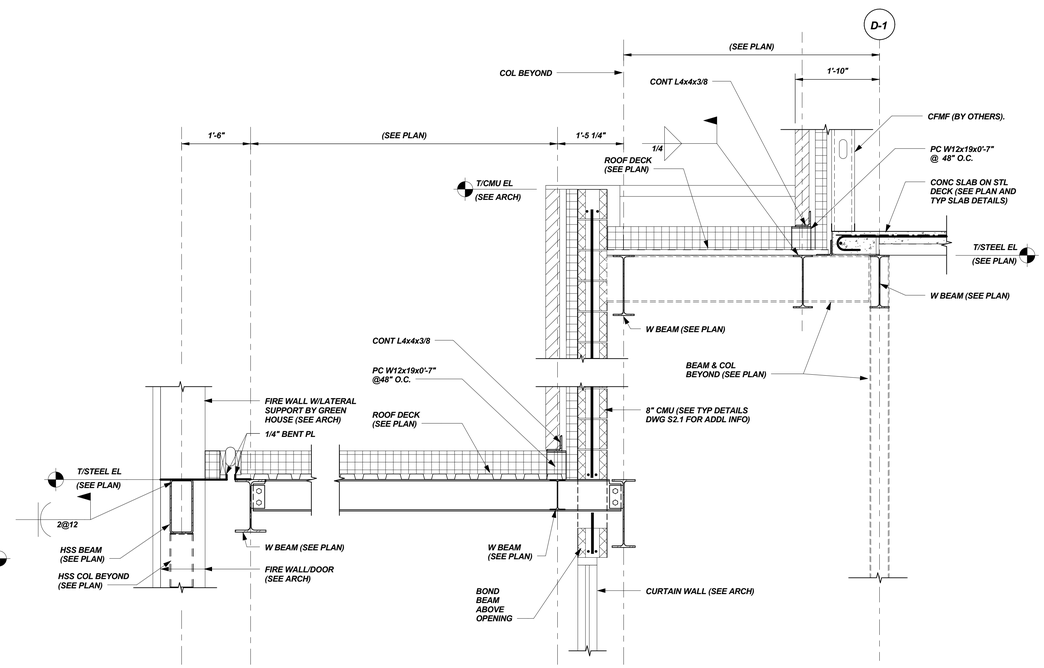

SECTION 7 S1.16
3/4" = 1'-0"

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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CONTENT: FRAMING SECTIONS & DETAILS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
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SCALE:	As indicated

S3.4

Project Phase
BID DOCUMENTS

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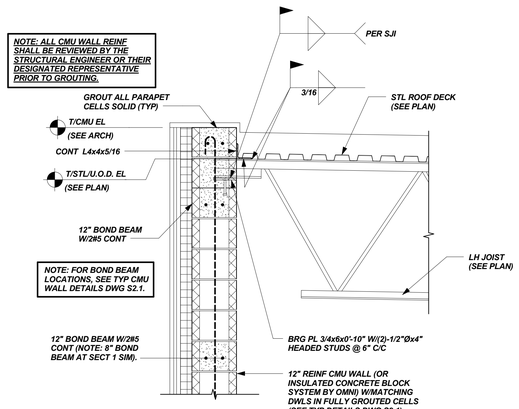
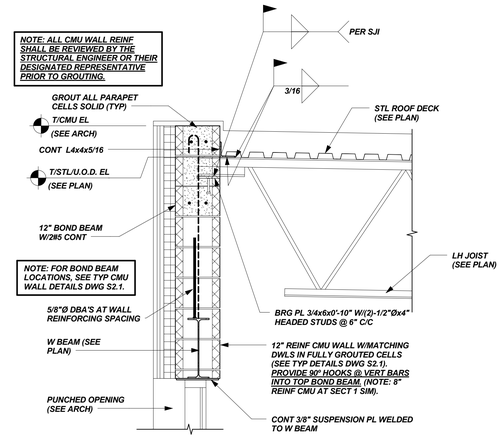


SECTION 1 / S1.14
3/4" = 1'-0"



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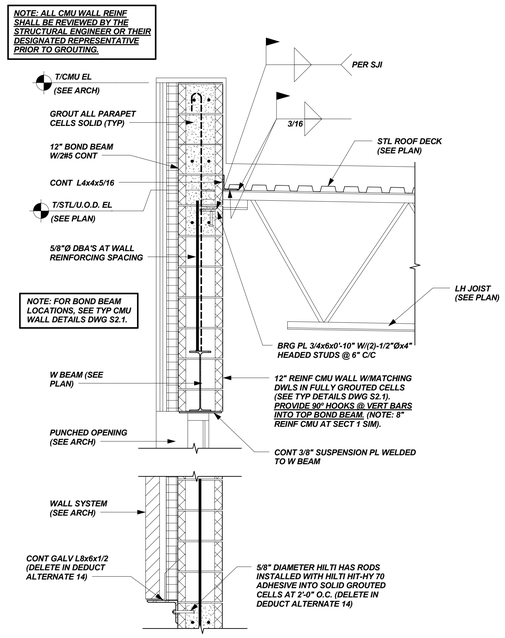

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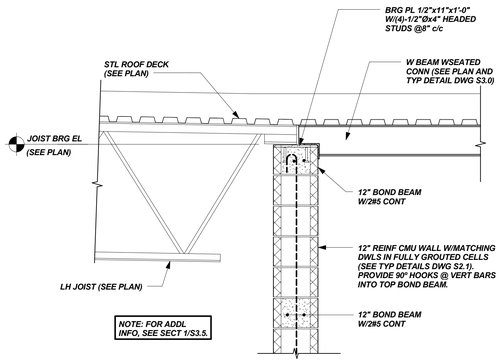

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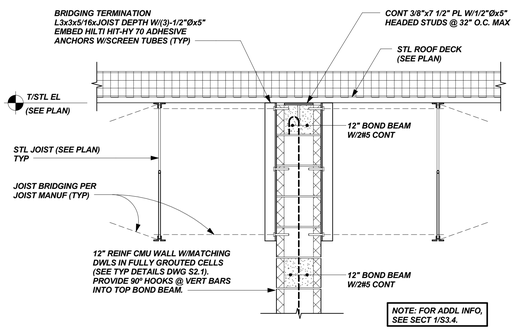

SECTION 5 / S1.22
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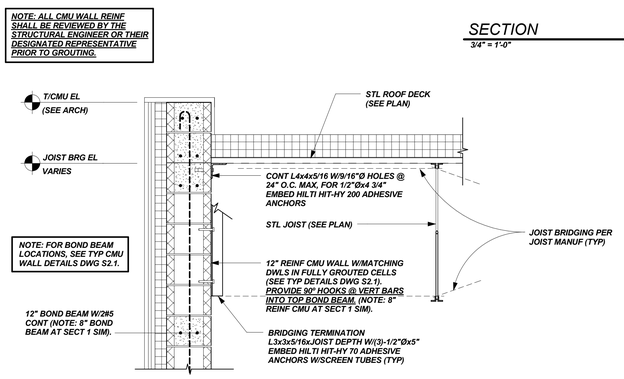

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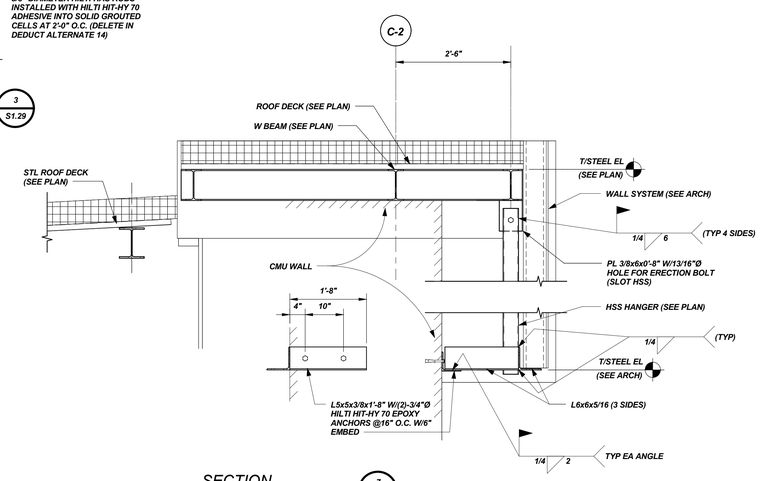

SECTION 7 / S1.26
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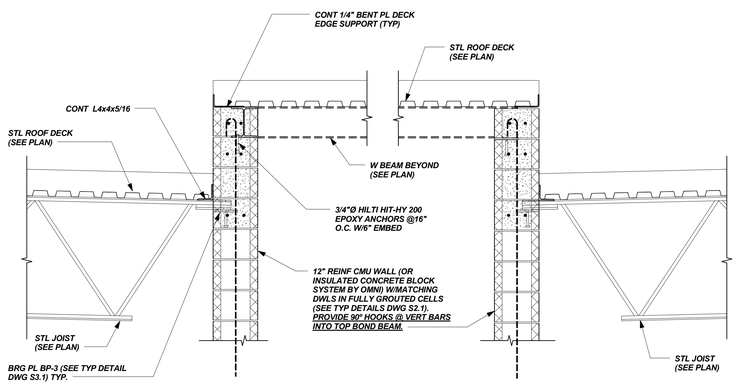

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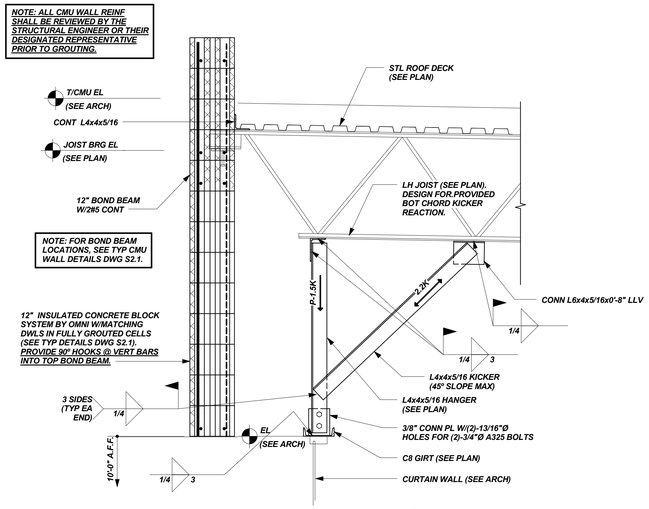
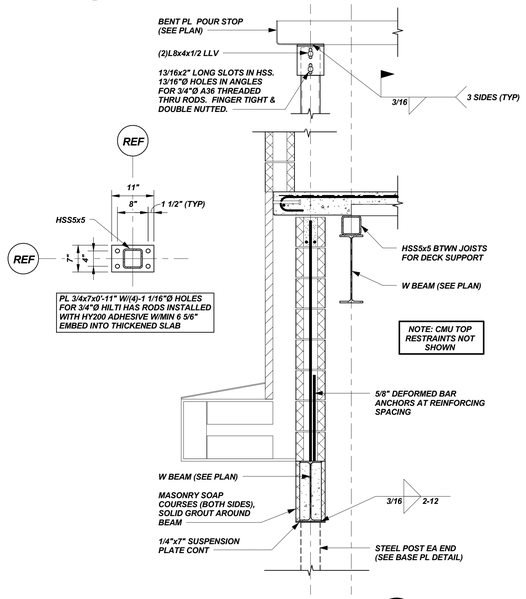
3/4" = 1'-0"



SECTION 9 / S1.29
3/4" = 1'-0"



SECTION 10 / S1.12
3/4" = 1'-0"

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Project Phase: BID DOCUMENTS

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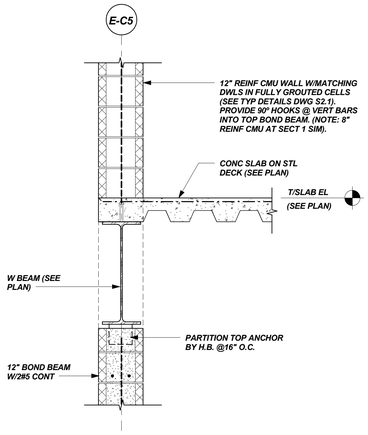
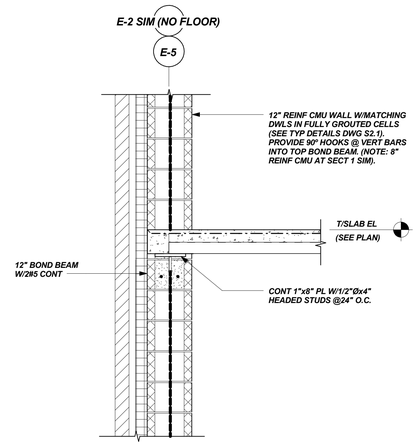


SECTION 1 / S1.17
3/4" = 1'-0"



SECTION 2 / S1.17
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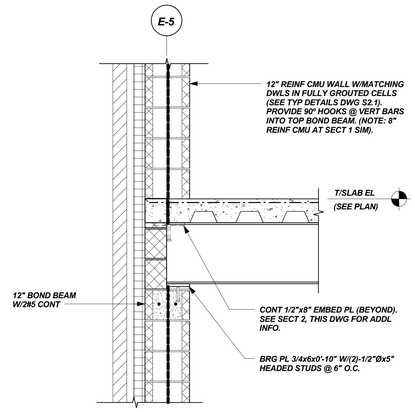

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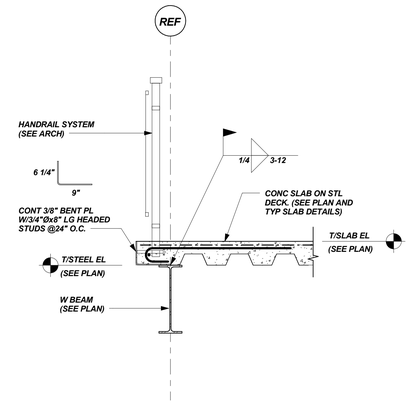

SECTION 4 / S1.14
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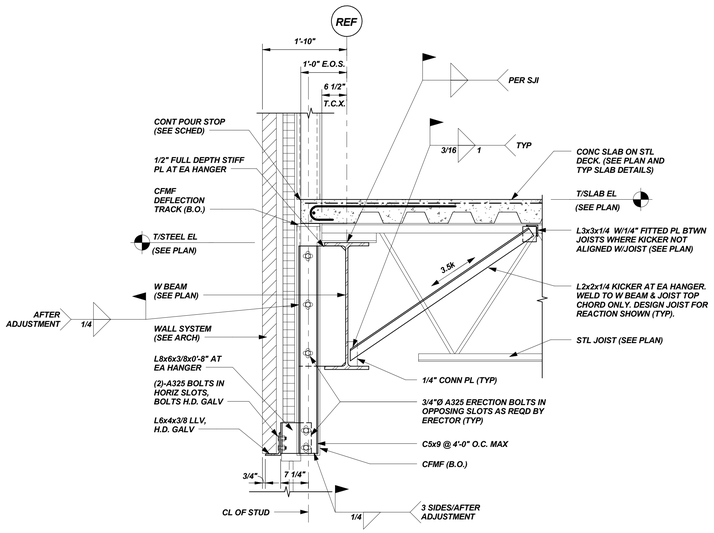
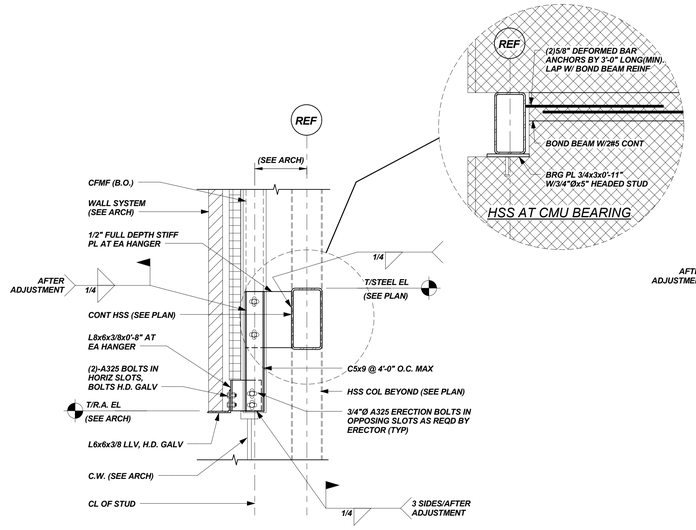
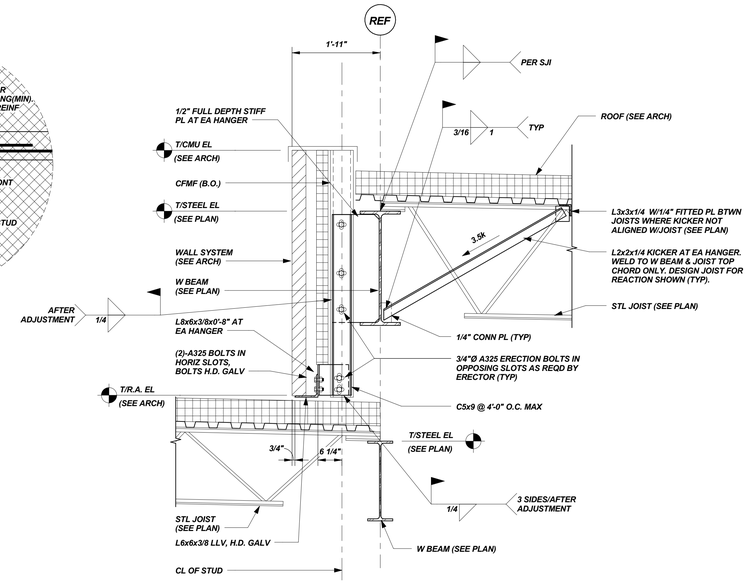


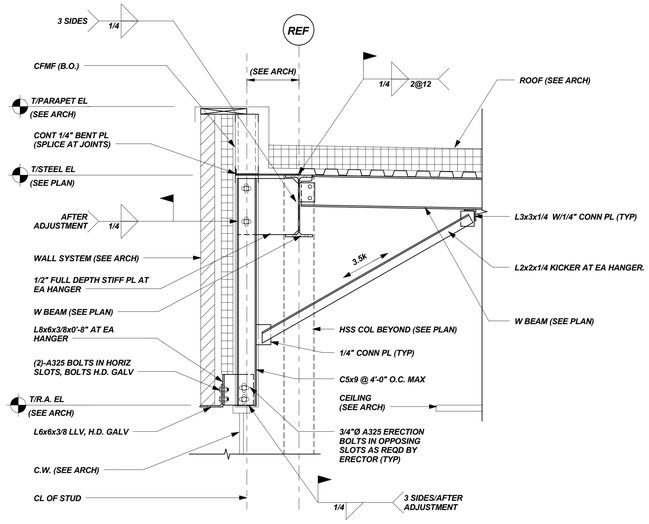
SECTION 5 / S1.14
3/4" = 1'-0"



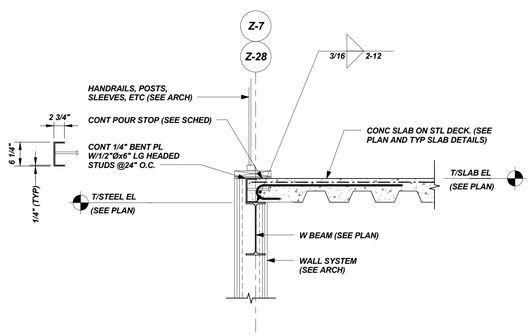
SECTION 6 / S1.12
3/4" = 1'-0"



SECTION 7 / S1.28
3/4" = 1'-0"



SECTION 8 / S1.22
3/4" = 1'-0"



SECTION 9 / S1.13
3/4" = 1'-0"

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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

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CONTENT:
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S3.6

Project Phase
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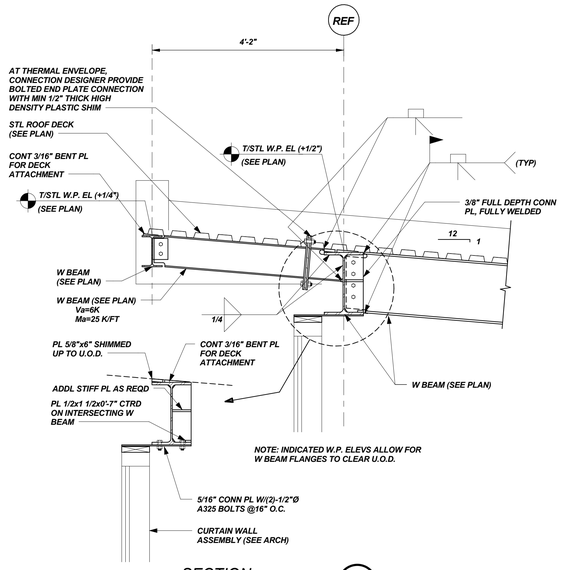

SECTION 1 / S1.21
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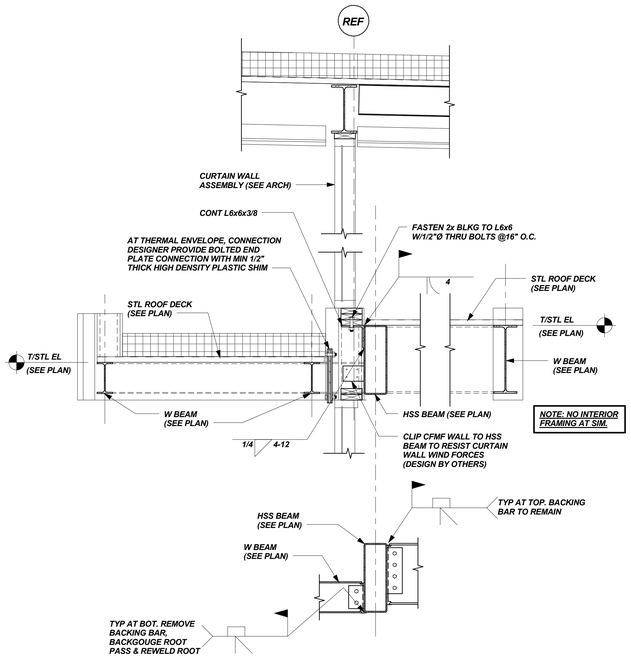
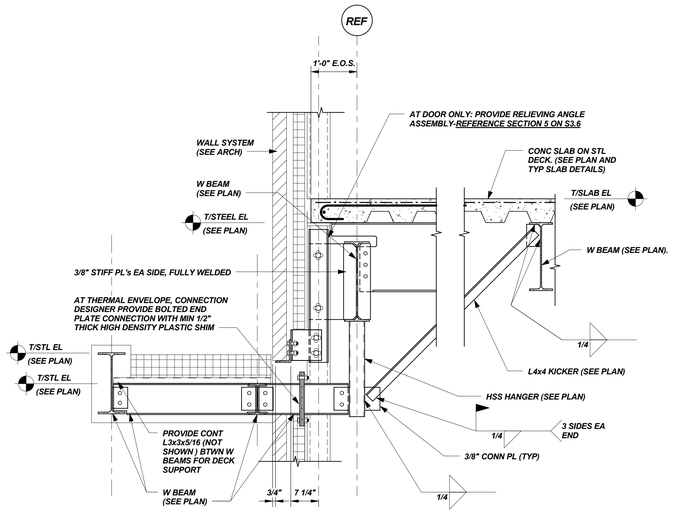
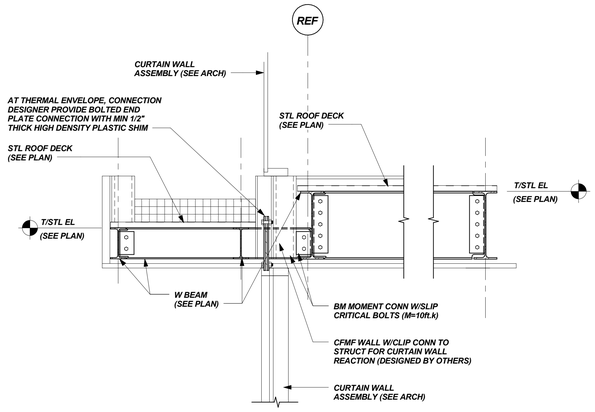


MOMENT CONN DETAIL

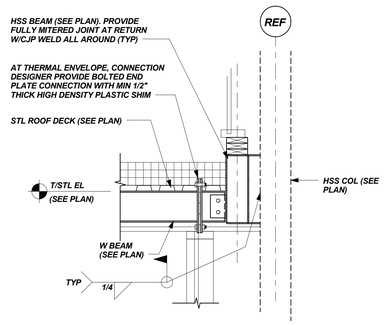
SECTION 2 / S1.11
3/4" = 1'-0"



SECTION 3 / S1.11
3/4" = 1'-0"



SECTION 4 / S1.11
3/4" = 1'-0"



SECTION 5 / S1.16
3/4" = 1'-0"

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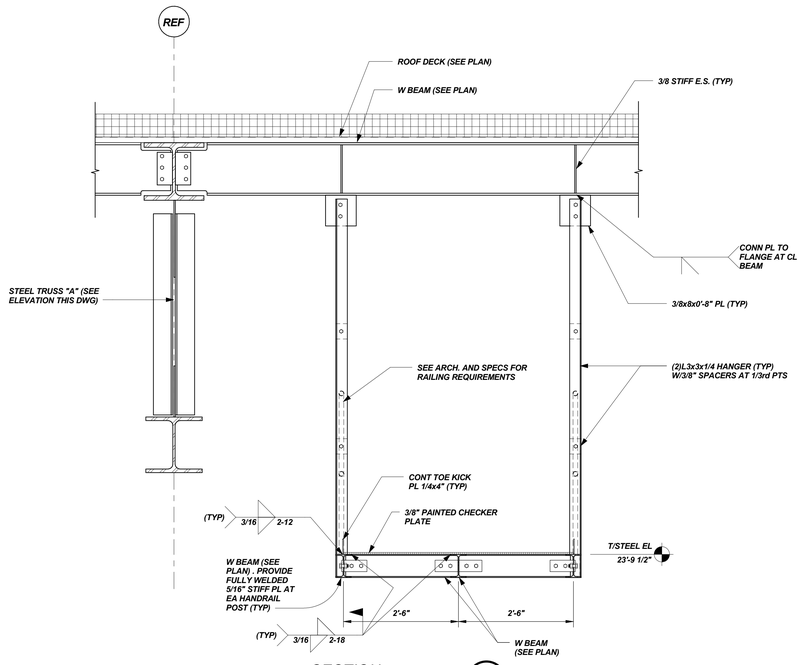
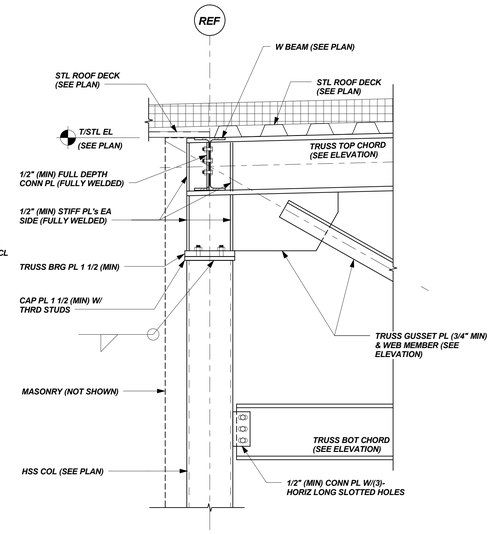
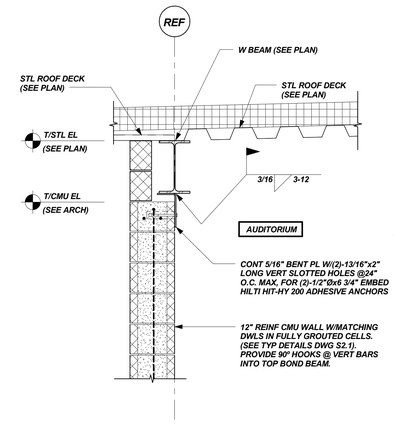


SECTION 1 S1.23
3/4" = 1'-0"



SECTION 2 S1.23
3/4" = 1'-0"



SECTION 3 S1.23
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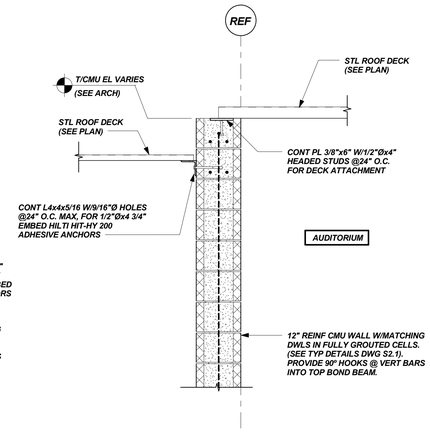
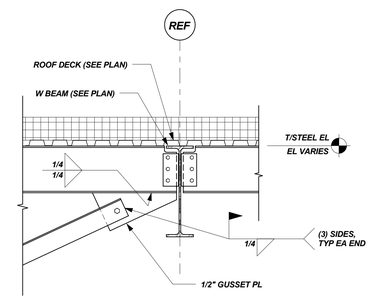
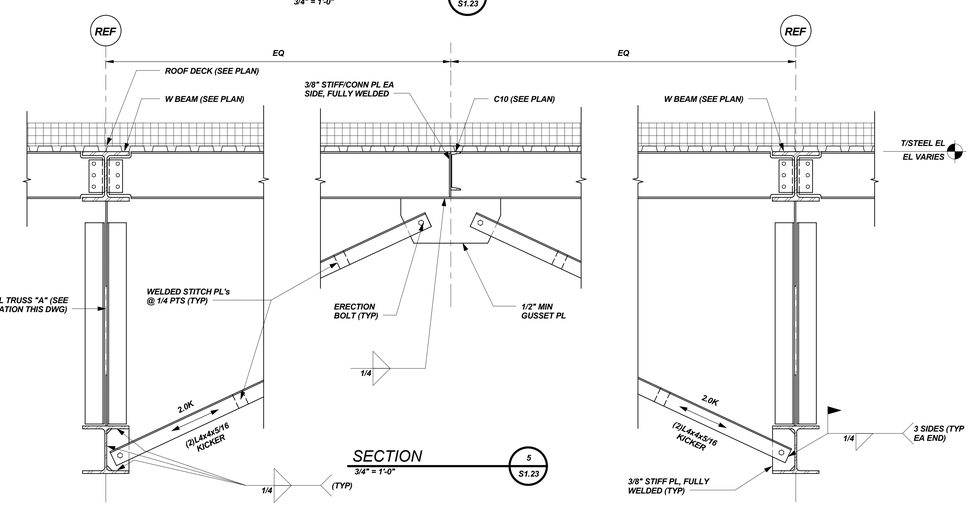


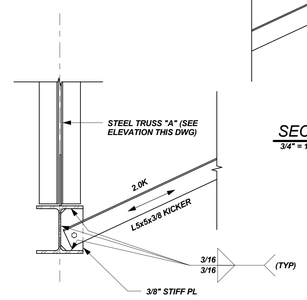
SECTION 4 S1.23
3/4" = 1'-0"

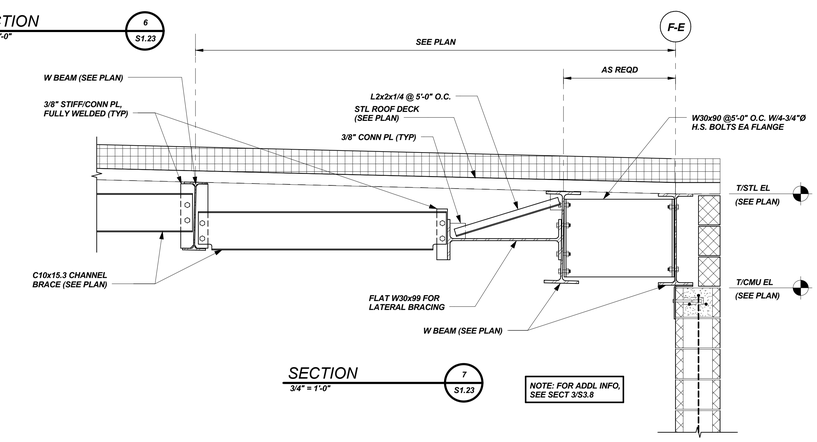


SECTION 6 S1.23
3/4" = 1'-0"



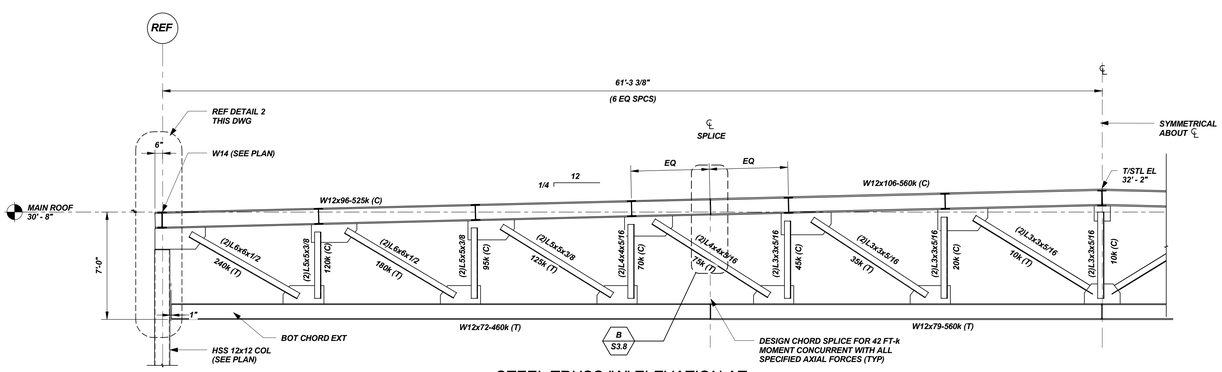
SECTION 5 S1.23
3/4" = 1'-0"





SECTION 7 S1.23
3/4" = 1'-0"

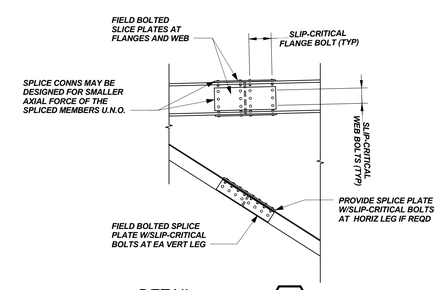
NOTE: FOR ADDL INFO, SEE SECT 3/S3.8



STEEL TRUSS "A" ELEVATION AT AUDITORIUM
(3) TRUSSES REQD.
1/4" = 1'-0"

NOTES:

1. LOADS PROVIDED ARE FACTORED USING ASD COMBINATIONS. (T) INDICATES TENSION, (C) INDICATES COMPRESSION.
2. PROVIDE WELDED SPACER PLATES @ 1/3rd PTS OF DBL ANGLE WEB MEMBERS.
3. G.C. SHALL SUBMIT A DETAILED ERECTION SHORING PLAN FOR ROOF TRUSSES.
4. G.C. SHALL PROVIDE ALL SHORING NECESSARY AS REQD TO ERECT TRUSSES AS PART OF THEIR MEANS & METHODS.
5. TRUSS CONNECTIONS SHOWN FOR INTENT ONLY. FINAL DESIGN BY CONNECTION DESIGNER. SUBMIT SIGNED & SEAL CALCULATIONS FOR REVIEW.



DETAIL B S3.8
1/2" = 1'-0"

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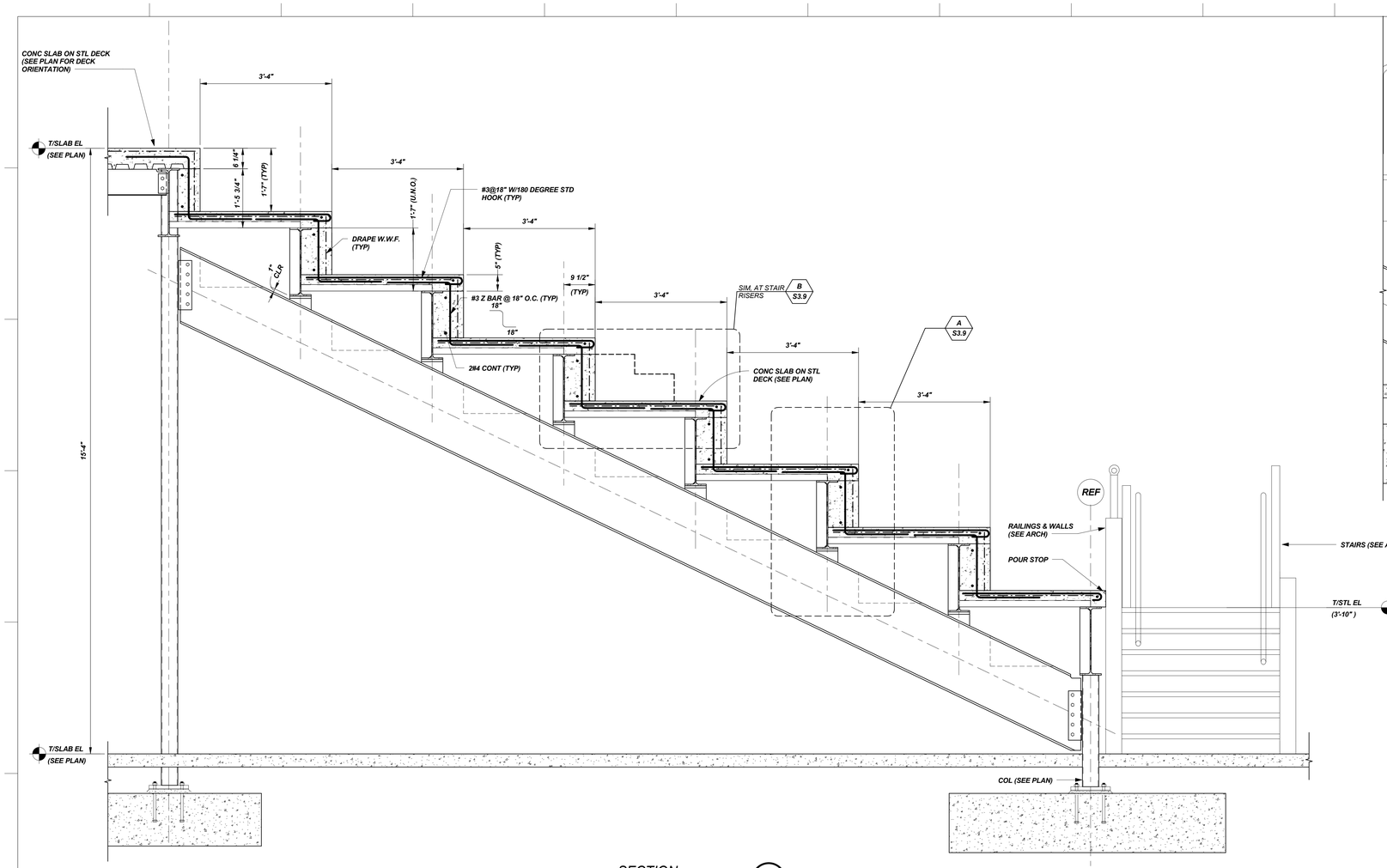
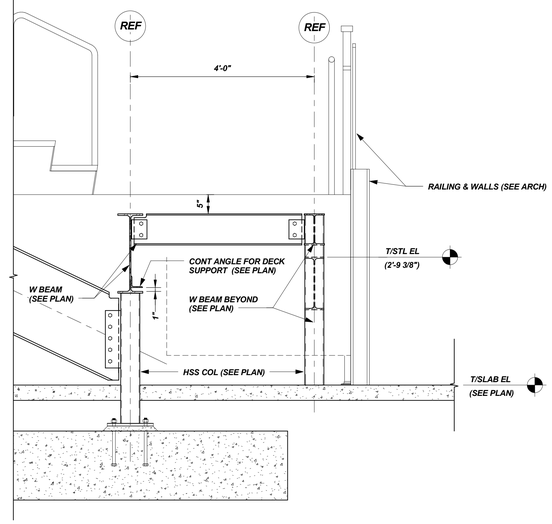
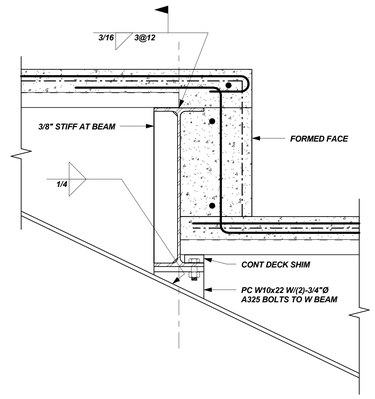


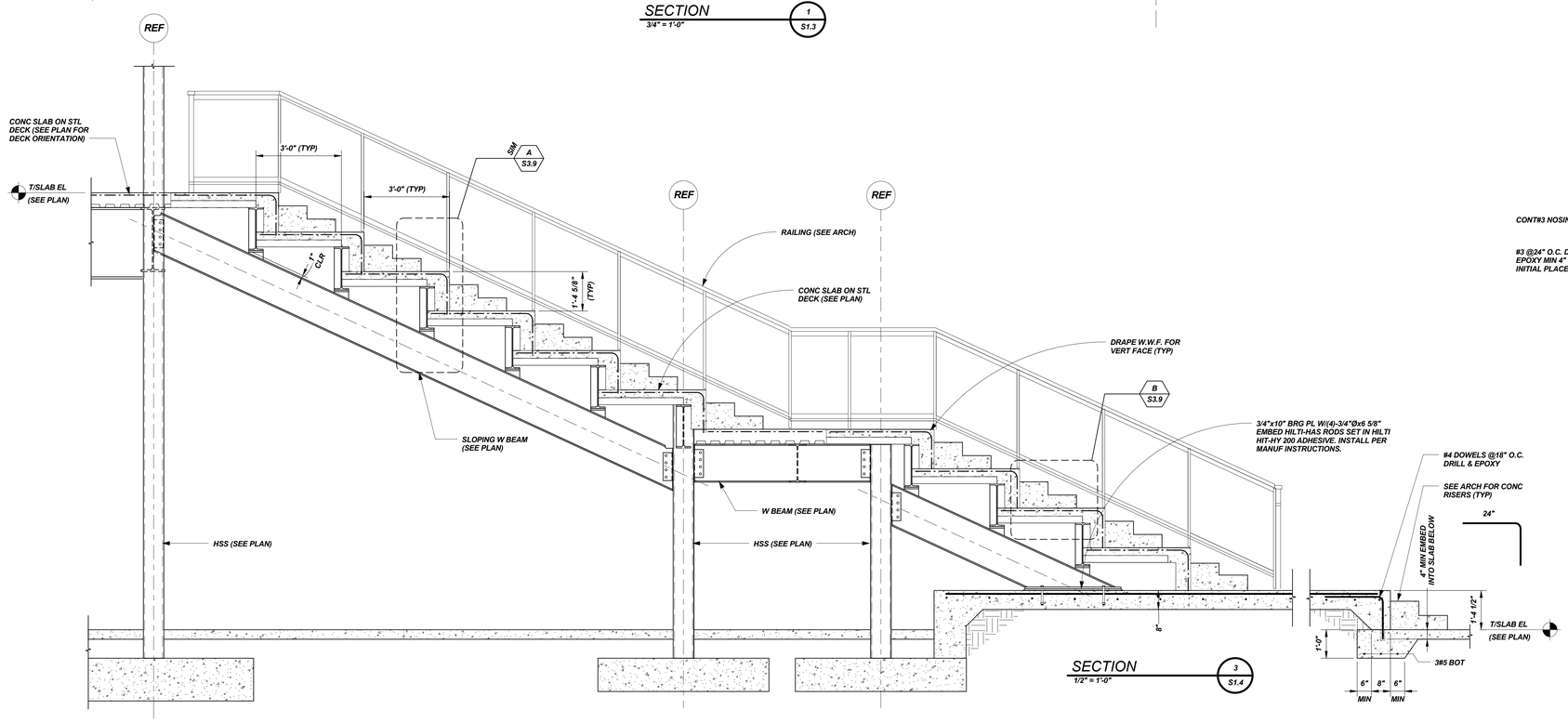
SECTION 1 / S1.3
3/4" = 1'-0"



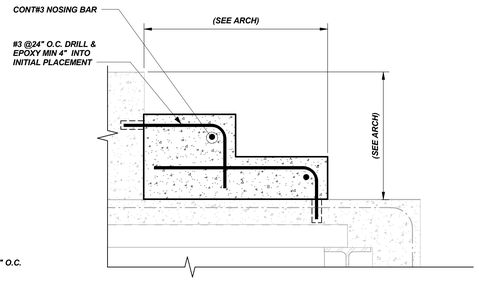
SECTION 2 / S1.13
3/4" = 1'-0"



DETAIL A / S3.9
1 1/2" = 1'-0"



SECTION 3 / S1.4
1/2" = 1'-0"



DETAIL B / S3.9
1 1/2" = 1'-0"

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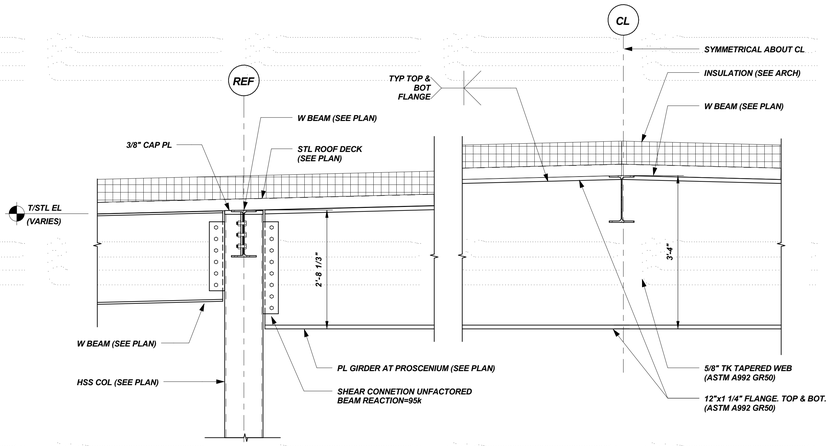
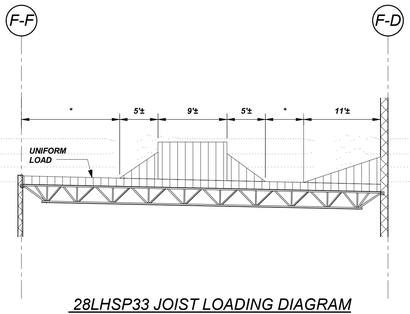


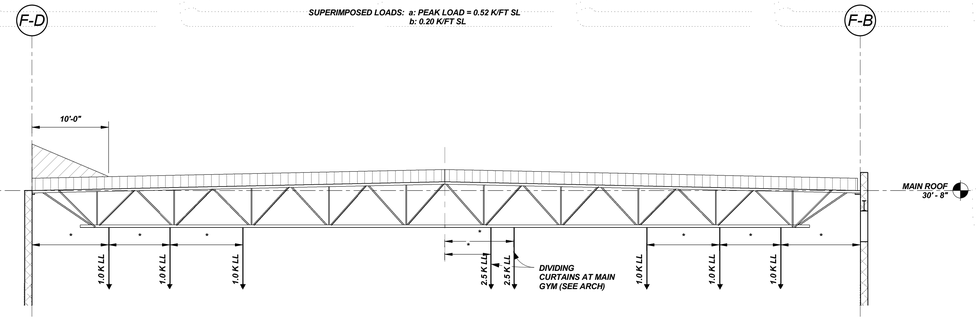
SECTION 1 / S1.23
3/4" = 1'-0"



28LHSP33 JOIST LOADING DIAGRAM
N.T.S.

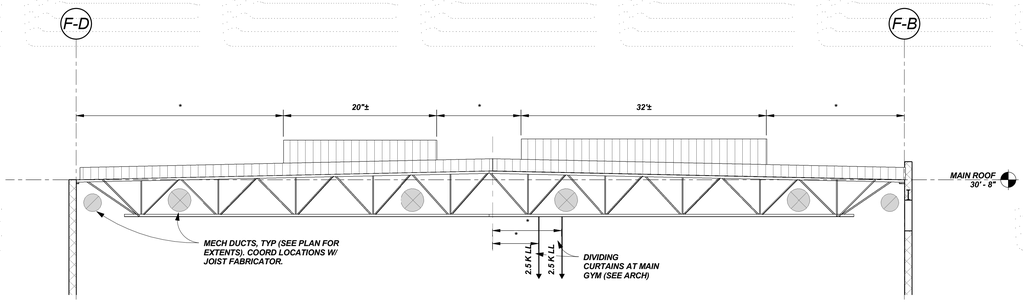
UNIFORM LOAD: 0.12 K/FT DL
0.26 K/FT SL

SUPERIMPOSED LOADS: a: PEAK LOAD = 0.52 K/FT SL
b: 0.20 K/FT SL



60DLHSP38 JOIST LOADING DIAGRAM
N.T.S.

UNIFORM LOAD: 0.11 K/FT DL
0.26 K/FT SL



60DLHSP39A & SP39B JOIST LOADING DIAGRAM
N.T.S.

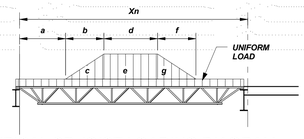
UNIFORM LOAD: 0.11 K/FT DL
0.26 K/FT SL

SUPERIMPOSED LOADS: 39A: 0.11 K/FT SL
39B: 0.20 K/FT SL

JOIST DESIGNATION	REF. GRID	UNIFORM LOAD wDL (k/ft)	UNIFORM LOAD wSL (k/ft)	A ft	B ft	C PEAK k/ft	D ft	E k/ft	F ft	G PEAK k/ft	X1 ft	PL1 k
SP-1	D-C	0.11	0.26	0	0	N/A	*	0.14 SL	0	N/A		
SP-2	D-C	0.11	0.26	0	0	N/A	*	0.04 DL + 0.30 SL	0	N/A		
SP-3	D-C	0.11	0.26	0	0	N/A	*	0.50 SL	0	N/A		
SP-4	D-C	0.12	0.29	0	0	N/A	*	0.30 SL	0	N/A		
SP-5	D-C	0.12	0.29	0	0	N/A	*	0.11 SL	0	N/A		
SP-6	D-D	0.12	0.30	0	0	N/A	0	N/A	7.5	0.22 SL		
SP-7	D-D	0.11	0.26	0	0	N/A	*	0.25 SL	0	N/A		
SP-8	D-D	0.11	0.26	0	0	N/A	*	0.40 SL	0	N/A		
SP-9	D-D	0.12	0.26	0	0	N/A	*	0.50 SL	0	N/A		
SP-10	D-D	0.12	0.26	0	0	N/A	*	0.35 SL	0	N/A		
SP-11	D-D	0.12	0.26	0	0	N/A	*	0.20 SL	0	N/A		
SP-12	D-D	0.12	0.26	0	0	N/A	*	0.10 SL	0	N/A		
SP-13	C-D	0.13	0.27	0	0	N/A	0	N/A	8	0.25 SL		
SP-16	C-C	0.13	0.31	0	0	N/A	0	N/A	15	0.50 SL		
SP-17	C-C	0.13	0.8	0	0	N/A	0	N/A	15	0.50 SL		
SP-18	C-C	0.13	1.01	0	0	N/A	0	N/A	15	0.50 SL		
SP-19	C-C	0.12	0.31	0	0	N/A	0	N/A	15	0.50 SL		
SP-20	C-D	0.12	0.80	0	0	N/A	0	N/A	0	N/A		
SP-21	C-C	0.14	0.29	0	0	N/A	0	N/A	9.5	0.33 SL		
SP-22	C-C1	0.14	0.3	0	0	N/A	0	N/A	9.5	0.33 SL		
SP-24	E-C	0.11	0.45	*	11	0.60 SL	7	0.58 DL	5	0.38 SL		
SP-25	E-C	0.12	0.51	*	11	0.36 SL	7	0.35 DL	5	0.24 SL		
SP-26	A-D	0.10	0.22	0	0	N/A	*	0.24 SL	0	N/A		
SP-27	A-D	0.20	0.3	0	0	N/A	*	0.48 SL	0	N/A		
SP-28	A-D	0.20	0.3	0	0	N/A	*	0.25 SL	0	N/A		
SP-29	A-H	0.11	0.3	0	0	N/A	0	N/A	29	0.80 SL		
SP-30	A-G	0.13	0.3	0	0	N/A	0	N/A	8.5	0.30 SL		
SP-31	F-D	0.13	0.3	*	10.5	0.32 SL	7	0.70 DL	5	0.2 SL		
SP-32	F-D	0.12	0.26	0	0	N/A	0	N/A	11	0.52 SL		
SP-34	F-D	0.11	0.26	0	0	N/A	0	N/A	10	0.35 SL	62	2.0 LL
SP-41	F-B	0.16	0.3	0	0	N/A	0	N/A	29	0.85 SL		
SP-42	F-B	0.16	0.3	0	0	N/A	0	N/A	18	0.6 SL		

JOIST DESIGNATION	REF. GRID	UNIFORM LOAD wDL (k/ft)	UNIFORM LOAD wSL (k/ft)	X1 ft	PL1 K	X2 FT	PL2 K	X3 FT	PL3 ft	X4 FT	PL4 ft	X5 FT	PL5 ft	X6 FT	PL6 K	X7 FT	PL7 ft
SP-35	F-D	0.11	0.26	55.5	1.0 LL												
SP-36	F-D	0.11	0.26	55.5	1.0 LL	26	1 LL	33	1 LL	76	1 LL	82	1 LL				
SP-37	F-D	0.11	0.26	55.5	1.0 LL	57	1 LL	63	1 LL								
SP-40	F-D	0.11	0.26	8	1 LL	16	1 LL	25.5	1 LL	55.5	1.0 LL	85.5	1 LL	95	1 LL	103	1 LL

JOIST LOADING DIAGRAM SCHEDULE



TYPICAL SP JOIST LOADING DIAGRAM
N.T.S.

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
JOIST LOADING DIAGRAMS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S3.10

Project Phase
BID DOCUMENTS

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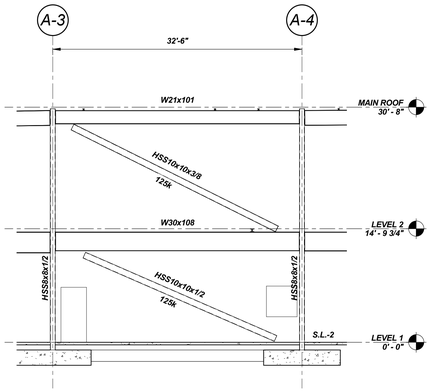
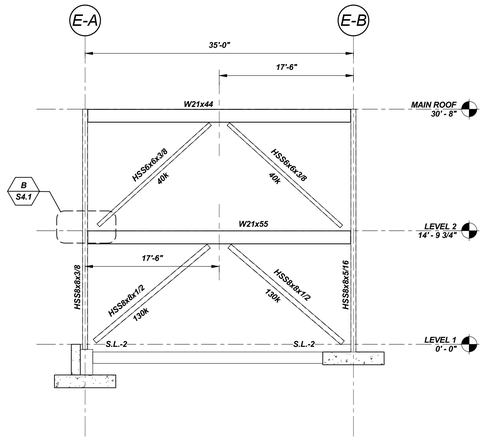
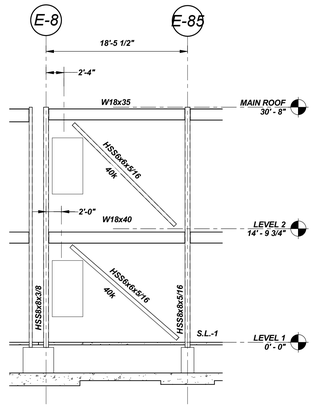


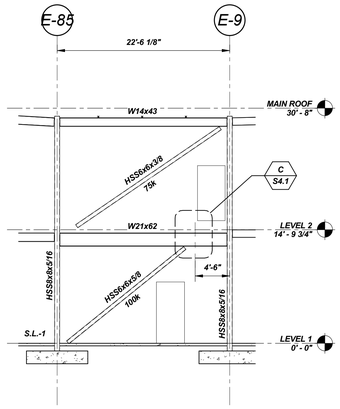
BF-A1 AT A-D LINE
1/8" = 1'-0"



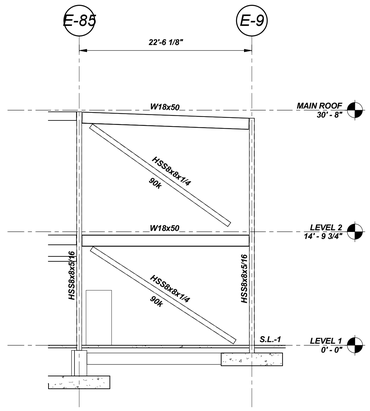
BF-A2 AT E-8 LINE
1/8" = 1'-0"



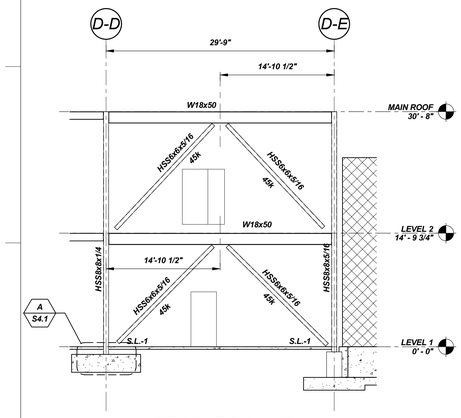
BF-A3 AT E-A LINE
1/8" = 1'-0"



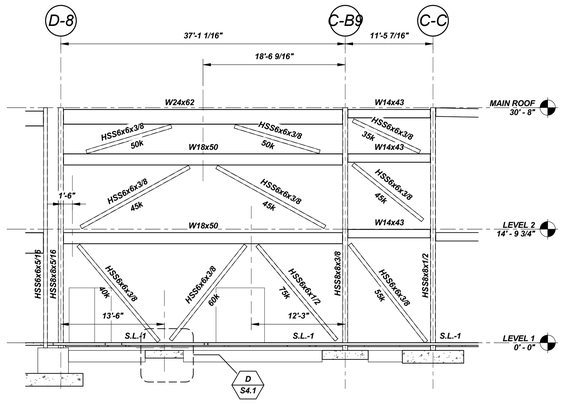
BF-A4 AT E-C LINE
1/8" = 1'-0"



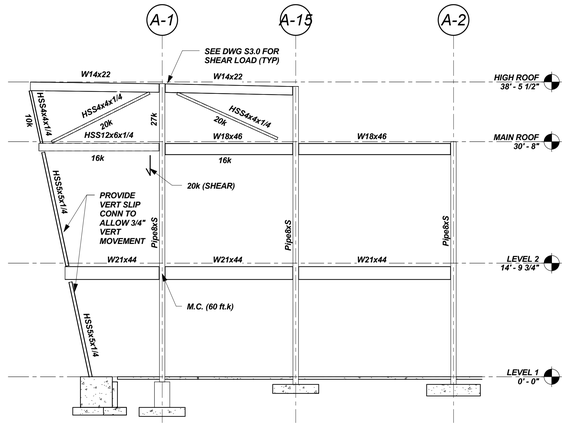
BF-A5 AT E-D LINE
1/8" = 1'-0"



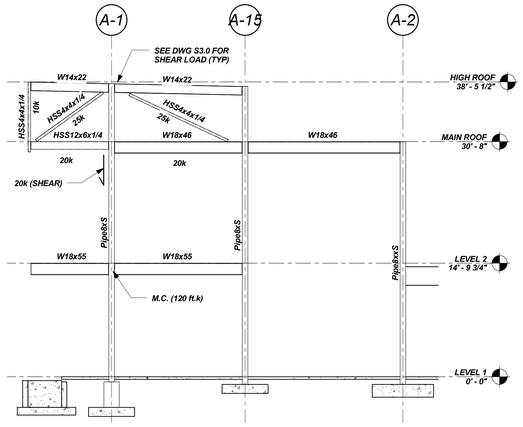
BF-A6 AT D-8 LINE
1/8" = 1'-0"



BF-A7 AT D-E LINE
1/8" = 1'-0"



BF-A-F1 AT A-F1 LINE
1/8" = 1'-0"



BF-D-9 AT A-D9 LINE
1/8" = 1'-0"

BRACED FRAME ELEVATIONS

1/8"=1'-0"

NOTES:

1. LOADS INDICATED ON BRACED FRAME ELEVATIONS (--K) ARE UNFACTORED LOADS AND MAY ACT IN TENSION AND COMPRESSION.
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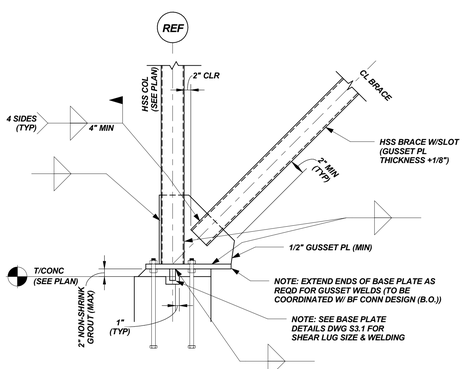
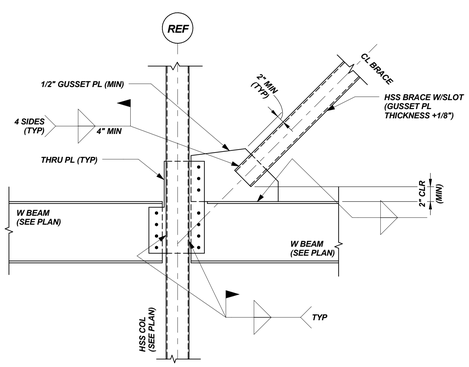
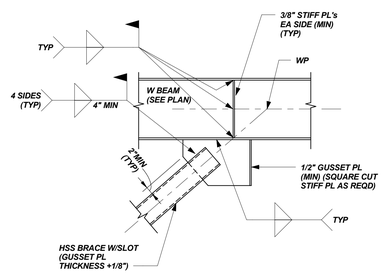
5. S.L. INDICATES SHEAR LUG. SEE ADDITIONAL INFORMATION DWG S3.1.
6. CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW PER SPECIFICATIONS AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE AND SHALL INCLUDE THE FOLLOWING:
   - A. GEOMETRY NECESSARY FOR UNIFORM FORCE METHOD CALCULATIONS.
   - B. ALL APPLICABLE FAILURE MODE CHECKS.



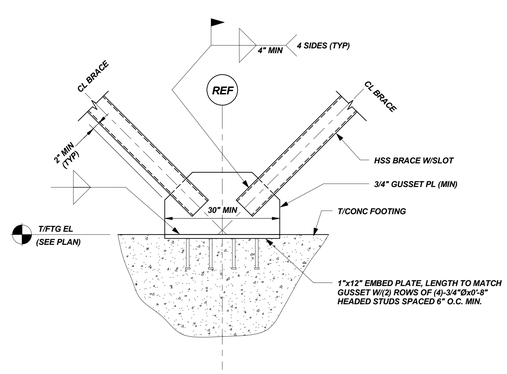
DETAIL A S4.1
3/4" = 1'-0"



DETAIL B S4.1
3/4" = 1'-0"



DETAIL C S4.1
3/4" = 1'-0"



DETAIL D S4.1
3/4" = 1'-0"

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT: AREA A BRACED FRAME ELEVATIONS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	As indicated

S4.1

Project Phase: BID DOCUMENTS

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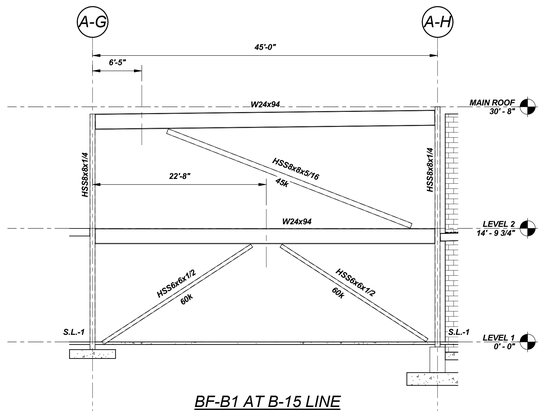
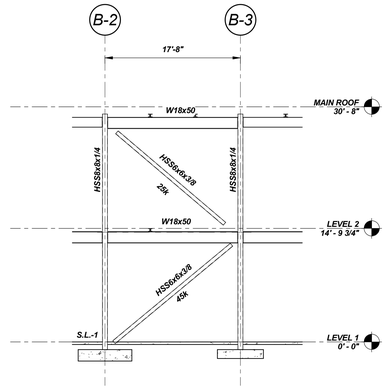
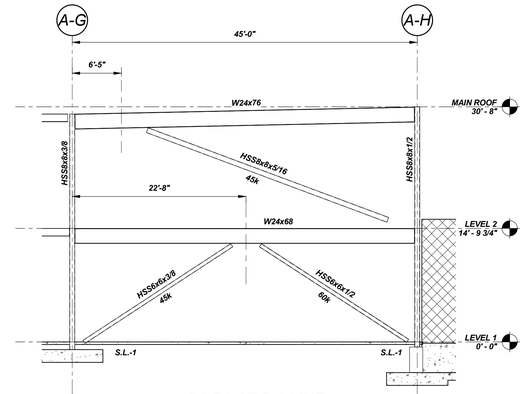


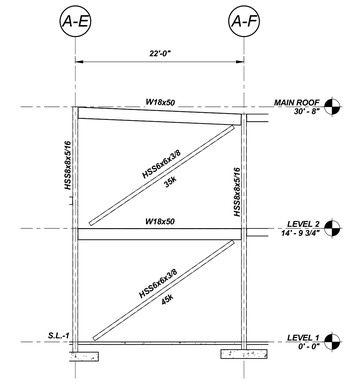
BF-B1 AT B-15 LINE
1/8" = 1'-0"



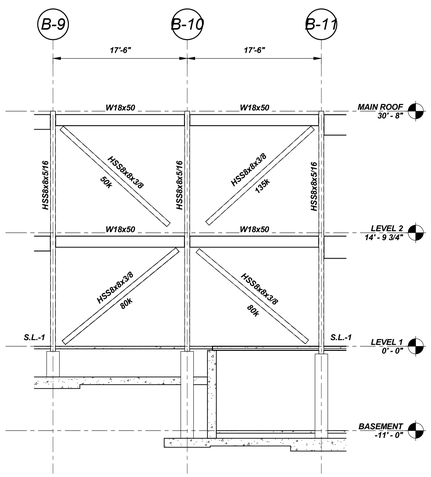
BF-B2 AT A-G LINE
1/8" = 1'-0"



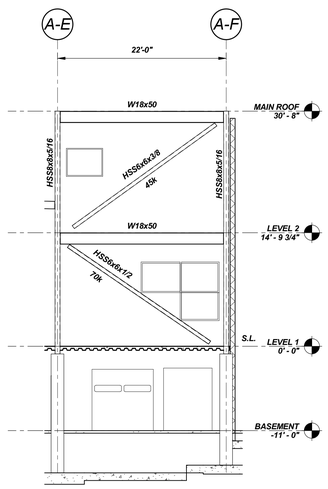
BF-B3 AT B-6 LINE
1/8" = 1'-0"



BF-B4 AT B-7 LINE
1/8" = 1'-0"



BF-B5 AT A-H LINE
1/8" = 1'-0"



BF-B6 AT B-12 LINE
1/8" = 1'-0"

BRACED FRAME ELEVATIONS

1/8"=1'-0"

NOTES:

1. LOADS INDICATED ON BRACED FRAME ELEVATIONS (–K) ARE UNFACTORED LOADS AND MAY ACT IN TENSION AND COMPRESSION.
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SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

CONTENT:
AREA B BRACED FRAME ELEVATIONS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

S4.2

Project Phase
BID DOCUMENTS

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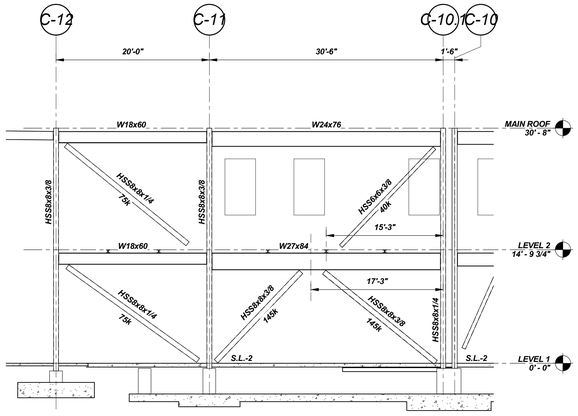
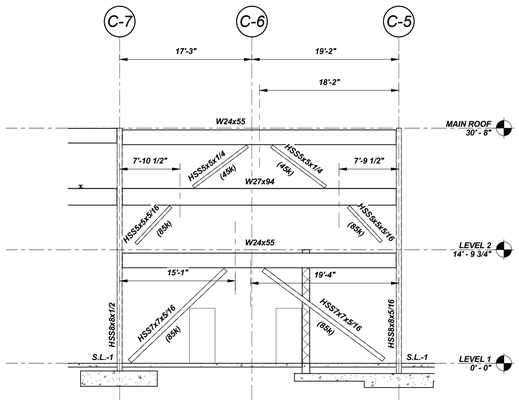
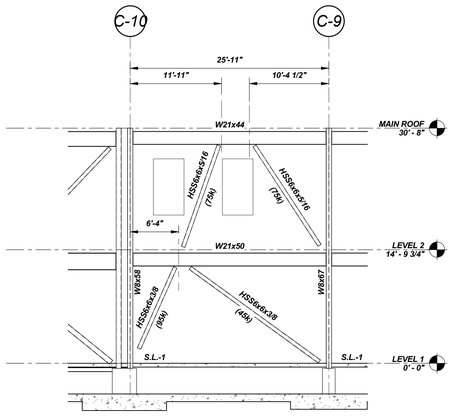


BF-C1 AT C-E LINE
1/8" = 1'-0"



BF-C2 AT C-C LINE
1/8" = 1'-0"



BF-C3 AT C-E LINE
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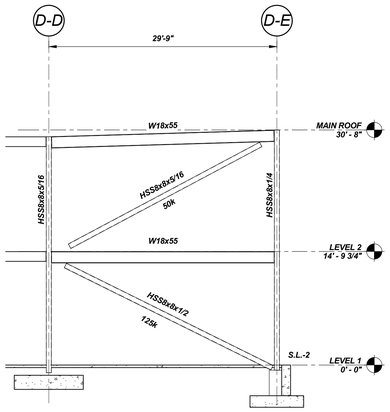
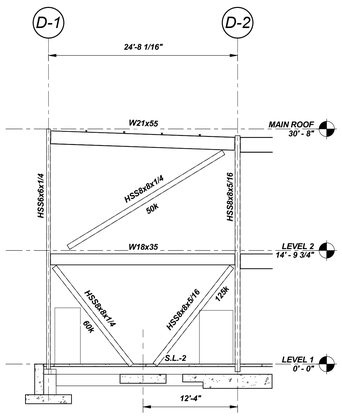
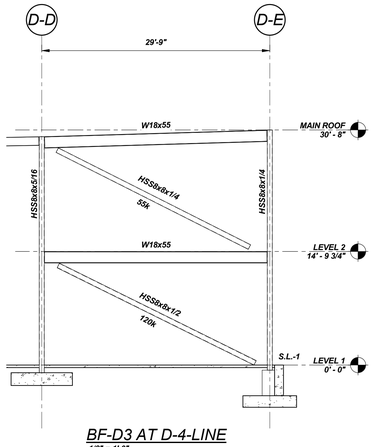


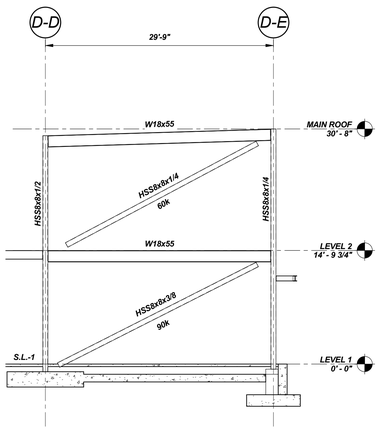
BF-D1 AT D-2 LINE
1/8" = 1'-0"



BF-D2 AT D-D LINE
1/8" = 1'-0"



BF-D3 AT D-4-LINE
1/8" = 1'-0"



BF-D4 AT D-58 LINE
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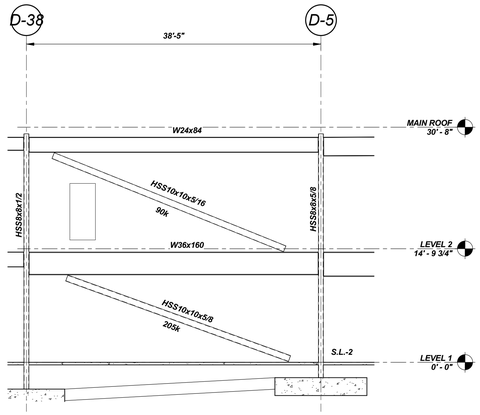
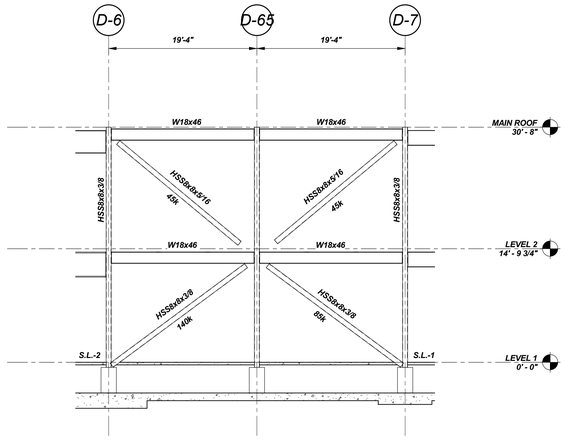
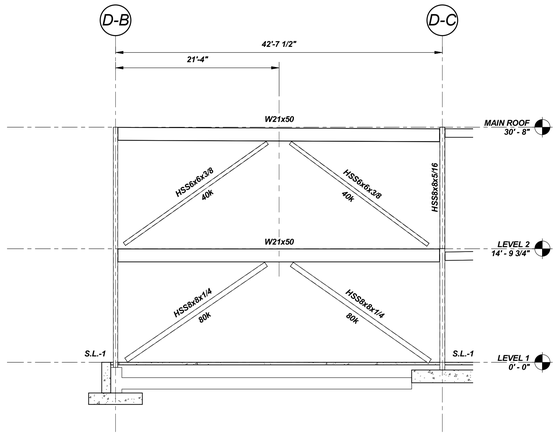


BF-D5 AT D-C LINE
1/8" = 1'-0"



BF-D6 AT D-B LINE
1/8" = 1'-0"



BF-D7 AT D-76 LINE
1/8" = 1'-0"

BRACED FRAME ELEVATIONS

1/8"=1'-0"

NOTES:

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STATE OF MAINE
ETHAN A. RHILE
NO.10786
LICENSED PROFESSIONAL ENGINEER

SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

CONTENT:
AREA C & D BRACED FRAME ELEVATIONS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

S4.3

Project Phase
BID DOCUMENTS

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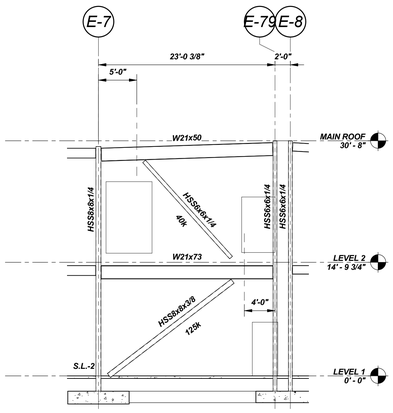
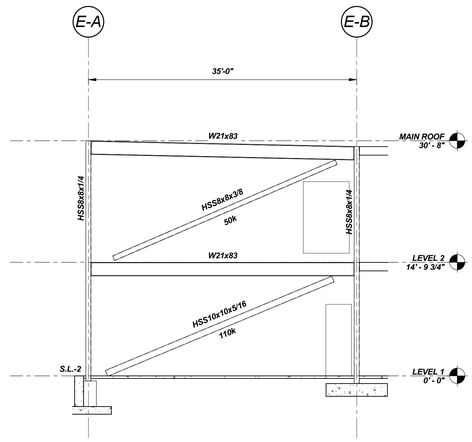
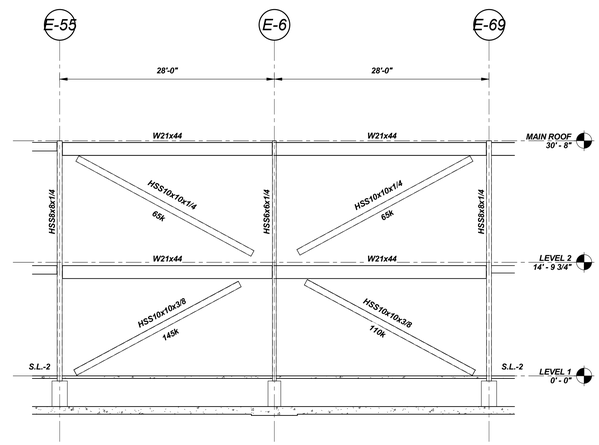


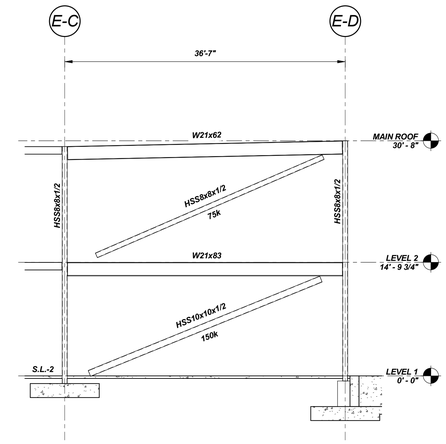
BF-E1 AT E- C LINE
1/8" = 1'-0"



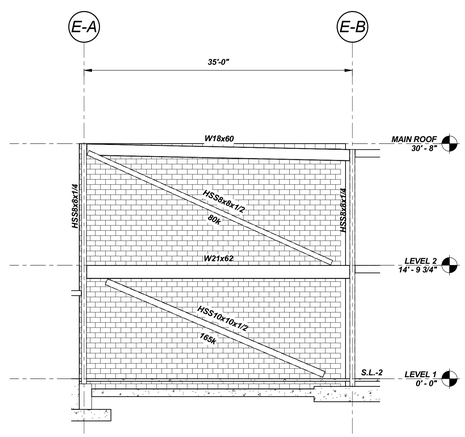
BF-E2 AT E-7 LINE
1/8" = 1'-0"



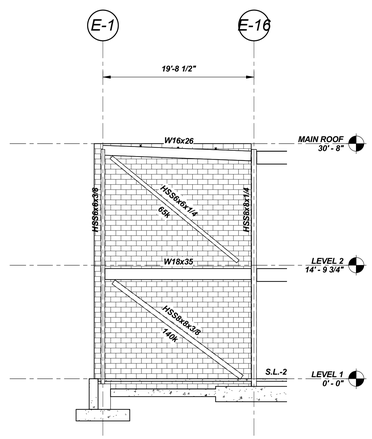
BF-E3 AT E-A LINE
1/8" = 1'-0"



BF-E4 AT E-5 LINE
1/8" = 1'-0"



BF-E5 AT E-3 LINE
1/8" = 1'-0"



BF-E6 AT E-C LINE
1/8" = 1'-0"

BRACED FRAME ELEVATIONS

1/8"=1'-0"

NOTES:

1. LOADS INDICATED ON BRACED FRAME ELEVATIONS (–K) ARE UNFACTORED LOADS AND MAY ACT IN TENSION AND COMPRESSION.
2. LOADS INDICATED HAVE BEEN GENERATED USING R=3. CONNECTIONS DO NOT REQUIRE ADDITIONAL OVERSTRENGTH FACTORS.
3. CONNECTIONS SHALL BE DESIGNED TO NOT INDUCE MOMENT INTO BEAMS AND COLUMNS, BEYOND THAT FORCED BY MEMBER GEOMETRY.
4. PROVIDE ANGLE BRACE AT ALL DIAGONAL CONNECTIONS LOCATED WITHIN SPAN OF BEAM.
5. S.L. INDICATES SHEAR LUG. SEE ADDITIONAL INFORMATION DWG S3.1.
6. CONNECTION DESIGN CALCULATIONS SHALL BE SUBMITTED FOR REVIEW PER SPECIFICATIONS AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE AND SHALL INCLUDE THE FOLLOWING:
   - A. GEOMETRY NECESSARY FOR UNIFORM FORCE METHOD CALCULATIONS.
   - B. ALL APPLICABLE FAILURE MODE CHECKS.

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SANFORD SCHOOL DEPARTMENT AND STATE OF MAINE DEPARTMENT OF EDUCATION

SANFORD HIGH SCHOOL AND TECHNICAL CENTER

SANFORD, ME 04073

NO.	DESCRIPTION	DATE

N

CONTENT:
AREA E BRACED FRAME ELEVATIONS

DRAWN BY:	BSE
PROJECT NO:	12-067-00
DATE:	02/11/2016
REVISED:	
SCALE:	1/8" = 1'-0"

S4.4

Project Phase
BID DOCUMENTS

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FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

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