

CITY OF PROVIDENCE, RHODE ISLAND

Department: Public Property

RFP Title: TENNIS AND PICKLEBALL COURT RENOVATIONS AT NATHAN BISHOP MIDDLE SCHOOL

Opening Date: 05/19/2025

Addendum #: 3

Issue Date: 05/12/2025

The purpose of this addendum is to provide the updated plans which have been adjusted to reflect the clarifications and answers provided in response to bidder questions.

101 SESSIONS STREET, PROVIDENCE RI NATHAN BISHOP MIDDLE SCHOOL COURTS **COVER SHEET**

PREPARED BY NARRAGANSETT ENGINEERING INC. 10/18/24 PRICING SET REVISED 05/08/25

REVISIONS:

- COURT LAYOUT ,STORMWATER FEATURE, AND ADA ACCESS EDITS PER CLIENT 10/21/24
- GATES AND FENCES, ADA DETAILS, ALTERNATES, AND SPORT COURT DETAILS ADDED PER CLIENT MEETING
- ALTERED BIORETENTION, REPLACED SWALE OUTLET WITH LEVEL SPREADER, COURT COLORS 2-5-25
- NOTED FENCE REUSE OR REMOVAL MORE CLEARLY. NOTED SUBDRAIN **OUTLETS 3-12-25** REVISED PER QUESTIONS
- FROM PRE-BID MEETING

SHEET INDEX:

- SV-100 EXISTING CONDITIONS PLAN
- 2. C-001: DEMOLITION PLAN
- 3. C-100: PROPOSED SITE PLAN
- 4. C-101: NOTES AND DETAILS
- 5. C-102: NOTES AND DETAILS







SHEET TITLE

NATHAN BISHOP MIDDLE SCHOOL FOR DISCUSSION/REVIEW ONLY

Capital Improvement Project Manager Providence City Hall 25 Dorrance Street Providence, RI 02903 T. (401) 680-5329 (office) C. (401) 473-8418 E. dkittridge@providenceri.gov

Nathan Bishop Middle School Tennis and Pickleball Cour 101 Sessions St, Providence, RI 02906 Zone: PS Area: 233,917 sqft.



Nathan Bishop

8/23/24 TR

DRAWING ISSUE: PERMITTING X CONSTRUCTION AS-BUILT ☐ OTHER ONLY PLANS ISSUED

FOR DISCUSSION /REVIEW ONLY

FOR CONSTRUCTION SHALL BE

INTERNAL REVIEW

——LOD/SED —— LOD/SED

BRUSH LINE (APPROXIMATE)

STONE WALL

· · · · · WETLAND LIMIT

(T) TELEPHONE MANHOLE

₩ GATE VALVE

OWSO WATER SHUT OFF

E ELECTRIC BOX (ETC)

FIRE HYDRANT

O UTILITY POLE

DOWNSPOUT

→ BENCHMARK

(D) CURB INLET

— — — EDGE OF PAVEMENT - EXISTING

हर्दे TREE

O DRILL HOLE

GRANITE BOUND

WETLAND FLAG

FLOW ARROW

48" SHGWT SOIL EVALUATION 80" LEDGE

REBAR / STEEL PIPE FOUNI

COASTAL FEATURE FLAG

COASTAL BUFFER POST

No CHECK CAD DESCRIPTION/NOTES

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WATER	5	05/08/25	ADDEN	DUM PER PRE-BID	JM
LIMIT OF DISTURBANCE (LOD)			QUEST	ONS	
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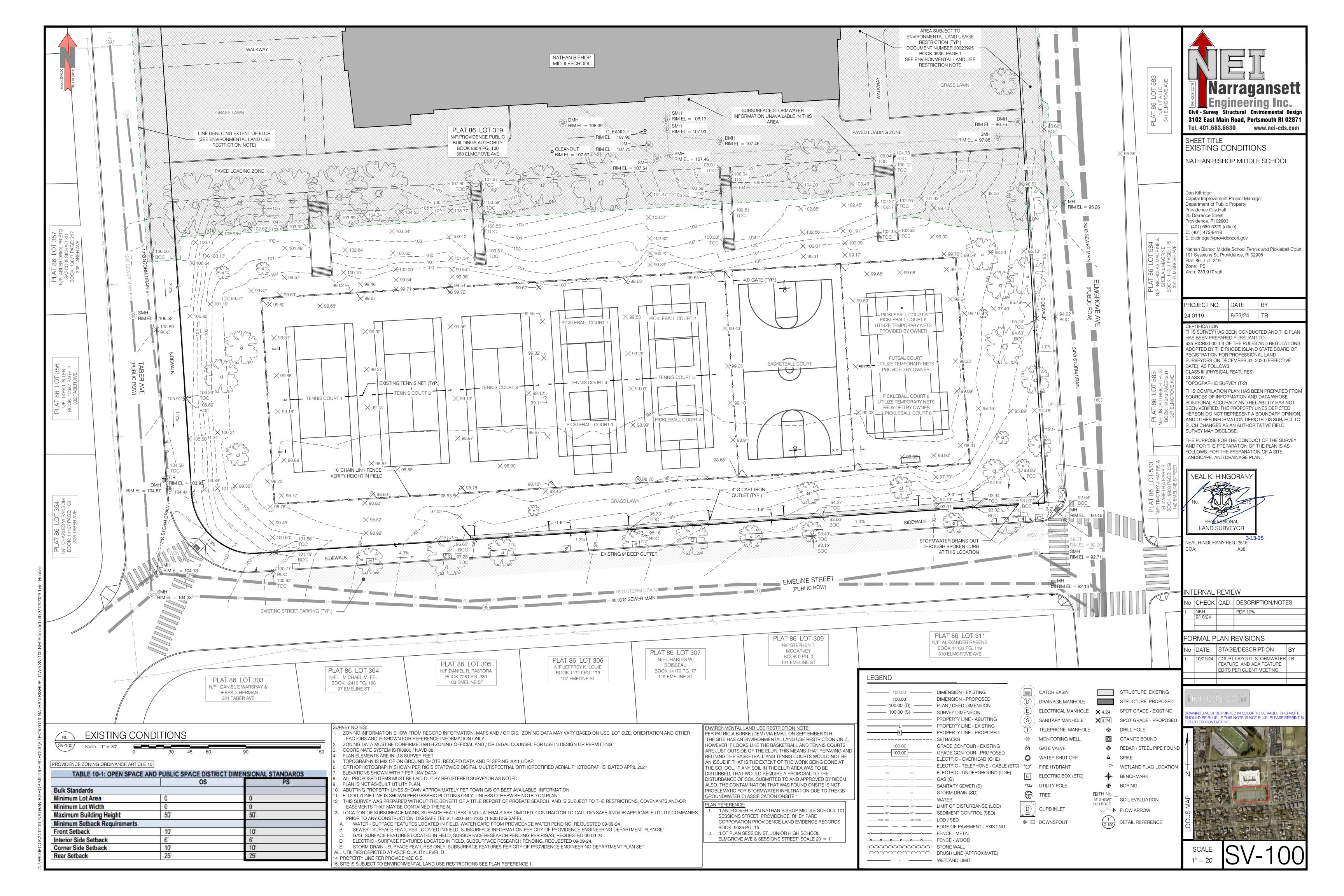
WINGS MUST BE PRINTED IN COLOR TO BE VALID. THIS NOTE

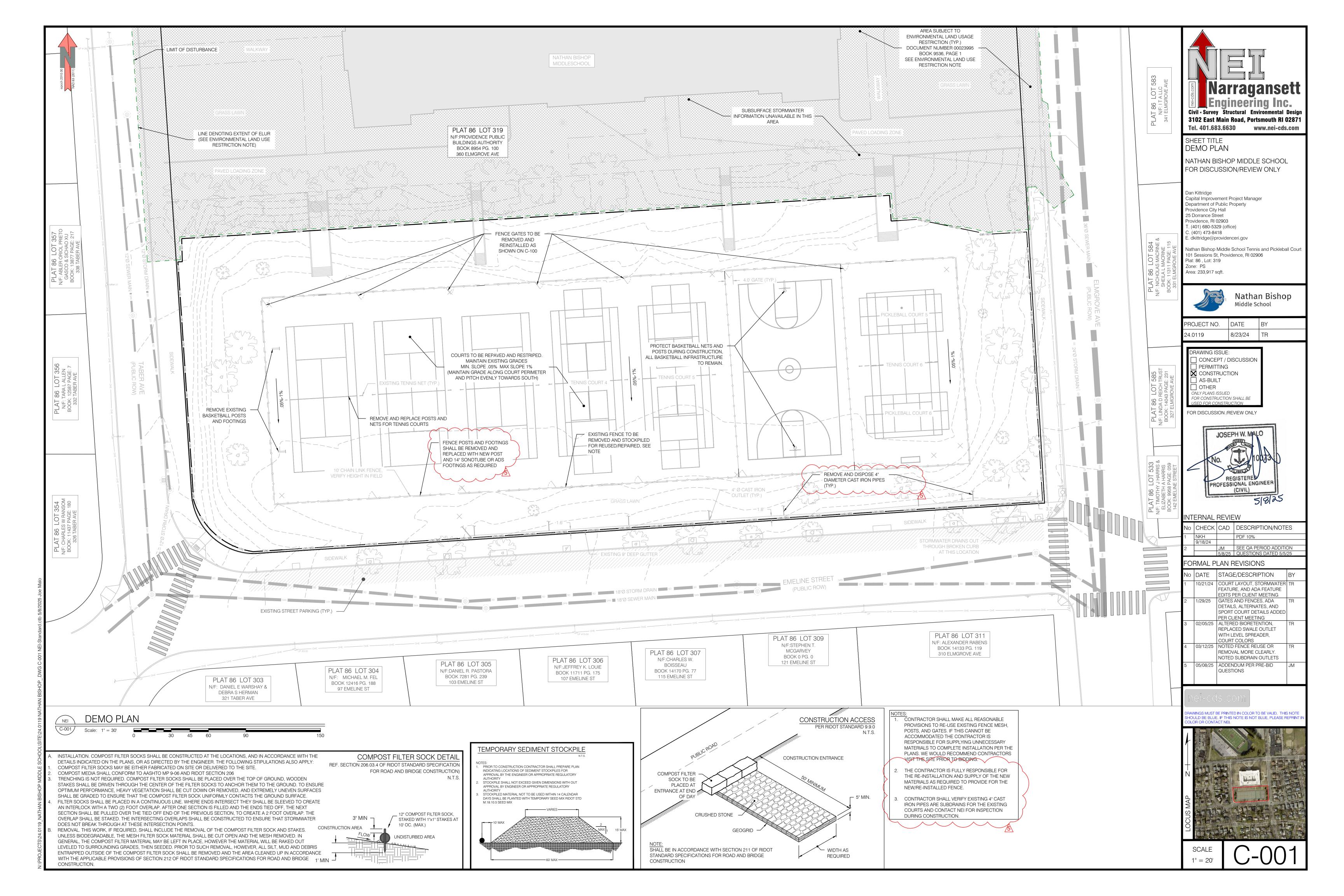
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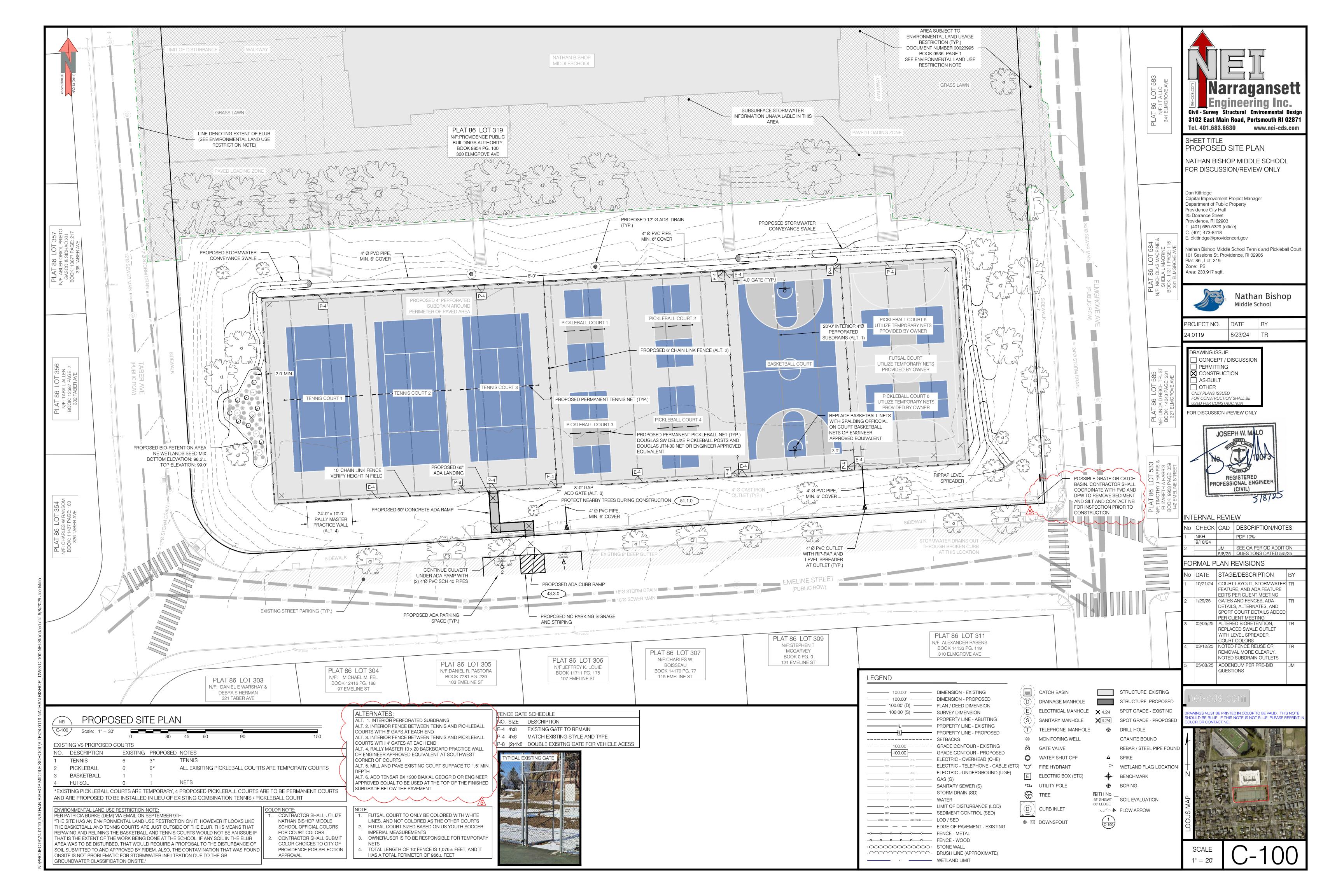
STRUCTURE, EXISTING DRAINAGE MANHOLE STRUCTURE, PROPOSED S) SANITARY MANHOLE X4.24 SPOT GRADE - EXISTING $\stackrel{ ext{(E)}}{}$ ELECTRICAL MANHOLE $\stackrel{ ext{(A)}}{ ext{(4)}}$ SPOT GRADE - PROPOSED

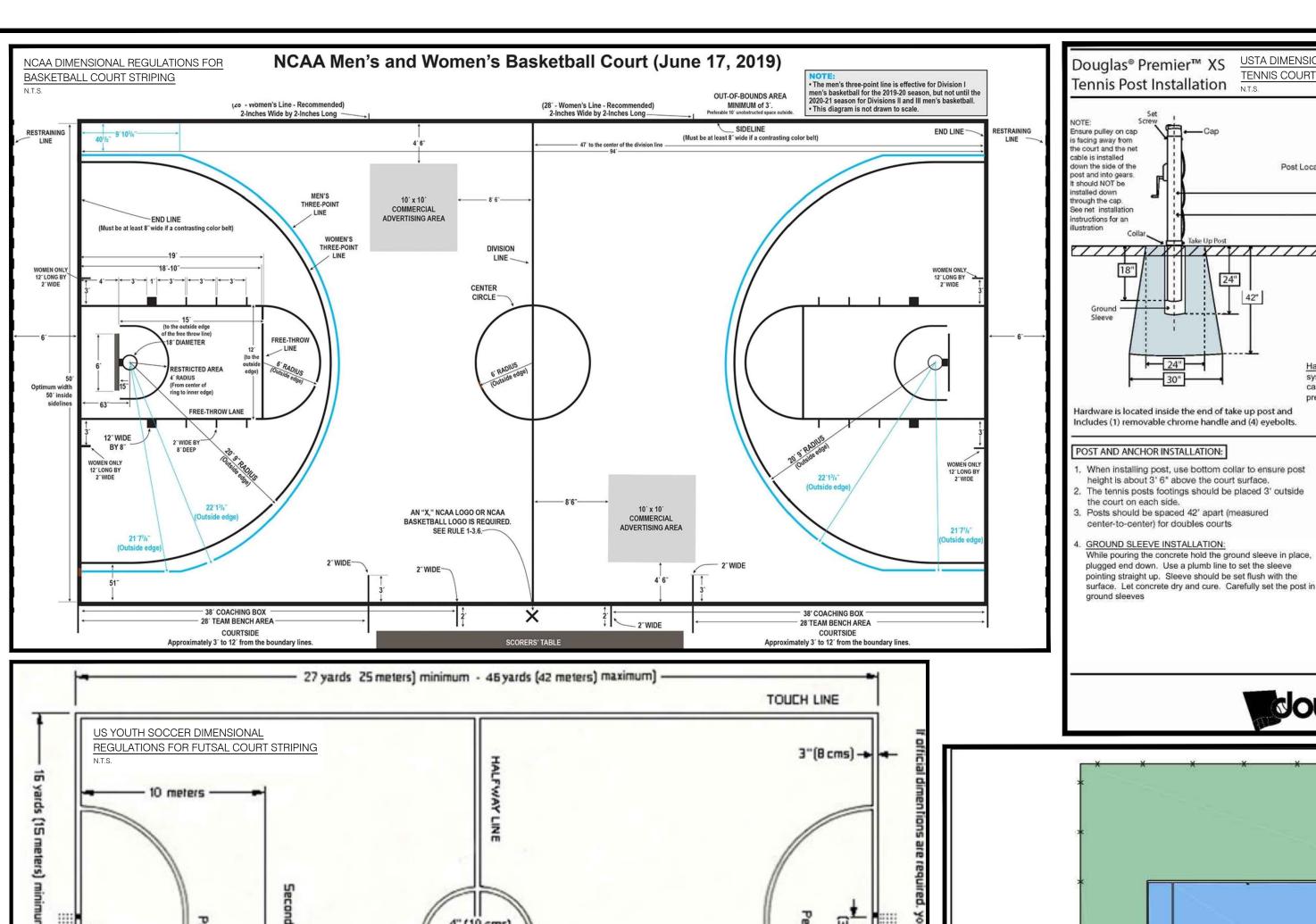












ENNIS COURT STRIPING Tennis Post Installation Ensure pulley on cap s facing away from he court and the net n the side of the Post Locations, Measured Center-to-Center t and into gears 42' - 0" For Doubles 21' - 0" For Doubles Center Anchor Concrete Sport (see notes and Hardware: Internally wound posts with jam-free cable tensioning hardware system with stainless steel gears. Gear housings and caps to be made of die cast zinc. Gear plate shall be flush mounted with a removable handle to NOT TO SCALE Hardware is located inside the end of take up post and Includes (1) removable chrome handle and (4) eyebolts. POST AND ANCHOR INSTALLATION:

USTA DIMENSIONAL REGULATIONS FOR

When installing post, use bottom collar to ensure post 5. Adjust set screw to tighten tennis post cap. Screw on the top and bottom eyebolts to each post.

Toouglas' Sports Equipm

78 FOOT COURT

. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE PLAYING LINES, WITH THE EXCEPTION OF THE CENTER LINES WHICH ARE MEASURED OUT TO CENTER.

THE CENTER SERVICE LINE AND CENTER MARKS SHALL BE :
INCHES WIDE. OTHER LINES SHALL BE BETWEEN 1" AND 2"
WIDE, EXCEPT THE BASE LINES MAY BE UP TO 4 INCHES
WIDE.

Scale: NTS

DISPOSE

BY COLOR SPORTS SURFACE COATING MANUFACTURER

78 FOOT TENNIS

TYPICAL STRIPING PLAN

NOVEMBER 4, 2010

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SURFACE COURSE

CENTER ANCHOR The Center anchor should be 21' away from each post for Doubles a bell shaped hole 9" in diameter at the top and 12" in diameter at the bottom. The hole should be 12" deep. While pouring, hold the anchor in place, with the narrowed end down. Make sure the anchor is flush with the surface and pin is parallel to the net line. Let concrete dry. **CARE & MAINTENANCE**

During the off season, it is best to winterize your court by removing the tennis posts and use sleeve plugs to prevent moisture and dirt from falling in.

Douglas® Premier™ XS Net Installation

to top eyebolt. Next, use the black cord and start by tying the 1. Stretch out the net across the court. 2. Attach the loop on the other end of the cable to the hook half way down the outside of the "dummy" post. 3. Since the Premier is an internally wound post, cut off

Leave some excess in order to allow for several turns around the internal mechanism. Now, insert the plain cable into the hole on the gear. 4. Turning the handle clockwise, crank up cable so center of net is approximately 38". DO NOT OVERWIND.

the loop at one end of the cable for the take up side.

Insert dowels (provided) through the end side tapes. 6. To secure the net with provided lacing cord; You will receive (2) shorter white pieces of cord and (2) longer pieces of black cord. Take one piece of white lacing cord and tie a knotted

loop approximately 2" at one end. Use this white cord to lace

through the (2) grommets on the net headband, as well as the

1st top grommet on the side of the net; tie a knot and secure

top of the black cord to the top eyebolt, and proceed in lacing the cord through the grommets and onto the lacing rods (if available) or around the post. Continue this along the entire side of the net. As you move down the post, keep tension on the lacing cord. Once the lacing cord has been installed through all the grommets, begin at the top and pull on the lacing cord until the net is flush against the net post from top o bottom. Once the net is flush against the net post, tie the

lacing cord at the bottom of the net post to the eyebolt. Cut off any excess lacing cord. Repeat for other post. . Measure the depth of the net in the center and adjust the optional center strap to make the net 36" at the center line of

8. Your installation is now complete. Your net should sit comfortable but somewhat taut between the net posts with a small gap between the net and posts.

Tennis System (Posts, Center Anchor, and Net)

1. Tennis System (Quantity: Two (2) Complete Sets): To be Douglas Premier XS Tennis Posts and Nets, as manufactured by Douglas es, Inc. (www.douglas-sports.com), or approved equal. Manufacturer's Warranty shall pass to the Owner following installation

1.1. Contractor to Submit Manufacturer's Product Data and Shop Drawings, including color and materials information, for review and approval prior to actual materials purchase or field installation work.

1.2. System shall comply with applicable requirements of the American Sports Builders Association (ASBA), United States Tennis Association (USTA), and Local and State Athletic Association requirements.

1.3. Components:

Posts to be 2 1/8" OD Round 8 Gauge Allied's 'Zinc Fio-Coat' Galvanized Steel Posts, with Black Powder Coat Finish, or approved

Internal Wind 30:1 Self Locking Gears Welded Lacing Rods

Die-Cast Zinc Caps and Gear Housings Two (2) each GS-24RD/AL Aluminum Ground Sleeves with Collars, as available through Douglas Industries, Inc., or approved equal One (1) each Douglas Premier XS Net System, including all required Dowels, Cords, Cables, and Center Strap/Anchor required for

installation in accordance with Manufacturer's Installation Specifications One (1) each Douglas Premier XS Center Anchor, as available through Douglas Industries, Inc., or approved equal.

Representative, if required. Re-field stake and label locations as necessary. 3. Tennis Systems shall be installed in accordance with Manufacturer's Installation Specifications for Sleeved Installation, including Aluminum

2. Contractor shall field stake and label locations of all Tennis system Components as shown on the drawings. Adjust as directed by Owner's

All work shall be done by experienced workers.

3.2. Concrete foundations and sleeves shall be installed true and level to proper elevation prior to installation of any finish paving. Patching around the anchored site furnishing will not be permitted.

SAPA REGULATIONS FOR PICKLEBALL COURT NET IMENSIONS AND MATERIALS.

.C. Net Specifications.

- 2.C.1. Material. The net may be made of any mesh fabric material that will not allow a ball to pass through it. 2.C.2. Posts. Net posts should be 22 feet +/- 0.0 Inches (6.71 m) from the inside of one post to the inside of the other post. The maximum diameter of the net
- post should be 3 inches (7.62 cm). 2.C.3. Size. The net length should be at least 21 feet 9 inches (6.63 m) extending from one post to the other

The net height from the bottom edge of the net to

the top should be at least 30 inches. 2.C.4. Edge. The top of the net should be edged with a 2inch (5.08-cm) white tape binding over a cord or cable running through the binding. This binding mus

rest upon the cord or cable.

- 2.C.5. Center Strap and Height. A center strap is recommended for a permanent net and must be placed at the center of the net to enable easy adjustment to the 34-inch (86.36-cm) requirement at center. The top shall be 36 inches (91.44 cm) high at the sidelines.
- 2.C.6. Draping Net. Except on the serve, a replay will occur i the ball goes over the net and hits a draping net on

CADdetails.com



SHEET TITLE NOTES AND DETAILS

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Nathan Bishop Middle School Tennis and Pickleball Court 101 Sessions St, Providence, RI 02906 Plat: 86 , Lot: 319 Zone: PS Area: 233,917 sqft.



Nathan Bishop Middle School

PROJECT NO.

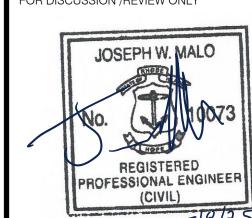
8/23/24 TR

DATE

DRAWING ISSUE: CONCEPT / DISCUSSION PERMITTING CONSTRUCTION AS-BUILT OTHER ONLY PLANS ISSUED

FOR DISCUSSION /REVIEW ONLY

FOR CONSTRUCTION SHALL BE



INTERNAL REVIEW

No CHECK CAD DESCRIPTION/NOTES JM SEE QA PERIOD ADDITION 5/8/25 QUESTIONS DATED 5/5/25

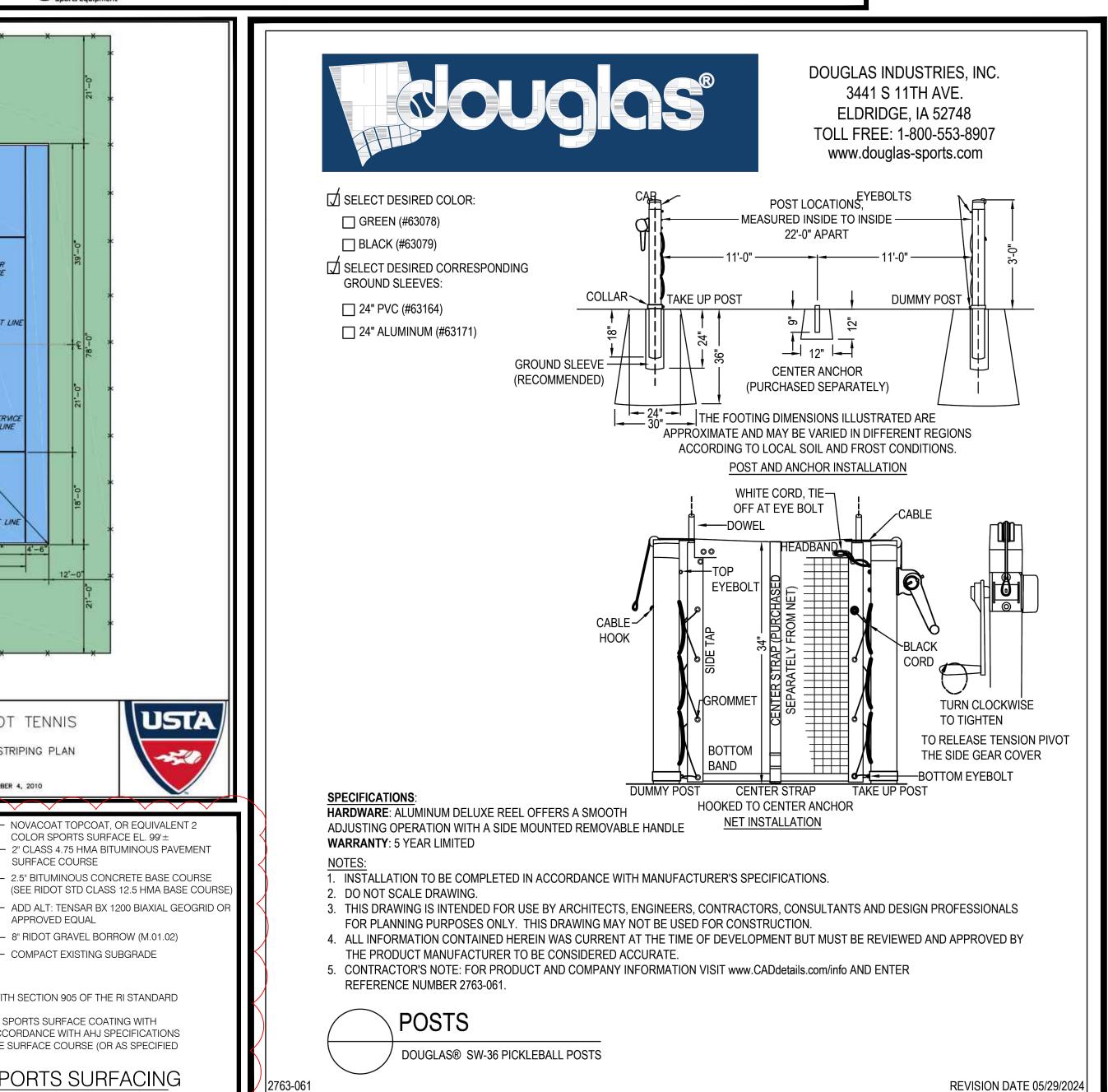
FORMAL PLAN REVISIONS

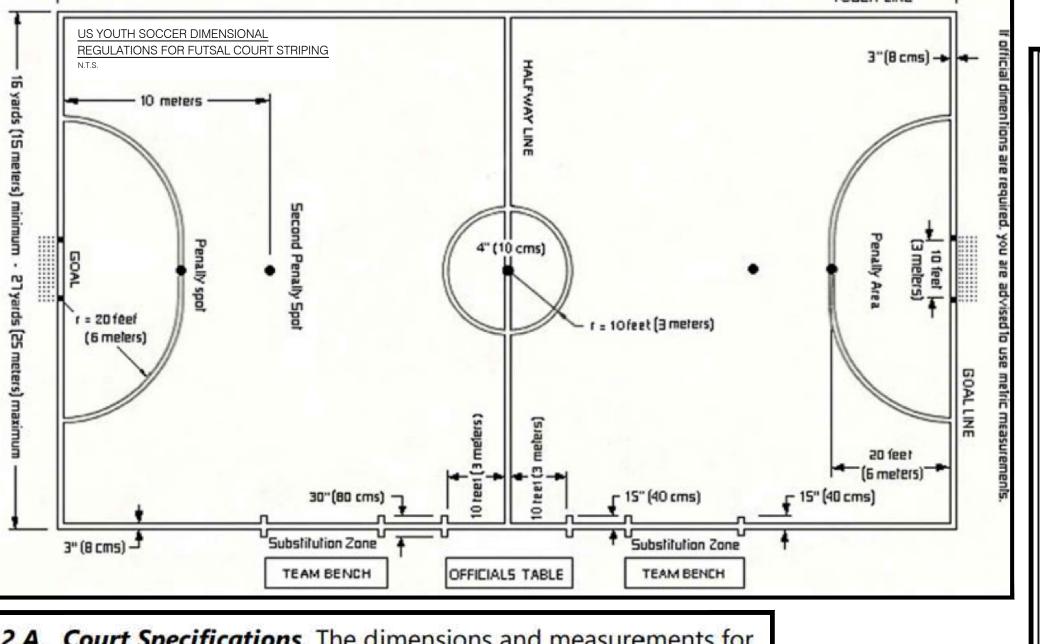
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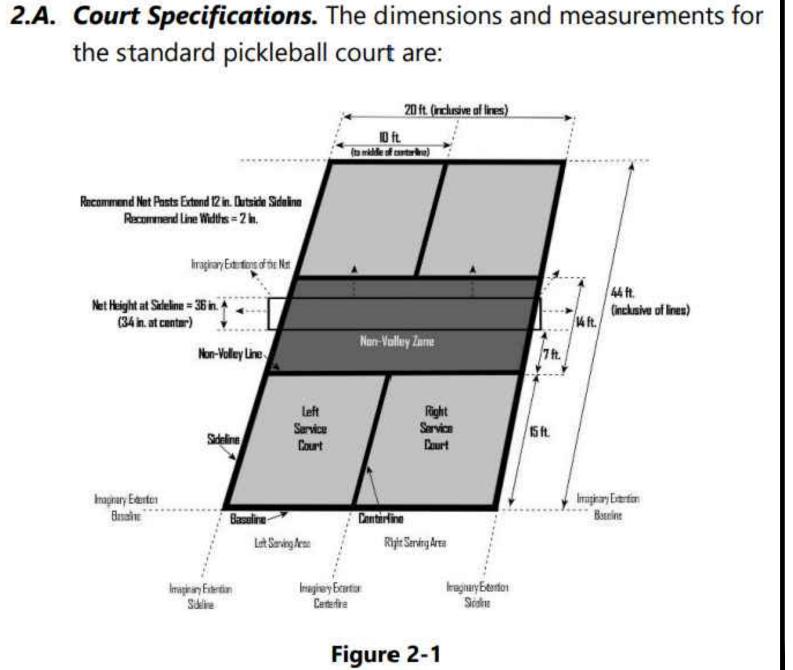
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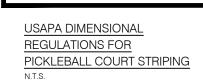


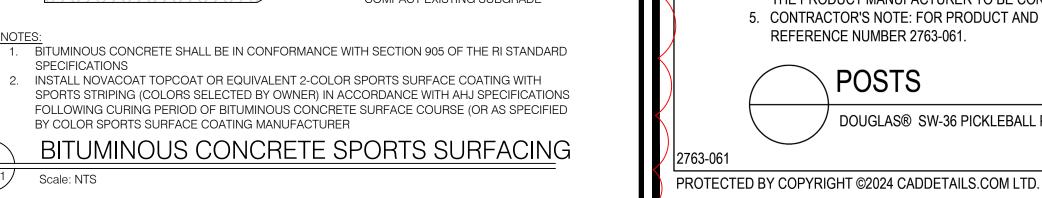
SCALE

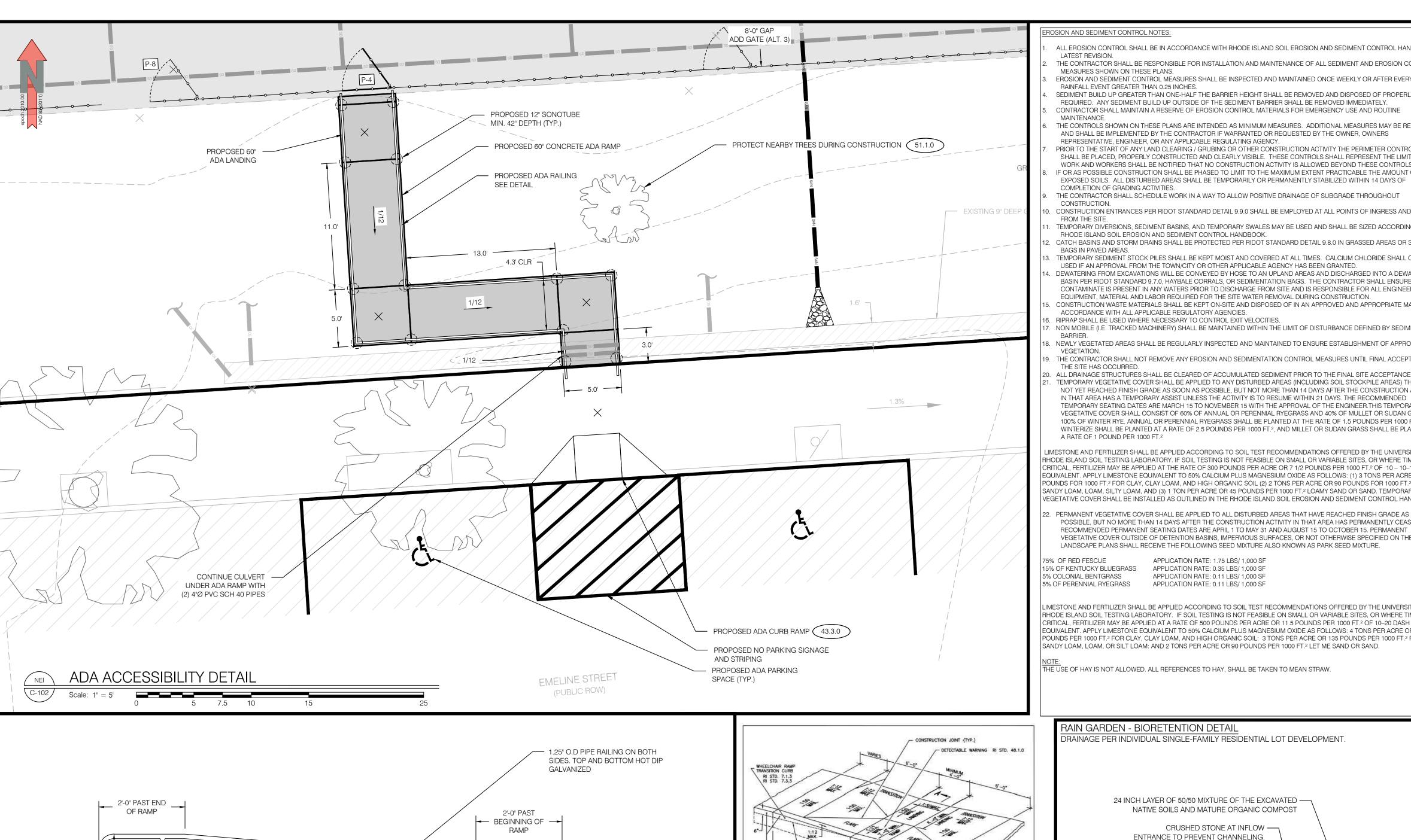












ROSION AND SEDIMENT CONTROL NOTES

ALL EROSION CONTROL SHALL BE IN ACCORDANCE WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST REVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL

MEASURES SHOWN ON THESE PLANS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ONCE WEEKLY OR AFTER EVERY

RAINFALL EVENT GREATER THAN 0.25 INCHES. SEDIMENT BUILD UP GREATER THAN ONE-HALF THE BARRIER HEIGHT SHALL BE REMOVED AND DISPOSED OF PROPERLY AS

REQUIRED. ANY SEDIMENT BUILD UP OUTSIDE OF THE SEDIMENT BARRIER SHALL BE REMOVED IMMEDIATELY. CONTRACTOR SHALL MAINTAIN A RESERVE OF EROSION CONTROL MATERIALS FOR EMERGENCY USE AND ROUTINE

THE CONTROLS SHOWN ON THESE PLANS ARE INTENDED AS MINIMUM MEASURES. ADDITIONAL MEASURES MAY BE REQUIRED AND SHALL BE IMPLEMENTED BY THE CONTRACTOR IF WARRANTED OR REQUESTED BY THE OWNER, OWNERS REPRESENTATIVE, ENGINEER, OR ANY APPLICABLE REGULATING AGENCY. PRIOR TO THE START OF ANY LAND CLEARING / GRUBING OR OTHER CONSTRUCTION ACTIVITY THE PERIMETER CONTROLS

SHALL BE PLACED, PROPERLY CONSTRUCTED AND CLEARLY VISIBLE. THESE CONTROLS SHALL REPRESENT THE LIMITS OF WORK AND WORKERS SHALL BE NOTIFIED THAT NO CONSTRUCTION ACTIVITY IS ALLOWED BEYOND THESE CONTROLS. IF OR AS POSSIBLE CONSTRUCTION SHALL BE PHASED TO LIMIT TO THE MAXIMUM EXTENT PRACTICABLE THE AMOUNT OF

COMPLETION OF GRADING ACTIVITIES. THE CONTRACTOR SHALL SCHEDULE WORK IN A WAY TO ALLOW POSITIVE DRAINAGE OF SUBGRADE THROUGHOUT CONSTRUCTION.

CONSTRUCTION ENTRANCES PER RIDOT STANDARD DETAIL 9.9.0 SHALL BE EMPLOYED AT ALL POINTS OF INGRESS AND EGRESS FROM THE SITE. TEMPORARY DIVERSIONS, SEDIMENT BASINS, AND TEMPORARY SWALES MAY BE USED AND SHALL BE SIZED ACCORDING TO THE

RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. CATCH BASINS AND STORM DRAINS SHALL BE PROTECTED PER RIDOT STANDARD DETAIL 9.8.0 IN GRASSED AREAS OR SEDIMENT BAGS IN PAVED AREAS TEMPORARY SEDIMENT STOCK PILES SHALL BE KEPT MOIST AND COVERED AT ALL TIMES. CALCIUM CHLORIDE SHALL ONLY BE

USED IF AN APPROVAL FROM THE TOWN/CITY OR OTHER APPLICABLE AGENCY HAS BEEN GRANTED. DEWATERING FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREAS AND DISCHARGED INTO A DEWATERING BASIN PER RIDOT STANDARD 9.7.0, HAYBALE CORRALS, OR SEDIMENTATION BAGS. THE CONTRACTOR SHALL ENSURE THAT NO CONTAMINATE IS PRESENT IN ANY WATERS PRIOR TO DISCHARGE FROM SITE AND IS RESPONSIBLE FOR ALL ENGINEERING, EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR THE SITE WATER REMOVAL DURING CONSTRUCTION.

CONSTRUCTION WASTE MATERIALS SHALL BE KEPT ON-SITE AND DISPOSED OF IN AN APPROVED AND APPROPRIATE MANNER IN ACCORDANCE WITH ALL APPLICABLE REGULATORY AGENCIES.

NON MOBILE (I.E. TRACKED MACHINERY) SHALL BE MAINTAINED WITHIN THE LIMIT OF DISTURBANCE DEFINED BY SEDIMENT NEWLY VEGETATED AREAS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE ESTABLISHMENT OF APPROPRIATE VEGETATION

THE CONTRACTOR SHALL NOT REMOVE ANY EROSION AND SEDIMENTATION CONTROL MEASURES UNTIL FINAL ACCEPTANCE OF THE SITE HAS OCCURRED. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO THE FINAL SITE ACCEPTANCE.

TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISH GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS A TEMPORARY ASSIST UNLESS THE ACTIVITY IS TO RESUME WITHIN 21 DAYS. THE RECOMMENDED TEMPORARY SEATING DATES ARE MARCH 15 TO NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER.THIS TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 60% OF ANNUAL OR PERENNIAL RYEGRASS AND 40% OF MULLET OR SUDAN GRASS OR 100% OF WINTER RYE. ANNUAL OR PERENNIAL RYEGRASS SHALL BE PLANTED AT THE RATE OF 1.5 POUNDS PER 1000 FT.2, WINTERIZE SHALL BE PLANTED AT A RATE OF 2.5 POUNDS PER 1000 FT.2, AND MILLET OR SUDAN GRASS SHALL BE PLANTED AT A RATE OF 1 POUND PER 1000 FT.2

LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF RHODE ISLAND SOIL TESTING LABORATORY. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL. FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7 1/2 POUNDS PER 1000 FT.2 OF 10 - 10-10 OR EQUIVALENT. APPLY LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE AS FOLLOWS: (1) 3 TONS PER ACRE OR 135 POUNDS FOR 1000 FT.2 FOR CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL (2) 2 TONS PER ACRE OR 90 POUNDS FOR 1000 FT.2 FOR SANDY LOAM, LOAM, SILTY LOAM, AND (3) 1 TON PER ACRE OR 45 POUNDS PER 1000 FT.2 LOAMY SAND OR SAND. TEMPORARY VEGETATIVE COVER SHALL BE INSTALLED AS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

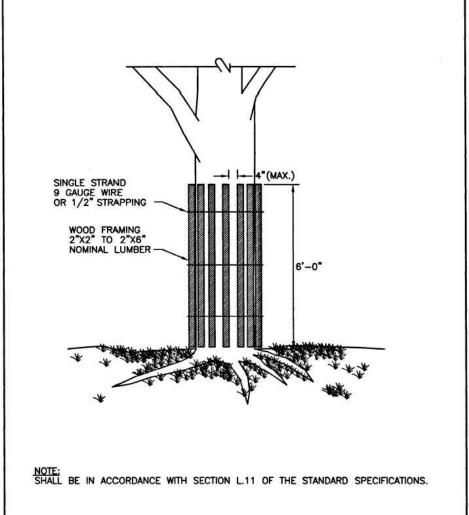
PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISH GRADE AS SOON AS POSSIBLE, BUT NO MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEATING DATES ARE APRIL 1 TO MAY 31 AND AUGUST 15 TO OCTOBER 15. PERMANENT VEGETATIVE COVER OUTSIDE OF DETENTION BASINS, IMPERVIOUS SURFACES, OR NOT OTHERWISE SPECIFIED ON THE LANDSCAPE PLANS SHALL RECEIVE THE FOLLOWING SEED MIXTURE ALSO KNOWN AS PARK SEED MIXTURE.

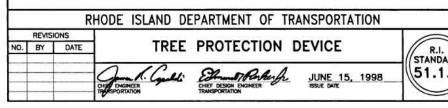
75% OF RED FESCUE 5% COLONIAL BENTGRASS

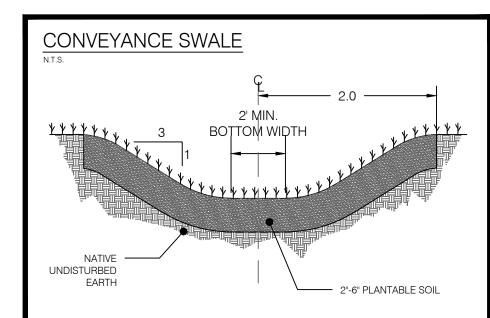
APPLICATION RATE: 1.75 LBS/ 1,000 SF 15% OF KENTUCKY BLUEGRASS APPLICATION RATE: 0.35 LBS/ 1,000 SF APPLICATION RATE: 0.11 LBS/ 1,000 SF APPLICATION RATE: 0.11 LBS/ 1,000 SF

LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF RHODE ISLAND SOIL TESTING LABORATORY. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT A RATE OF 500 POUNDS PER ACRE OR 11.5 POUNDS PER 1000 FT.2 OF 10-20 DASH 20 OR EQUIVALENT. APPLY LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE AS FOLLOWS: 4 TONS PER ACRE OR 180 POUNDS PER 1000 FT.2 FOR CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL: 3 TONS PER ACRE OR 135 POUNDS PER 1000 FT.2 FOR SANDY LOAM, LOAM, OR SILT LOAM: AND 2 TONS PER ACRE OR 90 POUNDS PER 1000 FT.2 LET ME SAND OR SAND.

THE USE OF HAY IS NOT ALLOWED. ALL REFERENCES TO HAY, SHALL BE TAKEN TO MEAN STRAW.







1. FILTER FABRIC SHALL BE PLACE BETWEEN THE

GRAVEL BORROW AND THE CRUSHED STONE



SHEET TITLE NOTES AND DETAILS NATHAN BISHOP MIDDLE SCHOOL FOR DISCUSSION/REVIEW ONLY

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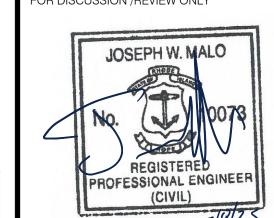
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PROJECT NO. DATE 8/23/24 TR

RAWING ISSUE CONCEPT / DISCUSSION PERMITTING CONSTRUCTION AS-BUILT OTHER ONLY PLANS ISSUED

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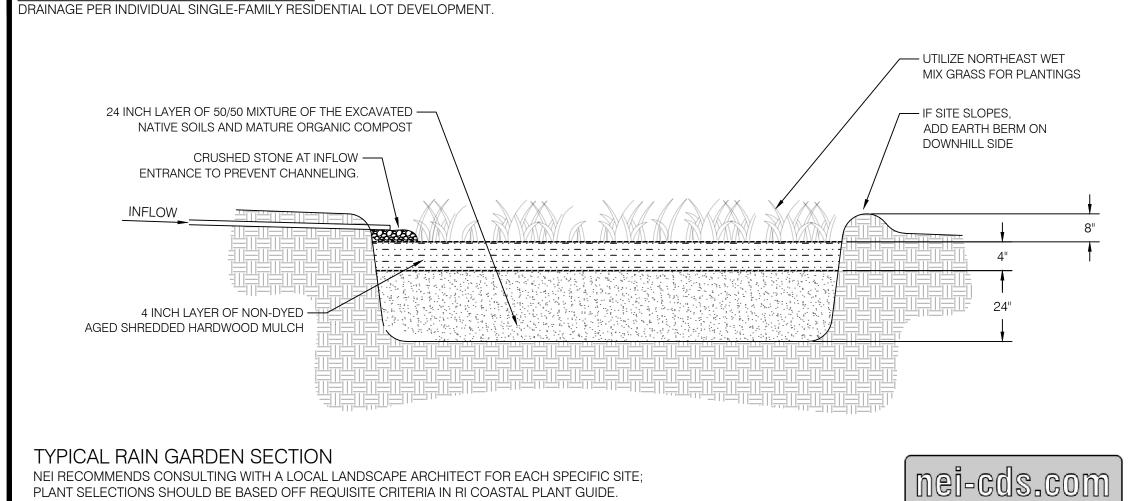
No CHECK CAD DESCRIPTION/NOTES SEE QA PERIOD ADDITION JM SEE QA PERIOD ADDITION 5/8/25 QUESTIONS DATED 5/5/25

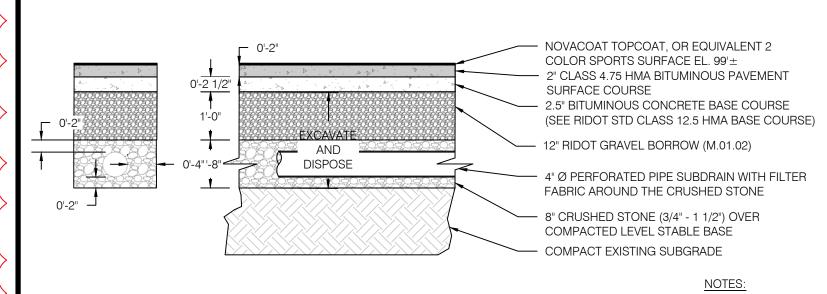
EODMAL DLANIDEVICIONS

\vdash O	RMAL P	LAN REVISIONS	
No	DATE	STAGE/DESCRIPTION	BY
1	10/21/24	COURT LAYOUT, STORMWATER FEATURE, AND ADA FEATURE EDITS PER CLIENT MEETING	TR
2	1/29/25	GATES AND FENCES, ADA DETAILS, ALTERNATES, AND SPORT COURT DETAILS ADDED PER CLIENT MEETING	TR
3	02/05/25	ALTERED BIORETENTION, REPLACED SWALE OUTLET WITH LEVEL SPREADER, COURT COLORS	TR
4	03/12/25	NOTED FENCE REUSE OR REMOVAL MORE CLEARLY. NOTED SUBDRAIN OUTLETS	TR
5	05/08/25	ADDENDUM PER PRE-BID QUESTIONS	JM

INGS MUST BE PRINTED IN COLOR TO BE VALID. THIS NOTE OULD BE BLUE. IF THIS NOTE IS NOT BLUE, PLEASE REPRIN







BITUMINOUS CONCRETE SUBDRAIN

HTTP://WEB.URI.EDU/CELS/CEOC/COASTALPLANTS/COASTALPLANTGUIDE.HTM

WELDED WIRE FABRIC - ASTM A185. PROVIDE #4 x 48" LONG BARS IN SLAB AT ALL INTERIOR CORNERS.

FOOTING TO EXTEND MIN. 3'-6" TO FROST - 6" OF 3/4" WASHED ANGULAR DEPTH CRUSHED STONE OVER LEVEL STABLE BASE (TYP.) COMPACTED SUBGRADE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS AND PROVIDE SUBMITTAL FOR REVIEW TO NEI PRIOR TO FABRICATION FINISH OF HANDRAILS SHALL BE HOT DIPPED GALVANIZED AND PAINTED RAILING SHALL BE FABRICATED 3/4" I.D. RAILING SHALL BE FABRICATED SCH. 40 STEEL PIPE 4. CONTINUE RAILING THROUGH LANDINGS VERIFY EXISTING SLOPES IN FIELD PRIOR TO CONSTRUCTION

— 1.25" O.D. POST @8'-0" O.C. MAX. —

0'-10" MIN. EMBEDMENT WITH

10" LONG PIPE SLEEVES WITH

CONCRETE ADHESIVE

2'-0"

ALL CONCRETE WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE LATEST EDITION OF ACI-318. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE SHALL ACHIEVE A MINIMUM 28 DAY DESIGN STRENGTH AS FOLLOWS:FOOTINGS, WALLS, INTERIOR SLABS-ON-GRADE, AND OTHER CONCRETE NOT OTHERWISE SPECIFIED -3000 PSI. EXTERIOR SLABS EXPOSED TO WEATHER - 4000 PSI AIR ENTRAINED. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE, SLUMP AT THE POINT OF DISCHARGE FROM THE READY-MIX TRUCK SHALL BE 3-5". REINFORCING STEEL: TYPICAL - ASTM A615, GRADE 60. FIELD BENT - ASTM A615, GRADE 40

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.

2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.

3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.

4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.

5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.

6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1-50 EXCEPT WITHIN THE RAMP AREA.

7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4"-0" SHALL BE MAINTAINED.

8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEPER THAN 1:12 HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.

9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18"-0").

10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.

11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.

12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE ROBIUS POINT WHEN POSSIBLE.

13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3"-0" (GREATER LENGTHS PREFERRED).

14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAD FOR UNDER COST OF THE RISTANDARD SPECIFICATIONS

16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

4'-0" MIN.

-GRAVEL BORROW

CONCRETE 4" AND 8" STD. 43.1.0

DETECTABLE WARNING RI STD. 48.1.0

JUNE 15, 1998 43.3.0

1:12 MAX.

1/12 CONCRETE RAMP

— 6" CONCRETE

STANDARD CURBI SECTIONS OR WHEELCHAIR RAMP TRANSITION CURB AS REQUIRED

ALTERNATE CONNECTION: KEE KLAMPS OR EQUAL 8" 1'-4"