

W. EDWARD BALMER ELEMENTARY SCHOOL

21 CRESCENT STREET

NOTICE OF INTENT SUBMISSION

NORTHBRIDGE, MA

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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 OFF-SITE 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 THE 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 OFF SITE.
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 BEAMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO COMMONWEALTH/OWNER.

GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "COMPILED EXISTING CONDITIONS", PREPARED BY NITSOH ENGINEERING, DATED SEPTEMBER 29, 2017.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO.250271006E DATED 7/11/2011. THE SITE IS IN ZONE X AREA OF MINIMAL FLOOD RISK.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE OR DEMOLISH ANY STRUCTURE OR MAJOR EQUIPMENT 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 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 NITSOH 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 MAKE GOOD ANY DAMAGE SO CAUSED 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 NAVD83 GEOID 12A VERTICAL BASED ON GPS RTK OBSERVATIONS.
14. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED XXXX XX, XXXX AND ISSUED BY THE NORTHBRIDGE CONSERVATION COMMISSION (DEP XXXX-XXXX).
15. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

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 INCH 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 SHALL FROM EROSION 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 SWEEPED AT THE END OF EACH WORKING DAY.
11. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFF SITE.
12. TEMPORARY DIVERSION DITCHES 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 MATING 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 NORTHBRIDGE CONSERVATION AGENT. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

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 ON SITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
12. ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL 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
---	CENTURLINE
CO	CLEANOUT
AD	AREA DRAIN
AB	ACCESS BASIN
DMH	DRAIN MANHOLE
WQS	WATER QUALITY STRUCTURE
CB	CATCH BASIN
DCB	DOUBLE CATCH BASIN
WQI	WATER QUALITY INLET
SMH	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
CL	CENTER LINE
CO	CLEANOUT
COP	CENTER OF PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
DCP	DROP CONNECTION
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON PIPE CEMENT LINED
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EJ	EXPANSION JOINT
EMH	ELECTRIC MANHOLE
FD	FLOOD 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	PERFORATED DRAIN
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCKPILE
RD	ROOF DRAIN
RM	ROOM ELEVATION
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TC	TOP OF CURB ELEVATION
THH	TELECOM HANDHOLE
TMH	TELECOM MANHOLE
TOP	TOP OF PIPE
TOO	TOP OF DUCT BANK
TYP	TYPICAL
UD	UNDERDRAIN
USD	UNDERSLAB DRAIN
VGC	VERTICAL GRANITE CURB
WQI	WATER QUALITY INLET
WQS	WATER QUALITY STRUCTURE
WV	WATER VALVE

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NITSOH PROJECT B12200
04/09/2019

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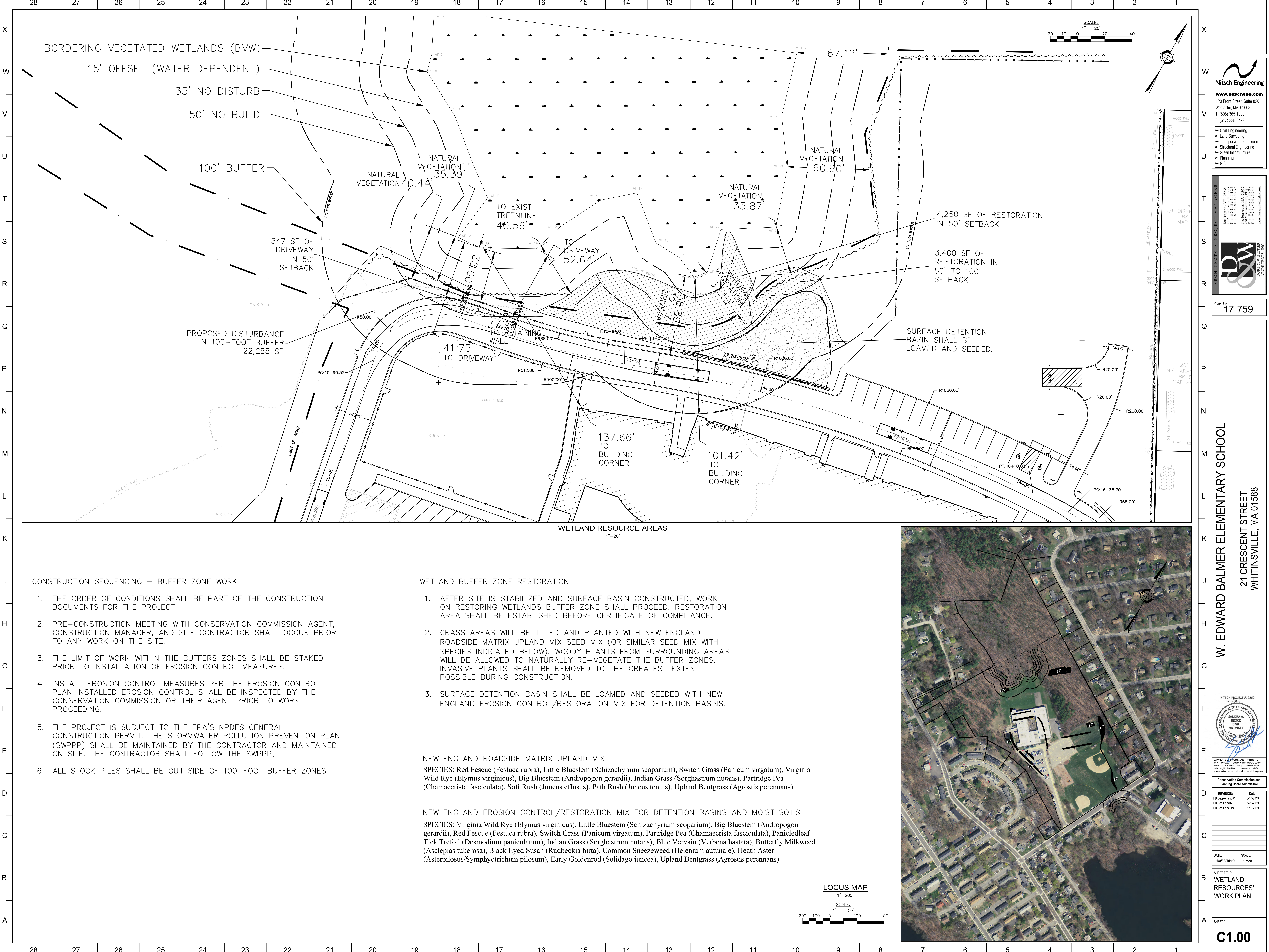
Conservation Commission and Planning Board Submission

REVISION:	Date:
PE Submittal #1	5-1-2019
PE Submittal #2	5-23-2019
PE Submittal Final	6-19-2019

DATE: 04/09/2019 SCALE: N/A

SHEET TITLE: CIVIL NOTES, LEGEND, & ABBREVIATIONS

SHEET # C0.00



CONSTRUCTION SEQUENCING — BUFFER ZONE WORK

1. THE ORDER OF CONDITIONS SHALL BE PART OF THE CONSTRUCTION DOCUMENTS FOR THE PROJECT.
2. PRE-CONSTRUCTION MEETING WITH CONSERVATION COMMISSION AGENT, CONSTRUCTION MANAGER, AND SITE CONTRACTOR SHALL OCCUR PRIOR TO ANY WORK ON THE SITE.
3. THE LIMIT OF WORK WITHIN THE BUFFERS ZONES SHALL BE STAKED PRIOR TO INSTALLATION OF EROSION CONTROL MEASURES.
4. INSTALL EROSION CONTROL MEASURES PER THE EROSION CONTROL PLAN INSTALLED EROSION CONTROL SHALL BE INSPECTED BY THE CONSERVATION COMMISSION OR THEIR AGENT PRIOR TO WORK PROCEEDING.
5. THE PROJECT IS SUBJECT TO THE EPA'S NPDES GENERAL CONSTRUCTION PERMIT. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED BY THE CONTRACTOR AND MAINTAINED ON SITE. THE CONTRACTOR SHALL FOLLOW THE SWPPP,
6. ALL STOCK PILES SHALL BE OUT SIDE OF 100-FOOT BUFFER ZONES.

WETLAND BUFFER ZONE RESTORATION

1. AFTER SITE IS STABILIZED AND SURFACE BASIN CONSTRUCTED, WORK ON RESTORING WETLANDS BUFFER ZONE SHALL PROCEED. RESTORATION AREA SHALL BE ESTABLISHED BEFORE CERTIFICATE OF COMPLIANCE.
2. GRASS AREAS WILL BE TILLED AND PLANTED WITH NEW ENGLAND ROADSIDE MATRIX UPLAND MIX SEED MIX (OR SIMILAR SEED MIX WITH SPECIES INDICATED BELOW). WOODY PLANTS FROM SURROUNDING AREAS WILL BE ALLOWED TO NATURALLY RE-VEGETATE THE BUFFER ZONES. INVASIVE PLANTS SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
3. SURFACE DETENTION BASIN SHALL BE LOAMED AND SEEDDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS.

NEW ENGLAND ROADSIDE MATRIX UPLAND MIX

SPECIES: Red Fescue (*Festuca rubra*), Little Bluestem (*Schizachyrium scoparium*), Switch Grass (*Panicum virgatum*), Virginia Wild Rye (*Elymus virginicus*), Big Bluestem (*Andropogon gerardii*), Indian Grass (*Sorghastrum nutans*), Partridge Pea (*Chamaecrista fasciculata*), Soft Rush (*Juncus effusus*), Path Rush (*Juncus tenuis*), Upland Bentgrass (*Agrostis perennans*)

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SOILS

SPECIES: Virginia Wild Rye (*Elymus virginicus*), Little Bluestem (*Schizachyrium scoparium*), Big Bluestem (*Andropogon gerardii*), Red Fescue (*Festuca rubra*), Switch Grass (*Panicum virgatum*), Partridge Pea (*Chamaecrista fasciculata*), Panicleleaf Tick Trefoil (*Desmodium paniculatum*), Indian Grass (*Sorghastrum nutans*), Blue Vervain (*Verbena hastata*), Butterfly Milkweed (*Asclepias tuberosa*), Black Eyed Susan (*Rudbeckia hirta*), Common Sneezeweed (*Helenium autumnale*), Heath Aster (*Aster pilosus*/Symphyotrichum pilosum), Early Goldenrod (*Solidago juncea*), Upland Bentgrass (*Agrostis perennans*).

LOCUS MAP

1"=200'

SCALE:

1" = 200'



W. EDWARD BALMER ELEMENTARY SCHOOL

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NITSCHE PROJECT #12240

6/12/2019

SANDRA A. BROCK

CIVIL

No. 39417

PROFESSIONAL SEAL

COMMONWEALTH OF MASSACHUSETTS

Conservation Commission and Planning Board Submission

REVISION: Date:

PB Supplement #1 5-17-2019

PB Con Com #2 5-25-2019

PB Con Com Final 6-18-2019

DATE: SCALE:

06/03/2019 1"=20'

SHEET TITLE:

WETLAND

RESOURCES'

WORK PLAN

SHEET #

C1.00

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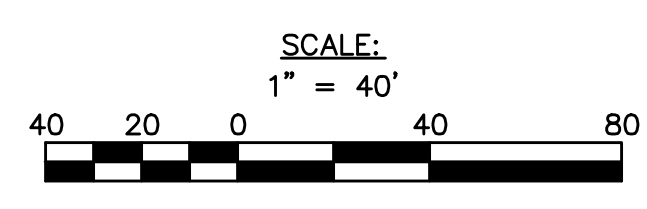
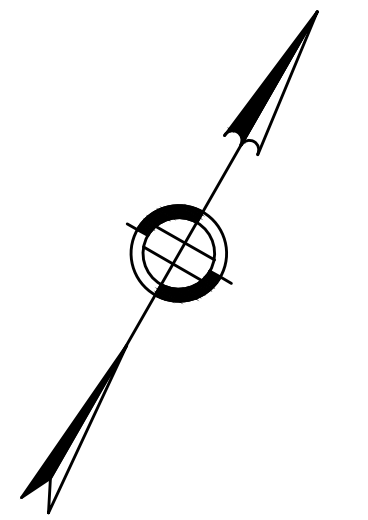
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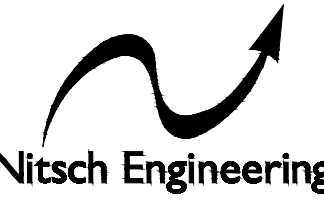
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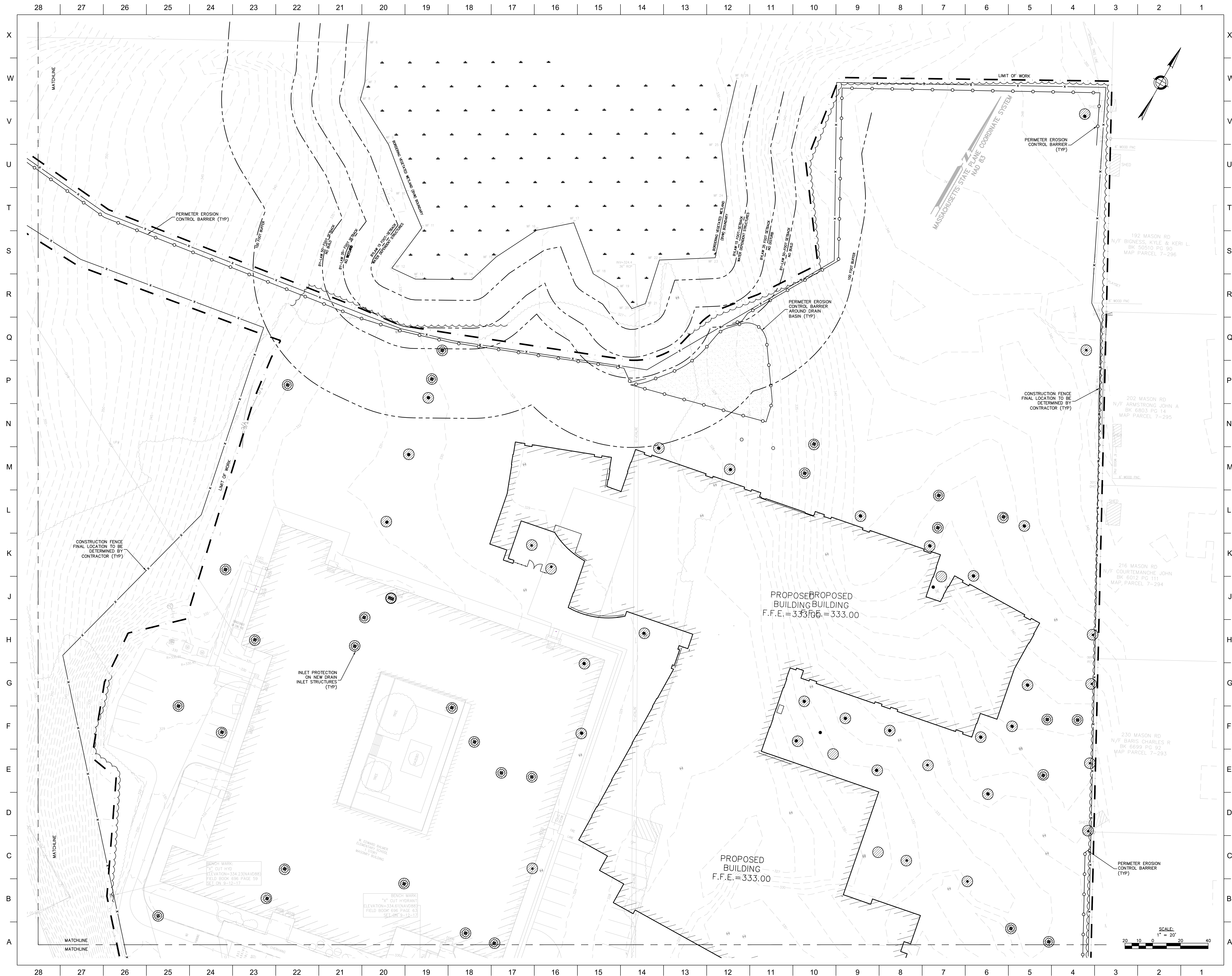
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PR Com Com #2		5-23-2019
PR Com Com Final		6-19-2019

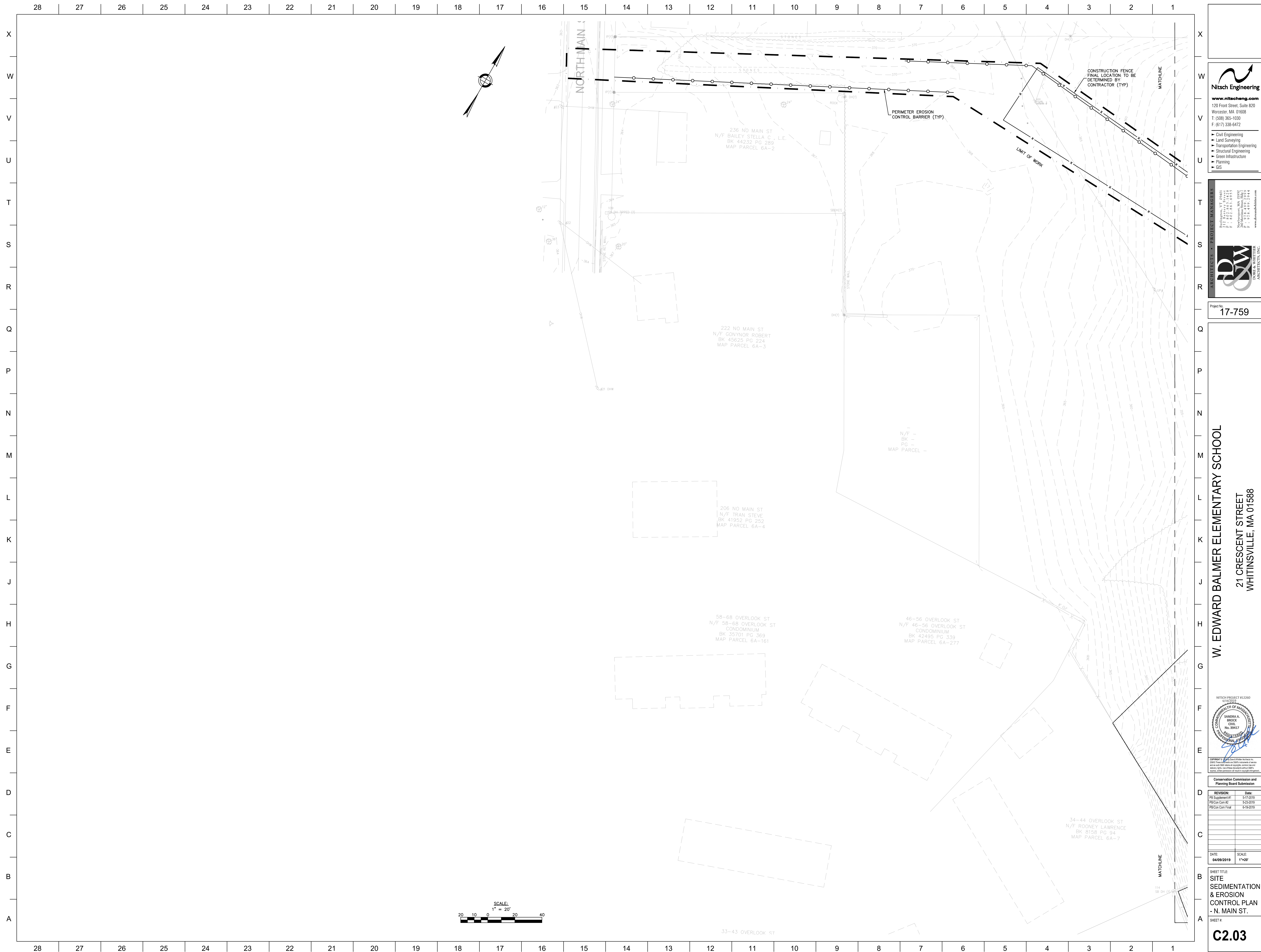
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SHEET TITLE:
**OVERALL SITE
PREPARATION
& UTILITY
DEMOLITION
PLAN**

SHEET #:
C2.00





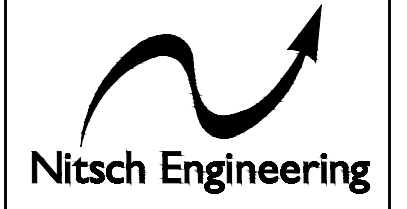






NOTES:
1. MAINTAIN AND PROTECT ALL UTILITIES SERVING THE EXISTING SCHOOL BUILDING UNTIL THE PROPOSED BUILDING HAS BEEN COMPLETED AND THE EXISTING BUILDING HAS BEEN ABANDONED.
2. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND INFORM NITSCH ENGINEERING IF EXISTING BURIED UTILITIES ARE ENCOUNTERED THAT ARE NOT NOTED ON THE PLANS.


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



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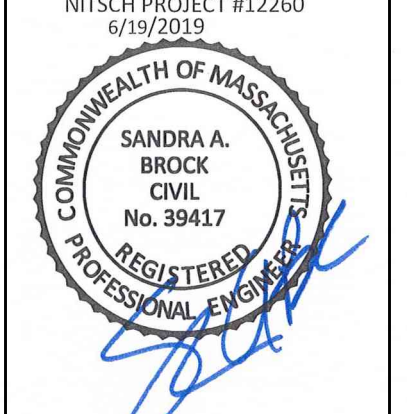


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NITSCH PROJECT #12240
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PB Con Com #2	5-23-2019
PB Con Com Final	6-19-2019

DATE:	SCALE:
04/09/2019	1"=20'

SHEET TITLE:
SITE UTILITY DEMOLITION PLAN - NORTH MAIN STREET

SHEET #:
C2.06



NOTES:
1. ALL CURB ON SITE SHALL BE VERTICAL GRANITE CURB
2. GRANITE TRANSITION CURB (6-FIT) SHALL BE USED TO TRANSITION DOWN TO FLUSH CONDITION AT PEDESTRIAN RAMPS.
3. ALL ROADWAYS AND PARKING LOTS SHALL BE FULL DEPTH HOT MIX ASPHALT PAVEMENT.
4. SEE LANDSCAPE PLANS FOR SITE WALKWAYS AND LANDSCAPED AREAS.
5. UTILITY TRENCH REPAIRS IN PUBLIC WAYS SHALL BE 8' WIDE (MINIMUM) ACROSS ENTIRE WIDTH OF ROADWAY (SEE DETAIL).

LEGEND

HOT MIX ASPHALT PAVEMENT

SNOW STORAGE

SCALE:
1" = 40'

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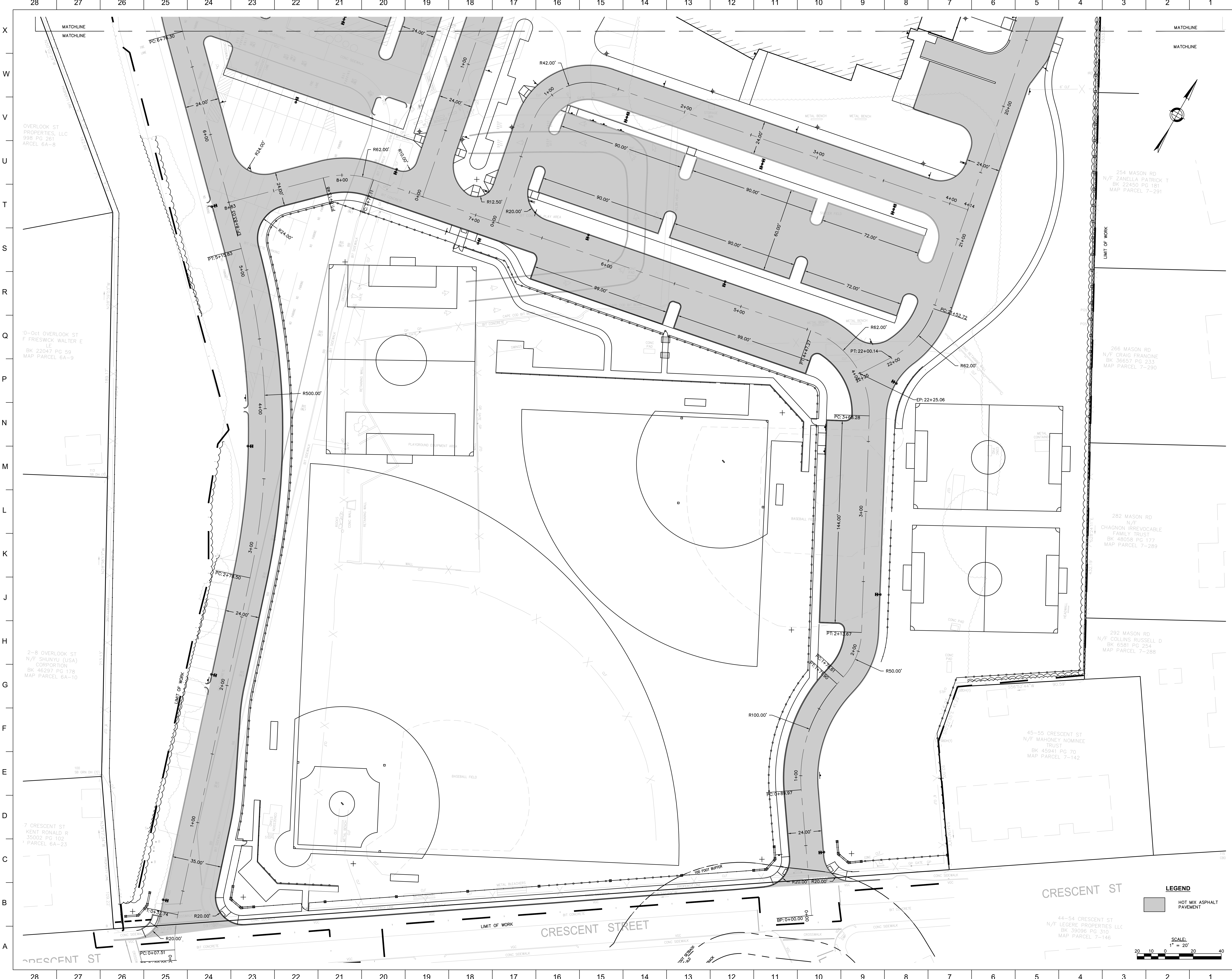
Conservation Commission and Planning Board Submission

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PEB Con Com #2	5-23-2019
PEB Con Com Final	6-19-2019

DATE:	SCALE:
04/09/2019	1"=40'

SHEET TITLE
OVERALL ROADWAY LAYOUT PLAN

SHEET #
C3.00



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#1729252

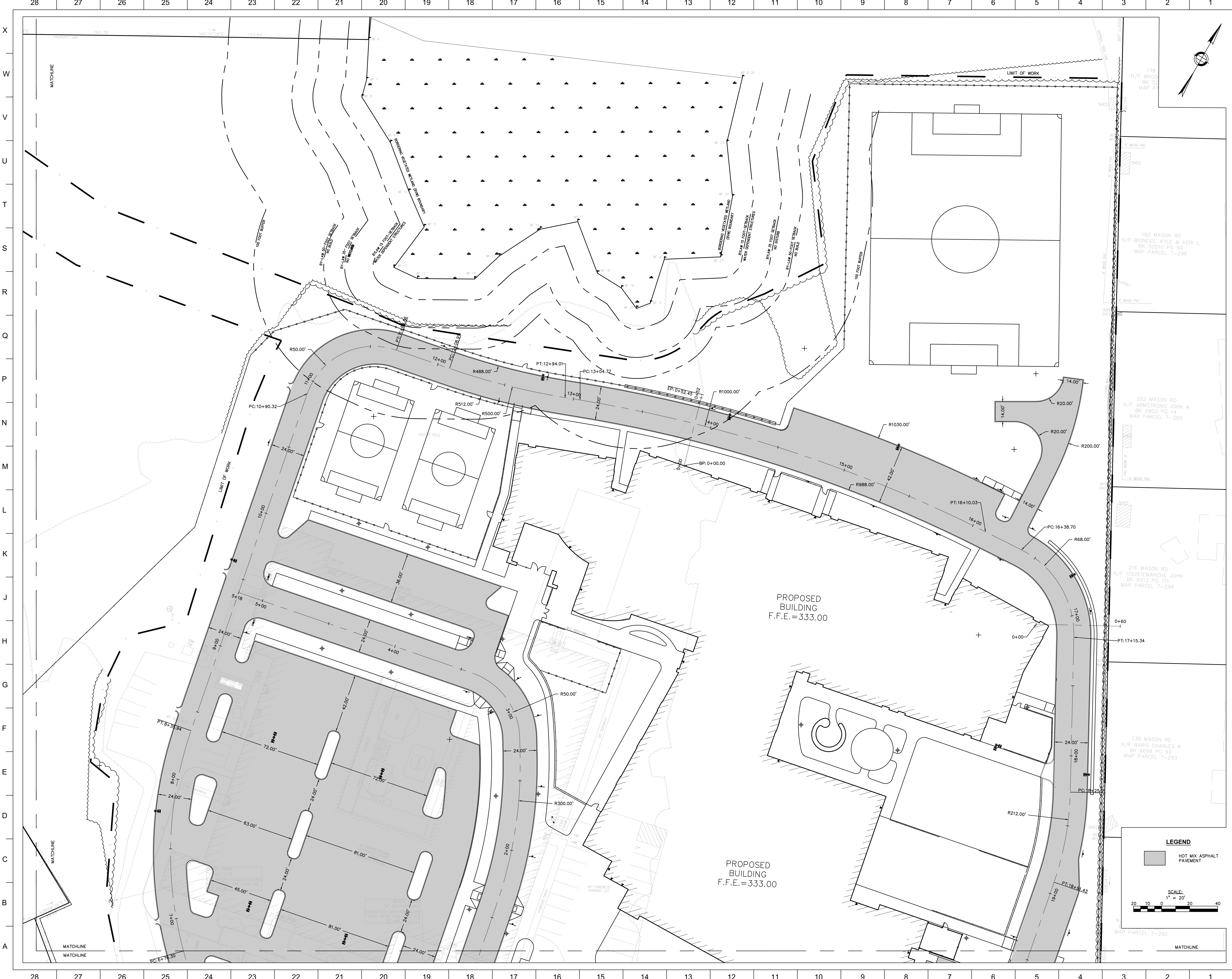
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No. 39417

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PR/Con Com Final	6-18-2019

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SHEET TITLE:
ROADWAY LAYOUT PLAN SOUTH

SHEET #
C3.01



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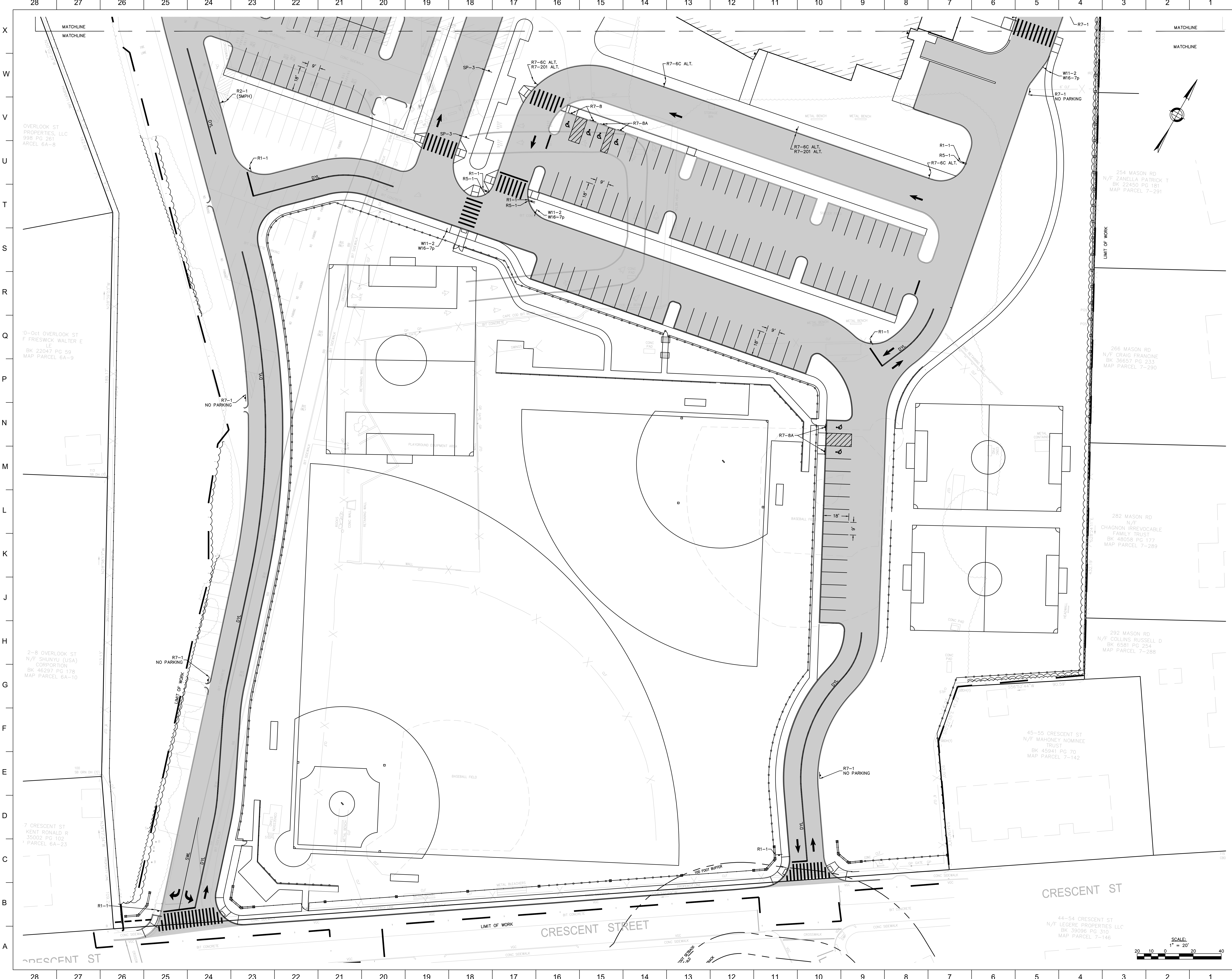
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PB Supplement #1	5-17-2019
PB Con Com #2	5-23-2019
PB Con Com Final	6-18-2019

DATE:	SCALE:
06/03/2019	1"=20'

SHEET TITLE:
ROADWAY LAYOUT PLAN NORTH

SHEET #
C3.02



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#1729252

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CIVIL
No. 39417

COMMONWEALTH OF MASSACHUSETTS
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Conservation Commission and Planning Board Submission

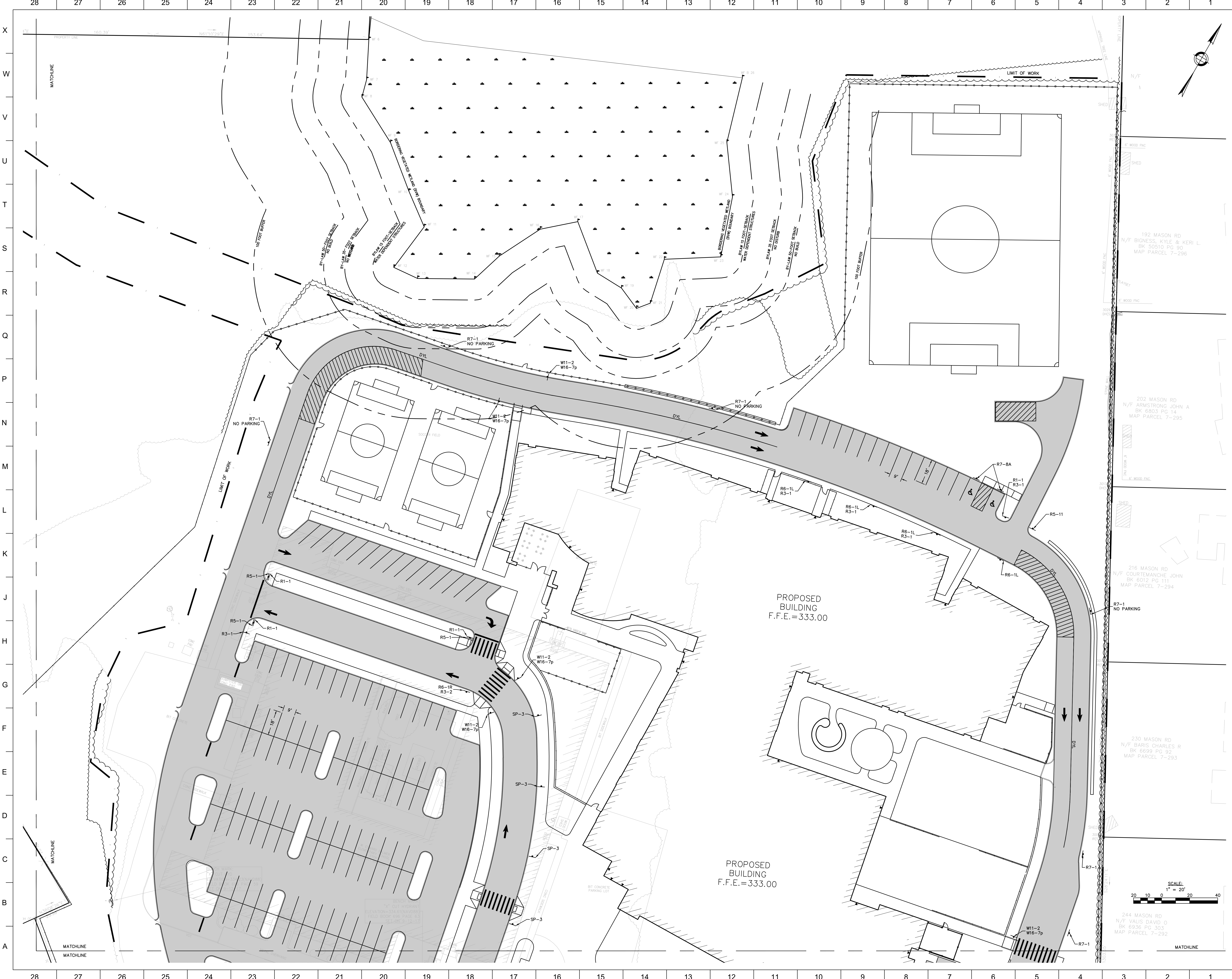
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PR Supplement #1	5-17-2019
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PR/Con Com Final	6-18-2019

DATE: 06/03/2019

SCALE: 1" = 20'

SHEET TITLE:
**ROADWAY
SIGNAGE AND
STRIPING PLAN
SOUTH**

SHEET #
C3.03



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4/15/2019

SANDRA A. BROCK
CIVIL
No. 39417
STATE OF MASSACHUSETTS

SEAL: 6/15/2019
DATE: 6/15/2019

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REVISION:	Date:
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PB/Con Com #2	5-25-2019
PB/Con Com Final	6-18-2019

SHEET TITLE:
**ROADWAY
SIGNAGE AND
STRIPING PLAN
NORTH**

SHEET #
C3.04



- BUILDING LAYOUT NOTES:**
1. THE LOCATION OF THE CORNER AND OUTSIDE FACE OF THE PROPOSED BUILDING FOUNDATION WALL WAS TAKEN FROM AN AUTOCAD FILE RECEIVED FROM CLIENT ON DATE 02/27/2019.
 2. ALL DIMENSIONS ARE PERPENDICULAR TO THE PROPERTY LINES.
 3. THE BUILDING LOCATION INFORMATION SHOWN ON THIS PLAN PROVIDES THE POSITION AND ORIENTATION OF THE BUILDING. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING AND FOUNDATION DIMENSIONS, INCLUDING BUILDING OVERHANGS AND AREAWAYS. THE CONTRACTOR SHALL VERIFY BUILDING AND FOUNDATION DIMENSIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

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#1729552

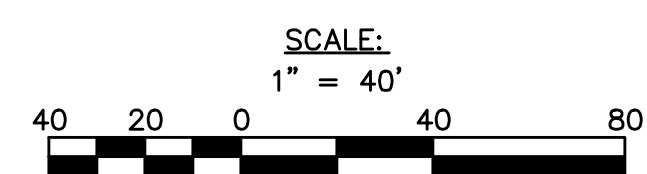
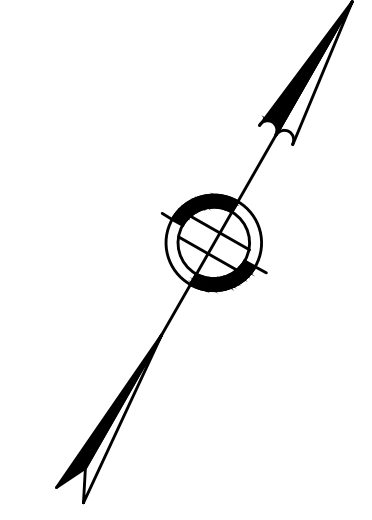
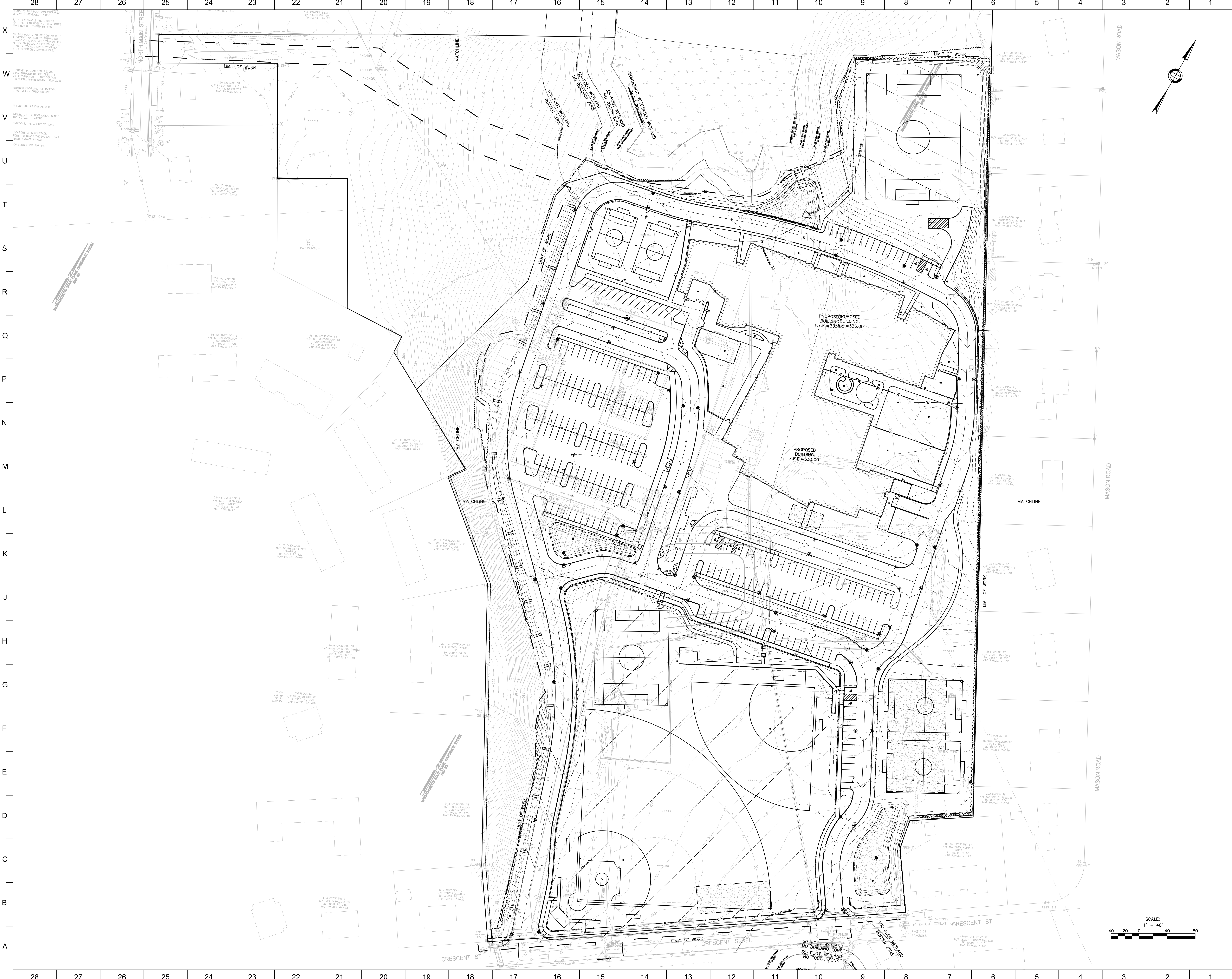
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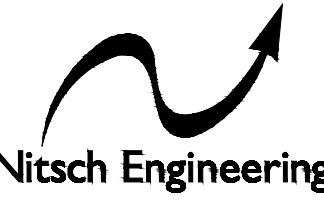
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REVISION:	DATE:
PRELIMINARY	5-17-2019
PRELIMINARY	5-23-2019
PRELIMINARY	6-19-2019

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04/09/2019	1"=40'

SHEET TITLE
BUILDING LOCATION PLAN


SHEET #
C3.05





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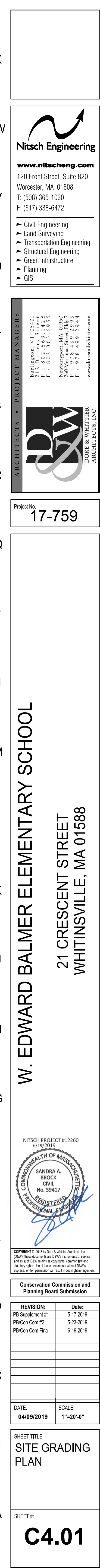
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PB Com Com Final	6-18-2019

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SHEET TITLE
OVERALL SITE GRADING PLAN

SHEET #
C4.00



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NITSCH PROJECT #12260
6/19/2019



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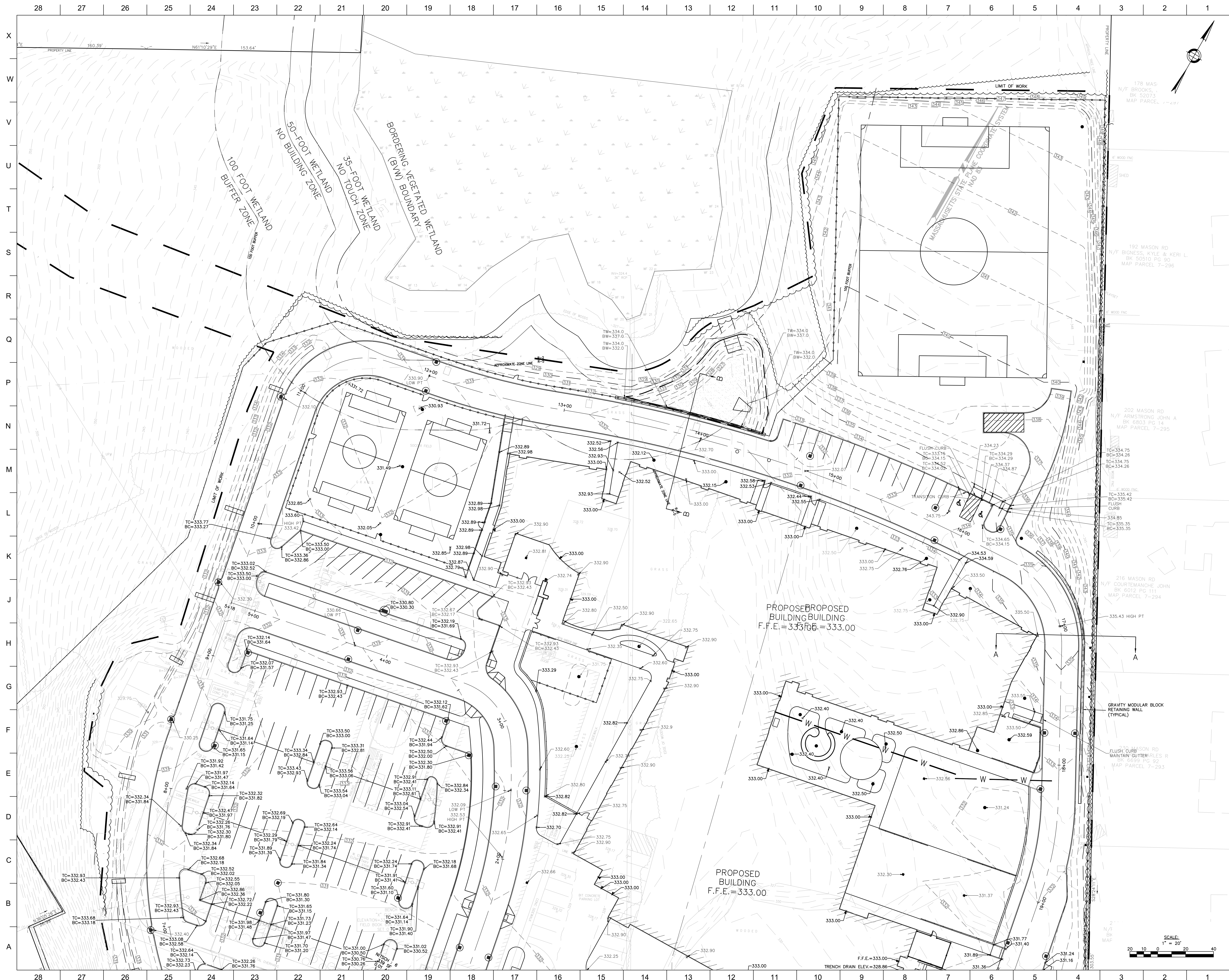
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**SITE GRADING
PLAN**

SHEET #:

C4.01



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6/29/2019

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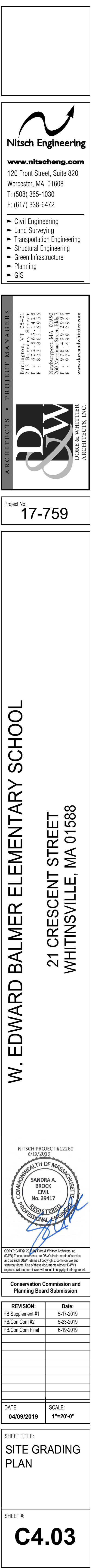
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SITE GRADING PLAN

SHEET #:
C4.02



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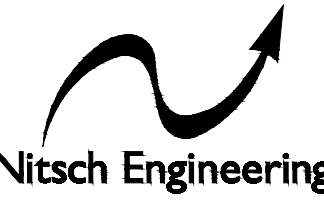
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#12260-2019-01



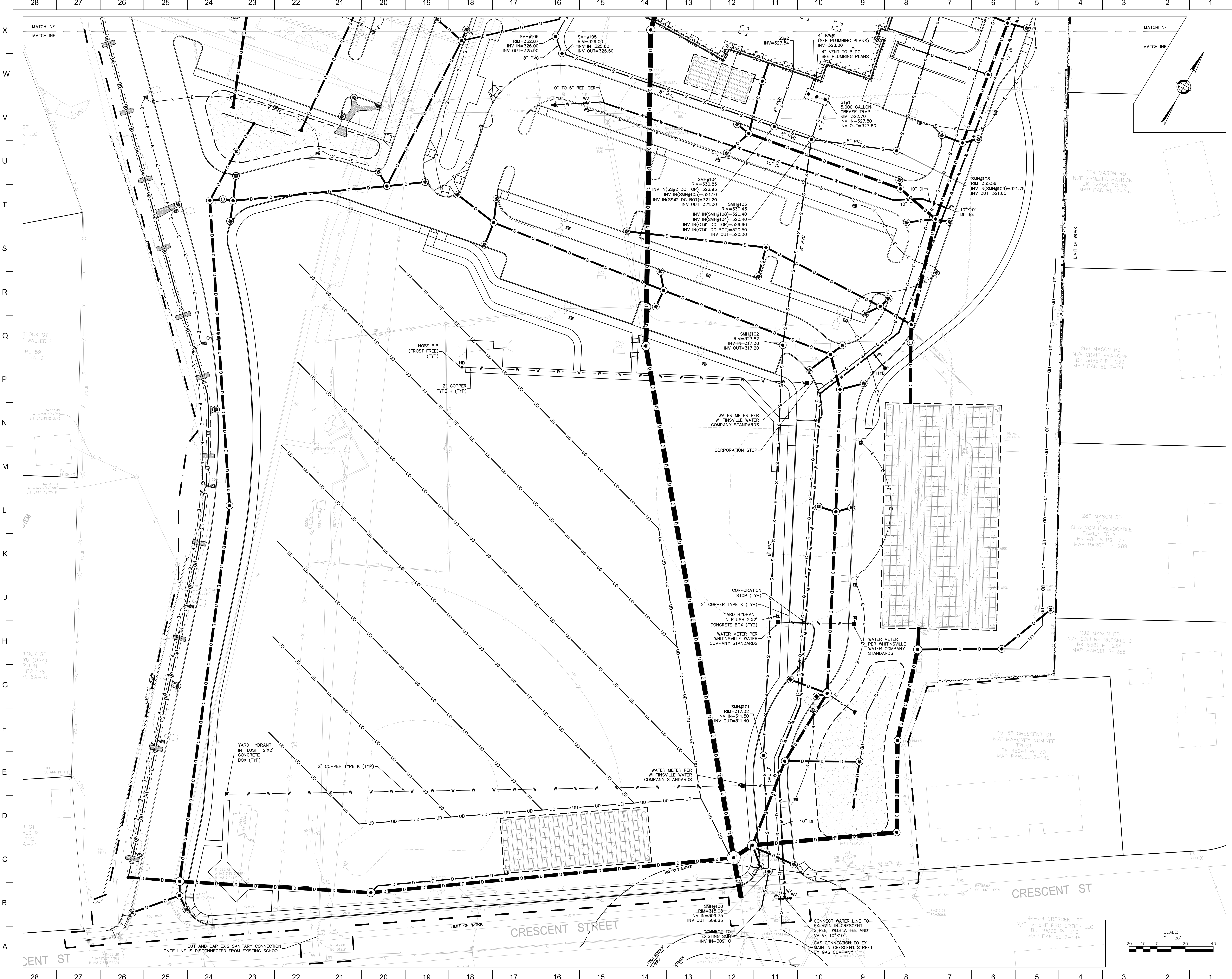
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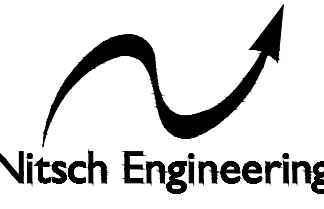
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PR Supplement #2	5-23-2019
PR Supplement #3	6-19-2019

DATE:	SCALE:
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SHEET TITLE
OVERALL SITE UTILITY PLAN

SHEET #
C5.00






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4/12/2018



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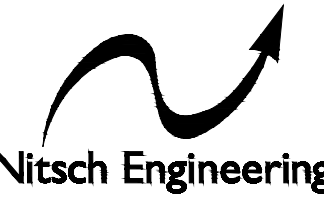
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PB Com Com Final	6-19-2019

DATE:	SCALE:
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SHEET TITLE
SITE UTILITY PLAN SOUTH


SHEET #
C5.01





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PRELIMINARY	5-23-2019
PRELIMINARY	6-18-2019

DATE: 04/09/2019 SCALE: 1"=20'

SHEET TITLE: SITE UTILITY PLAN NORTH

SHEET #:

C5.02

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PROJECT No. 17-759

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N/F BIONESS, KYLE & KERI L
BK 30510 PG 90
MAP PARCEL 7-296

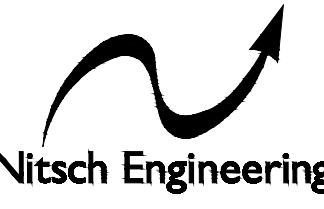
202 MASON RD
N/F ARMSTRONG JOHN A
BK 6803 PG 14
MAP PARCEL 7-295

216 MASON RD
N/F COURTEMACHE JOHN
BK 6012 PG 111
MAP PARCEL 7-294

230 MASON RD
N/F BARIS CHARLES R
BK 6899 PG 92
MAP PARCEL 7-293


244 MASON RD





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Project No.
17-759

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NITSCH PROJECT B12260
6/12/2019



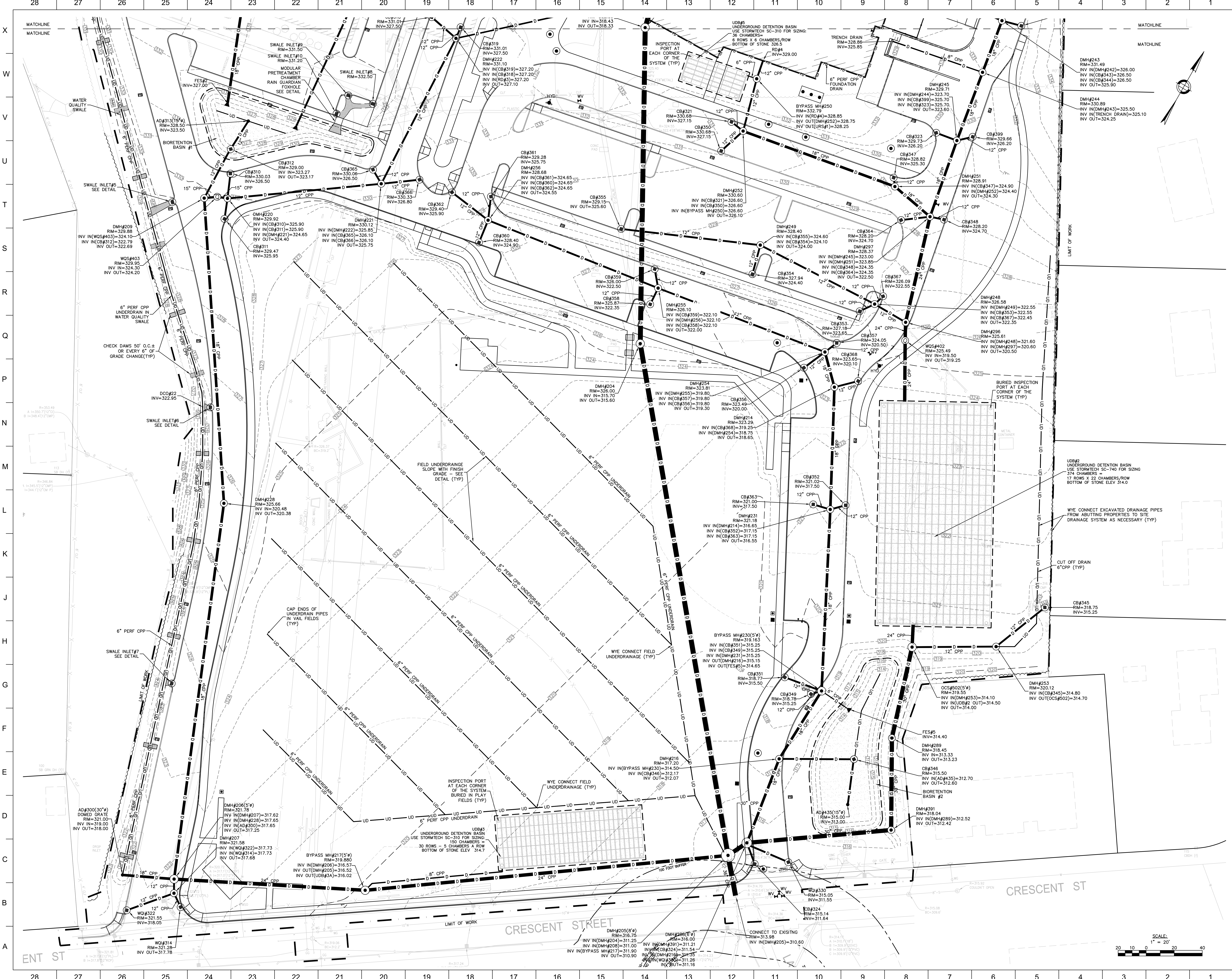
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Conservation Commission and Planning Board Submission	
REVISION:	Date:
PB Supplement #1	5-17-2019
PB Con Com #2	5-23-2019
PB Con Com Final	6-18-2019

DATE	SCALE
04/09/2019	1"=20'

SHEET TITLE
SITE UTILITY PLAN
NORTH MAIN ST

SHEET #:
C5.03



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NITSCHE PROJECT #12260
W/20252

SANDRA A. BROCK
CIVIL
No. 39417

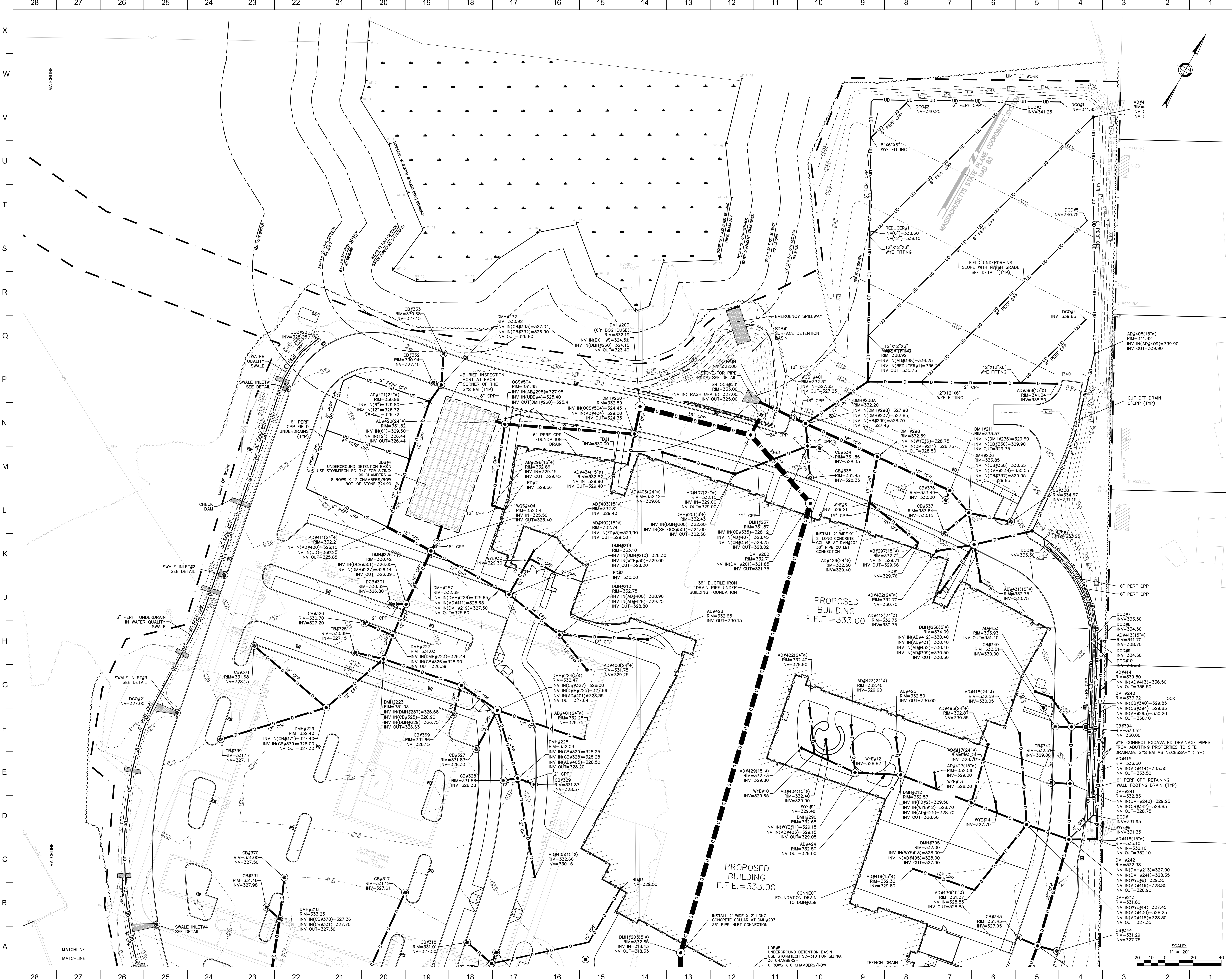
Conservation Commission and Planning Board Submission

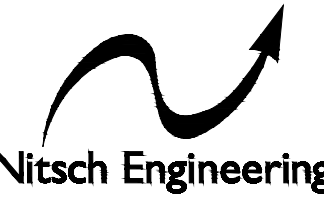
REVISION:	Date:
PEI Supp Item #1	5-13-2019
PEI Supp Item #2	5-23-2019
PEI Supp Item #3	6-19-2019

DATE: 04/09/2019 SCALE: 1"=20'

SHEET TITLE: **SITE DRAINAGE PLAN SOUTH**


SHEET # **C5.04**





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NITSCHE PROJECT #172200
K172200

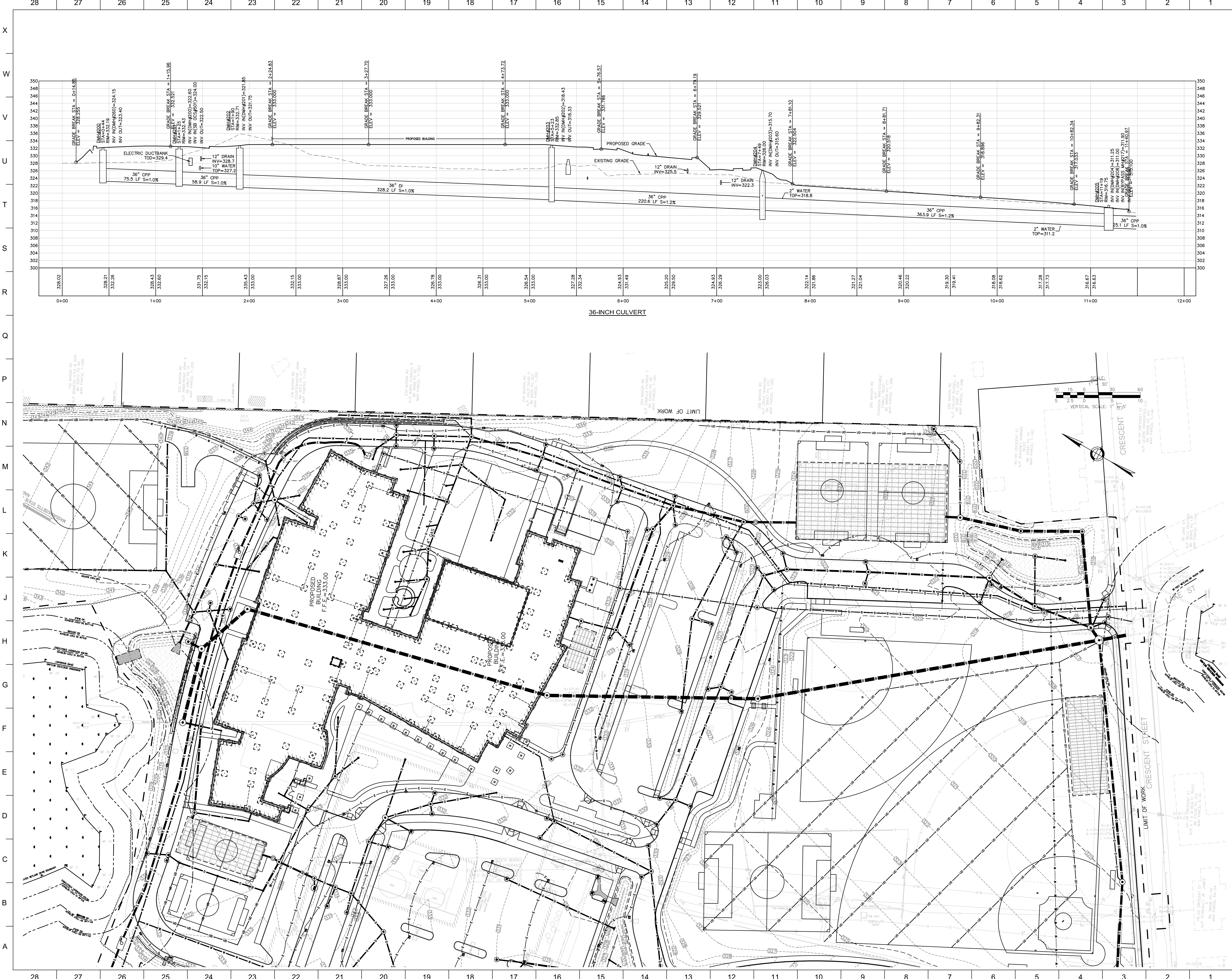
SANDRA A. BROCK
CIVIL
No. 39417
MASSACHUSETTS
REGISTERED PROFESSIONAL ENGINEER

REVISION:		Date:
PR Supplement #1	5-11-2019	
PR Con Com #2	5-20-2019	
PR Con Com Final	6-19-2019	

DATE: 04/09/2019 SCALE: 1"=20'

SHEET#

C5.05



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NITSCH PROJECT B12200
W/20202

SANDRA A. BROOK
CIVIL
No. 39417

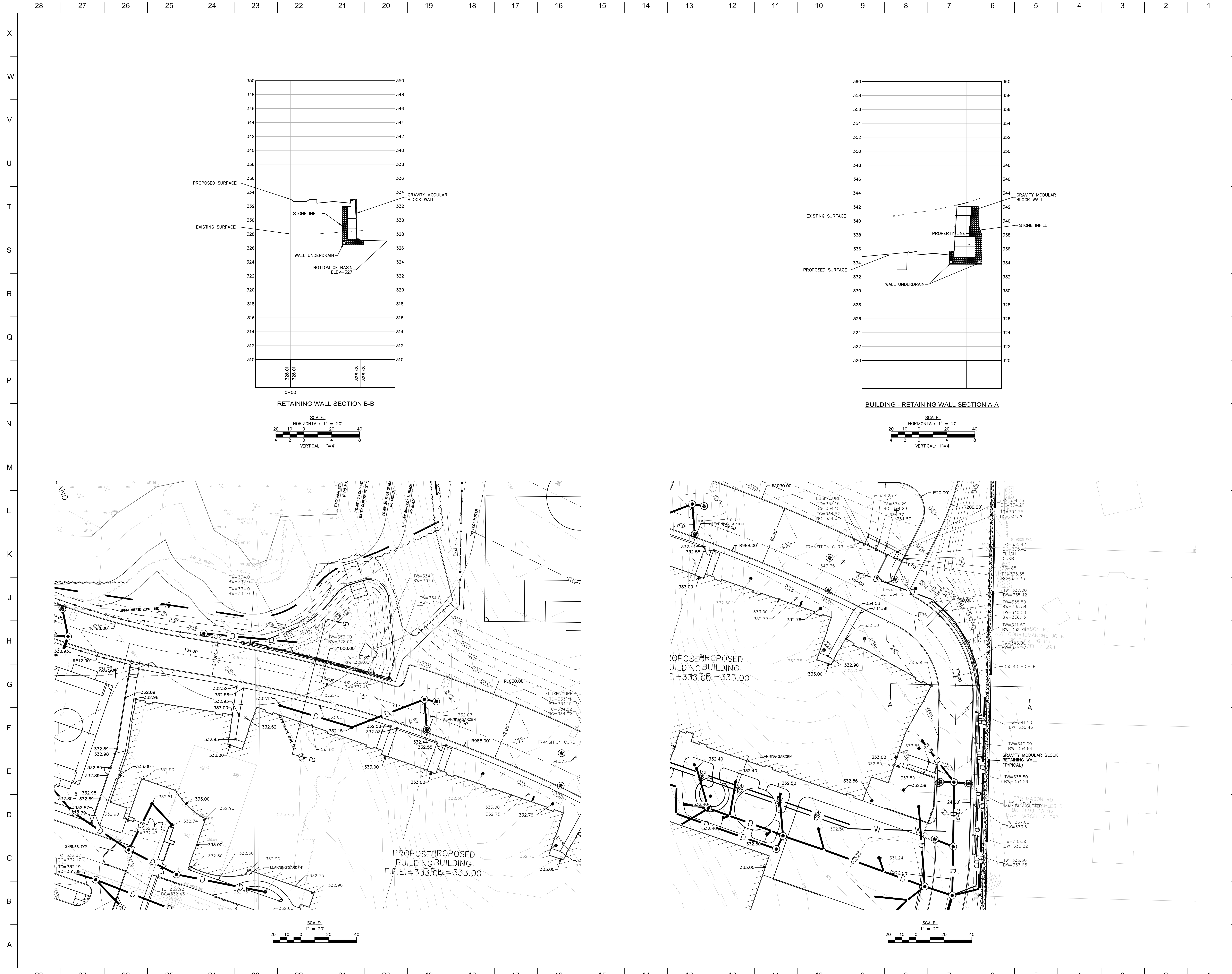
Conservation Commission and Planning Board Submission

REVISION:	DATE:
PR Submittal #1	5-13-2019
PR Submittal #2	5-23-2019
PR Submittal #3	6-18-2019

DATE:	SCALE:
04/09/2019	1"=30'

SHEET TITLE:
36" DRAIN PLAN AND PROFILE

SHEET #:
C5.06



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Project No:
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NITSCH PROJECT #12269
6/19/2019

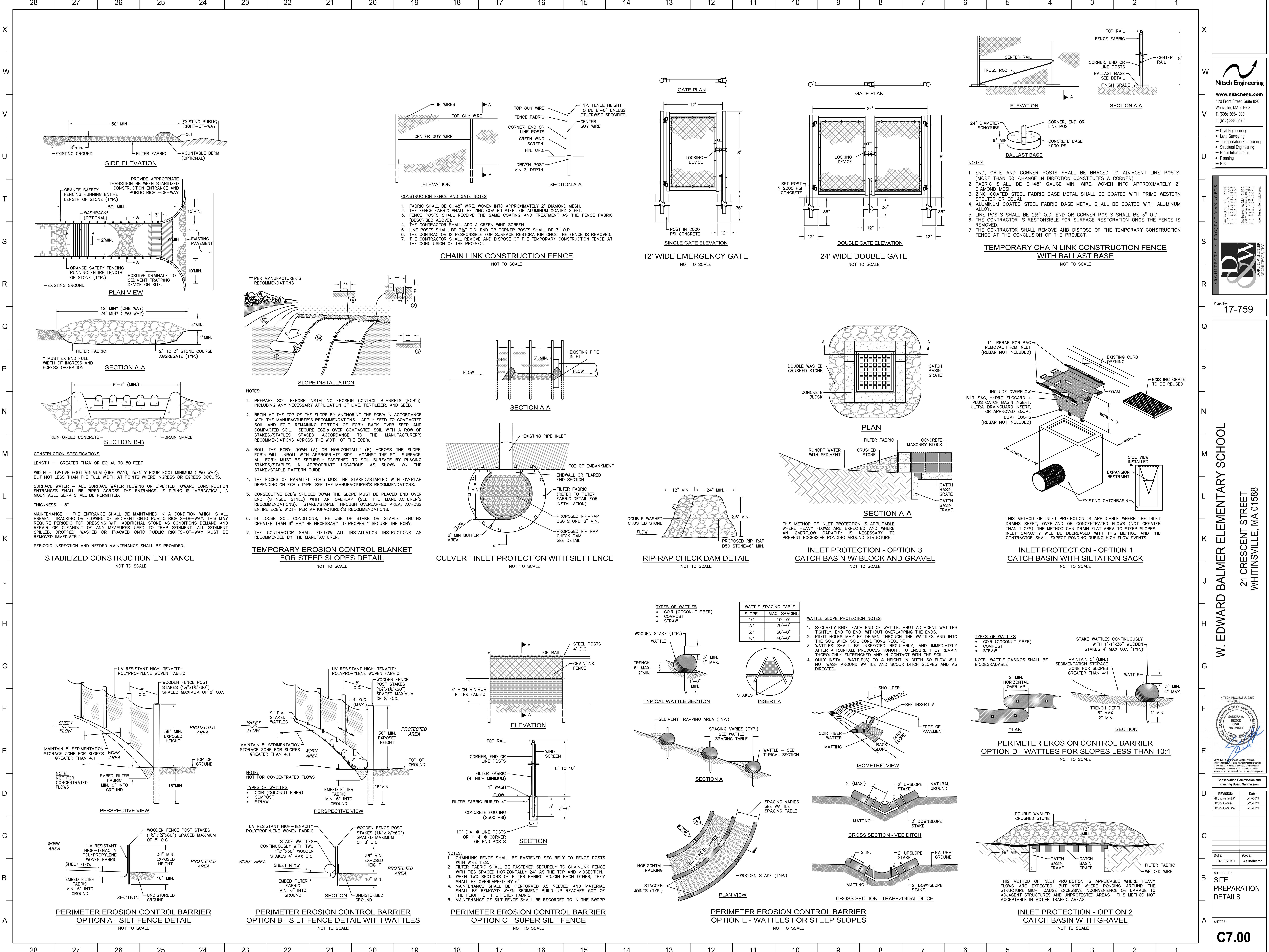
Conservation Commission and Planning Board Submission

REVISION:	Date:
PS Supplement #1	5-17-2019
PS Civil Gen #2	5-28-2019
PS Civil Gen Final	6-18-2019

DATE: 04/08/2019 SCALE: 1"=20'-0"

SHEET TITLE:
RETAINING WALL SECTIONS

SHEET #
C6.07



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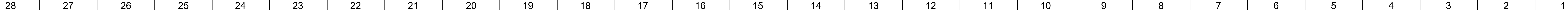
CONSERVATION COMMISSION OF MASSACHUSETTS
SANDRA A. BROCK
CIVIL
No. 39417

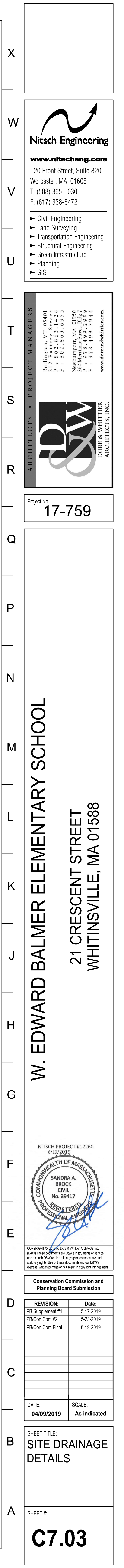
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Date: 5-23-2019
P&C: 6-19-2019

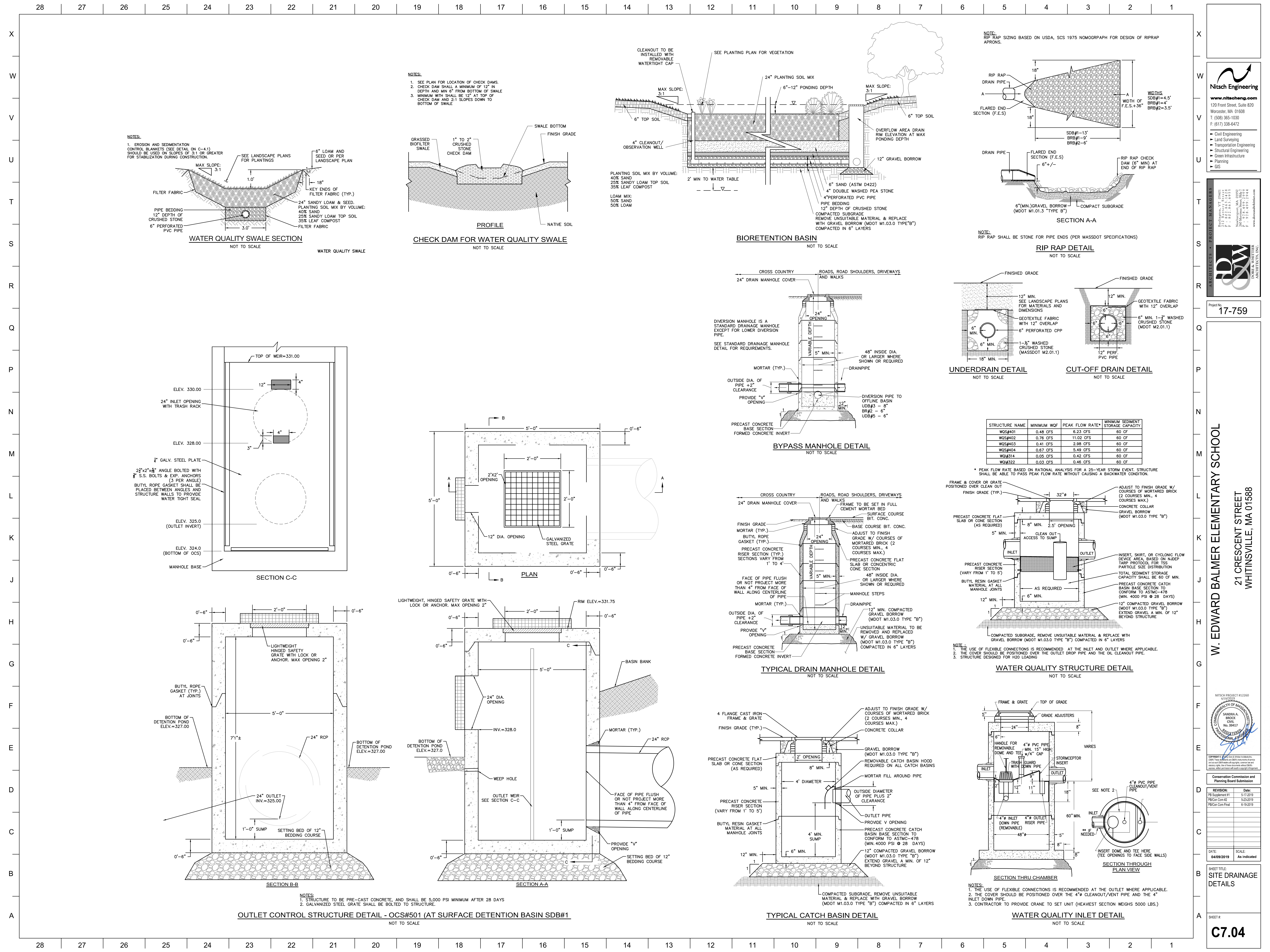
DATE: 04/09/2019 SCALE: As indicated

SHEET TITLE: SITE PREPARATION DETAILS
SHEET # C7.00









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Project No. 17-759

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INTSCH PROJECT #12240
6/12/2019

SANDRA A. BROCK
CIVIL
No. 39417

Conservation Commission and Planning Board Submission

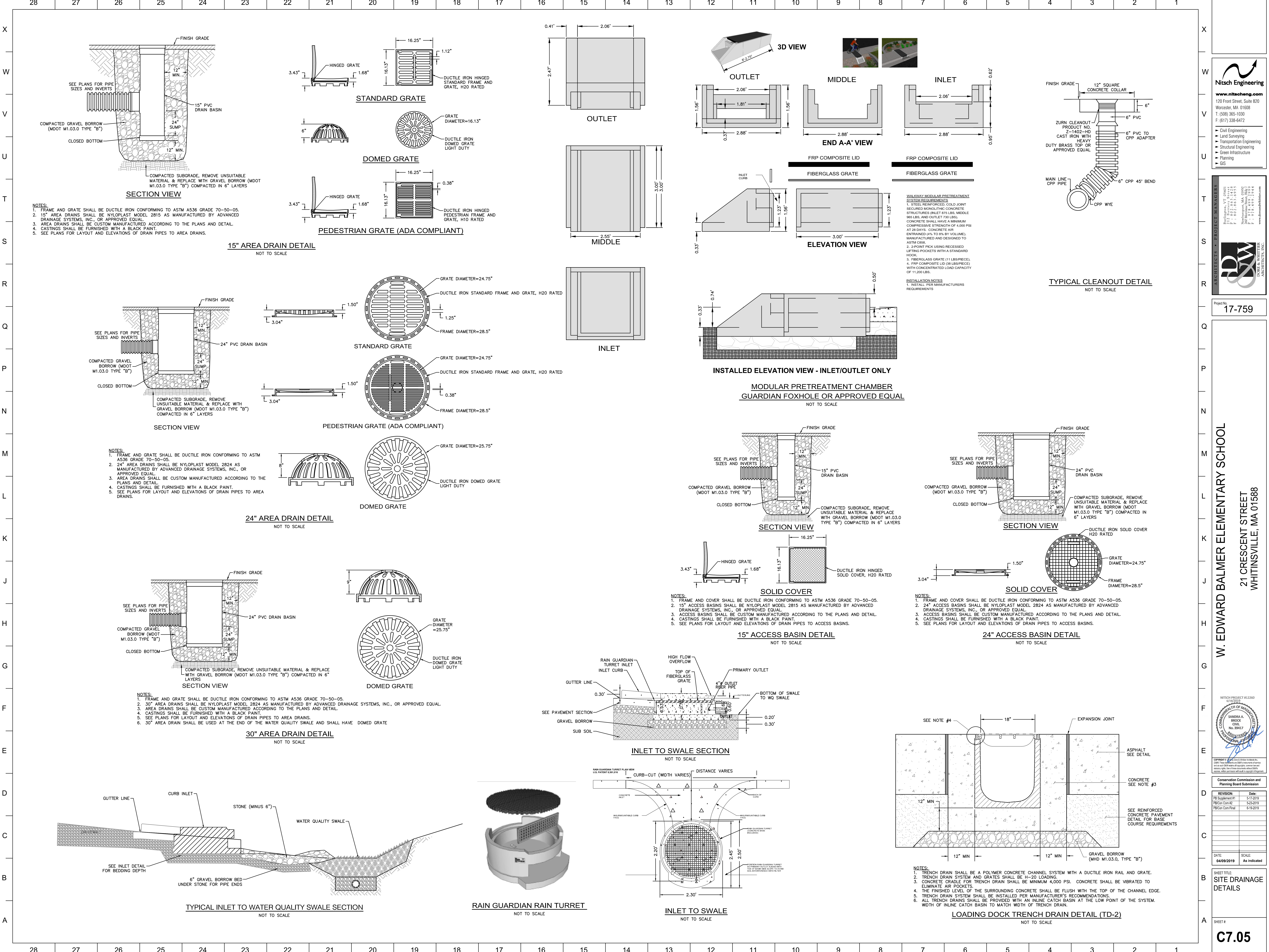
REVISION: 5-1-2019
Date: 5-1-2019
PB Supp Item #1
PB Con Com #2
PB Con Com Final

DATE: 04/09/2019
SCALE: As indicated

SHEET TITLE: SITE DRAINAGE DETAILS

SHEET #

C7.04



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Project No:
17-759

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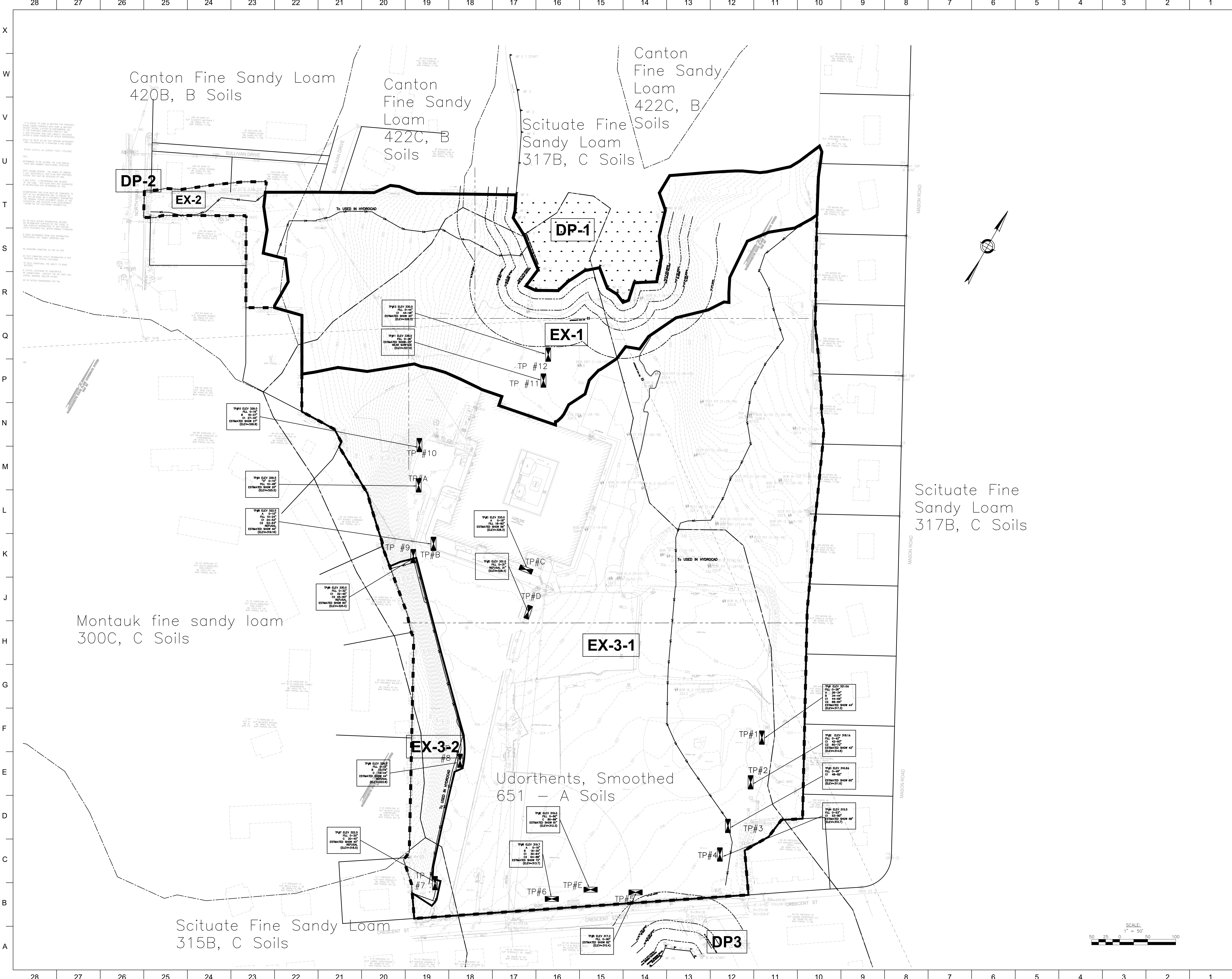
Conservation Commission and Planning Board Submission

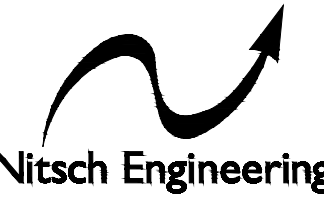
REVISION:	Date:
PR Supplement #1	5-17-2019
PR Con Com #2	5-23-2019
PR Con Com Final	6-18-2019

DATE: 04/09/2019 SCALE: As Indicated

SHEET TITLE:
SITE DRAINAGE DETAILS


SHEET #
C7.05





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REVISION:	Date:
NOI #1	4-15-2019
NOI #2	5-18-2019

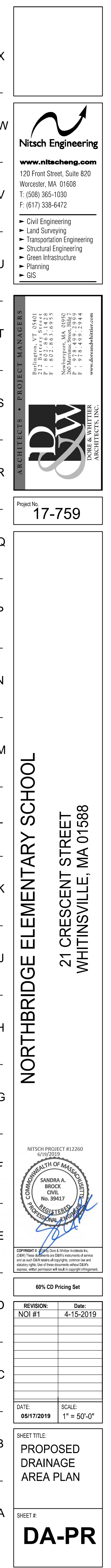
DATE:	SCALE:
05/17/2019	1" = 50'-0"

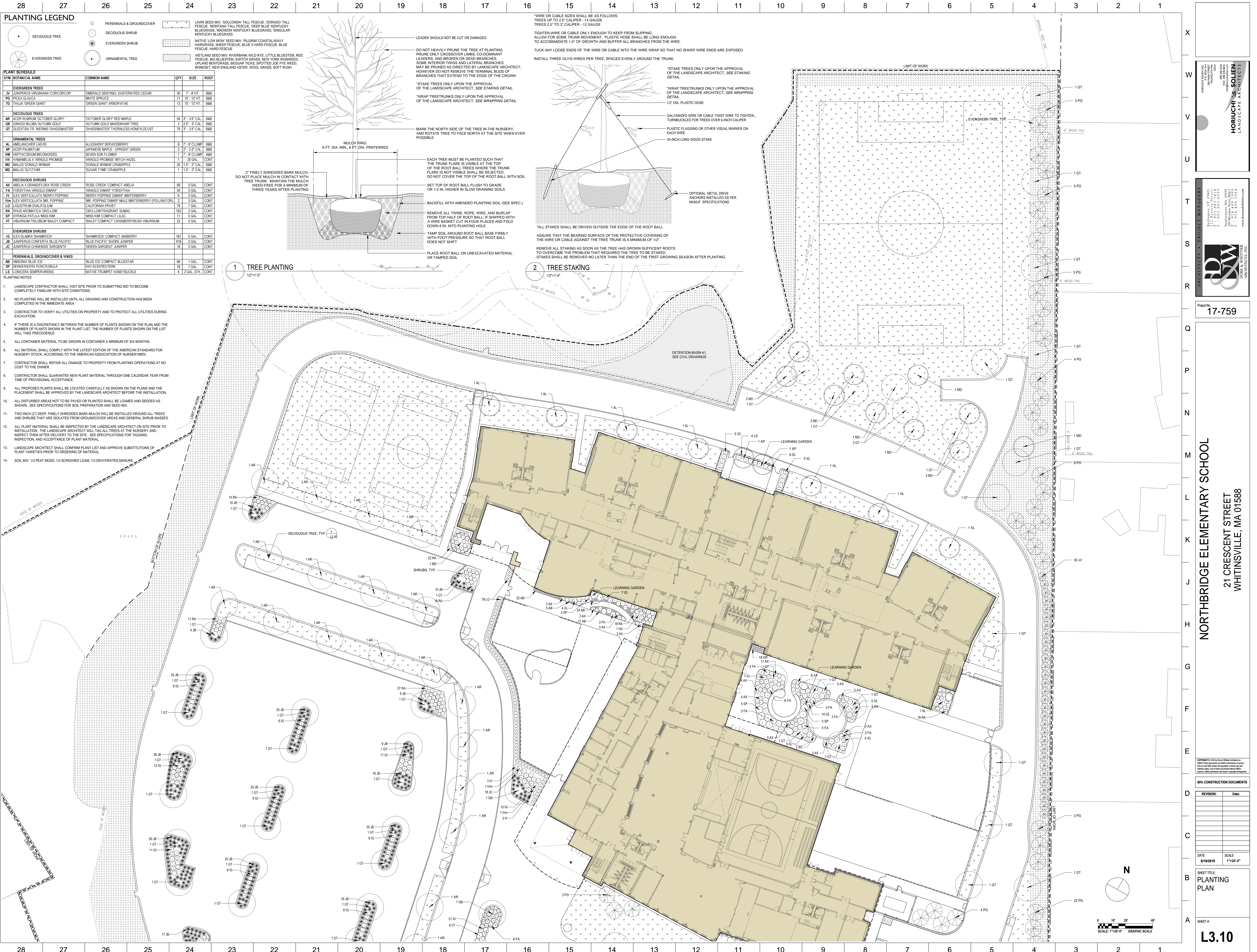
SHEET TITLE
EXISTING DRAINAGE AREA PLAN

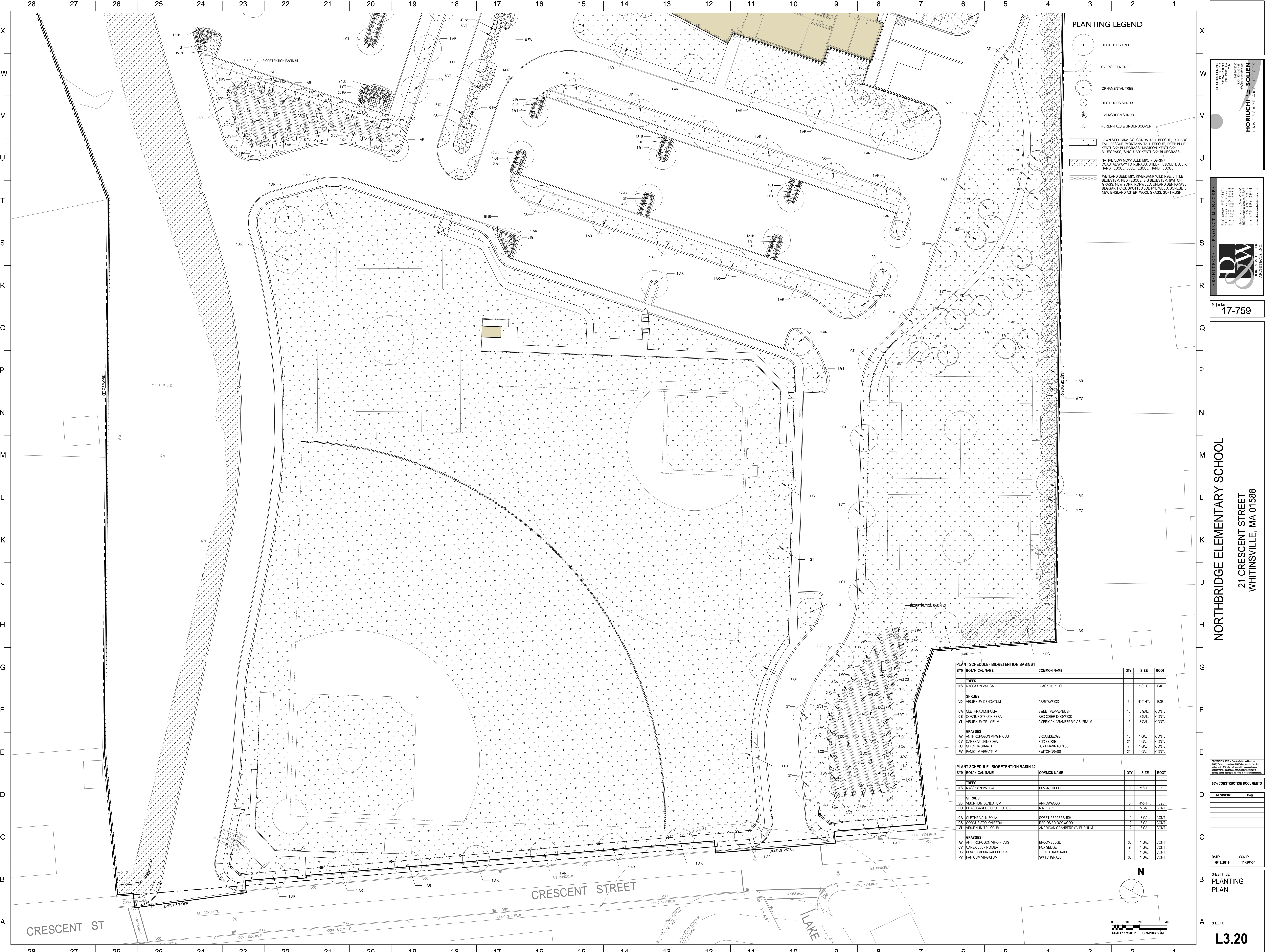
SHEET #
DA-EX

Project No.
17-759

NORTHBRIDGE ELEMENTARY SCHOOL
21 CRESCENT STREET
WHITINSVILLE, MA 01588







PLANTING LEGEND

- DECIDUOUS TREE
- EVERGREEN TREE
- ORNAMENTAL TREE
- DECIDUOUS SHRUB
- EVERGREEN SHRUB
- PERENNIALS & GROUNDCOVER
- LAWN SEED MIX: GOLDCORN TALL FESCUE, DORADO TALL FESCUE, MONTANA TALL FESCUE, DEEP BLUE KENTUCKY BLUEGRASS, MADISON KENTUCKY BLUEGRASS, SINGULAR KENTUCKY BLUEGRASS
- NATIVE LOW MOW SEED MIX: PILGRIM COASTAL WAVY HAIRGRASS, SHEEP FESCUE, BLUE X HARD FESCUE, BLUE FESCUE, HARD FESCUE
- WETLAND SEED MIX: RIVERSIDE WILD RYE, LITTLE BLUESTEM, RED FESCUE, BIG BLUESTEM, SWITCH GRASS, NEW YORK BROMEFIELD, UPLAND BENTGRASS, BEGGAR TICS, SPOTTED JOE PINE WOOD, BONESET, NEW ENGLAND ASTER, WOOL GRASS, SOFT RUSH

PLANT SCHEDULE - BIORETENTION BASIN #1			
SYM.	BOTANICAL NAME	COMMON NAME	QTY
TREES			
NS	NYSSA SYLVATICA	BLACK TUPELO	1
SHRUBS			
VD	VIBURNUM DENDATUM	ARROWWOOD	3
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	15
CS	CORNUS STOLONIFERA	RED OSIER DOGWOOD	15
VT	VIBURNUM TRILOBUM	AMERICAN CRANBERRY VIBURNUM	15
GRASSES			
AV	ANTHROPOGON VIRGINICUS	BROOMSEDGE	15
CV	CAREX VULPINOIDEA	FOX SEDGE	24
SB	ISOPYZA STRATA	FOAL MANNA GRASS	9
PV	PANICUM VIRGATUM	SWITCHGRASS	25

PLANT SCHEDULE - BIORETENTION BASIN #2			
SYM.	BOTANICAL NAME	COMMON NAME	QTY
TREES			
NS	NYSSA SYLVATICA	BLACK TUPELO	3
SHRUBS			
VD	VIBURNUM DENDATUM	ARROWWOOD	6
PO	PHYSCARPUS OPULEFOLIUS	NINEBARK	3
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	12
CS	CORNUS STOLONIFERA	RED OSIER DOGWOOD	12
VT	VIBURNUM TRILOBUM	AMERICAN CRANBERRY VIBURNUM	12
GRASSES			
AV	ANTHROPOGON VIRGINICUS	BROOMSEDGE	36
CV	CAREX VULPINOIDEA	FOX SEDGE	9
DC	DESCHAMPSIA CAESPITOSA	TUFTED HAIRGRASS	6
PV	PANICUM VIRGATUM	SWITCHGRASS	36

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PROJECT NO.
17-759

NORTHBRIDGE ELEMENTARY SCHOOL
21 CRESCENT STREET
WHITINSVILLE, MA 01588

60% CONSTRUCTION DOCUMENTS

REVISION	DATE

DATE: 08/20/2019 SCALE: 1"=20'-0"

SHEET TITLE:
PLANTING PLAN

SHEET #:
L3.20