

#### **DEMOLITION NOTES**

THICKNESS OF 8 INCHES.

- 1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND 1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE 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.
- 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
- 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
- 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 14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED

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:**

- 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 4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES 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. 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. 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.

WORKING DAY.

- 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.
- 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
- 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
- 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.
- 10. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.
- ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.

ALL STOCK PILES SHALL BE PROTECTED AND LOCATED WITHIN THE LIMIT OF WORK

- 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. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS
- DIRECTED BY THE PERMITTING AUTHORITY OR OWNER. STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGE 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. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

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

EARTH MOVING AND GRADING NOTES

SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS PLAN, 15 WALNUT PARK, NEWTON MASSACHUSETTS 02458", PREPARED BY NITSCH ENGINEERING., DATED APRIL,

**GENERAL NOTES** 

- 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.
- 3. 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. 4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL
- LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. 5. 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. DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
- 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.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
- 8. 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.
- IMMEDIATELY. 10. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND
- VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
- 13. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

### **UTILITY NOTES:**

- 1. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS 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 4. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE
- 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. CONSULTANTS. 9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF 6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM
- OTHERWISE NOTED. SEVEN FEET COVER FROM THE FINAL DESIGN GRADES. 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.
- WALL TO FACE OF WALL.
- 14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE 10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
- 15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE 11. ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED. 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 13. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT. TO OWNER.
- 17. GRADING SHOWN FOR INFORMATION ONLY SEE LANDSCAPE ARCHITECT'S GRADING PLAN FOR GRADING.
- 18. GRADING FOR ATHLETIC FIELDS SHOWN FOR INFORMATION ONLY SEE LANDSCAPE ARCHITECT'S GRADING PLAN

- PERMITS BY. THE LOCAL MUNICIPALITY, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK
- 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.
- 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
- GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES. ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS
  - INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF
  - 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
- 13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF 9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.

WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.

- SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
- 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.

### PROPOSED LEGEND

<del>-</del>		LIMIT OF WORK
· •	-//-//	EXISTING UTILITY TO BE ABANDONED REMOVED AND DISPOSED IF IN CONI WITH NEW SITE IMPROVEMENTS, OR INDICATED ON DRAWINGS
<u>-</u> 3	<del></del>	- EROSION CONTROL BARRIER
3	— x —— x —	- CONSTRUCTION FENCE

——— W ——— DOMESTIC WATER PIPE

FIRE PROTECTION PIPE SANITARY SEWER PIPE ----D---- STORM DRAIN PIPE GAS PIPE ELECTRIC DUCTBANK T/C TELECOM DUCTBANK -----CW----- CHILLED WATER PIPE 

FUTURE UTILITY, SHOWN FOR

INFORMATION ONLY

AREA DRAIN

ACCESS BASIN

DRAIN MANHOLE

SEWER MANHOLE

STEAM MANHOLE

TELECOM MANHOLE

ELECTRIC MANHOLE

CHILLED WATER VALVE

WATER VALVE

FIRE HYDRANT

INLET PROTECTION

**ELEVATION CONTOURS** 

HOT WATER PIPE/RETURN REUSE WATER PIPE GREY WATER PIPE

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----- MATCH LINE

----- CENTERLINE

- ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS

- 9. 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
- APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. 11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL
- 12. ELEVATIONS REFER TO NAVD 88.

#### PERF PERFORATED WATER QUALITY STRUCTURE PVC POLYVINYL CHLORIDE PIPE R&D REMOVE AND DISPOSE DOUBLE CATCH BASIN RD ROOF DRAIN WATER QUALITY INLET

R&S REMOVE AND STOCKPILE RIM RIM ELEVATION

ABBREVIATIONS

BC BOTTOM OF CURB ELEVATION

BW BOTTOM OF WALL ELEVATION

CPP CORRUGATED POLYETHYLENE PIPE

DI DUCTILE IRON PIPE CEMENT LINED

AB ACCESS BASIN

AD AREA DRAIN

CB CATCH BASIN

CI CAST IRON

CL CENTER LINE

CO CLEANOUT

CCB CAPE COD BERM

CJ CONTROL JOINT

COP CENTER OF PIPE

DCB DOUBLE CATCH BASIN

CP CARRIER PIPE

DMH DRAIN MANHOLE

EHH ELECTRIC HANDHOLE

EJ EXPANSION JOINT

EMH ELECTRIC MANHOLE

HP HIGH POINT

HYD FIRE HYDRANT

LF LINEAR FEET

LOW LIMIT OF WORK

LP LOW POINT

LW LAB WASTE

OC ON CENTER

INV INVERT ELEVATION

M&P MAINTAIN AND PROTECT

OCS OUTLET CONTROL STRUCTURE

NIC NOT IN CONTRACT

PD PERIMETER DRAIN

FD FOUNDATION DRAIN

FFE FINISHED FLOOR ELEVATION

- SMH SEWER MANHOLE SS SEWER SERVICE
- TC TOP OF CURB ELEVATION TW TOP OF WALL ELEVATION
- THH TELECOM HANDHOLE TMH TELECOM MANHOLE TOP TOP OF PIPE
- TOD TOP OF DUCT BANK TYP TYPICAL
- UD UNDERDRAIN USD UNDERSLAB DRAIN

WV WATER VALVE

VGC VERTICAL GRANITE CURB WQI WATER QUALITY INLET WQS WATER QUALITY STRUCTURE

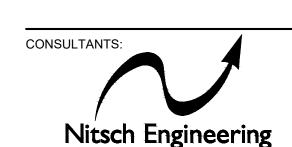
ARCHITECT:

### ARROWSTREET ARCHITECTURE & DESIGN

PUBLIC SCHOOL

10 POST OFFICE SQUARE SUITE 700N BOSTON MA 02109 617.623.5555

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PROJECT INFORMATION:

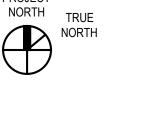
# Lincoln-Eliot **Elementary**

150 Jackson Road, Newton, MA

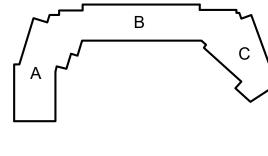
ISSUANCE:

SITE PLAN

**REVISIONS:** 

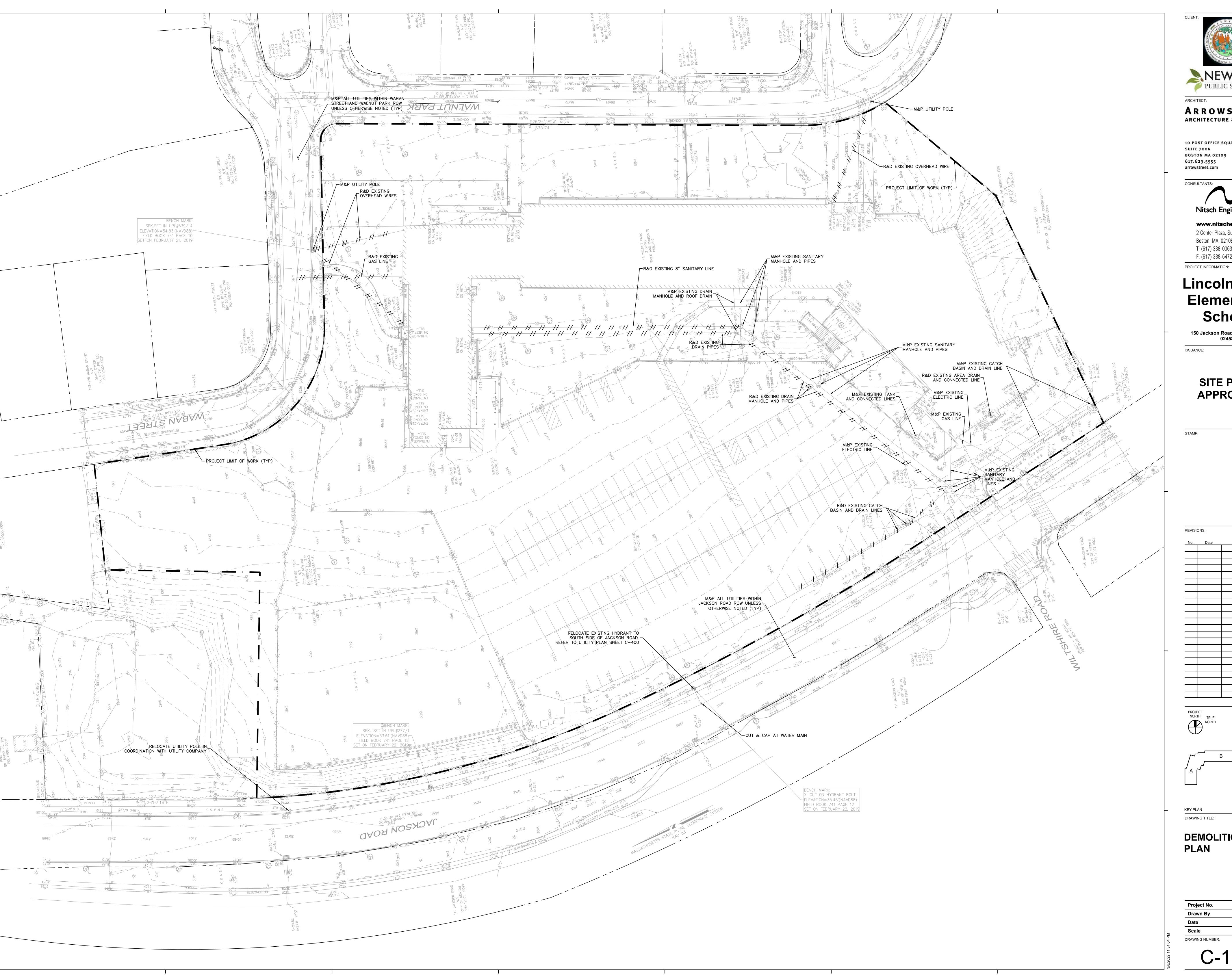


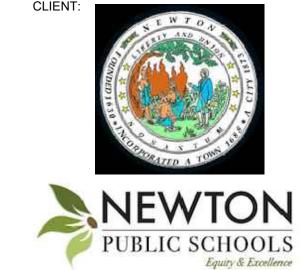
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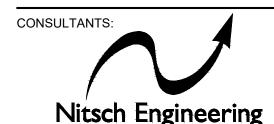
NOTES, LEGENDS, **& ABBREVIATIONS** 

Drawn By 05/03/2022 DRAWING NUMBER:





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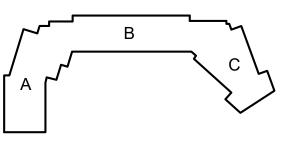
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# Lincoln-Eliot Elementary School

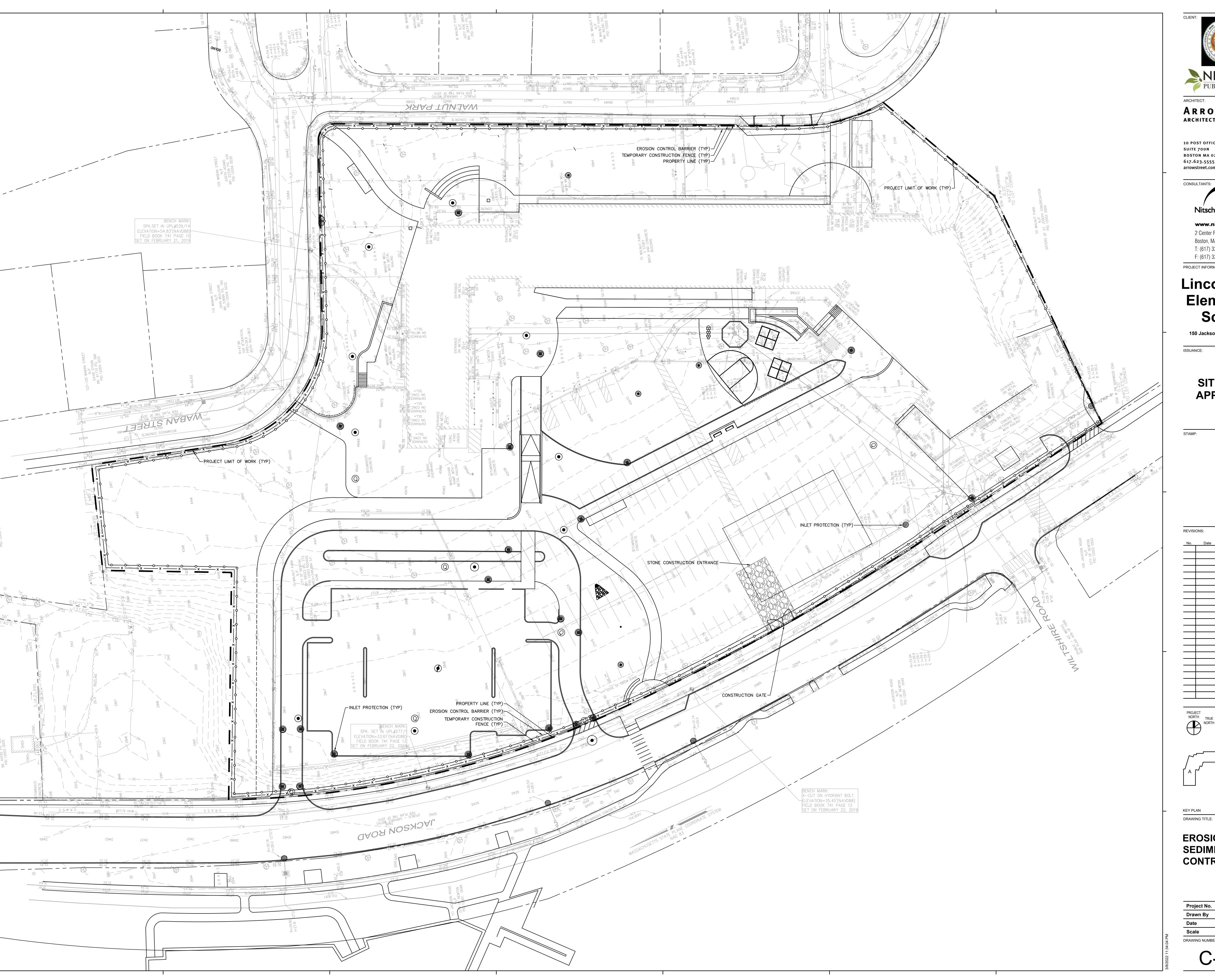
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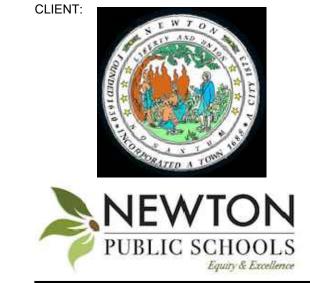
SITE PLAN **APPROVAL** 



**DEMOLITION** 

BSR 05/03/2022 **Drawn By** AS NOTED DRAWING NUMBER:





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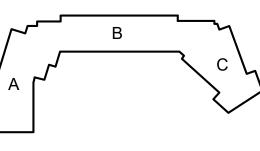
2 Center Plaza, Suite 430 Boston, MA 02108 T: (617) 338-0063 F: (617) 338-6472 PROJECT INFORMATION:

# Lincoln-Eliot Elementary School

150 Jackson Road, Newton, MA 02458

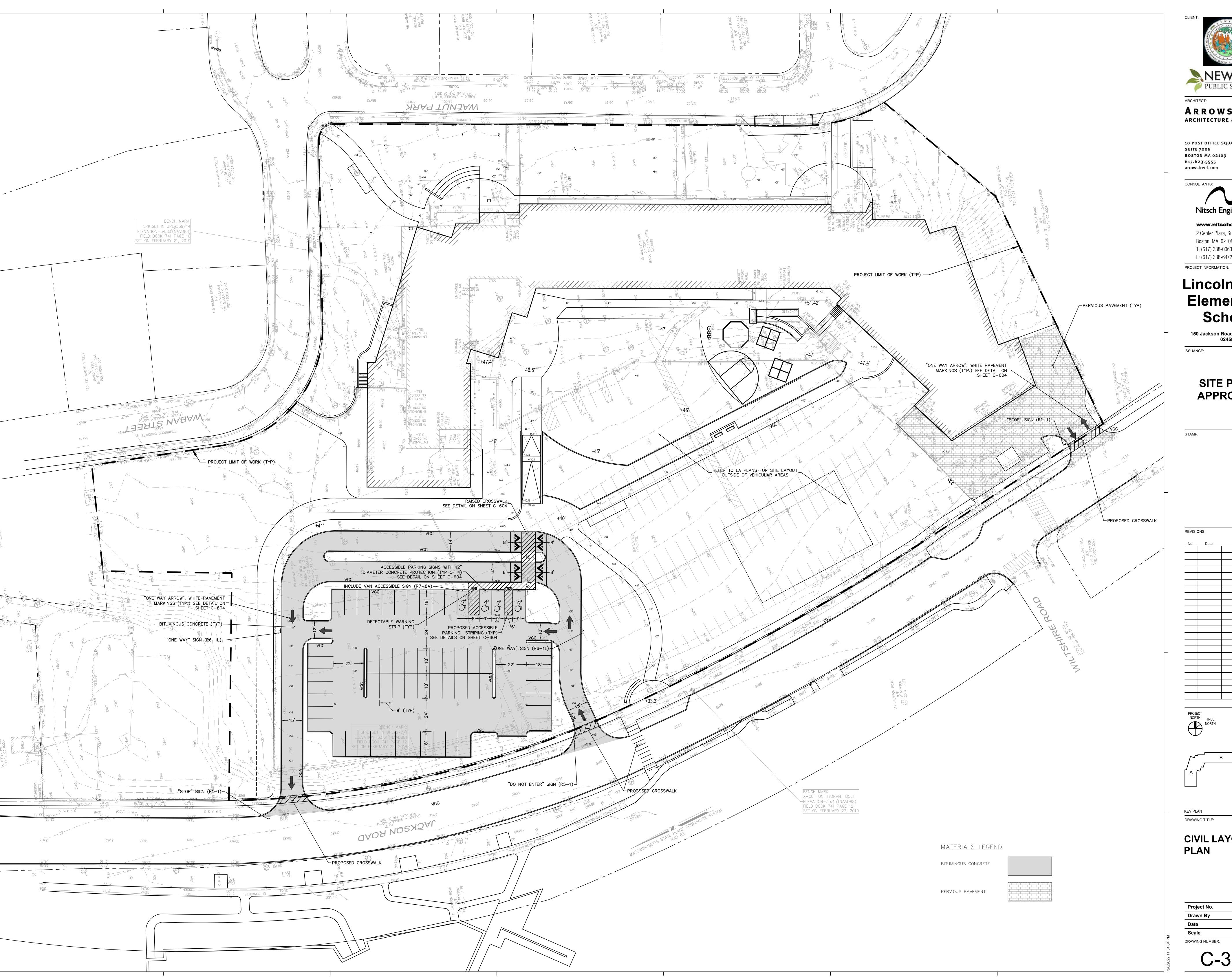
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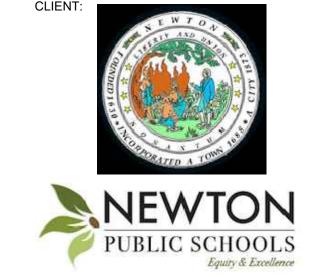
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**EROSION AND** SEDIMENTATION **CONTROL PLAN** 

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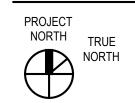
# Lincoln-Eliot **Elementary** School

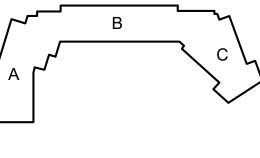
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ISSUANCE:

### SITE PLAN **APPROVAL**

**REVISIONS:** 

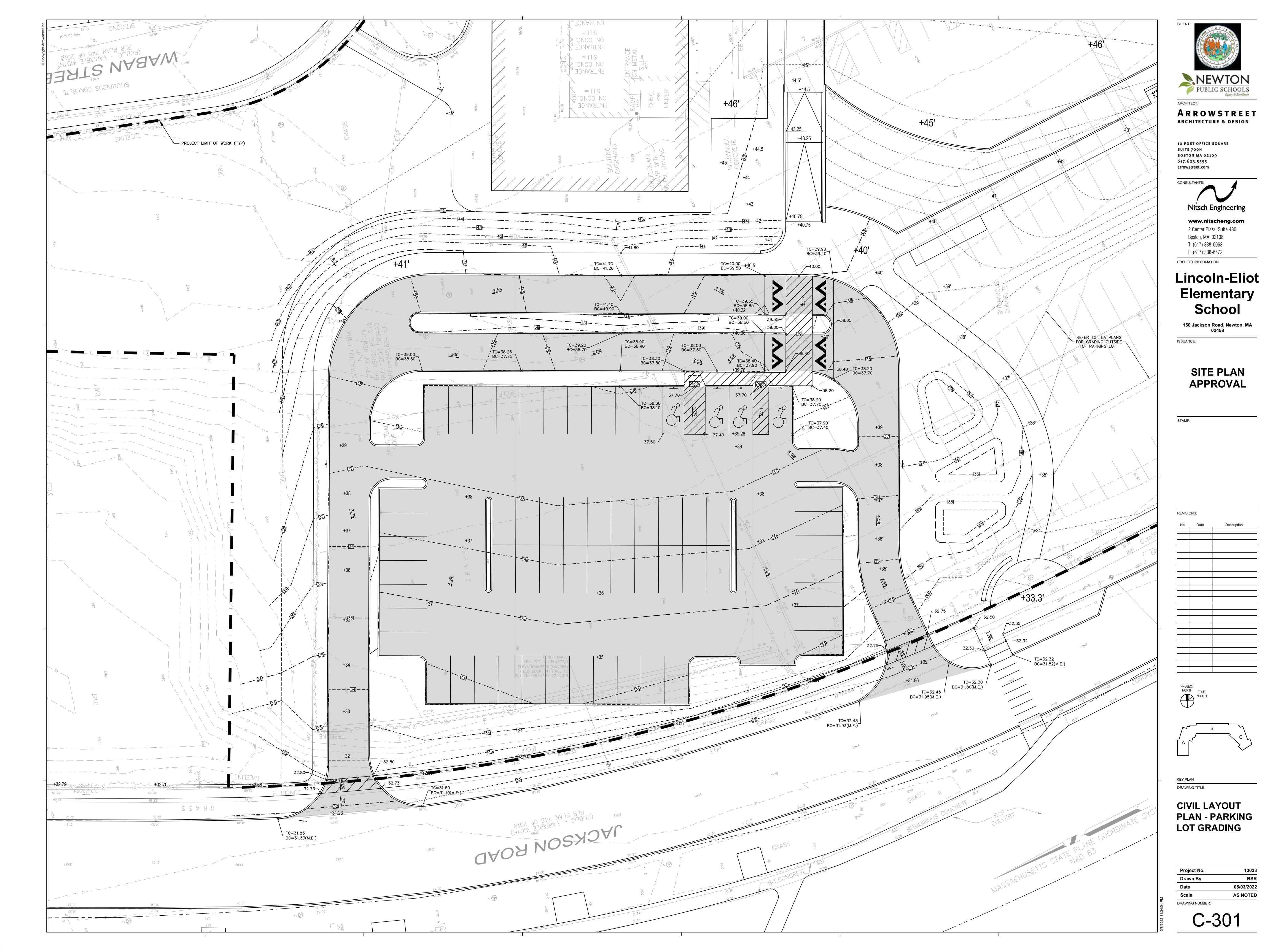




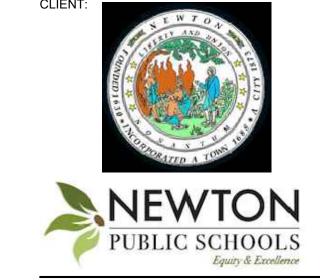
DRAWING TITLE:

**CIVIL LAYOUT PLAN** 

	Project No.	13033
	Drawn By	BSR
	Date	05/03/2022
-	Scale	AS NOTED
• •	DRAWING NUMBER:	







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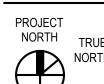
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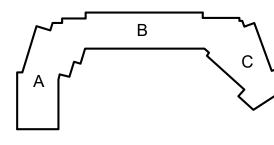
2 Center Plaza, Suite 430 Boston, MA 02108 T: (617) 338-0063 F: (617) 338-6472 PROJECT INFORMATION:

# Lincoln-Eliot **Elementary** School

150 Jackson Road, Newton, MA 02458

### SITE PLAN **APPROVAL**

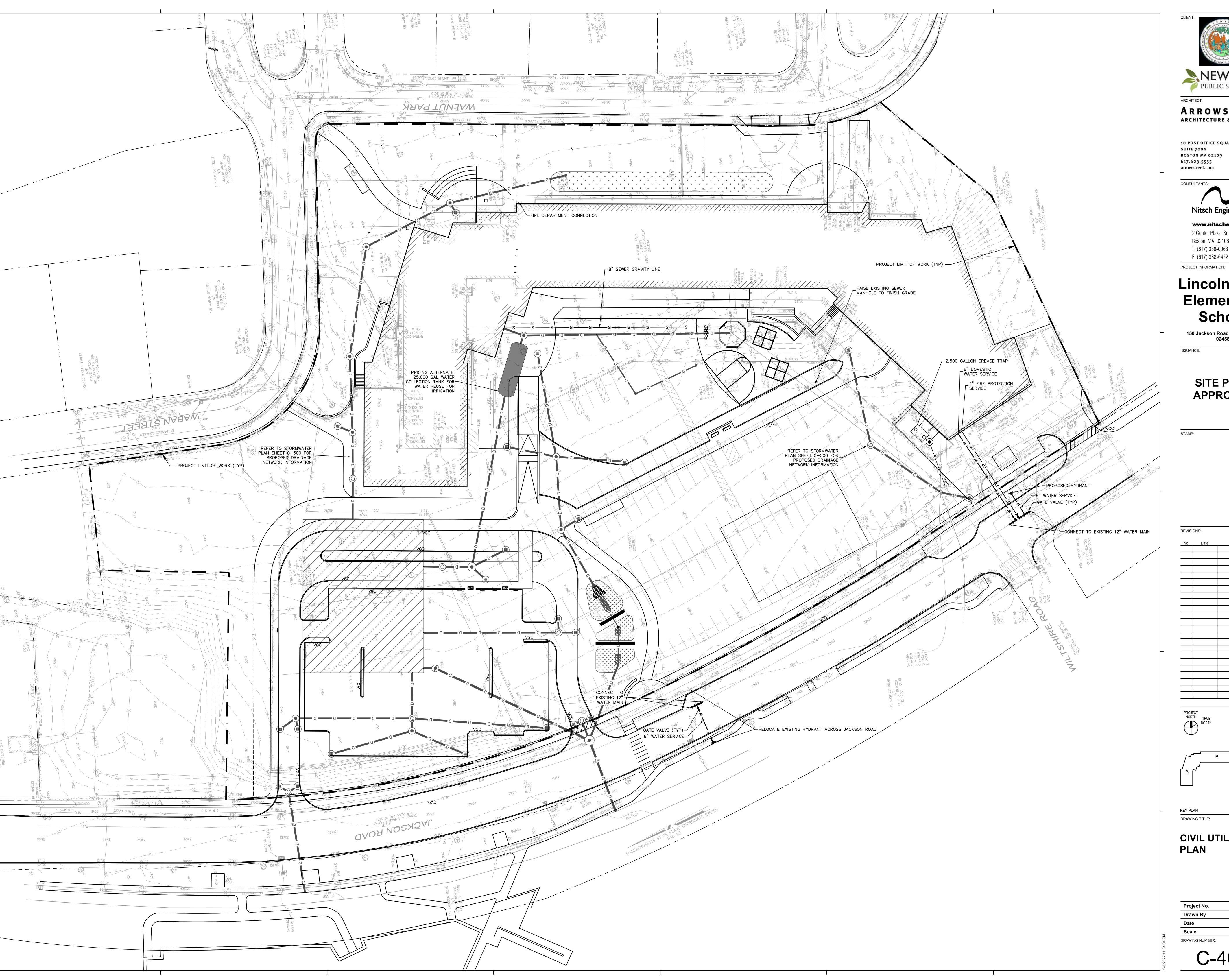


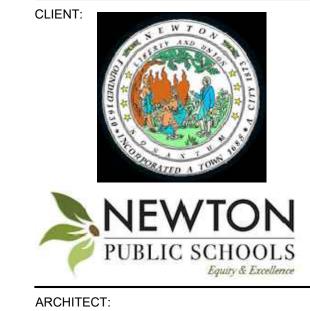


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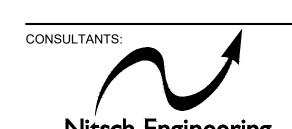
CIVIL LAYOUT PLAN - LOADING **BAY GRADING** 

13033
BSR
05/03/2022
AS NOTED





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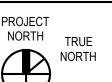
# Lincoln-Eliot Elementary School

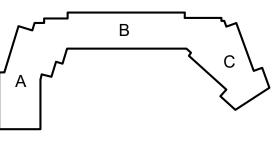
150 Jackson Road, Newton, MA 02458

ISSUANCE:

### SITE PLAN **APPROVAL**

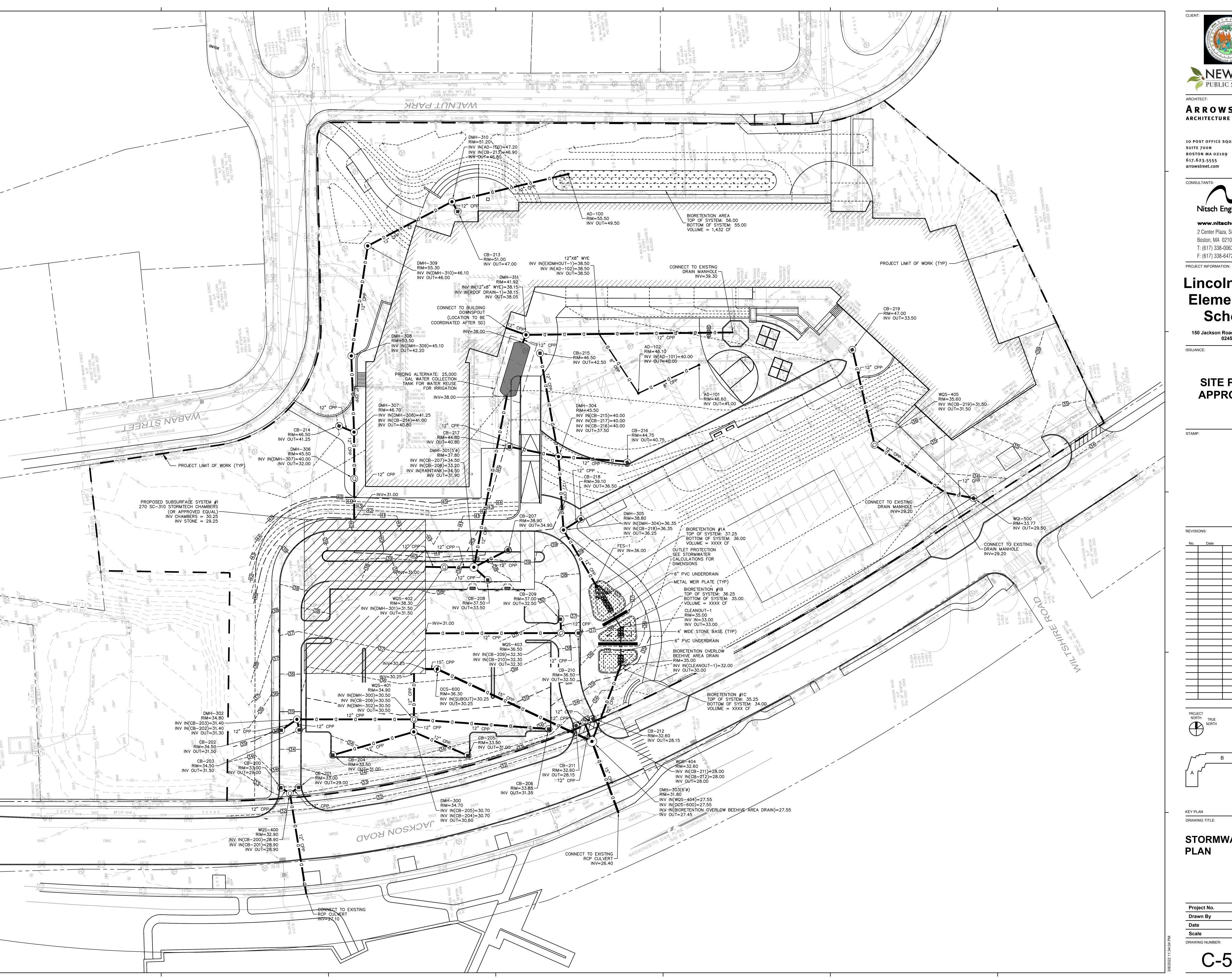
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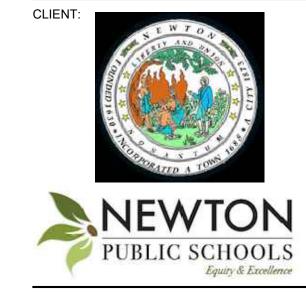




**CIVIL UTILITY** PLAN

Project No.	13033
Drawn By	BSR
Date	05/03/2022
Scale	AS NOTED





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## Lincoln-Eliot **Elementary** School

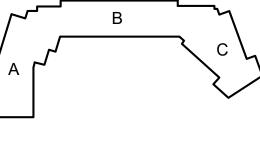
150 Jackson Road, Newton, MA

ISSUANCE:

### SITE PLAN **APPROVAL**

**REVISIONS:** 

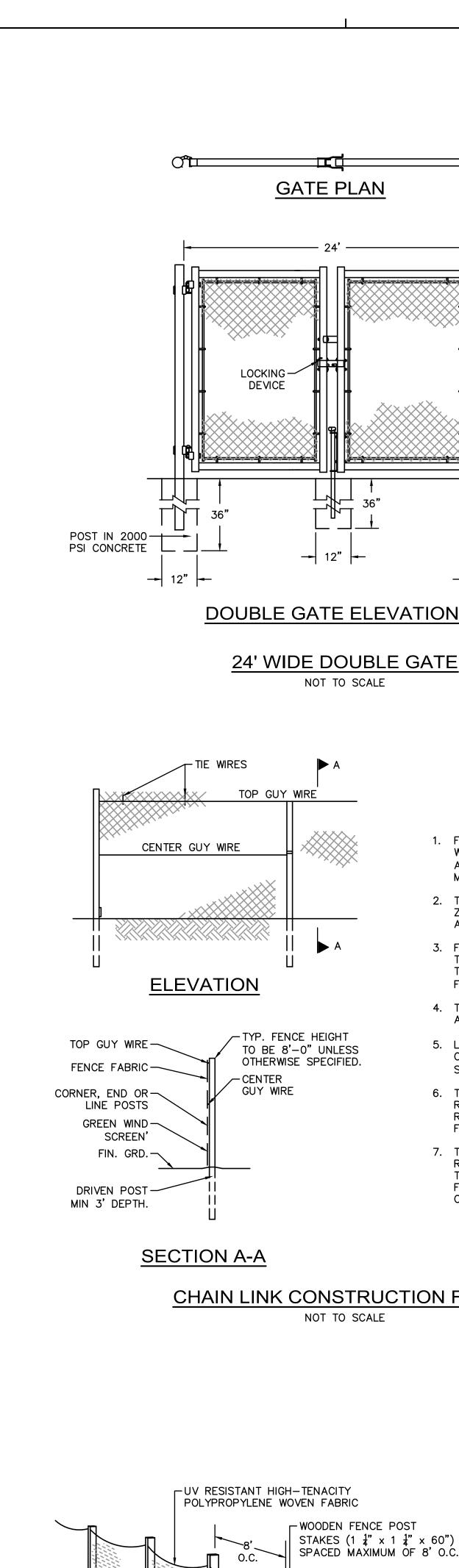
NORTH TRUE NORTH



KEY PLAN DRAWING TITLE:

**STORMWATER PLAN** 

Project No. Drawn By 05/03/2022 **AS NOTED** Scale DRAWING NUMBER:



MAINTAIN 5' SEDIMENTATION -

NOTE: NOT FOR

**FLOWS** 

WORK AREA

CONCENTRATED

STORAGE ZONE FOR SLOPES WORK

GREATER THAN 4:1 AREA

EMBED FILTER

**FABRIC** 

MIN. 6" INTO

GROUND

UV RESISTANT

HIGH-TENACITY

POLYPROPYLENE

SHEET FLOW

EMBED FILTER FABRIC

MIN. 6" INTO

GROUND

WOVEN FABRIC

PERSPECTIVE VIEW

**SECTION** 

PERIMETER PROTECTION BARRIER (A)



AREA

GROUND

- WOODEN FENCE POST STAKES

OF 8' 0.C.

 $(1 \frac{1}{4}" \times 1 \frac{1}{4}" \times 60")$  SPACED MAXIMUM

PROTECTED

AREA

CONSTRUCTION FENCE

AND GATE NOTES

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

5. LINE POSTS SHALL BE 21/2"

O.D. END OR CORNER POSTS

RESPONSIBLE FOR SURFACE

RESTORATION ONCE THE

REMOVE AND DISPOSE OF THE

TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION

> STAKED WATTLES

NOTE: NOT FOR CONCENTRATED FLOWS

UV RESISTANT HIGH-TENACITY-

POLYPROPYLENE WOVEN FABRIC

CONTINUOUSLY WITH TWO

1" x 1" x 36" WOODEN

SHEET FLOW

STAKES 4' MAX O.C.

EMBED FILTER

**FABRIC** 

MIN. 6" INTO GROUND

STAKE WATTLES

TYPES OF WATTLES

• COIR (COCONUT FIBER)

WORK AREA

COMPÔST

STRAW

FLOW

A GREEN WIND SCREEN

SHALL BE 3" O.D.

6. THE CONTRACTOR

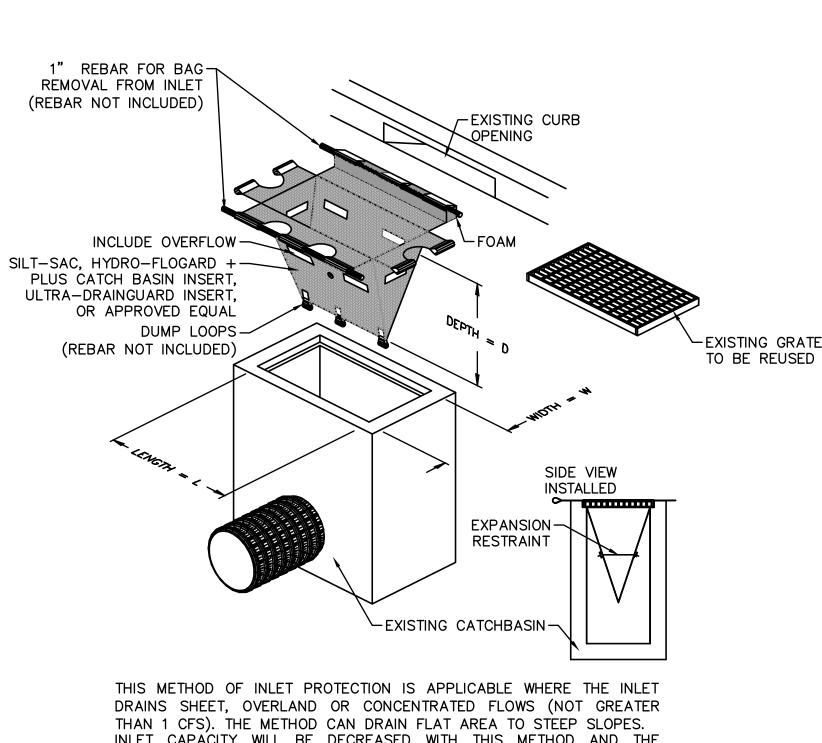
FENCE IS REMOVED.

OF THE PROJECT.

7. THE CONTRACTOR SHALL

FABRIC SHALL BE 0.148"

APPROXIMATELY 2" DIAMOND



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 (2) CATCH BASIN W/ SILTATION SACK NOT TO SCALE

**GATE PLAN** 

LOCKING -

DEVICE

PSI CONCRETE

-UV RESISTANT HIGH-TENACITY

EMBED FILTER

**FABRIC** 

MIN. 6" INTO

GROUND

PERSPECTIVE VIEW

POLYPROPYLENE WOVEN FABRIC

- WOODEN FENCE

 $(1 \frac{1}{4}$ " × 1  $\frac{1}{4}$ " × 60")

PROTECTED

AREA

⊢TOP OF

SPACED MAXIMUM

─ WOODEN FENCE POST

SPACED MAXIMUM

OF 8' 0↓C.

SECTION UNDISTURBED

PERIMETER PROTECTION BARRIER (B)

SILT FENCE DETAIL WITH WATTLES

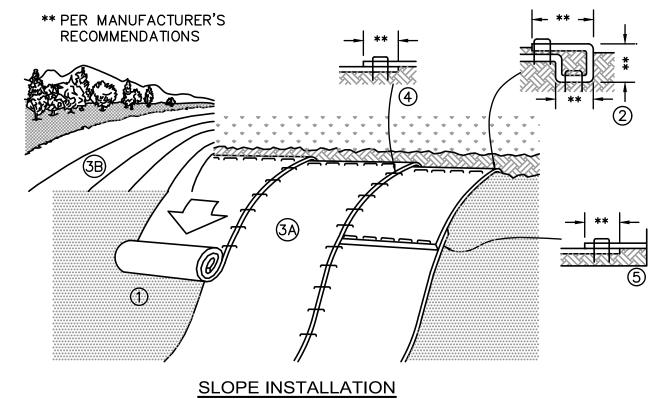
NOT TO SCALE

POST STAKES

SINGLE GATE ELEVATION

12' WIDE EMERGENCY GATE

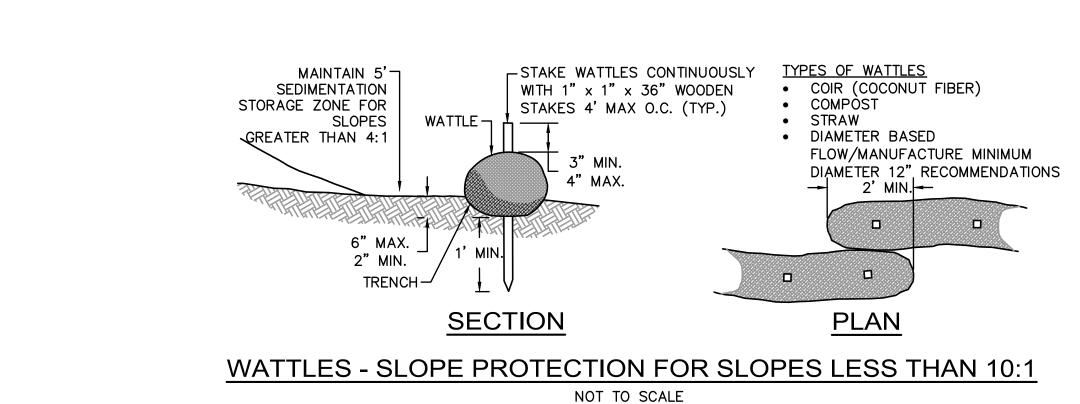
NOT TO SCALE

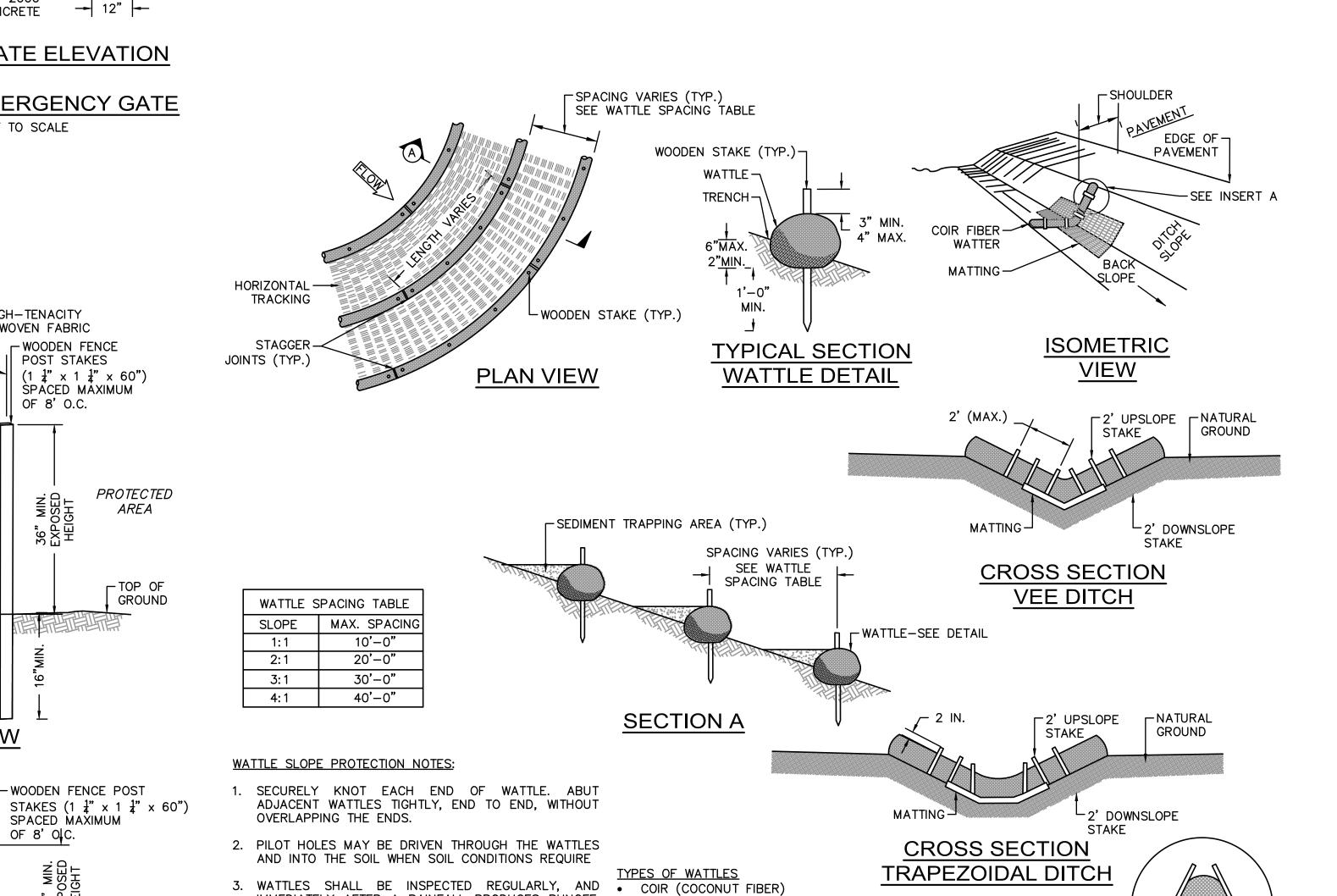


NOTES:

- 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** 





EROSION CONTROL BARRIER (E)
WATTLES - STEEP SLOPE PROTECTION NOT TO SCALE

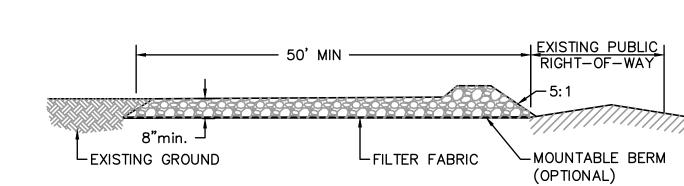
**INSERT A** 

IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, • COMPOST

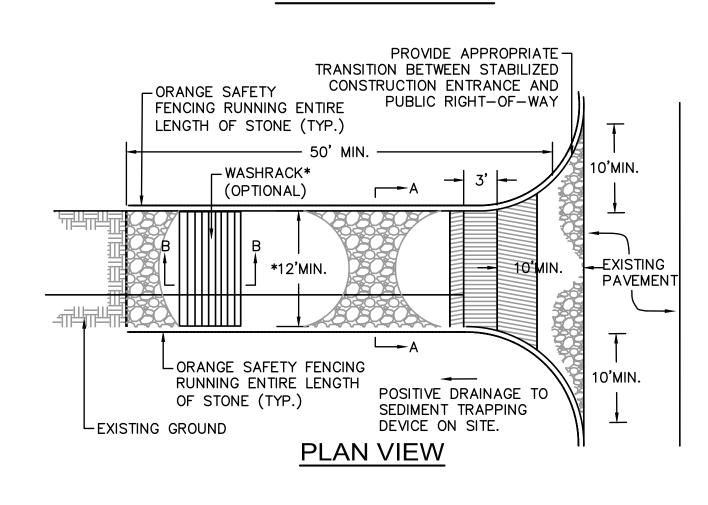
TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED . STRAW AND IN CONTACT WITH THE SOIL.

4. ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR

DITCH SLOPES AND AS DIRECTED.

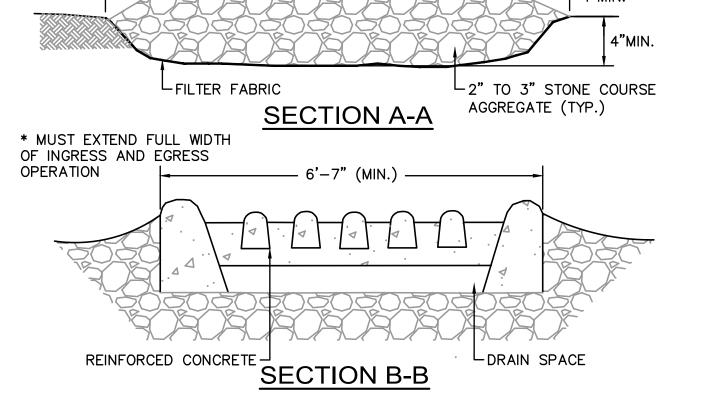


SIDE ELEVATION



12' MIN\* (ONE WAY)

24' MIN\* (TWO WAY)



**CONSTRUCTION SPECIFICATIONS** CONSTRUCTION SPECIFICATIONS

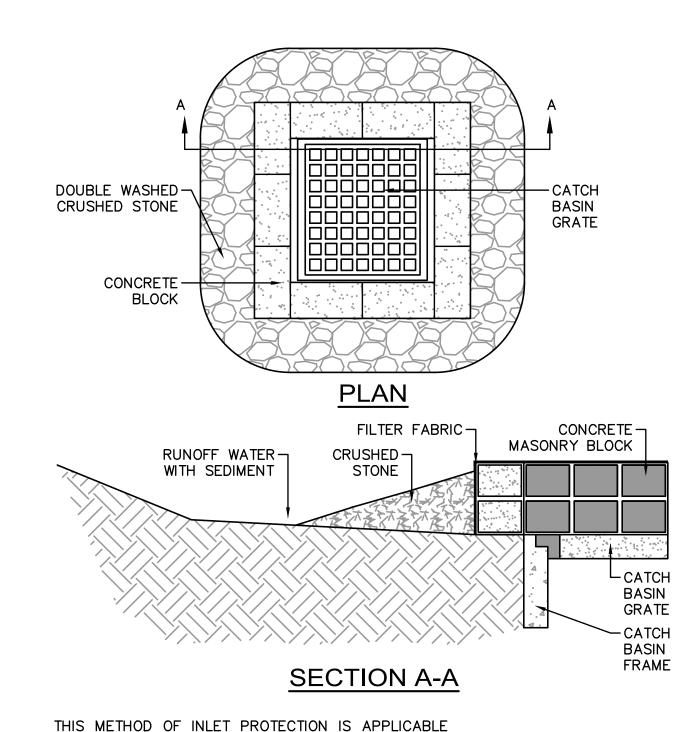
LENGTH - GREATER THAN OR EQUAL TO 50 FEET

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. 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. THICKNESS - 8"

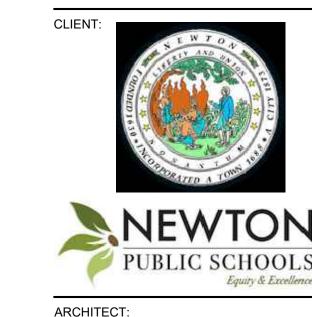
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

### STABILIZED CONSTRUCTION ENTRANCE

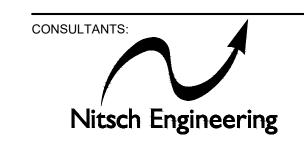


WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE. INLET PROTECTION (3)
CATCH BASIN W/ BLOCK AND GRAVEL



ARROWSTREET ARCHITECTURE & DESIGN

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F: (617) 338-6472 PROJECT INFORMATION:

## Lincoln-Eliot **Elementary** School

150 Jackson Road, Newton, MA

ISSUANCE:

SITE PLAN **APPROVAL** 

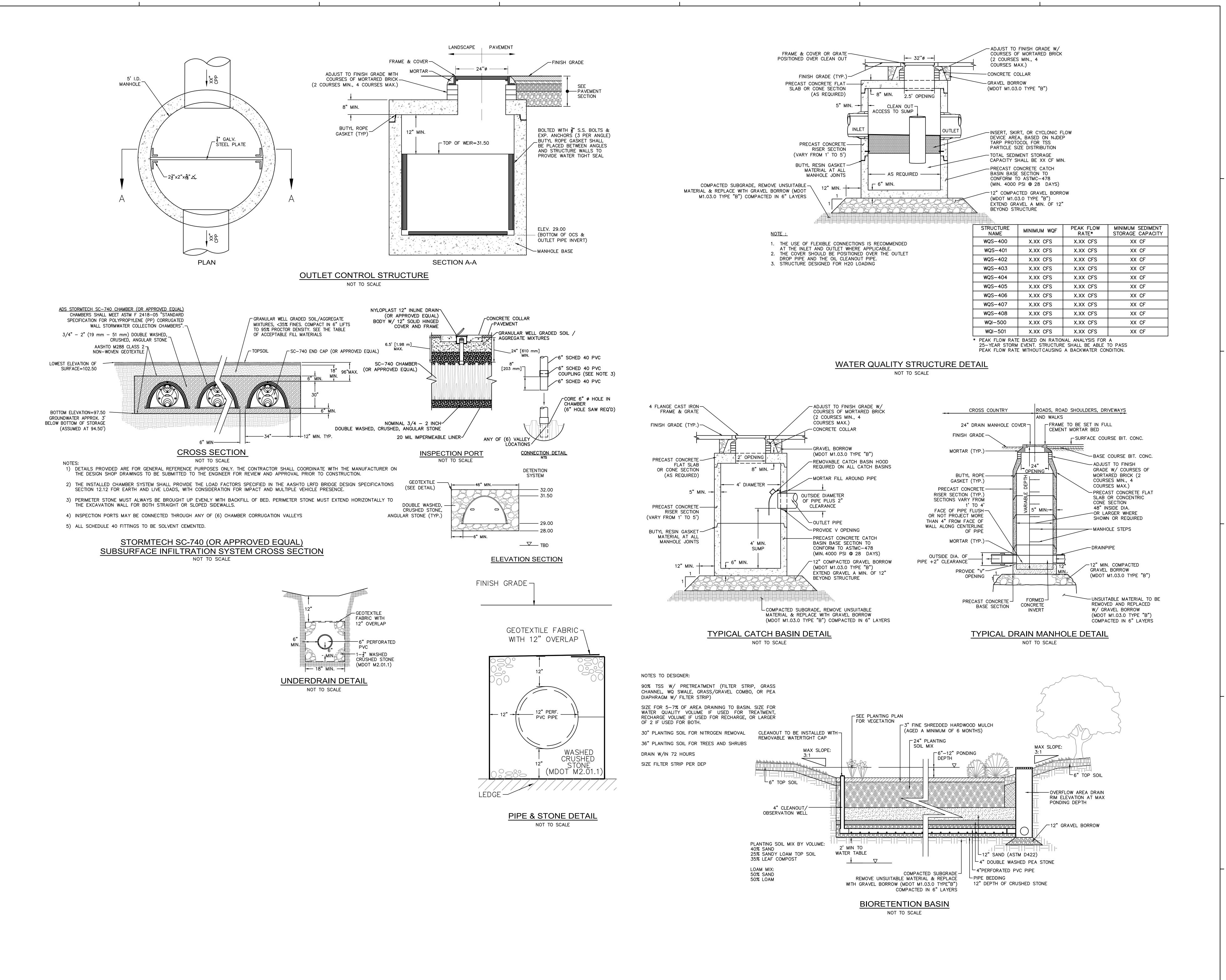
REVISIONS: PROJECT NORTH TRUE NORTH

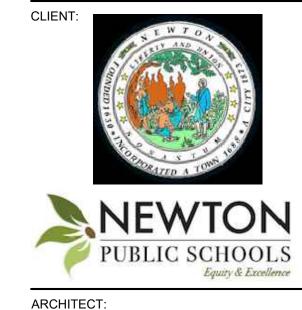
**EROSION** CONTROL **DETAILS** 

KEY PLAN

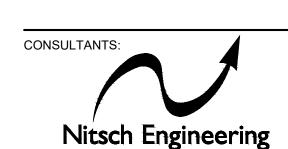
DRAWING TITLE:

Project No. Drawn By 05/03/2022 **AS NOTED** Scale DRAWING NUMBER:





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PROJECT INFORMATION:

## Lincoln-Eliot Elementary School

150 Jackson Road, Newton, MA 02458

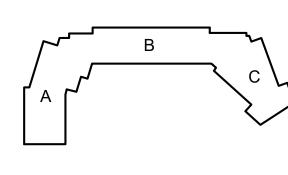
ISSUANCE:

### SITE PLAN APPROVAL

etamp.

No. Date Description

PROJECT NORTH TRUE NORTH



DRAWING TITLE:

KEY PLAN

CIVIL UTILITY
DETAILS I

Project No. 13033

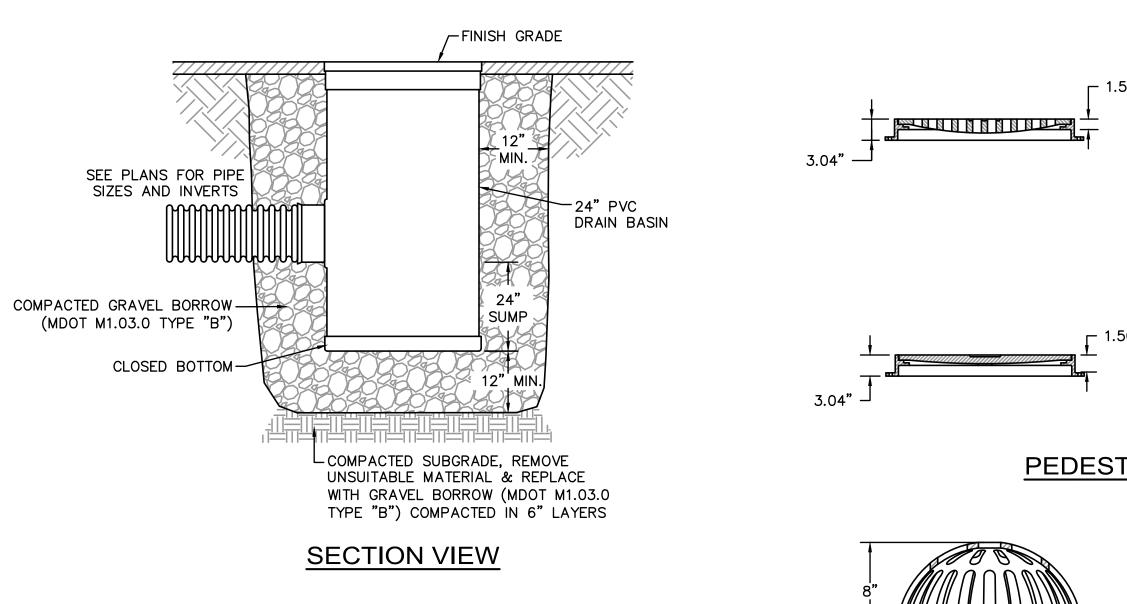
Drawn By BSR

Date 05/03/2022

Scale AS NOTED

DRAWING NUMBER:

C-601



NOTES:

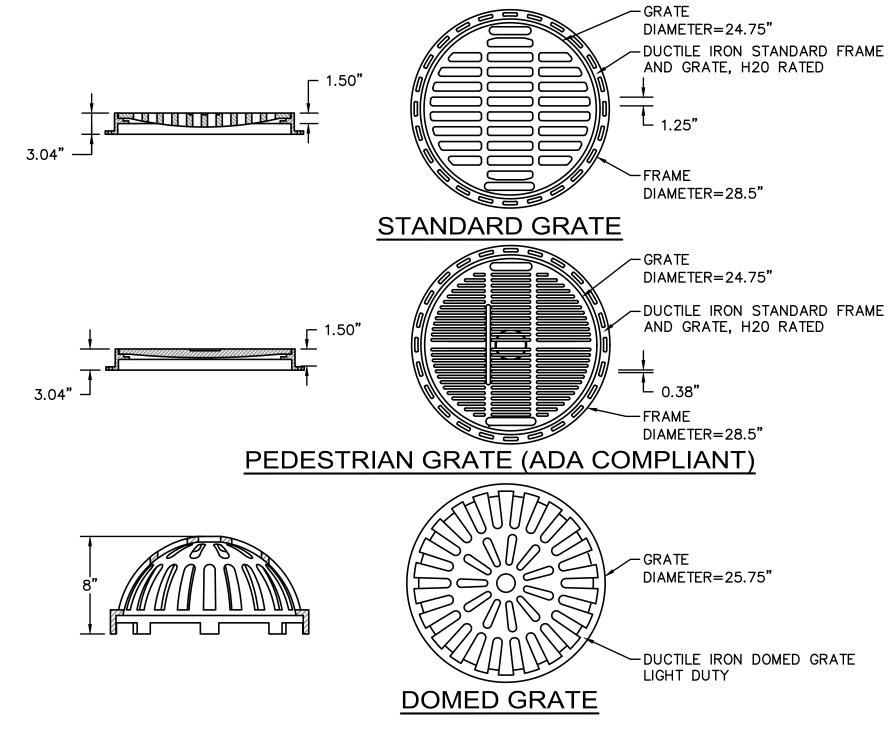
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.

2. 24" AREA DRAINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.

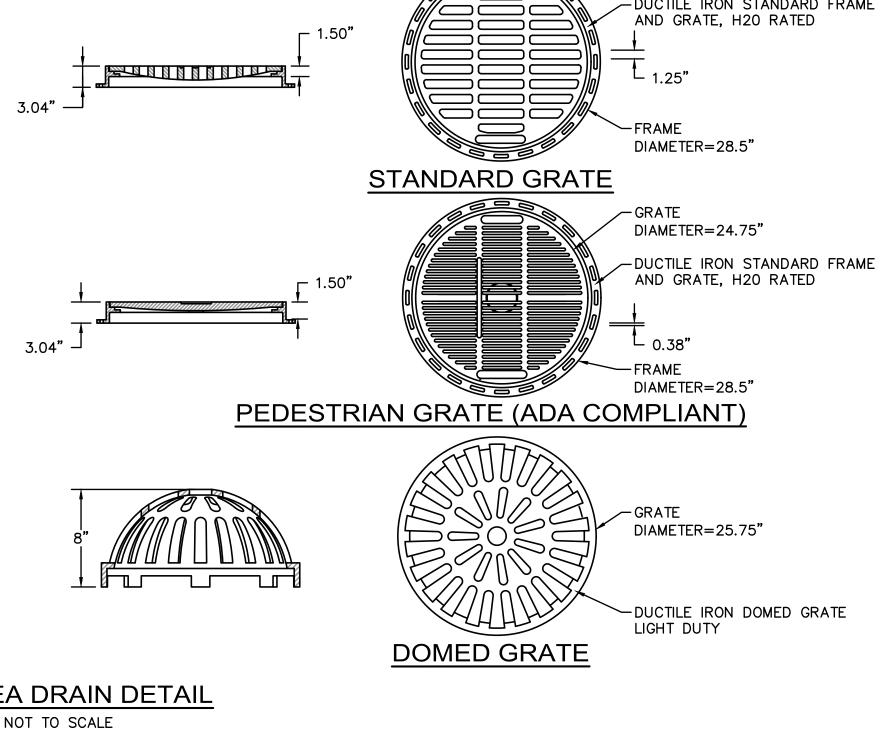
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.

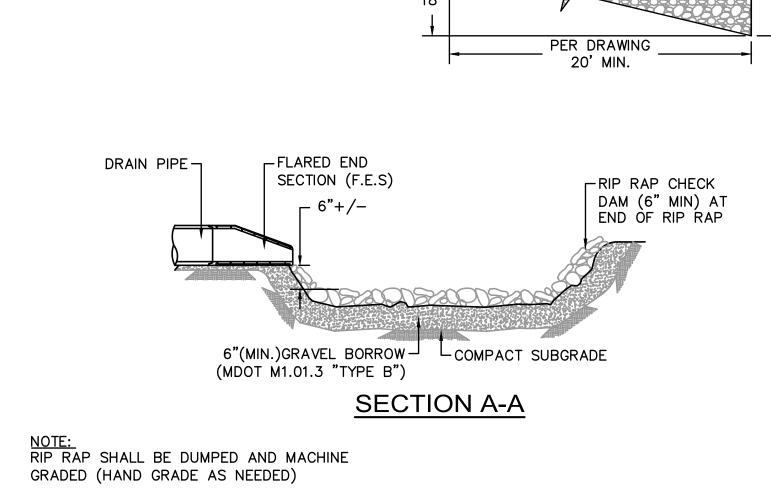
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.

5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.



24" AREA DRAIN DETAIL NOT TO SCALE



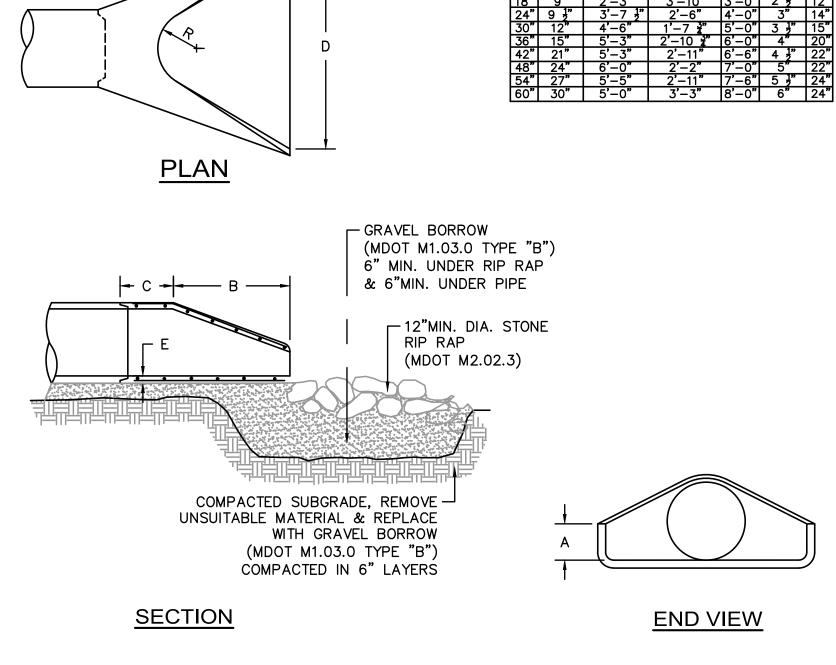


WIDTH OF F.E.S.+36"

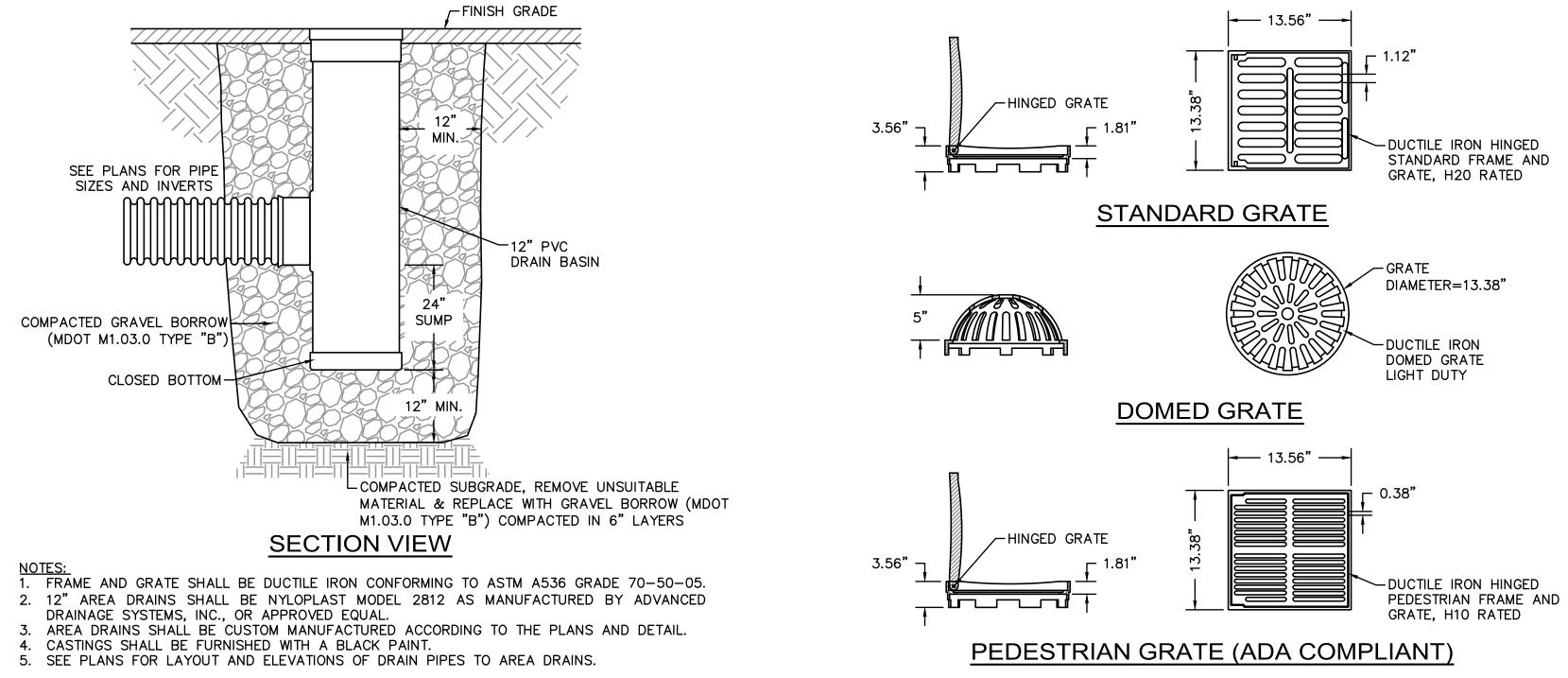
RIP RAP DETAIL NOT TO SCALE

DRAIN PIPE

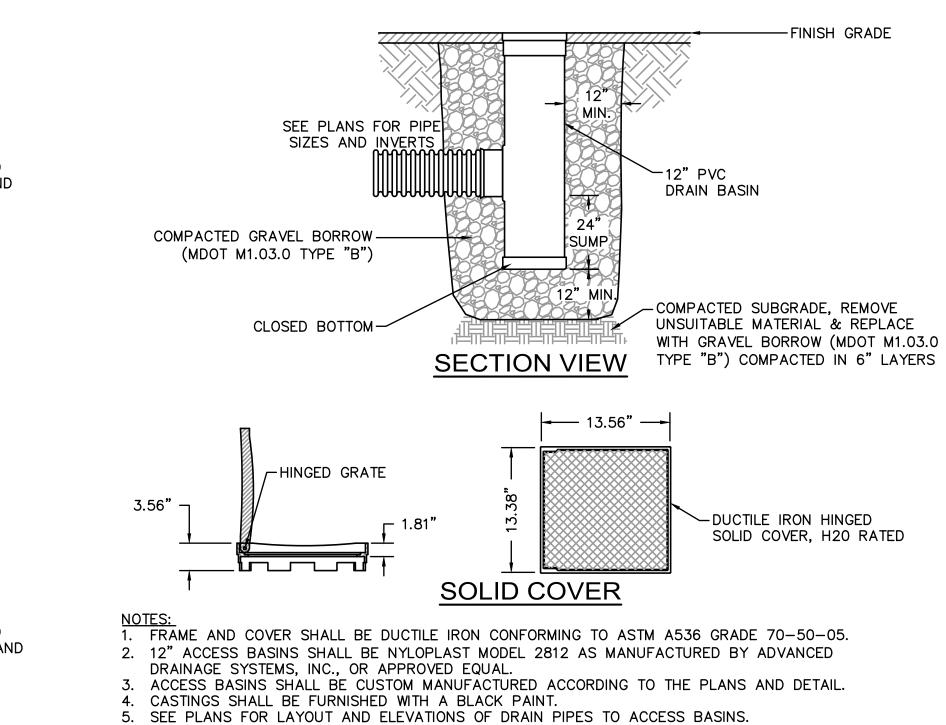
FLARED END — SECTION (F.E.S)



PRECAST CONCRETE FLARED END SECTION NOT TO SCALE

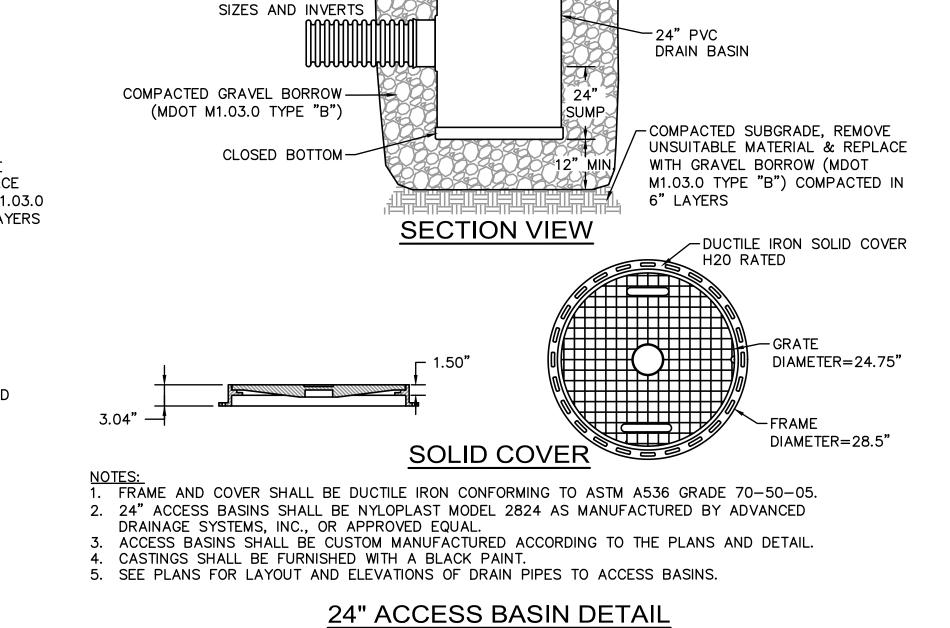


12" AREA DRAIN DETAIL NOT TO SCALE



12" ACCESS BASIN DETAIL

NOT TO SCALE



NOT TO SCALE

SEE PLANS FOR PIPE

**REVISIONS:** PROJECT
NORTH TRUE

PUBLIC SCHOOLS

ARROWSTREET

Nitsch Engineering

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Lincoln-Eliot

**Elementary** 

School

150 Jackson Road, Newton, MA

SITE PLAN

**APPROVAL** 

2 Center Plaza, Suite 430

Boston, MA 02108

T: (617) 338-0063

F: (617) 338-6472

PROJECT INFORMATION:

ISSUANCE:

ARCHITECTURE & DESIGN

10 POST OFFICE SQUARE

BOSTON MA 02109

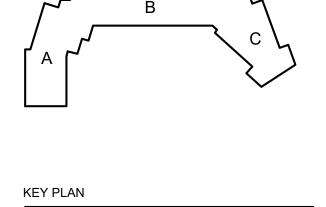
ARCHITECT:

SUITE 700N

617.623.5555

CONSULTANTS:

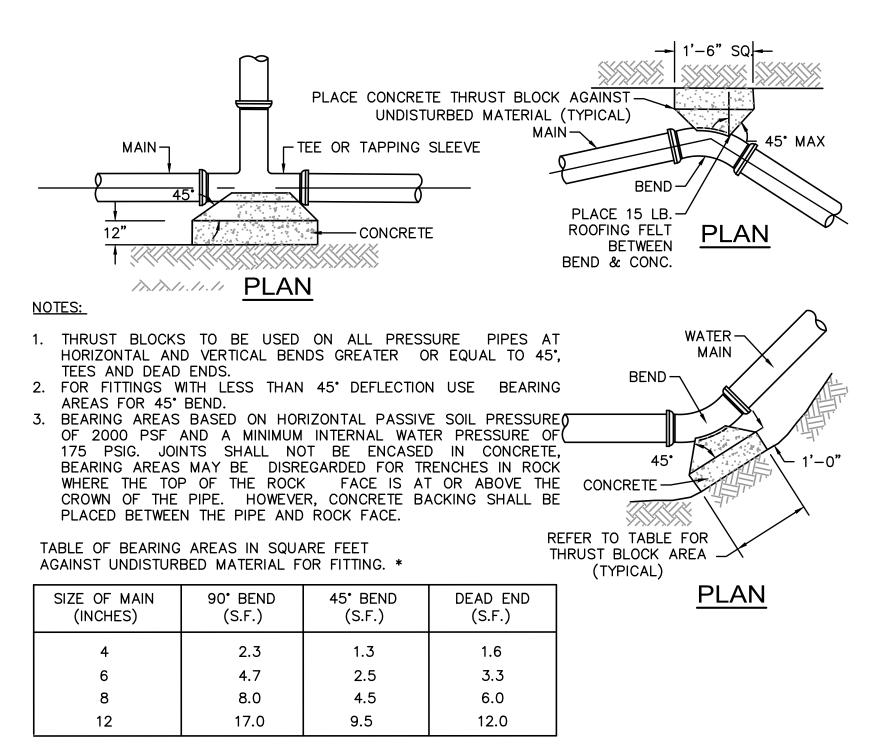
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**CIVIL UTILITY DETAILS II** 

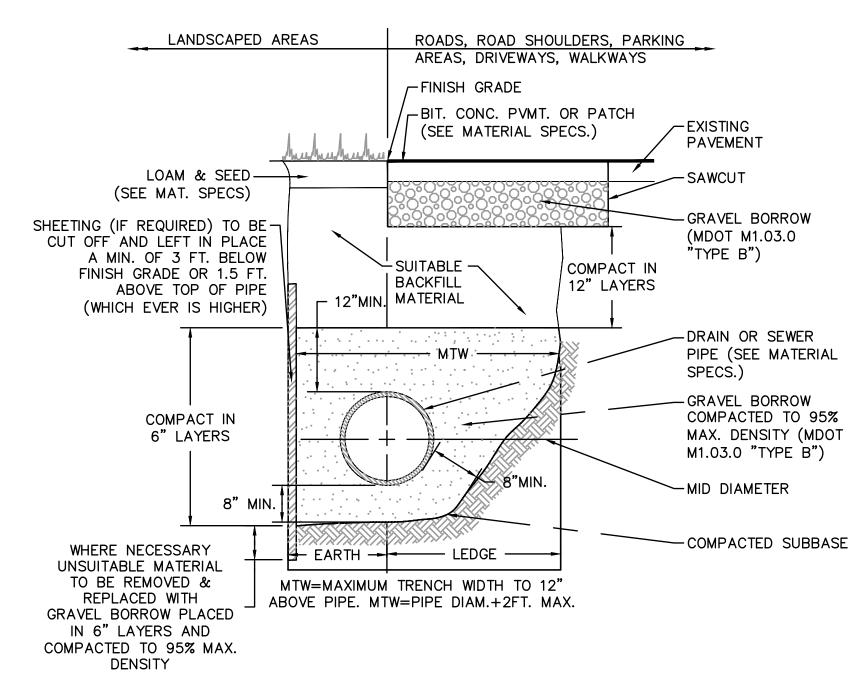
DRAWING TITLE:

Project No.	13033
Drawn By	BSR
Date	05/03/2022
Scale	AS NOTED



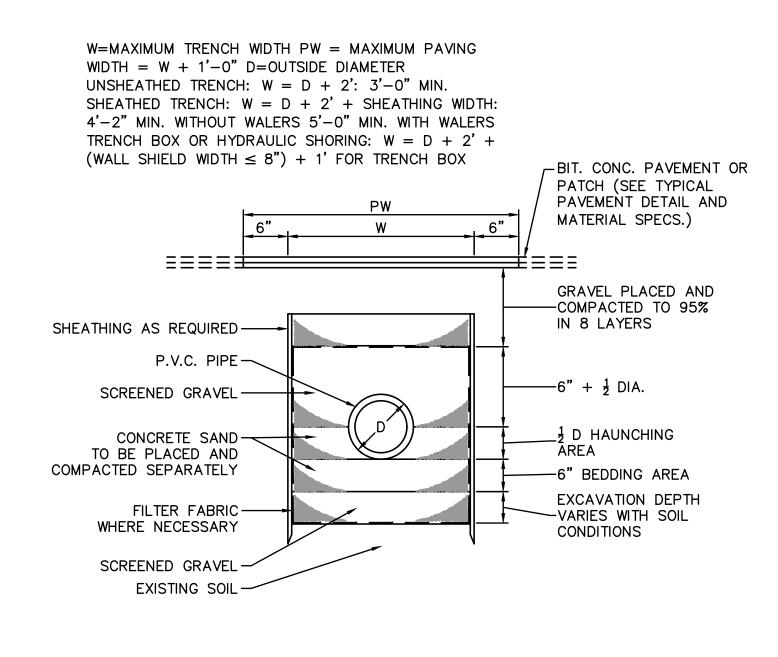
THRUST BLOCK DETAILS

NOT TO SCALE

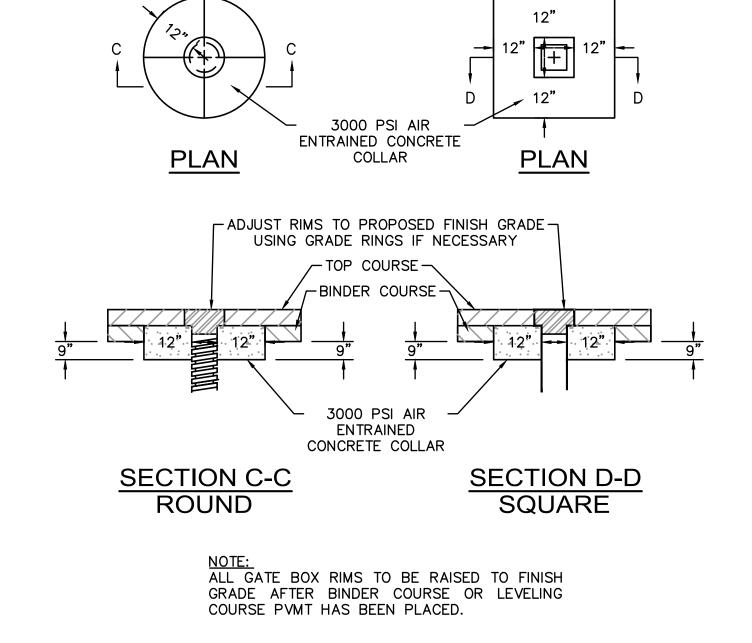


STANDARD TRENCH DETAIL FOR UTILITY PIPE

NOT TO SCALE



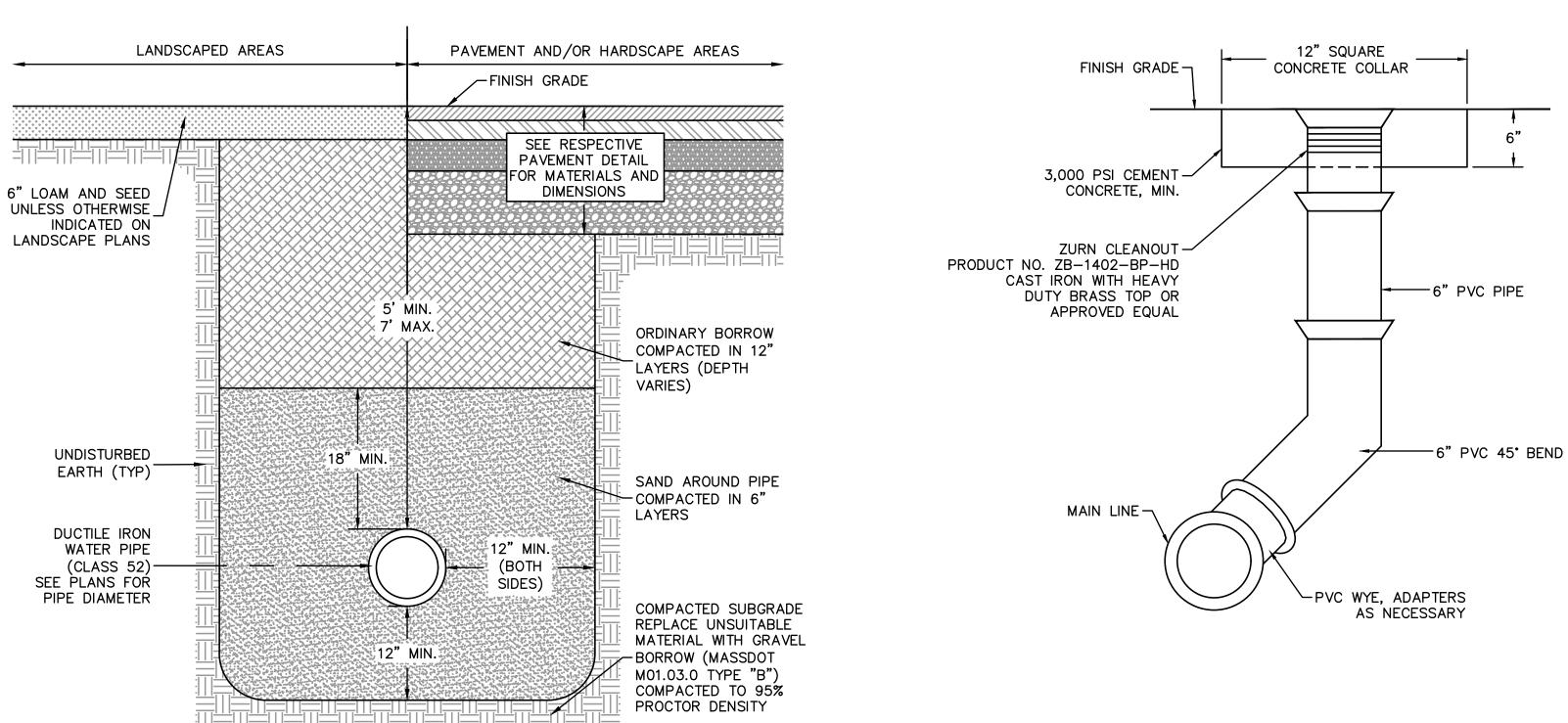
PVC PIPE TRENCH DETAIL NOT TO SCALE



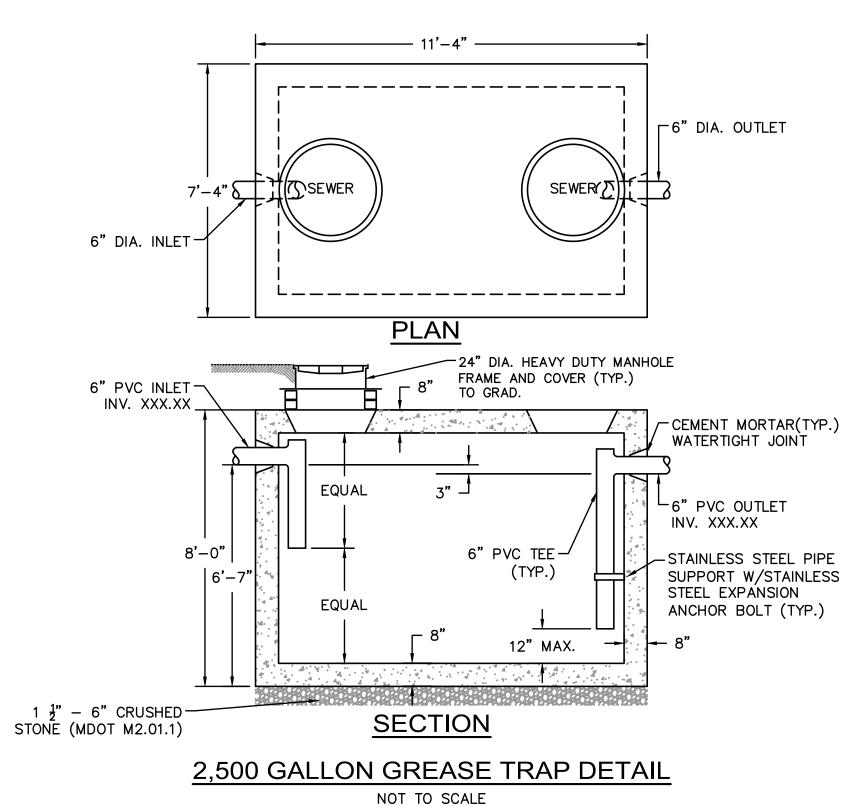
WATER GATE BOX DETAIL

NOT TO SCALE

36"



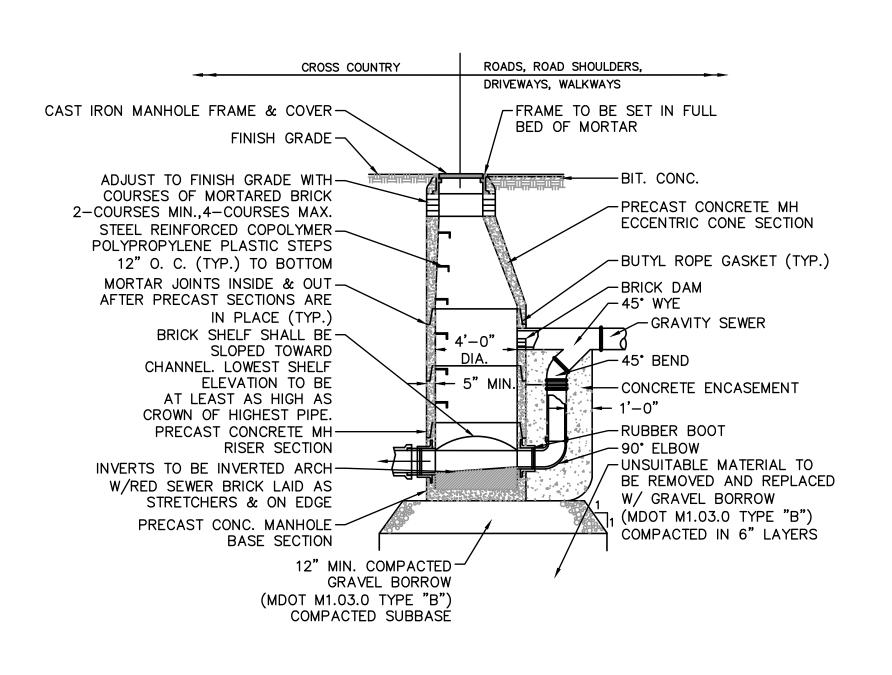
TYPICAL CLEANOUT DETAIL NOT TO SCALE



7'-0" ——— 「 <sup>(</sup> 1. CONCRETE STRENGTH 5,000 PSI AT 29 DAYS. DENSITY 150 PCF. 2. CEMENT, PORTLAND TYPE 1 OR 111 PER ASTM C150-81. ADMIXTURES, AIR & PLASTICIZERS PER ASTM C233-82 4. REINFORCING PER ASTM A615 GRADE 60. 60,000 PSI YIELD. 5. DESIGN LOADING PER AASHTO HS20-44 AND ACI 318-83. 6. CONSTRUCTION JOINTS SEALED WITH 1" DIA. ASPHALT ROPE TAR WHERE APPLICABLE. PLAN |ROADS, ROAD SHOULDERS, DRIVEWAYS CROSS COUNTRY AND WALKS -FRAME TO BE SET IN FULL 36" DIA. MANHOLE COVER-CEMENT MORTAR BED FINISH GRADE-SURFACE COURSE PRECAST CONC. RINGS ADJUST BASE COURSE BIT. CONC. TO FINISH GRADE MASONRY AND GROUT -DUCT BANK OPENING FOUR KNOCKOUTS 18" x 36"-FOUR RECESSED — PULLING EYES كناب ب ب ب بركبان -UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED WITH GRAVEL BORROW (MDOT M1.03.0 12" DIA. SUMF TYPE "B") COMPACTED 12"-¾" CRUSHED STONE-(MDOT M2.02.4) IN 6" LAYERS **ELEVATION** 

**ELECTRICAL MANHOLE DETAIL** 

NOT TO SCALE

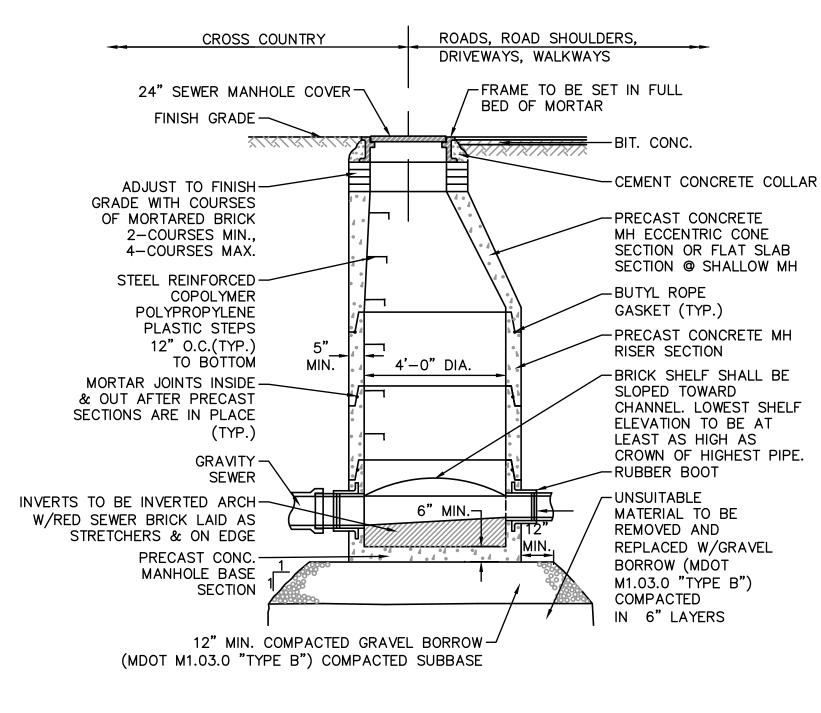


WATER TRENCH DETAIL

NOT TO SCALE

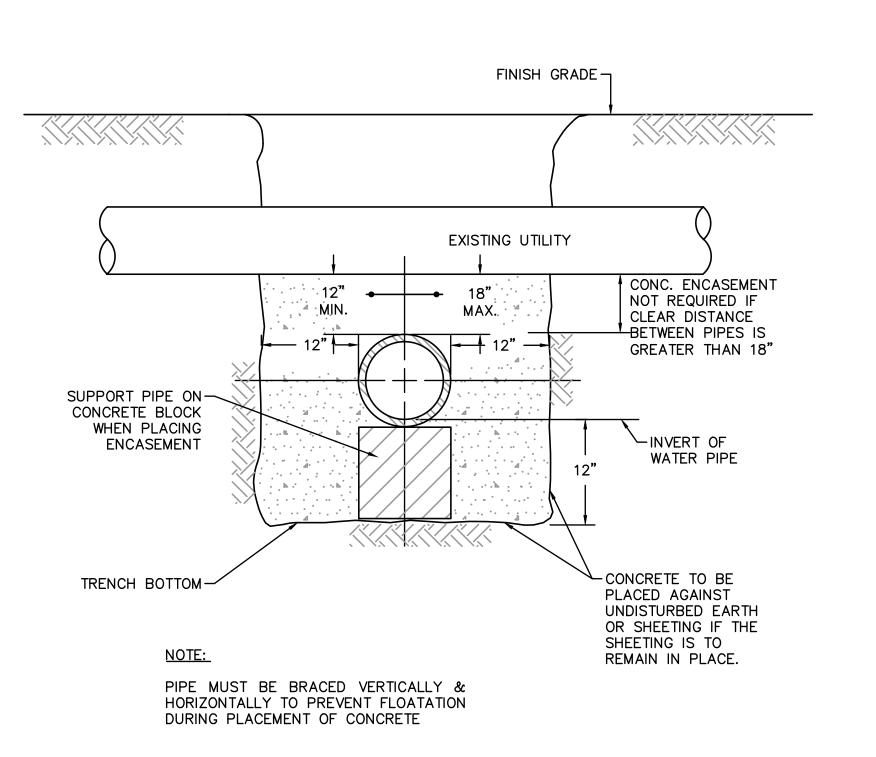
DROP SEWER MANHOLE DETAIL

NOT TO SCALE

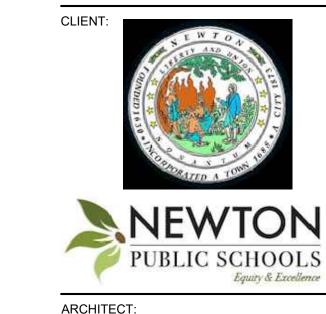


TYPICAL SEWER MANHOLE DETAIL

NOT TO SCALE

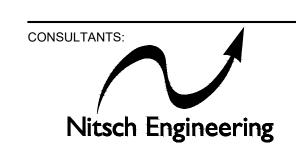


CONCRETE ENCASEMENT DETAIL AT UTILITY CROSSINGS NOT TO SCALE



ARROWSTREET ARCHITECTURE & DESIGN

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F: (617) 338-6472 PROJECT INFORMATION:

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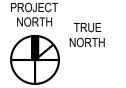
### Lincoln-Eliot **Elementary** School

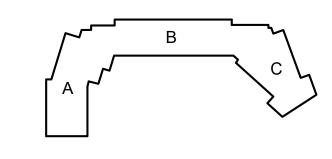
150 Jackson Road, Newton, MA

ISSUANCE:

### SITE PLAN **APPROVAL**

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No.	Date	Description I
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**CIVIL UTILITY** 

KEY PLAN

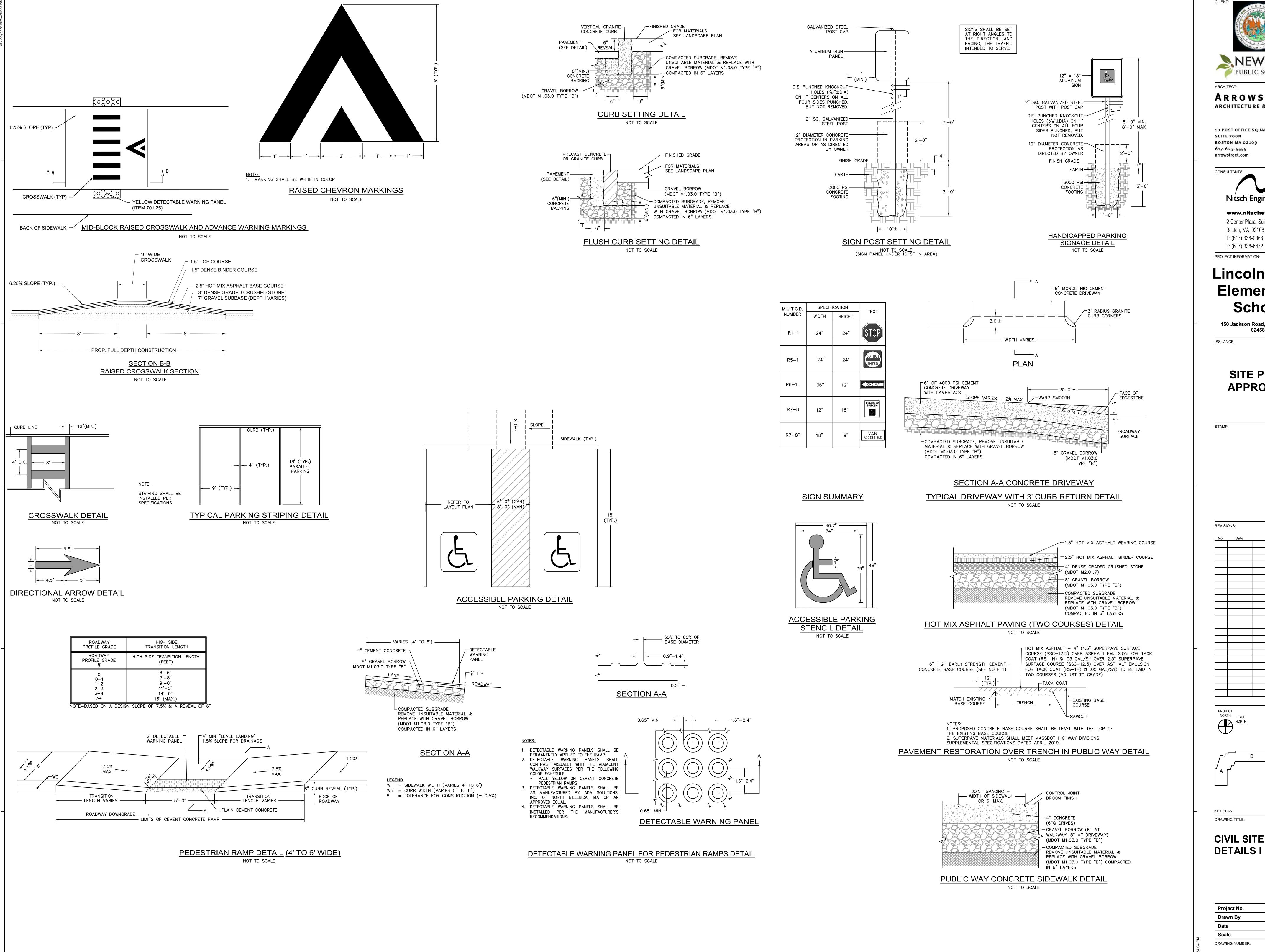
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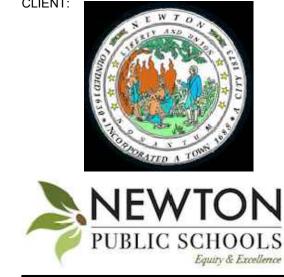
Project No.

**DETAILS III** 

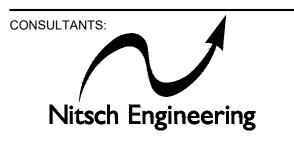
Drawn By	BSR
Date	05/03/2022
Scale	AS NOTED
DRAWING NUMBER:	

C-603





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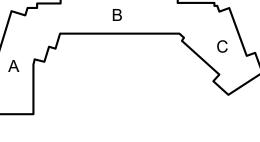
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# Lincoln-Eliot **Elementary** School

150 Jackson Road, Newton, MA

SITE PLAN **APPROVAL** 

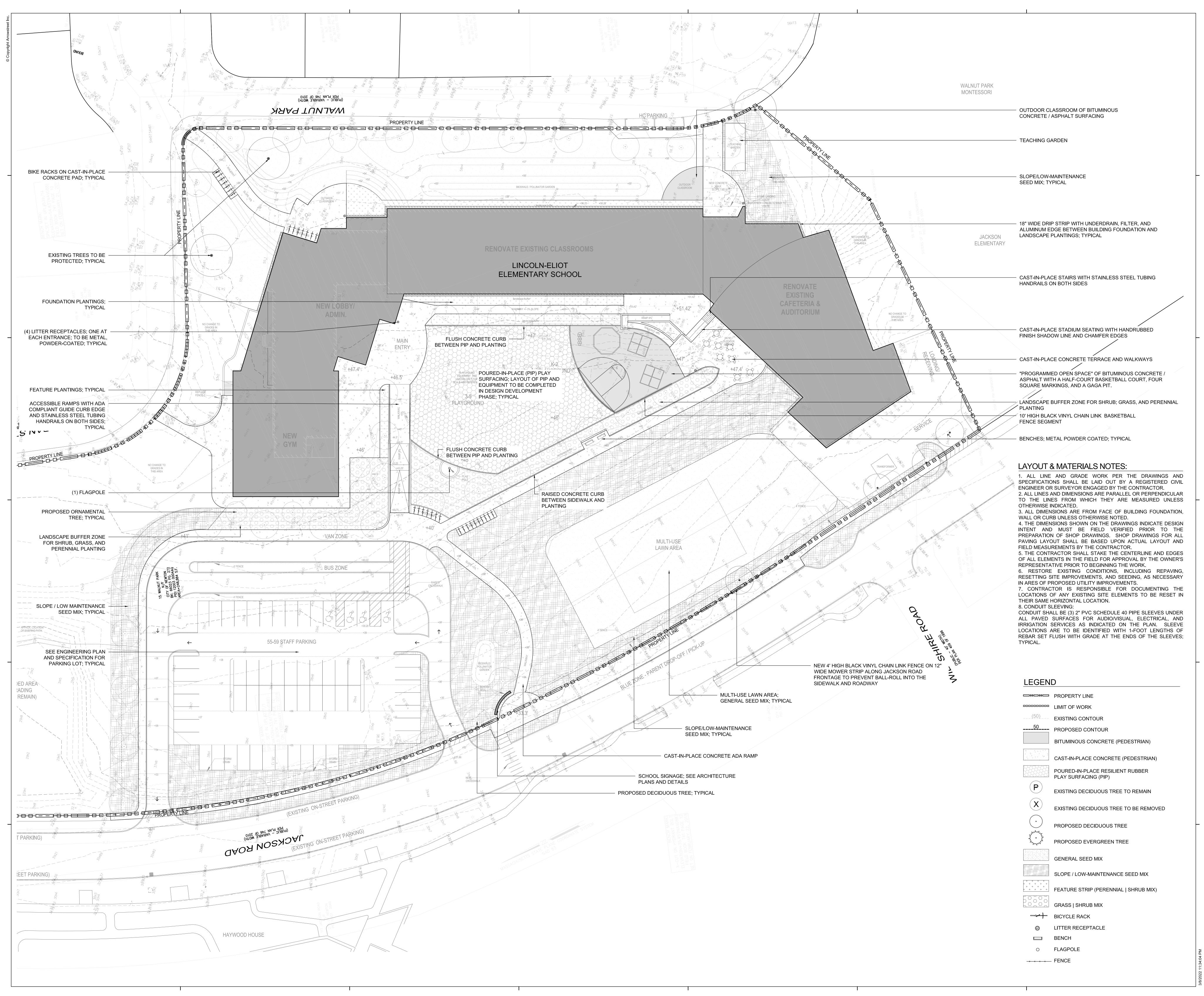
NORTH TRUE

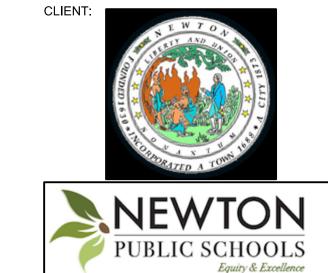


DRAWING TITLE:

**CIVIL SITE DETAILS I** 

Drawn By 05/03/2022 **AS NOTED** DRAWING NUMBER:





ARCHITECT:

ARCHITECTURE & DESIGN

10 POST OFFICE SQUARE
SUITE 700N
BOSTON MA 02109
617.623.5555

CONSULTANTS:



PROJECT INFORMATION:

# Lincoln-Eliot Elementary School

150 Jackson Road, Newton, MA 02458

ISSUANCE:

### SITE PLAN APPROVAL

STAMP:

REVISIONS:

No. Date Description

PROJECT NORTH

TRUE NORTH

B

C

KEY PLAN

DRAWING TITLE:

LAYOUT AND MATERIALS

DRAWING NUMBER:

Scale

L1.01

1" = 20'-0"