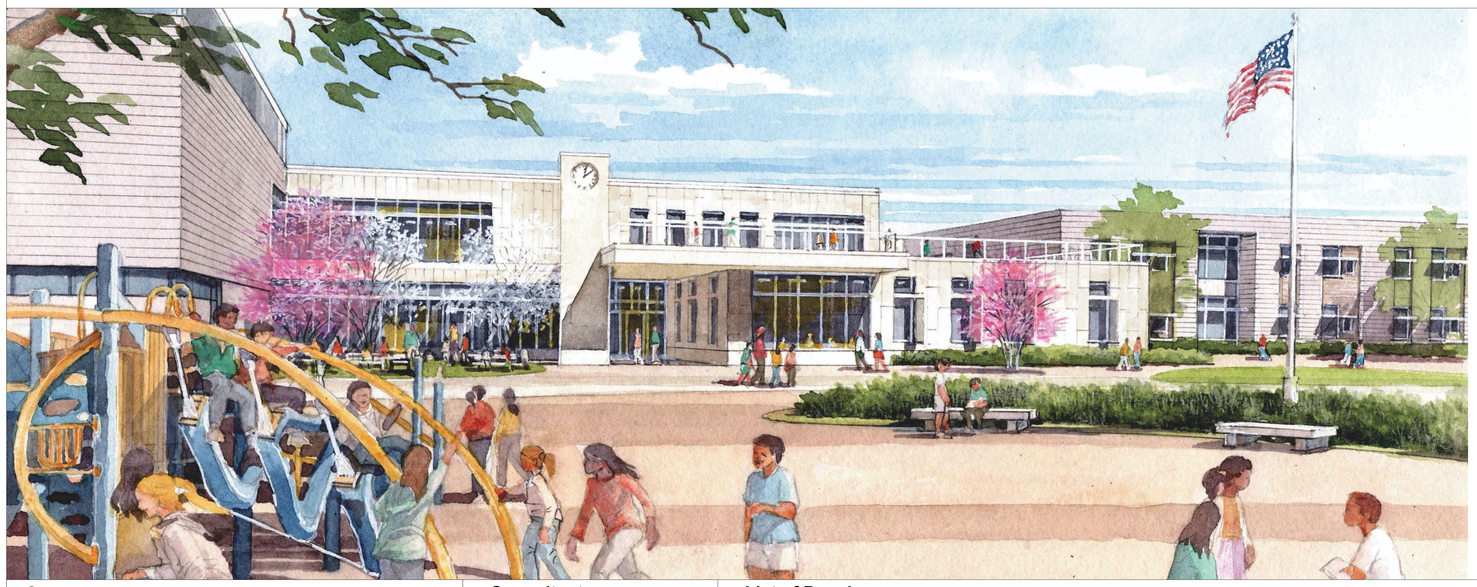
David Mindess Elementary School

90 Concord Street, Ashland, MA

FAI Project No. 1914.00

Planning Board Resubmission

Final Permitting Set
11.19.2021



Owner

Town of Ashland
101 Main Street
Ashland, MA 01721

Architect

FLANSBURGH

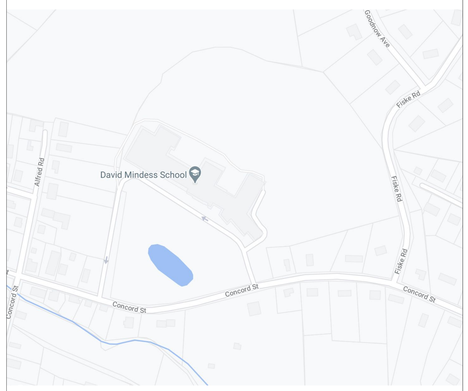
77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

Owner's Project Manager

Compass Project Management, Inc.
Owner's Project Manager
One Edgewater Drive, Suite 204
Norwood, MA 02062

Locus Plan



Consultants

Nitsch Engineering, Inc.
Land Survey/ Traffic/ Civil Engineers
2 Center Plaza
Boston, MA 02108

Stimson Studio
Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

Vanderweil Engineers, LLP
Mechanical Electrical Technology Plumbing & Fire Protection Engineers
274 Summer Street
Boston, MA 02210

List of Drawings

CIVIL

EX1.0 Existing Conditions
EX2.0 Existing Conditions
EX3.0 Existing Conditions
EX4.0 Existing Conditions
C1.0 Civil Notes, Legends and Abbreviations
C1.1 Overall Site Plan
C2.0 Erosion and Sedimentation Control Plan
C2.1 Erosion and Sedimentation Control Plan
C2.2 Erosion and Sedimentation Control Plan
C2.3 Erosion and Sedimentation Control Plan
C3.0 Site Demolition Plan
C3.1 Site Demolition Plan
C3.2 Site Demolition Plan
C3.3 Site Demolition Plan
C4.0 Roadway Layout and Materials Plan
C4.1 Roadway Layout and Materials Plan
C4.2 Roadway Layout and Materials Plan
C4.3 Roadway Layout and Materials Plan
C5.0 Signage and Striping Plan
C5.1 Signage and Striping Plan
C5.2 Signage and Striping Plan
C5.3 Signage and Striping Plan
C6.0 Site Utility Plan
C6.1 Site Utility Plan
C6.2 Site Utility Plan
C6.3 Site Utility Plan
C7.0 Site Drainage Plan
C7.1 Site Drainage Plan
C7.2 Site Drainage Plan
C7.3 Site Drainage Plan
C8.0 Sewer Profile
C8.1 Sewer Profile
C8.2 Utility Section
C9.0 Erosion and Sedimentation Control Details
C9.1 Civil Details
C9.2 Civil Details
C9.3 Civil Details
C0.4 Civil Details

LANDSCAPE

L1.00 Overall Site Plan
L2.01 Layout and Materials Plan 1
L2.02 Layout and Materials Plan 2
L2.03 Layout and Materials Plan 3
L2.04 Layout and Materials Plan 4
L3.01 Grading Plan 1
L3.02 Grading Plan 2
L3.03 Grading Plan 3
L3.04 Grading Plan 4
L4.00 Overall Planting Plan
L4.01 Tree Protection and Removal Plan
L5.00 Paving, Wall and Stair Details
L5.01 Fence, Handrail, and Guardrail Details
L5.02 Site Furnishings Details
L5.03 Baseball Field Layout and Details
L5.04 Planting Details
PH.0 Phase 'Zero': October-January
PH.1 Phase 1: New Construction
PH.2 Phase 2A: Demo & Site Prep
PH.3 Phase 2B: New School Opens / Demo
PH.4 Project Complete

ARCHITECTURE

A1.10 Overall First Floor Plan
A1.10A First Floor Plan
A1.10B First Floor Plan
A1.20 Overall Second Floor Plan
A1.20A Second Floor Plan
A1.20B Second Floor Plan
A1.30 Overall Roof Plan
A1.30A Roof Plan
A1.30B Roof Plan
A3.01 Exterior Elevations
A3.02 Exterior Elevations
A4.01 Building Sections

ELECTRICAL

SL1 Site Lighting
SL2 Site Lighting Calculations
SL3 Site Lighting and Photometrics

5 ALFRED RD
N/F
THOMAS D. FRASER
BK 56030 PG 44

17 RAYMOND MARCHETTI ST T
N/F
TANVIR RIZWAN PATEL RITEN
BK 54585 PG 171

11 RAYMOND MARCHETTI ST
N/F
MAGRI STEVEN E MAGRI JOHN J
BK 20788 PG 470

84 CONCORD ST
N/F
LARRY FEISS
BK 66972 PG 126

85 CONCORD ST
N/F
PATRICIA M. CINCOTTA
BK 31631 PG 475

87 CONCORD ST
N/F
BETSY F. ABDOU
BK 64902 PG 380

91 -93 CONCORD ST
N/F
MARILYN Z. LOURANDOS
BK 01400 PG 99

99 CONCORD ST
N/F
ARTHUR L. & ROSE M. HOGAN
BK 56824 PG 156

117 CONCORD ST
N/F
LAWRENCE F. CROKE
BK 62082 PG 556

MASSACHUSETTS STATE PLANE COORDINATE SYSTEM
NAD 83

BENCH MARK: A
SPK UPL 10/10
ELEVATION=185.17(NAVD88)
FIELD BOOK 671 PAGE 7
SET ON 11-10-2020

BENCH MARK: B
SPK UPL 10/16
ELEVATION=195.30(NAVD88)
FIELD BOOK 671 PAGE 7
SET ON 11-10-2020

CONCORD STREET
PUBLIC - 49.5'WIDE

FEMA ZONE "X" (SHADED)
FEMA ZONE "AE" LINE
ZONE"X" SHADED
ZONE"AE" (183)
100-FOOT BUFFER ZONE
25-FOOT NO DISTURB ZONE
APPROXIMATE LOCATION OF 200-FOOT OF RIVERFRONT
APPROXIMATE LOCATION OF BORDERING VEGETATED WETLAND
ISOLATED VEGETATED WETLAND AREA 3,779 S.F.±
WETLAND MASSGIS LINE
APPROXIMATE LOCATION OF MAIN
BANK TO INTERMITTENT STREAM
LOCATION OF BORDERING VEGETATED WETLAND

GRAPHIC SCALE
20 10 0 20 40 60
SCALE: 1"=20'

90 Concord Street, Ashland, MA

FLANSBURGH
77 NORTH WASHINGTON STREET
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FLANSBURGH.COM

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Georgetown, MA 01833

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Hazardous Materials
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Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

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2	09/01/2021	Resubmittal #2
3	09/23/2021	Final Permit Set

REVISIONS

No.	Date	Note

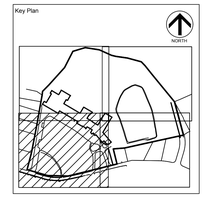
ISSUE

Stamp

COMMONWEALTH OF MASSACHUSETTS
MARK E. VIOLETTE
#40768
REGISTERED PROFESSIONAL ENGINEER
Mark Violette
9/21/21

For Permitting Only

Key Plan



Sheet Title

Drawn By	Project ID 1914.00
Reviewed By	Scale
Issue Date 09.23.2021	Plot Date 09.23.2021
Sheet No.	

EX1.0

Nitsch Project #19008

ASHLAND, MASSACHUSETTS Incorporated 1846

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

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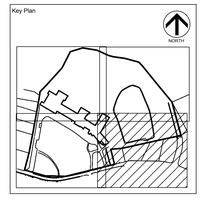

Sheet Title

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Sheet No.

EX2.0

Nitsch Project #19008

UTILITY INFORMATION STATEMENT

1. THE SUB-SURFACE UTILITY INFORMATION SHOWN HEREON IS COMPILED BASED ON FIELD SURVEY INFORMATION, RECORD INFORMATION AS SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES, AND PLAN INFORMATION SUPPLIED BY THE CLIENT, IF ANY; THEREFORE WE CANNOT GUARANTEE THE ACCURACY OF SAID COMPILED SUB-SURFACE INFORMATION TO ANY CERTAIN DEGREE OF STATED TOLERANCE. ONLY PHYSICALLY LOCATED SUB-SURFACE UTILITY FEATURES FALL WITHIN NORMAL STANDARD OF CARE ACCURACIES.

2. THE LOCATIONS OF UNDERGROUND PIPES, CONDUITS, AND STRUCTURES HAVE BEEN DETERMINED FROM SAID INFORMATION, AND ARE APPROXIMATE ONLY. COMPILED LOCATIONS OF ANY UNDERGROUND STRUCTURES, NOT VISIBLY OBSERVED AND LOCATED, CAN VARY FROM THEIR ACTUAL LOCATIONS.

3. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED.

4. THE STATUS OF UTILITIES, WHETHER ACTIVE, ABANDONED, OR REMOVED, IS AN UNKNOWN CONDITION AS FAR AS OUR COMPILATION OF THIS INFORMATION.

5. IT IS INCUMBENT UPON INDIVIDUALS USING THIS INFORMATION TO UNDERSTAND THAT COMPILING UTILITY INFORMATION IS NOT EXACT, AND IS SUBJECT TO CHANGE BASED UPON VARYING PLAN INFORMATION RECEIVED AND ACTUAL LOCATIONS.

6. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS, THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER MATTERS.

7. THE PROPER UTILITY ENGINEERING/COMPANY SHOULD BE CONSULTED AND THE ACTUAL LOCATIONS OF SUBSURFACE STRUCTURES SHOULD BE VERIFIED IN THE FIELD (V.I.F.) BEFORE PLANNING FUTURE CONNECTIONS. CONTACT THE DIG SAFE CALL CENTER AT 1-888-344-7233, SEVENTY-TWO HOURS PRIOR TO EXCAVATION, BLASTING, GRADING, AND/OR PAVING.

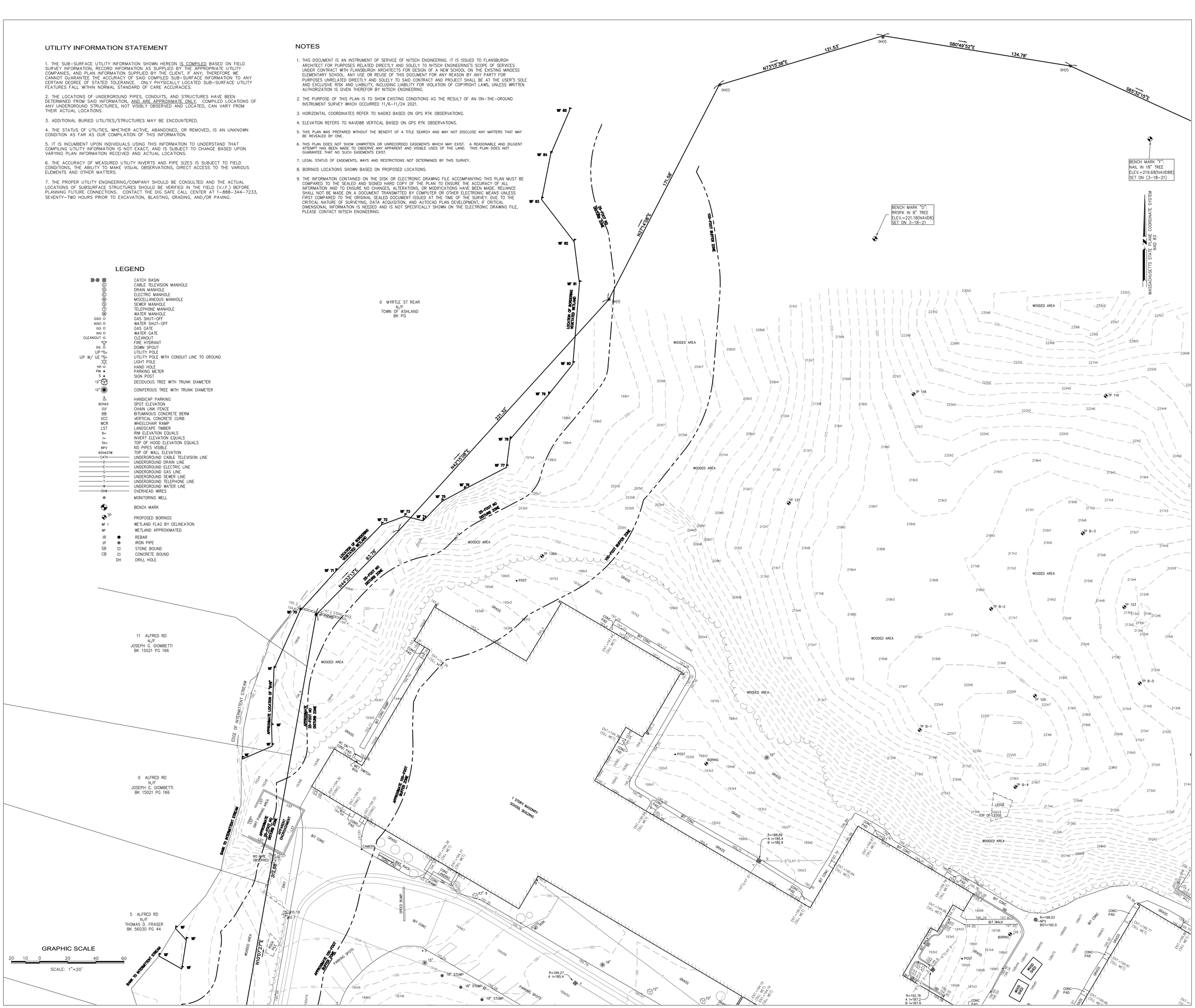
NOTES

1. THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF NITSCH ENGINEERING. IT IS ISSUED TO FLANSBURGH ARCHITECT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO NITSCH ENGINEERING'S SCOPE OF SERVICES UNDER CONTRACT WITH FLANSBURGH ARCHITECTS FOR DESIGN OF A NEW SCHOOL ON THE EXISTING MINDESS ELEMENTARY SCHOOL. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT AND PROJECT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN AUTHORIZATION IS GIVEN THEREFOR BY NITSCH ENGINEERING.
2. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS AS THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY WHICH OCCURRED 11/6-11/24 2021.
3. HORIZONTAL COORDINATES REFER TO NAD83 BASED ON GPS RTK OBSERVATIONS.
4. ELEVATION REFERS TO NAVD88 VERTICAL BASED ON GPS RTK OBSERVATIONS.
5. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT DISCLOSE ANY MATTERS THAT MAY BE REVEALED BY ONE.
6. THIS PLAN DOES NOT SHOW UNWRITTEN OR UNRECORDED EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT AND VISIBLE USES OF THE LAND. THIS PLAN DOES NOT GUARANTEE THAT NO SUCH EASEMENTS EXIST.
7. LEGAL STATUS OF EASEMENTS, WAYS AND RESTRICTIONS NOT DETERMINED BY THIS SURVEY.
8. BORINGS LOCATIONS SHOWN BASED ON PROPOSED LOCATIONS.
9. THE INFORMATION CONTAINED ON THE DISK OR ELECTRONIC DRAWING FILE ACCOMPANYING THIS PLAN MUST BE COMPARED TO THE SEALED AND SIGNED HARD COPY OF THE PLAN TO ENSURE THE ACCURACY OF ALL INFORMATION AND TO ENSURE NO CHANGES, ALTERATIONS, OR MODIFICATIONS HAVE BEEN MADE. RELIANCE SHALL NOT BE MADE ON A DOCUMENT TRANSMITTED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS FIRST COMPARED TO THE ORIGINAL SEALED DOCUMENT ISSUED AT THE TIME OF THE SURVEY. DUE TO THE CRITICAL NATURE OF SURVEYING, DATA ACQUISITION, AND AUTOCAD PLAN DEVELOPMENT, IF CRITICAL DIMENSIONAL INFORMATION IS NEEDED AND IS NOT SPECIFICALLY SHOWN ON THE ELECTRONIC DRAWING FILE, PLEASE CONTACT NITSCH ENGINEERING.

LEGEND

	CATCH BASIN
C	CABLE TELEVISION MANHOLE
D	DRAIN MANHOLE
E	ELECTRIC MANHOLE
M	MISCELLANEOUS MANHOLE
S	SEWER MANHOLE
T	TELEPHONE MANHOLE
W	WATER MANHOLE
GSO O	GAS SHUT-OFF
WSO O	WATER SHUT-OFF
GG O	GAS GATE
WG O	WATER GATE
CLEANOUT O	CLEANOUT
DS O	DOWN SPOUT
UP	UTILITY POLE
UP W/ UE	UTILITY POLE WITH CONDUIT LINE TO GROUND
	LIGHT POLE
HH	HAND HOLE
PM	PARKING METER
S	SIGN POST
12"	DECIDUOUS TREE WITH TRUNK DIAMETER
12"	CONIFEROUS TREE WITH TRUNK DIAMETER
	HANDICAP PARKING
60'x43	SPOT ELEVATION
CLF	CHAIN LINK FENCE
BB	BITUMINOUS CONCRETE BERM
VCC	VERTICAL CONCRETE CURB
WCR	WHEELCHAIR RAMP
LST	LANDSCAPE TIMBER
R=	RIM ELEVATION EQUALS
I=	INVERT ELEVATION EQUALS
TH=	TOP OF HOOD ELEVATION EQUALS
NPV	NO PIPES VISIBLE
60'x43TW	TOP OF WALL ELEVATION
CATV	UNDERGROUND CABLE TELEVISION LINE
D	UNDERGROUND DRAIN LINE
E	UNDERGROUND ELECTRIC LINE
G	UNDERGROUND GAS LINE
S	UNDERGROUND SEWER LINE
T	UNDERGROUND TELEPHONE LINE
W	UNDERGROUND WATER LINE
OHW	OVERHEAD WIRES
	MONITORING WELL
	BENCH MARK
TP	PROPOSED BORINGS
WF 1	WETLAND FLAG BY DELINEATION
WF	WETLAND APPROXIMATED
IR	REBAR
IP	IRON PIPE
SB	STONE BOUND
CB	CONCRETE BOUND
DH	DRILL HOLE

GRAPHIC SCALE
20 10 0 20 40 60
SCALE: 1"=20'



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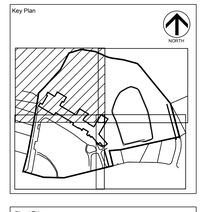
Stamp

COMMONWEALTH OF MASSACHUSETTS
MARK E. VIOLETTE
#40768
REGISTERED LAND SURVEYOR
Mark E. Violette
4/21/21

For Permitting Only

Key Plan



Sheet Title

Drawn By	Project ID 1914.00
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Issue Date 09.23.2021	Plot Date 09.23.2021
Sheet No.	

EX3.0

Nitsch Project #19058

GRAPHIC SCALE
20 10 0 20 40 60
SCALE: 1"=20'

0 MYRTLE ST REAR
N/F
TOWN OF ASHLAND
BK PG

FISKE HILL ESTATES
DRAIN EASEMENT LOT
OWNER UNKNOWN

10 GOODNOW AVE
N/F VLADIMIR CHUMAKOV AND
ELENA FOMITCHEVA
BK 34126 PG 0177

6 GOODNOW AVE
N/F
RANDY D. & ANNE G. KRAUSS
BK 48948 PG 379

6 FISKE RD
N/F
DAVID C. DEGEORGE
BK 50359 PG 26

7 FISKE RD
N/F
JEREMY RAMSEY
BK 49868 PG 554

62 FOUNTAIN ST
N/F
KATHARINE PHIPPS-RAM
BK 53983 PG 136

51 BELLVIEW HEIGHTS
N/F
STEVEN F. WHITTRIDGE
L. C. BK 1071 PG 8

N/F
FRANCISCO E &
BRENDA V. GONZALEZ
BK 59649 PG 254
46 BELLVIEW HEIGHTS

90 CONCORD ST
N/F
TOWN OF ASHLAND
BK 08063 PG 0449
PID 0140140018500000
28± ACRES (DEED)
26.74± (CALC.)

FISKE ROAD
BELLVIEW HEIGHTS
FISKE 40' WIDE

S65°32'15"E 124.71'
S75°40'53"E 42.14'
S81°41'53"E 110.64'
S74°46'23"E 135.66'
S43°35'23"E 50.00'
S39°35'41"E 105.59'
S39°03'08"E 144.52'
S39°17'02"E 32.29'
S39°17'02"E 809.93'
S39°17'02"E 82.72'
S15°03'45"E 323.03'

BENCH MARK "F":
NAIL IN 18" TREE
ELEV.=219.68(NAVD88)
SET ON (3-18-21)

BENCH MARK "E":
RRSPK IN 8" TREE
ELEVATION=220.26(NAVD88)
SET ON (3-18-21)

MASSACHUSETTS STATE PLANE COORDINATE SYSTEM
NAD 83

WF I-B1 IVF
WF I-B2
WF I-B3
WF I-B4
WF I-B5
WF I-B6
WF I-B7
WF I-B8
WF I-B9
WF I-B10
BORDERING VEGETATED WETLAND AREA 1,580 S.F.±
25-FOOT NO DISTURB ZONE
100-FOOT BUFFER ZONE

WF I-C1
WF I-C2
WF I-C3
WF I-C4
WF I-C5
WF I-C6
WF I-C7
WF I-C8
ISOLATED VEGETATED WETLAND AREA 1,550 S.F.±

APPROXIMATE LOCATION OF EROSION CONTROL BARRIER AND TREE PROTECTION FENCE
APPROXIMATE LOCATION OF DRAINAGE FLOW FROM FLOW OF WATER ORIGINATING FROM OUTWATER MARK "1.62"
APPROXIMATE LOCATION OF STORMWATER MARK "1.62"

INVERT NOT OBSERVABLE
INV=235.2
MET BENCH PAD W/ CONC. PAD
GRAVEL PATH
WOODED AREA
GRASS
FIELD
TREE LINE
STONE WALL
UTILITY EASEMENT
3"MD FENCE
CONC PAD
GRAVEL
ENT.=199.77 (SILL ME.T)
ENT.=199.81 (SILL ME.T)
ENT.=199.75 (SILL ME.T)
ENT.=199.75 (SILL ME.T)
R=197.86
A l=194.9
ELEV=197.09
R=233.17
A l=224.7 RC
B l=224.6 RC
R=231.29
TH=228.9
R=231.20
R=231.34
R=231.40
A l=228.2
B TH=228.4
TP 119
TP 120
TP 108
TP 123
TP 124
TP B-5
TP B-6
TP B-7
TP 126
TP 127
TP J10'S
TP F11
TP G13
TP F12
TP D11
TP E13
TP CL-RD
SB(I)
IR(I)
DH(I)
POST
BP
IRON PIPE
CB FOUND
SF FOUND
4"D
100-FOOT BUFFER ZONE

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Key Plan
NORTH

Sheet Title

Drawn By	Project ID 1914.00
Reviewed By	Scale
Issue Date 09.23.2021	Plot Date 09.23.2021
Sheet No.	**EX4.0**

Nitsch Project #1902

DEMOLITION NOTES:

1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED. INLET AND OUTLET PIPES PLUGGED. THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE LANDSCAPE ARCHITECT.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, AND THE CURRENT NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
2. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
4. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
5. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
6. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
8. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSIVE CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
9. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
10. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
11. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
12. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUDED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE TOWN OF ASHLAND CONSERVATION AGENT. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "PRELIMINARY EXISTING CONDITIONS PLAN", PREPARED BY NITSCH ENGINEERING, DATED NOVEMBER 13, 2019.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25017C0514F. THE SITE IS IN ZONE X AND ZONE AE.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
6. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
9. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
11. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
13. ELEVATIONS REFER TO NAVD88.
14. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE ASHLAND CONSERVATION COMMISSION (DEP #XXX-XXX).
15. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

UTILITY NOTES:

1. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY UTILITIES WITHIN THE JURISDICTION OF ANY NON-MUNICIPAL UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO ELECTRIC, TELEPHONE, AND/OR GAS. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 7 DAYS (OR PER UTILITY COMPANY REQUIREMENT) AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN UTILITIES SERVICING BUILDINGS AND FACILITIES WITHIN OR OUTSIDE THE PROJECT LIMIT UNLESS THE INTERRUPTION OF SERVICE IS COORDINATED WITH THE OWNER.
4. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY.
5. GAS, TELECOMMUNICATIONS AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING CONSULTANTS.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES.
7. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
8. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18 INCHES VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10-FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
11. ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
12. ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, CASTINGS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL GRADING AND PAVING CONSTRUCTION.
13. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.

PROPOSED LEGEND

- LIMIT OF WORK
- EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
- EROSION CONTROL BARRIER
- CONSTRUCTION FENCE
- W — DOMESTIC WATER PIPE
- FP — FIRE PROTECTION PIPE
- S — SANITARY SEWER PIPE
- D — STORM DRAIN PIPE
- G — GAS PIPE
- E — ELECTRIC DUCTBANK
- T/C — TELECOM DUCTBANK
- INLET PROTECTION
- ELEVATION CONTOURS
- MATCH LINE
- CENTERLINE
- CO — CLEANOUT
- AREA DRAIN
- ACCESS BASIN
- DRAIN MANHOLE
- WATER QUALITY STRUCTURE
- CATCH BASIN
- DOUBLE CATCH BASIN
- WATER QUALITY INLET
- SEWER MANHOLE
- TMH — TELECOM MANHOLE
- EMH — ELECTRIC MANHOLE
- WV — WATER VALVE
- HYD — FIRE HYDRANT

ABBREVIATIONS

AB	ACCESS BASIN
AD	AREA DRAIN
BC	BOTTOM OF CURB ELEVATION
CB	CATCH BASIN
CCB	CAPE COD BERM
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CO	CLEANOUT
COP	CENTER OF PIPE
CP	CARRIER PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON PIPE CEMENT LINED
DMH	DRAIN MANHOLE
EMH	ELECTRIC HANDHOLE
EJ	EXPANSION JOINT
EMH	ELECTRIC MANHOLE
FD	FOUNDATION DRAIN
FFE	FINISHED FLOOR ELEVATION
HP	HIGH POINT
HYD	FIRE HYDRANT
INV	INVERT ELEVATION
LF	LINEAR FEET
LOW	LIMIT OF WORK
LP	LOW POINT
LW	LAB WASTE
M&P	MAINTAIN AND PROTECT
NIC	NOT IN CONTRACT
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
PD	PERIMETER DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE OF
R&S	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RIM	RIM ELEVATION
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TC	TOP OF CURB ELEVATION
THH	TELECOM HANDHOLE
TMH	TELECOM MANHOLE
TOP	TOP OF PIPE
TOD	TOP OF DUCT BANK
TYP	TYPICAL
UD	UNDERDRAIN
USD	UNDERSLAB DRAIN
VCC	VERTICAL GRANITE CURB
WQI	WATER QUALITY INLET
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE

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NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — JOSEPH E. GRUCCI — Civil — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

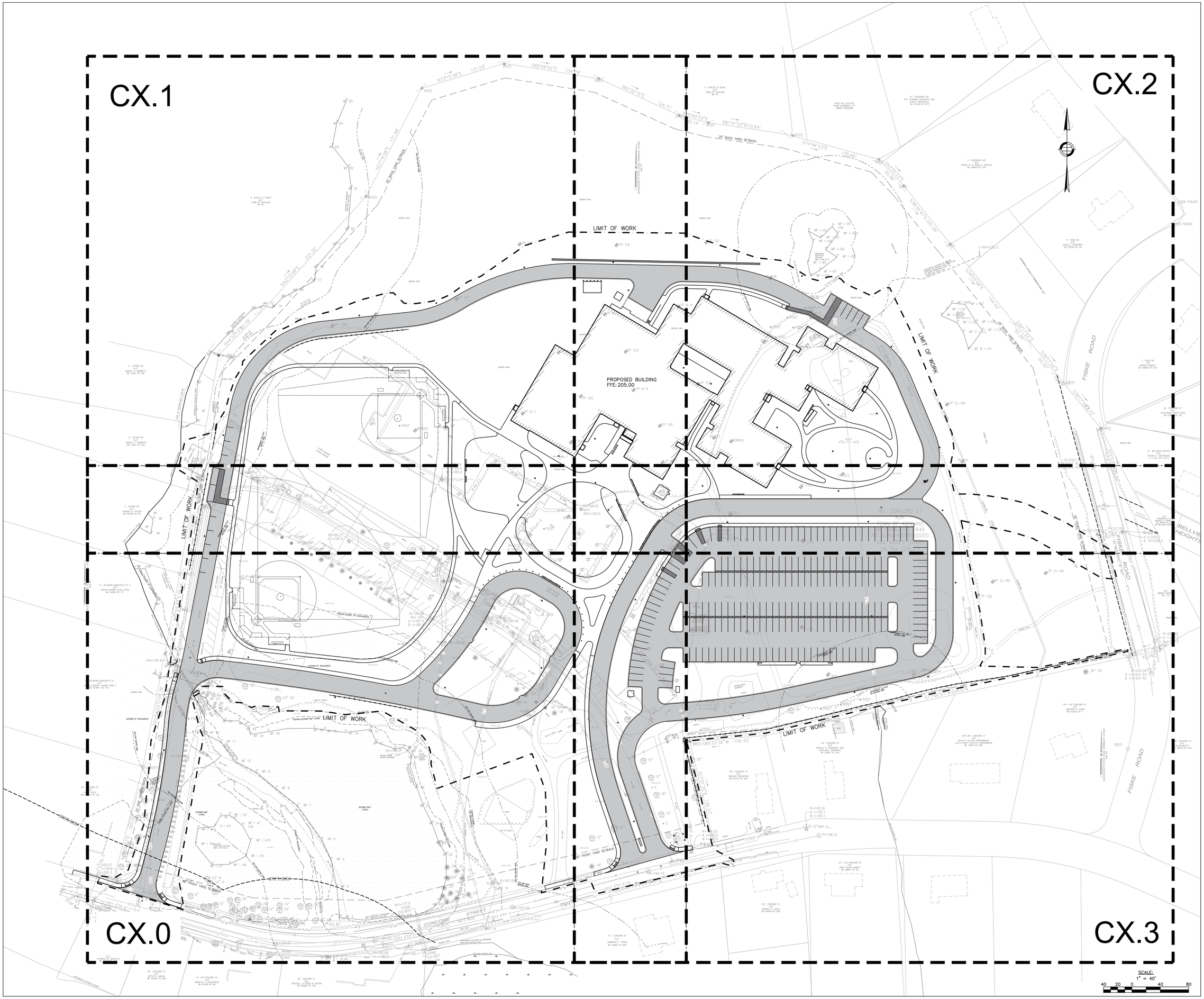
Civil Notes, Legends and Abbreviations

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: NOT TO SCALE
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

C1.0

Nitsch Project #13609



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Overall Site Plan

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NJB	1914.00
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BMV/JEG	1" = 40'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C1.1

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ALL PROPOSED DRAINAGE INLET STRUCTURES SHALL BE PROVIDED WITH INLET PROTECTION ONCE INSTALLED

SITE EROSION CONTROL LEGEND

STEEP SLOPE PROTECTION

SCALE: 1" = 20'

20 10 0 20 40

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Key Plan

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Sheet Title

Erosion and Sedimentation Control Plan

Drawn By	Project ID
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11/19/21

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Erosion and Sedimentation Control Plan

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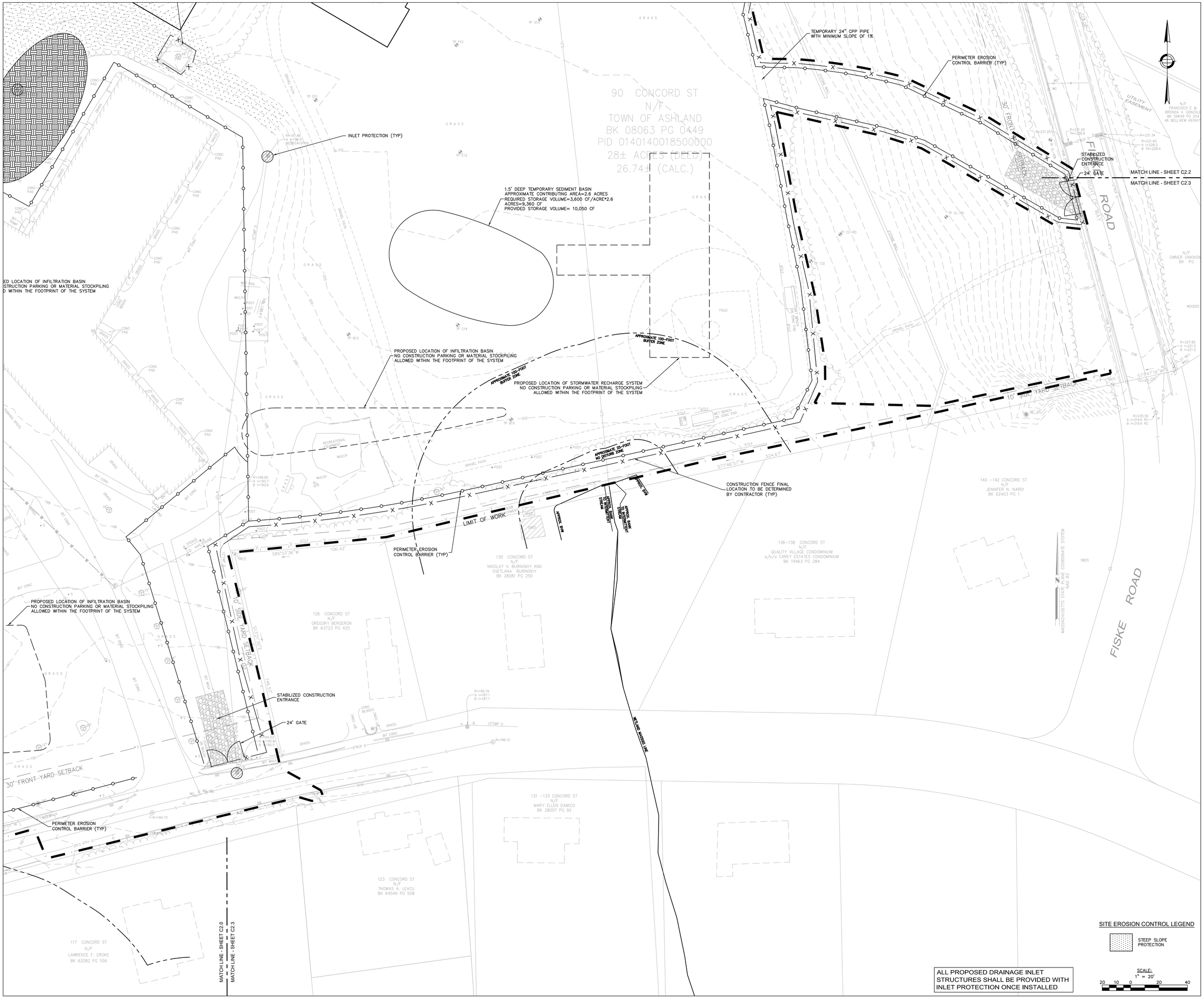
C2.2

Nitsch Project #13609



ASHLAND, MASSACHUSETTS
Incorporated 1846

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
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FLANSBURGH.COM

Owner Project Manager

Compass Project Management, Inc.
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Hazardous Materials
108 Myrtle Street, Suite 502
Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — JOSEPH E. GRUCCI — Civil — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Erosion and Sedimentation Control Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

C2.3

Nitsch Project #13609

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No.	Date	Note

REVISIONS

No.	Date	Note

ISSUE

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
FRED E. PELLUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Site Demolition Plan

Drawn By NJB	Project ID 13609
Reviewed By BMV/JEG	Scale 1" = 20'
Issue Date 09.23.2021	Plot Date 11.19.2021
Sheet No.	

C3.0

Nitsch Project #13609

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REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JAMES E. CASTELLUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Site Demolition Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C3.1

Nitsch Project #13609

MATCH LINE - SHEET C3.1

MATCH LINE - SHEET C3.2

0 MYRTLE ST REAR
N/F
TOWN OF ASHLAND
BK PG

FISKE HILL ESTATES
DRAIN EASEMENT LOT
OWNER UNKNOWN

10 GOODNOW AVE
N/F VLADIMIR CHUMAKOV AND
ELENA FOMITCHEVA
BK 34126 PG 0177

6 GOODNOW AVE
N/F
RANDY D. & ANNE G. KRAUSS
BK 48948 PG 379

6 FISKE RD
N/F
DAVID C. DEGEORGE
BK 50359 PG 26

7 FISKE RD
N/F
JEREMY RAMSEY
BK 49868 PG 554

51 BELLVIEW HEIGHTS
N/F
STEVEN F. WHITTRIDGE
L. C. BK 1071 PG 8

62 FOUR
N/F
KATHARINE
BK 5398

FISKE ROAD

S65°32'15"E 124.71'

S75°40'53"E 42.14'

S81°41'53"E 110.64'

S74°46'23"E 135.66'

S44°35'53"E 50.66'

S49°35'41"E 105.39'

S39°13'08"E 144.52'

S39°17'20"E 32.29'

S39°17'20"E 60.53'

S39°17'20"E 80.72'

20' BACK YARD SETBACK

30' FRONT YARD SETBACK

MASSACHUSETTS STATE PLANE COORDINATE SYSTEM
NAD 83

LIMIT OF WORK

WF I-B1
IVW
WF I-B10
WF I-B2
WF I-B3
WF I-B4
WF I-B9
WF I-B8
WF I-B5
WF I-B7
WF I-B6
BORDERING VEGETATED WETLAND AREA 1,580 S.F.±
25'-FOOT NO DISTURB ZONE
25'-FOOT NO DISTURB ZONE

WF I-C8
WF I-C7
WF I-C9
WF I-C1
ISOLATED VEGETATED WETLAND AREA 1,200 S.F.±
WF I-C2
WF I-C6
WF I-C5
WF C I-C3
WF B I-C4

APPROXIMATE LOCATION OF EROSION EVIDENCE ON WALKING PATH FROM FLOW OF WATER ORIGINATING FROM STORMWATER BASIN "1EX"

APPROXIMATE LOCATION OF STORMWATER BASIN "1EX"

100-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

INVERT NOT OBSERVABLE

WOODED AREA

GRASS

FIELD

GRAVEL PATH

TP 119
TP 123
TP 124
TP 125
TP 126
TP 127
TP F11
TP 108
TP 109
TP D13
TP F12
TP D11
TP E13
TP 131
TP B-1
TP B-3
TP B-5
TP B-6

SBO

INV=235.2

R=233.17
R=224.7 RC
R=224.6 RC

R=231.29
R=228.9

R=198.03
INV=

R=197.86
L=A=109.09

MATCH LINE - SHEET C3.2

MATCH LINE - SHEET C3.3

TPRINT

M&P EXISTING MEMORIAL SITE DURING CONSTRUCTION. PROVIDE FENCING AND EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION

PROPOSED BUILDING FOOTPRINT

TEMPORARY 24" CPP PIPE WITH MINIMUM SLOPE OF 1%

R&D CATCH BASIN AND ASSOCIATED PIPING

R&D CATCH BASIN AND ASSOCIATED PIPING

R&D GRAVEL PATH (TYP.)

90 CONCORD ST
N/F
TOWN OF ASHLAND
BK 08063 PG 0449
PID 0140140018500000
28± ACRES (DEED)
26.74± (CALC.)

SITE DEMOLITION LEGEND

R&D EXISTING BUILDING SEE ARCHITECTURAL PLANS FOR DETAILS

R&D ASPHALT PAVEMENT, CONCRETE PAVEMENT, AND CURB MATERIALS

SCALE:
1" = 20'
20 10 0 20 40

ASHLAND, MASSACHUSETTS
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Hingham, Massachusetts 02043

No.	Date	Note
REVISIONS		

No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
Robert E. Nitsch
Civil
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

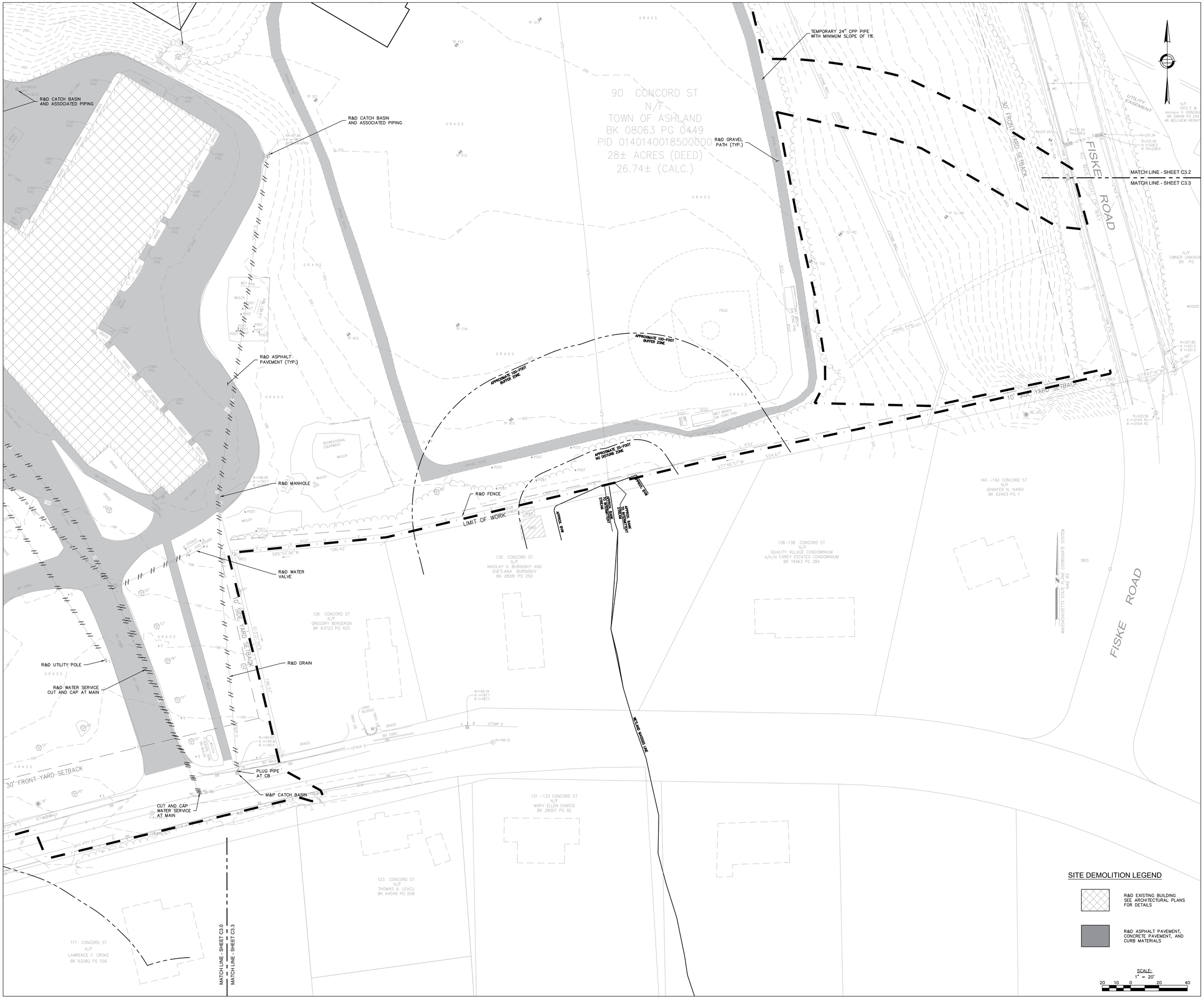
Site Demolition Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

C3.2

Nitsch Project #13609



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REVISIONS		
No.	Date	Note
ISSUE		

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NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JAMES E. FERRUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Site Demolition Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C3.3

Nitsch Project #13609

90 Concord Street, Ashland, MA

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No.	Date	Note

REVISIONS

No.	Date	Note

ISSUE

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
FRED E. CIRULLO
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

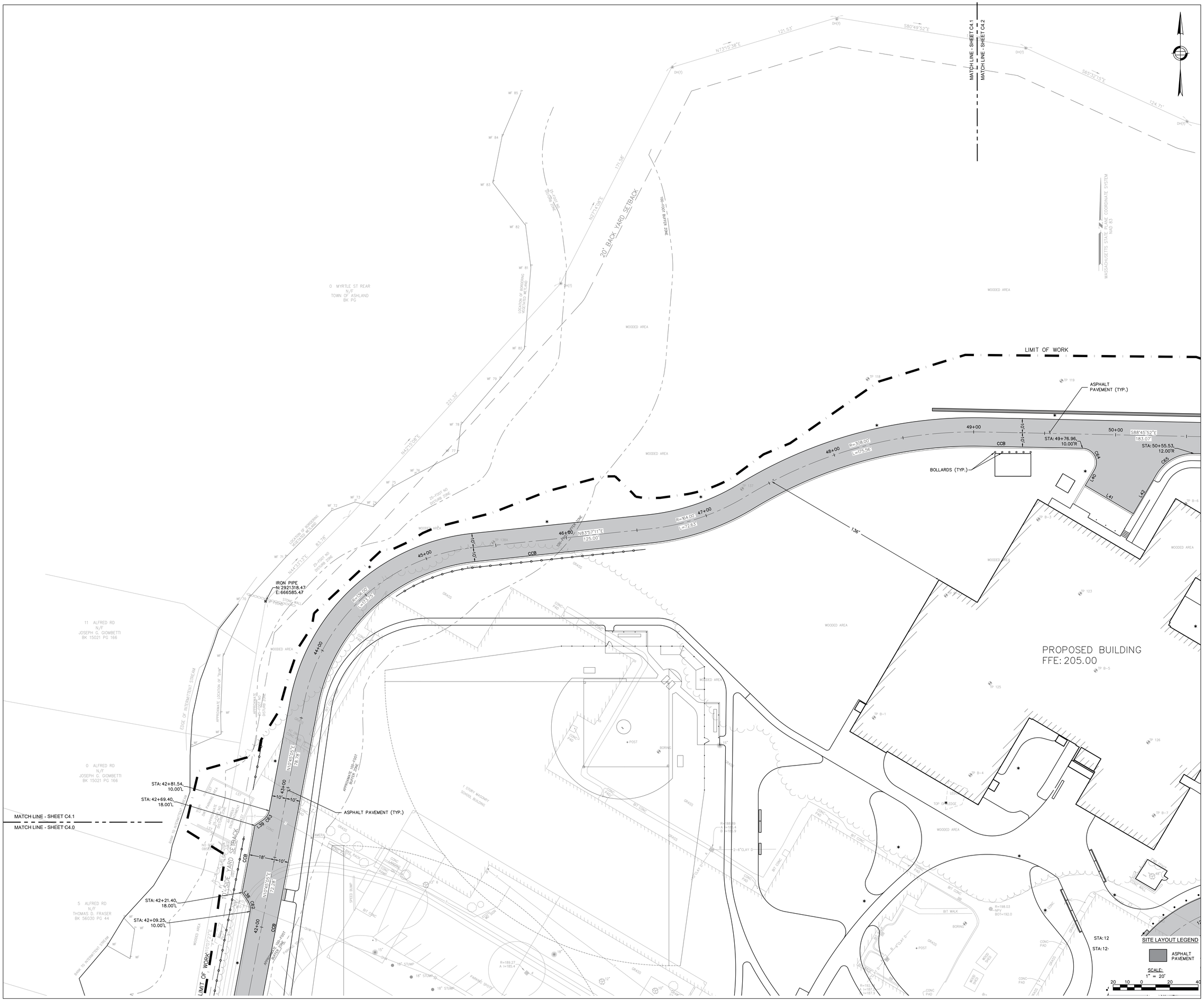
Roadway Layout and Materials Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C4.0

Nitsch Project #13609



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No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JACOB E. CASTELLUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Roadway Layout and Materials Plan

Drawn By NJB	Project ID 1914.00
Reviewed By BMV/JEG	Scale 1" = 20'
Issue Date 09.23.2021	Plot Date 11.19.2021

Sheet No.

C4.1

Nitsch Project #13609

MATCH LINE - SHEET C4.1
MATCH LINE - SHEET C4.2

0 MYRTLE ST REAR
N/F
TOWN OF ASHLAND
BK PG

FISKE HILL ESTATES
DRAIN EASEMENT LOT
OWNER UNKNOWN

10 GOODNOW AVE
N/F VLADIMIR CHUMAKOV AND
ELENA FOMITCHEVA
BK 34126 PG 0177

6 GOODNOW AVE
N/F
RANDY D. & ANNE G. KRAUSS
BK 48948 PG 379

6 FISKE RD
N/F
DAVID C. DEGEORGE
BK 50359 PG 26

7 FISKE RD
N/F
JEREMY RAMSEY
BK 49868 PG 554

51 BELLVIEW HEIGHTS
N/F
STEVEN F. WHITTRIDGE
L. C. BK 1071 PG 8

N/F
FRANCISCO E. &
BRENDA V. GONZALEZ
BK 59649 PG 254

62 FOUR
N/
KATHARINE
BK 5398

S65°32'15"E 124.71'
S75°40'53"E 42.14'
S81°41'53"E 110.64'
S74°46'23"E 135.66'
S44°35'23"E 50.96'
S49°35'41"E 105.39'
S35°31'08"E 144.52'
S39°17'02"E 32.23'
S39°17'02"E 60.83'
S39°17'02"E 80.72'
S39°17'02"E 32.84'

20' BACK YARD SETBACK

MASSACHUSETTS STATE PLANE COORDINATE SYSTEM
NAD 83

WOODED AREA

LIMIT OF WORK

TP 119

INSTALL 4 STONE BOUNDS WITH CONSERVATION COMMISSION EMBLEM INSTALLED ON TOP OF BOUND ALONG 25' NO DISTURB OR LOW, WHICHEVER IS CLOSER TO THE RESOURCE AREA

BORDERING VEGETATED WETLAND AREA 1,580 S.F.±

ISOLATED VEGETATED WETLAND AREA 1,550 S.F.±

25'-FOOT NO DISTURB ZONE

APPROXIMATE LOCATION OF DIVISION EVIDENCE ON WALKING PATH FROM STORMWATER BASIN "1A"

APPROXIMATE LOCATION OF STORMWATER BASIN "1A"

INV=235.2

50+00 S88°45'52"E 183.07'
STA: 49+76.96, 10.00'R
STA: 50+55.53, 12.00'R
51+00
52+00
53+00
54+00
55+00
56+00
R=264.86'
L=135.89'
R=88.00'
L=91.47'
R=27.00'
L=41.82'
R=27.00'
L=42.41'
R=88.00'
L=91.47'

CCB
C64
C65
C66
C67
C68
C69
L40
L41
L42
L43
L44
L45
L46

STA: 52+58.45, 10.00'L
STA: 52+60.45, 30.00'L
STA: 52+15.66, 12.00'R
STA: 52+49.14, 12.00'R
STA: 53+23.45, 30.00'L
STA: 53+26.45, 10.00'L
STA: 55+85.99, 10.00'L
STA: 8+67.68, 12.00'R
STA: 9+24.67, 12.00'R
STA: 56+44.21, 12.00'R
STA: 12+36.91, 12.04'L
STA: 12+68.38, 12.00'L

INVERT NOT OBSERVABLE

S59°23'07"E 32.23'
S59°23'07"E 60.28'
100'-FOOT BUFFER ZONE

PROPOSED BUILDING
FFE: 205.00

N: 2921104.20
E: 667519.17

139.76'
N90°00'00"W
136.00'
N90°00'00"W

VGC
CCB
L1
L2
L3
L4
L5
L6
C1
C2
C3
C4
C5
C6

CONCORD ST
N/F
TOWN OF ASHLAND
BK 08063 PG 0449
PID 01401400180000000
28± ACRES (DEED)
26.74± (CALC.)

FISKE ROAD

20' BACK YARD SETBACK

30' FRONT YARD SETBACK

UTILITY EASEMENT

40' WIDE

MATCH LINE - SHEET C4.2
MATCH LINE - SHEET C4.3

SITE LAYOUT LEGEND

ASPHALT PAVEMENT

SCALE:
1" = 20'

20 10 0 20 40

SITE LAYOUT LEGEND

ASPHALT PAVEMENT

ASHLAND, MASSACHUSETTS
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REVISIONS		

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ISSUE		

Stamp

NITSCH PROJECT #13609
COMMONWEALTH OF MASSACHUSETTS
JOSEPH T. CALUCCI
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/1/21

Final Permitting Set

Key Plan

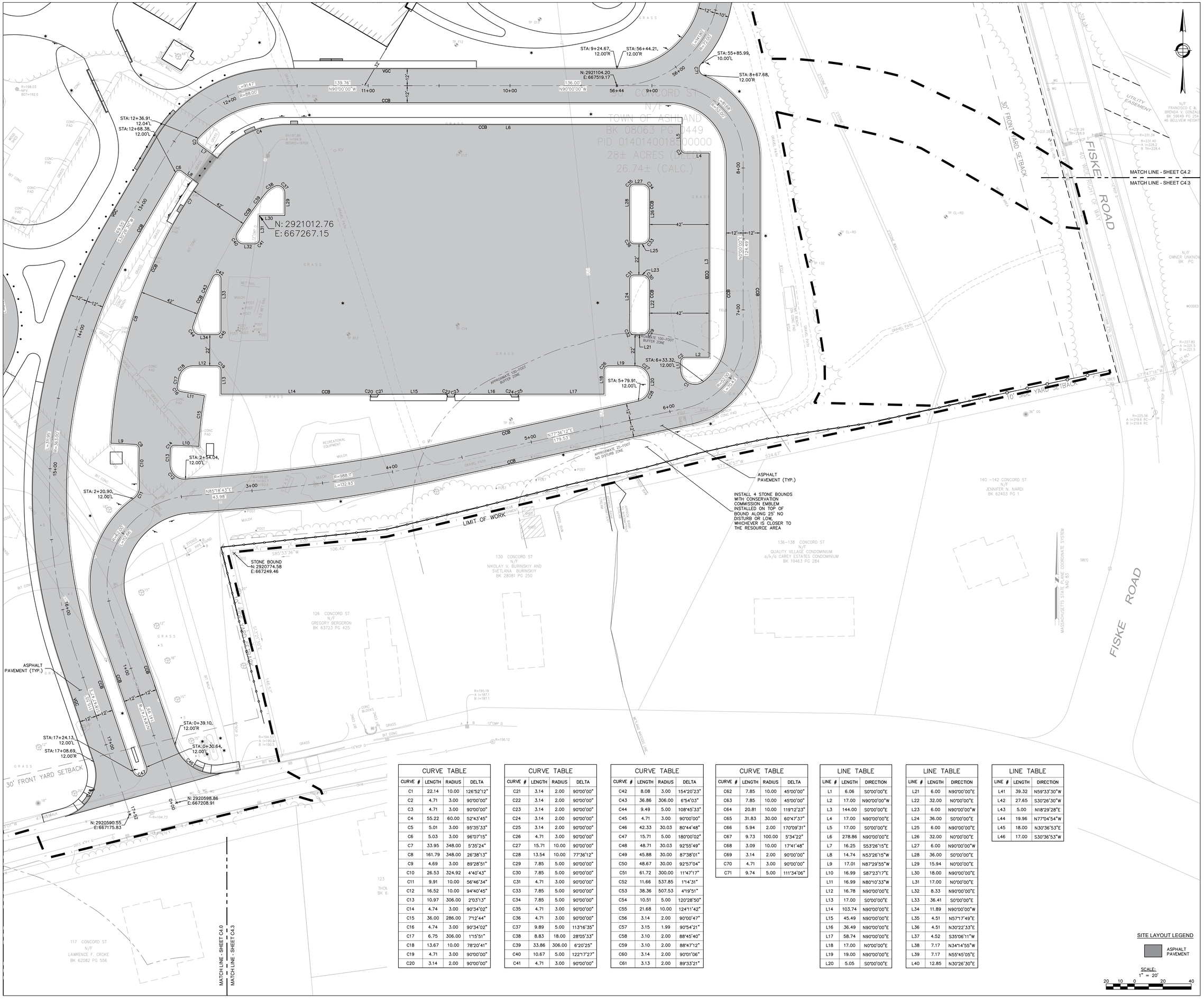
NORTH

Sheet Title

Roadway Layout and Materials Plan

Drawn By	Project ID 1914.00
Reviewed By NJB	Scale
Issue Date 09/03/2021	Plot Date 11/02/2021
Sheet No. C4.2	

Nitsch Project #13609



CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	22.14	10.00	126°52'12"
C2	4.71	3.00	90°00'00"
C3	4.71	3.00	90°00'00"
C4	55.22	60.00	52°43'45"
C5	5.01	3.00	95°35'33"
C6	5.03	3.00	96°07'15"
C7	33.95	348.00	5°35'24"
C8	161.79	348.00	26°38'13"
C9	4.69	3.00	89°28'51"
C10	26.53	324.92	4°40'43"
C11	9.91	10.00	56°46'34"
C12	16.52	10.00	94°40'45"
C13	10.97	306.00	2°03'13"
C14	4.74	3.00	90°34'02"
C15	36.00	286.00	7°12'44"
C16	4.74	3.00	90°34'02"
C17	6.75	306.00	1°15'51"
C18	13.67	10.00	78°20'41"
C19	4.71	3.00	90°00'00"
C20	3.14	2.00	90°00'00"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C21	3.14	2.00	90°00'00"
C22	3.14	2.00	90°00'00"
C23	3.14	2.00	90°00'00"
C24	3.14	2.00	90°00'00"
C25	3.14	2.00	90°00'00"
C26	4.71	3.00	90°00'00"
C27	15.71	10.00	90°00'00"
C28	13.54	10.00	77°36'12"
C29	7.85	5.00	90°00'00"
C30	7.85	5.00	90°00'00"
C31	4.71	3.00	90°00'00"
C33	7.85	5.00	90°00'00"
C34	7.85	5.00	90°00'00"
C35	4.71	3.00	90°00'00"
C36	4.71	3.00	90°00'00"
C37	9.89	5.00	113°16'35"
C38	8.83	18.00	28°05'33"
C39	33.86	306.00	6°20'25"
C40	10.67	5.00	122°17'27"
C41	4.71	3.00	90°00'00"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C42	8.08	3.00	154°20'23"
C43	36.86	306.00	6°54'03"
C44	9.49	5.00	108°45'33"
C45	4.71	3.00	90°00'00"
C46	42.33	30.03	80°44'48"
C47	15.71	5.00	180°00'02"
C48	48.71	30.03	92°55'49"
C49	45.88	30.00	87°38'01"
C50	48.67	30.00	92°57'04"
C51	61.72	300.00	11°47'17"
C52	11.66	537.85	1°14'31"
C53	38.36	507.53	4°19'51"
C54	10.51	5.00	120°28'50"
C55	21.68	10.00	124°11'42"
C56	3.14	2.00	90°00'47"
C57	3.15	1.99	90°54'21"
C58	3.10	2.00	88°45'40"
C59	3.10	2.00	88°47'12"
C60	3.14	2.00	90°01'06"
C61	3.13	2.00	89°33'21"

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C62	7.85	10.00	45°00'00"
C63	7.85	10.00	45°00'00"
C64	20.81	10.00	119°12'23"
C65	31.83	30.00	60°47'37"
C66	5.94	2.00	170°09'31"
C67	9.73	100.00	5°34'22"
C68	3.09	10.00	17°41'48"
C69	3.14	2.00	90°00'00"
C70	4.71	3.00	90°00'00"
C71	9.74	5.00	111°34'06"

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	6.06	S0°00'00"E
L2	17.00	N90°00'00"W
L3	144.00	S0°00'00"E
L4	17.00	N90°00'00"E
L5	17.00	S0°00'00"E
L6	278.86	N90°00'00"E
L7	16.25	S53°26'15"E
L8	14.74	N53°26'15"W
L9	17.01	N87°29'55"W
L10	16.99	S87°23'17"E
L11	16.99	N80°10'33"W
L12	16.78	N90°00'00"E
L13	17.00	S0°00'00"E
L14	103.74	N90°00'00"E
L15	45.49	N90°00'00"E
L16	36.49	N90°00'00"E
L17	58.74	N90°00'00"E
L18	17.00	N0°00'00"E
L19	19.00	N90°00'00"E
L20	5.05	S0°00'00"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L21	6.00	N90°00'00"E
L22	32.00	N0°00'00"E
L23	6.00	N90°00'00"W
L24	36.00	S0°00'00"E
L25	6.00	N90°00'00"E
L26	32.00	N0°00'00"E
L27	6.00	N90°00'00"W
L28	36.00	S0°00'00"E
L29	15.94	N0°00'00"E
L30	18.00	N90°00'00"E
L31	17.00	N0°00'00"E
L32	8.33	N90°00'00"E
L33	36.41	S0°00'00"E
L34	11.89	N90°00'00"W
L35	4.51	N57°17'49"E
L36	4.51	N30°22'33"E
L37	4.52	S35°06'11"W
L38	7.17	N34°14'55"W
L39	7.17	N55°45'05"E
L40	12.85	N30°26'30"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L41	39.32	N59°33'30"W
L42	27.65	S30°26'30"W
L43	5.00	N18°29'28"E
L44	19.96	N77°04'54"W
L45	18.00	N30°36'53"E
L46	17.00	S30°36'53"W

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COMMONWEALTH OF MASSACHUSETTS
JAMES E. FERRUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Signage and Striping Plan

Drawn By NJB	Project ID 1914.00
Reviewed By BMV/JEG	Scale 1" = 20'
Issue Date 09.23.2021	Plot Date 11.19.2021

Sheet No.

C5.0

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11/19/21

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Key Plan

NORTH

Sheet Title

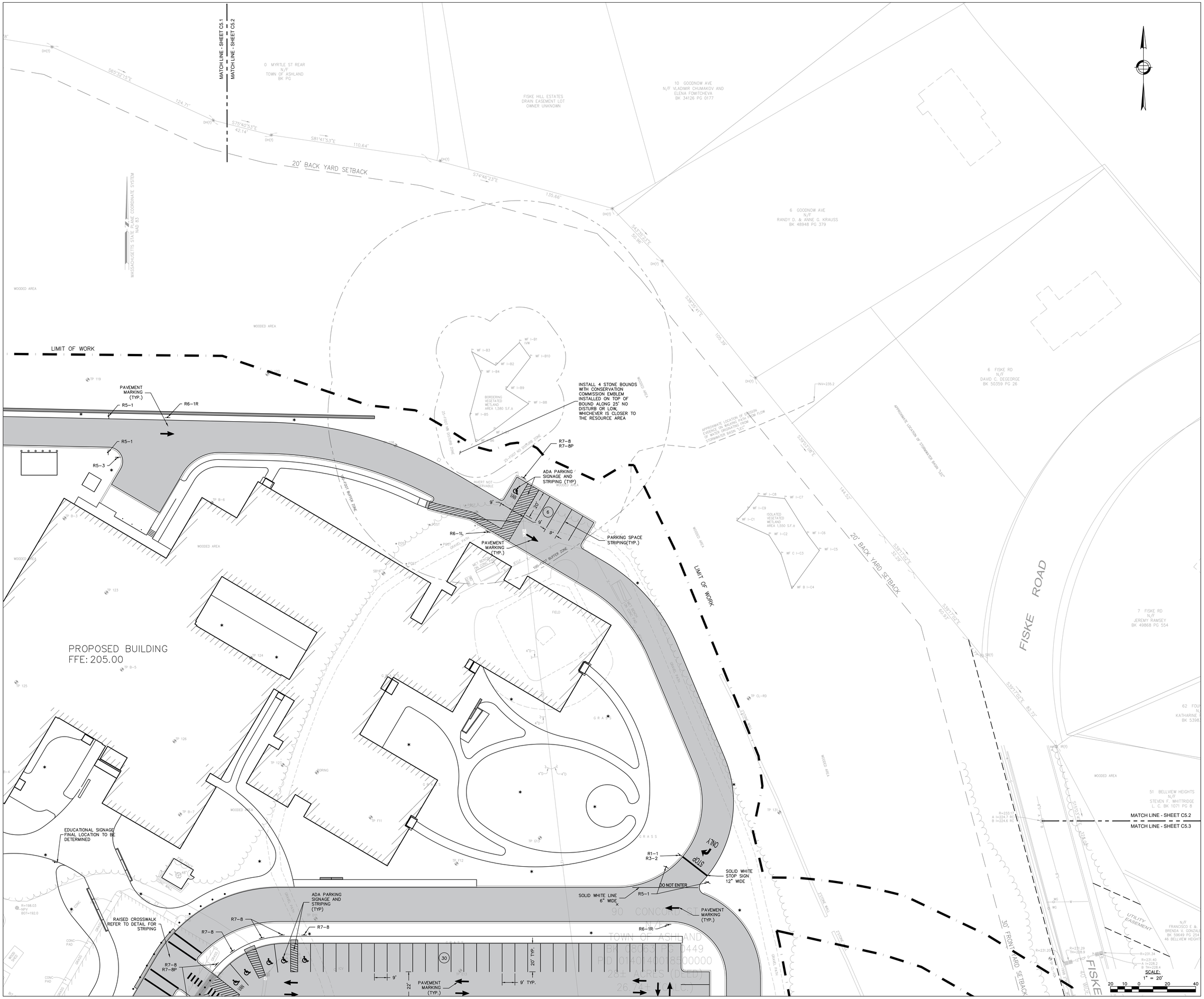
Signage and Striping Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C5.1

Nitsch Project #13609



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No. 48079
11/19/21

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Key Plan

NORTH

Sheet Title

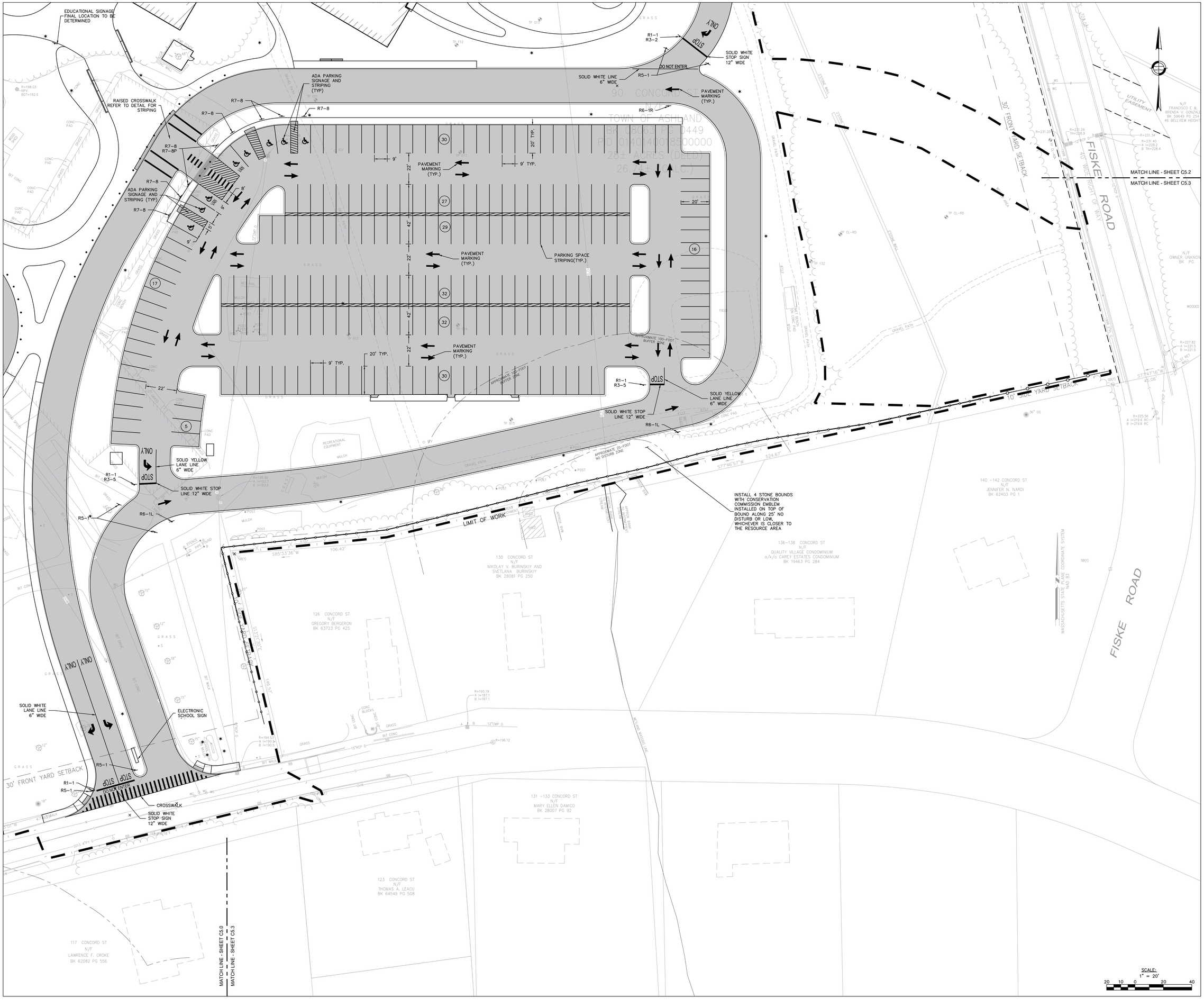
Signage and Striping Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C5.2

Nitsch Project #13609



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JACQUES E. ZENTLUCCI
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11/19/21

Final Permitting Set

Key Plan

NORTH

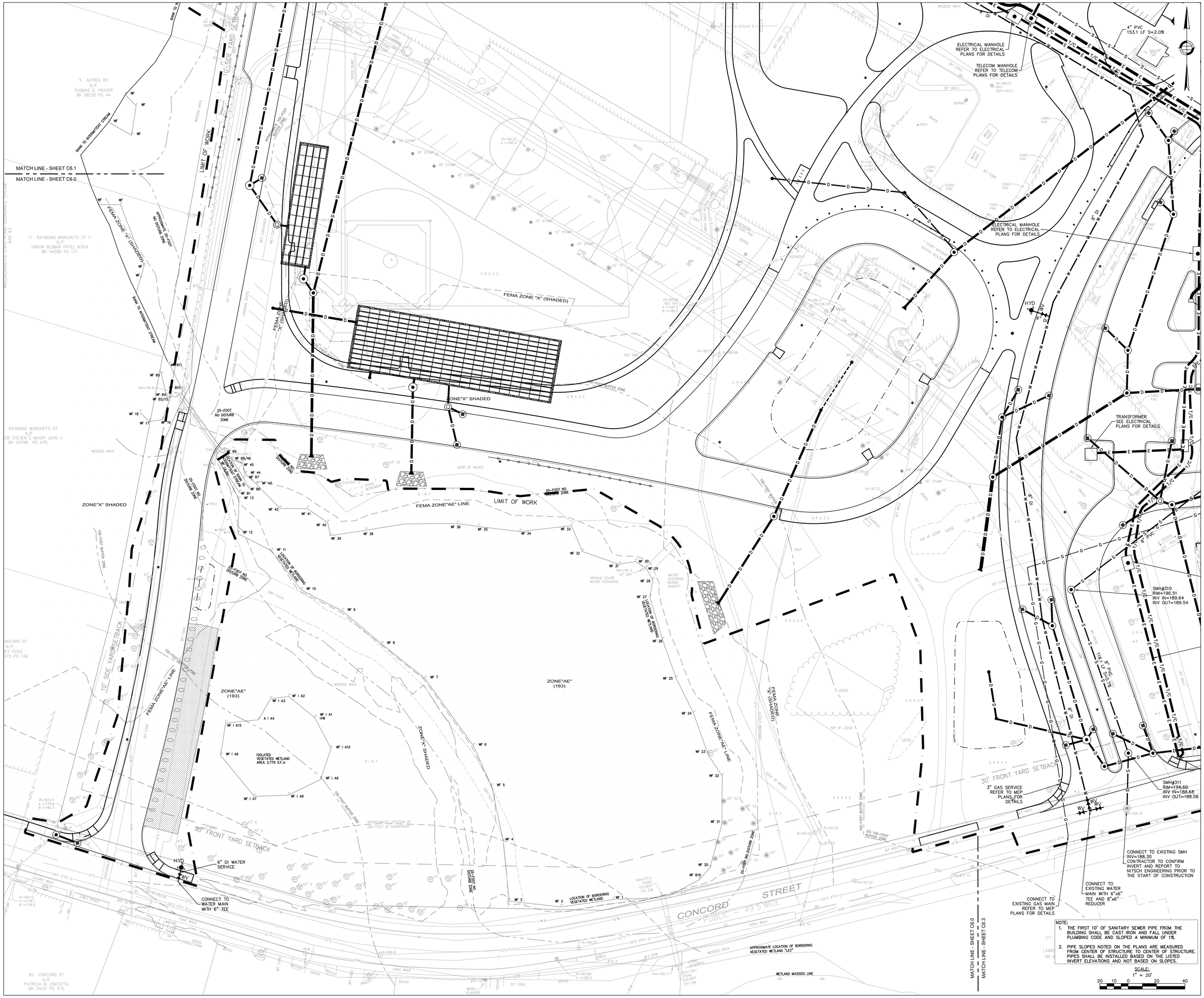
Sheet Title

Signage and Striping Plan

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	1" = 20'
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C5.3



NOTE:
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SCALE:
1" = 20'
20 10 0 20 40

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11/19/21

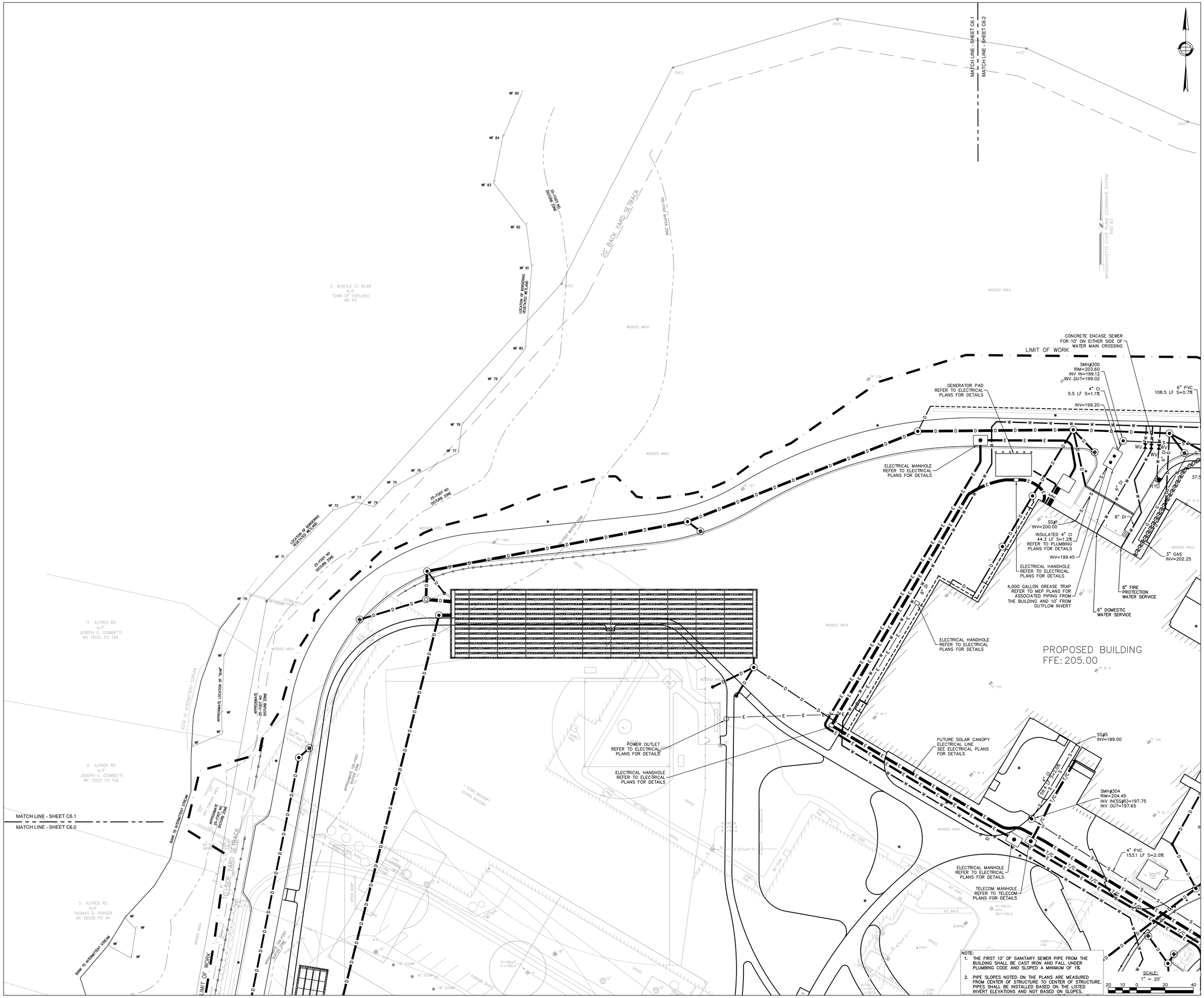
Final Permitting Set

Key Plan
NORTH

Sheet Title
Site Utility Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	C6.0

Nitsch Project #13609



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No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/11/21

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Key Plan

Sheet Title

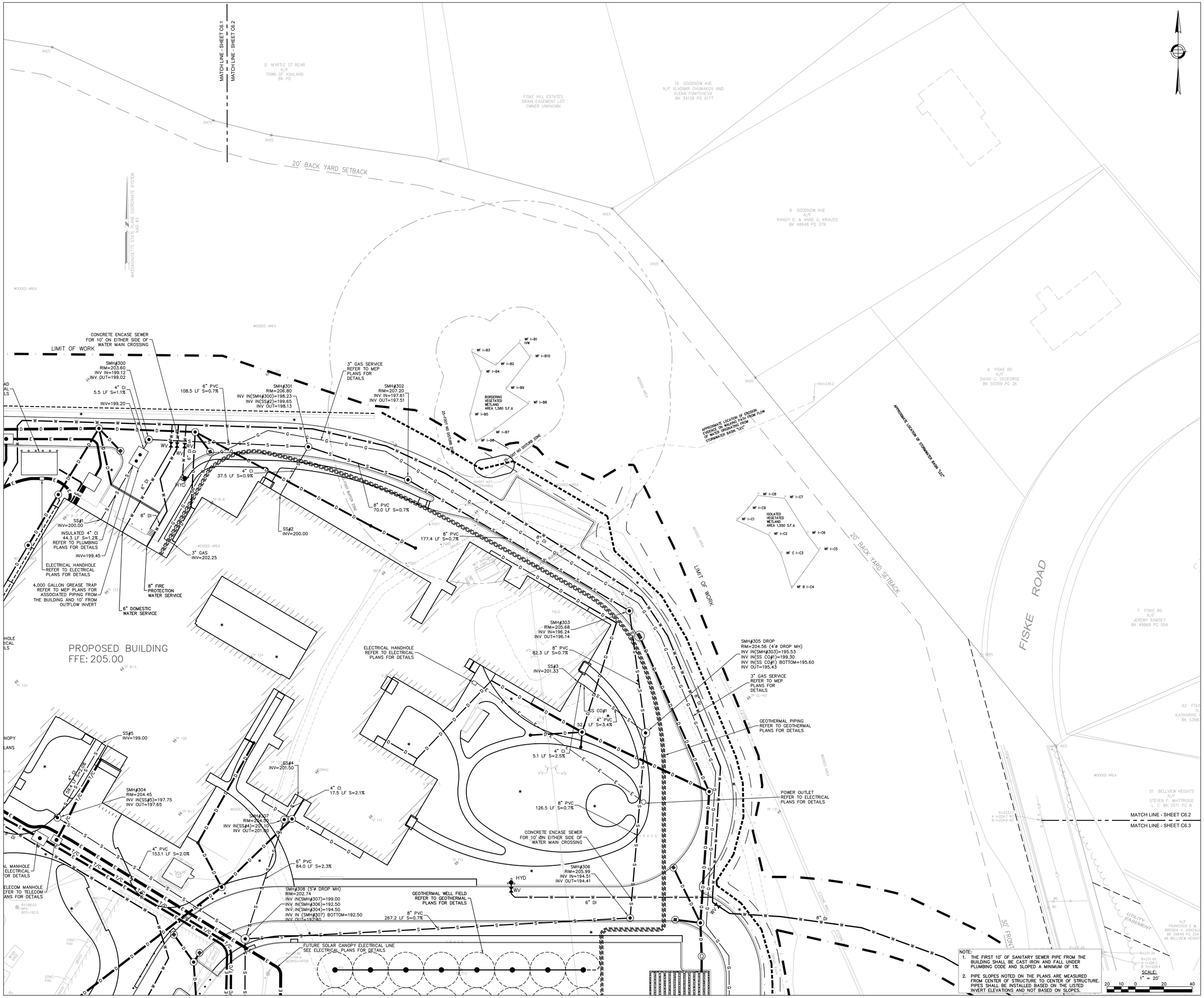
Site Utility Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

C6.1

Nitsch Project #13609



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No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

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Key Plan

Sheet Title

Site Utility Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

C6.2

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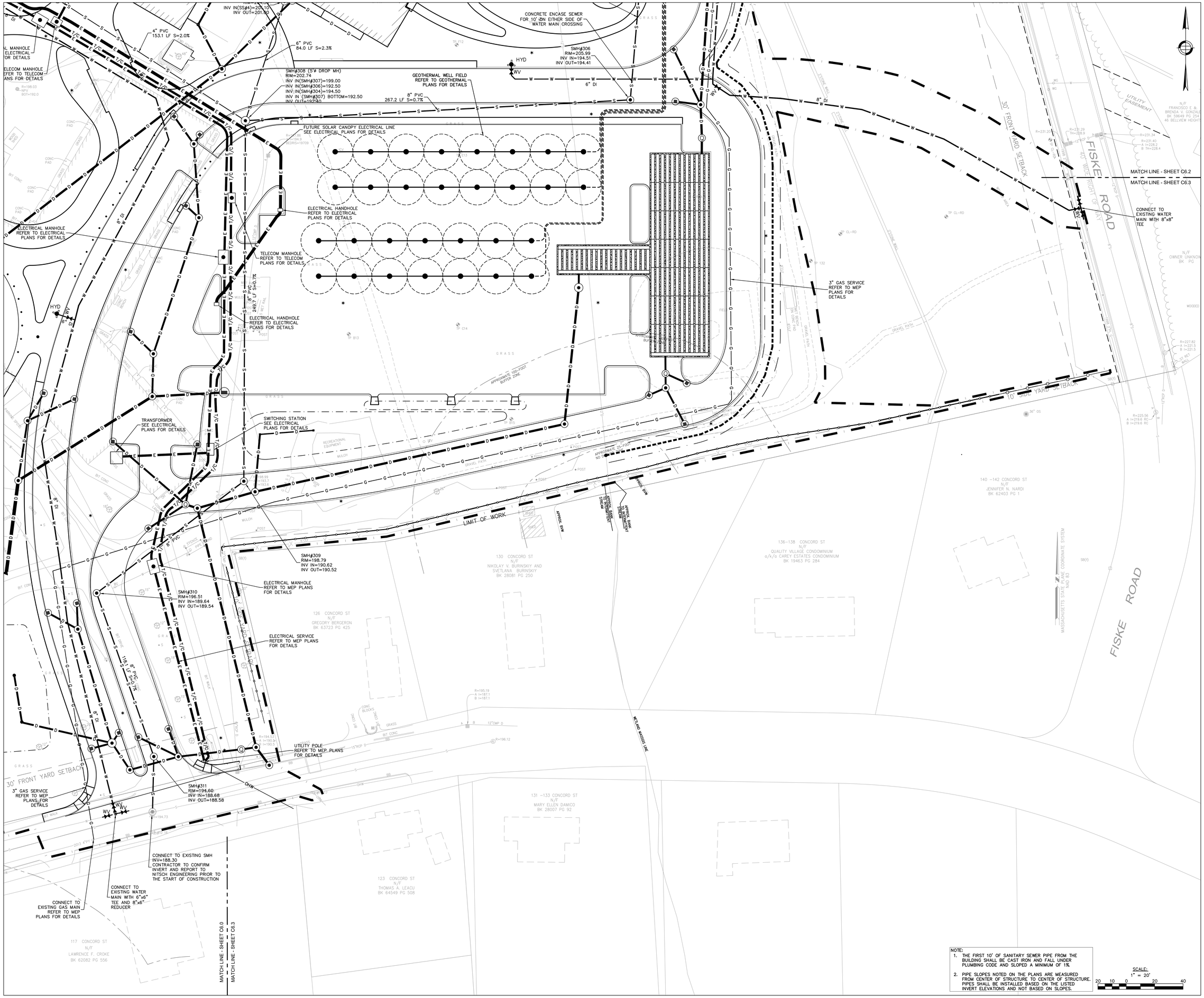

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SCALE:
1" = 20'
20 10 0 20 40

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Key Plan

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Site Utility Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

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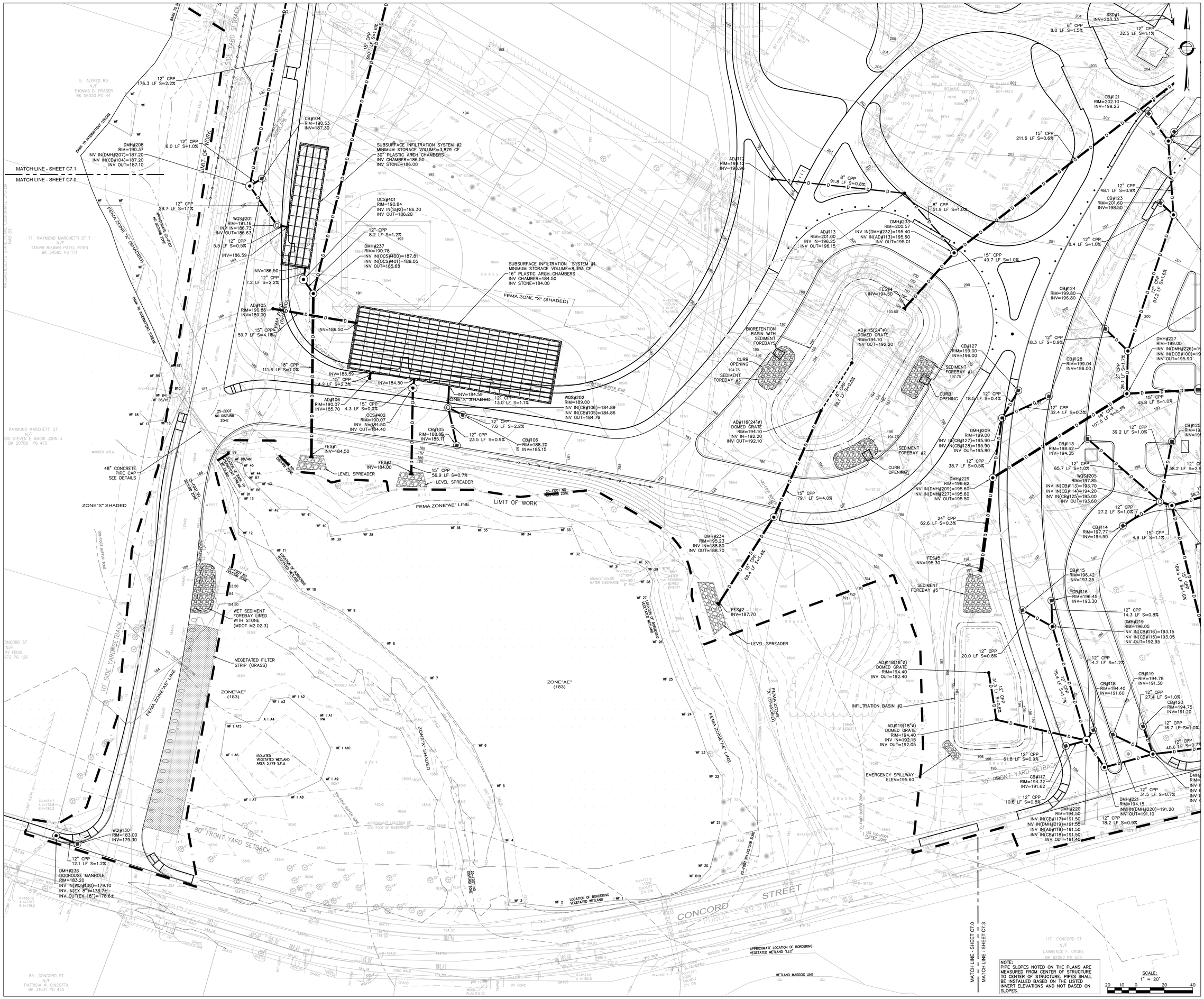

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Site Drainage Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	

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Crabtree McGrath Associates, Inc.
FF&E and Casework
161 West Main Street
Georgetown, MA 01833

Vanderweil Engineers, LLP
Mechanical Electrical Technology Plumbing & Fire Protection Engineers
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Boston, MA 02210

Fuss and O'Neill, Inc.
Hazardous Materials
108 Myrtle Street, Suite 502
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AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
		REVISIONS

No.	Date	Note
		ISSUE

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JOHN E. FIORILLUCCI
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

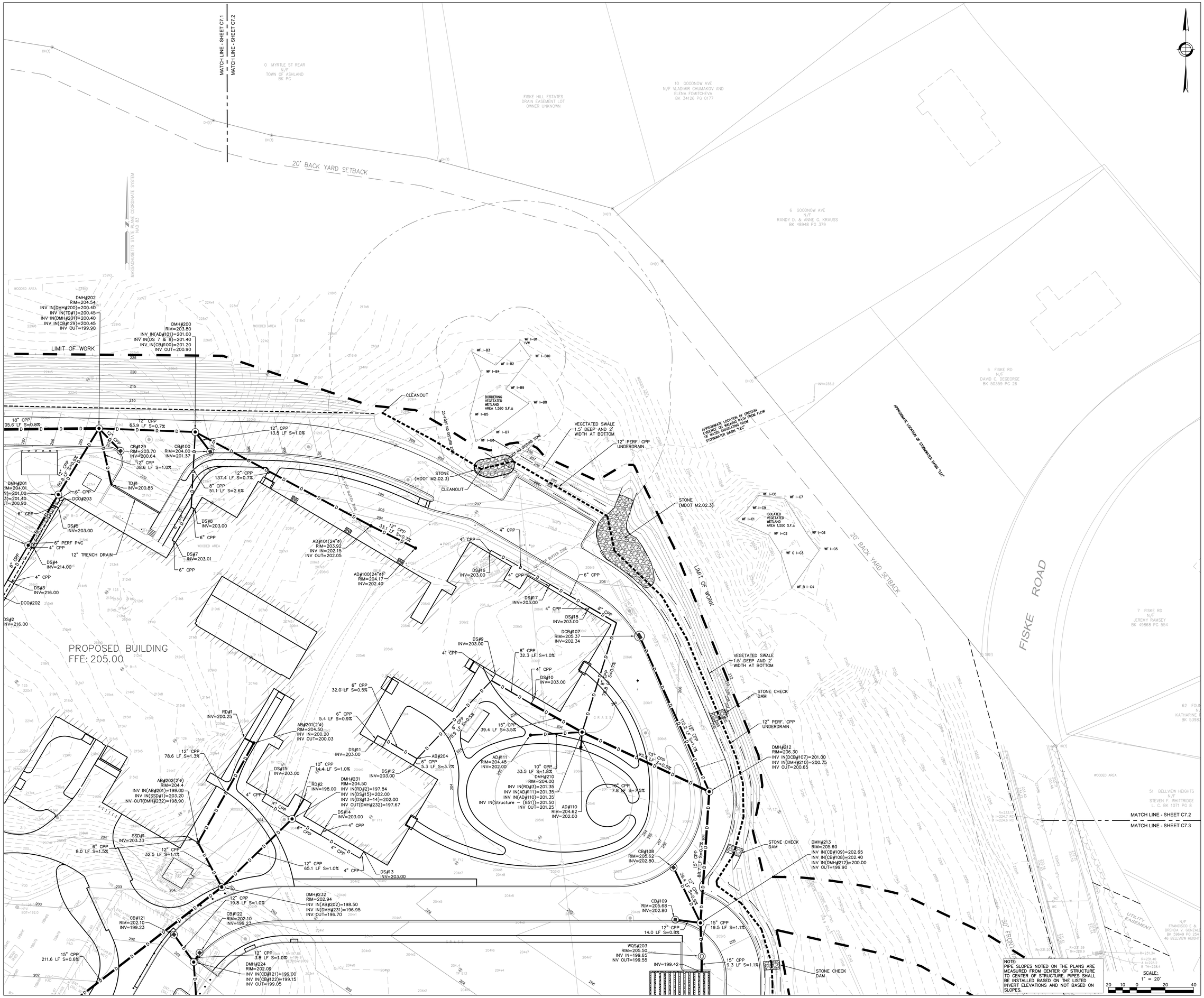
Sheet Title

Site Drainage Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	

C7.1

Nitsch Project #13609



ASHLAND, MASSACHUSETTS Incorporated 1846

90 Concord Street, Ashland, MA

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Owner Project Manager

Compass Project Management, Inc.
Owners' Project Manager
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Norwood, MA 02062

Consultants

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2 Center Plaza
Boston, MA 02108

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Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

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No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — JOSEPH E. CHIUCCI — CIVIL — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/11/21

Final Permitting Set

Key Plan

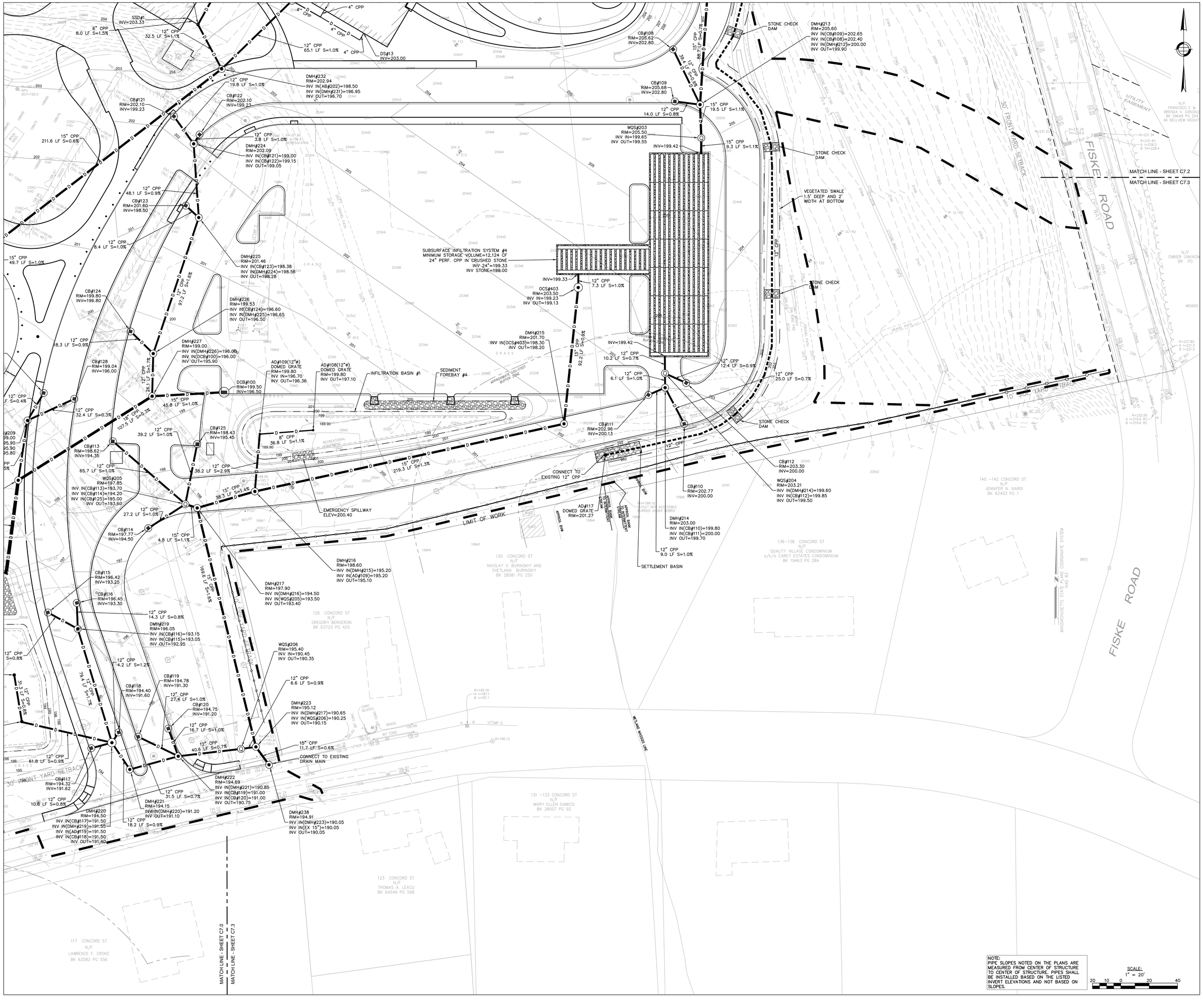
Sheet Title

Site Drainage Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	

C7.2

Nitsch Project #13609



NOTE:
PIPE SLOPES NOTED ON THE PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPES SHALL BE INSTALLED BASED ON THE LISTED INVERT ELEVATIONS AND NOT BASED ON SLOPES.

SCALE:
1" = 20'
20 10 0 20 40

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		REVISIONS

No.	Date	Note
		ISSUE

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NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JAMES V. PUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

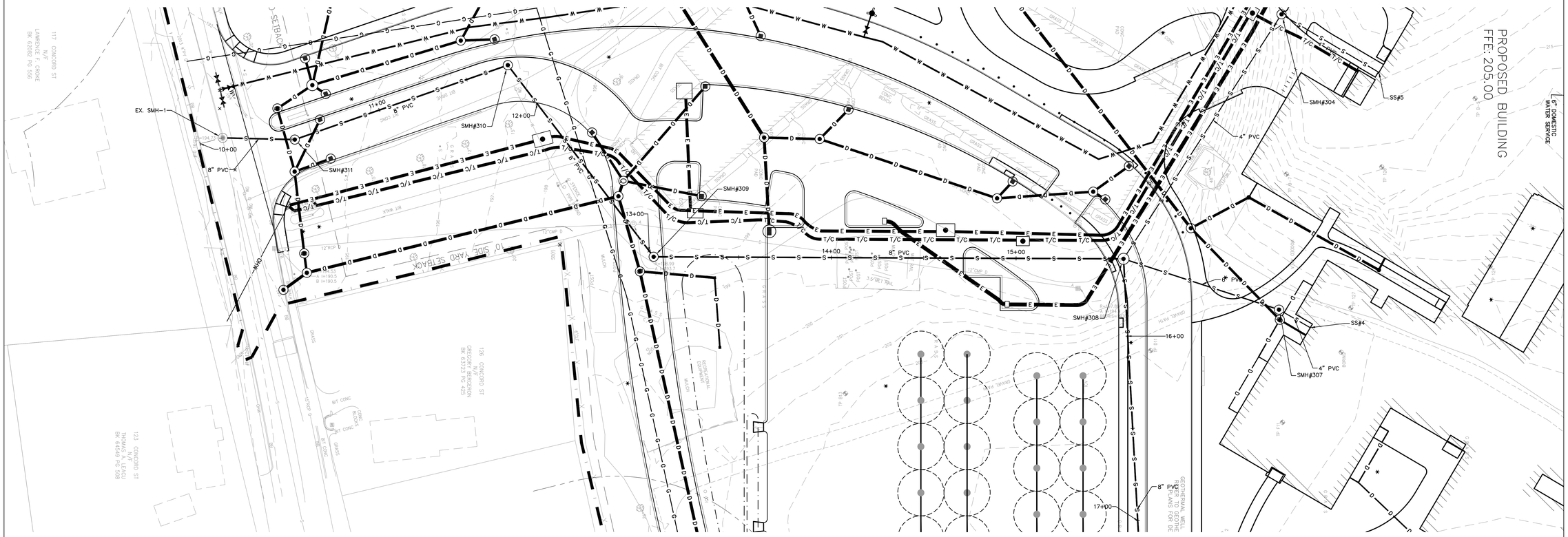
Site Drainage Plan

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021

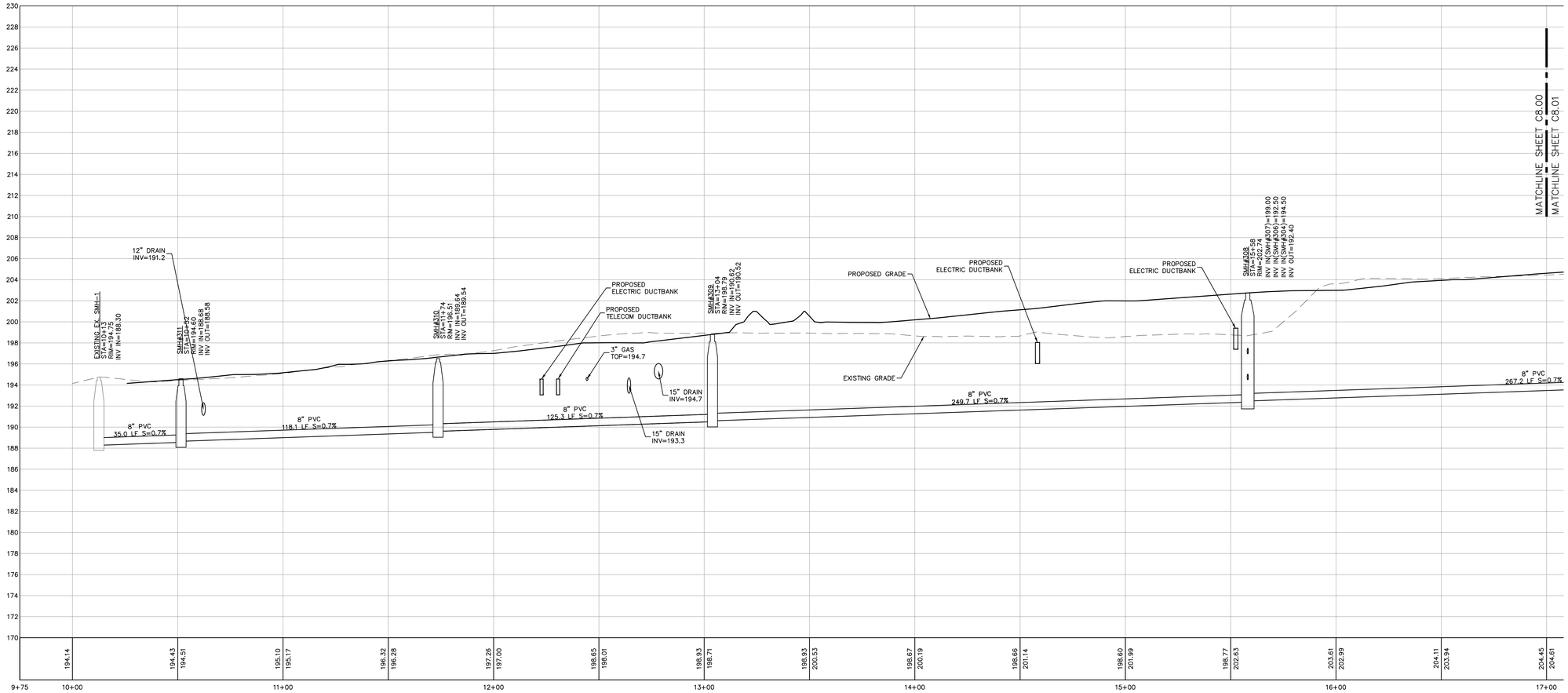
Sheet No.

C7.3

Nitsch Project #13609



SEWER MAIN LINE PLAN VIEW



SEWER MAIN LINE PROFILE VIEW
STA 10+00 TO 17+00

SCALE:
HORZ: 1" = 20'
VERT: 1"=4'

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REVISIONS		
No.	Date	Note
ISSUE		

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COMMONWEALTH OF MASSACHUSETTS
JOSEPH E. GRECO
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

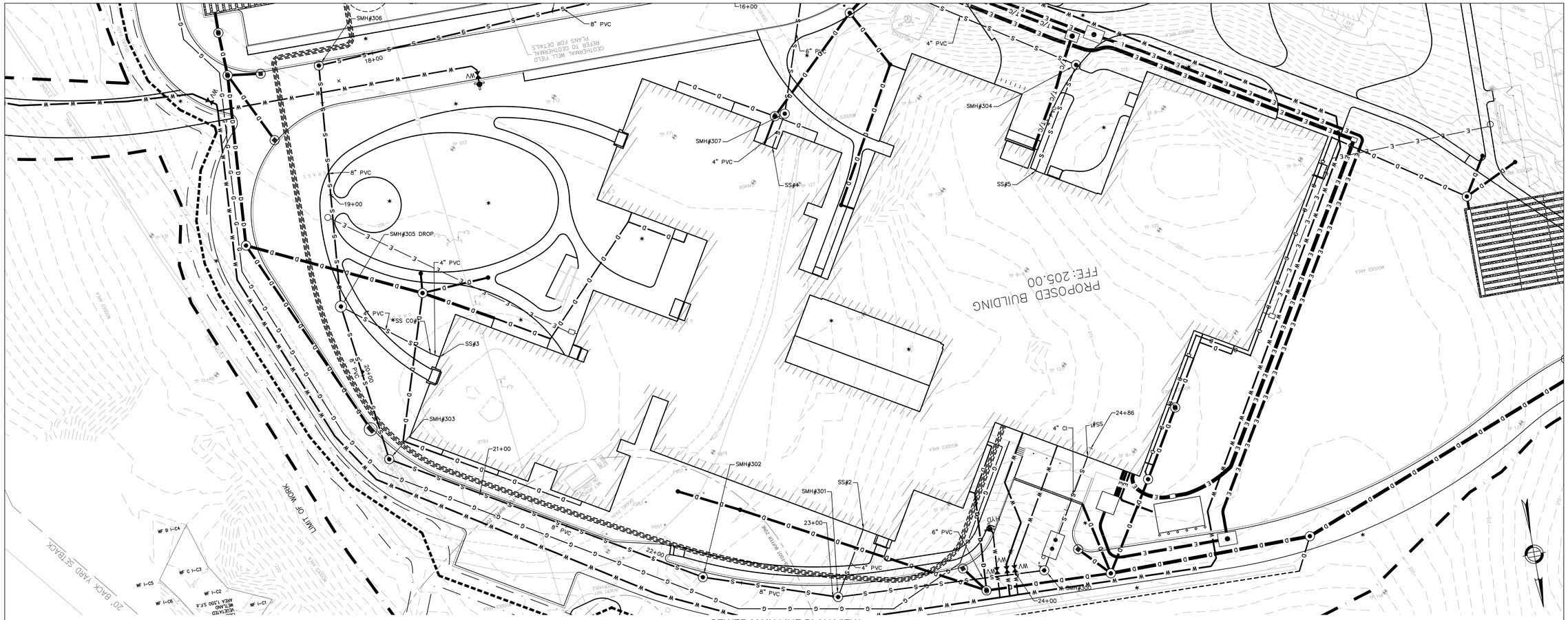
Sheet Title

Sewer Profile

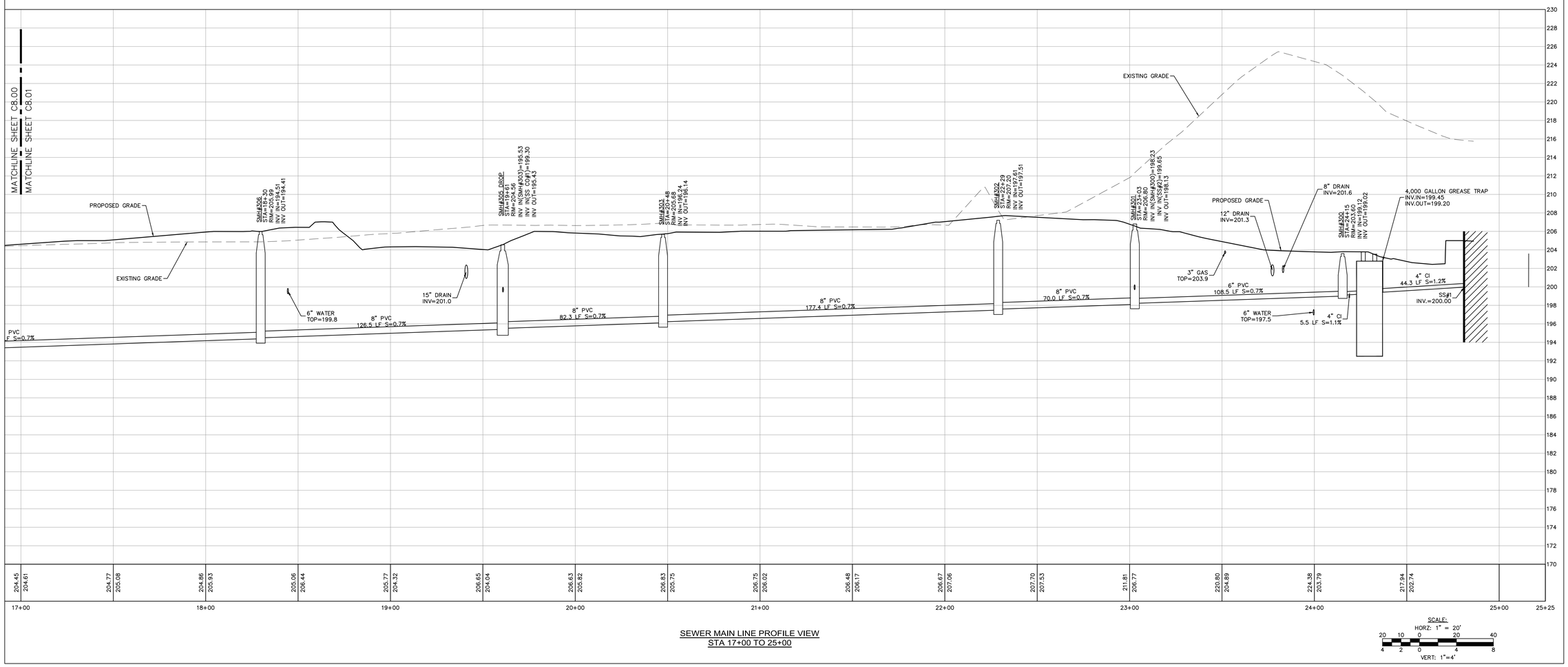
Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	

C8.0

Nitsch Project #13609



SEWER MAIN LINE PLAN VIEW



SEWER MAIN LINE PROFILE VIEW
STA 17+00 TO 25+00

SCALE:
HORZ: 1" = 20'
20 10 0 20 40
VERT: 1"=4'
4 2 0 4 8

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11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Sewer Profile

Drawn By: NJB	Project ID: 1914.00
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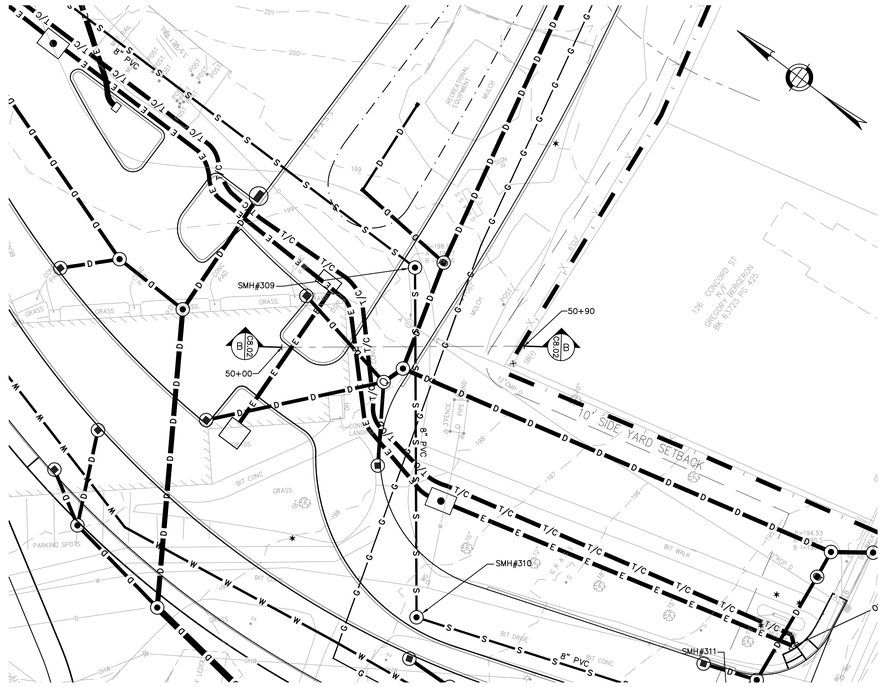
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

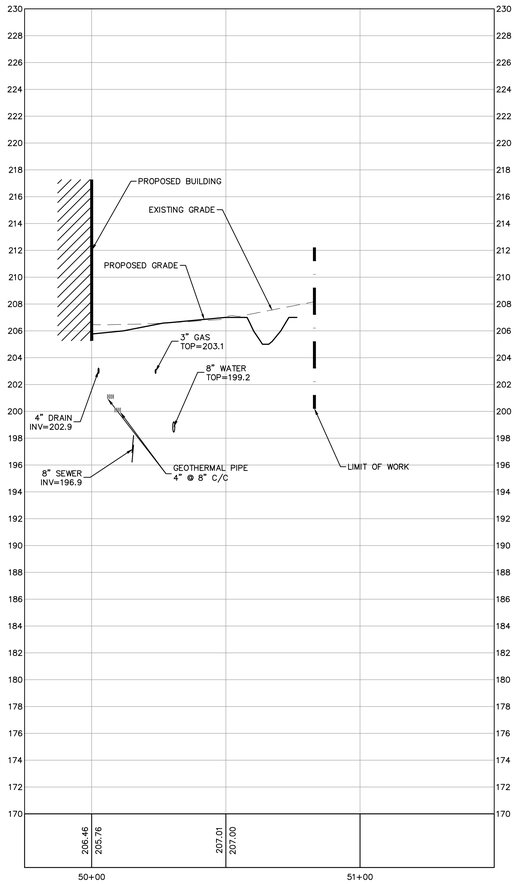
C8.1

Nitsch Project #13609

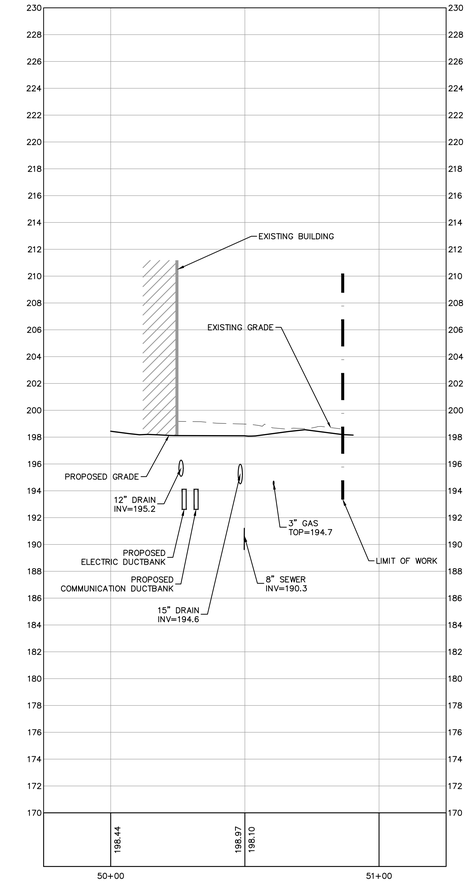
SECTION A-A PLAN VIEW



SECTION B-B PLAN VIEW



SECTION A-A PROFILE VIEW



SECTION B-B PROFILE VIEW

SCALE:
HORZ: 1" = 20'
20 10 0 20 40
4 2 0 4 8
VERT: 1"=4'

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COMMONWEALTH OF MASSACHUSETTS
JOSEPH E. GRUCCI
CIVIL
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

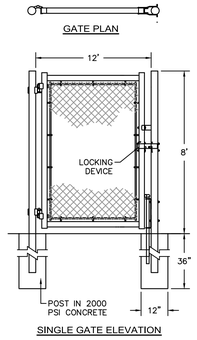
Sheet Title

Utility Section

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: 1" = 20'
Issue Date: 09.23.2021	Plot Date: 11.19.2021
Sheet No.	

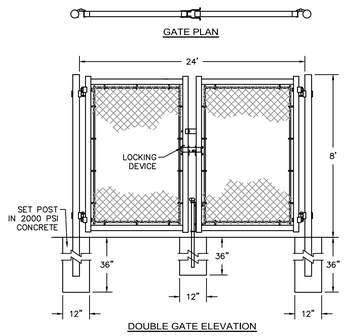
C8.2

Nitsch Project #13609



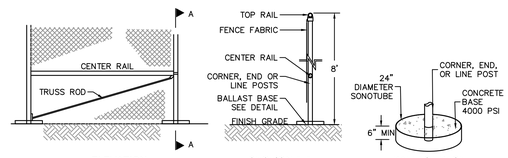
12' WIDE EMERGENCY GATE

NOT TO SCALE



24' WIDE DOUBLE GATE

NOT TO SCALE

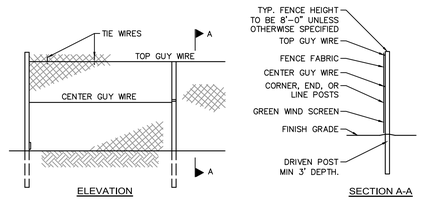


NOTES

1. END, GATE AND CORNER POSTS SHALL BE BRACED TO ADJACENT LINE POSTS. (MORE THAN 30° CHANGE IN DIRECTION CONSTITUTES A CORNER)
2. FABRIC SHALL BE 0.148" GAUGE MIN. WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
3. ZINC-COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH PRIME WESTERN SPELTER OR EQUAL.
4. ALUMINUM COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH ALUMINUM ALLOY.
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

TEMPORARY CHAIN LINK CONSTRUCTION FENCE WITH BALLAST BASE

NOT TO SCALE

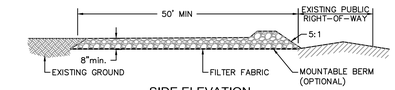


CONSTRUCTION FENCE AND GATE NOTES:

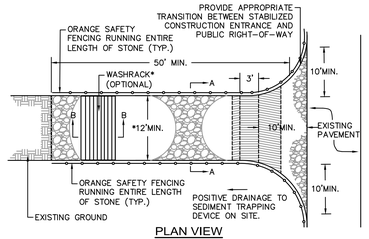
1. FABRIC SHALL BE 0.148" WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
2. THE FENCE FABRIC SHALL BE ZINC COATED STEEL OR ALUMINUM COATED STEEL.
3. FENCE POSTS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).
4. THE CONTRACTOR SHALL ADD A GREEN WIND SCREEN
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

CHAIN LINK CONSTRUCTION FENCE

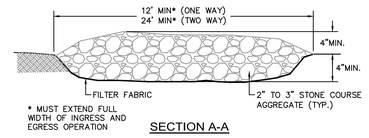
NOT TO SCALE



SIDE ELEVATION

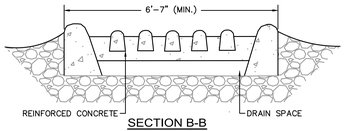


PLAN VIEW



* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

SECTION A-A



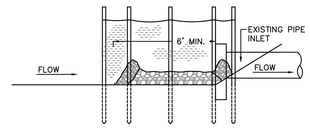
SECTION B-B

CONSTRUCTION SPECIFICATIONS

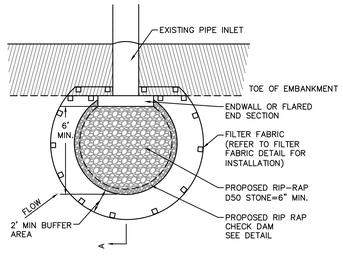
1. LENGTH – GREATER THAN OR EQUAL TO 50 FEET
2. WIDTH – TWELVE FOOT MINIMUM (ONE WAY), TWENTY FOUR FOOT MINIMUM (TWO WAY), BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
3. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHALL BE PERMITTED.
4. THICKNESS – 8"
5. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

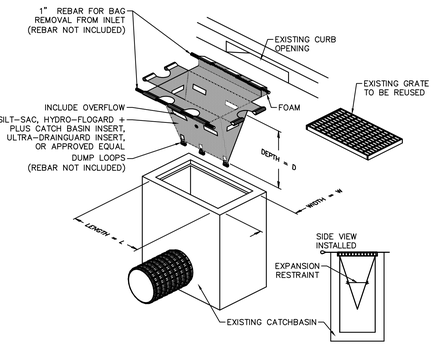


SECTION A-A



CULVERT INLET PROTECTION WITH SILT FECNCE

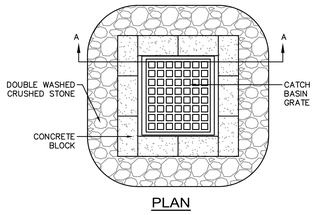
NOT TO SCALE



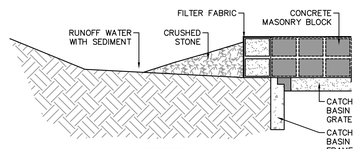
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND OR CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL BE DECREASED WITH THIS METHOD AND THE CONTRACTOR SHALL EXPECT PONDING DURING HIGH FLOW EVENTS.

INLET PROTECTION - OPTION 1 CATCH BASIN WITH SILTATION SACK

NOT TO SCALE



PLAN

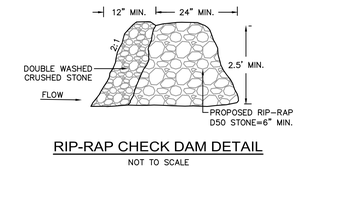


SECTION A-A

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE.

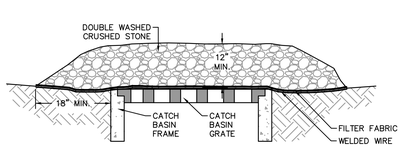
INLET PROTECTION - OPTION 2 CATCH BASIN W/ BLOCK AND GRAVEL

NOT TO SCALE



RIP-RAP CHECK DAM DETAIL

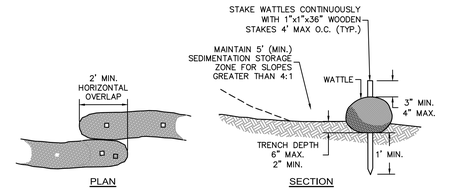
NOT TO SCALE



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS. THIS METHOD NOT ACCEPTABLE IN ACTIVE TRAFFIC AREAS.

INLET PROTECTION - OPTION 3 CATCH BASIN WITH GRAVEL

NOT TO SCALE

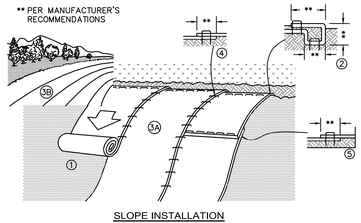


NOTE

ACCEPTABLE TYPES OF WATTLES ARE COIR (COCONUT FIBER), COMPOST, OR STRAW

EROSION CONTROL BARRIER WATTLES FOR SLOPES LESS THAN 10:1

NOT TO SCALE



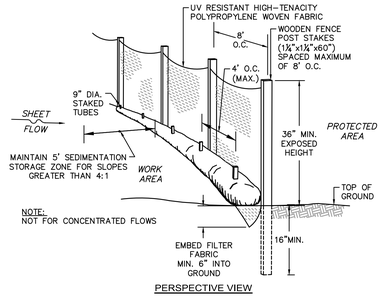
SLOPE INSTALLATION

NOTES:

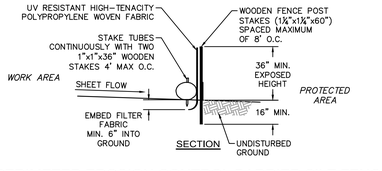
1. PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKETS (ECB's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE ECB's IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING PORTION OF ECB's BACK OVER SEED AND COMPACTED SOIL. SECURE ECB's OVER COMPACTED SOIL WITH A ROW OF STAKES/STAPLES SPACED ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS ACROSS THE WIDTH OF THE ECB's.
3. ROLL THE ECB's DOWN (A) OR HORIZONTALLY (B) ACROSS THE SLOPE. ECB's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ECB's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAKE/STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL ECB's MUST BE STAKED/STAPLED WITH OVERLAP DEPENDING ON ECB's TYPE. SEE THE MANUFACTURER'S RECOMMENDATIONS.
5. CONSECUTIVE ECB's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN OVERLAP (SEE THE MANUFACTURER'S RECOMMENDATIONS). STAKE/STAPLE THROUGH OVERLAPPED AREA, ACROSS ENTIRE ECB's WIDTH PER MANUFACTURER'S RECOMMENDATIONS.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAKE OR STAPLE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE ECB's.
7. THE CONTRACTOR SHALL FOLLOW ALL INSTALLATION INSTRUCTIONS AS RECOMMENDED BY THE MANUFACTURER.

TEMPORARY EROSION CONTROL BLANKET FOR STEEP SLOPES DETAIL

NOT TO SCALE



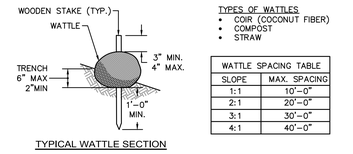
PERSPECTIVE VIEW



SECTION

PERIMETER EROSION CONTROL BARRIER SILT FENCE DETAIL WITH COMPOST FILTER TUBES

NOT TO SCALE



TYPICAL WATTLE SECTION

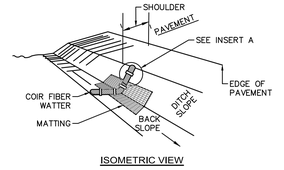
TYPES OF WATTLES

- COIR (COCONUT FIBER)
- COMPOST
- STRAW

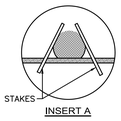
WATTLE SPACING TABLE	
SLOPE	MAX. SPACING
1:1	10'-0"
2:1	20'-0"
3:1	30'-0"
4:1	40'-0"

WATTLE SLOPE PROTECTION NOTES:

1. SECURELY KNOT EACH END OF WATTLE, ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
2. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL WHEN SOIL CONDITIONS REQUIRE
3. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
4. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.



ISOMETRIC VIEW



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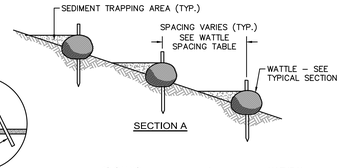
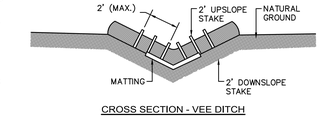
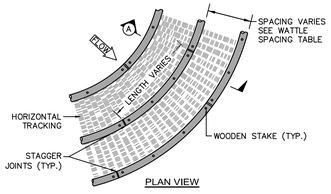


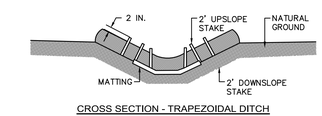
SECTION A



CROSS SECTION - VEE DITCH



PLAN VIEW



CROSS SECTION - TRAPEZOIDAL DITCH

EROSION CONTROL BARRIER - WATTLES FOR STEEP SLOPES

NOT TO SCALE

ASHLAND, MASSACHUSETTS Incorporated 1846

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

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Owners' Project Manager
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Land Survey/ Traffic/ Civil Engineers
2 Center Plaza
Boston, MA 02108

Stimson Studio
Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

Engineers Design Group Inc
Structural Engineer
350 Main Street
Malden, MA 02148

Stefura Associates, Inc.
FF&E and Casework
77 North Washington Street
Boston, MA 02114

Crabtree McGrath Associates, Inc.
FF&E and Casework
161 West Main Street
Georgetown, MA 01833

Vanderweil Engineers, LLP
Mechanical Electrical Technology
Plumbing & Fire Protection Engineers
274 Summer Street
Boston, MA 02210

Fuss and O'Neill, Inc.
Hazardous Materials
108 Myrtle Street, Suite 502
Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
		REVISIONS

No.	Date	Note
		ISSUE

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — Jason E. Nitsch — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/9/21

Final Permitting Set

Key Plan

Sheet Title

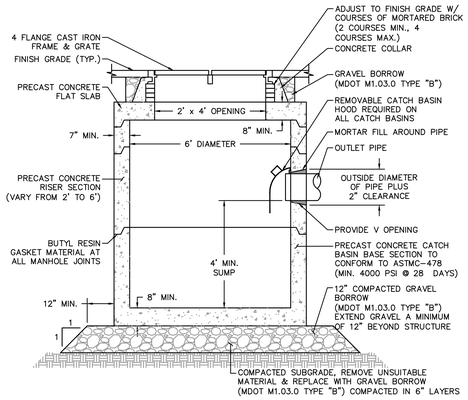
Erosion And Sedimentation Control Details

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: NOT TO SCALE
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.

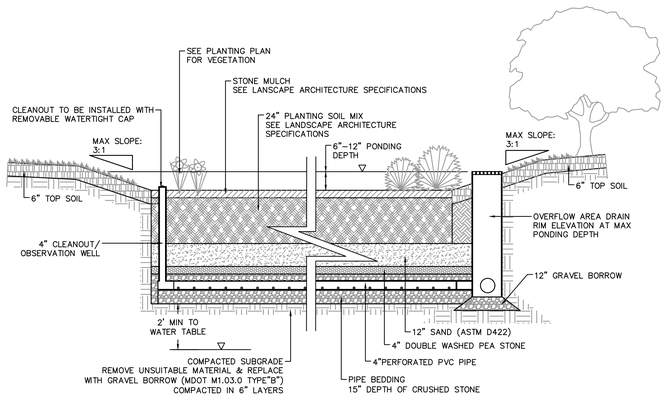
C9.0

Nitsch Project #13609



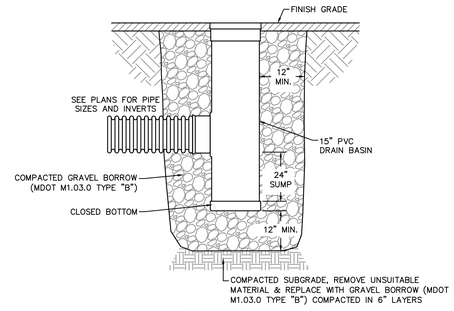
TYPICAL DOUBLE CATCH BASIN DETAIL

NOT TO SCALE



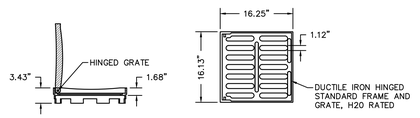
BIORETENTION BASIN

NOT TO SCALE



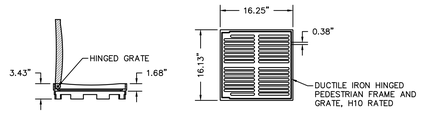
SECTION VIEW

NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 15" AREA DRAINS SHALL BE NYLOPLAST MODEL 2815 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.



STANDARD GRATE

DOMED GRATE



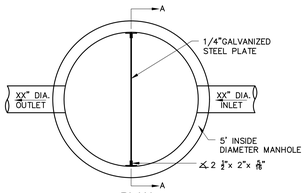
PEDESTRIAN GRATE (ADA COMPLIANT)

15" AREA DRAIN DETAIL

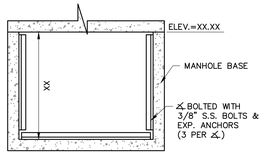
NOT TO SCALE

STRUCTURE NAME	WQS#200	WQS#201	WQS#202	WQS#203	WQS#204	WQS#205	WQS#206	WQS#206
MINIMUM WQF	0.54 CFS	0.17 CFS	0.35 CFS	0.33 CFS	0.39 CFS	0.31 CFS	0.44 CFS	0.07 CFS
PEAK FLOW RATE*	4.04 CFS	0.84 CFS	1.20 CFS	4.17 CFS	1.41 CFS	2.76 CFS	4.14 CFS	1.54 CFS
MINIMUM SEDIMENT STORAGE CAPACITY	31 CF	4 CF	5 CF	17 CF	6 CF	5 CF	7 CF	1 CF

* PEAK FLOW RATE BASED ON RATIONAL ANALYSIS FOR A 25-YEAR STORM EVENT. STRUCTURE SHALL BE ABLE TO PASS PEAK FLOW RATE WITHOUT CAUSING A BACKWATER CONDITION.



PLAN

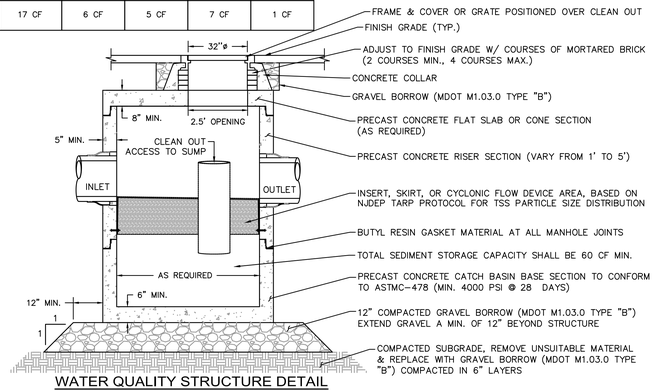


SECTION A-A

OUTLET CONTROL STRUCTURE

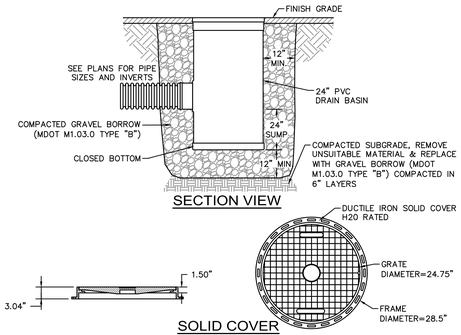
NOT TO SCALE

NOTES:
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
3. STRUCTURE DESIGNED FOR H20 LOADING



WATER QUALITY STRUCTURE DETAIL

NOT TO SCALE



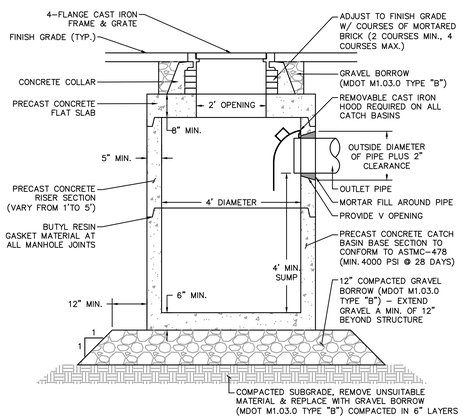
SECTION VIEW

SOLID COVER

NOTES:
1. FRAME AND COVER SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 24" ACCESS BASINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. ACCESS BASINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO ACCESS BASINS.

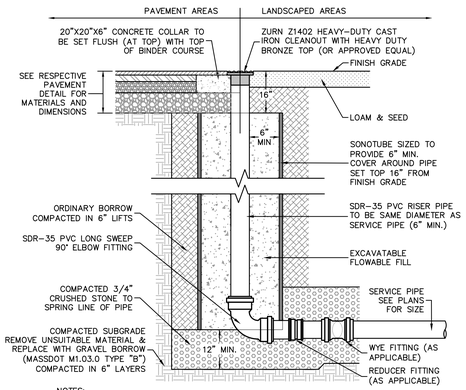
24" ACCESS BASIN DETAIL

NOT TO SCALE



TYPICAL CATCH BASIN DETAIL

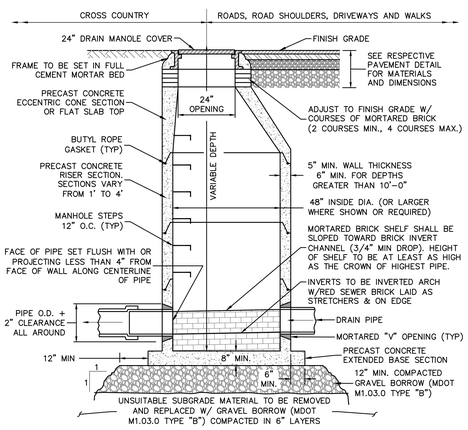
NOT TO SCALE



NOTES:
1. REFER TO THE PAVEMENT SECTION DETAIL AND/OR LANDSCAPE SECTION DETAIL FOR SURFACE MATERIALS AND DIMENSIONS

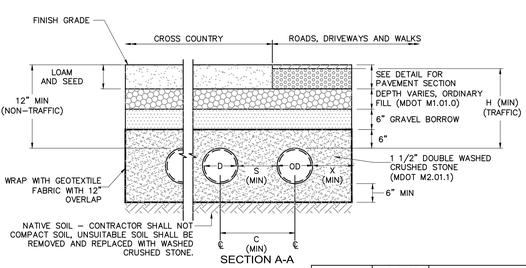
CLEANOUT DETAIL

NOT TO SCALE



TYPICAL DRAIN MANHOLE DETAIL

NOT TO SCALE

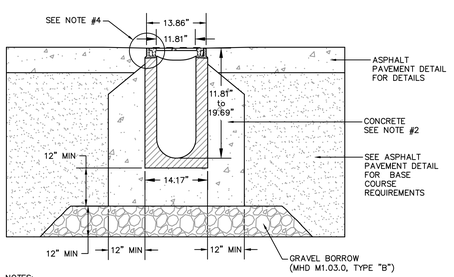


SECTION A-A

UNDERGROUND STORMWATER DETENTION SYSTEM DETAIL

NOT TO SCALE

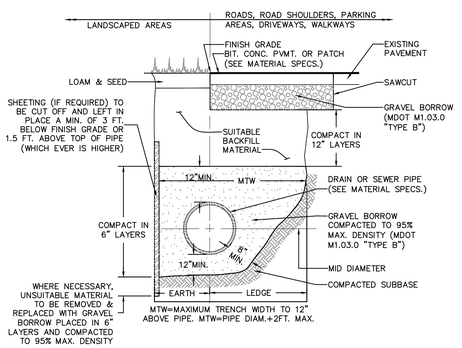
NOMINAL DIAMETER (D)	OUTSIDE DIAMETER (OD)	MIN. SPACING			
		C	S	X	H
24"	28"	41.5"	14"	10"	12"



NOTES:
1. TRENCH DRAIN SHALL BE POLYMER CONCRETE CHANNEL SYSTEM WITH DUCTILE IRON RAIL AND GRATE.
2. TRENCH DRAIN SYSTEM AND GRATES SHALL BE H-20 LOADING.
3. CONCRETE CRADLE FOR TRENCH DRAIN SHALL BE MINIMUM 4,000 PSI. CONCRETE SHALL BE VIBRATED TO ELIMINATE AIR POCKETS.
4. THE FINISHED LEVEL OF THE ASPHALT SHALL BE FLUSH WITH THE TOP OF THE CHANNEL EDGE.
5. TRENCH DRAIN SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. ALL TRENCH DRAINS SHALL BE PROVIDED WITH AN INLINE CATCH BASIN AT THE LOW POINT OF THE SYSTEM. WIDTH OF INLINE CATCH BASIN TO MATCH WIDTH OF TRENCH DRAIN.

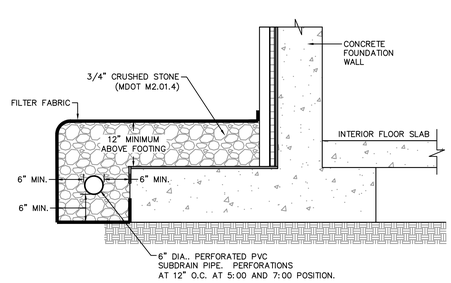
12" TRENCH DRAIN DETAIL IN ASPHALT PAVEMENT

NOT TO SCALE



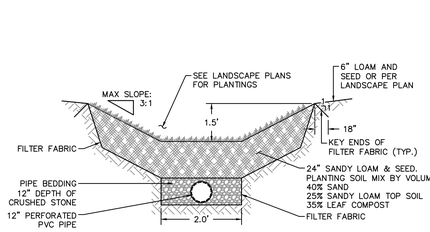
STANDARD TRENCH DETAIL FOR DRAIN AND SEWER PIPE

NOT TO SCALE



PERIMETER FOUNDATION SUBDRAIN DETAIL

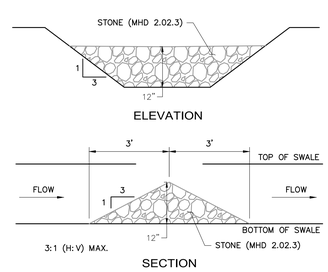
NOT TO SCALE



NOTES:
1. EROSION AND SEDIMENTATION CONTROL BLANKETS (SEE DETAIL ON C-4.1) SHOULD BE USED ON SLOPES OF 3:1 OR GREATER FOR STABILIZATION DURING CONSTRUCTION.

VEGETATED SWALE SECTION

NOT TO SCALE



SECTION

STONE CHECK DAM

NOT TO SCALE

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

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Owners' Project Manager
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Consultants

Nitsch Engineering, Inc.
Land Survey/ Traffic/ Civil Engineers
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Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

Engineers Design Group Inc
Structural Engineer
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Malden, MA 02148

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FF&E and Casework
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Boston, MA 02114

Crabtree McGrath Associates, Inc.
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Boston, MA 02210

Fuss and O'Neill, Inc.
Hazardous Materials
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Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — JOSEPH E. CARLUCCI — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/1/21

Final Permitting Set

Key Plan

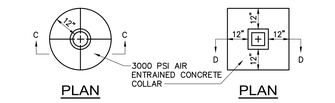
NORTH

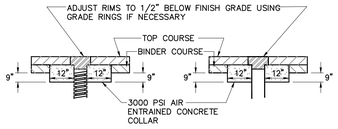
Sheet Title

Civil Details

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	NOT TO SCALE
Issue Date	Plot Date
09.23.2021	11.19.2021
Sheet No.	
C9.1	

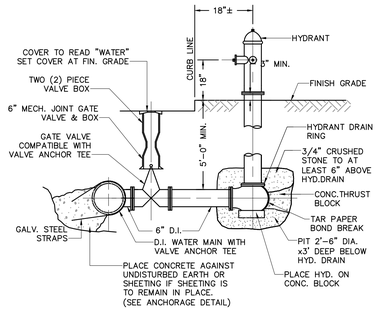
Nitsch Project #13609





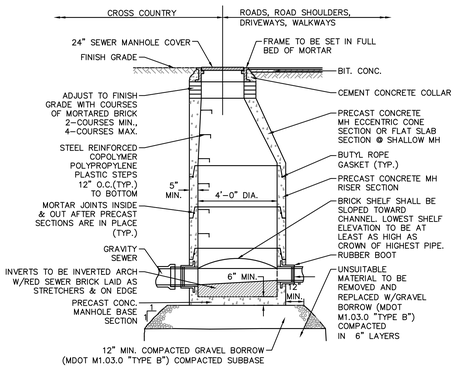
NOTE:
ALL GATE BOX RIMS TO BE SET 1/2" BELOW FINISH GRADE AFTER BINDER COURSE OR LEVELING COURSE PAVEMENT HAS BEEN PLACED.

WATER GATE BOX DETAIL
NOT TO SCALE

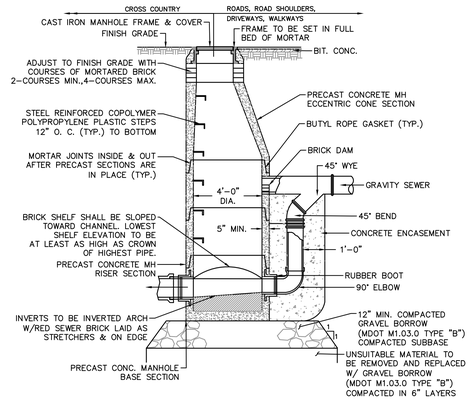


NOTE: ALL JOINTS ON HYDRANT BRANCH TO BE RESTRAINED JOINTS

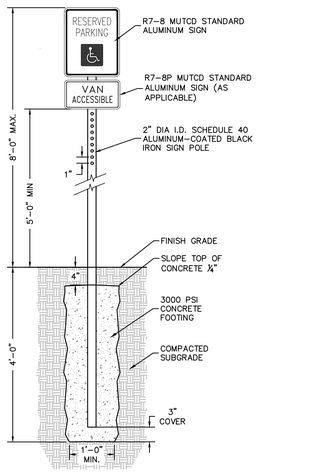
FIRE HYDRANT DETAIL
NOT TO SCALE



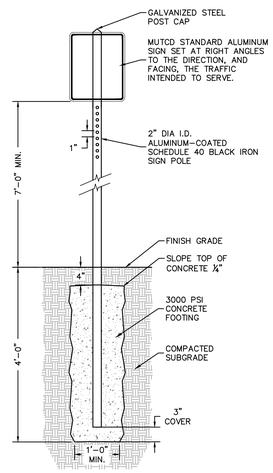
TYPICAL SEWER MANHOLE DETAIL
NOT TO SCALE



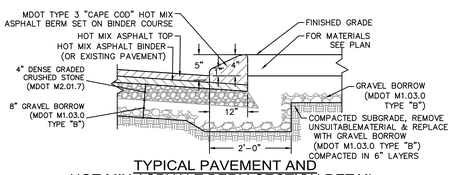
DROP MANHOLE DETAIL
NOT TO SCALE



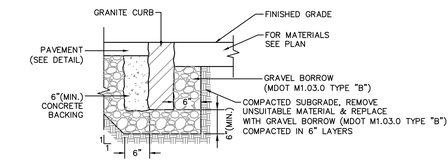
ACCESSIBLE PARKING SIGN DETAIL POST SET IN LANDSCAPE
NOT TO SCALE



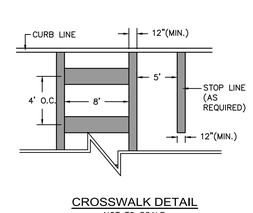
TYPICAL SIGN POST SETTING DETAIL
NOT TO SCALE



TYPICAL PAVEMENT AND HOT MIX ASPHALT BERM SECTION DETAIL
NOT TO SCALE

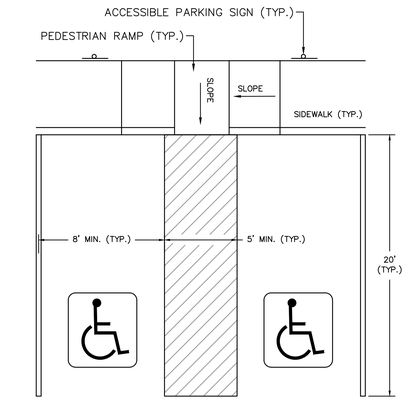


FLUSH GRANITE CURB SETTING DETAIL
NOT TO SCALE

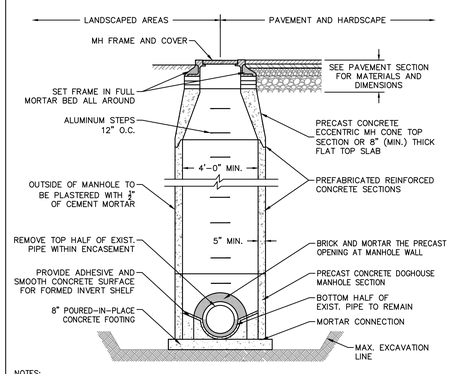


CROSSWALK DETAIL
NOT TO SCALE

ACCESSIBLE PARKING STENCIL DETAIL
NOT TO SCALE

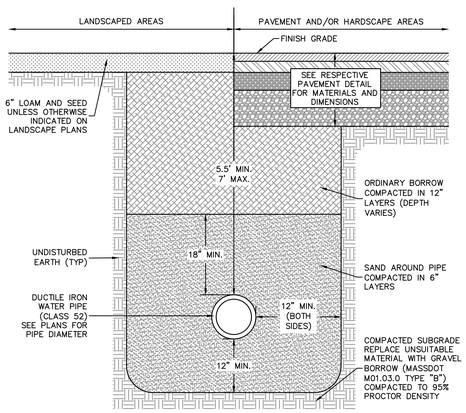


ACCESSIBLE PARKING DETAIL
NOT TO SCALE

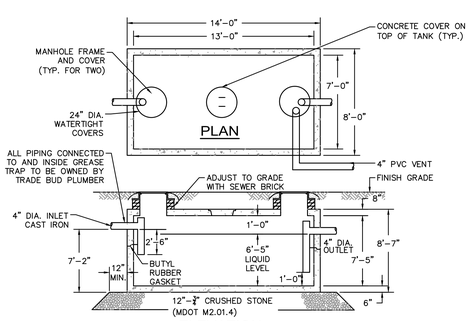


NOTES:
1. PREFABRICATED REINFORCED CONCRETE MANHOLE SECTIONS SHALL BE USED. THEY SHALL BE DESIGNED TO WITHSTAND AASHTO HS-20-44 LOADING.
2. SHOP DRAWINGS WILL BE REQUIRED TO BE SUBMITTED FOR APPROVAL. THE SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN MASSACHUSETTS.

DOGHOUSE MANHOLE DETAIL
NOT TO SCALE



WATER TRENCH DETAIL
NOT TO SCALE

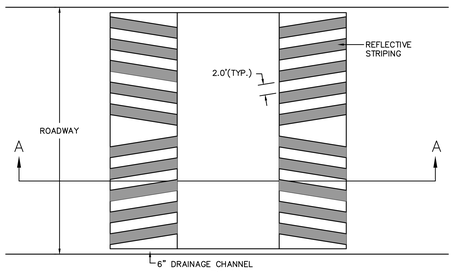


ELEVATION
SPECIFICATIONS:
1. CONCRETE MINIMUM STRENGTH – 5,000 PSI @ 28 DAYS
2. STEEL REINFORCEMENT – ASTM A615 GR. 60, A185 OR A497 – 1" MIN. COVER
3. DESIGN LOADING – AASHTO HS20-44 – EARTH COVER 0 TO 5 FEET
4. WATER TABLE – 0 FEET
5. CONSTRUCTION JOINT – SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT
6. TOTAL CAPACITY – 4,000 GALLONS

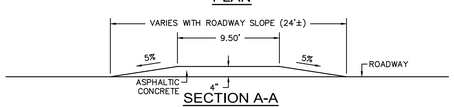
4,000 GALLON GREASE TRAP DETAIL
NOT TO SCALE

IDENTIFI-CATION NUMBER	SIZE OF SIGN		TEXT
	WIDTH	HEIGHT	
R1-1	24"	24"	STOP
R5-1	24"	24"	DO NOT ENTER
R6-1L	36"	12"	ONE WAY
R6-1R	36"	12"	ONE WAY
R7-8	12"	18"	RESERVED PARKING
R7-8P	18"	9"	VAN ACCESSIBLE
R3-5L	24"	30"	ONLY
R3-2	24"	24"	
R5-2	24"	24"	BUSES ONLY
R5-3	12"	18"	BACK-IN LOADING ONLY
R5-4	24"	30"	MA. GUARD AND TRUCK HOMELAND ACCESS ROUTE MON-FRI 8AM-4PM ONLY

TRAFFIC SIGN SUMMARY
NOT TO SCALE

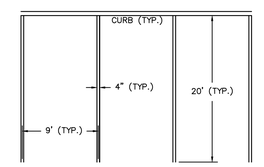


PLAN
NOT TO SCALE



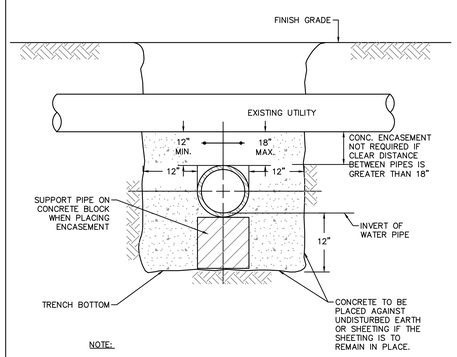
SECTION A-A
NOT TO SCALE

RAISED CROSSWALK DETAIL
NOT TO SCALE



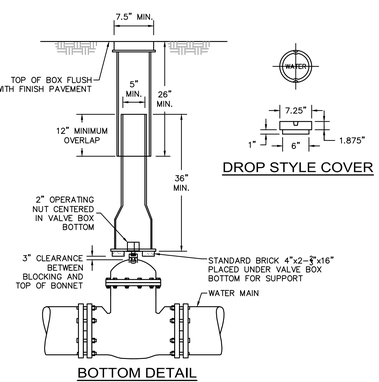
NOTE:
STRIPING SHALL BE INSTALLED PER SPECIFICATIONS

TYPICAL PARKING STRIPING DETAIL
NOT TO SCALE



NOTE:
PIPE MUST BE BRACED VERTICALLY & HORIZONTALLY TO PREVENT FLOATATION DURING PLACEMENT OF CONCRETE

CONCRETE ENCASEMENT DETAIL AT UTILITY CROSSINGS
NOT TO SCALE

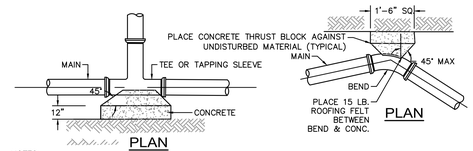


BOTTOM DETAIL

DROP STYLE COVER

NOTES:
1. ALL WATER MAINS SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
2. COVER MUST BE MARKED "WATER".

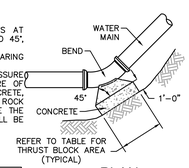
GATE VALVE BOX DETAIL
NOT TO SCALE



NOTES:
1. THRUST BLOCKS TO BE USED ON ALL PRESSURE PIPES AT HORIZONTAL AND VERTICAL BENDS GREATER OR EQUAL TO 45°, TEES AND DEAD ENDS.
2. FOR FITTINGS WITH LESS THAN 45° DEFLECTION USE BEARING AREAS FOR 45° BEND.
3. BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 PSF AND A MINIMUM INTERNAL WATER PRESSURE OF 175 PSIG. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DISREGARDED FOR TRENCHES IN ROCK WHERE THE TOP OF THE ROCK FACE IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN THE PIPE AND ROCK FACE.

TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR FITTING. *

SIZE OF MAIN (INCHES)	90° BEND (S.F.)	45° BEND (S.F.)	DEAD END (S.F.)
4	2.3	1.3	1.6
6	4.7	2.5	3.3
8	8.0	4.5	6.0
12	17.0	9.5	12.0



THRUST BLOCK DETAILS
NOT TO SCALE

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

Owner Project Manager

Compass Project Management, Inc.
Owners' Project Manager
One Edgewater Drive, Suite 204
Norwood, MA 02062

Consultants

Nitsch Engineering, Inc.
Land Survey/ Traffic/ Civil Engineers
2 Center Plaza
Boston, MA 02108

Stimson Studio
Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

Engineers Design Group Inc
Structural Engineer
350 Main Street
Malden, MA 02148

Stefura Associates, Inc.
FF&E and Casework
77 North Washington Street
Boston, MA 02114

Crabtree McGrath Associates, Inc.
FF&E and Casework
161 West Main Street
Georgetown, MA 01833

Vanderweil Engineers, LLP
Mechanical Electrical Technology
Plumbing & Fire Protection Engineers
274 Summer Street
Boston, MA 02210

Fuss and O'Neill, Inc.
Hazardous Materials
108 Myrtle Street, Suite 502
Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp
NITSCH PROJECT #13609
COMMONWEALTH OF MASSACHUSETTS
Robert E. Nitsch
Civil
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

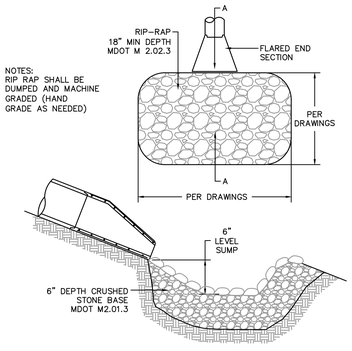
Key Plan

Sheet Title
Civil Details

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: NOT TO SCALE
Issue Date: 09.23.2021	Plot Date: 11.19.2021

Sheet No.
C9.2

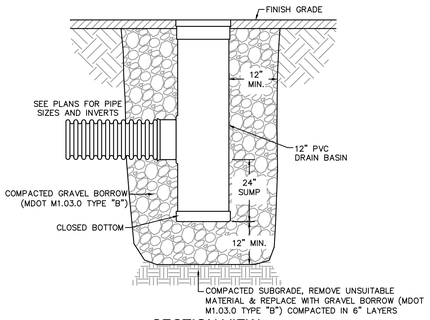
Nitsch Project #13609



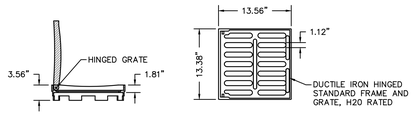
SECTION A-A

LEVEL SPREADER DETAIL

NOT TO SCALE



SECTION VIEW

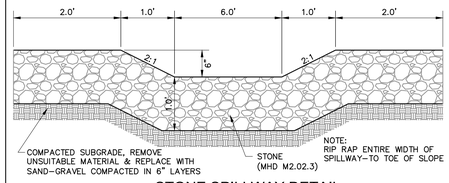


STANDARD GRATE

NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 12" AREA DRAINS SHALL BE NYLOPLAST MODEL 2812 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.

12" AREA DRAIN DETAIL

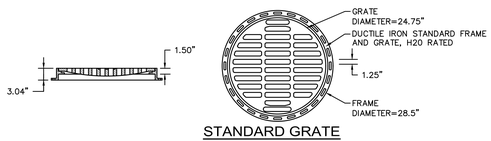
NOT TO SCALE



STONE SPILLWAY DETAIL

NOT TO SCALE

SECTION VIEW



STANDARD GRATE

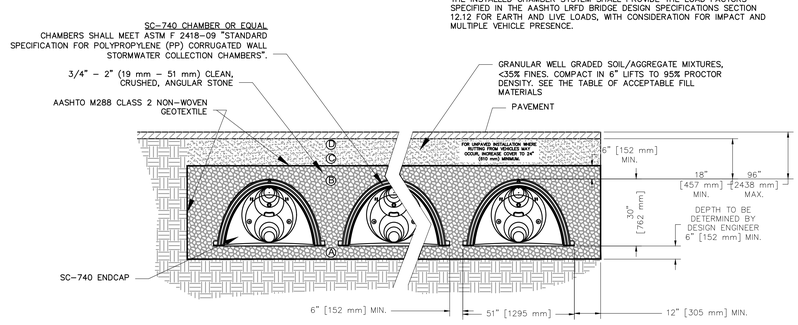
DOMED GRATE

NOTES:
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 24" AREA DRAINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.

24" AREA DRAIN DETAIL

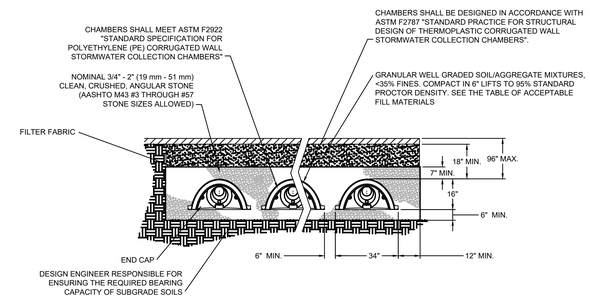
NOT TO SCALE

THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS, WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.



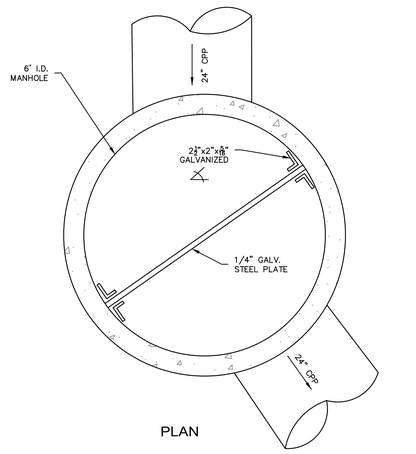
30" ARCH CHAMBER INFILTRATION SYSTEM DETAIL

NOT TO SCALE

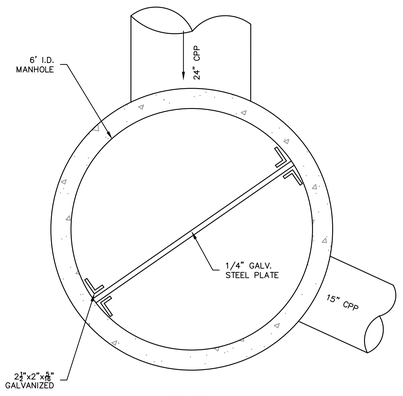


16" ARCH CHAMBER INFILTRATION SYSTEM DETAIL

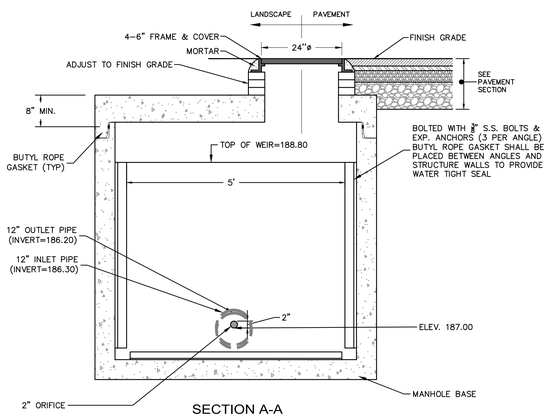
NOT TO SCALE



PLAN



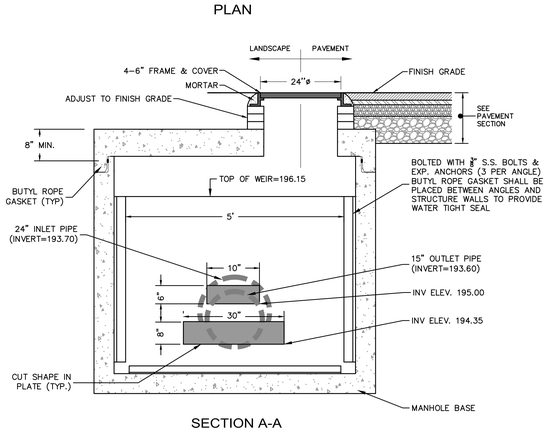
PLAN



SECTION A-A

SS-2 OUTLET CONTROL STRUCTURE #401

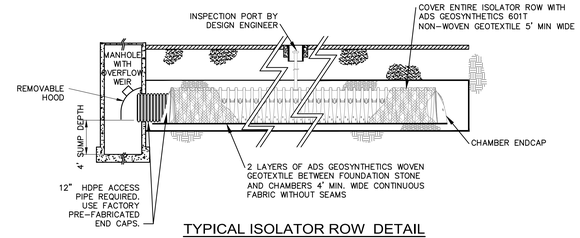
NOT TO SCALE



SECTION A-A

SS-3 OUTLET CONTROL STRUCTURE #400

NOT TO SCALE

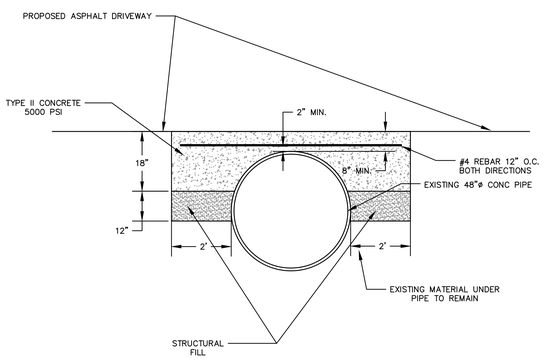


TYPICAL ISOLATOR ROW DETAIL

NOT TO SCALE

NOTES:

1. INSTALLATION OF SYSTEMS SHALL CONFORM TO MANUFACTURER SPECIFICATIONS AND IN ACCORDANCE WITH THE MANUFACTURER DESIGN MANUAL
2. THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST MANUFACTURER INSTALLATION INSTRUCTIONS
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
4. CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS



CONCRETE PIPE CAP DETAIL

NOT TO SCALE

ASHLAND, MASSACHUSETTS Incorporated 1846

90 Concord Street, Ashland, MA

FLANSBURGH

77 NORTH WASHINGTON STREET
BOSTON, MA 02114-1910

FLANSBURGH.COM

Owner Project Manager

Compass Project Management, Inc.
Owners' Project Manager
One Edgewater Drive, Suite 204
Norwood, MA 02062

Consultants

Nitsch Engineering, Inc.
Land Survey/ Traffic/ Civil Engineers
2 Center Plaza
Boston, MA 02108

Stimson Studio
Landscape Architect
288 Norfolk Street
Cambridge, MA 02139

Engineers Design Group Inc
Structural Engineer
350 Main Street
Malden, MA 02148

Stefura Associates, Inc.
FF&E and Casework
77 North Washington Street
Boston, MA 02114

Crabtree McGrath Associates, Inc.
FF&E and Casework
161 West Main Street
Georgetown, MA 01833

Vanderweil Engineers, LLP
Mechanical Electrical Technology
Plumbing & Fire Protection Engineers
274 Summer Street
Boston, MA 02210

Fuss and O'Neill, Inc.
Hazardous Materials
108 Myrtle Street, Suite 502
Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS
JOHN E. GIULIANO
No. 48079
REGISTERED PROFESSIONAL ENGINEER
11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

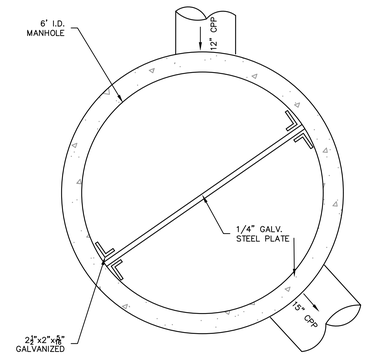
Civil Details

Drawn By: NJB	Project ID: 1914.00
Reviewed By: BMV/JEG	Scale: NOT TO SCALE
Issue Date: 09.23.2021	Plot Date: 11.19.2021

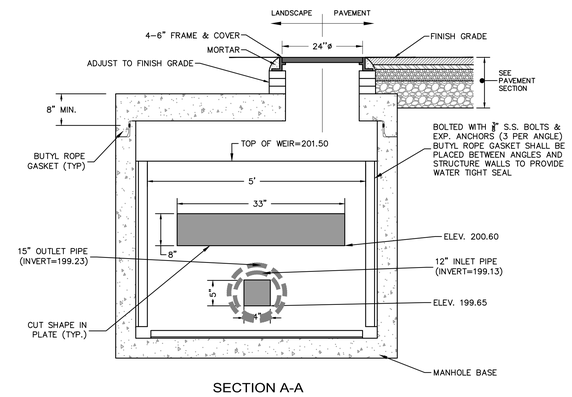
Sheet No.

C9.3

Nitsch Project #13609



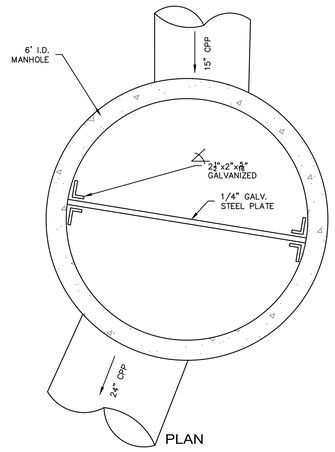
PLAN



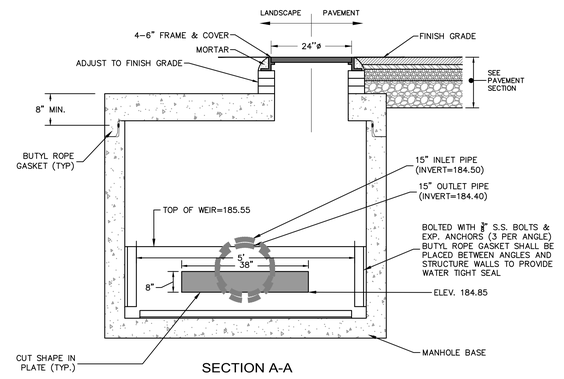
SECTION A-A

SS-4 OUTLET CONTROL STRUCTURE #403

NOT TO SCALE



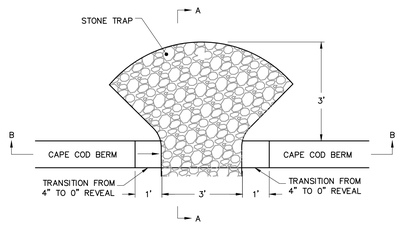
PLAN



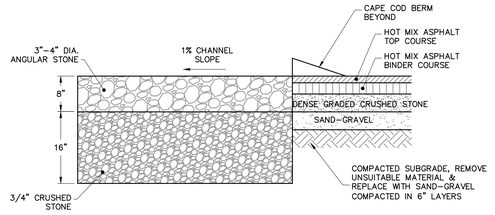
SECTION A-A

SS-1 OUTLET CONTROL STRUCTURE #402

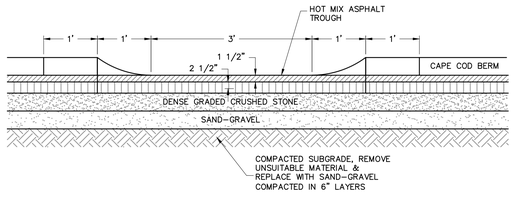
NOT TO SCALE



PLAN VIEW



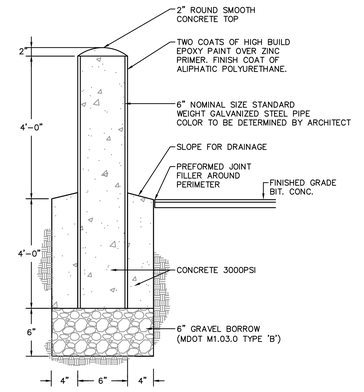
SECTION A-A



SECTION B-B

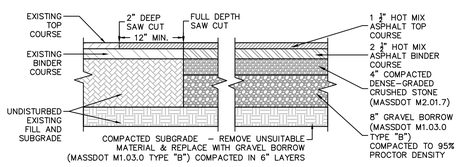
CURB BREAK DETAIL FOR CAPE COD BERM

NOT TO SCALE



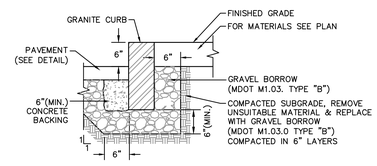
6" BOLLARD DETAIL

NOT TO SCALE



HOT MIX ASPHALT PAVING (TWO COURSES) DETAIL

NOT TO SCALE



VERTICAL GRANITE CURB SETTING DETAIL

NOT TO SCALE

90 Concord Street, Ashland, MA

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BOSTON, MA 02114-1910

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Hazardous Materials
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Quincy, MA 02171

AM Fogarty
Cost Estimators
175 Derby St, Ste 5
Hingham, Massachusetts 02043

No.	Date	Note
		REVISIONS

No.	Date	Note
		ISSUE

Stamp

NITSCH PROJECT #13609

COMMONWEALTH OF MASSACHUSETTS — Jason E. Nitsch — CIVIL — No. 48079 — REGISTERED PROFESSIONAL ENGINEER — 11/19/21

Final Permitting Set

Key Plan

NORTH

Sheet Title

Civil Details

Drawn By	Project ID
NJB	1914.00
Reviewed By	Scale
BMV/JEG	NOT TO SCALE
Issue Date	Plot Date
09.23.2021	11.19.2021

Sheet No.

C9.4

Nitsch Project #13609

ASHLAND, MASSACHUSETTS
Incorporated 1846

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No.	Date	Note
1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

ISSUE

Stamp

Final Permitting Set

Key Plan

NORTH

Sheet Title

OVERALL SITE PLAN

Drawn By RI/CC/HMV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 40'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

L1.00

MATERIALS LEGEND

PAVING

P1	BITUMINOUS CONCRETE PAVEMENT- VEHICULAR	SEE CIVIL DRAWINGS
P2	BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN	1 / L5.00
P3	CONCRETE PAVEMENT - PEDESTRIAN	2 / L5.00
P4	CONCRETE PAVEMENT - VEHICULAR	2 / L5.00
P5	RESILIENT RUBBER PLAYGROUND SURFACE	5 / L5.00
P6	STABILIZED STONEDUST WALKING PATH	4 / L5.00
P7	BASKETBALL COURT SURFACING	11 / L5.02
DW	DETECTABLE WARNING TILE	6 / L5.00
PA	PLANTING AREA	

EDGING

GC	GRANITE CURB	SEE CIVIL DRAWINGS
CC	CAPE COD BERM	SEE CIVIL DRAWINGS

WALLS

RW	MODULAR BLOCK RETAINING WALL	12 / L5.00
ES	BUILDING IDENTIFICATION SIGN	12 / L5.03 ; 13 / L5.00
LD	LOADING DOCK	14 / L5.00
CS	CONCRETE STEPS	11 / L5.00

SITE FURNISHING DETAILS

B	DECORATIVE BOLLARDS - 50 TOTAL (ALLOW 6 TO BE COLLAPSIBLE)	3 / L5.03
S	STEEL PLAY STRUCTURE - SEE SPECIFICATIONS	
MB	BENCH (ALLOW 20 TOTAL)	8 / L5.03
FP	40' HT. SPUN ALUMINUM FLAGPOLE	1 / L5.02
IS	INTERPRETIVE SIGN	6 / L5.03
F	CHAIN LINK FENCE - 6'	5 / L5.01
MF	ORNAMENTAL METAL FENCE	1 / L5.01
MR	METAL GUARD RAIL	2 / L5.01
GR	WOOD GUARD RAIL	4 / L5.01
CW	CEDAR TIMBER RAISED GARDEN BED	2 / L5.03
BR	BICYCLE RACKS	10 / L5.03
WR	TRASH AND RECYCLING RECEPTACLES (ALLOW 2 EACH)	9 / L5.03

LAYOUT NOTES

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6. All dimensions taken from vertical surfaces, i.e. curbs & walls, are understood to be measured from the face of the vertical element unless otherwise specified.
7. All angles assumed to be 90° unless otherwise specified.

MATERIALS NOTES

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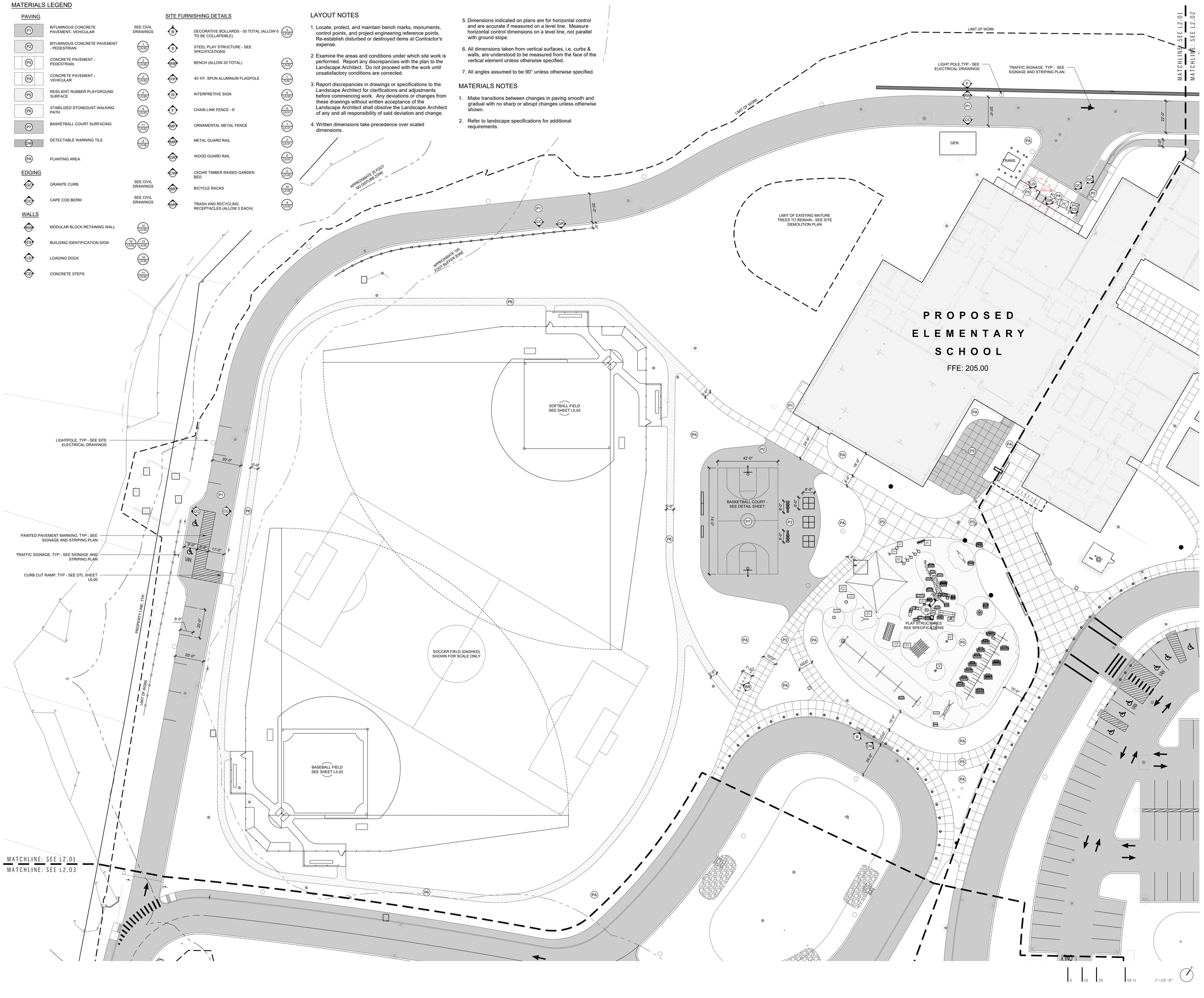
2. Refer to landscape specifications for additional requirements.



ASHLAND, MASSACHUSETTS Incorporated 1846

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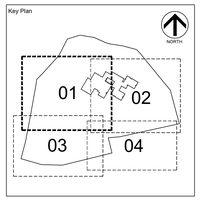
No.	Date	Note
1	10.14.2021	Addendum 2
REVISIONS		
No.	Date	Note
ISSUE		

Stamp

Final Permitting Set

Key Plan



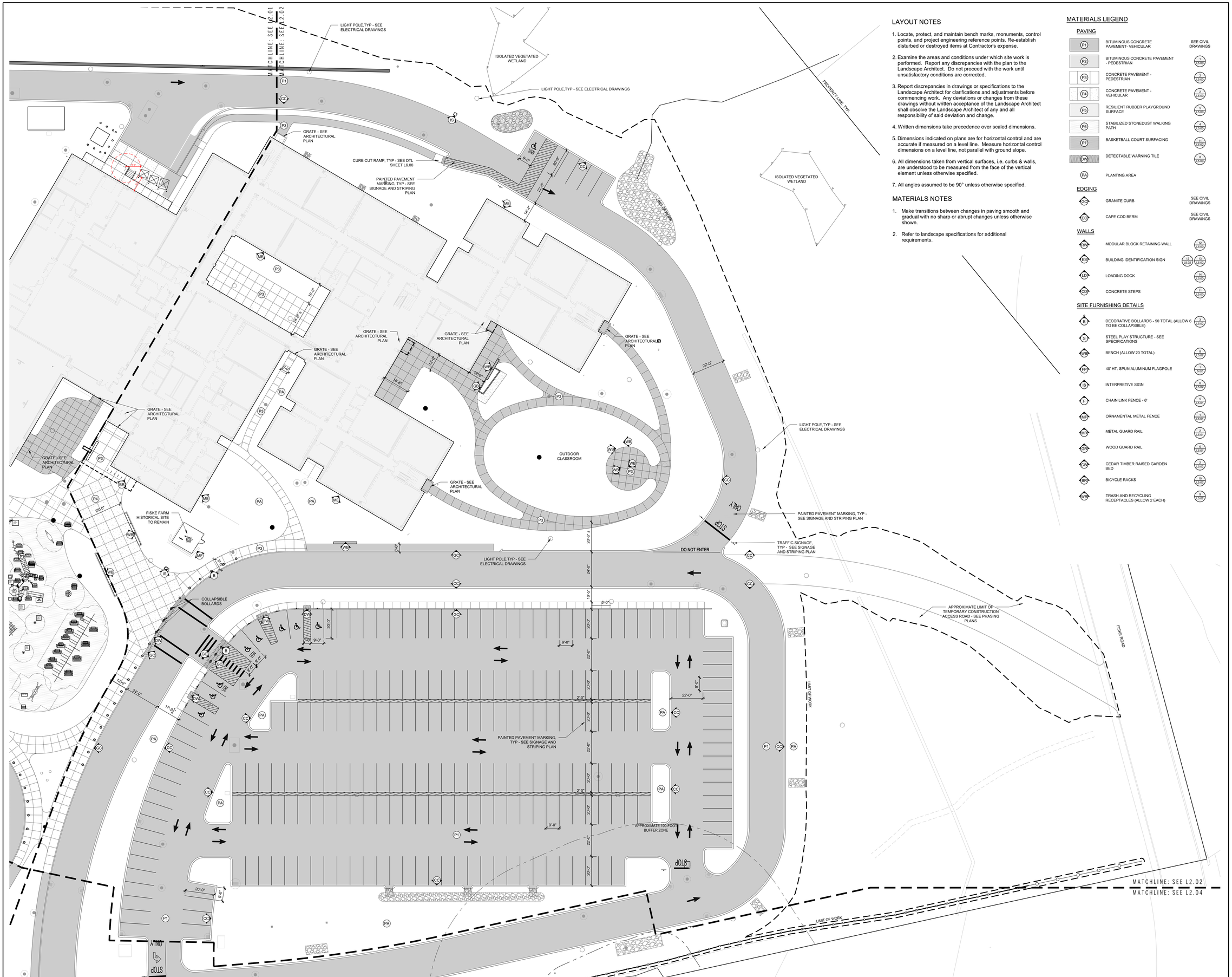
Sheet Title

LAYOUT AND MATERIALS PLAN 1

Drawn By: RI/CC/HMV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 20'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L2.01



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MATERIALS NOTES

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2. Refer to landscape specifications for additional requirements.

MATERIALS LEGEND

PAVING

P1	BITUMINOUS CONCRETE PAVEMENT - VEHICULAR	SEE CIVIL DRAWINGS
P2	BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN	1 L5.03
P3	CONCRETE PAVEMENT - PEDESTRIAN	2 L5.04
P4	CONCRETE PAVEMENT - VEHICULAR	3 L5.04
P5	RESILIENT RUBBER PLAYGROUND SURFACE	5 L5.04
P6	STABILIZED STONEDUST WALKING PATH	4 L5.04
P7	BASKETBALL COURT SURFACING	1 L5.03
DW	DETECTABLE WARNING TILE	8 L5.04
PA	PLANTING AREA	

EDGING

GC	GRANITE CURB	SEE CIVIL DRAWINGS
CC	CAPE COD BERM	SEE CIVIL DRAWINGS

WALLS

MW	MODULAR BLOCK RETAINING WALL	12 L5.04
BS	BUILDING IDENTIFICATION SIGN	12 L5.02, 13 L5.03
LD	LOADING DOCK	14 L5.04
CS	CONCRETE STEPS	11 L5.04

SITE FURNISHING DETAILS

B	DECORATIVE BOLLARDS - 50 TOTAL (ALLOW 6 TO BE COLLAPSIBLE)	3 L5.03
S	STEEL PLAY STRUCTURE - SEE SPECIFICATIONS	
WB	BENCH (ALLOW 20 TOTAL)	8 L5.03
FP	40' HT. SPUN ALUMINUM FLAGPOLE	1 L5.03
IS	INTERPRETIVE SIGN	2 L5.02
F	CHAIN LINK FENCE - 6'	2 L5.01
MF	ORNAMENTAL METAL FENCE	1 L5.01
MR	METAL GUARD RAIL	2 L5.01
GR	WOOD GUARD RAIL	6 L5.01
CW	CEDAR TIMBER RAISED GARDEN BED	2 L5.03
BR	BICYCLE RACKS	10 L5.03
WR	TRASH AND RECYCLING RECEPTACLES (ALLOW 2 EACH)	9 L5.03

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No.	Date	Note
1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

ISSUE

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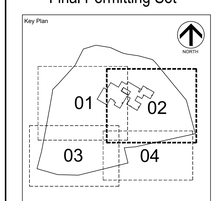
Final Permitting Set

Key Plan



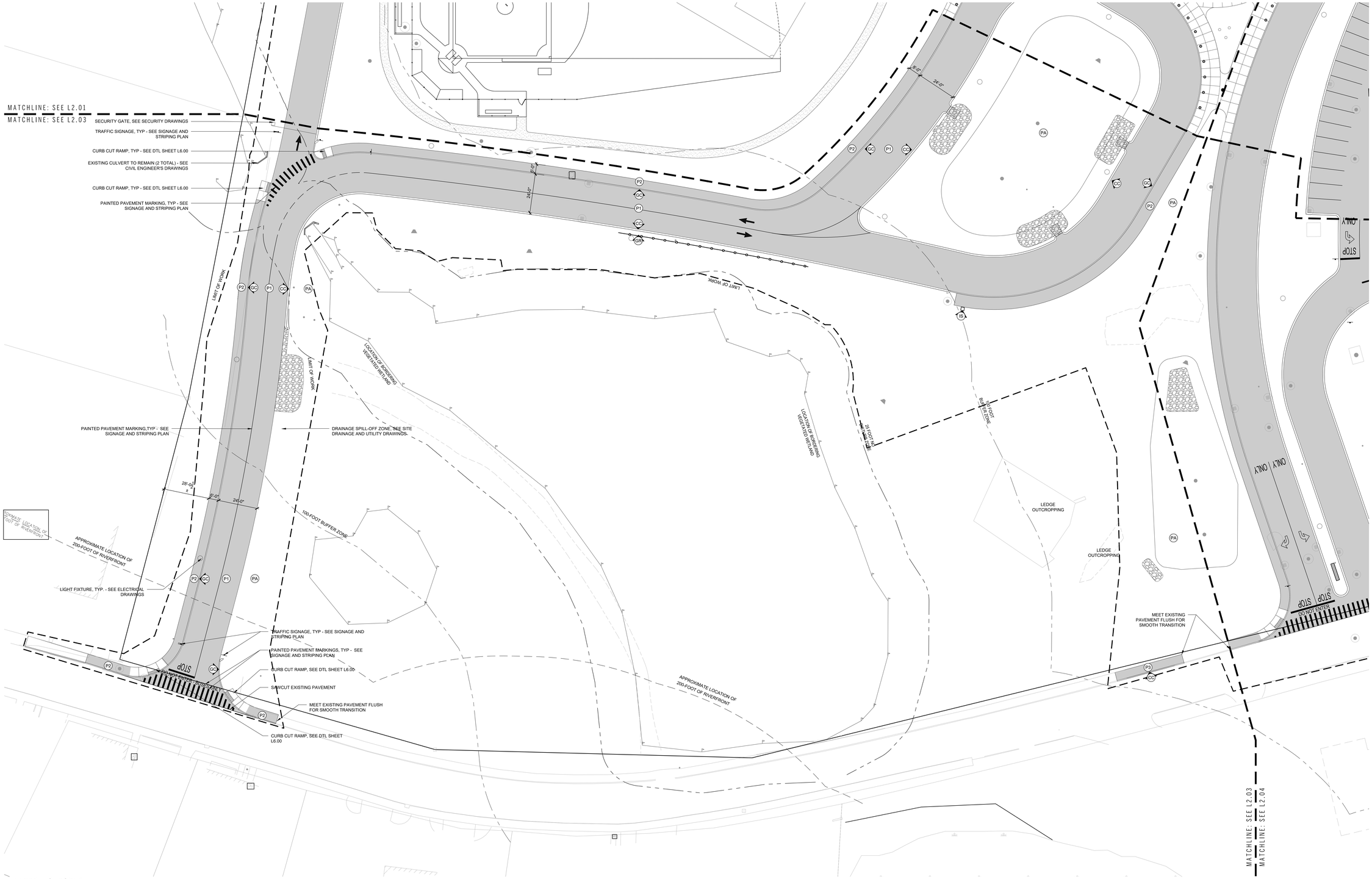
Sheet Title

LAYOUT AND MATERIALS PLAN 2

Drawn By: RI/CCH/MV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 20'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L2.02



MATERIALS LEGEND

PAVING

P1	BITUMINOUS CONCRETE PAVEMENT- VEHICULAR	SEE CIVIL DRAWINGS
P2	BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN	1 L5.00
P3	CONCRETE PAVEMENT - PEDESTRIAN	2 L5.00
P4	CONCRETE PAVEMENT - VEHICULAR	3 L5.00
P5	RESILIENT RUBBER PLAYGROUND SURFACE	5 L5.00
P6	STABILIZED STONEDUST WALKING PATH	4 L5.00
P7	BASKETBALL COURT SURFACING	11 L5.02
DW	DETECTABLE WARNING TILE	8 L5.00
PA	PLANTING AREA	

EDGING

GC	GRANITE CURB	SEE CIVIL DRAWINGS
CC	CAPE COD BERM	SEE CIVIL DRAWINGS

WALLS

RW	MODULAR BLOCK RETAINING WALL	12 L5.00
ES	BUILDING IDENTIFICATION SIGN	12 L5.00, 13 L5.00
LD	LOADING DOCK	14 L5.00
CO	CONCRETE STEPS	15 L5.00

SITE FURNISHING DETAILS

B	DECORATIVE BOLLARDS - 50 TOTAL (ALLOW 6 TO BE COLLAPSIBLE)	3 L5.02
S	STEEL PLAY STRUCTURE - SEE SPECIFICATIONS	
WB	BENCH (ALLOW 20 TOTAL)	6 L5.02
FP	40' HT. SPUN ALUMINUM FLAGPOLE	1 5.02
IS	INTERPRETIVE SIGN	6 L5.02
F	CHAIN LINK FENCE - 6'	5 L5.01
MF	ORNAMENTAL METAL FENCE	1 L5.01
MR	METAL GUARD RAIL	7 L5.01
GR	WOOD GUARD RAIL	6 L5.01
CW	CEDAR TIMBER RAISED GARDEN BED	2 L5.02
BR	BICYCLE RACKS	10 L5.02
WR	TRASH AND RECYCLING RECEPTACLES (ALLOW 2 EACH)	9 L5.02

LAYOUT NOTES

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MATERIALS NOTES

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No.	Date	Note
1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

ISSUE

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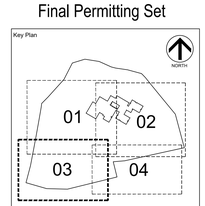
Key Plan



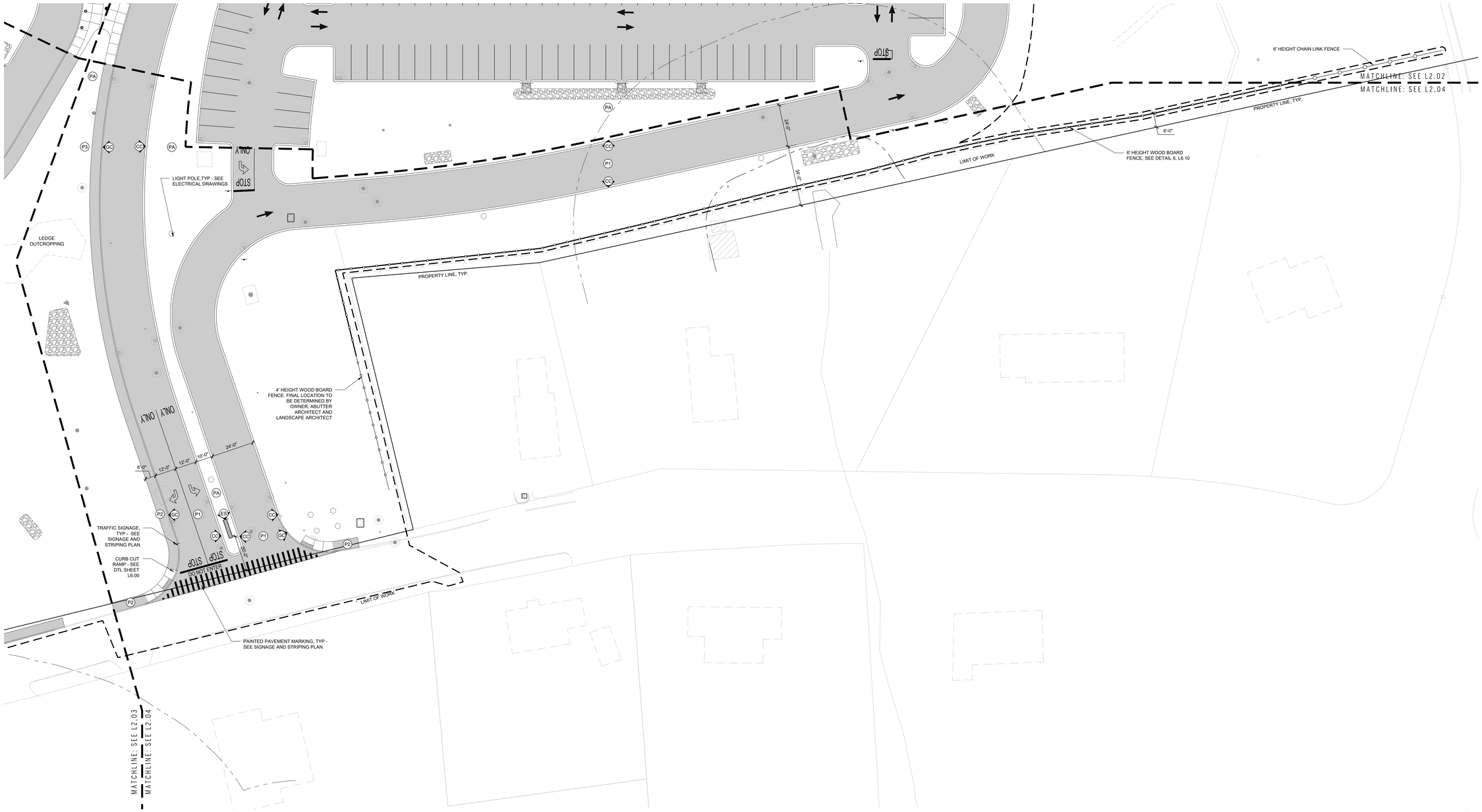
Sheet Title

LAYOUT AND MATERIALS PLAN 3

Drawn By RI/CCH/MV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 20'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

L2.03



MATERIALS LEGEND

PAVING

P1	BITUMINOUS CONCRETE PAVEMENT- VEHICULAR	SEE CIVIL DRAWINGS
P2	BITUMINOUS CONCRETE PAVEMENT - PEDESTRIAN	1 L5.00
P3	CONCRETE PAVEMENT - PEDESTRIAN	2 L5.00
P4	CONCRETE PAVEMENT - VEHICULAR	3 L5.00
P5	RESILIENT RUBBER PLAYGROUND SURFACE	5 L5.00
P6	STABILIZED STONEDUST WALKING PATH	4 L5.00
P7	BASKETBALL COURT SURFACING	11 L5.01
CW	DETECTABLE WARNING TILE	6 L5.00
PA	PLANTING AREA	

EDGING

GC	GRANITE CURB	SEE CIVIL DRAWINGS
CC	CAPE COD BERM	SEE CIVIL DRAWINGS

WALLS

MW	MODULAR BLOCK RETAINING WALL	12 L6.00
ES	BUILDING IDENTIFICATION SIGN	12 L6.02, 13 L6.02
LD	LOADING DOCK	14 L5.00
CD	CONCRETE STEPS	11 L5.00

SITE FURNISHING DETAILS

B	DECORATIVE BOLLARDS - 50 TOTAL (ALLOW 6 TO BE COLLAPSIBLE)	3 L6.02
S	STEEL PLAY STRUCTURE - SEE SPECIFICATIONS	
WB	BENCH (ALLOW 20 TOTAL)	8 L6.02
FP	40' HT. SPUN ALUMINUM FLAGPOLE	1 L6.02
IS	INTERPRETIVE SIGN	6 L6.02
F	CHAIN LINK FENCE - 6'	5 L6.01
MF	ORNAMENTAL METAL FENCE	1 L6.01
MR	METAL GUARD RAIL	2 L6.01
GR	WOOD GUARD RAIL	6 L6.01
CW	CEDAR TIMBER RAISED GARDEN BED	7 L6.02
BR	BICYCLE RACKS	10 L6.02
WR	TRASH AND RECYCLING RECEPTACLES (ALLOW 2 EACH)	9 L6.02

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4. Written dimensions take precedence over scaled dimensions.
5. Dimensions indicated on plans are for horizontal control and are accurate if measured on a level line. Measure horizontal control dimensions on a level line, not parallel with ground slope.
6. All dimensions taken from vertical surfaces, i.e. curbs & walls, are understood to be measured from the face of the vertical element unless otherwise specified.
7. All angles assumed to be 90° unless otherwise specified.

MATERIALS NOTES

1. Make transitions between changes in paving smooth and gradual with no sharp or abrupt changes unless otherwise shown.
2. Refer to landscape specifications for additional requirements.

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1	10.14.2021	Addendum 2

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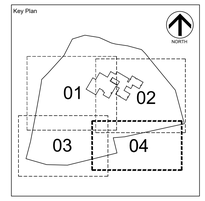


Sheet Title

LAYOUT AND MATERIALS PLAN 4

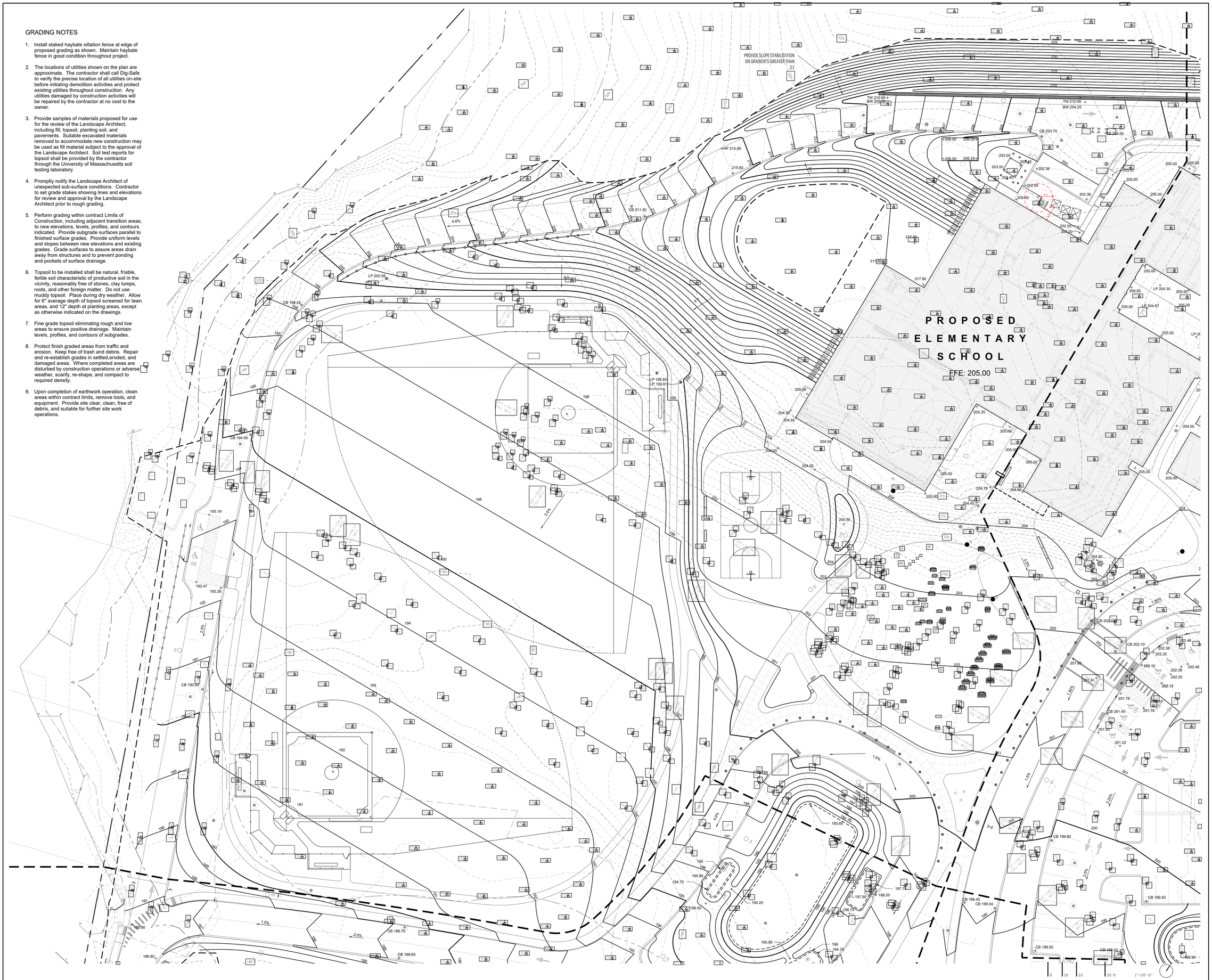
Drawn By: RI/CC/HM/V	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 20'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L2.04

GRADING NOTES

1. Install staked haybale siltation fence at edge of proposed grading as shown. Maintain haybale fence in good condition throughout project.
2. The locations of utilities shown on the plan are approximate. The contractor shall call Dig-Safe to verify the precise location of all utilities on-site before initiating demolition activities and protect existing utilities throughout construction. Any utilities damaged by construction activities will be repaired by the contractor at no cost to the owner.
3. Provide samples of materials proposed for use for the review of the Landscape Architect, including fill, topsoil, planting soil, and pavements. Suitable excavated materials removed to accommodate new construction may be used as fill material subject to the approval of the Landscape Architect. Soil test reports for topsoil shall be provided by the contractor through the University of Massachusetts soil testing laboratory.
4. Promptly notify the Landscape Architect of unexpected sub-surface conditions. Contractor to set grade stakes showing lines and elevations for review and approval by the Landscape Architect prior to rough grading.
5. Perform grading within contract Limits of Construction, including adjacent transition areas, to new elevations, levels, profiles, and contours indicated. Provide subgrade surfaces parallel to finished surface grades. Provide uniform levels and slopes between new elevations and existing grades. Grade surfaces to assure areas drain away from structures and to prevent ponding and pockets of surface drainage.
6. Topsoil to be installed shall be natural, friable, fertile soil characteristic of productive soil in the vicinity, reasonably free of stones, clay lumps, roots, and other foreign matter. Do not use muddy topsoil. Place during dry weather. Allow for 6" average depth of topsoil screened for lawn areas, and 12" depth at planting areas, except as otherwise indicated on the drawings.
7. Fine grade topsoil eliminating rough and low areas to ensure positive drainage. Maintain levels, profiles, and contours of subgrades.
8. Protect finish graded areas from traffic and erosion. Keep free of trash and debris. Repair and re-establish grades in settled,eroded, and damaged areas. Where completed areas are disturbed by construction operations or adverse weather, scarify, re-shape, and compact to required density.
9. Upon completion of earthwork operation, clean areas within contract limits, remove tools, and equipment. Provide site clear, clean, free of debris, and suitable for further site work operations.



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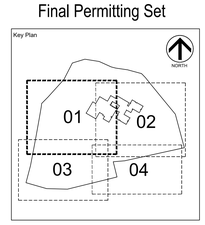

Sheet Title

GRADING PLAN 1

Drawn By RI/CCH/MV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 20'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

L3.01

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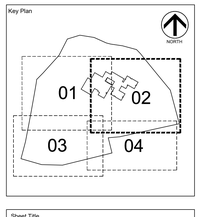

Sheet Title

GRADING PLAN 2

Drawn By RI/CCH/MV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 20'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

L3.02

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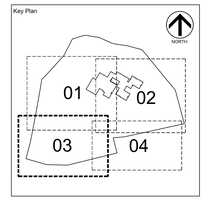

Sheet Title

GRADING PLAN 3

Drawn By: RI/CCH/MV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 20'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L3.03

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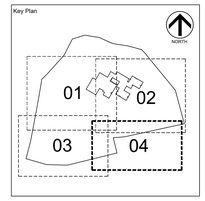

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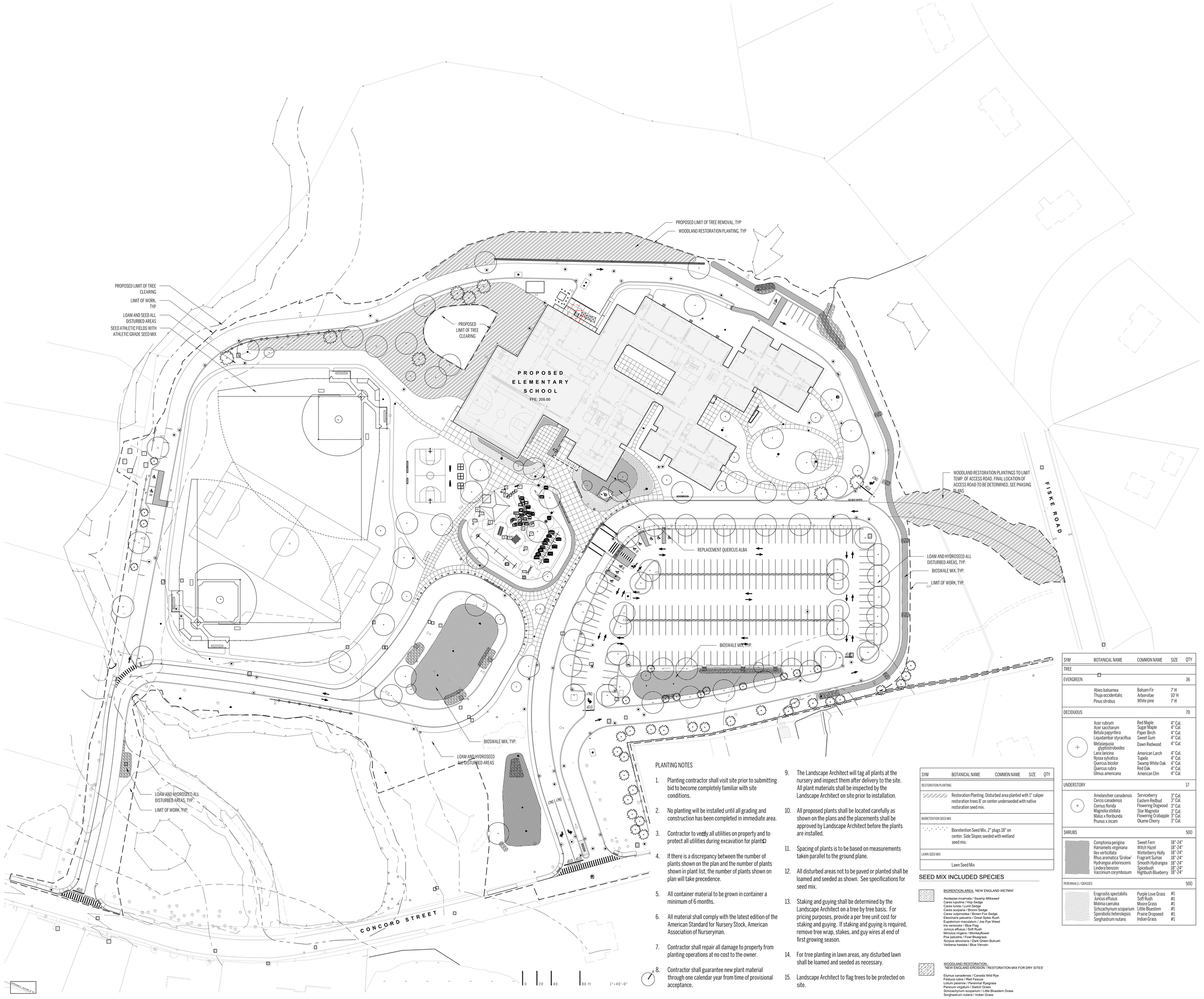
GRADING PLAN 4

Drawn By: RI/CCH/MV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 20'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L3.04



PLANTING NOTES

1. Planting contractor shall visit site prior to submitting bid to become completely familiar with site conditions.
2. No planting will be installed until all grading and construction has been completed in immediate area.
3. Contractor to verify all utilities on property and to protect all utilities during excavation for plants.
4. If there is a discrepancy between the number of plants shown on the plan and the number of plants shown in plant list, the number of plants shown on plan will take precedence.
5. All container material to be grown in container a minimum of 6 months.
6. All material shall comply with the latest edition of the American Standard for Nursery Stock, American Association of Nurseryman.
7. Contractor shall repair all damage to property from planting operations at no cost to the owner.
8. Contractor shall guarantee new plant material through one calendar year from time of provisional acceptance.
9. The Landscape Architect will tag all plants at the nursery and inspect them after delivery to the site. All plant materials shall be inspected by the Landscape Architect on site prior to installation.
10. All proposed plants shall be located carefully as shown on the plans and the placements shall be approved by Landscape Architect before the plants are installed.
11. Spacing of plants is to be based on measurements taken parallel to the ground plane.
12. All disturbed areas not to be paved or planted shall be loamed and seeded as shown. See specifications for seed mix.
13. Staking and guying shall be determined by the Landscape Architect on a tree by tree basis. For pricing purposes, provide a per tree unit cost for staking and guying. If staking and guying is required, remove tree wrap, stakes, and guy wires at end of first growing season.
14. For tree planting in lawn areas, any disturbed lawn shall be loamed and seeded as necessary.
15. Landscape Architect to flag trees to be protected on site.

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY
RESTORATION PLANTING				
	Restoration Planting, Disturbed area planted with 1" caliper restoration trees 8' on center underseeded with native restoration seed mix.			
BIORETENTION SEED MIX				
	Bioretention Seed Mix, 2" plugs 18" on center. Side Slopes seeded with wetland seed mix.			
LAWN SEED MIX				
	Lawn Seed Mix			

SEED MIX INCLUDED SPECIES

BIORENTION AREA: 'NEW ENGLAND WETMIX'

Asclepias incarnata / Swamp Milkweed
Carex lupulina / Hop Sedge
Carex lurida / Lurid Sedge
Carex scoparia / Broom Sedge
Carex vulpinoidea / Brown Fox Sedge
Eleocharis palustris / Great Spike Rush
Eupatorium maculatum / Joe Pye Weed
Iris versicolor / Blue Flag
Juncus effusus / Soft Rush
Mimulus ringens / Monkeyflower
Poa palustris / Fowl Bluegrass
Scirpus atrovirens / Dark Green Bulrush
Verbena hastata / Blue Vervain

WOODLAND RESTORATION : 'NEW ENGLAND EROSION / RESTORATION MIX FOR DRY SITES'

Elymus canadensis / Canada Wild Rye
Festuca rubra / Red Fescue
Lolium perenne / Perennial Ryegrass
Panicum virgatum / Switch Grass
Schizachyrium scoparium / Little Bluestem Grass
Sorghastrum nutans / Indian Grass

SYM	BOTANICAL NAME	COMMON NAME	SIZE	QTY
TREE				
EVERGREEN				35
	Abies balsamea	Balsam Fir	7' H	
	Thuja occidentalis	Arborvitae	10' H	
	Pinus strobus	White pine	7' H	
DECIDUOUS				70
	Acer rubrum	Red Maple	4" Cal.	
	Acer saccharum	Sugar Maple	4" Cal.	
	Betula papyrifera	Paper Birch	4" Cal.	
	Liquidambar styraciflua	Sweet Gum	4" Cal.	
	Metasequoia glyptostroboides	Dawn Redwood	4" Cal.	
	Larix laricina	American Larch	4" Cal.	
	Nyssa sylvatica	Tupelo	4" Cal.	
	Quercus bicolor	Swamp White Oak	4" Cal.	
	Quercus rubra	Red Oak	4" Cal.	
	Ulmus americana	American Elm	4" Cal.	
UNDERSTORY				17
	Amelanchier canadensis	Serviceberry	3" Cal.	
	Cercis canadensis	Eastern Redbud	3" Cal.	
	Cornus florida	Flowering Dogwood	3" Cal.	
	Magnolia stellata	Star Magnolia	3" Cal.	
	Malus x floribunda	Flowering Crabapple	3" Cal.	
	Prunus x incam	Okame Cherry	3" Cal.	
SHRUBS				500
	Comptonia perigina	Sweet Fern	18"-24"	
	Hamamelis virginiana	Witch Hazel	18"-24"	
	Ilex verticillata	Winterberry Holly	18"-24"	
	Rhus aromatica 'Grolow'	Fragrant Sumac	18"-24"	
	Hydrangea arborescens	Smooth Hydrangea	18"-24"	
	Lindera benzoin	Spicebush	18"-24"	
	Vaccinium corymbosum	Highbush Blueberry	18"-24"	
PERENNIALS / GRASSES				500
	Eragrostis spectabilis	Purple Love Grass	#1	
	Juncus effusus	Soft Rush	#1	
	Molinia caerulea	Moore Grass	#1	
	Schizachyrium scoparium	Little Bluestem	#1	
	Sporobolis heterolepsis	Prairie Dropseed	#1	
	Sorghastrum nutans	Indian Grass	#1	

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OVERALL PLANTING PLAN

Drawn By RJC/CHMV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 40'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

L4.00

TREE PROTECTION LEGEND

X — EXISTING TREE OR SITE FEATURE TO BE REMOVED, INCLUDING ALL SUBGRADE MATERIALS

(P) — EXISTING TREES TO REMAIN BE PROTECTED SEE DTL 1/L1.1

EXISTING TREE TO BE PROTECTED WITH NON MOVABLE STEEL CONSTRUCTION FENCE. SEE 2/L1.1

REMOVE VEGETATION

TREES TO BE PRESERVED

REMOVE VEGETATION

LIMIT OF WORK , TYP.

CAREFULLY REMOVE EXISTING OAK TREE PER GUIDELINES SET BY THE TOWN OF ASHLAND AND DCR. SEE CIVIL DRAWINGS FOR GRAVE SITE PROTECTION AND EROSION CONTROL MEASURES

LIMIT OF WORK , TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

LIMIT OF WORK , TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

LIMIT OF WORK , TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

EXTEND TREE PROTECTION FENCE TO DRIPLINE WHEN POSSIBLE, TYP.

0 20 40 80 ft 1" = 40'-0"

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TREE PROTECTION AND REMOVAL PLAN

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Reviewed By: EM/SSA	Scale: 1" = 40'-0"
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Sheet No.

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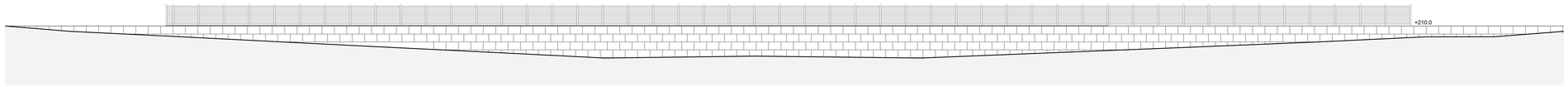
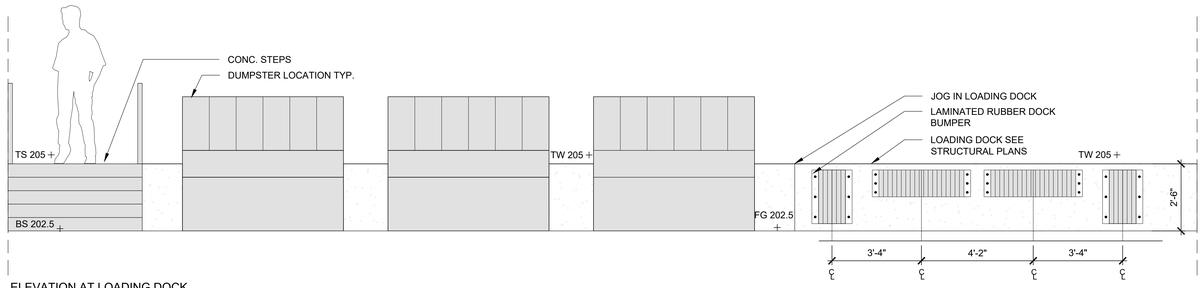
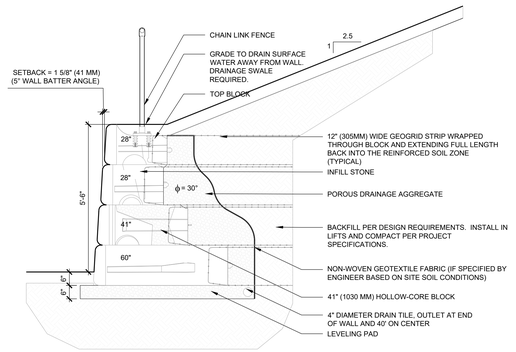


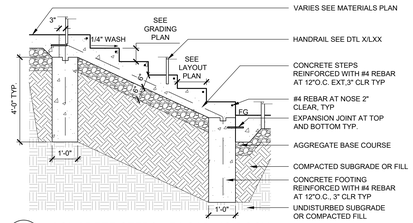
13 WALL ELEVATION
1/8"=1'-0"



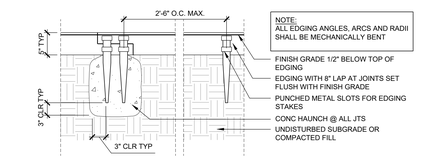
14 ELEVATION AT LOADING DOCK
1/2"=1'-0"



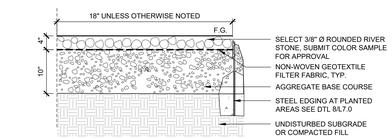
12 MODULAR WALL
1/2"=1'-0"



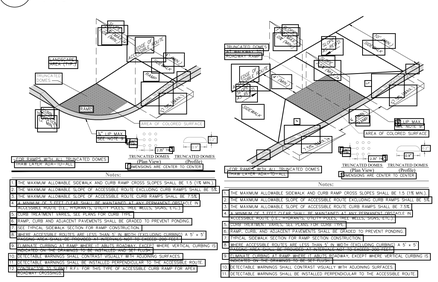
11 CONCRETE STEPS AT LOADING DOCK
1/2"=1'-0"



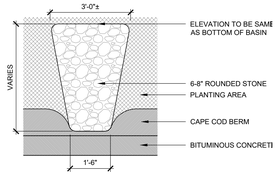
10 STEEL EDGING
1"=1'-0"



9 MAINTENANCE EDGE
1"=1'-0"

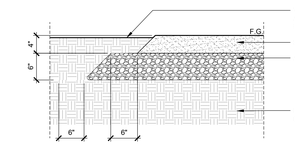


8 ADA CURB CUT
1"=1'-0"

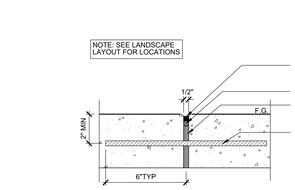


7 DRAIN INLET FOR CAPE COD BERM
1/2"=1'-0"

6 ALTERNATE: P5 CONCRETE UNIT PAVERS
1"=1'-0"

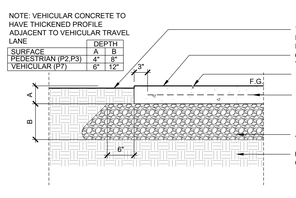


5 P.I.P. RUBBER PLAYING SURFACE
1"=1'-0"

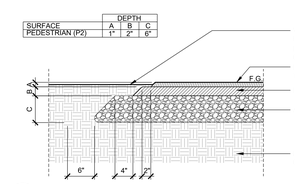


4 STABILIZED STONEDUST WALKING PATH
1"=1'-0"

3 CONCRETE JOINTS
3"=1'-0"



2 P3 + P4 + P5 CONCRETE PAVEMENT
1"=1'-0"



1 P2 BITUMINOUS CONCRETE - PEDESTRIAN
1"=1'-0"

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Hingham, Massachusetts 02043

No.	Date	Note
1	10.14.2021	Addendum 2
		REVISIONS
No.	Date	Note
		ISSUE

Stamp

Final Permitting Set

Key Plan

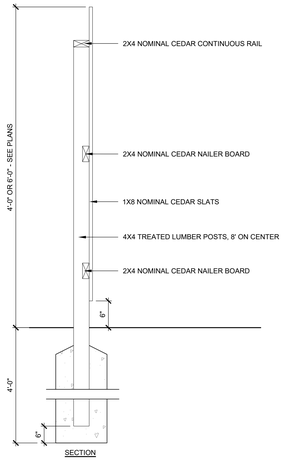
Sheet Title

PAVING WALL AND STAIR DETAILS

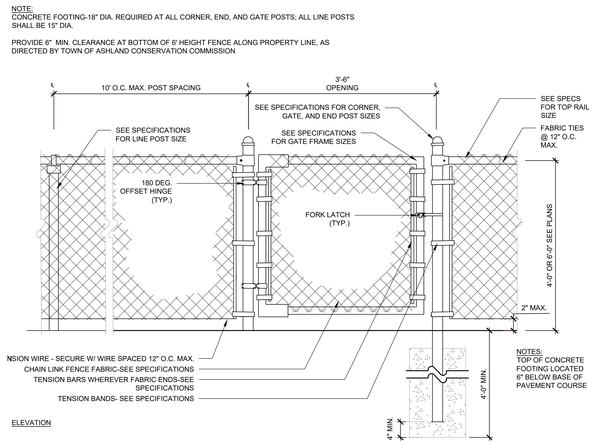
Drawn By	Project ID
RI/CC/HMV	1914.00
Reviewed By	Scale
EM/SSA	AS NOTED
Issue Date	Plot Date
11.19.2021	11.19.2021

Sheet No.

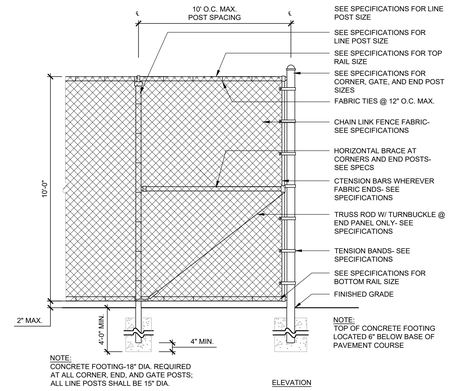
L5.00



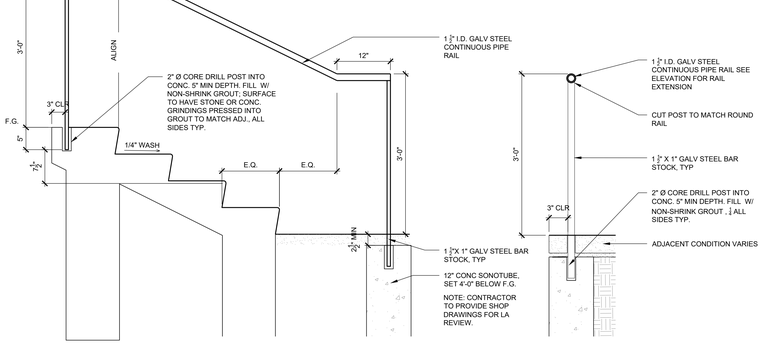
6 WOOD PRIVACY FENCE
NTS



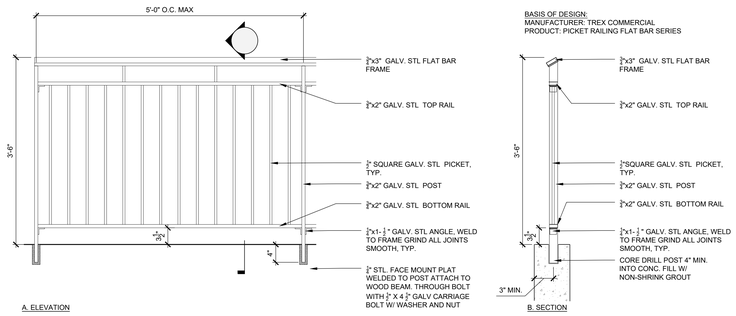
5 CHAIN LINK FENCE AND GATE
NTS



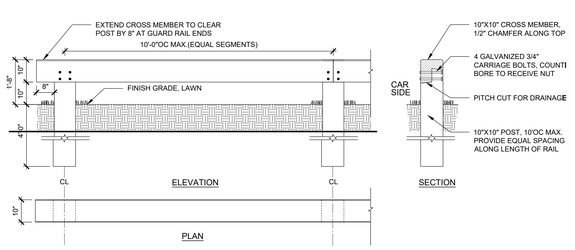
4 10' CHAIN LINK FENCE
NTS



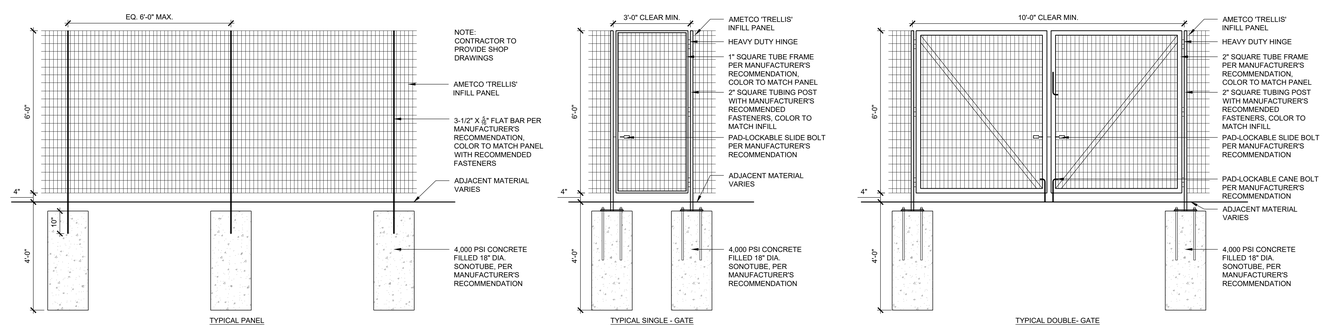
3 HANDRAIL AT LOADING DOCK
1"=1'-0"



2 METAL GUARD RAIL AT LOADING DOCK
1"=1'-0"



6 TIMBER GUARD RAIL
1/2"=1'-0"



1 AMETCO METAL FENCE AND GATES
1/2"=1'-0"

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No.	Date	Note
1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

ISSUE

Stamp

Final Permitting Set

Key Plan

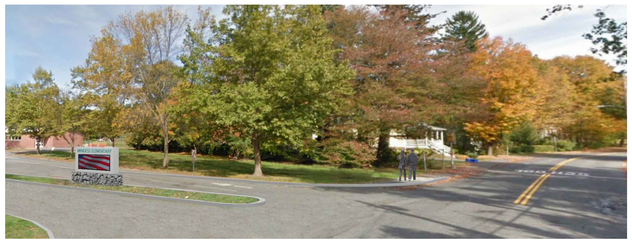
Sheet Title

FENCE, HANDRAIL, AND GUARDRAIL DETAILS

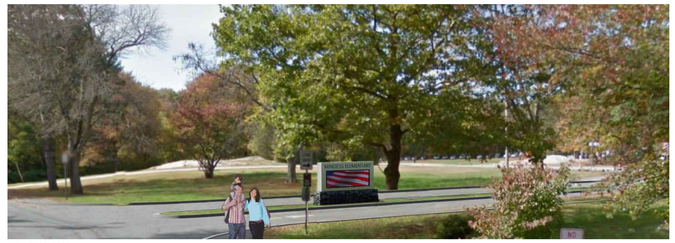
Drawn By RI/CC/HMV	Project ID 1914.00
Reviewed By EM/SSA	Scale 1" = 40'-0"
Issue Date 11.19.2021	Plot Date 11.19.2021

Sheet No.

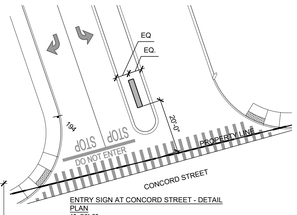
L5.01



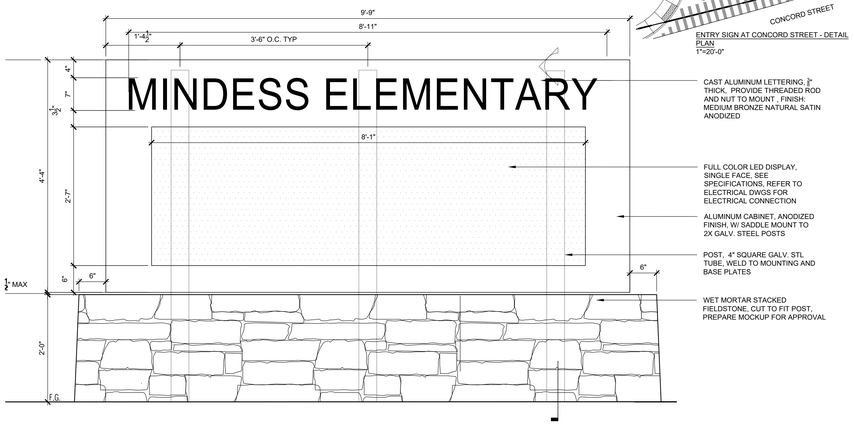
VIEW FROM WEST
NTS

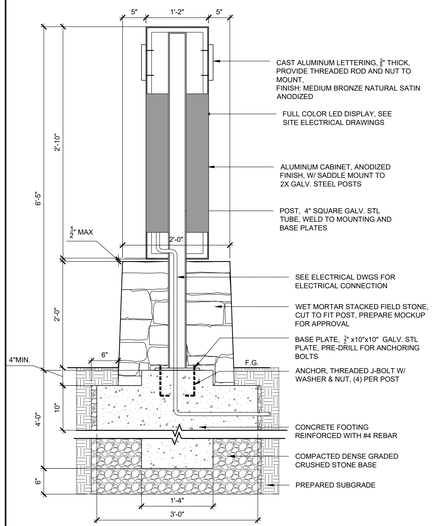


VIEW FROM EAST
NTS



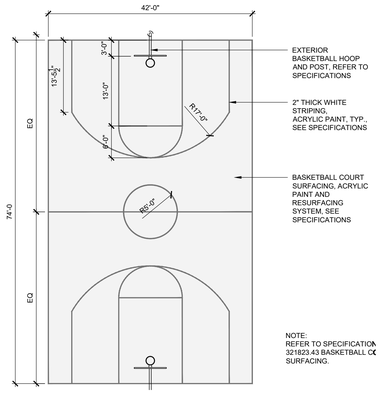
ENTRY SIGN AT CONCORD STREET - DETAIL PLAN
1"=20'-0"





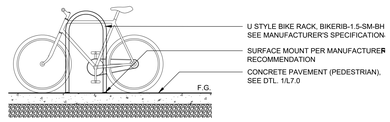
13 DIGITAL ENTRY SIGN TYPICAL SECTION
1"=1'-0"

12 DIGITAL ENTRY SIGN ELEVATION
1"=1'-0"

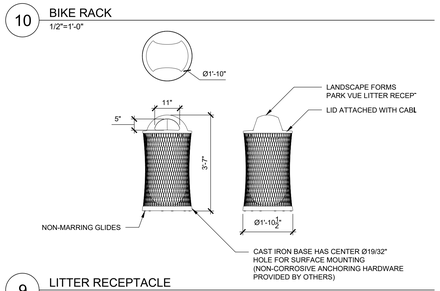


NOTE:
REFER TO SPECIFICATION 321823.43 BASKETBALL COURT SURFACING.

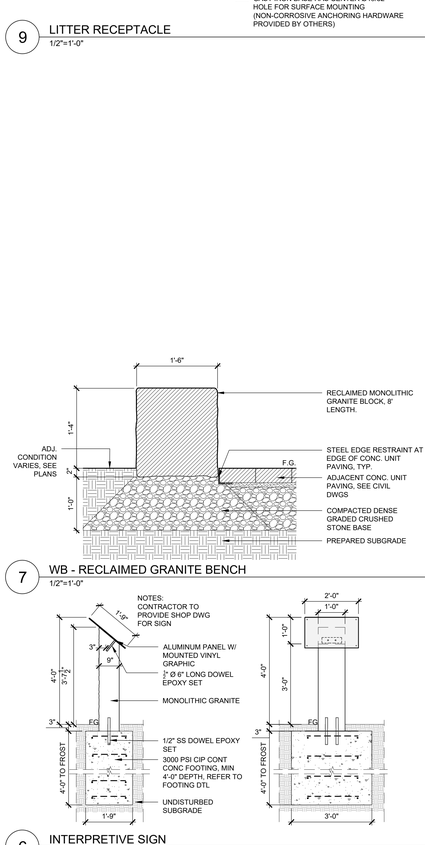
11 BASKETBALL COURT
1"=1'-0"



10 BIKE RACK
1/2"=1'-0"

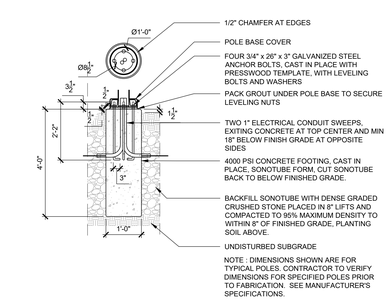


9 LITTER RECEPTACLE
1/2"=1'-0"



7 WB - RECLAIMED GRANITE BENCH
1/2"=1'-0"

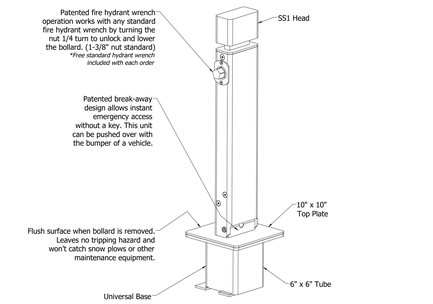
6 INTERPRETIVE SIGN
1/2"=1'-0"



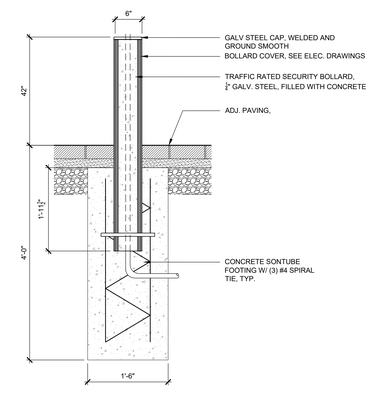
NOTE : DIMENSIONS SHOWN ARE FOR TYPICAL POLES. CONTRACTOR TO VERIFY DIMENSIONS FOR SPECIFIED POLES PRIOR TO FABRICATION. SEE MANUFACTURER'S SPECIFICATIONS.

5 LIGHTPOLE BASE
1/2"=1'-0"

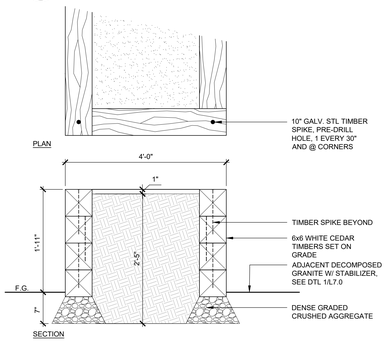
AHJ approved in many cities / counties / campuses for use in fire lanes per International Fire Code (IFC) 503



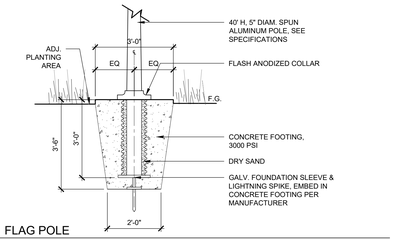
4 COLLAPSIBLE BOLLARD
1"=1'-0"



3 BOLLARD
1"=1'-0"



2 RAISED WOOD GARDEN BED
1"=1'-0"



1 FLAG POLE
1"=1'-0"

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No.	Date	Note
1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

ISSUE

Stamp

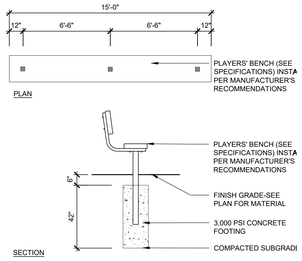
Final Permitting Set

Key Plan

Sheet Title
SITE FURNISHINGS DETAILS

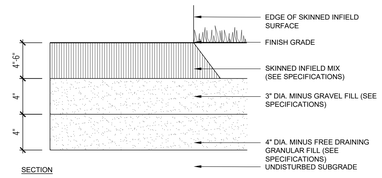
Drawn By: RI/CCH/MV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale: 1" = 40'-0"
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.
L5.02



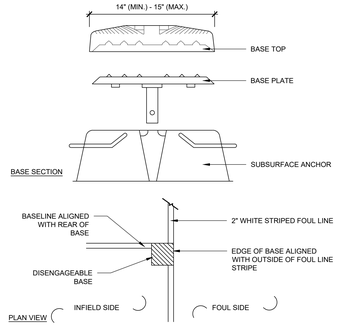
10 PLAYER'S BENCH INSTALLATION
NTS

NOTES:
1. REMOVE FULL DEPTH OF EXISTING LOAM AS PER SITE CLEARING AND EARTHWORK SPECIFICATIONS.
2. AVOID OVERCOMPACTION OF EXISTING SUBGRADE.
3. SCARIFY EXISTING SUBGRADE BEFORE INSTALLATION OF SKINNED BASEBALL INFIELD MATERIALS.
4. INSTALL FREE-DRAINING GRANULAR FILL TO A LEVEL OF 8"-10" BELOW FINISH GRADE, DEPENDING ON LOCATION (SEE SPECIFICATIONS FOR LOCATION DEPTHS).
5. INSTALL GRAVEL FILL TO A LEVEL OF 4"-6" BELOW FINISH GRADE, DEPENDING ON LOCATION (SEE SPECIFICATIONS FOR LOCATION DEPTHS).
6. INSTALL INFIELD MIX TO FINISH GRADE (SEE SPECIFICATIONS FOR LOCATION DEPTHS).
7. TREAT SUBGRADE AND SAND WITH APPROVED HERBICIDE.

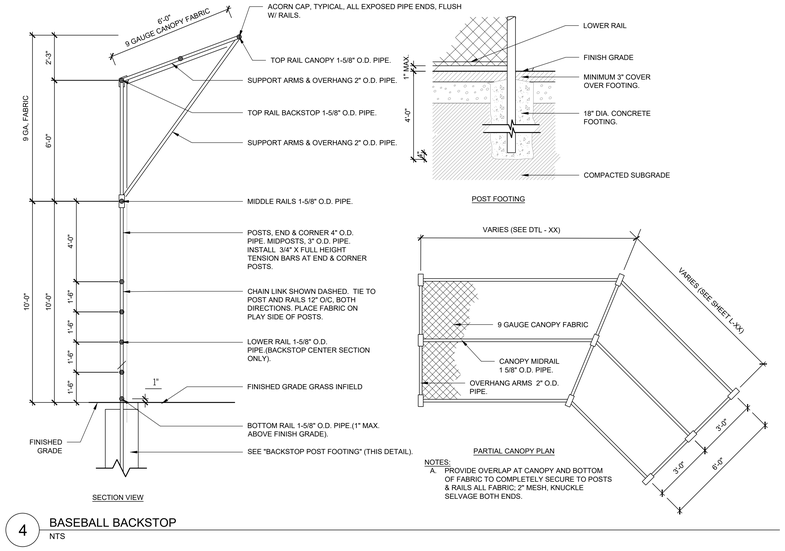


9 SKINNED BASEBALL INFIELD
NTS

NOTE:
1. THE LAYOUT SHOWN IS FOR THE FIRST BASE SIDE. THE THIRD BASE SIDE IS A MIRROR IMAGE OF THE LAYOUT SHOWN BELOW.
2. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
3. BASES:
- INSTALL BASE TOP 1" BELOW PLAYING SURFACE.



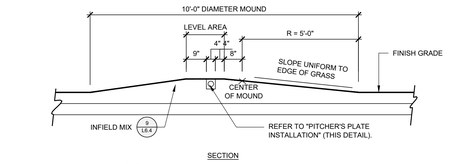
8 DISENGAGEABLE BASE INSTALLATION
NTS

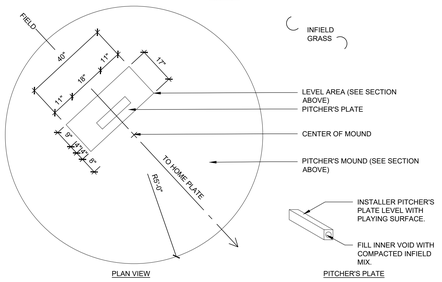


NOTES:
A PROVIDE OVERLAP AT CANOPY AND BOTTOM OF FABRIC TO COMPLETELY SECURE TO POSTS & RAILS ALL FABRIC; 2" MESH, KNUCKLE SELVAGE BOTH ENDS.

4 BASEBALL BACKSTOP
NTS

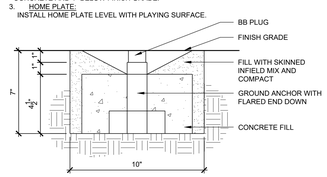
NOTE:
1. SET TOP OF PITCHER'S PLATE 6" ABOVE ELEVATION OF HOME PLATE.



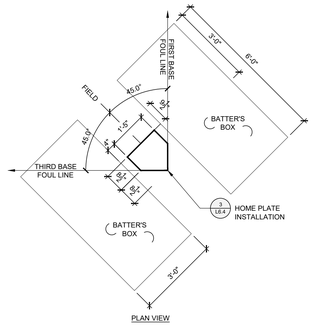


7 PITCHER'S MOUND FOR 60' BASEBALL DIAMOND
NTS

NOTE:
1. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.
2. TOP OF GROUND ANCHOR SHOULD BE 1" ABOVE TOP OF CONCRETE AND 1" BELOW FINISH GRADE.
3. HOME PLATE:
INSTALL HOME PLATE LEVEL WITH PLAYING SURFACE.

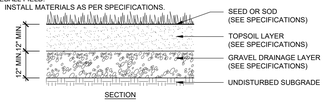


6 HOME PLATE INSTALLATION
NTS



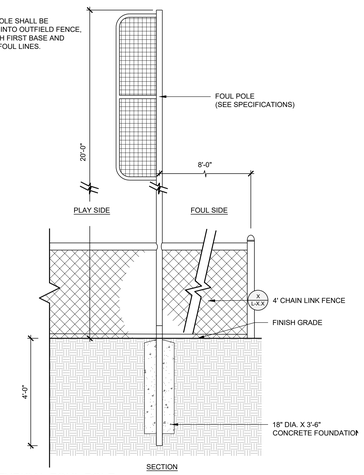
5 HOME PLATE AREA FOR 60' BASEBALL DIAMOND
NTS

NOTES:
1. REMOVE FULL DEPTH OF EXISTING LOAM AS PER SITE CLEARING AND EARTHWORK SPECIFICATIONS.
2. AVOID OVERCOMPACTION OF EXISTING SUBGRADE.
3. SCARIFY EXISTING SUBGRADE BEFORE INSTALLATION OF SEED OR SOD AREAS FOR BASEBALL FIELD.
4. INSTALL MATERIALS AS PER SPECIFICATIONS.

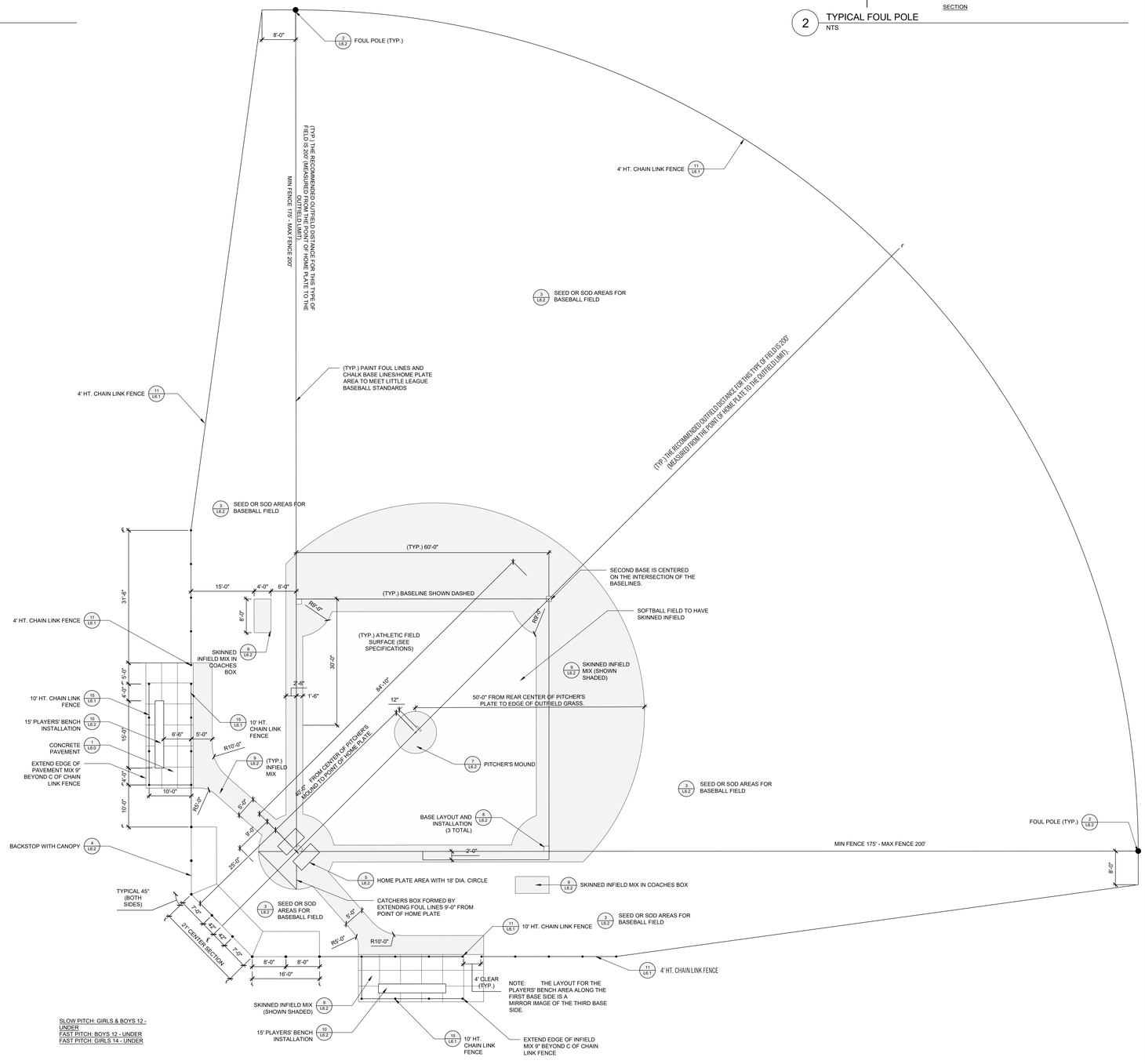


3 SEED OR SOD AREAS FOR BASEBALL FIELD
NTS

NOTES:
A. FOUL POLE SHALL BE INTEGRATED INTO OUTFIELD FENCE, ALIGNED WITH FIRST BASE AND THIRD BASE FOUL LINES.



2 TYPICAL FOUL POLE
NTS



1 BASEBALL FIELD LAYOUT
NTS

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No.	Date	Note
1	10.14.2021	Addendum 2
		REVISIONS

No.	Date	Note
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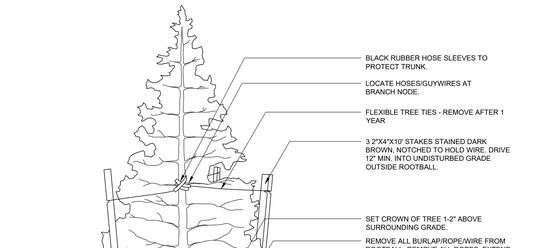
Sheet Title
BASEBALL FIELD LAYOUT & DETAILS

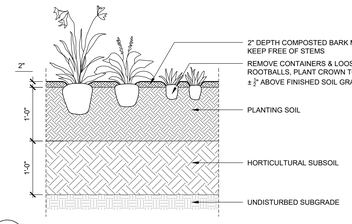
Drawn By: RI/CCH/MV	Project ID: 1914.00
Reviewed By: EM/SSA	Scale
Issue Date: 11.19.2021	Plot Date: 11.19.2021
Sheet No.	

L5.03

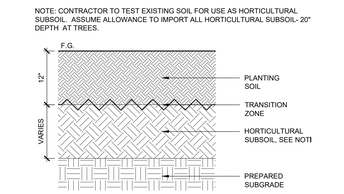
6 GROUNDCOVER PLANTING
1"=1'-0"



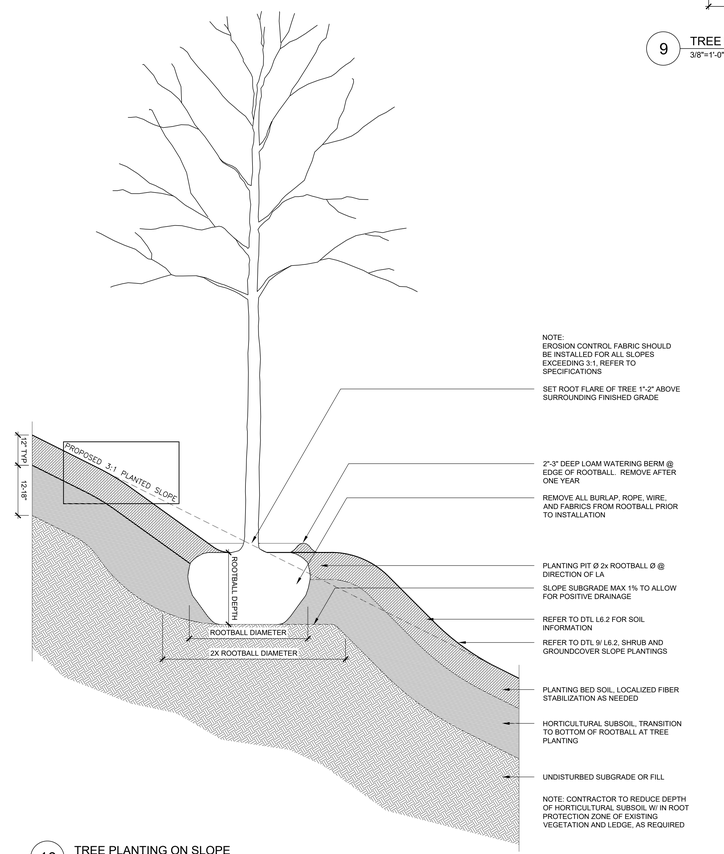
9 TREE PLANTING, EVERGREEN
3/8"=1'-0"



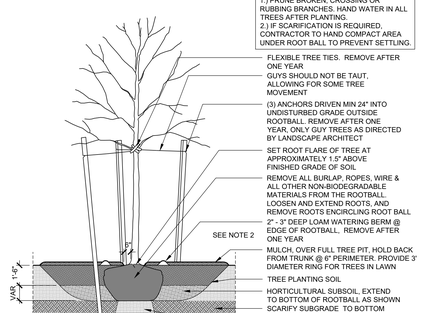
5 PERENNIAL AND GROUNDCOVER PLANTING
1"=1'-0"



4 TREE SOIL PROFILE
1"=1'-0"

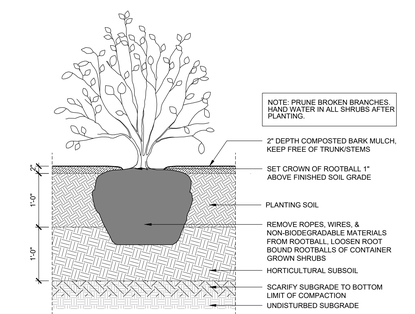


10 TREE PLANTING ON SLOPE
1/2"=1'-0"

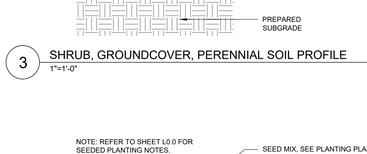


8 DECIDUOUS TREE PLANTING
1"=1'-0"

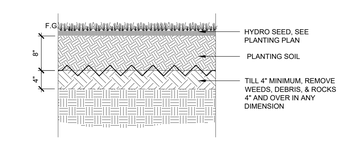
3 SHRUB, GROUNDCOVER, PERENNIAL SOIL PROFILE
1"=1'-0"



7 SHRUB PLANTING
1"=1'-0"



2 MEADOW SOIL PROFILE
1"=1'-0"



1 LAWN SOIL PROFILE
1"=1'-0"

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1	10.14.2021	Addendum 2

REVISIONS

No.	Date	Note

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PLANTING DETAILS

Drawn By: RI/CC/HM/V	Project ID: 1914.00
Reviewed By: EM/SSA	Scale
Issue Date: 11.19.2021	Plot Date: 11.19.2021

Sheet No.

L5.04

ASHLAND – DAVID MINDESS ELEMENTARY SCHOOL

Preliminary Logistics – PHASE 'Zero': October – January

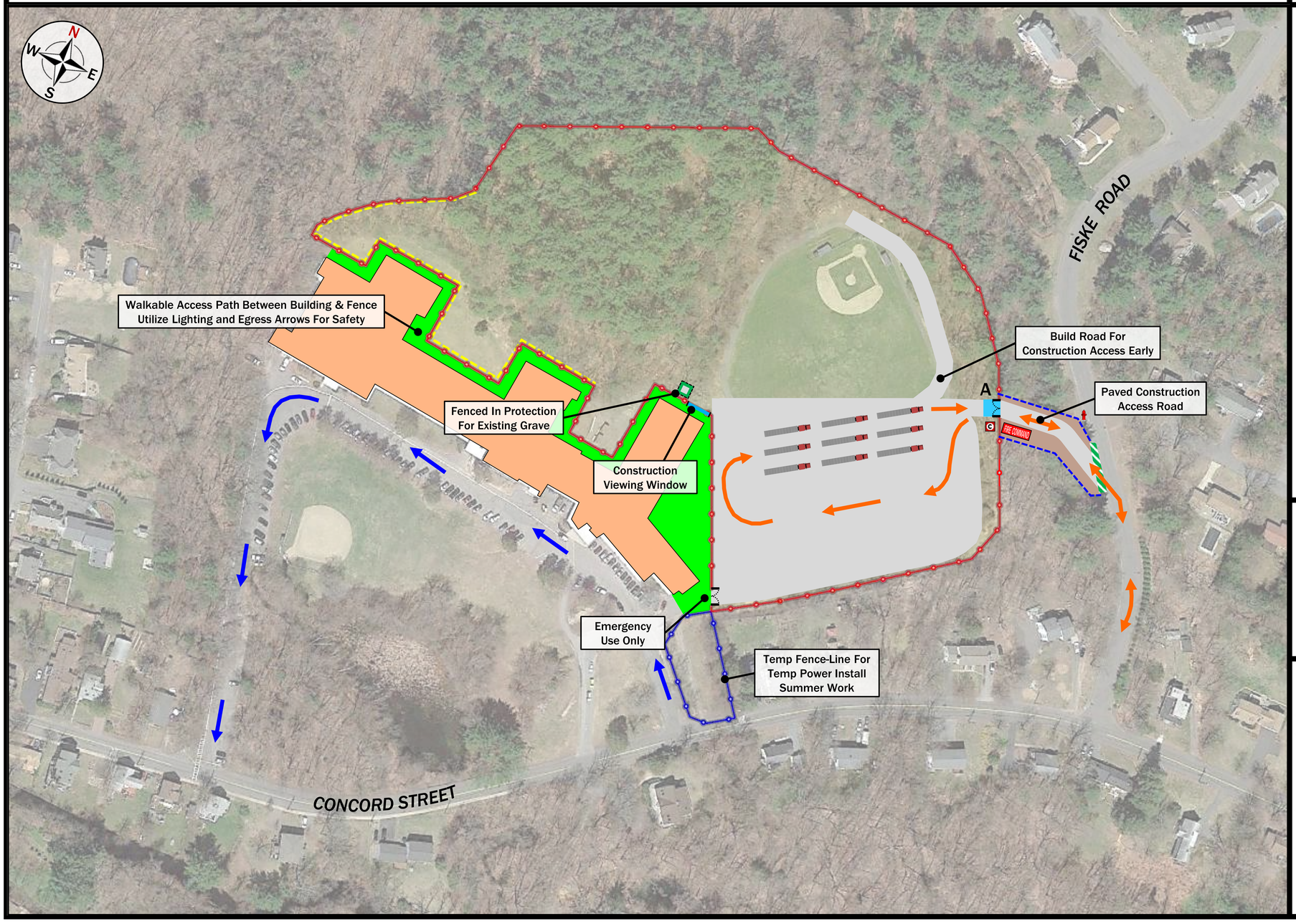

Diagram Key:

- Site Fence w/Scrim
- School Traffic
- Construction Traffic
- Swing Gate Access
- Wheel-Wash Station
- COVID-19 Check-In
- Hand Wash Station
- Worker Toilets
- Dumpster / Recycling
- Trade Storage Boxes
- Owner Site Office
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Project Notes:

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		REVISIONS

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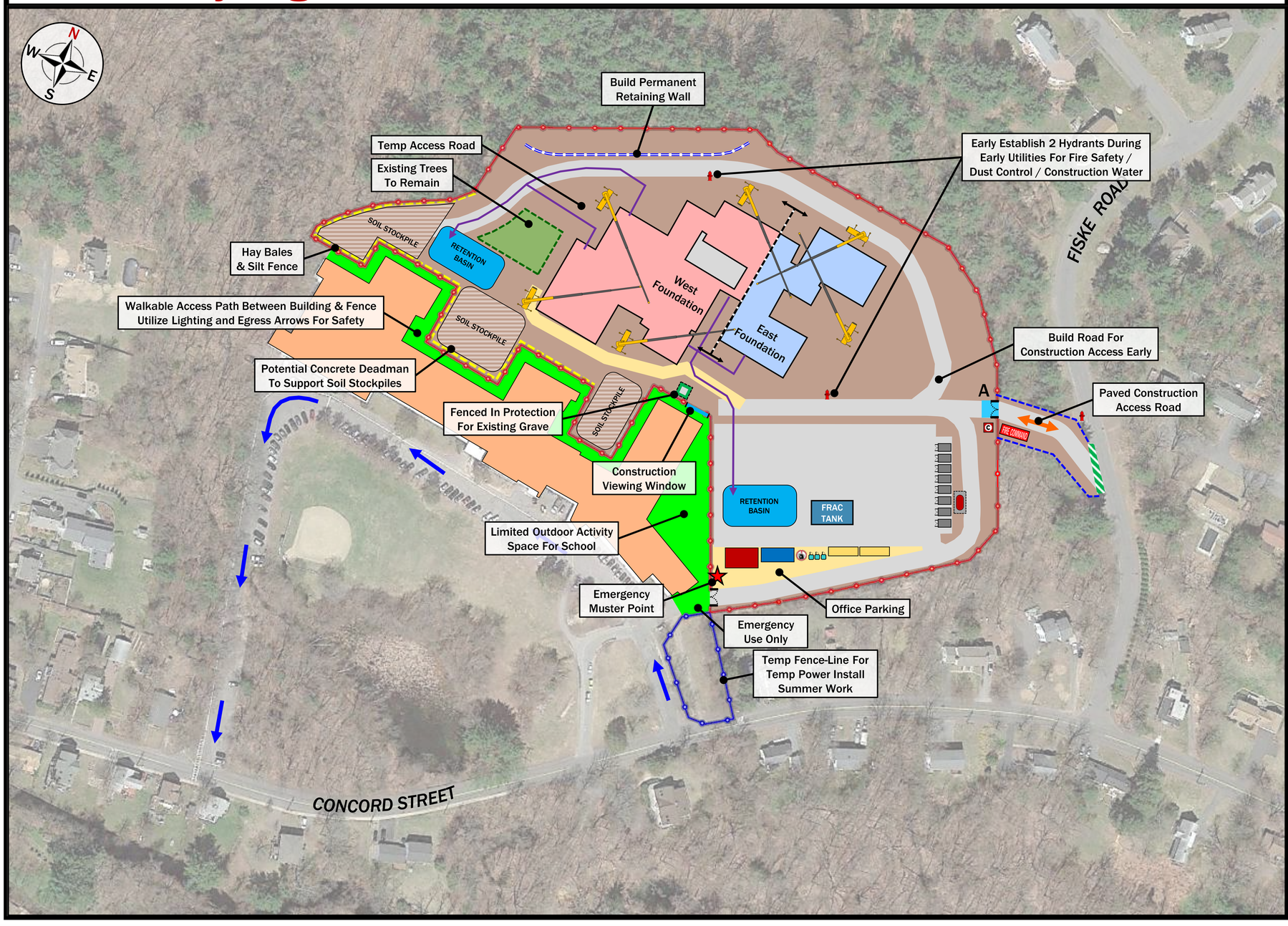
Sheet Title
Phase 'Zero': October - January

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/16"=1'-0"
Issue Date 09.01.2021	Plot Date 09.01.2021

Sheet No.
PH.0

ASHLAND – DAVID MINDESS ELEMENTARY SCHOOL

Preliminary Logistics – PHASE 1: New Construction



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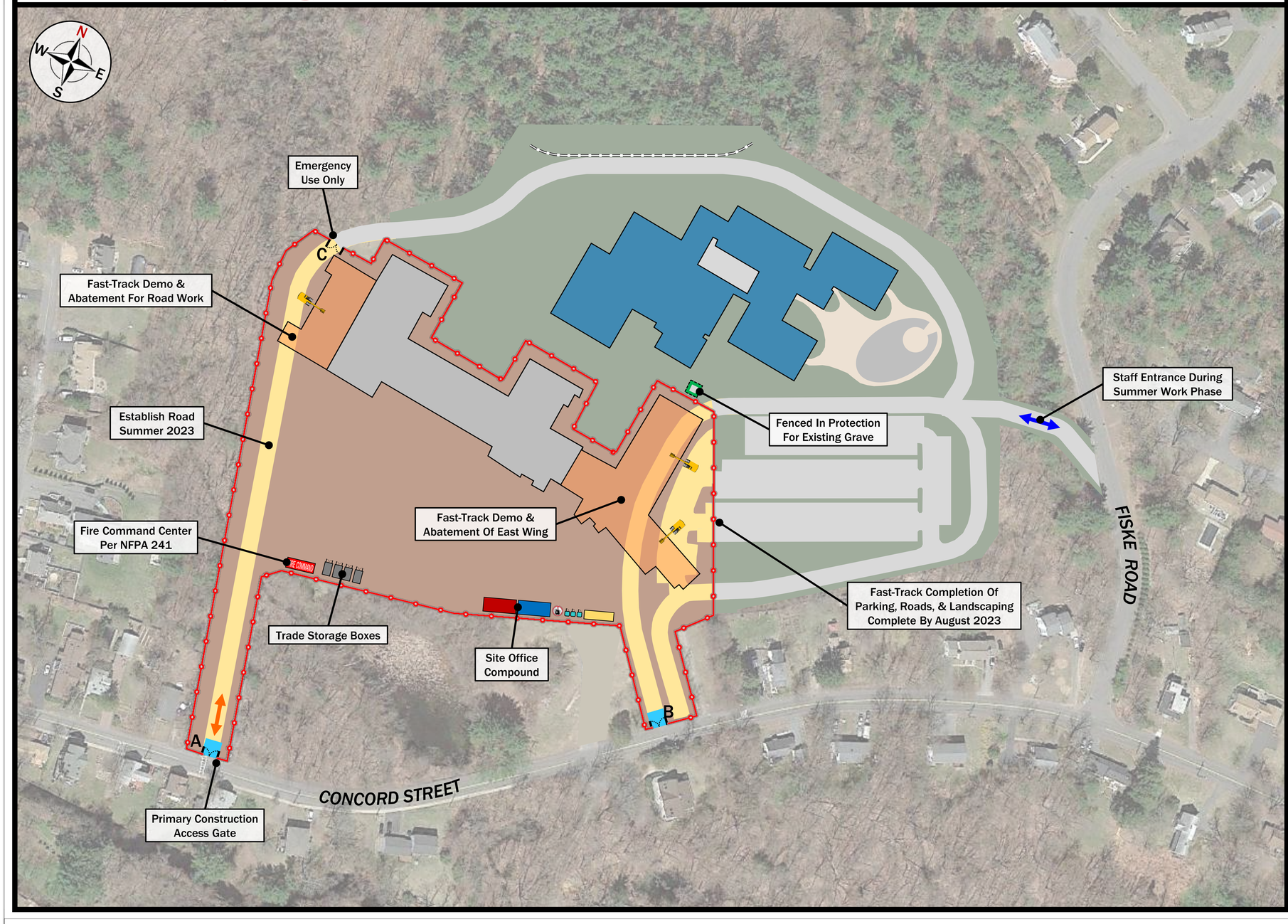
Sheet Title
Phase 1: New Construction

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/16"=1'-0"
Issue Date 09.02.2021	Plot Date 09.01.2021

Sheet No.
PH.1

ASHLAND – DAVID MINDESS ELEMENTARY SCHOOL

Preliminary Logistics – PHASE 2A: Demo & Site Prep



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Key Plan

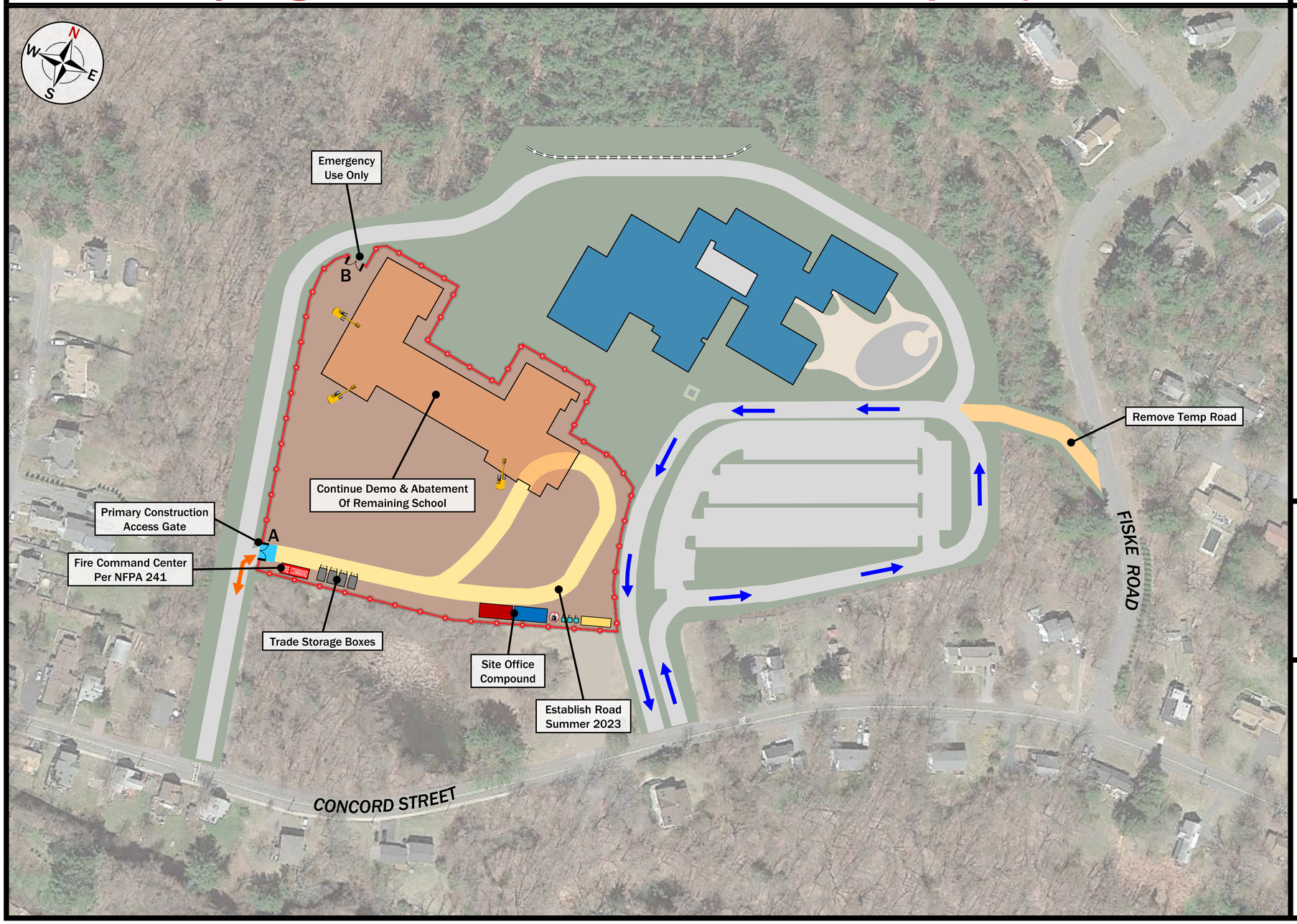
Sheet Title: Phase 2A: Demo & Site Prep

Drawn By	Project ID: 1914.00
Reviewed By: FAI	Scale: 1/16"=1'-0"
Issue Date: 09.01.2021	Plot Date: 09.01.2021
Sheet No.	

PH.2

ASHLAND – DAVID MINDESS ELEMENTARY SCHOOL

Preliminary Logistics – PHASE 2B: New School Opens / Demo



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Key Plan

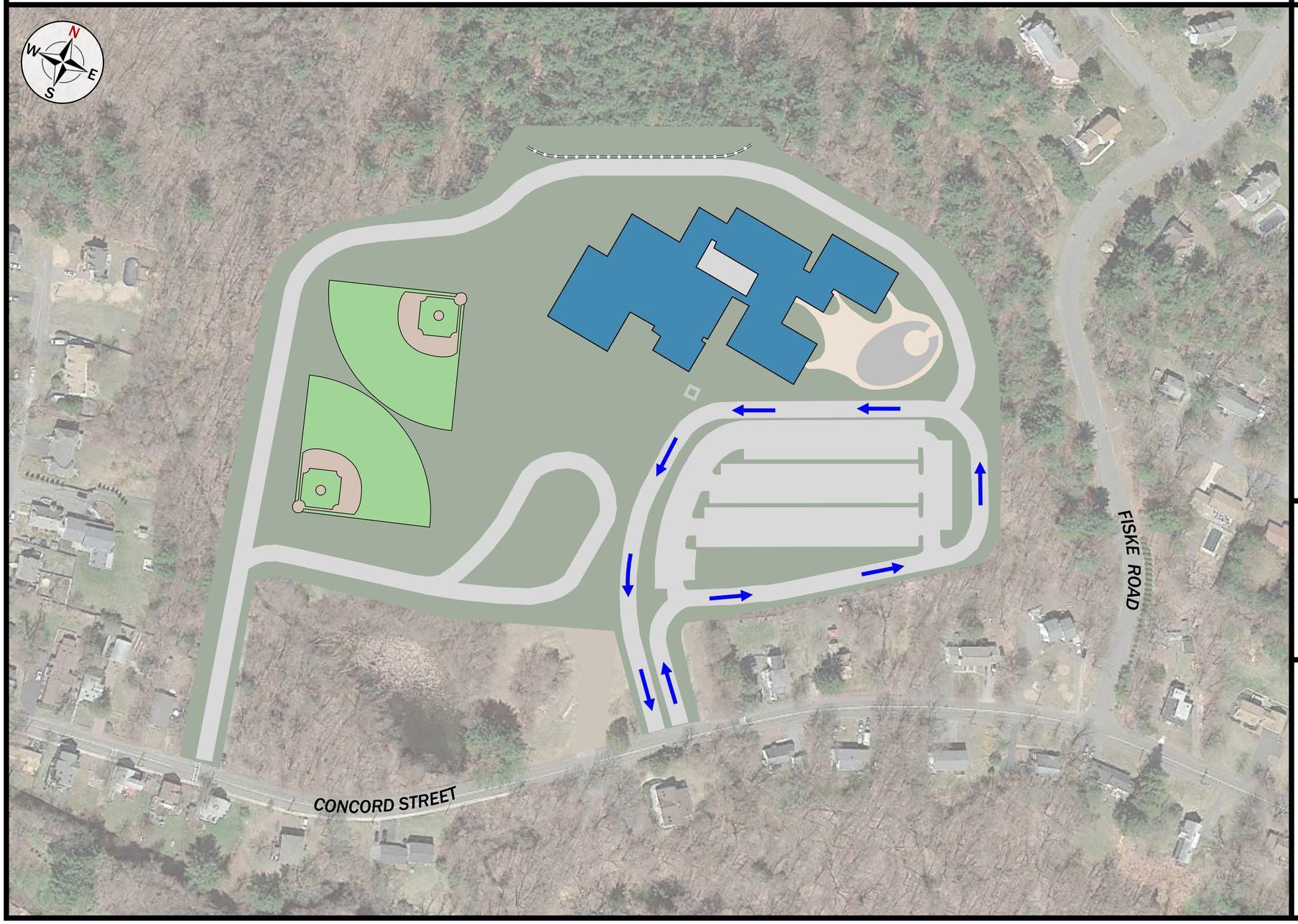
Sheet Title
Phase 2B: New School Opens / Demo

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/16"=1'-0"
Issue Date 09.01.2021	Plot Date 09.01.2021

Sheet No.
PH.3

ASHLAND – DAVID MINDESS ELEMENTARY SCHOOL

Preliminary Logistics – PROJECT COMPLETE



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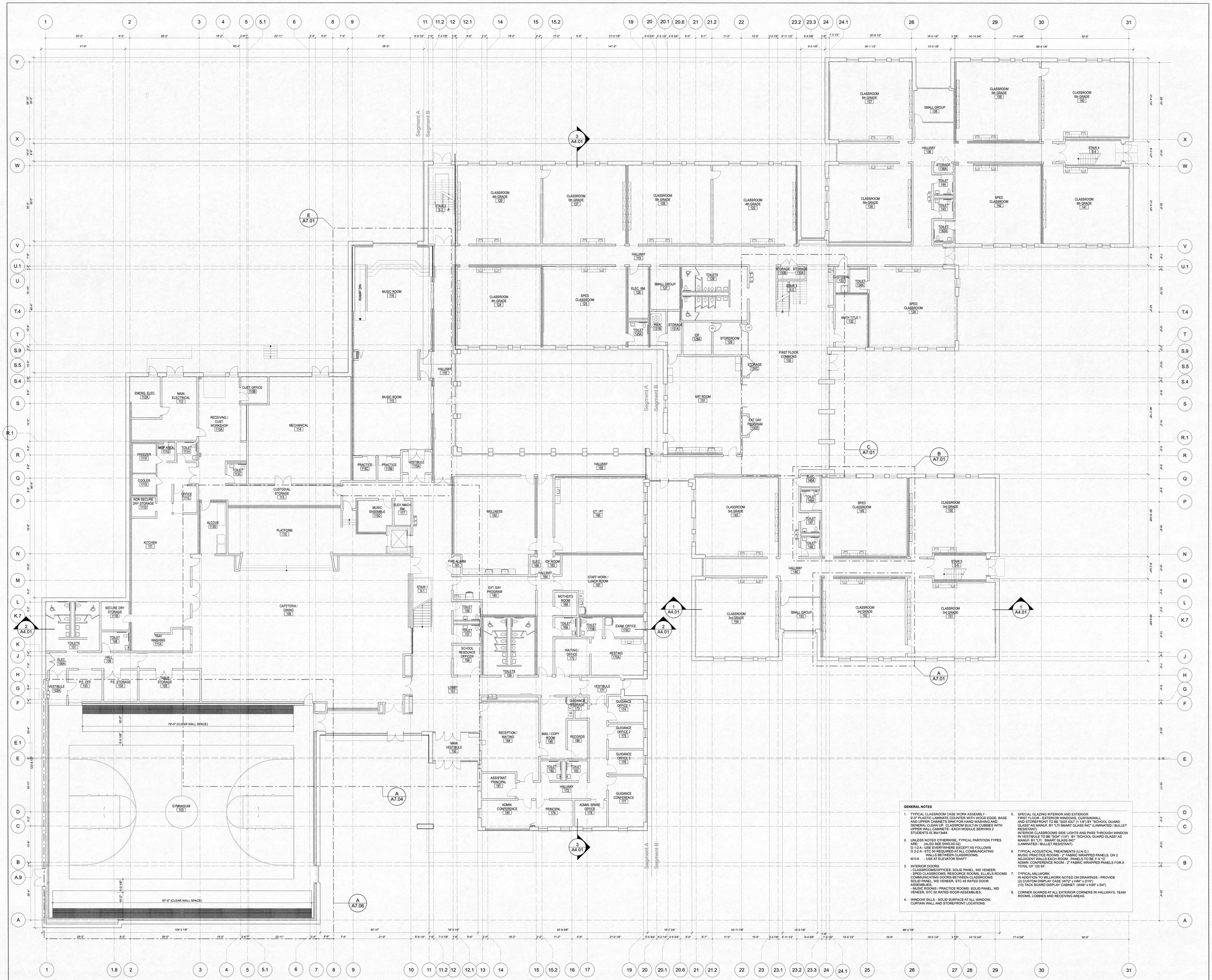
Sheet Title

Project Complete

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/16"=1'-0"
Issue Date 09.01.2021	Plot Date 09.01.2021

Sheet No.

PH.4



GENERAL NOTES

1. TYPICAL CLASSROOM CASE WORK ASSEMBLY -
   9'-0" PLASTIC LAMINATE COUNTER WITH WOOD EDGE, BASE AND UPPER CABINETS SINK FOR HAND WASHING AND GENERAL CLEAN UP. CLASSROM BUILT-IN CUBBIES WITH UPPER WALL CABINETS - EACH MODULE SERVING 2 STUDENTS IS 36x13x84.
2. UNLESS NOTED OTHERWISE, TYPICAL PARTITION TYPES ARE: (ALSO SEE DWG A0.02)
   G 1-2 A - USE EVERYWHERE EXCEPT AS FOLLOWS
   G 2-2 A - STC 50 REQUIRED AT ALL COMMUNICATING WALLS BETWEEN CLASSROOMS.
   M 0-8 - USE AT ELEVATOR SHAFT
3. INTERIOR DOORS
   - CLASSROOMS/OFFICES: SOLID PANEL, WD VENEER;
   - SPED CLASSROOMS, RESOURCE ROOMS, ELL/ELS ROOMS COMMUNICATING DOORS BETWEEN CLASSROOMS: SOLID PANEL, WD VENEER, STC 45 RATED DOOR ASSEMBLIES;
   - MUSIC ROOMS / PRACTICE ROOMS: SOLID PANEL, WD VENEER, STC 50 RATED DOOR ASSEMBLIES;
4. WINDOW SILLS - SOLID SURFACE AT ALL WINDOW, CURTAIN WALL AND STOREFRONT LOCATIONS
5. SPECIAL GLAZING INTERIOR AND EXTERIOR
   FIRST FLOOR - EXTERIOR WINDOWS, CURTAINWALL AND STOREFRONT TO BE "SGS 430" (1 1/8") BY "SCHOOL GUARD GLASS" AS MANUF. BY "LTI SMART GLASS INC" (LAMINATED / BULLET RESISTANT).
   INTERIOR CLASSROOMS SIDE LIGHTS AND PASS THROUGH WINDOW IN VESTIBULE TO BE "SG4" (1/4") BY "SCHOOL GUARD GLASS" AS MANUF. BY "LTI SMART GLASS INC" (LAMINATED / BULLET RESISTANT)
6. TYPICAL ACOUSTICAL TREATMENTS (U.N.O.)
   MUSIC PRACTICE ROOMS - 2" FABRIC WRAPPED PANELS, ON 2 ADJACENT WALLS EACH ROOM. PANELS TO BE 3' X 10'
   ADMIN. CONFERENCE ROOM - 2" FABRIC WRAPPED PANELS FOR A TOTAL OF 120 SF.
7. TYPICAL MILLWORK:
   IN ADDITION TO MILLWORK NOTED ON DRAWINGS - PROVIDE (2) CUSTOM DISPLAY CASE (W72" x H84" x D15")
   (10) TACK BOARD DISPLAY CABINET (W48" x H36" x D4")
8. CORNER GUARDS AT ALL EXTERIOR CORNERS IN HALLWAYS, TEAM ROOMS, LOBBIES AND RECEIVING AREAS.

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Structural Engineer
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No.	Date	Note
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No.	Date	Note
ISSUE		

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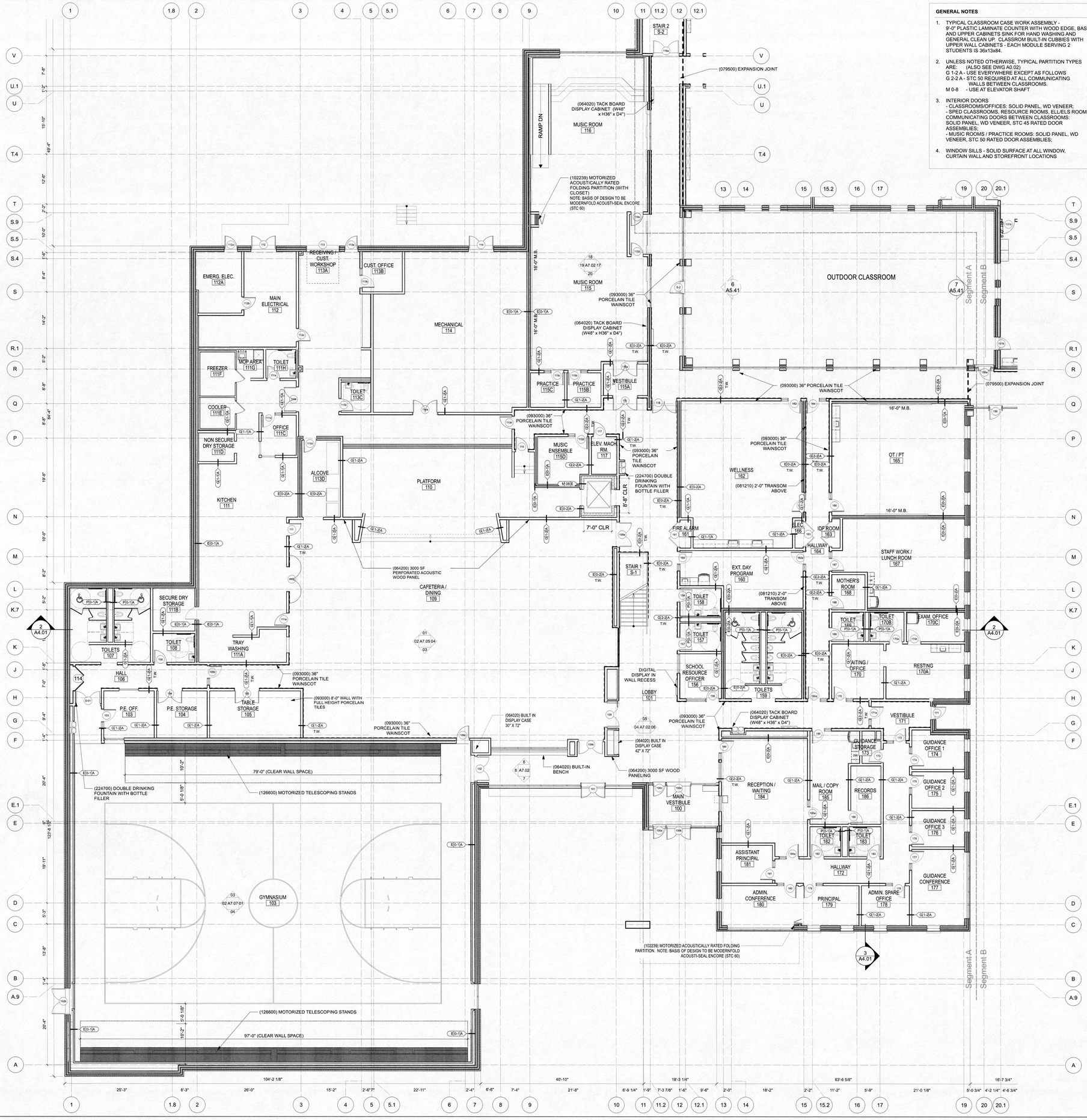
Key Plan

Sheet Title

Overall First Floor Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 3/32"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.10



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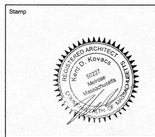

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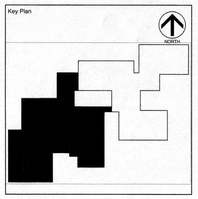

Sheet Title

Segment A

First Floor Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/8"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.10 A

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REGISTERED ARCHITECT — BRETT J. MORAN — COMMONWEALTH OF MASSACHUSETTS

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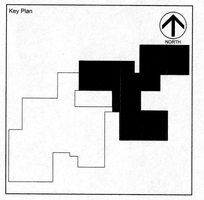


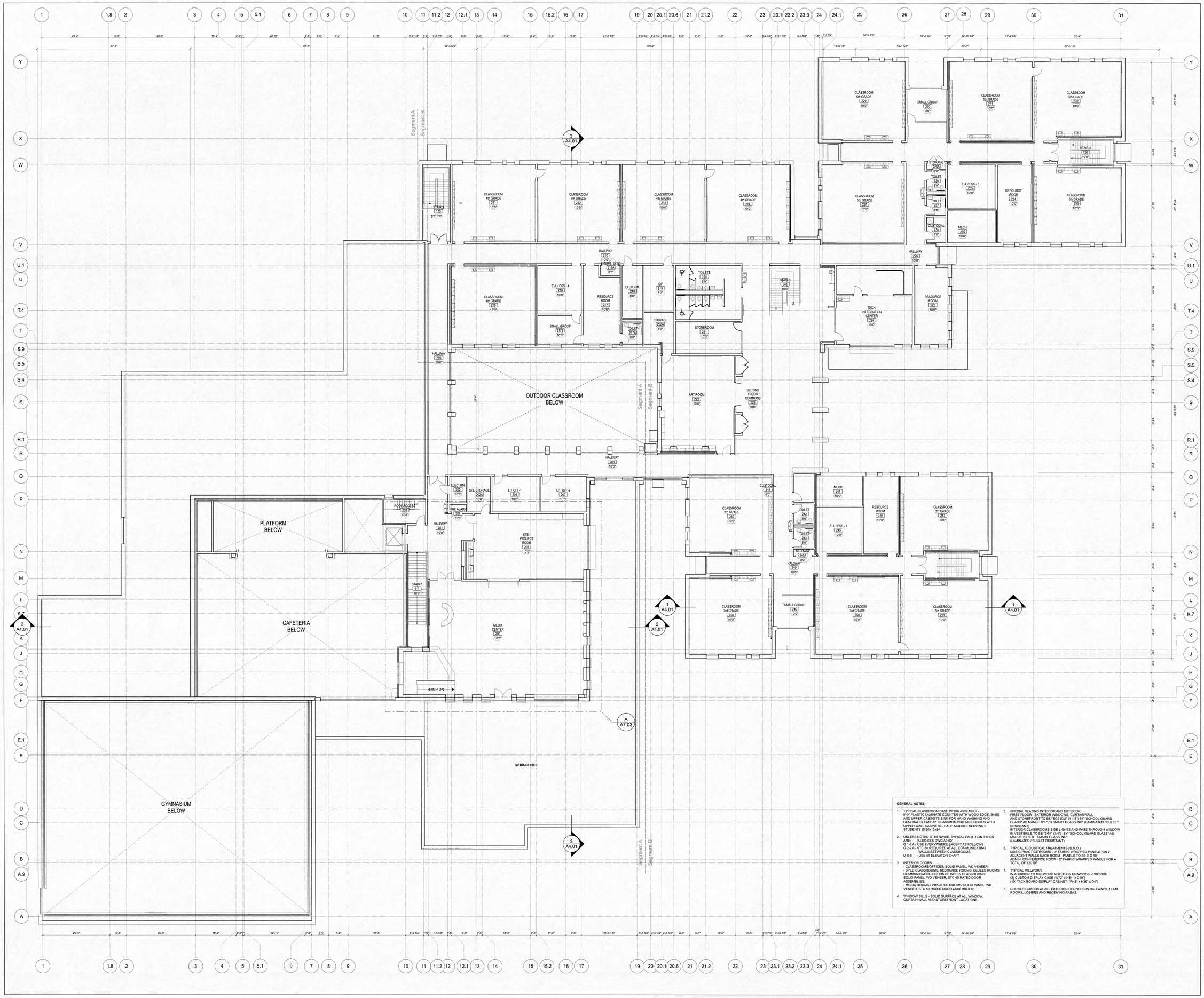
Sheet Title

Segment B

First Floor Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/8"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.10 B



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REGISTERED ARCHITECT KEVIN L. KOVACS 52027 Massachusetts COMMONWEALTH OF MASSACHUSETTS

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Key Plan

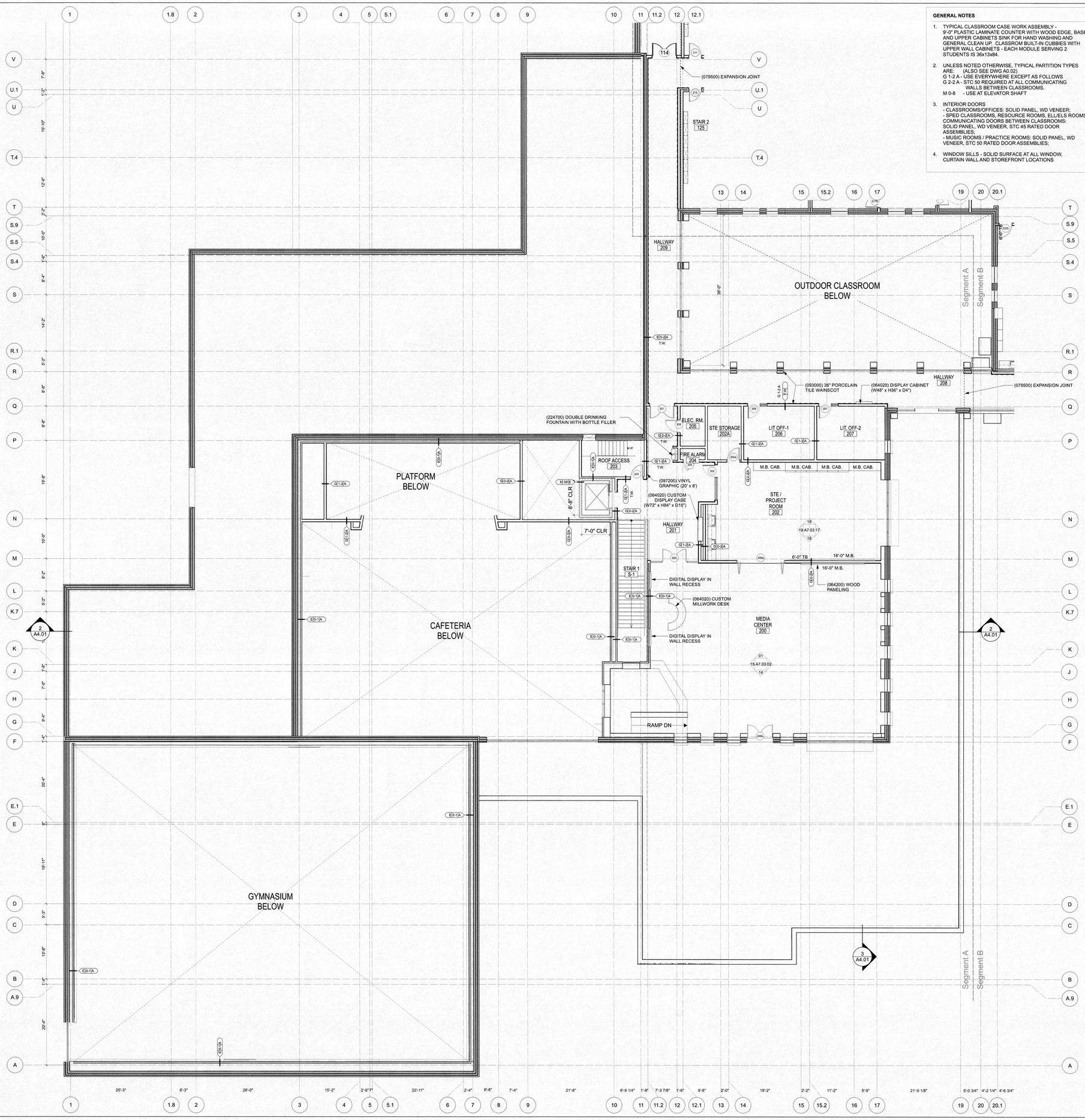
NORTH

Sheet Title

Overall Second Floor Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 3/32"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.20



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REGISTERED ARCHITECT — RONALD D. KOVACS — 10022 — COMMONWEALTH OF MASSACHUSETTS

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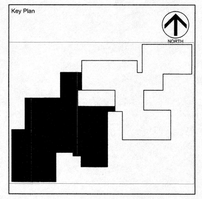


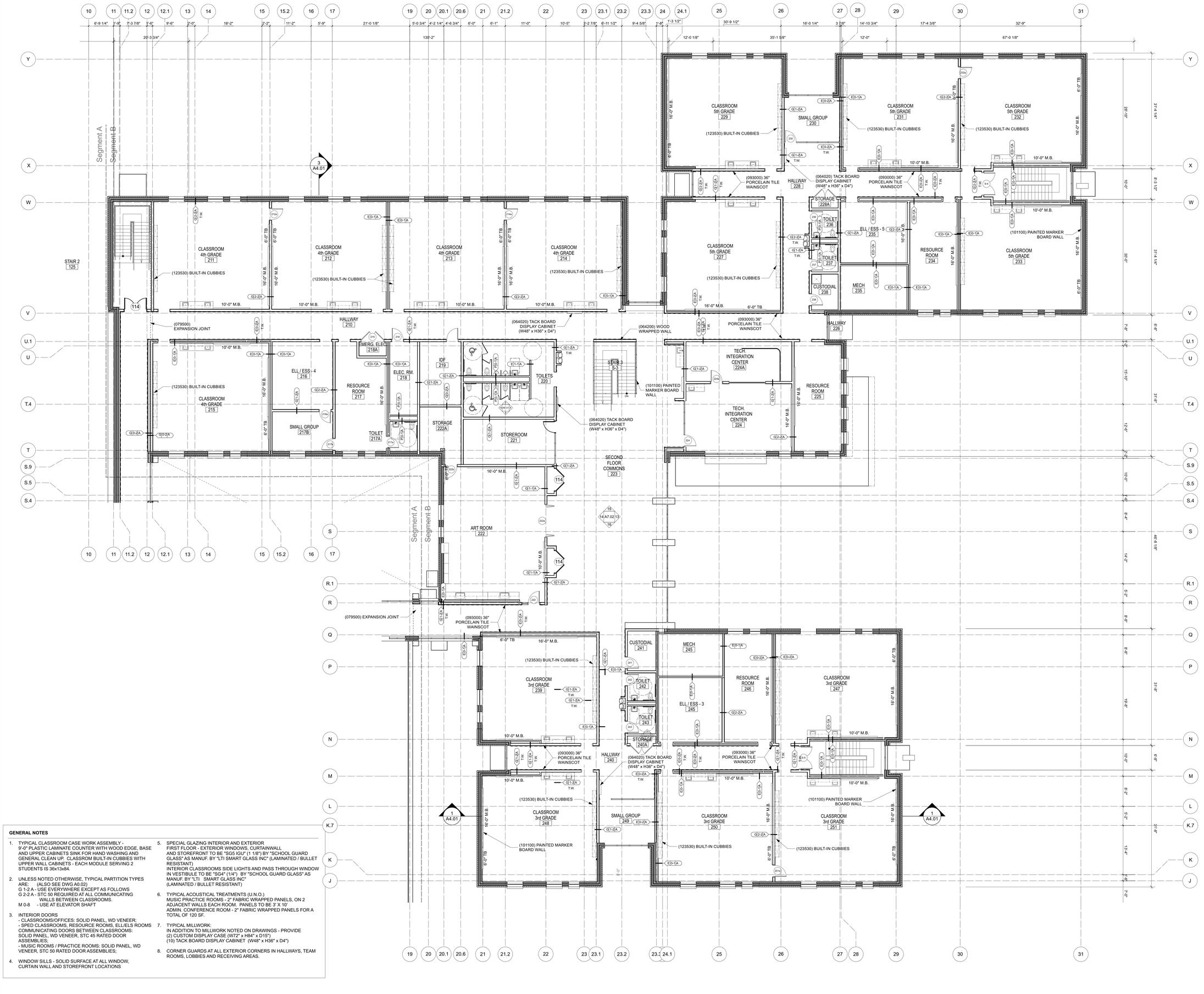
Sheet Title

Segment A

Second Floor Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/8"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.20 A



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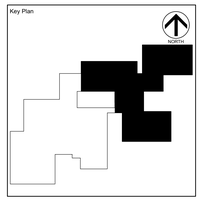

Sheet Title

Segment B

Second Floor Plan

Drawn By	Project ID 1914.00
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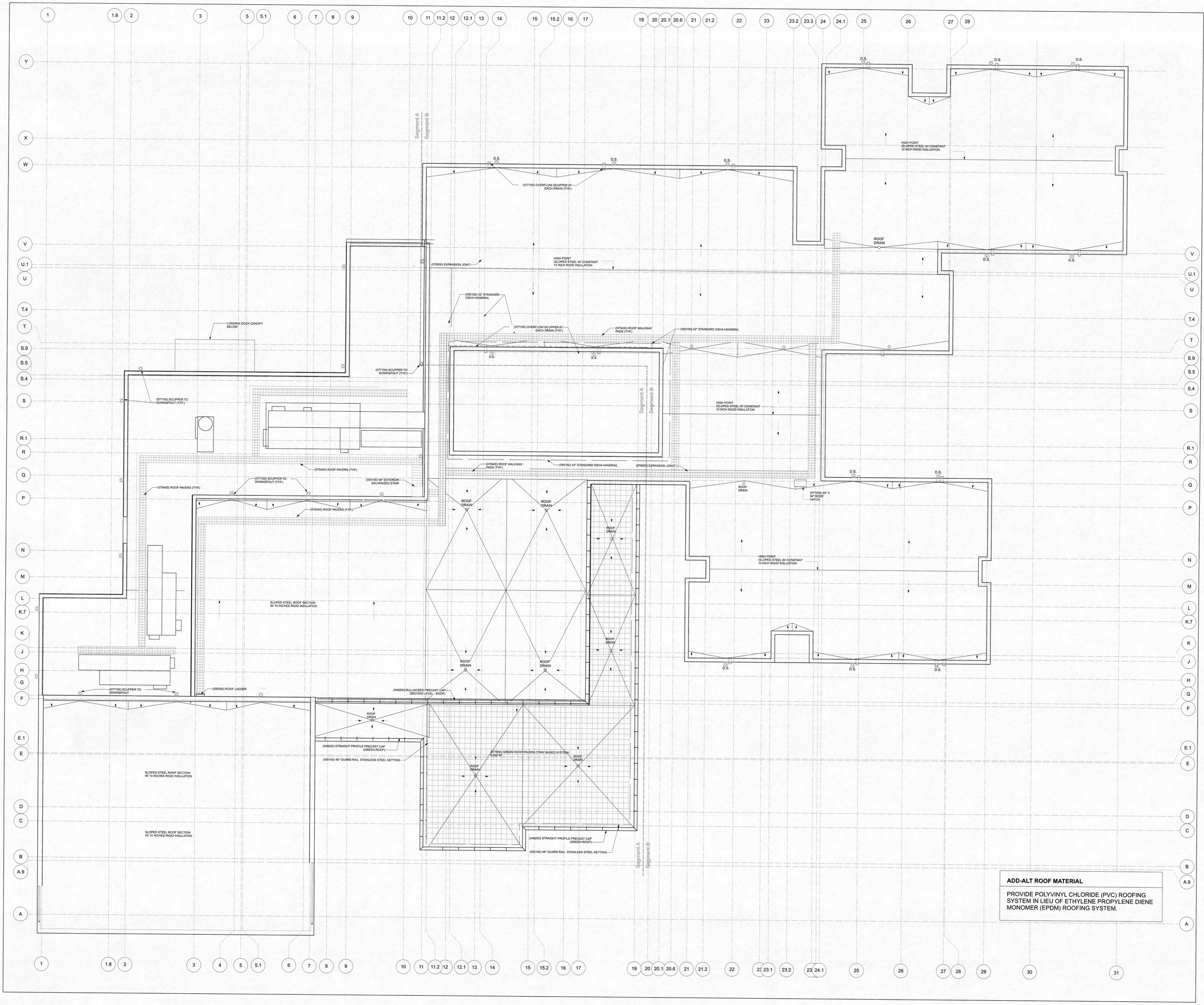
Sheet No.

A1.20 B



ADD-ALT ROOF MATERIAL

PROVIDE POLYVINYL CHLORIDE (PVC) ROOFING SYSTEM IN LIEU OF ETHYLENE PROPYLENE DIENE MONOMER (EPDM) ROOFING SYSTEM.

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Sheet Title

Overall Roof Plan

Drawn By	Project ID 1914.00
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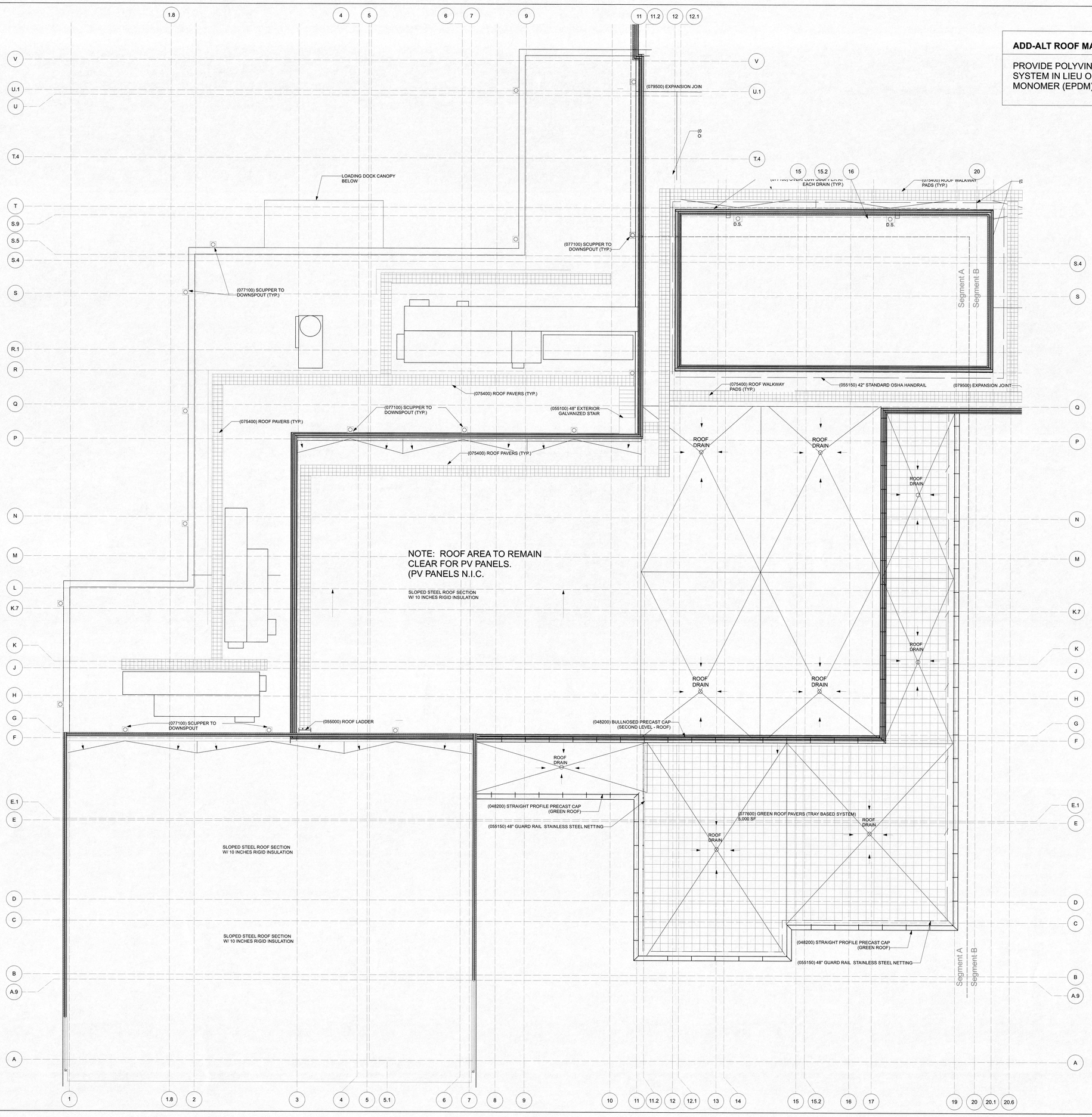
A1.30



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FF&E and Casework
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REGISTERED ARCHITECT — Paul D. Kovacs — 10227 — Hingham, Massachusetts — COMMONWEALTH OF MASSACHUSETTS

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Key Plan

NORTH

Sheet Title

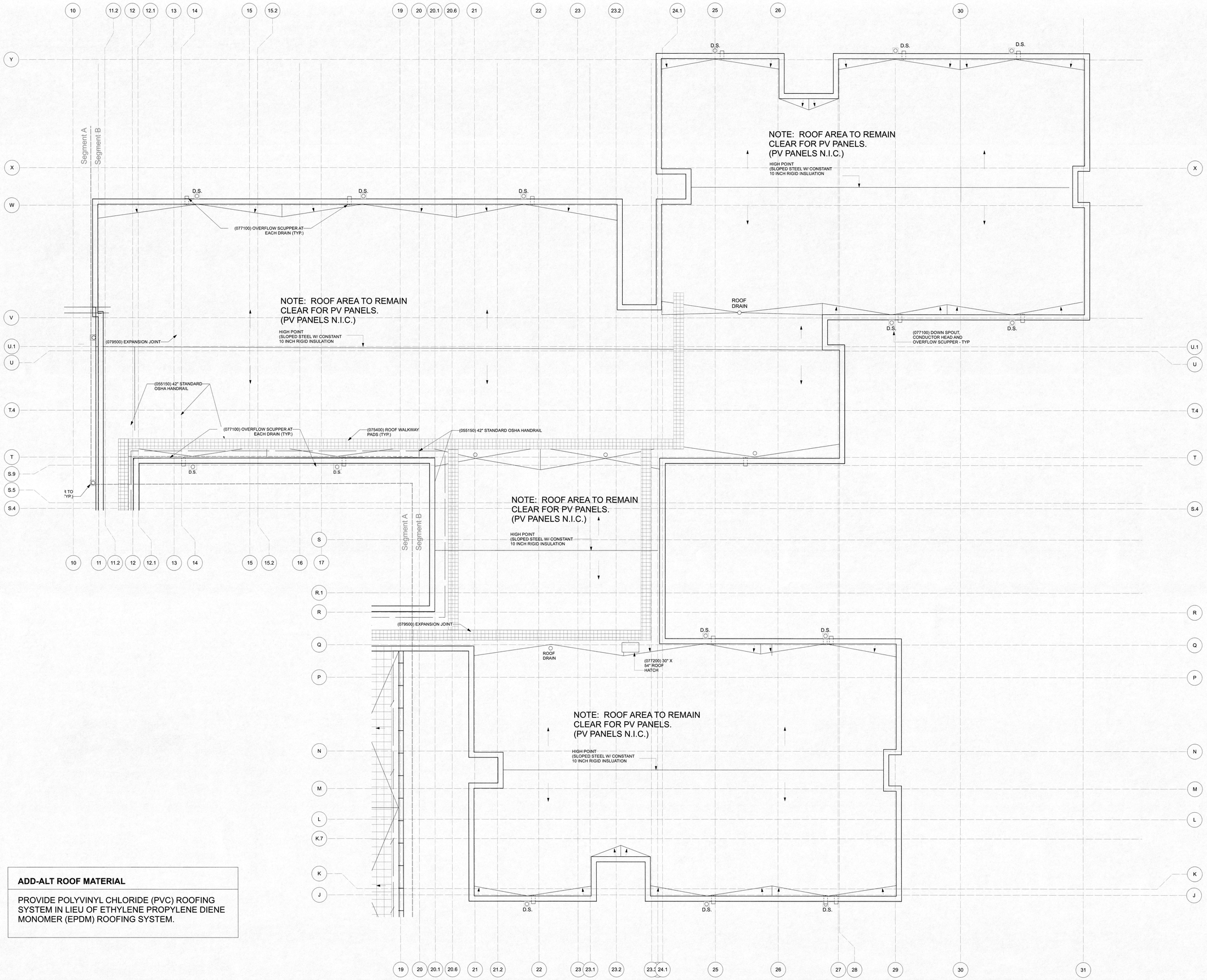
Segment A

Roof Plan

Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/8"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021

Sheet No.

A1.30 A



ADD-ALT ROOF MATERIAL

PROVIDE POLYVINYL CHLORIDE (PVC) ROOFING SYSTEM IN LIEU OF ETHYLENE PROPYLENE DIENE MONOMER (EPDM) ROOFING SYSTEM.

90 Concord Street, Ashland, MA

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ISSUE		

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REGISTERED ARCHITECT Kevin D. Kovacs 50227 Melrose Massachusetts COMMONWEALTH OF MASSACHUSETTS

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Key Plan

NORTH

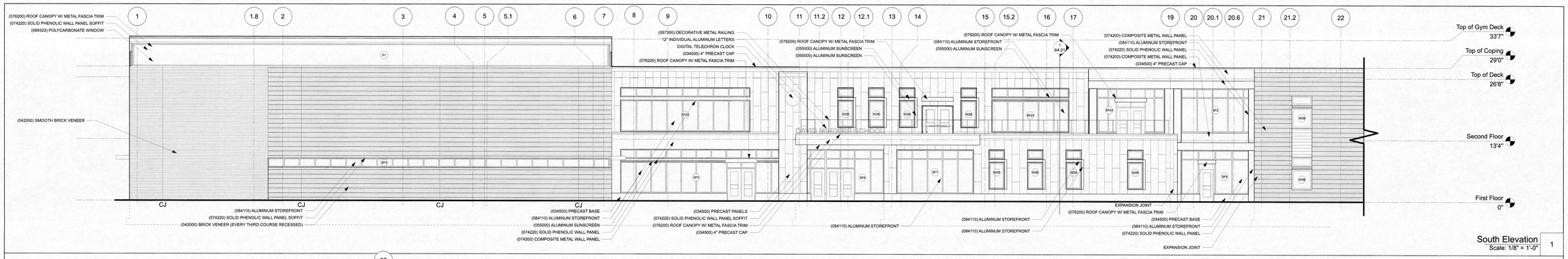
Sheet Title

Segment B

Roof Plan

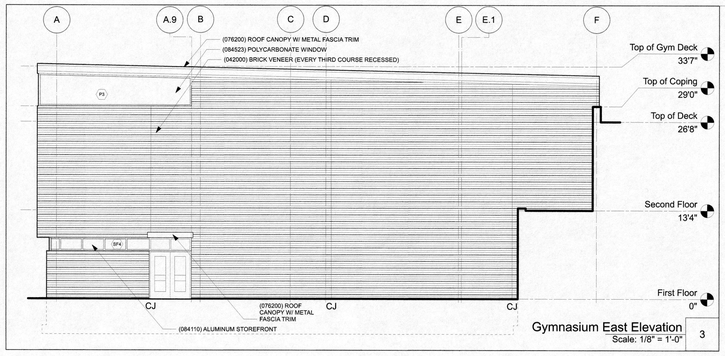
Drawn By	Project ID 1914.00
Reviewed By FAI	Scale 1/8"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

A1.30 B



South Elevation
Scale: 1/8" = 1'-0" 1

3rd Grade South Elevation
Scale: 1/8" = 1'-0" 2



Gymnasium East Elevation
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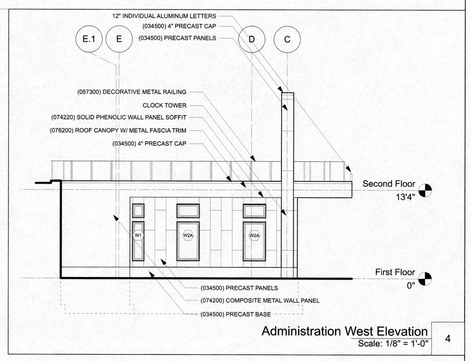

Administration West Elevation
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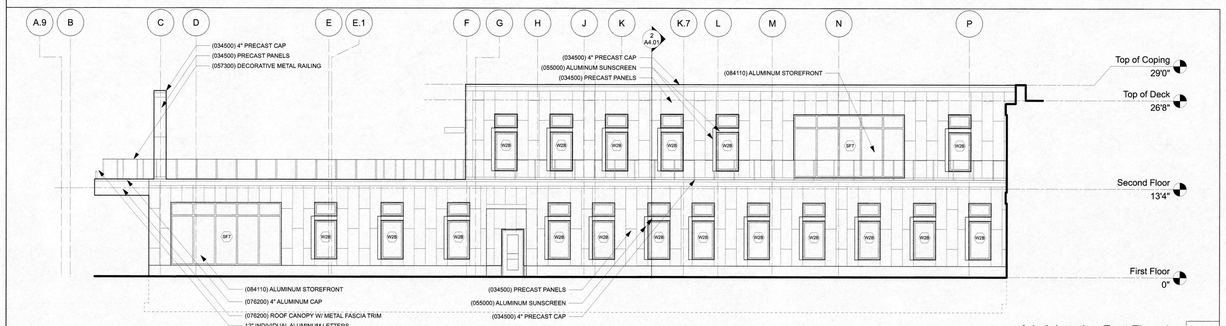
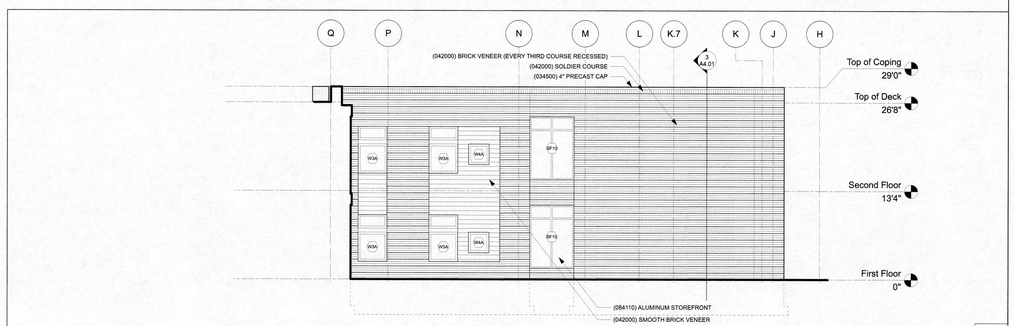
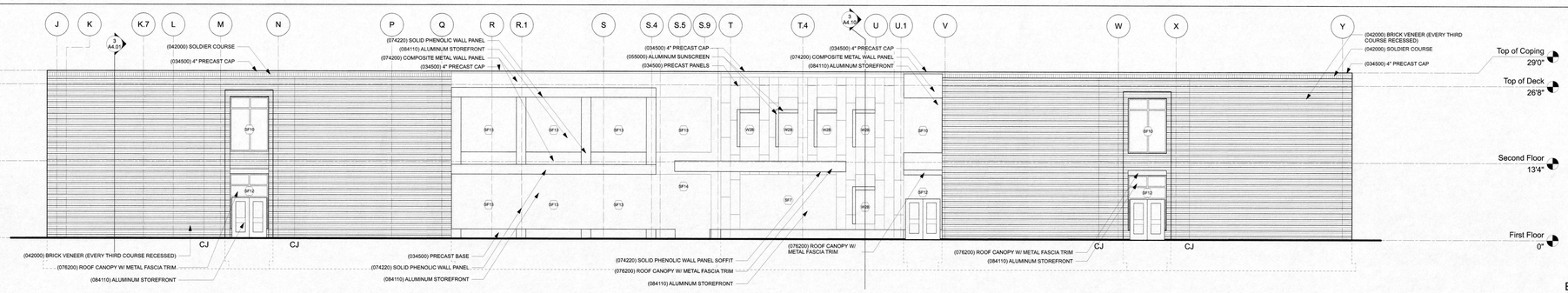


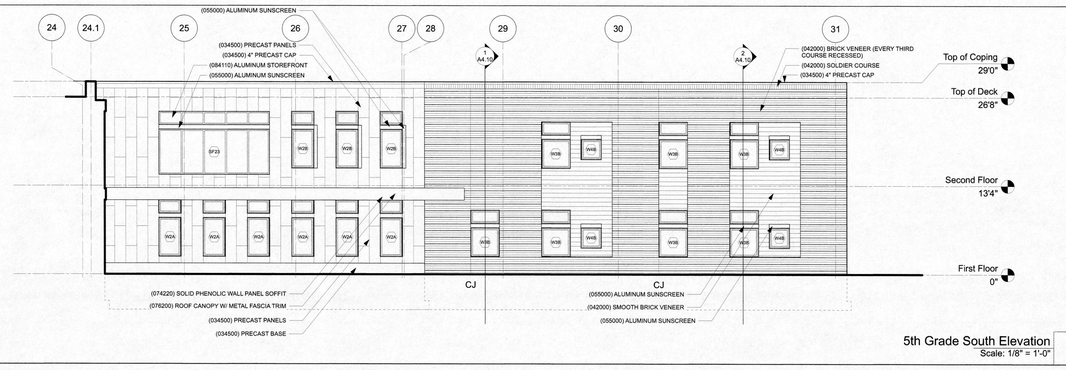
Administration East Elevation
Scale: 1/8" = 1'-0" 5



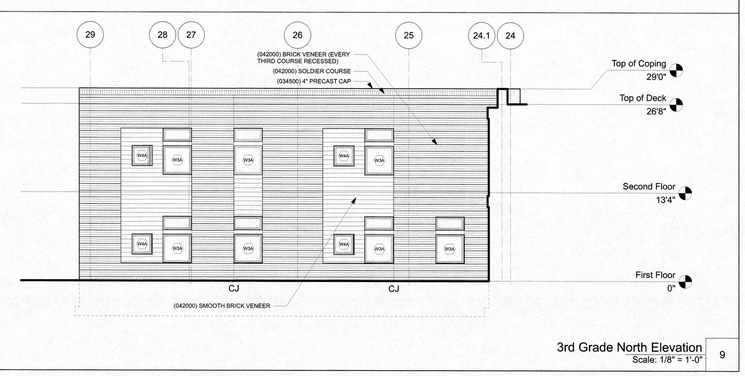
3rd Grade West Elevation
Scale: 1/8" = 1'-0" 6



East Elevation
Scale: 1/8" = 1'-0" 7



5th Grade South Elevation
Scale: 1/8" = 1'-0" 8



3rd Grade North Elevation
Scale: 1/8" = 1'-0" 9

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No.	Date	Note
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REGISTERED ARCHITECT
Kathleen D. Krikorian
52237
Malden
Massachusetts
COMMONWEALTH OF MASSACHUSETTS

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Key Plan

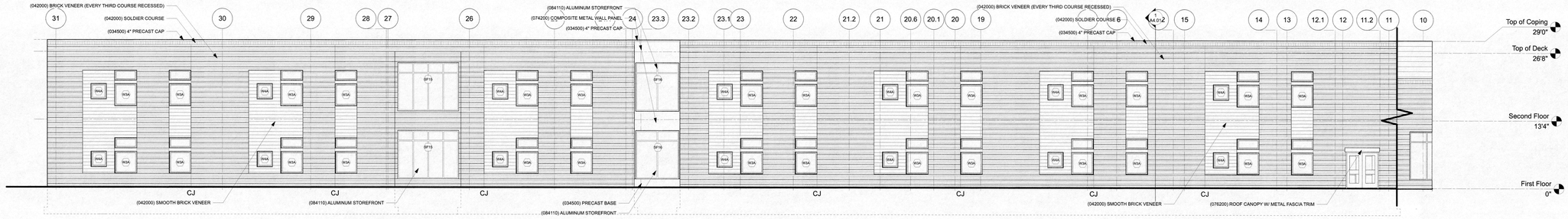
NORTH

Sheet Title

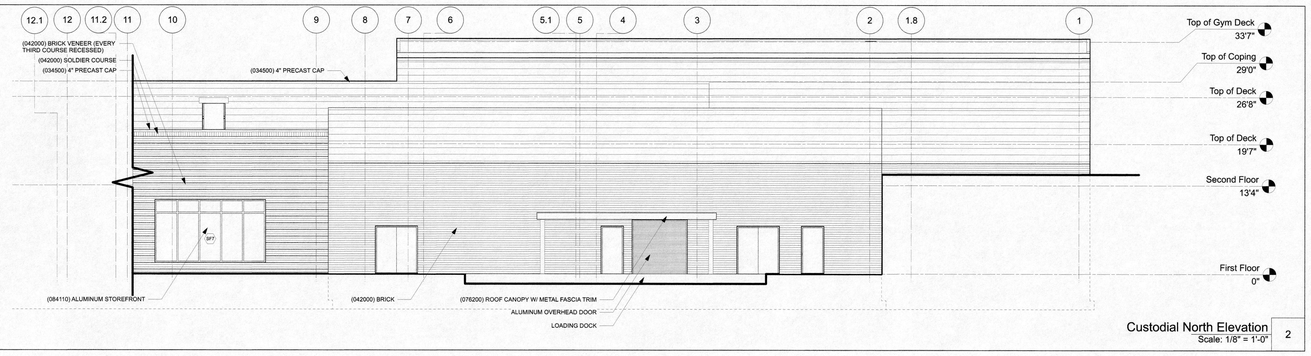
Exterior Elevations

Drawn By: ZTM	Project ID: 1914.00
Reviewed By: FAI	Scale: 1/16"=1'-0"
Issue Date: 05.26.2021	Plot Date: 05.26.2021
Sheet No.	

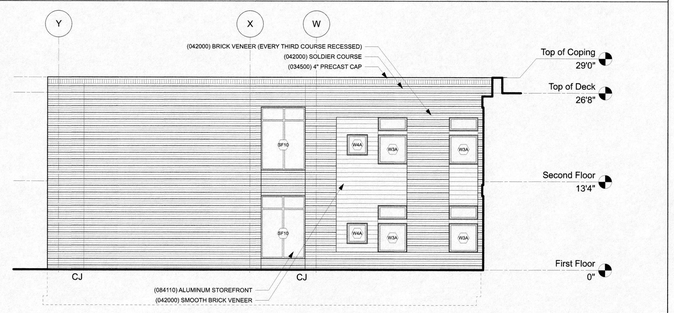
A3.01



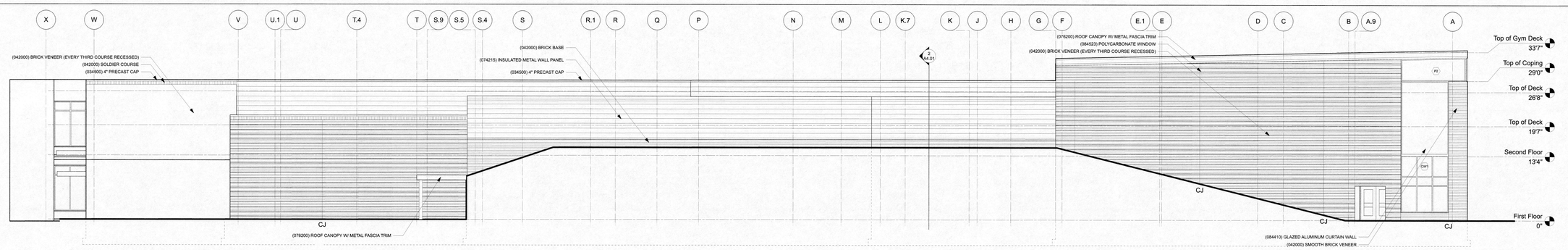
4th & 5th Grade North Elevation
Scale: 1/8" = 1'-0" 1



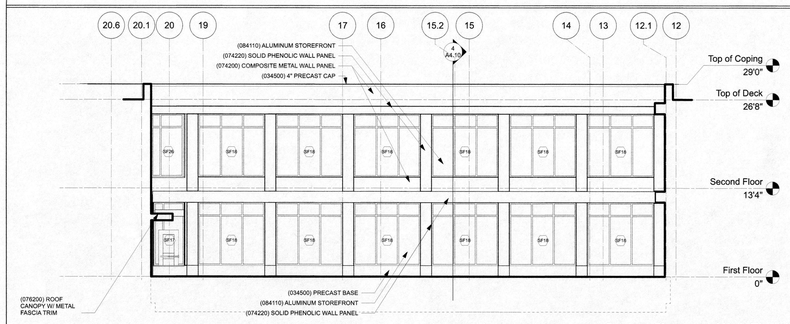
Custodial North Elevation
Scale: 1/8" = 1'-0" 2



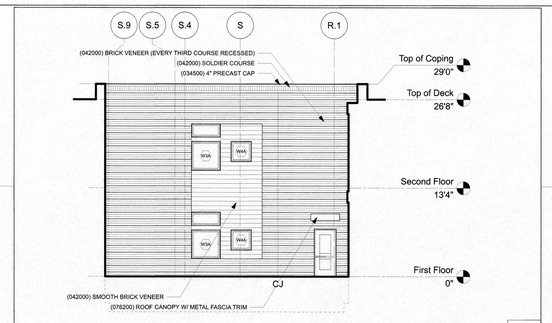
5th Grade West Elevation
Scale: 1/8" = 1'-0" 3



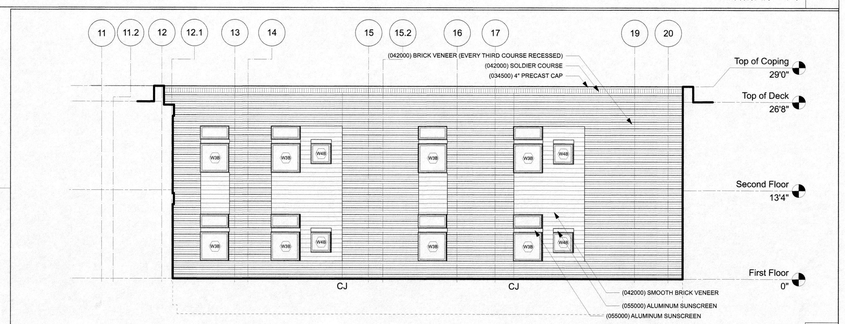
West Elevation
Scale: 1/8" = 1'-0" 4



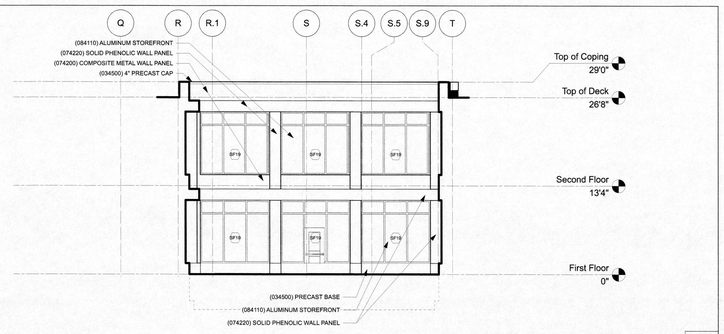
Outdoor Classroom North Elevation
Scale: 1/8" = 1'-0" 5



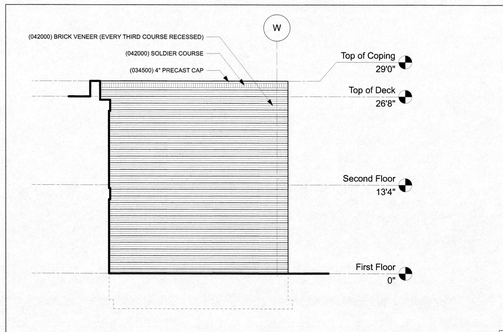
Outdoor Classroom West Elevation
Scale: 1/8" = 1'-0" 6



Outdoor Classroom South Elevation
Scale: 1/8" = 1'-0" 7



Outdoor Classroom East Elevation
Scale: 1/8" = 1'-0" 8



4th Grade East Elevation
Scale: 1/8" = 1'-0" 9

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MASSACHUSETTS REGISTERED ARCHITECT
Kevin D. Kovacs
No. 32227
Registered Architect
Professional

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Key Plan

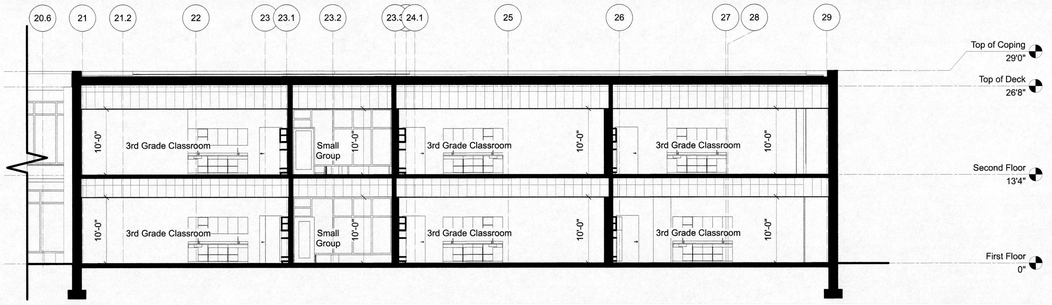
NORTH

Sheet Title

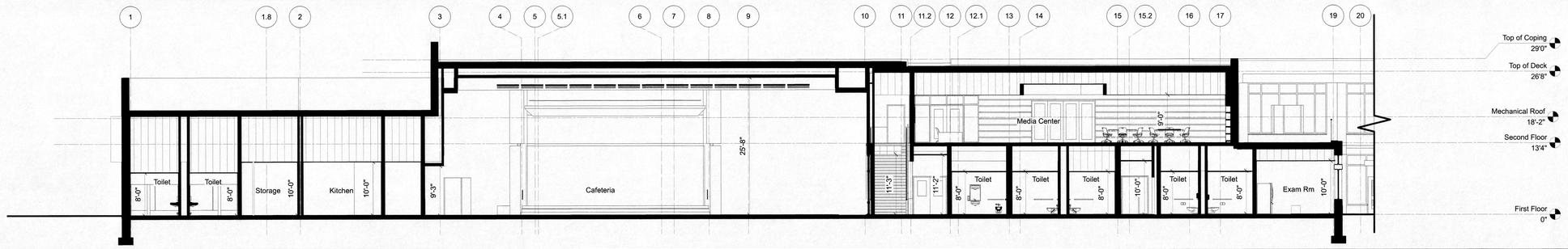
Exterior Elevations

Drawn By ZTM	Project ID 1914.00
Reviewed By FAI	Scale 1/16"=1'-0"
Issue Date 05.26.2021	Plot Date 05.26.2021
Sheet No.	

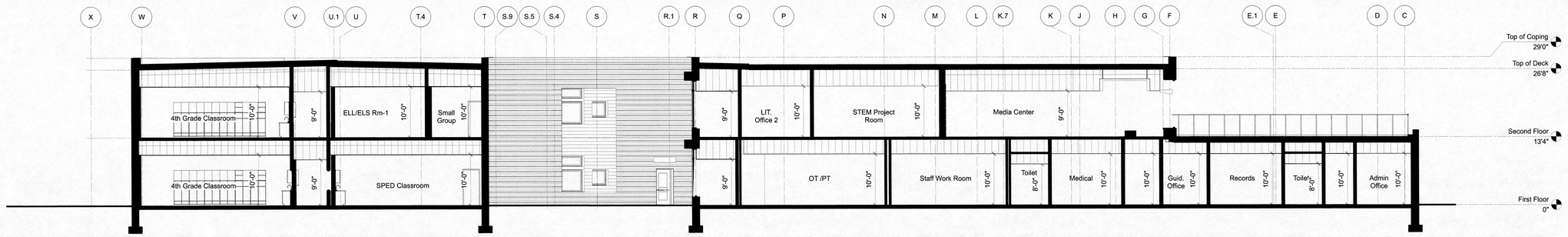
A3.02



Academic, Administration, and Cafeteria Section A | 1
Scale: 1/8" = 1'-0"



Academic, Administration, and cafeteria Section B | 2
Scale: 1/8" = 1'-0"



Outdoor Classroom Section | 3
Scale: 1/8" = 1'-0"

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Sheet Title

Building Sections

Drawn By: ZTM	Project ID: 1914.00
Reviewed By: FAI	Scale: 1/16"=1'-0"
Issue Date: 05.26.2021	Plot Date: 05.26.2021

Sheet No.

A4.01

1 SITE LIGHTING
1" = 40'-0"

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No.	Date	Note
ISSUE		

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Pricing Set

60% Construction Documents

Sheet Title
SITE LIGHTING

Drawn By: Author	Project ID: 29849.00
Reviewed By: Checker	Scale: 1" = 40'-0"
Issue Date: 08.02.2021	Plot Date: 08.02.2021

Sheet No.

SL1

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No.	Date	Note
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Sheet Title

SITE LIGHTING CALCULATIONS

Drawn By: Author	Project ID: 29849.00
Reviewed By: Checker	Scale: 1" = 20'-0"
Issue Date: 08.02.2021	Plot Date: 08.02.2021

Sheet No.

SL2

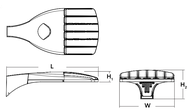
D-Series Size 0
LED Area Luminaire

Catalog Number: Fixture types: SL1, SL2, SL2A, SL2B, SL3
Notes:
Type:

Introduction
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications
EPA: 0.95 ft² (.09 m²)
Length: 26" (66.0 cm)
Width: 13" (33.0 cm)
Height: 3" (7.62 cm)
Height: 2" (5.1 cm)
Weight (max): 16 lbs (7.3 kg)



Ordering Information
EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7[1] P4[1] **Rotated optics** P10[1] P12[1] P11[1] P13[1,2]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium T4FT Forward Throw medium T5WS Type V very short[1] T5S Type V short[1] T5M Type V medium[1] T5W Type V wide[1] BLC Backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4,5] XVOLT (277V-480V)[5,6] 120[6] 208[6] 240[6] 277[6] 347[6] 480[6]	**Shipped included** SPA Square pole mounting RPA Round pole mounting[6] WBA Wall bracket[6] SPUMBA Square pole universal mounting adaptor[7] RPUMBA Round pole universal mounting adaptor[7] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[7]

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[8,9] PBBW Network, high/low motion/ambient sensor[10] PER NEMA twist-lock receptacle only (control ordered separately)[11] PERS Five-pin receptacle only (control ordered separately)[11] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separately)[11] DMG 0-10V dimming extend out back of housing for external control (control ordered separately)[12] PIR High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 5fc[13,14] PIRH High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 5fc[13,14] PIR1FC3V High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc[13,14] PIRH1FC3V High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc[13,14] FAO Field adjustable output[15]	**Shipped installed** HS House-side shield[16] SF Single fuse (120, 277, 347V)[17] DF Double fuse (208, 240, 480V)[17] L90 Left rotated optics[1] R90 Right rotated optics[1] DDL Diffused drop lens[16] HA 50°C ambient operations[1] **Shipped separately** BS Bird spikes[18] EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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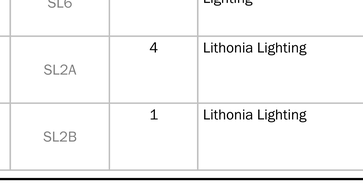
Radean Post Top
LED Area Luminaire

Catalog Number: FIXTURE TYPE SL5
Notes:
Type:

Introduction
The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

Specifications
EPA: 1.02 ft² (0.105 m²)
Length: 24" (61 cm)
Width: 24" (61 cm)
H1 Luminaire Height: 4" (10.16cm)
H2 Luminaire Height: 266" (66.04cm)
Weight: 388lbs (17.24Kg)



Ordering Information
EXAMPLE: RADPT LED P3 30K SYM MVOLT PT4 PIR DNAXD

RADPT LED

Series	Performance package	Color temperature	Distribution	Voltage	Mounting (required)
RADPT LED	P1 5,000 Lumens P2 7,000 Lumens P3 10,000 Lumens P4 15,000 Lumens P5 15,000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	SYM Symmetric type V ASY Asymmetric type IV PATH Pathway Type II	MVOLT[1] 277[1] 120[1] 347[1] 208[1] 480[1] 240[1]	PT4[1] Slips inside a 4" OD round metal pole RADPT20 Slips over a 2 3/8" diameter tenon RADPT25 Slips over a 2 7/8" diameter tenon

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR 2.0 enabled[1] PIR Bi-level motion/ambient sensor (120Hz to 20Hz)[2,3,4] PE Button photocell[1] FAO Field adjustable output[5,6] **Shipped included** SF Single fuse[1] DF Double fuse[1] R90 Rotated optics[1] **Shipped installed** HS Houseside shield[7]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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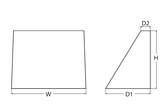
WDGE2 LED
Architectural Wall Sconce

Catalog Number: FIXTURE TYPE SL4
Notes:
Type:

Introduction
The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

Specifications
Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight (without options): 13.5 lbs



WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K) P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	–	–	1,200	2,000	–	–	–	–
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	–
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	–	–
WDGE4 LED	–	–	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information
EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P1[1] P5SW P2[1] P7SW P3[1] P9SW P4[1] P6SW P5[1]	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[2] 5000K	80CRI VF 90CRI VW	Visual comfort forward throw Visual comfort wide	MVOLT 347[3] 480[3]	**Shipped included** SRM Surface mounting bracket ICW Indoor Canopy/Ceiling Washer bracket (qty 1 clamp locations only)[4] **Shipped separately** AWS 120v/277v Architectural wall sparer PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options	Finish
E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 0°C min) E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min) PE[1] Photocell, Button Type DS[1] Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details) DMG[1] 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSND Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)
PIR Bi-level (100/35%) motion sensor for 8–15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH Bi-level (100/35%) motion sensor for 15–30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIR1FC3V Bi-level (100/35%) motion sensor for 8–15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V Bi-level (100/35%) motion sensor for 15–30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)
NLTAIR2 PIR nLight AIR Wireless enabled bi-level motion/ambient sensor for 8–15' mounting heights.
NLTAIR2 PIRH nLight AIR Wireless enabled bi-level motion/ambient sensor for 15–30' mounting heights.

See page 4 for out of the box functionality

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gotham EVO
Multiple Layers of Light

Luminaire Type:
Catalog Number:

FIXTURE TYPE SL6

General Illumination Round Downlight 4"

Feature Set
- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product

Distribution
medium 0.5 LBM
medium wide 1.0 LBM
wide 1.2 LBM

Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500
Delivered Lumens	271	573	806	1001	1527	1994	2580	3110	3612
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1

Coordinated Apertures | Multiple Layers of Light

WE-EF USA - FLAG LIGHTING
we-ef

FIXTURE TYPE SL7

INGROUND LUMINAIRES
IP67. Inground LED uplight. Suitable for flush installation in concrete or earth. Offset gimbal mounted lamp module, with lockable aiming, 30° vertical tilt, and 360° horizontal rotation. Special effects can be realized with linear lens, flood lens, or color filters. Concrete pour blockout is supplied as standard and can be shipped ahead of the luminaire.

ETC130-GB FLAG POLE

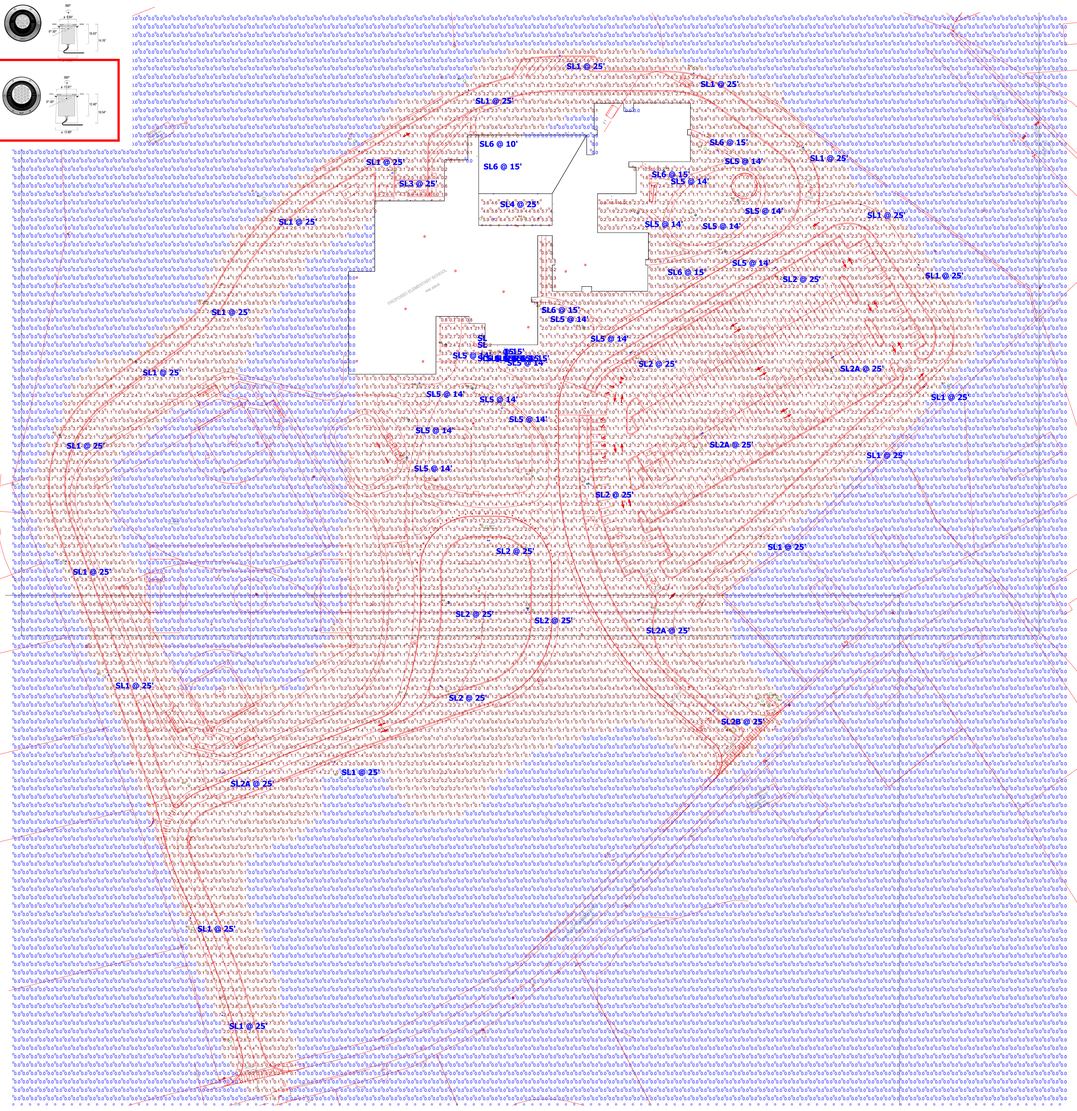
ID	LIGHT SOURCE	VOLTAGE	KELVIN	OPTIC	LUMENS
611-3014	ETC130-GB (VN) 12 LED/ 18W	120-277V	3000	15°	1816
611-3015	ETC130-GB (VN) 12 LED/ 18W	120-277V	4000	15°	1816

Recommended for flag poles up to 25 ft in height.

ETC140-GB FLAG POLE

ID	LIGHT SOURCE	VOLTAGE	KELVIN	OPTIC	LUMENS
611-4014	ETC140-GB (VN) 24 LED/ 24W	120-277V	3000	15°	2777
611-4015	ETC140-GB (VN) 24 LED/ 24W	120-277V	4000	15°	2777

Recommended for flag poles of up to 60 ft in height.



STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN	DESCRIPTION
General		0.5 fc	32.8 fc	0.0 fc	N/A	N/A	100

FIXTURE MOUNTING HEIGHT AS INDICATED ON PLAN (EXAMPLE SL1 @25').

Plan View
Scale - 1/16" = 4ft

SCHEDULE

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Light Loss Factor	Wattage
	SL1	19	Lithonia Lighting	DSX0 LED P7 30K BLC MVOLT	DSX0 LED P7 30K BLC MVOLT	0.9	166
	SL2	7	Lithonia Lighting	DSX0 LED P7 30K T5W MVOLT	DSX0 LED P7 30K T5W MVOLT	0.9	332
	SL3	1	Lithonia Lighting	DSX0 LED P4 30K T2S MVOLT HS	DSX0 LED P4 30K T2S MVOLT with houseside shield	0.9	92
	SL4	8	Lithonia Lighting	WDGE2 LED P3 30K 80CRI VF	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC	0.9	22.55
	SL5	17	Lithonia Lighting	RADPT P3 30K SYM	RADEAN Post-Top with P3 3000K Symmetric distribution	0.9	53.6184
	SL6	20	Gotham Architectural Lighting	EVO4 35/30 AR MWD LSS	EVO 4IN ROUND DOWNLIGHT, 80 CRI, 3500K, 3000LM, MED WIDE DIST, CLEAR SEMI-SPEC	0.9	31.2
	SL2A	4	Lithonia Lighting	DSX0 LED P7 30K T5M MVOLT	DSX0 LED P7 30K T5M MVOLT	0.9	332
	SL2B	1	Lithonia Lighting	DSX0 LED P7 30K T5S MVOLT	DSX0 LED P7 30K T5S MVOLT	0.9	332

DISCLAIMER:

-THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES ONLY AND ARE NOT INTENDED FOR CONSTRUCTION. VALUES REPRESENTED ARE AN APPROXIMATION GENERATED FROM MANUFACTURERS PHOTOMETRIC IN-HOUSE OR INDEPENDANT LAB TEST WITH DATA SUPPLIED BY LAMP MANUFACTURERS.

VISUAL

Ashland Mindess ES
REV 9
8-3-21

Designer: Robert J. Lindstrom
Date: 04/30/2021
Scale: Not to Scale
Drawing No.:
Summary: