



**EROSION CONTROL NOTES:**

- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:  
 A. GRAVEL BASE COURSE HAS BEEN INSTALLED IN AREAS TO BE PAVED;  
 B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;  
 C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE FOR RIP RAP HAS BEEN INSTALLED;  
 D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED;
- THE CONTRACTOR SHALL CONDUCT DAILY AND TIMELY INSPECTION OF BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES.
- CONSTRUCTION SHALL PROCEED IN SUCH A MANNER AS TO FACILITATE INSTALLATION OF EROSION CONTROL MEASURES AND THE COMPLETION OF GRADING, SEEDING, AND LANDSCAPING AS SOON AS POSSIBLE WITHIN AN AREA. THIS PROCEDURE SHOULD RESULT IN THE EXPOSURE OF THE SMALLEST PRACTICAL LAND AREA AT ANY ONE TIME.
- INSTALL SILT SOCKS AS SHOWN ON PLAN AND IN DETAIL BEFORE EARTHWORK COMMENCES. ADDITIONAL SILT SOCKS MAY BE REQUIRED AS WORK CONTINUES.
- CUT AND FILL SLOPES BOTH CALL FOR EROSION CONTROL MEASURES.
- ALL DISTURBED AREAS SHALL HAVE TOPSOIL SPREAD (8" MINIMUM) AND BE LIMED, FERTILIZED, TILLED, SEEDED AND MULCHED. ALL SLOPES 3:1 (3 RUN 1 RISE) AND STEEPER SHALL HAVE MULCH HELD IN PLACE WITH BIODEGRADABLE JUTE NETTING, STAPLED AND STAKED. EACH AREA SHALL BE LIMED, FERTILIZED, PREPARED, SEEDED AND MULCHED (WITH ANCHORED NETTING IF REQUIRED) WITHIN 24 HOURS OF FINAL GRADING. WHEN PERMANENT SEEDING CANNOT BE INSTALLED BY SEPTEMBER 15, TEMPORARY SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE INSTALLED IMMEDIATELY AND MAINTAINED IN THAT CONDITION UNTIL PERMANENT PRACTICES CAN BE INSTALLED IN THE FOLLOWING PLANTING SEASON.
- TEMPORARY STABILIZATION OF DISTURBED AREAS: SEED BED PREPARATION:  
 TILL THREE INCHES DEEP MIXING IN FERTILIZER.  
 APPLY LIME 2 TONS/ACRE (100#/1,000 SQ. FT.)  
 FERTILIZE: UNIFORMLY APPLY NOT LESS THAN 300#/ACRE (7#/1,000 SQ. FT.) OF 10-20-20 OR EQUIVALENT.  
 SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE 1 BELOW. SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THAN RAKE LIGHTLY TO COVER SEEDS.  
 MULCHING: MULCH ALL DISTURBED AREAS WITH 1- 1/2 TO 2 TONS OF STRAW OR SALT MARSH HAY PER ACRE (70-90# / 1,000 SQ. FT.)  
 ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND FLATTER SLOPES SUBJECT TO WASHOUTS OR WIND BLOWING. JUTE OR OTHER BIODEGRADABLE NETTING, STAKING AND STAPLING MAY BE REQUIRED.

**TABLE 1  
PLANT SELECTION AND SEEDING RATES**

SPECIES	PER ACRE	PER 1,000 SQ. FT.	REMARKS
WINTER RYE	2 BU OR 112 LBS.	2.6 LBS.	BEST FOR FALL SEEDING. SEED AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO DEPTH OF ONE INCH.
OATS	2 1/2 BU OR 90 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO DEPTH OF ONE INCH.
ANNUAL RYE	40 LBS.	1. LB	GROWS QUICKLY, BUT IS FOR SHORT GRASS DURATION. USE WHERE APPEARANCES ARE IMPORTANT. COVER SEED WITH NO MORE THAN 1/2 INCH OF SOIL WITH MULCH. SEEDING MAY BE DONE THROUGHOUT GROWING SEASON. OTHERWISE SEED EARLY SPRING OR BETWEEN AUGUST 15 AND SEPTEMBER 15.

- PERMANENT STABILIZATION OF DISTURBED AREAS:  
 SEED BED PREPARATION: TOPSOIL (SANDY LOAM, LOAM, OR SILT LOAM), FRIABLE, FREE OF TREE ROOTS, WEEDS, STONES MORE THAN 1- 1/2 INCHES IN DIAMETER OR LENGTH SHALL BE PLACED OVER ALL DISTURBED AREAS IN A 6" MINIMUM AND 8" MAXIMUM THICK LAYER. TOPSOIL SHALL BE FREE OF HERBICIDES AND TOXIC MATERIALS. TILL 4 INCHES DEEP MIXING IN THE FERTILIZER AND LIME. APPLY LIME 2 TONS/ACRE (100# / 1,000 SQ. FT.)  
 FERTILIZER: UNIFORMLY APPLY NOT LESS THAN 500#/ACRE (12#/1,000 SQ. FT.) OF 10-20-20 OR EQUIVALENT.  
 SEEDING: SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THAN RAKE LIGHTLY TO COVER SEEDS.  
 MULCHING: MULCH ALL DISTURBED AREAS WITH 1- 1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70-90# / 1,000 SQ. FT.). ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND ON LATTER SLOPES SUBJECT TO WASH (WATERWAYS) AND/OR WINDBLOWN USING JUTE OR OTHER BIODEGRADABLE NETTING, STAKING, AND STAPLING.
- TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- MAINTENANCE: DURING THE CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE LONG TERM VEGETATION IS ESTABLISHED.  
 A. DISTURBED AREAS WILL BE FERTILIZED AND RESEEDED.  
 B. CATCH BASINS WILL BE CHECKED AND CLEANED AS NECESSARY.  
 C. DRAINAGE AND GRASS TREATMENT SWALES SHALL BE CHECKED FREQUENTLY AND CLEANED AS REQUIRED.  
 D. THE HAYBALE DIKES WILL BE CHECKED ON A REGULAR BASIS AND REPAIRED AS NECESSARY TO CORRECT ANY DAMAGE, DETERIORATION, AND SHORT CIRCUITING.
- SITE VISITS: THE ENGINEER SHALL BE CONTACTED ON A REGULAR BASIS TO OBSERVE ALL EROSION CONTROL PRACTICES AS WELL AS THE MAINTENANCE OF THE EROSION CONTROL COMPONENTS. REFER TO CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EROSION CONTROL PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- ALL TREATMENT SWALES AND DITCHES SHALL BE ESTABLISHED PRIOR TO DIRECTING RUNOFF TO THEM.

**SURVEY NOTES:**

- SURVEY COORDINATES ARE BASED ON MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM (NAD83).
- SURVEY ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).
- EXISTING CONDITIONS INFORMATION IS COMPILED FROM ON THE GROUND GPS SURVEY, ROBOTIC TOTAL STATION, AS WELL AS RECORD PLANS AND INFORMATION SUPPLIED BY THE CLIENT.

**CONSTRUCTION SEQUENCE:**

- GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING NPDES GENERAL CONSTRUCTION PERMIT.
- INSTALL SILT SOCKS AT ALL LOCATIONS INDICATED ON PLANS AND AT OTHER LOCATIONS AS DETERMINED BY ENGINEER. INSTALL OTHER TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AS EARTHWORK PROCEEDS AND AS DETERMINED NECESSARY BY THE ENGINEER.
- INSTALL STABILIZE CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS WITH COARSE AGGREGATE 4 INCHES (MINIMUM) OVER COMPACTED FILL AREAS TO PREVENT OFF-SITE TRACKING BY VEHICLES AND EQUIPMENT. PROVIDE STEEL PLATES AS NECESSARY FOR CURB CROSSING.
- INSPECT AND MAINTAIN GRADING, EROSION CONTROL, AND SEDIMENT CONTROL PRACTICES WEEKLY, AND IMMEDIATELY AFTER ALL STORMS OF MORE THAN 1/2 OF AN INCH OF PRECIPITATION WITHIN 24 HOURS.
- REFER TO EROSION CONTROL NOTES FOR ADDITIONAL DETAILS RELATIVE TO THE REQUIRED CONSTRUCTION SEQUENCE.
- MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL COMPONENTS AND INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL COMPONENTS SHALL BE AN ONGOING PRACTICE AND IN STRICT ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
- INSPECT ALL DISTURBED AREAS ON A DAILY BASIS. FOLLOWING THE DAILY INSPECTION, INSTALL AS REQUIRED ANY AND ALL TEMPORARY DRAINAGE, EROSION, AND SEDIMENT CONTROL DEVICES SUCH AS DIVERSION CHANNELS, BERMIS, DRAINS, DITCHES, SEED AND MULCH.
- REMOVE AND DISPOSE ALL CHAIN LINK FENCING AND GATES WITHIN THE SITE PERIMETER.
- REMOVE AND DISPOSE METAL HAND RAIL SYSTEM.
- REMOVE AND DISPOSE WOODEN RETAINING WALL.
- REMOVE AND DISPOSE ALL BENCHES, PLAY STRUCTURES, SIGNS, AND BIKE RACK.
- REMOVE AND DISPOSE WATER FOUNTAIN, WATER PLAY STRUCTURE, WATER CABINET AND 2" WATER LINE.
- REMOVE AND DISPOSE BIT. CONC. BASKETBALL COURT, HOOP AND FOUNDATION, PERIMETER CONCRETE RETAINING WALL AROUND BASKETBALL COURT, CONCRETE WALKWAYS, CONCRETE PADS, CONCRETE SPLASH PAD, CONCRETE CATCH BASINS, AS WELL AS THE FLAGPOLE AND FOUNDATION.
- REMOVE AND DISPOSE WOOD CHIPS, AND MULCH, WITHIN THE PROJECT LIMITS.
- REMOVE AND DISPOSE 12" RCP DRAIN LINE AS INDICATED ON THE DEMOLITION & EROSION CONTROL PLAN. CUT AND PREPARE FOR CONNECTION TO NEW MANHOLE.
- REMOVE AND DISPOSE TREES AND SHRUBS AS INDICATED ON THE DEMOLITION & EROSION CONTROL PLAN.
- INSTALL NEW CONCRETE RETAINING WALL AND FENCING AROUND SITE PERIMETER.
- INSTALL FILL WITHIN THE PROJECT AREA AND ADD TO THE DESIRED ELEVATIONS. PREPARE FOR PAVEMENT.
- INSTALL MANHOLES, CATCH BASINS, AND NEW DRAIN LINE. CONNECT NEW MANHOLE TO EXISTING DRAIN LINE IN THE LOCATION MARKED ON THE DRAINAGE & UTILITY PLAN.
- INSTALL NEW BIT. CONC. BASKETBALL COURT, HOOP, AND FOUNDATION.
- INSTALL PLAY STRUCTURES AND EQUIPMENT.
- INSTALL NEW SPLASH PAD AND EQUIPMENT.
- INSTALL CONCRETE WALKWAYS, AND NEW FLAGPOLE WITH FOUNDATION.
- INSTALL CHAIN LINK FENCING AND GATES AS SHOWN ON THE LAYOUT & MATERIALS PLAN.
- INSTALL SHADE SHELTER, BENCHES, AND TABLES.
- INSTALL CONCRETE CURBING FOR PLANTING AREAS.
- INSTALL PIP SURFACING FOR PLAY AREAS.
- INSTALL NEW BIKE RACKS IN FRONT OF THE PARK IN THE AREA INDICATED ON THE LAYOUT & MATERIALS PLAN.
- INSTALL NEW GRANITE PARK SIGN.
- PLACE TOPSOIL, COMPLETE PERMANENT FERTILIZING, LIMING, SEEDING AND MULCHING, INSTALL LANDSCAPE PLANTING
- CLEAN AND RESTORE SILT DETENTION SITES AND DRAINAGE STRUCTURES. REMOVE OTHER EROSION CONTROL PRACTICES ON A TIMELY BASIS AS PERMANENT MEASURES TAKE HOLD. SPOT FERTILIZE, SEED, AND MULCH AS REQUIRED.
- PERFORM AS-BUILT SURVEY AND SUBMIT AS-BUILT AND RECORD DRAWINGS.
- TRAIN OWNER'S REPRESENTATIVES IN MAINTENANCE AND OPERATIONS OF SCOREBOARDS, ATHLETIC FIELD LIGHTING SYSTEM, TURF GROOMING, ETC.
- COMPLETE PROJECT PUNCH LIST.
- SUBMIT ALL REQUIRED DOCUMENTATION, INCLUDING BUT NOT LIMITED TO: WARRANTIES, MAINTENANCE DOCUMENTS, RECORD DOCUMENTS, ETC.

**CONSTRUCTION NOTES:**

- ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL CPW/DPW SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO COMPLETE THE WORK.
- ALL UTILITY SIZES, LOCATIONS, AND APPURTENANCES ARE SUBJECT TO THE APPROVAL AND/ OR REVISION OF THE RESPECTIVE UTILITY HAVING JURISDICTION.
- NOTIFY "DIG-SAFE" (1-888-344-7233) AND THE LOCAL CPW TO VERIFY THE LOCATION, DEPTH AND SIZE OF THE EXISTING UTILITY SERVICE CONNECTIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR LOAMING AND HYDROSEEDING AREAS DISTURBED BY CONSTRUCTION OPERATIONS.
- ALL MATERIAL TO BE REMOVED MUST BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS OTHERWISE SPECIFIED.
- ALL EROSION CONTROL TO BE INSTALLED PRIOR TO ANY OTHER WORK ON THE SITE.
- WALKWAY CROSS SLOPES, AS INDICATED IN THE STANDARD SPECIFICATIONS, WILL BE AT 1.6% MAXIMUM, 1.5% PREFERRED, IN ACCORDANCE WITH THE ARCHITECTURAL ACCESS BOARD (AAB) RULES AND REGULATIONS, THE SIDEWALK CROSS SLOPE CANNOT EXCEED 2.0%.
- ANY ALTERATIONS REQUIRED ON THESE DRAWINGS DURING CONSTRUCTION SHALL BE APPROVED BY THE PROJECT ENGINEER AND THE CITY PRIOR TO CONSTRUCTION AND SHALL BE RECORDED ON THE "AS-BUILT" DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AND TIME SCHEDULES WITH THE CITY AND THEIR REPRESENTATIVES.

**DIMENSIONS AND QUANTITIES:**

- ALL DIMENSIONS AND QUANTITIES SHALL BE DETERMINED OR VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- THE INFORMATION ON THE CONTRACT DRAWINGS HAS BEEN COMPILED FROM VARIOUS SOURCES AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND MAKE ALL INVESTIGATIONS NECESSARY TO PERFORM THE WORK. THE OWNER WILL NOT CONSIDER UNFAMILIARITY WITH THE PROJECT AS A BASIS FOR ADDITIONAL COMPENSATION.

**PROTECTION NOTES:**

- ADEQUATE PROTECTION OF PERSONS AND PROPERTY SHALL BE PROVIDED AT ALL TIMES. THE WORK SHALL BE EXECUTED IN SUCH A WAY AS TO AVOID HAZARD TO PERSONS AND PROPERTY. WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- PROVIDE ALL NECESSARY TEMPORARY PROTECTION AND BARRIERS TO SEGREGATE THE WORK AREA AND TO PREVENT DAMAGE TO ADJACENT AREAS.
- PROVIDE PROPER PROTECTION AND BARRIERS BETWEEN THE WORK OF THE CONTRACT AND THE EXISTING STRUCTURES TO REMAIN.
- PROVIDE MAXIMUM SECURITY IN TERMS OF PREVENTION OF FIRE AND OTHER HAZARDS.

**PERMIT ADVISORY NOTE:**

- PURSUANT TO M.G.L. CHAPTER 82A SECTION 1, 520 CMR 7.00 AND CMR 14.00, ALSO IN ACCORDANCE WITH 'SUMMARY OF 1926 SUBPART P - OSHA EXCAVATION STANDARD' THE CONTRACTOR IS RESPONSIBLE FOR THE FILING OF AND FULLY MEETING THE CONDITIONS OF THE NEWLY ADOPTED TRENCH PERMIT.

**DEMOLITION NOTES:**

- DIG SAFE MUST BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- ALL EXISTING UTILITIES SHALL BE PROTECTED UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL TAKE ALL ACTIONS NECESSARY TO PROTECT THE EXISTING FACILITIES OUTSIDE THE LIMIT OF WORK.
- THE CONTRACTOR SHALL TAKE BENEFICIAL OCCUPANCY OF ALL AREAS WITHIN THE LIMIT OF WORK. THE OWNER RESERVES THE RIGHT TO UNRESTRICTED USE OF ALL OTHER AREAS ON SITE. THE LIMIT OF WORK SHALL BE CONSIDERED THE LIMITS OF PROPOSED CONSTRUCTION FENCING.
- ALL EXISTING TOPSOIL IN EXCESS OF THE PROJECT REQUIREMENTS SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR. THIS SHALL INCLUDE ALL TAILINGS AND DEBRIS FOUND DURING SCREENING.
- ALL MATERIALS TO BE REMOVED FROM THE SITE SHALL BE DISPOSED OF LEGALLY AND PROPERLY OFF SITE BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR LOAMING AND HYDROSEEDING ALL LAWN AREAS DISTURBED BY DEMOLITION OR CONSTRUCTION. DISTURBED AREAS SHALL BE BROUGHT TO PROPOSED FINISH GRADES.

WWW.NESRAENG.COM  
 607-506-3772  
**ENGINEERING**  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760



**PROJECT**

CORPORAL ARTHUR NELSON  
 PLAY LOT RENOVATION  
 PROJECT  
 FULLER STREET  
 EVERETT, MA 02738

**CLIENT**

CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

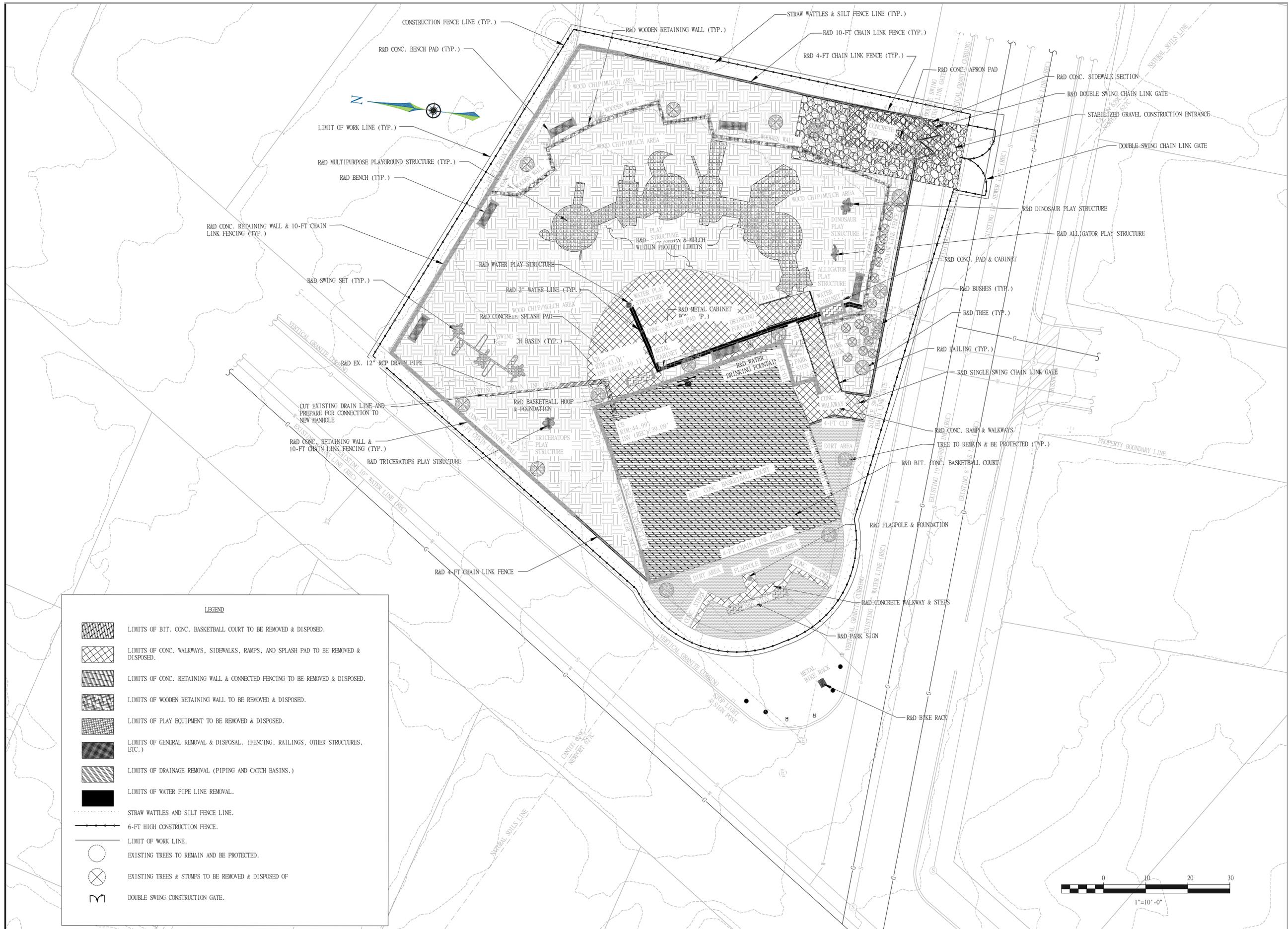
NO.	REVISION	DATE

SCALE - AS NOTED  
 DATE - 12/12/25

**GENERAL NOTES**

**C-2**





www.nesraeng.com  
 607-506-3772  
**NESRA ENGINEERING**  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760



PROJECT  
 CORPORAL ARTHUR NELSON  
 PLAY LOT RENOVATION  
 PROJECT  
 FULLER STREET  
 EVERETT, MA 02738

CLIENT  
 CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

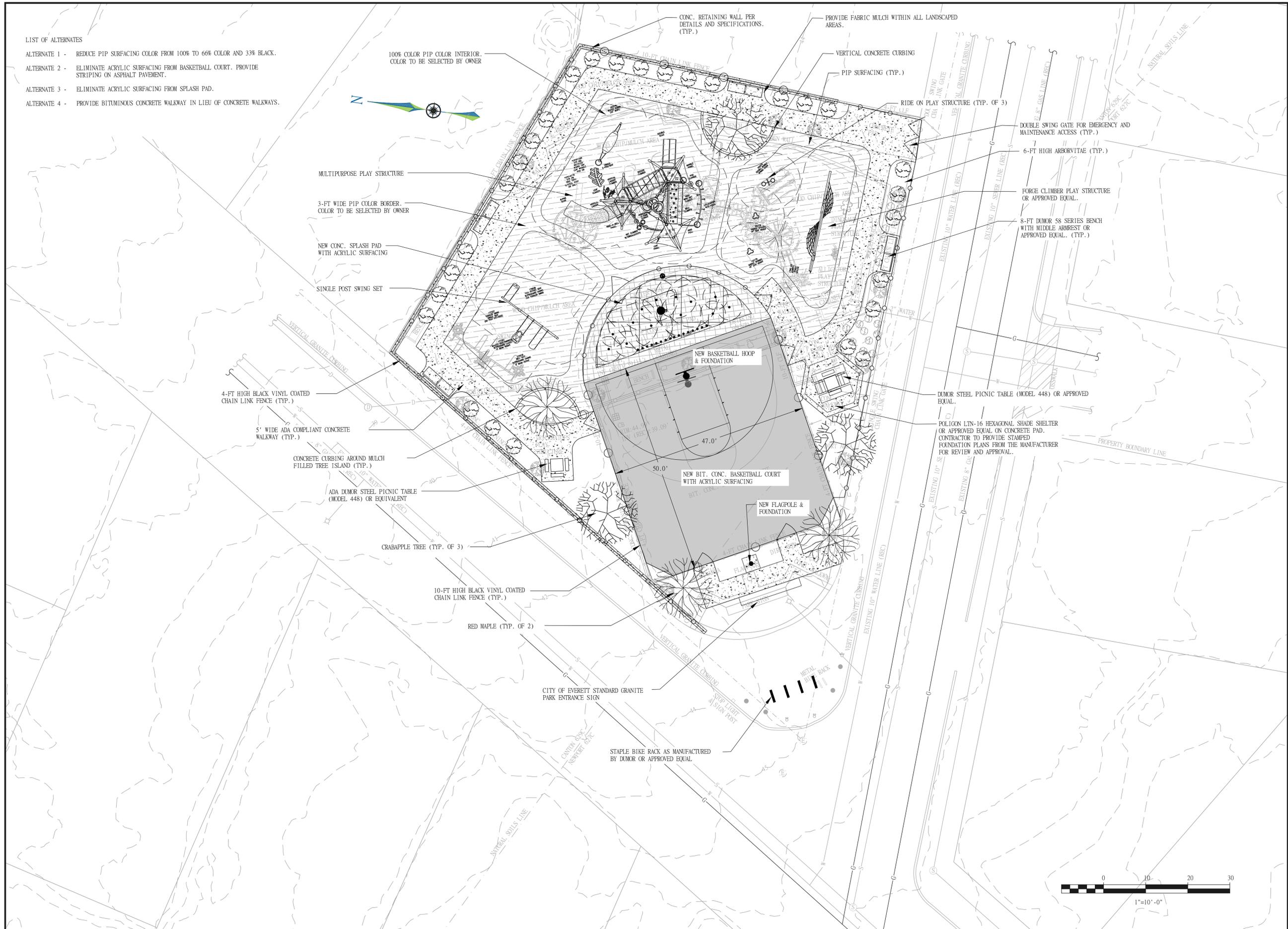
DESIGNED BY	JEFF B.	
REVIEWED BY	ARSEN H.	
NO.	REVISION	DATE

SCALE - AS NOTED  
 DATE - 12/12/25

**DEMOLITION &  
 EROSION CONTROL  
 PLAN**

**C-4**

- LIST OF ALTERNATES
- ALTERNATE 1 - REDUCE PIP SURFACING COLOR FROM 100% TO 66% COLOR AND 33% BLACK.
  - ALTERNATE 2 - ELIMINATE ACRYLIC SURFACING FROM BASKETBALL COURT. PROVIDE STRIPING ON ASPHALT PAVEMENT.
  - ALTERNATE 3 - ELIMINATE ACRYLIC SURFACING FROM SPLASH PAD.
  - ALTERNATE 4 - PROVIDE BITUMINOUS CONCRETE WALKWAY IN LIEU OF CONCRETE WALKWAYS.



www.nesraeng.com  
607-506-3772

**NESRA ENGINEERING**

MA \* RI \* NH \* ME \* VT \* FL  
829 SOUTH WASHINGTON STREET  
NORTH ATTLEBORO  
MASSACHUSETTS 02760



PROJECT

CORPORAL ARTHUR NELSON  
PLAY LOT RENOVATION  
PROJECT  
FULLER STREET  
EVERETT, MA 02738

CLIENT

CITY OF EVERETT  
484 BROADWAY  
EVERETT, MA 02738

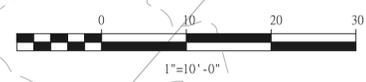
DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE

SCALE - AS NOTED  
DATE - 12/12/25

LAYOUT &  
MATERIALS PLAN

**C-5**



[WWW.NESRAENG.COM](http://WWW.NESRAENG.COM)  
 607-506-3772  
**NESRA ENGINEERING**  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760



**PROJECT**  
 CORPORAL ARTHUR NELSON  
 PLAY LOT RENOVATION  
 PROJECT  
 FULLER STREET  
 EVERETT, MA 02738

**CLIENT**  
 CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE

SCALE - AS NOTED  
 DATE - 12/12/25

GRADING PLAN

**C-6**



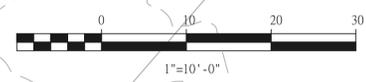
CONTRACTOR SHALL COORDINATE THE LOCATION AND SCREENING OF THE ELECTRICAL ENCLOSURE WITH THE OWNER AND ENGINEER.

PROVIDE NEW ELECTRICAL SERVICE, ELECTRICAL ENCLOSURE AND SUFFICIENT POWER FOR SPLASH PAD CONTROLS. SEE ELECTRICAL PLANS AND TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NEW 4" WATER MAIN. PROVIDE CITY OF EVERETT APPROVED TAPPING SLEEVE AND VALVE. SEE SPECIFICATIONS FOR WATER REQUIREMENTS.

PROVIDE NEW STAINLESS STEEL WATER CABINET.

PROVIDE UP LIGHTING AND ELECTRICAL SERVICE IN ACCORDANCE WITH THE ELECTRICAL PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER ELECTRICAL REQUIREMENTS AS DETAILED IN THE ELECTRICAL PLANS AND SPECIFICATIONS.




  
 WWW.NESRAENG.COM  
 607-506-3772  
**ENGINEERING**  
 MA \* RI \* NH \* ME \* VT \* FL  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760



**PROJECT**  
 CORPORAL ARTHUR NELSON  
 PLAY LOT RENOVATION  
 PROJECT  
 FULLER STREET  
 EVERETT, MA 02738  
**CLIENT**  
 CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

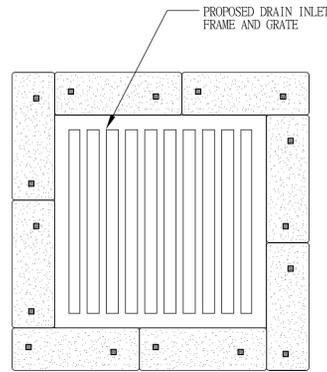
DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE

SCALE - AS NOTED  
 DATE - 12/12/25

**DRAINAGE & UTILITY PLAN**

**C-7**



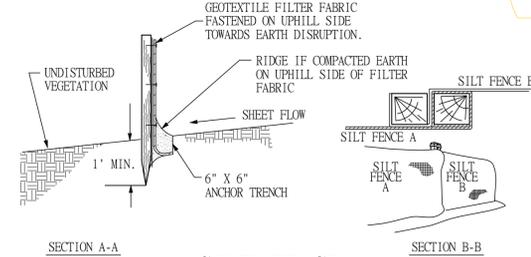
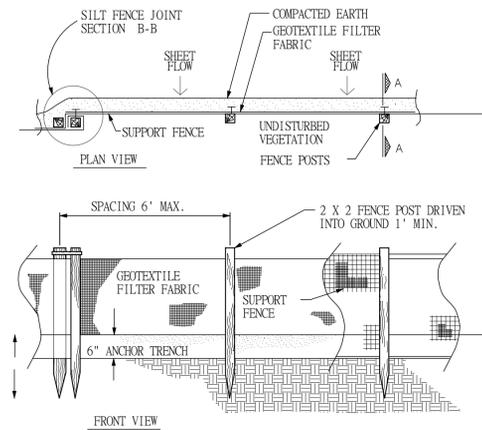
**NOTES:**

BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

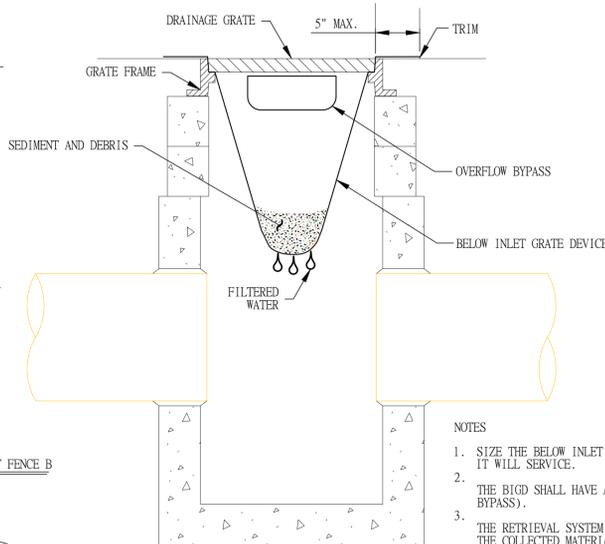
BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

**CATCH BASIN STRAW BALE FILTER DETAIL**  
N.T.S.



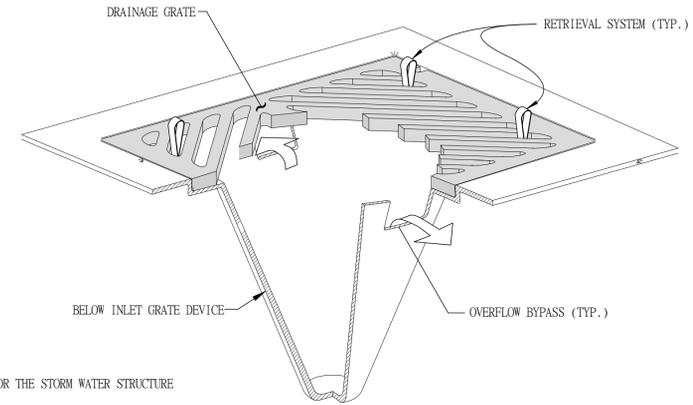
**SILT FENCE**  
N.T.S.



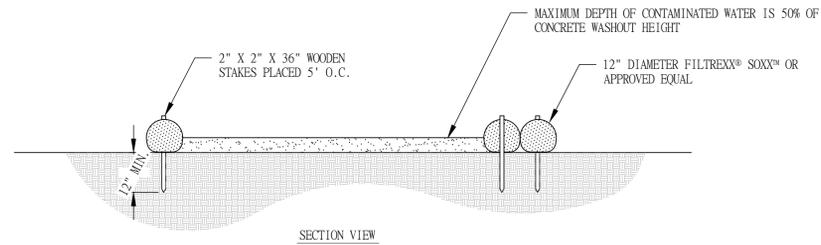
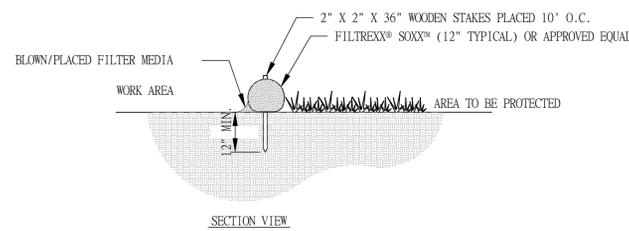
**NOTES:**

1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
4. PERFORM MAINTENANCE IN ACCORDANCE WITH STORMWATER POLLUTION PREVENTION PLAN, TO BE PREPARED BY THE CONTRACTOR.

**STORM DRAIN INLET PROTECTION**  
N.T.S.

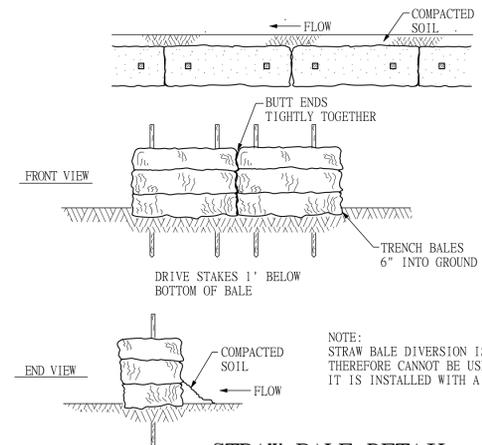


**ISOMETRIC VIEW**

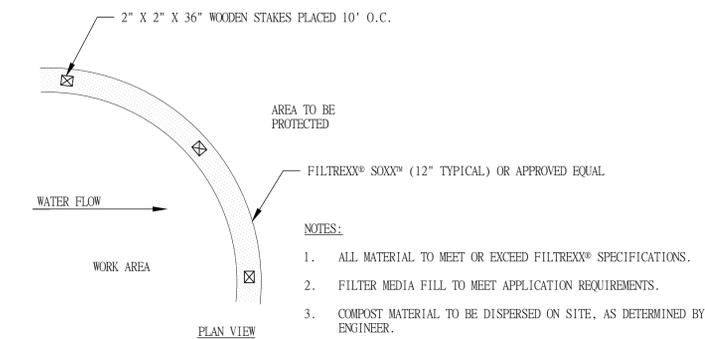


**NOTES:**

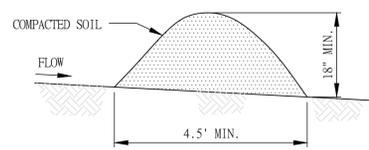
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. CONCRETE WASHOUT MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY
3. CONCRETE WASHOUT MAY BE DIRECT SEEDED AT THE TIME OF INSTALLATION



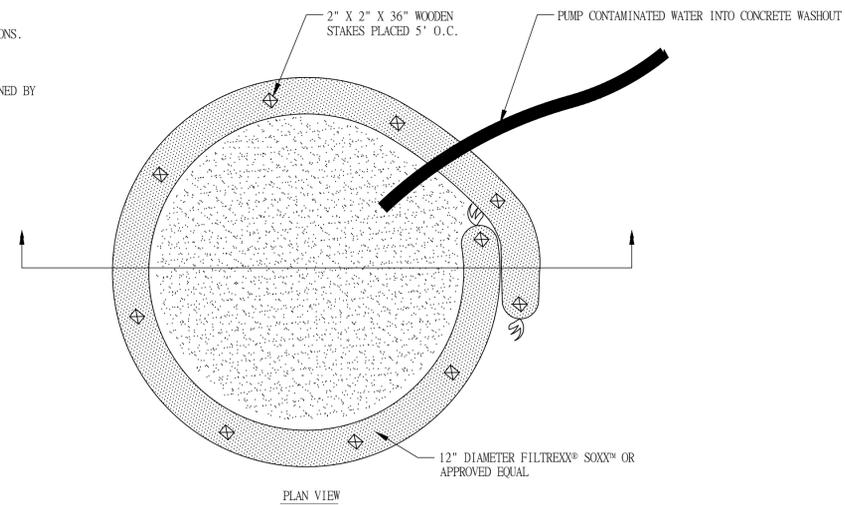
**STRAW BALE DETAIL**  
N.T.S.



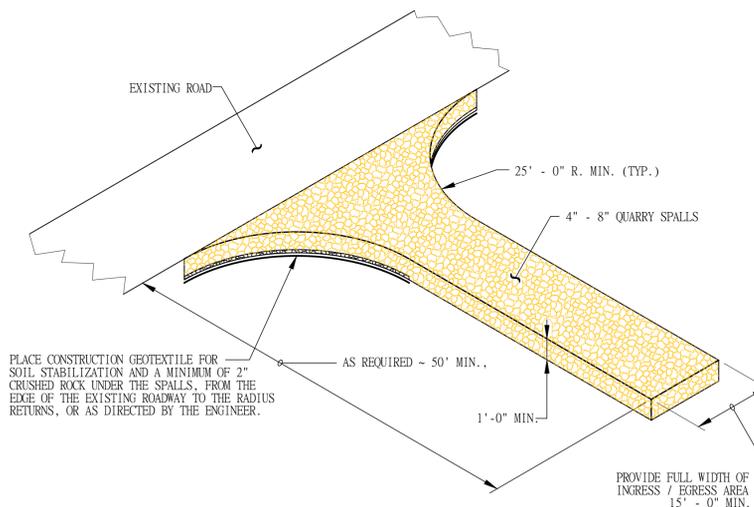
**SEDIMENT CONTROL**  
N.T.S.



**TEMPORARY DIVERSION DIKE**  
N.T.S.



**CONCRETE WASHOUT STATION**



**STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S.

WWW.NESRAENG.COM  
607-306-3772

**NESRA ENGINEERING**

MA - 829 SOUTH WASHINGTON STREET  
RI - NORTH ATTLEBORO  
NH - MASSACHUSETTS 02760



**PROJECT**

CORPORAL ARTHUR NELSON  
PLAY LOT RENOVATION  
PROJECT  
FULLER STREET  
EVERETT, MA 02738

**CLIENT**

CITY OF EVERETT  
484 BROADWAY  
EVERETT, MA 02738

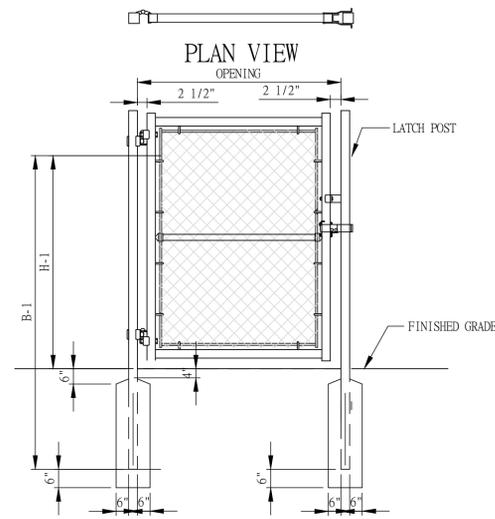
DESIGNED BY: JEFF B.  
REVIEWED BY: ARSEN H.

NO.	REVISION	DATE

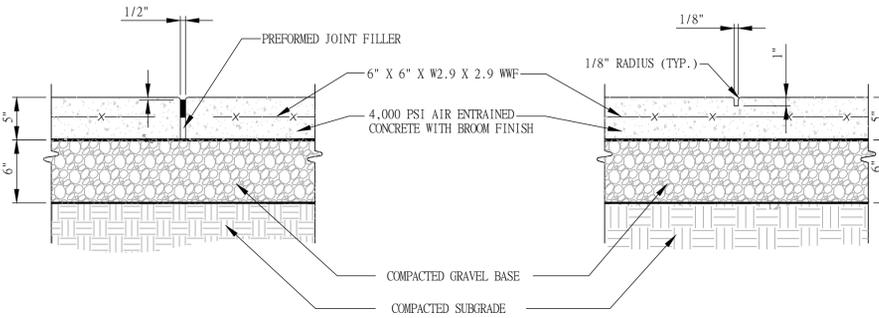
SCALE - AS NOTED  
DATE - 12/12/25

**CONSTRUCTION  
DETAILS I**

**C-8**

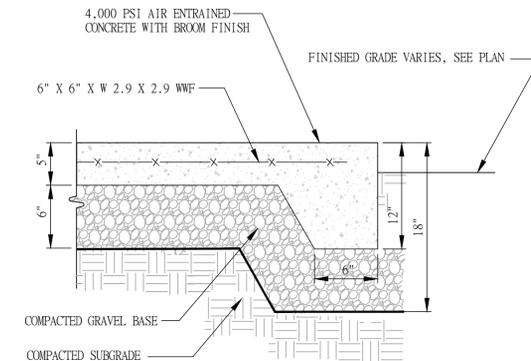


**SINGLE GATE DETAIL**  
N.T.S.



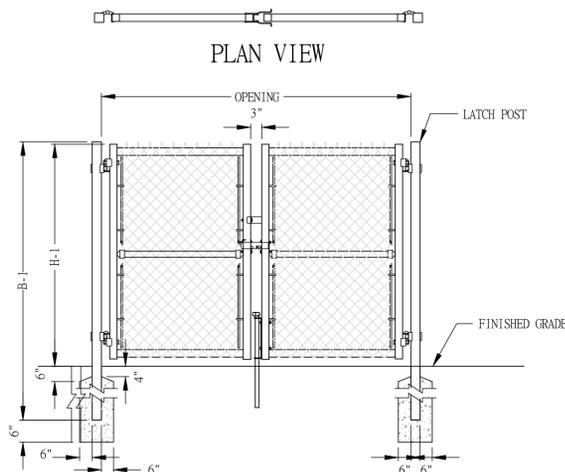
**EXPANSION JOINT**

**CONTROL JOINT**

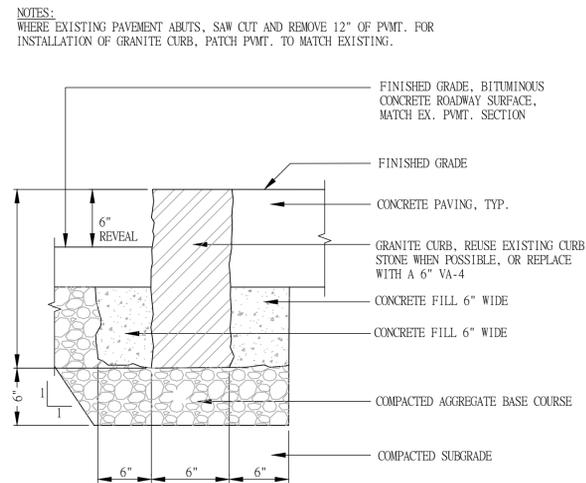


**END SECTION**

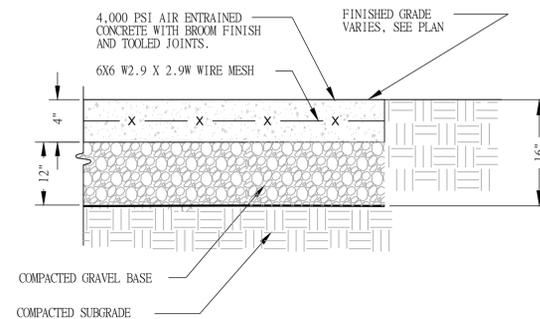
**TYPICAL CONCRETE WALKWAY DETAIL**  
N.T.S.



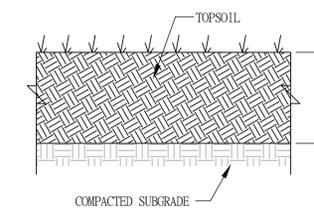
**DOUBLE GATE DETAIL**  
N.T.S.



**GRANITE CURBING**  
N.T.S.



**END SECTION**



**LOAM AND SEED DETAIL**  
N.T.S.

**TYPICAL CONCRETE PAD DETAILS**  
N.T.S.

FENCE HEIGHT	END & CORNER POSTS		LINE POSTS	
	NOMINAL HEIGHT	BAR LENGTH B-1	HEIGHT ABOVE GRADE H-1	BAR LENGTH B-2
4'-0"	7'-6"	4'-0 3/8"	7'-2"	3'-8 3/8"
6'-0"	9'-6"	6'-0 3/8"	9'-2"	5'-8 3/8"
8'-0"	11'-6"	8'-0 3/8"	11'-2"	7'-8 3/8"
10'-0"	13'-6"	10'-0 3/8"	13'-2"	9'-8 3/8"

SINGLE OR DOUBLE LEAF GATES		
NOMINAL HEIGHT (H)	UPRIGHT HEIGHT (U)	FRAME HEIGHT (F)
WITHOUT BARBED WIRE	ACTUAL DIMENSION	ACTUAL DIMENSION
4'-0"	3'-10"	3'-8 1/2"
6'-0"	5'-10"	5'-8 1/2"
8'-0"	7'-10"	7'-8 1/2"

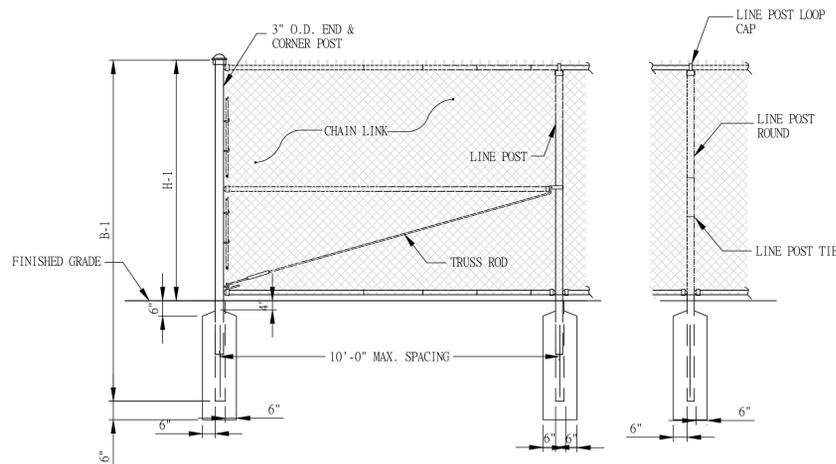
SINGLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & ROUND SIZES	POST TO UPRIGHT
3'-0" THROUGH 6'-0"	2 1/2" OR 3" O.D.	FOR SQUARE & ROUND GATE POSTS 2 1/4"

DOUBLE LEAF GATES		
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & ROUND SIZES	POST TO UPRIGHT
12'-0" THROUGH 24'-0"	3" OR 4" O.D.	FOR SQUARE & ROUND GATE POSTS 2 1/4"

**CHAIN LINK FENCE & GATE NOTES**  
N.T.S.

**NOTES:**

- ALL CHAIN LINK FENCE FABRIC SHALL BE KNUCKLED (TOP AND BOTTOM).
- ALL CHAIN LINK FENCE POSTS, FABRIC, TIES AND MATERIALS SHALL BE PVC COATED.
- CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" AND WIDER. CENTER RAIL REQUIRED ON GATE LEAVES 6'-0" AND HIGHER.
- CONCRETE FOOTINGS SHALL BE FOUR TIMES THE POST DIAMETER, OR AS DESIGNATED ON INDIVIDUAL DETAILS.
- TOP, MID, AND BOTTOM RAILS ARE REQUIRED.
- PROVIDE STEEL TIES.
- PROVIDE HEAVY DUTY GATE LATCH, LOCK AND KEY.



**CHAIN LINK FENCE DETAILS**  
N.T.S.

WWW.NESRAENG.COM  
 607-306-3772  
**ENGINEERING**  
 MA - 829 SOUTH WASHINGTON STREET  
 RI - NORTH ATTLEBORO  
 NH - MASSACHUSETTS 02760  
 NESRA



**PROJECT**  
 CORPORAL ARTHUR NELSON  
 PLAY LOT RENOVATION  
 PROJECT  
 FULLER STREET  
 EVERETT, MA 02738  
**CLIENT**  
 CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

DESIGNED BY JEFF B.

REVIEWED BY ARSEN H.

NO.	REVISION	DATE

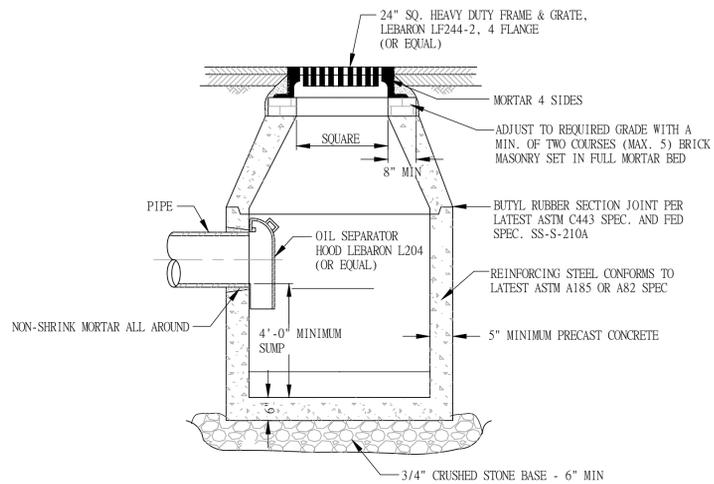
SCALE - AS NOTED  
DATE - 12/12/25

**CONSTRUCTION  
DETAILS II**

**C-9**

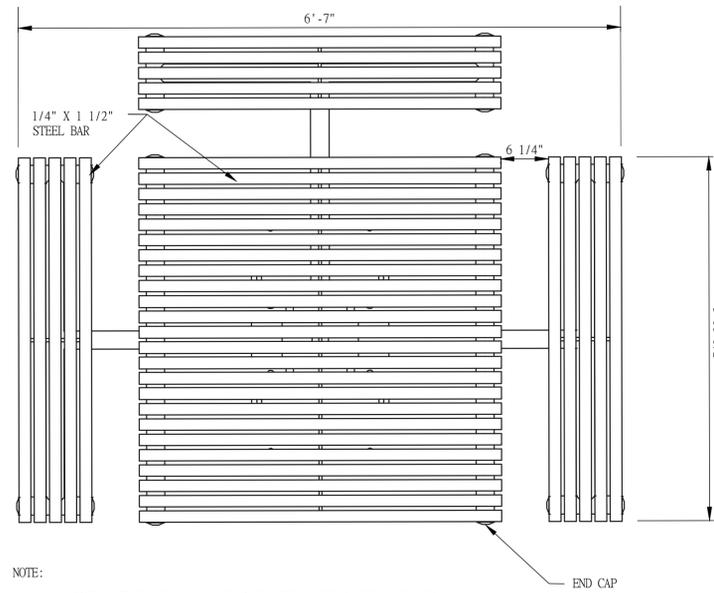




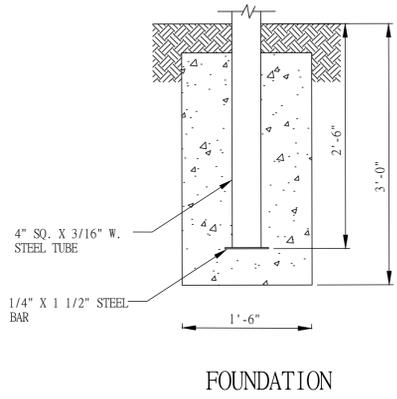


- NOTES:
1. MANHOLE DESIGN TO CONFORM TO LATEST ASTM C-478 SPECIFICATIONS FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
  2. ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C-478.

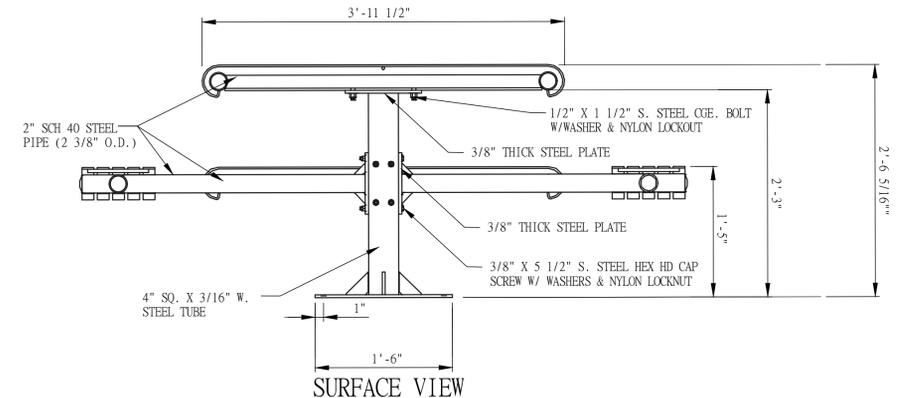
**PRECAST CONCRETE CATCH BASIN**  
N.T.S.



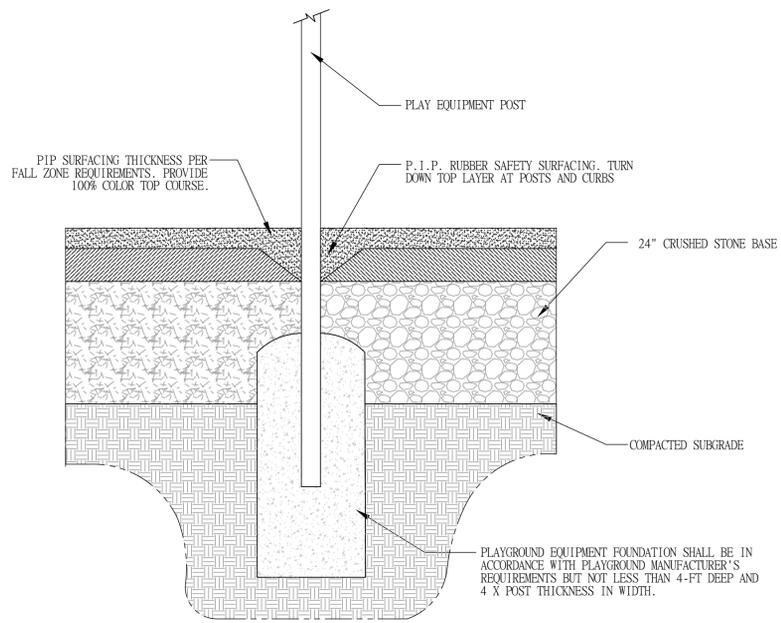
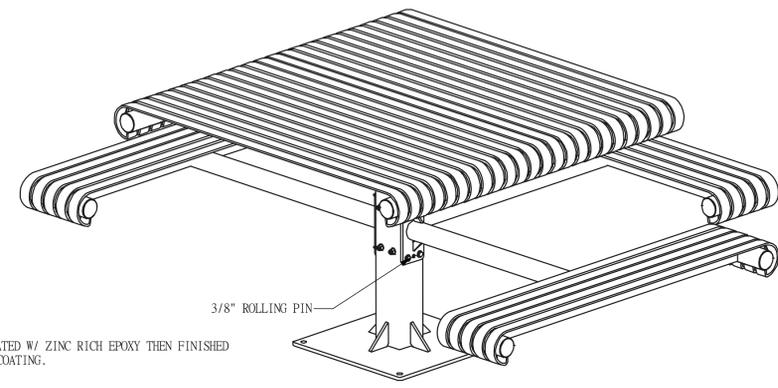
- NOTE:
1. ADA COMPLIANT TABLES WILL HAVE ONE "OPEN" SIDE OF THE TABLE FOR WHEELCHAIR ACCESS WHILE TRADITIONAL TABLES WILL HAVE SEATING ON ALL FOUR SIDES.



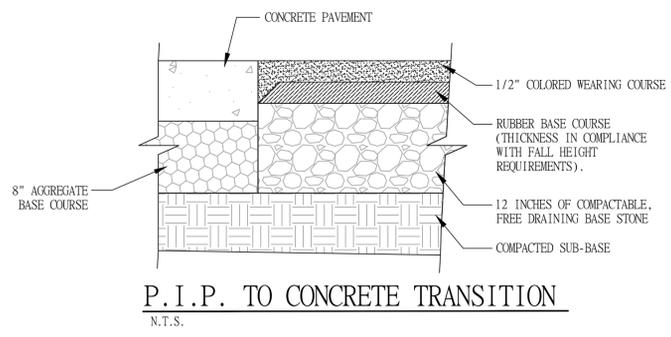
**PICNIC TABLE DETAIL**  
N.T.S.



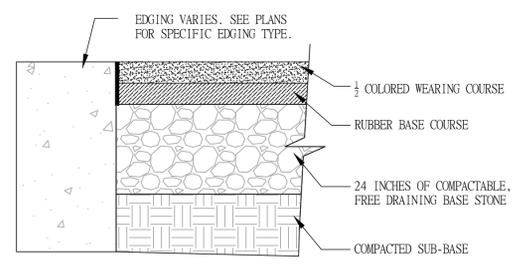
- NOTES:
- 1) ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.



**PLAYGROUND EQUIPMENT FOUNDATION AND SURFACING**  
N.T.S.



**P.I.P. TO CONCRETE TRANSITION**  
N.T.S.



**PLAYGROUND SURFACING DETAIL**  
N.T.S.

WWW.NESRAENG.COM  
607-306-3772

**NESRA ENGINEERING**

829 SOUTH WASHINGTON STREET  
NORTH ATTLEBORO  
MASSACHUSETTS 02760



PROJECT

CORPORAL ARTHUR NELSON  
PLAY LOT RENOVATION  
PROJECT  
FULLER STREET  
EVERETT, MA 02738

CLIENT

CITY OF EVERETT  
484 BROADWAY  
EVERETT, MA 02738

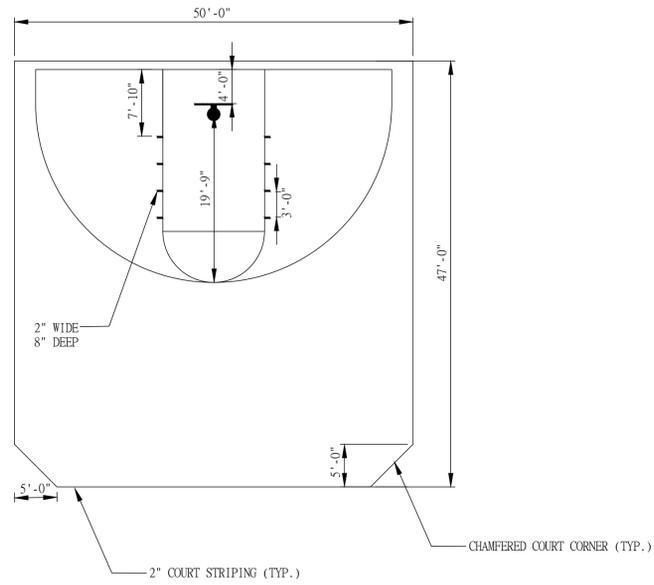
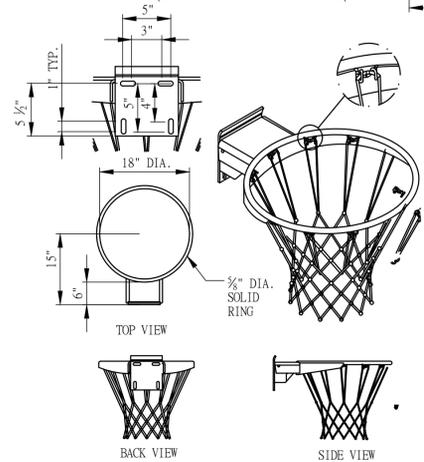
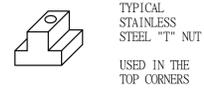
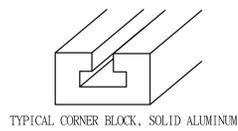
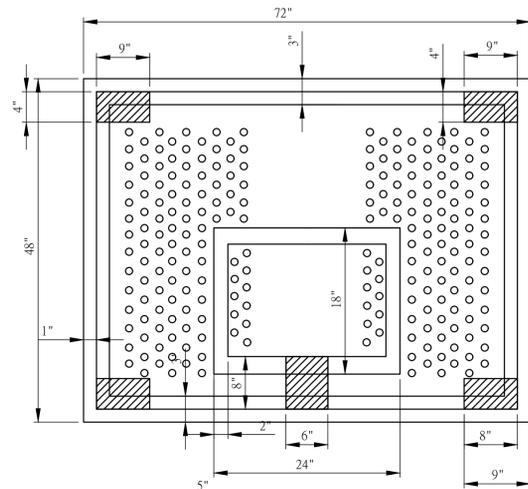
DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE
-----	----------	------

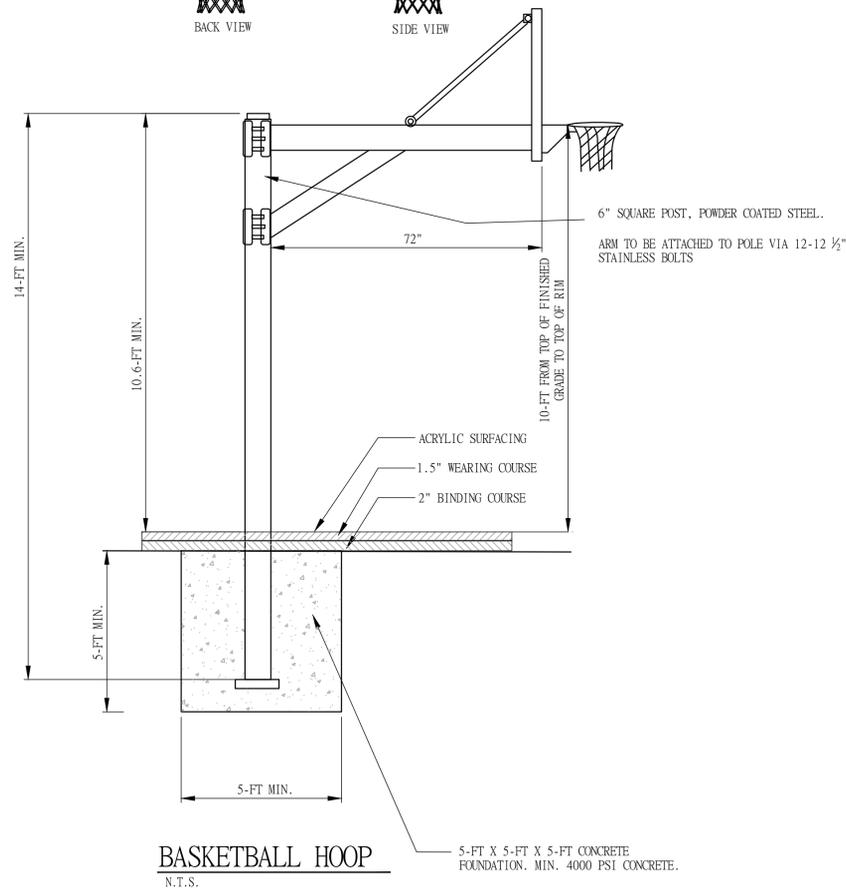
SCALE - AS NOTED  
DATE - 12/12/25

**CONSTRUCTION  
DETAILS V**

**C-12**



**HALF COURT BASKETBALL STRIPING DETAIL**  
N.T.S.



WWW.NESRAENG.COM  
607-306-3772

**NESRA ENGINEERING**

MA - 829 SOUTH WASHINGTON STREET  
RI - NORTH ATTLEBORO  
NH -  
ME - MASSACHUSETTS 02760  
FL -



PROJECT

CORPORAL ARTHUR NELSON  
PLAY LOT RENOVATION  
PROJECT  
FULLER STREET  
EVERETT, MA 02738

CLIENT

CITY OF EVERETT  
484 BROADWAY  
EVERETT, MA 02738

DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE

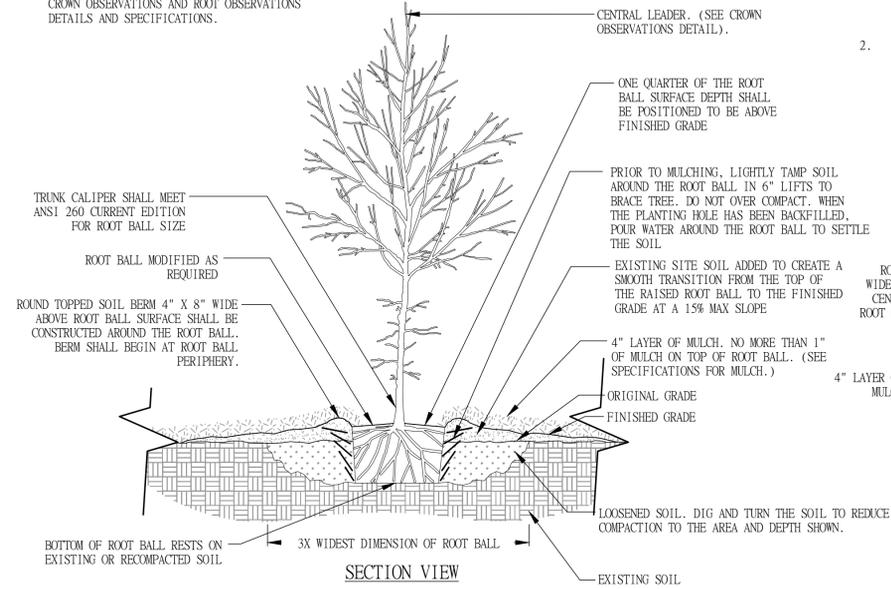
SCALE - AS NOTED  
DATE - 12/12/25

CONSTRUCTION  
DETAILS VI

**C-13**

NOTE:

- TREES SHALL BE OF THE QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.

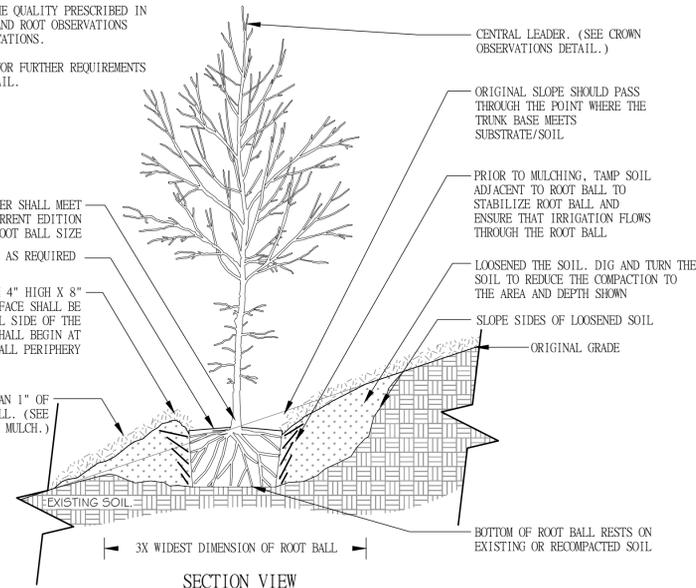


**TREE IN POORLY DRAINED SOIL**

N.T.S.

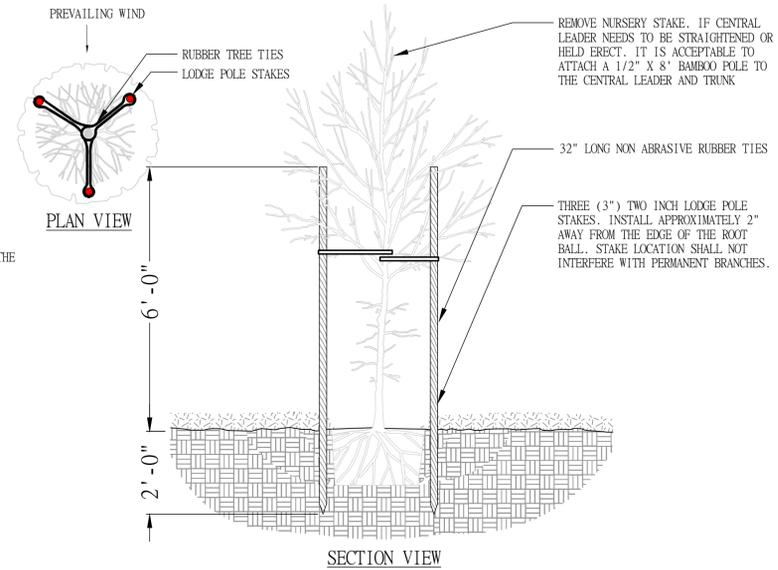
NOTES:

- TREES SHALL BE OF THE QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.



**TREE ON SLOPE 5% (20:1) TO 50% (2:1)**

N.T.S.

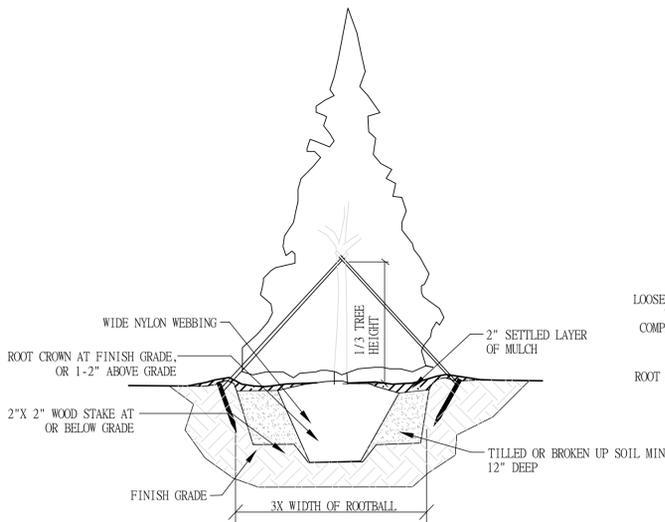


**TREE STAKING - LODGE POLES (3)**

N.T.S.

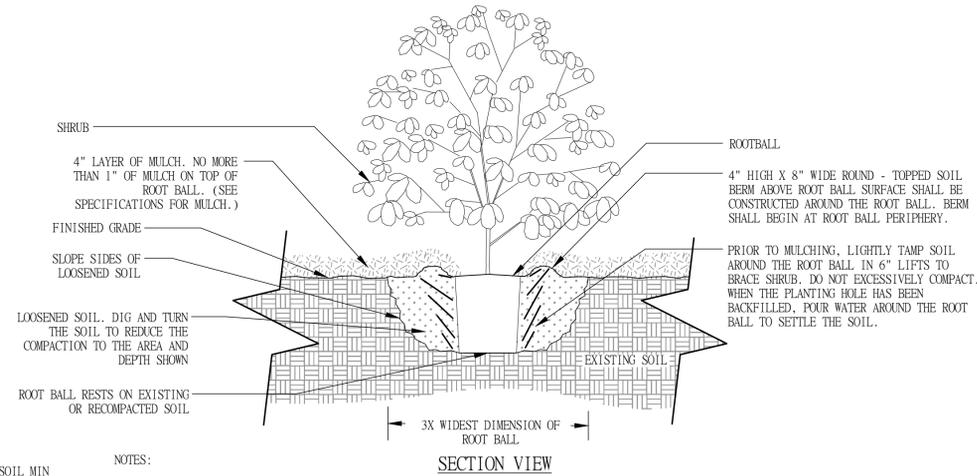
NOTES:

- TREES SHALL BE OF THE QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR FURTHER REQUIREMENT RELATED TO THIS DETAIL.



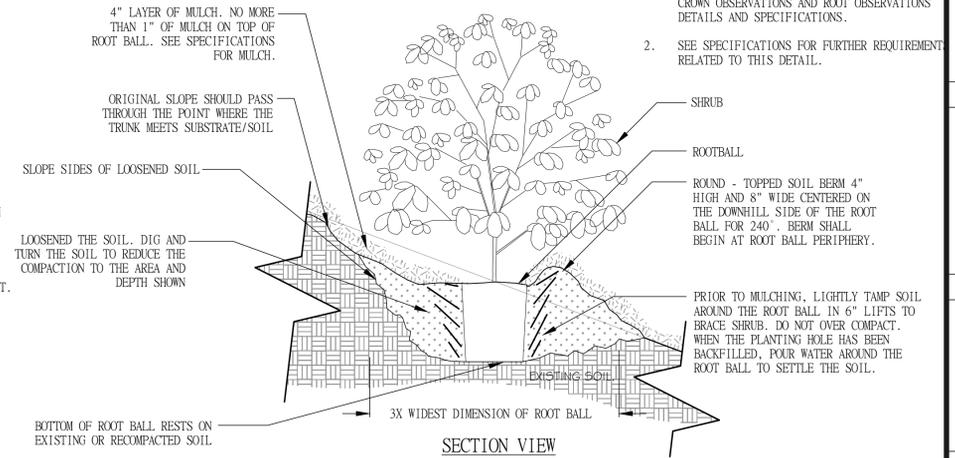
**EVERGREEN TREE PLANTING**

N.T.S.



**SHRUB**

N.T.S.

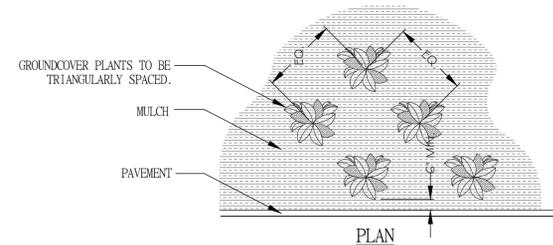


**SHRUB ON SLOPE 5% (20:1) TO 50% (2:1)**

N.T.S.

NOTES:

- ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
- DIG THE PLANTING HOLE A MINIMUM OF 3 x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
- SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
- LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
- SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
- AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
- BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.
- USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
- ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
- APPLY A 2-3" (SETTLED) DEPTH OF BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
- PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH ANSI A300 SPECIFICATIONS.
- REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.



NOTES:

- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
- SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE. HOWEVER, THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL.)
- SETTLE SOIL AROUND ROOT VBALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

**GROUNDCOVER**

N.T.S.

WWW.NESRAENG.COM  
607-306-3772

**NESRA ENGINEERING**

MA RI NH ME VT  
829 SOUTH WASHINGTON STREET  
NORTH ATTLEBORO  
MASSACHUSETTS 02760



PROJECT

CORPORAL ARTHUR NELSON  
PLAY LOT RENOVATION  
PROJECT  
FULLER STREET  
EVERETT, MA 02738

CLIENT

CITY OF EVERETT  
484 BROADWAY  
EVERETT, MA 02738

DESIGNED BY	JEFF B.
REVIEWED BY	ARSEN H.

NO.	REVISION	DATE
-----	----------	------

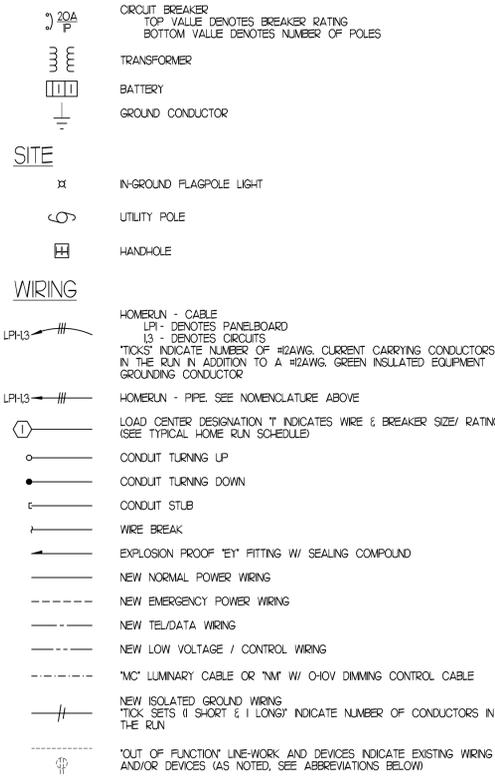
SCALE - AS NOTED  
DATE - 12/12/25

**LANDSCAPE & PLANTING DETAILS**

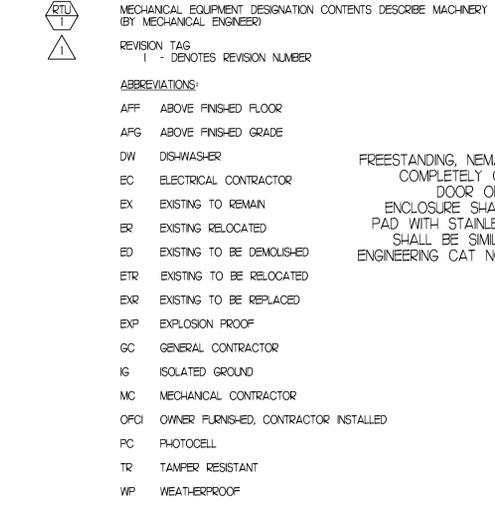
**L-1**

**ELECTRICAL LEGEND:**

**ONE-LINE**



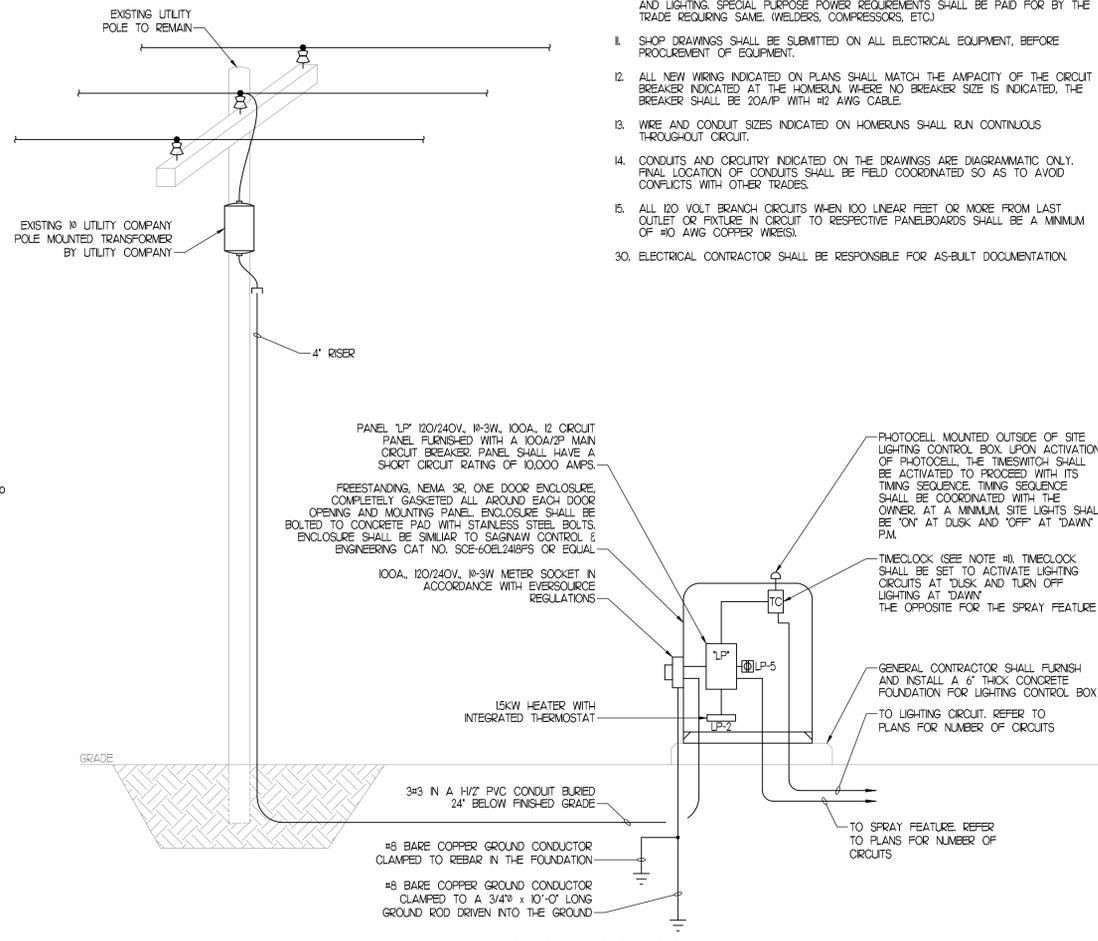
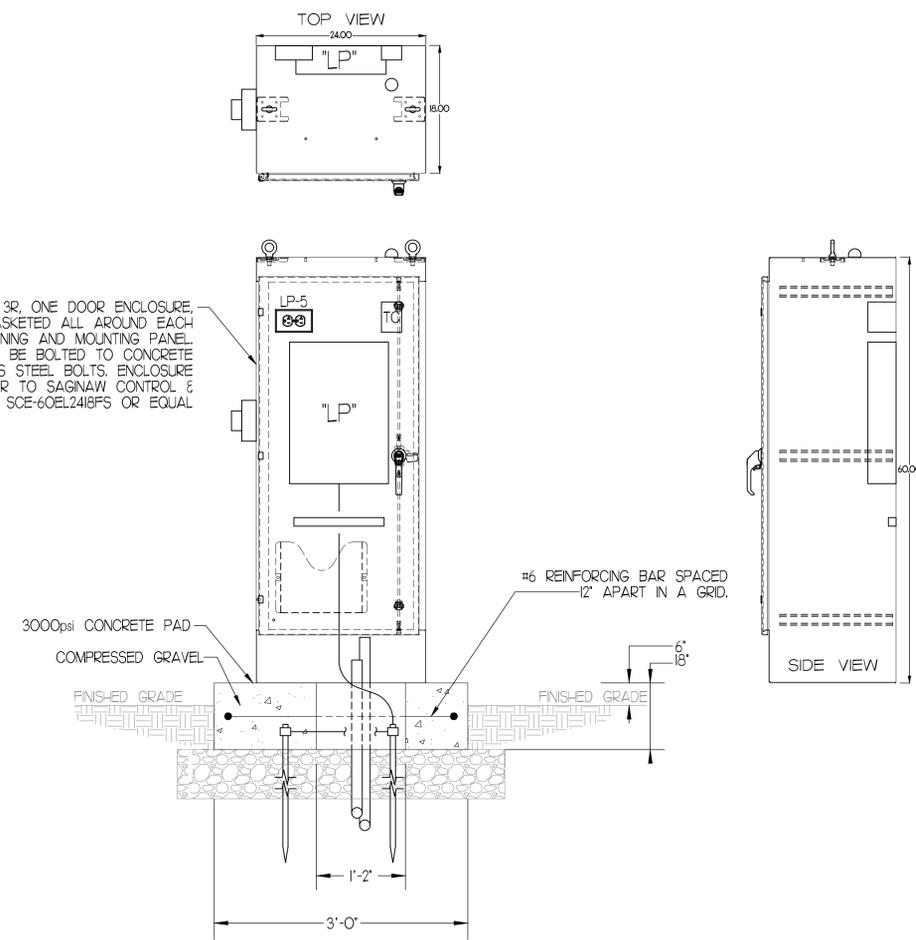
**ABBREVIATIONS & NOTATION**



LOCATION: AS NOTED		MOUNTING: SURFACE		PANEL: "LP"		RATING: 100A		VOLTAGE: 120/240V, 1Ø-3W		VOL. AC	
										TYPE OF MAIN: M.L.O.	
DESCRIPTION	VOLTAMPS		FRAME TRP	POLES	CCTS	POLES	TRP	FRAME	VOLTAMPS		DESCRIPTION
	ØA	ØB							ØA	ØB	
LIGHTING	150		-	20	1	2	1	20	-	1500	HEATER
SPRAY FEATURE		1500	-	20	1	3	4	1	20	-	SPARE
RECEPTACLE	500		-	20	1	5	6	1	20	-	SPARE
SPARE			-	20	1	7	8	1	20	-	SPARE
SPARE			-	20	1	9	10	1	20	-	SPARE
SPARE			-	20	1	11	12	1	20	-	SPARE

**GENERAL NOTES**

- PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR. CODES INCLUDE BUT ARE NOT LIMITED TO:
  - NATIONAL BUILDING AND ELECTRICAL CODES
  - STATE CODES
  - LOCAL TOWN BY-LAWS AND AGENCY REQUIREMENTS.
  - OTHER CODES AS LISTED ON ARCHITECTS CODE REVIEW TABLE WHERE APPLICABLE.
- MATERIALS
  - ALL WIRING SHALL BE COPPER, CONDUCTORS WITH AMPACITIES OF 100 AMPS OR LESS OR CONDUCTORS MARKED AWG #14 THROUGH #1 SHALL BE 60°C. (UNLESS EQUIPMENT IS LISTED FOR HIGHER TEMPERATURES) CONDUCTORS OF HIGHER AMPACITIES OR LARGER GAUGES SHALL BE 75°C. REFER TO 2023 NEC TABLE 310.16 FOR TYPE "NM" CABLE. SEE PARAGRAPH (3) BELOW.
  - ALL CIRCUIT BREAKERS SHALL BE 1 PER POLE "MIN-BREAKERS" OR ANY BREAKER HAVING MORE THAN ONE HANDLE PER PANELBOARD / LOADCENTER POLE SPACE SHALL NOT BE PERMITTED.
  - LIGHTING CIRCUITS WITH CONTROLS MAY BE WIRED WITH "MC LUMINARY CABLE" THAT COMBINES POWER AND CONTROL. CONDUCTORS UNDER ONE ARMORED JACKET. THE CONTROL CONDUCTORS INSULATION SHALL BE VIOLET AND GRAY, TWISTED AND JACKETED.
  - ALL PRODUCTS AND DEVICES SHALL BE NEW AND BEAR THE UNDERWRITERS' LABORATORIES LABEL. DEVICES SHALL BE SPECIFICATION GRADE. COLOR OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT.
- ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH A JUNCTION BOX AND A "WHP". THE WHP SHALL BE NO LONGER THAN 6'-0" IN LENGTH. ALL FIXTURES SHALL BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS.
- PERFORM ALL WORK IN A WORKMANLIKE AND TIMELY MANNER SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSURANCE, PERMITS, FEES AND BACKCHARGES REQUIRED FOR THE PERFORMANCE OF HIS/HER WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH ALL OTHER TRADES. ANY CONFLICT SHALL BE PRESENTED TO THE GENERAL CONTRACTOR AND ENGINEER PRIOR TO INSTALLATION OF WORK.
- PANEL DIRECTORIES SHALL REFLECT THE WORK PERFORMED UNDER THIS CONTRACT. PANELS SHALL BE PROVIDED WITH TYPED DIRECTORIES.
- ALL PRODUCTS SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL WIRING AND EQUIPMENT ARE DEPICTED DIAGRAMMATICALLY. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD AND ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING. SPECIAL PURPOSE POWER REQUIREMENTS SHALL BE PAID FOR BY THE TRADE REQUIRING SAME. (WELDERS, COMPRESSORS, ETC.)
- SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL EQUIPMENT, BEFORE PROCUREMENT OF EQUIPMENT.
- ALL NEW WIRING INDICATED ON PLANS SHALL MATCH THE AMPACITY OF THE CIRCUIT BREAKER INDICATED AT THE HOMERUN. WHERE NO BREAKER SIZE IS INDICATED, THE BREAKER SHALL BE 20A/1P WITH #12 AWG CABLE.
- WIRE AND CONDUIT SIZES INDICATED ON HOMERUNS SHALL RUN CONTINUOUS THROUGHOUT CIRCUIT.
- CONDUITS AND CIRCUITRY INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. FINAL LOCATION OF CONDUITS SHALL BE FIELD COORDINATED SO AS TO AVOID CONFLICTS WITH OTHER TRADES.
- ALL 120 VOLT BRANCH CIRCUITS WHEN 100 LINEAR FEET OR MORE FROM LAST OUTLET OR FIXTURE IN CIRCUIT TO RESPECTIVE PANELBOARDS SHALL BE A MINIMUM OF #10 AWG COPPER WIRES.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT DOCUMENTATION.



WWW.NESRAENGINEERING.COM  
 607-506-3772  
**ENGINEERING**  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760  
 NESRA

**VA** est. 1972  
**VINCENT A. DIORIO, INC.**  
 CONSULTING ENGINEERS  
 89 Access Rd, Suite 18  
 Norwood, MA 02062  
 (781)255-9754 | vadjr@vadeng.com  
 www.vadeng.com

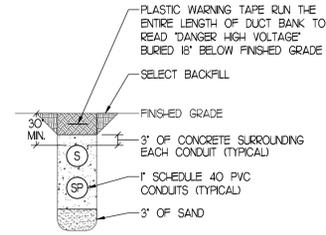
**PROJECT**  
 CORPORAL ARTHUR NELSON  
 PLAY LOT  
  
**CLIENT**  
 CITY OF EVERETT  
 484 BROADWAY  
 EVERETT, MA 02738

DESIGNED BY	ANC
REVIEWED BY	VADJR

NO. REVISION DATE  
 SCALE - AS NOTED  
 DATE - 12/19/2025

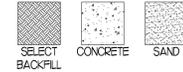
**ELECTRICAL LEGEND, NOTES, DETAILS & ONE-LINE DIAGRAM**

**ESO. 1**

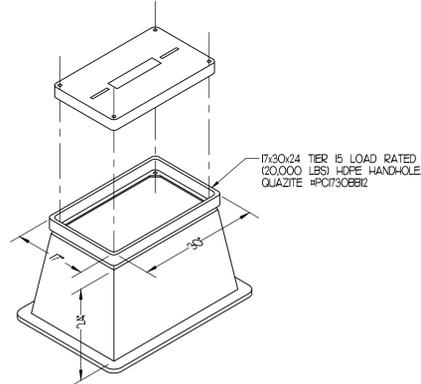


**DUCTBANK SECTION KEY:**

- SEE POWER ONE-LINE FOR ADDITIONAL CONDUITS THAT MAY BE NEEDED IN EACH DUCTBANK.
  - PROVIDE CONDUIT SPACERS (CARLON #SP4W30-2) IN PRIMARY DUCTBANKS AT 6' INTERVALS OR OTHER APPROVED METHODS TO MAINTAIN SPACING AS INDICATED. SEE ALSO (NEC FIGURE 35.6.0(D)(3)).
- "P" 5' SCHED. 80 PVC PRIMARY ELECTRIC CONDUIT (VERIFY CONDUIT DIAMETER WITH UTILITY COMPANY)
  - "S" 4' SCHED. 40 PVC SECONDARY CONDUIT
  - "E" 4' SCHED. 40 PVC EMERGENCY CONDUIT
  - "T" 4' SCHED. 40 PVC TELEPHONE CONDUIT
  - "C" 4' SCHED. 40 PVC CATV CONDUIT
  - "FP" 2-1/2" SCHED. 40 PVC FIRE PUMP SERVICE CONDUIT
  - "SP" 4' SCHED. 40 PVC SPARE CONDUIT



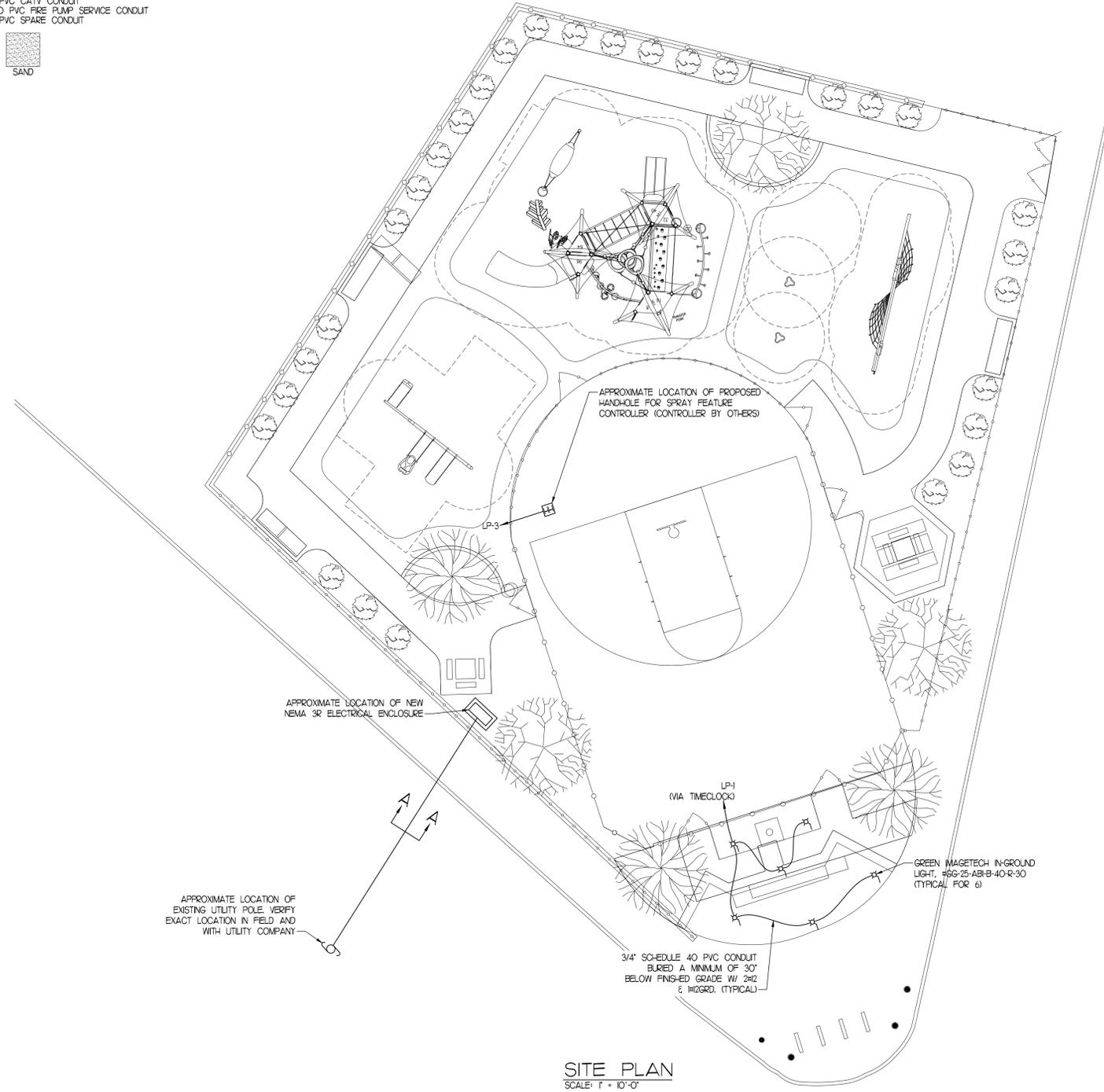
**DUCTBANK SECTION "A-A"**  
NOT TO SCALE



**HANDHOLE**  
SCALE: NOT TO SCALE

**HANDHOLE NOTES:**

- THE LOCATION OF OUTLETS SHOWN ON DRAWINGS IS APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL STUDY THE PLANS IN RELATION TO THE AREAS AND EQUIPMENT SURROUNDING EACH HAND HOLE SO THAT HAND HOLES OR OTHER ELECTRICAL COMPONENTS ARE SYMMETRICALLY LOCATED AND ARE IN LINE WITH ONE ANOTHER FOR EASE OF PULLING CONDUCTORS.
- HAND HOLES OR PULL BOXES, SHOWN ON THE DRAWINGS, THAT INTERFERE WITH THE INSTALLATION OF SUB-SURFACE UTILITIES, STRUCTURAL POLE BASES OR ARCHITECTURAL FEATURES, OR THAT WILL BE INACCESSIBLE DUE TO THE WORK OF OTHER TRADES SHALL BE RELOCATED ACCORDINGLY.
- HAND HOLES, JUNCTION OR PULL BOXES THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS BUT ARE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR, SO THAT THEY DO NOT INTERFERE WITH THE STRUCTURAL OR ARCHITECTURAL FEATURES AND THE INSTALLATION OF MATERIALS BY THE OTHER TRADES.
- ANY REASONABLE CHANGE IN THE LOCATION OF HAND HOLES OR JUNCTION BOXES REQUESTED BY THE ENGINEER, PRIOR TO BEGINNING, SHALL NOT INVOLVE ADDITIONAL EXPENSE TO THE OWNER.
- ALL HAND HOLES SHALL BE INSTALLED SO THAT THE COVER OF EACH HAND HOLE IS AT FINISHED GRADE.
- FEEDERS AND BRANCH CIRCUITS PASSING THROUGH HAND HOLES SHALL BE INDIVIDUALLY GROUPED AND BOUND WITH TIE-RAPS. THE FEEDERS AND BRANCH CIRCUITS IN EACH HAND HOLE SHALL BE PROPERLY TAGGED TO CLEARLY INDICATE THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER AND PANEL DESIGNATION. CABLES SHALL BE SUPPORTED ON SUITABLE RACKS WITHIN THE BOXES AND ARRANGED IN AN ORDERLY MANNER.
- HAND HOLES SHALL, IN GENERAL, BE AS FOLLOWS:
  - HAND HOLES SHALL BE A MINIMUM OF 17" X 30" X 18" DEEP WITH STRAIGHT SIDED AND A GASKETED COVER.
  - HAND HOLES SHALL BE FLUSH WITH GRADE AND COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE.
  - EACH HAND HOLE SHALL BE MADE OF POLYMER CONCRETE AND BE STABLE UNDER FREEZE AND THAW CONDITIONS.
  - EACH HAND HOLE SHALL BE IMPACT RESISTANT AS TESTED PER ASTM D-244 AND BE LOW WATER ABSORPTION, CORROSION RESISTANT, NON-FLAMMABLE AND NON-CONDUCTIVE.
  - EACH HAND HOLE SHALL BE PROVIDED WITH A BOLTED, GASKETED TER 15 COVER. THE HARDWARE SHALL BE STAINLESS STEEL.
  - EACH HAND HOLE COVER SHALL BE EMBOSSED WITH THE WORD "ELECTRICAL".
  - EACH HAND HOLE SHALL BE MANUFACTURED BY QUAZITE #PC1730BBR2 OR EQUAL.
- HAND HOLES SHALL BE PROPERLY SEALED DURING THE COURSE OF CONSTRUCTION TO PREVENT THE ENTRANCE OF DIRT AND FOREIGN MATERIALS.
- EXPOSED, SURFACE MOUNTED OUTLET BOXES OR OUTLET BOXES INSTALLED IN NORMALLY WET LOCATIONS SHALL BE OF THE CAST METAL TYPE WITH THREADED HUBS AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND, CROUSE-HINDS OR RED DOT.
- OUTLET BOXES SHALL NOT BE LESS THAN 1/2 INCHES DEEP UNLESS SHALLOWER BOXES ARE REQUIRED BY STRUCTURAL CONDITIONS AND ARE SPECIFICALLY APPROVED BY THE ENGINEER.
- OUTLET BOXES ON THE EXTERIOR OF ANY STRUCTURE SHALL BE PROVIDED WITH UL LISTED WEATHERPROOF COVERS THAT ALLOW A PLUG TO BE IN PLACE WITH THE COVER IN CLOSED POSITION. COVERS SHALL BE SINGLE GANG, HORIZONTAL DUPLEX, ON-USE® APPLICATION IN ACCORDANCE WITH ARTICLE 406 OF THE NATIONAL ELECTRIC CODE AND AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND.



**SITE PLAN**  
SCALE: 1" = 10'-0"

WWW.NESRAENG.COM  
 607-506-3772  
**NESRA ENGINEERING**  
 829 SOUTH WASHINGTON STREET  
 NORTH ATTLEBORO  
 MASSACHUSETTS 02760

est. 1972  
**VINCENT A. DIORIO, INC.**  
 CONSULTING ENGINEERS  
 89 Access Rd, Suite 18  
 Norwood, MA 02062  
 (781)255-9754 | vadjr@vadeng.com  
 www.vadeng.com

PROJECT	
CORPORAL ARTHUR NELSON PLAY LOT	
CLIENT	
CITY OF EVERETT 484 BROADWAY EVERETT, MA 02738	

DESIGNED BY	ANC
REVIEWED BY	VADJR

NO.	REVISION	DATE

SCALE - AS NOTED  
DATE - 12/19/2025

**ELECTRICAL SITE  
DISTRIBUTION PLAN**

**ES1.0**