

# PORTSMOUTH, NEW HAMPSHIRE

## PLANS FOR THE CONSTRUCTION OF SOUTH MILL POND TENNIS COURTS



SOUTH MILL POND COURTS

Rockland Street Portsmouth, New Hampshire

> **APRIL**, 2016 Prepared By

Weston&Sampson



### PLANS FOR CONSTRUCTION

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### **GENERAL NOTES**

- PROPERTY LINES, SITE SURVEY AND TOPOGRAPHICAL INFORMATION BASED ON THE GROUND SURVEY PERFORMED BY DOUCET SURVEY JANUARY 21, 2015. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE (2800) NAD83 (CORS96). VERTICAL DATUM IS BASED ON NAVD88.
- 2. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- 3. LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- 4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
- 5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE CITY OF PORTSMOUTH.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
- 7. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
- 8. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- 9. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
- 10. ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND SALVAGE (R&S)", OR REMOVE, RELOCATE, SALVAGE, (R.R&S).
- 11. ALL KNOWN EXISTING STATE, COUNTY AND CITY LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.
- 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
- 13. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- 14. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE
- 15. EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
- 16. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT OR AS NOTED ON THE PLANS.
- 17. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER REPRESENTATIVE.
- 18. THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.
- 19. ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. REMOVAL ACTIVITIES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE CITY. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MUST MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED. ON-SITE FILL MATERIALS, WHICH DO NOT CONFORM TO THE SPECIFICATIONS, SHALL NOT BE USED BELOW ANY STRUCTURES. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.
- 20. CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD WITH A NEW HAMPSHIRE REGISTERED PROFESSIONAL LAND SURVEYOR. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE ENGINEER.
- 21. NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
- 22. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPEDE TRAVEL WAYS.
- 23. ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID AND NOTIFY OWNER/ ENGINEER.
- 24. ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.
- 25. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
- 26. THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.

- 27. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
- 28. CONTRACTOR SHALL DEWATER AS NECESSARY TO PERFORM THE PROPOSED WORK. CONTRACTOR SHALL BE AWARE OF PERCHED GROUNDWATER.
- 29. THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE LANDSCAPE ARCHITECT.
- 30. DEEP SUMP CATCH BASINS AND STORMWATER BASIN SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.
- 31. HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 6
- 32. ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE CITY.
- 33. WORK ON SATURDAYS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE
- 34. NO TRUCKS LEFT IDLING ON CITY STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

#### **EROSION AND SEDIMENT CONTROL NOTES**

- . ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- 3. CONTRACTOR SHALL MEET ALL OF THE STATE OF NEW HAMPSHIRE D.E.P. AND THE CITY OF PORTSMOUTH WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
- 4. EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
- 5. ALL CATCH BASINS AND DRAIN GRATES WITHIN LIMIT OF CONTRACT SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.
- 6. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING & DRAINAGE PLANS, NOTES. DETAILS AND SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS REQUIRED BY OWNER.
- 8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED AND CONTRACTOR MUST PROVIDE A TIRE WASH TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS. TIRE WASH TO USED UPON EXITING THE SITE.

### **DEMOLITION & SITE PREPARATION NOTES**

- 1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- 2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
- 3. UNLESS SPECIFICALLY NOTED TO BE REMOVED / SALVAGED (R&S), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.
- 4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- 5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- 6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
- 7. 'STRIP AND REMOVE TURF' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
- 8. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 9. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 10. LOAM / TOP SOIL DESIGNATED FOR REUSE AS GENERAL FILL SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.
- 11. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN, CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

### LAYOUT & MATERIALS NOTES

- 1. REFER TO EXISTING CONDITIONS PLANS FOR SURVEY INFORMATION (SHEET L1.01).
- 2. COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
- 3. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OTHERS" OR "UNDER SEPARATE CONTRACT".
- 4. TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY. SOME ITEMS ARE "NOT IN CONTRACT" (NIC) AND SHOWN FOR REFERENCE ONLY.
- 5. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 6. THE LAYOUT OF ALL NEW PATHWAYS / WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE NEW HAMPSHIRE RULES AND REGULATIONS FOR HANDICAP ACCESS CMR 521, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.
- 7. ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
- 8. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER. ALL LAYOUT SHALL BE PERFORMED BY A NH. REGISTERED PROFESSIONAL LAND SURVEYOR.
- 9. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES. ALL BITUMINOUS CONCRETE SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
- 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND
- 12. THE DEPTH OF LOAM BORROW FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED AND MULCH UNLESS OTHERWISE NOTED
- 13. REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.
- 14. SURVEY CONTROL POINTS AND COORDINATES ARE INDICATED ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OR CREATE HIS OWN PROTECTED CONTROL POINTS FROM THIS

## THE CONTRACTOR TO PROTECT OR CREATE HIS OWN PROTECTED CONTROL POINTS FROM THIS INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL LAYOUT POINTS ARE CONSISTENT WITH CONTROL INFORMATION. RESETTING OF DAMAGED OR MISSING LAYOUT MARKERS AS NECESSARY IS AT NO ADDITIONAL COST TO THE OWNER.

### **GRADING, UTILITIES & DRAINAGE NOTES**

- ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE AND/OR SEWER SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF PORTSMOUTH DPW.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 3. ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACES MEET EXISTING SURFACES, ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
- 4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE (1.5% 2.0% FOR WALKWAYS)(1.0% MAX FOR PLAY AREAS) AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
- 5. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- 6. MINIMUM CROSS SLOPE ON ALL WALKWAYS WILL BE 1:100 OR 1.5% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.
- 7. ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES. ALL UTILITY GRATES WITHIN PLAYING FIELDS OR INDICATED TO BE "BURIED" SHALL BE 4" BELOW FINISH GRADE AND COVERED WITH FINISH MATERIAL INDICATED ON PLANS.
- 8. THE CONTRACTOR SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AS NEEDED AND AT THE END OF THE PROJECT.
- 9. EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN 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 COST TO THE OWNER.
- 10. WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- 11. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- 12. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- 13. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR SPECIFIC EXCAVATION AND FILLING PROCEDURES.
- 14. FOR STRUCTURE REMODELING (REMOD), CONSTRUCTION METHODS SHALL FOLLOW NEW HAMPSHIRE DOT STANDARD SPEC. LATEST EDITION.

#### ABBREVIATIONS

### GENERAL

(OR EX.)

H.C.

EOP

CTE

**PROT** 

**PROP** PROPOSED ADJ ADJUST BIT. CONC. **BITUMINOUS CONCRETE** CEM. CONC. CEMENT CONCRETE BASELINE N.T.S. NOT TO SCALE BVCL BLACK VINYL CHAIN LINK B.M. BENCH MARK ABAN **ABANDON** MB MAIL BOX GRAN. CURB **GRANITE CURB** EXIST.

FDN **FOUNDATION** F.L. FLOW LINE (OR F) PROPERTY LINE **PVMT** PAVEMENT PAVED WATERWAY P.W.W. RC REINFORCED CONCRETE M.H.B. NEW HAMPSHIRE HIGHWAY BOUND REM REMOVE

EXISTING

**REMOD** REMODEL RET RETAIN R.O.W. RIGHT-OF-WAY R&S REMOVE AND SALVAGE R,R&S REMOVE, RELOCATED AND SALVAGE R&S REMOVE AND STACK R&D REMOVE AND DISPOSE SB STONE BOUND NIC NOT IN CONTRACT H.C HANDICAP **WCR** WHEELCHAIR RAMP

FINISHED FLOOR **HOT MIX ASPHALT** G.C. GENERAL CONTRACTOR E.C. **ELECTRICAL CONTRACTOR** P.C. PLUMBING CONTRACTOR **SWEL** SOLID WHITE EDGE LINE **BWLL BROKEN WHITE LANE LINE** SYEL SOLID YELLOW EDGE LINE SB/DH STONE BOUND/ DRILL HOLE CHAIN LINK FENCE TEMP. **TEMPORARY** TYP. **TYPICAL** EQ **EQUIPMENT** 

RL ROOF LEADER
L.O.W. LIMIT OF WORK
VIF VERIFY IN FIELD
BVW BORDERING VEGETATED WETLAND

HANDICAP

PROTECT

**EDGE OF PAVEMENT** 

CONNECT TO EXISTING

### <u>UTILITIES</u>

**GUTTER INLET W/ CURB INLET** CATCH BASIN W/ CURB INLET CBCI CATCH BASIN C.I.T. CHANGE IN TYPE F&G FRAME AND GRATE F&C FRAME AND COVER **CURB INLET** CIP CAST IRON PIPE CMP CORRUGATED METAL PIPE DRAIN INLET **GUTTER INLET ACCM PIPE** ASPHALT COATED CORRUGATED METAL PIPE HYD HYDRANT

INV. ELEV. INVERT ELEVATION UTILITY POLE SMH **SEWER MANHOLE** WG WATER GATE **DOWN SPOUT** DS HDPE HIGH DENSITY POLYETHYLENE PIPE PVC POLYVINYL CHLORIDE RCP REINFORCED CONCRETE PIPE DMH DRAIN MANHOLE LEACHING BASIN LB LG LEACHING GALLEY CAST IRON ocs **OUTLET CONTROL STRUCTURE** 

OGT OIL AND GRIT TRAP
VC VITRIFIED CLAY PIPE
LP LIGHT POLE
OHW OVERHEAD WIRE
UPLP UTILITY POLE WITH LIGHT
SWTU STORM WATER TREATMENT UNIT
HH HANDHOLE

GW

CO CLEANOUT
LC LEACHING CHAMBER
GV GATE VALVE
CU CONNECTION UNKNOWN

### ALIGNMENT/GRADING

**GARAGE WASTE** 

**BOTTOM OF WALL** 

BOTTOM OF CURB POINT OF INTERSECTION POINT OF CURVATURE POINT OF TANGENCY POINT OF REVERSE CURVATURE PCC POINT OF COMPOUND CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL CURVATURE POINT OF VERTICAL TANGENCY **ELEVATION** CC CENTER OF CURVE HIGH POINT LOW POINT RADIUS OF CURVATURE STA STATION S.S.D. STOPPING SIGHT DISTANCE TOP OF CURB

TOP OF WALL

SOUTH MILL POND TENNIS COURTS

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Consultants:

North:

Revisions:

Rev Date Description

PLANS FOR CONSTRUCTION

e: 04.07.2016

CCC/ EJA

BK

MSM

Drawing Title:

Drawn By:

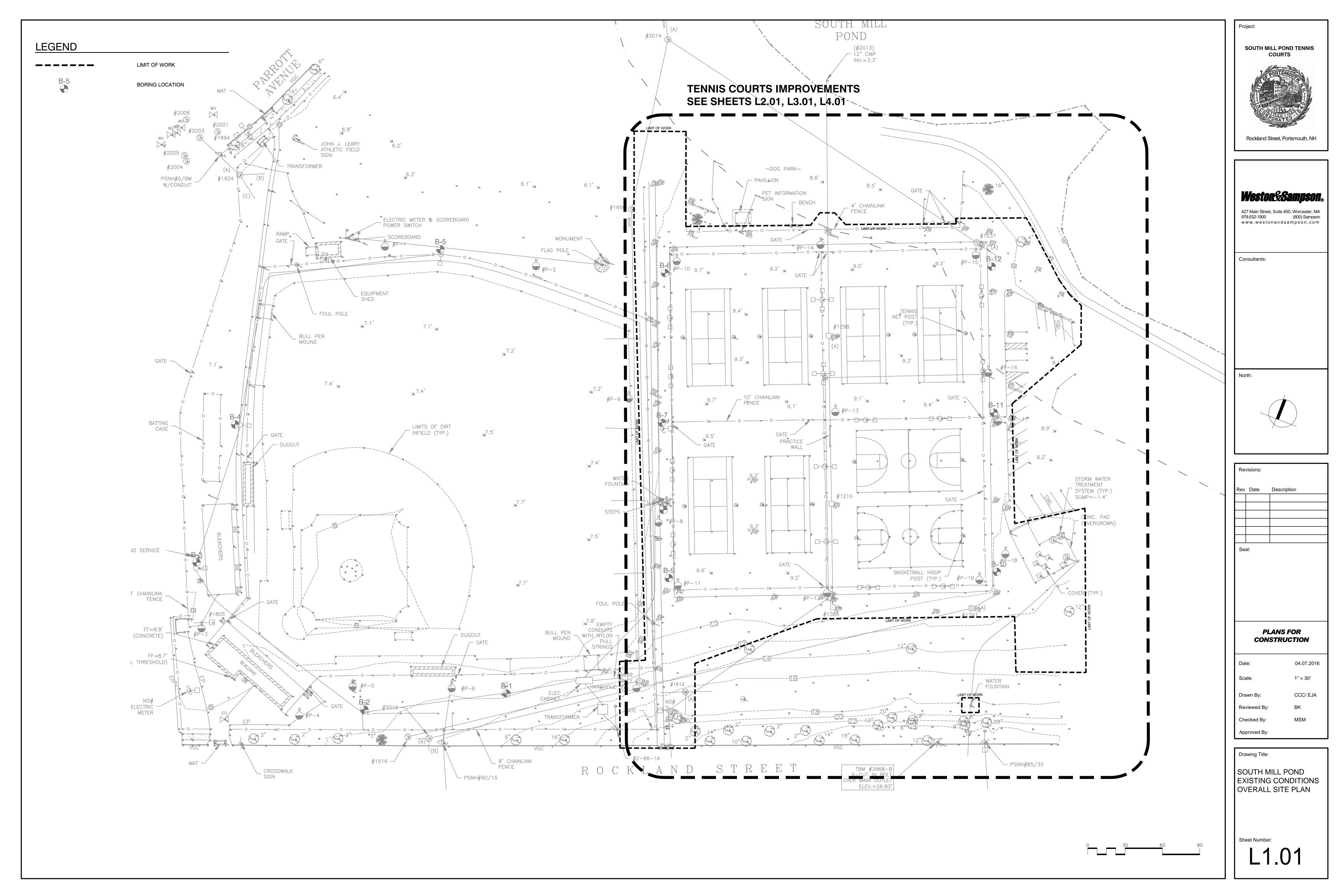
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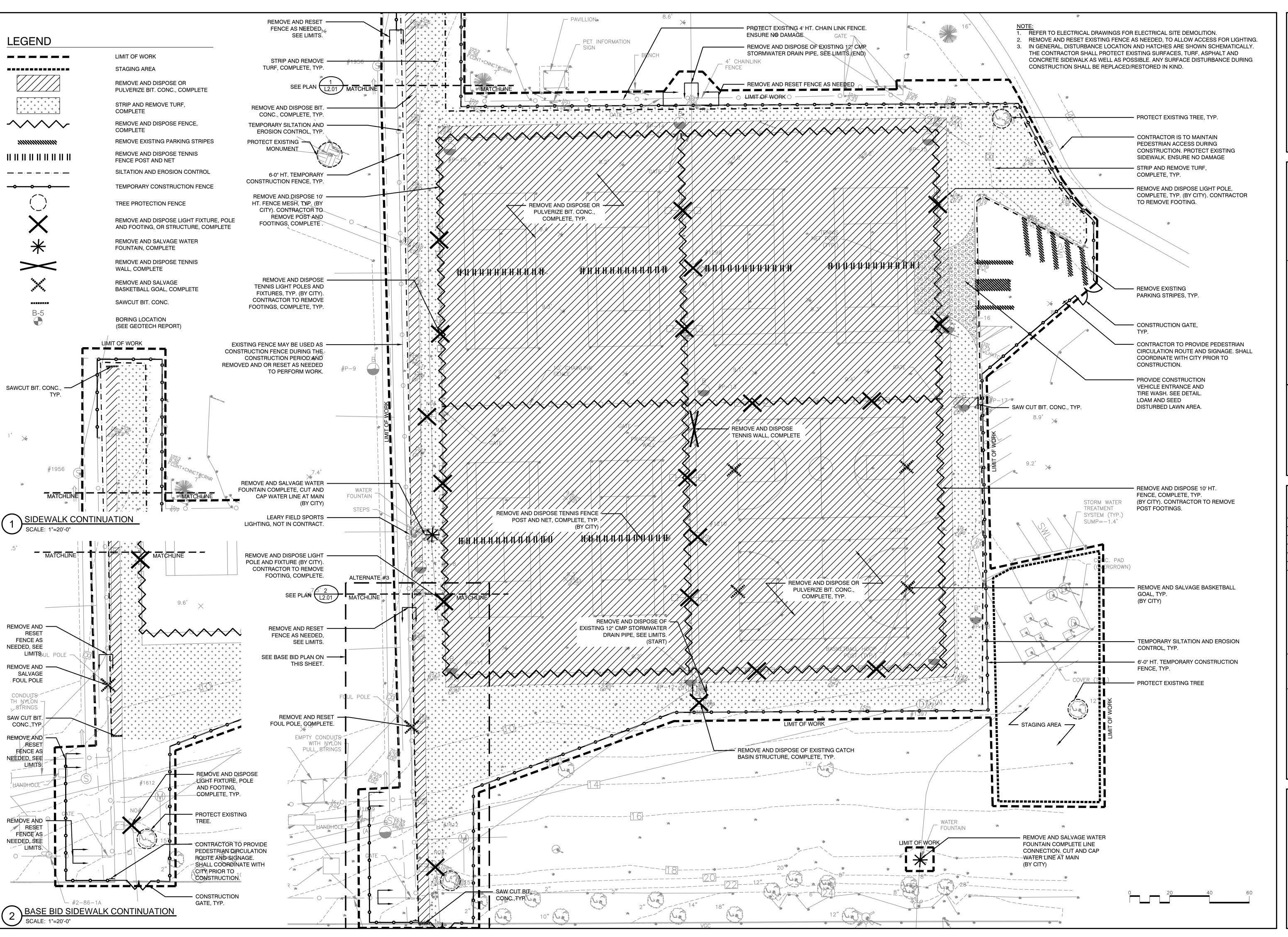
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GENERAL NOTES AND ABBREVIATIONS

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SOUTH MILL POND TENNIS COURTS

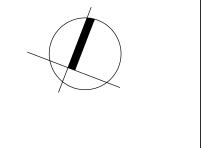
Rockland Street, Portsmouth, NH

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Consultants:

North:



Rev Date Description

Seal:

PLANS FOR CONSTRUCTION

04.07.2016

1" = 20'-0"

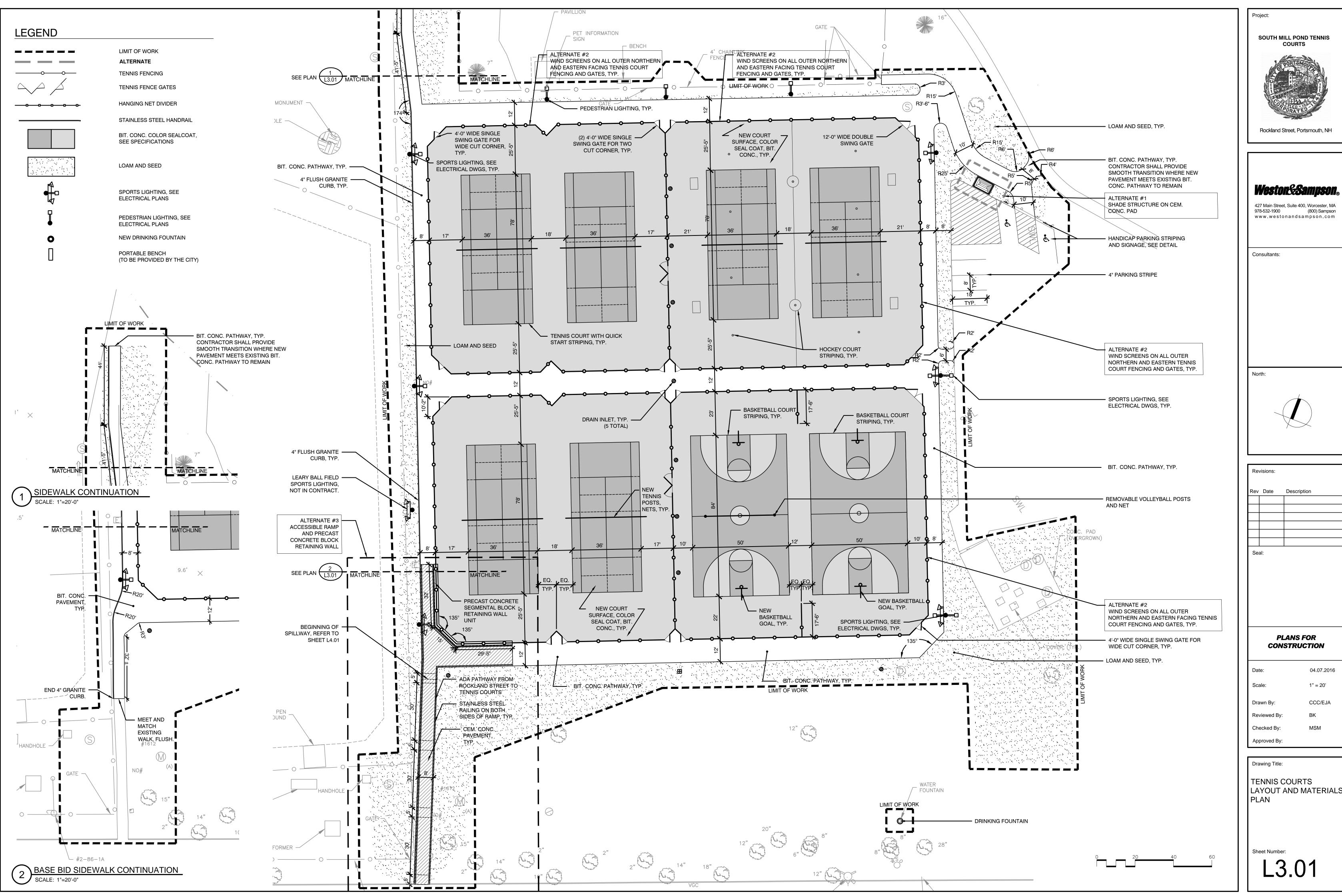
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Reviewed By: BK
Checked By: MSM

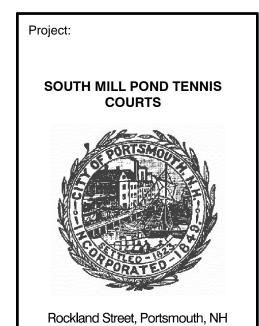
Drawing Title:

Approved By:

TENNIS COURTS SITE PREPARATION PLAN

12.01





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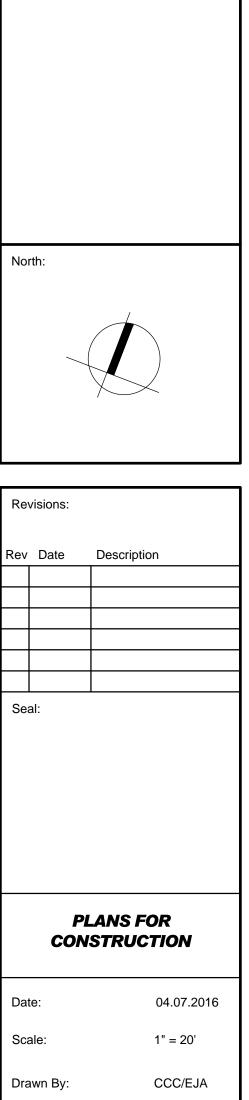
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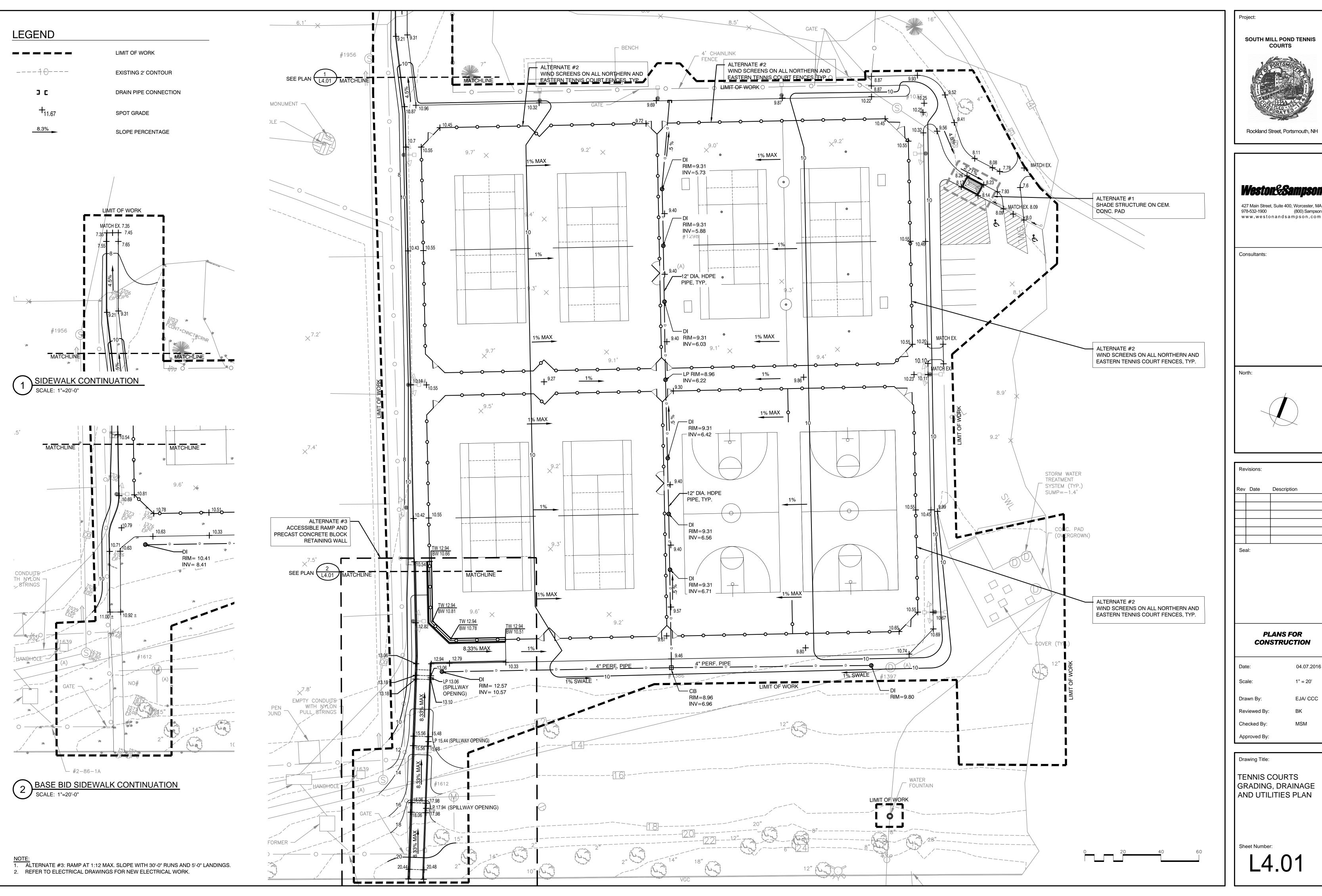


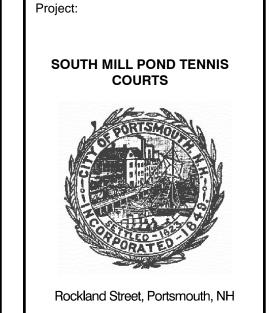
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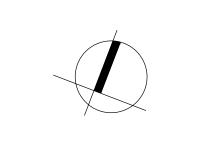
Drawing Title:





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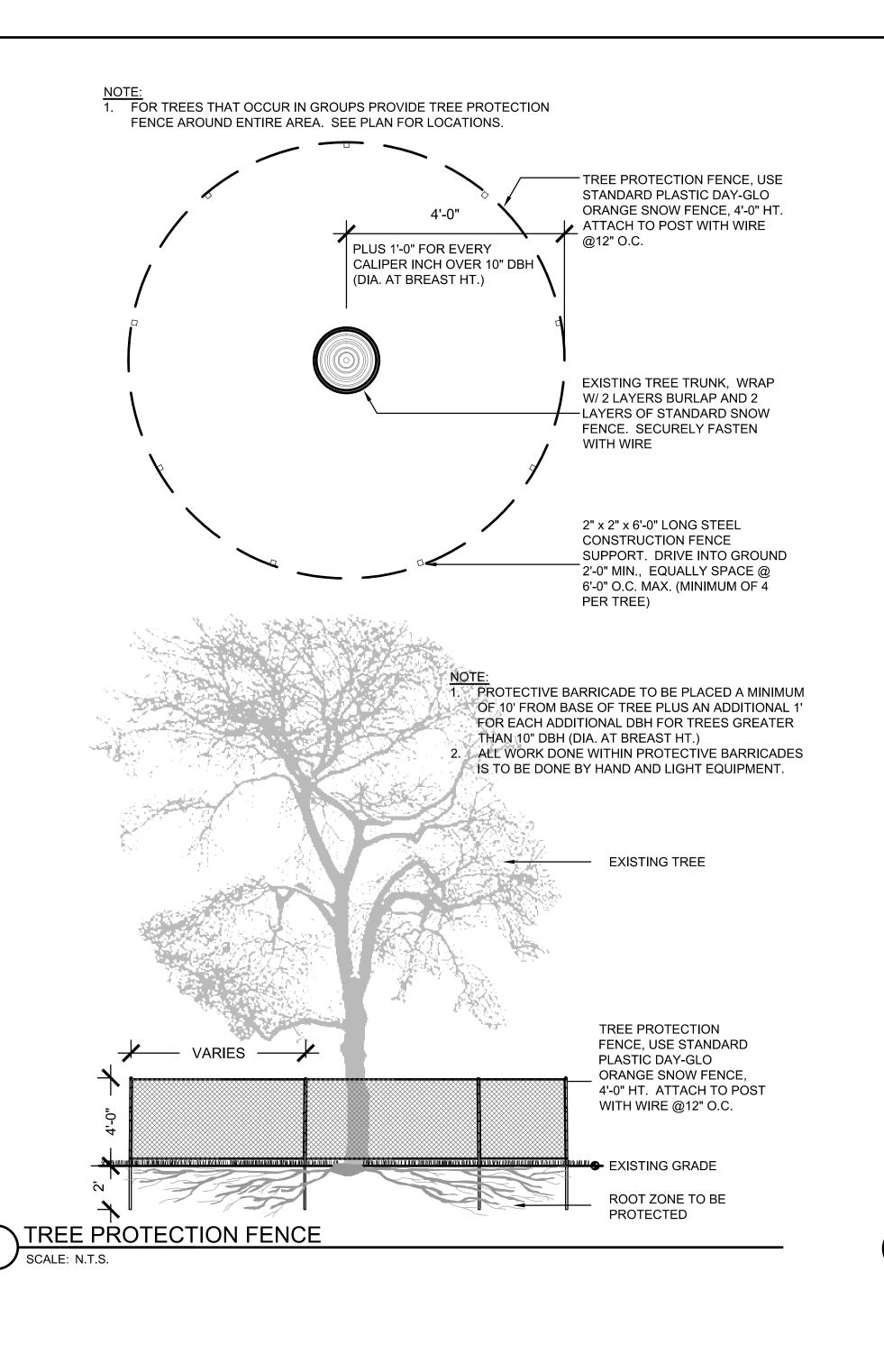


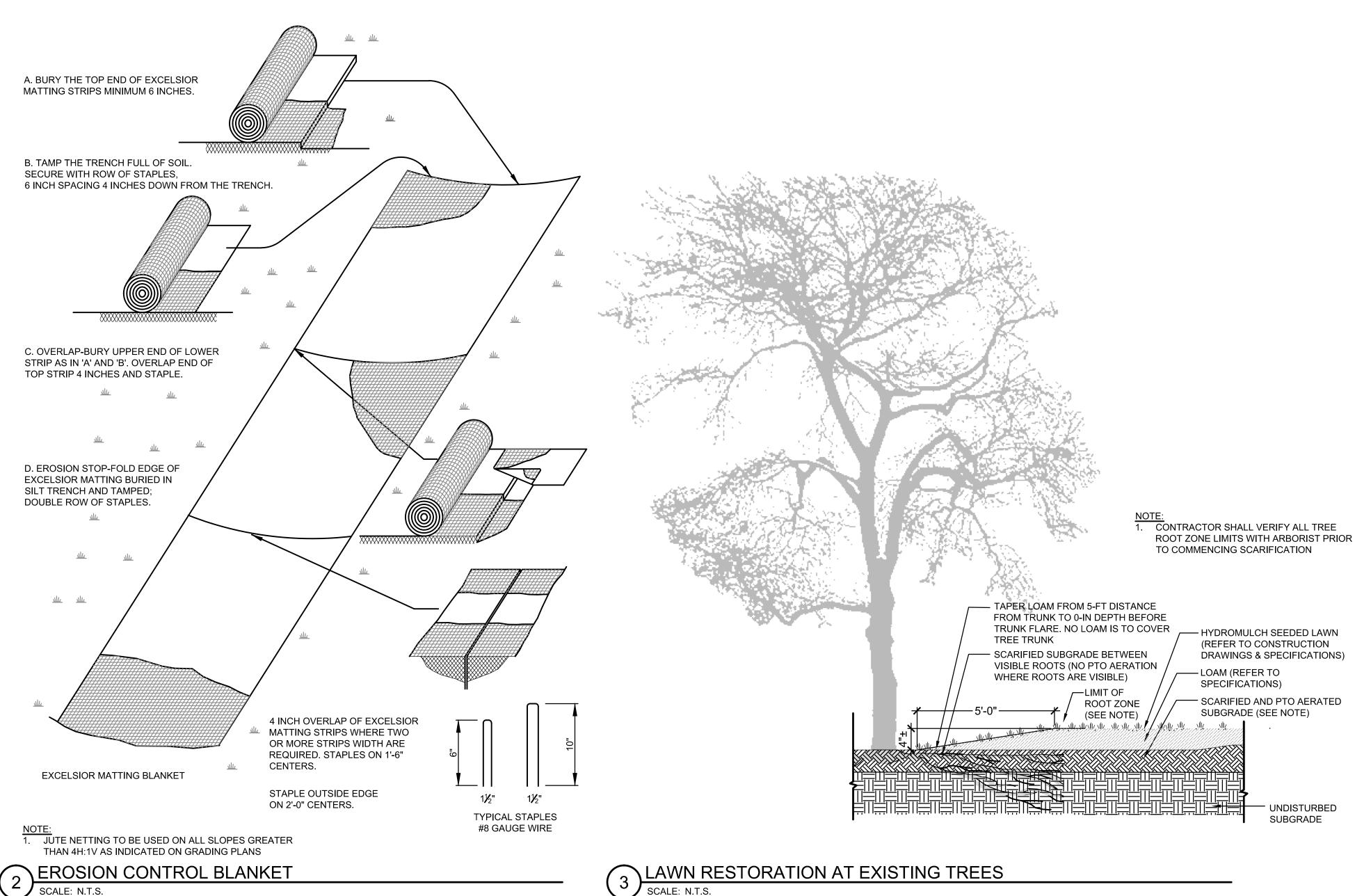
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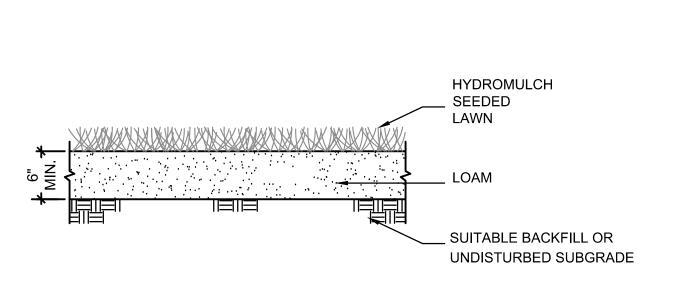
**PLANS FOR** CONSTRUCTION

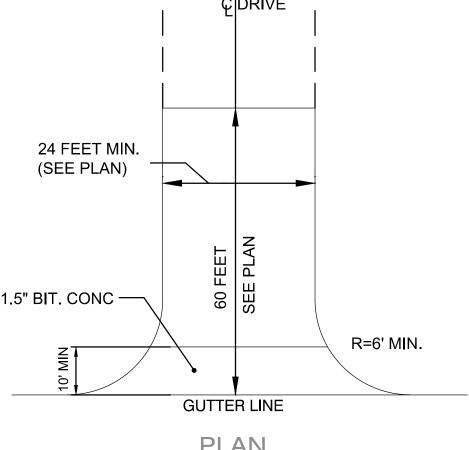
1" = 20' EJA/ CCC

GRADING, DRAINAGE AND UTILITIES PLAN









NOTES:
1. CONSTRUCTION ENTRANCE SHALL CONSIST OF 1.5" BIT. CONC FOR 10' MIN INTO PROJECT AREA. BEYOND BIT. CONC, CONSTRUCTION ENTRANCE SHALL CONSIST OF 2" CRUSHED STONE PLACED AT A DEPTH OF A MINIMUM 8 INCHES PLACED

- OVER GEOTEXTILE FABRIC. 2. CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL VEGETATION, ROOTS AND ALL OBSTRUCTIONS IN PREPARATION FOR GRADING AND COMPACTING PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND CRUSHED STONE.
- 3. CONTRACTOR RESPONSIBLE FOR DAILY INSPECTION AND ALL NECESSARY MAINTENANCE OF ENTRANCE.
- 4. CONTRACTOR RESPONSIBLE FOR REMOVAL OF SEDIMENTS OR ANY OTHER MATERIALS TRACKED ONTO ROCKLAND STREET AND PARKING AREA AS WELL AS MAINTENANCE OF EROSION CONTROL MEASURES.

1.5" BIT. CONC — PLAN

5 STABILIZED TEMPORARY CONSTRUCTION ENTRANCE SCALE: N.T.S.

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(REFER TO CONSTRUCTION

UNDISTURBED

SUBGRADE

Rev Date Description

**PLANS FOR** CONSTRUCTION 04.07.2016

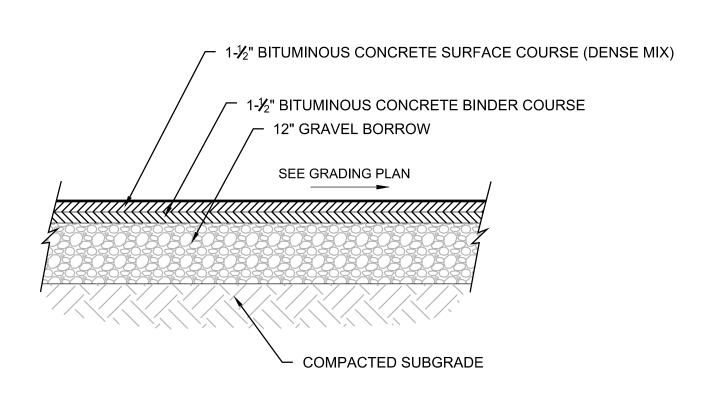
AS SHOWN

CCC/ EJA Drawn By: Reviewed By: Checked By: Approved By:

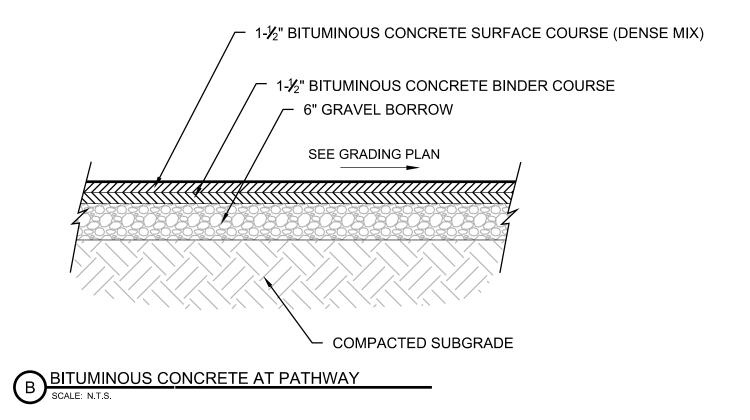
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Sheet Number:

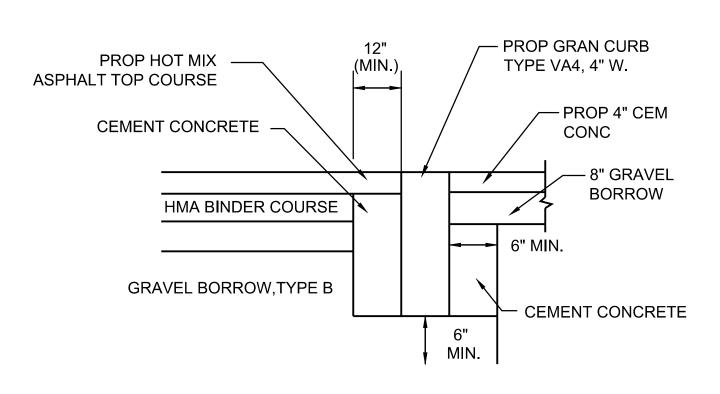
L5.01



## A BITUMINOUS CONCRETE AT TENNIS COURTS SCALE: N.T.S.

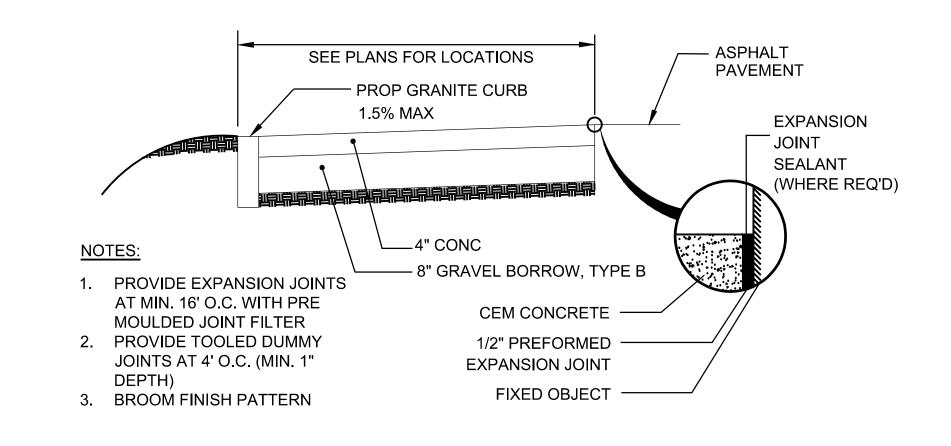




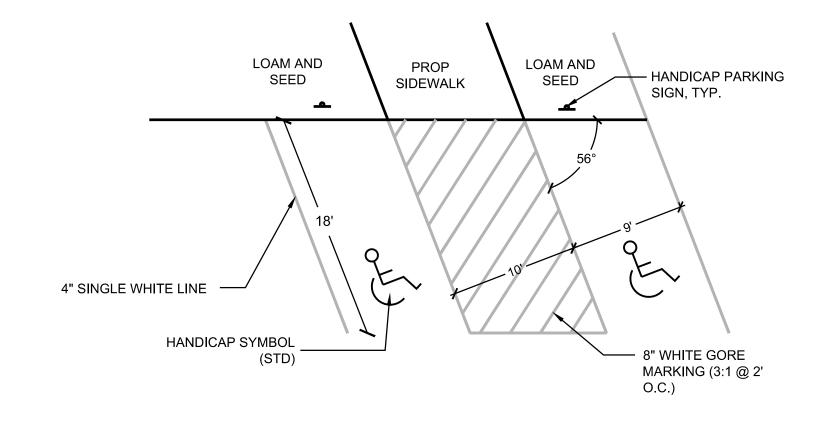


5 FLUSH GRANITE CURB INSTALLATION IN FULL DEPTH PAVEMENT SCALE: N.T.S.

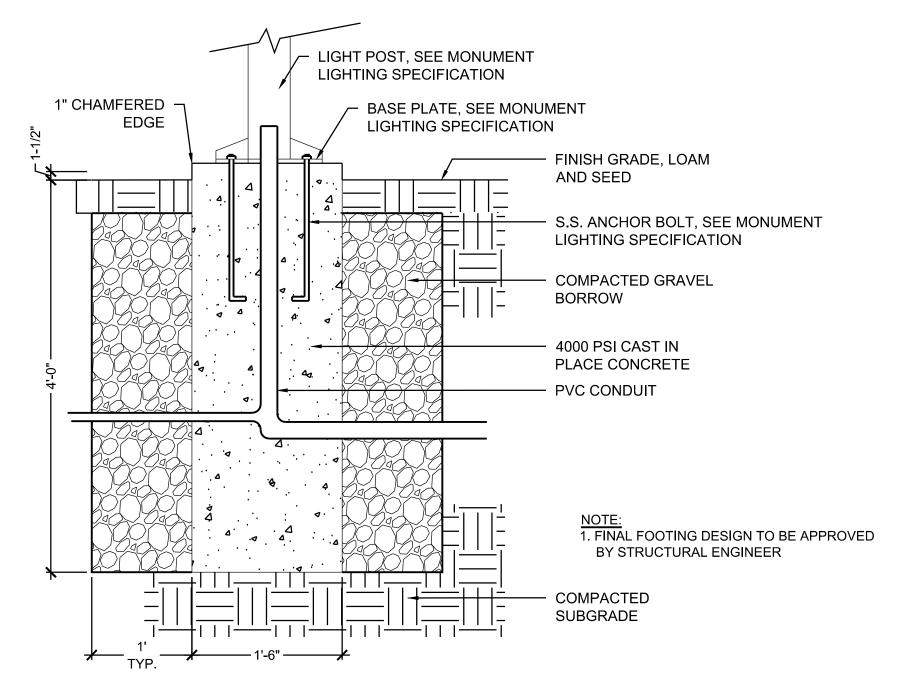




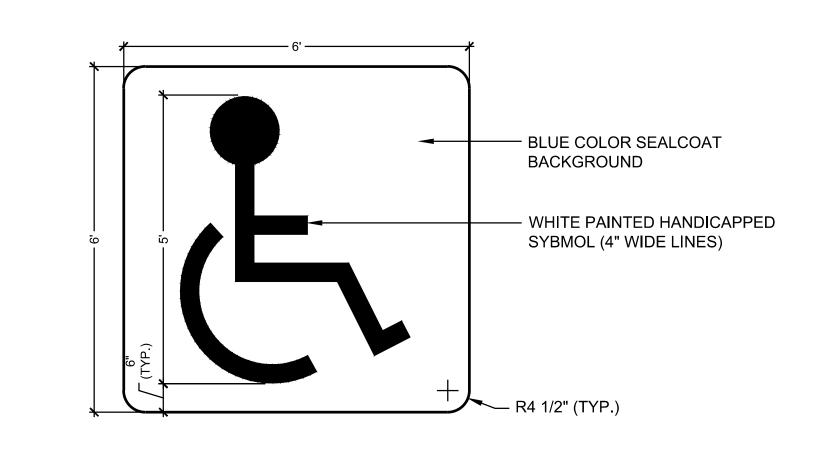
### CEMENT CONCRETE WALK



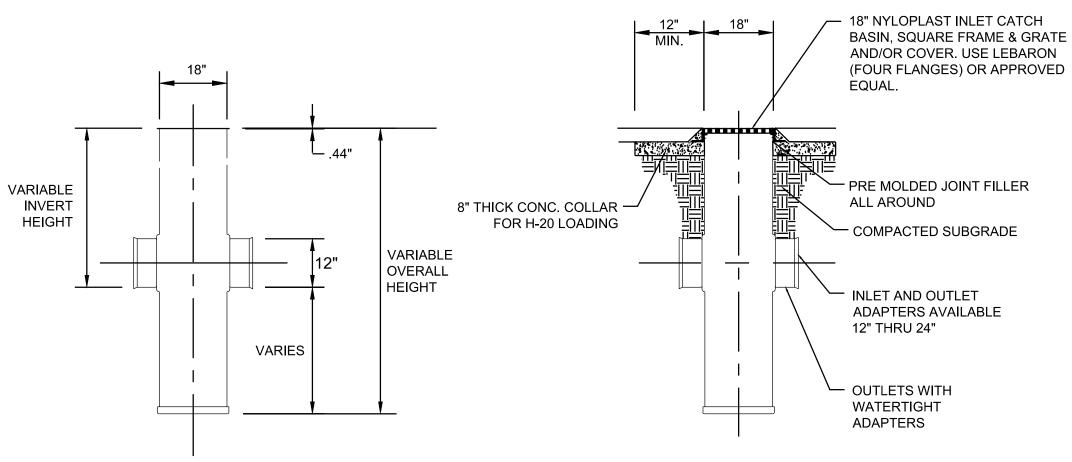




PEDESTRIAN LIGHT POST FOOTING



### HANDICAP PARKING PAVEMENT SYMBOL (4) SCALE: N.T.S.



NOTES:
1. 18" MIN SUMP IS REQUIRED ON CATCH BASINS (DRAIN INLETS) ONLY.

2. GRATES AND/OR COVERS SHALL BE A MINIMUM 18" ROUND AT THE LOCATIONS INDICATED ON THE CONSTRUCTION PLAN.

7 PVC MANHOLE / CATCH BASIN (DRAIN INLET)
SCALE: N.T.S.

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Dat	te:	04.07.2016	
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Dra	awn By:	CCC/ EJA	

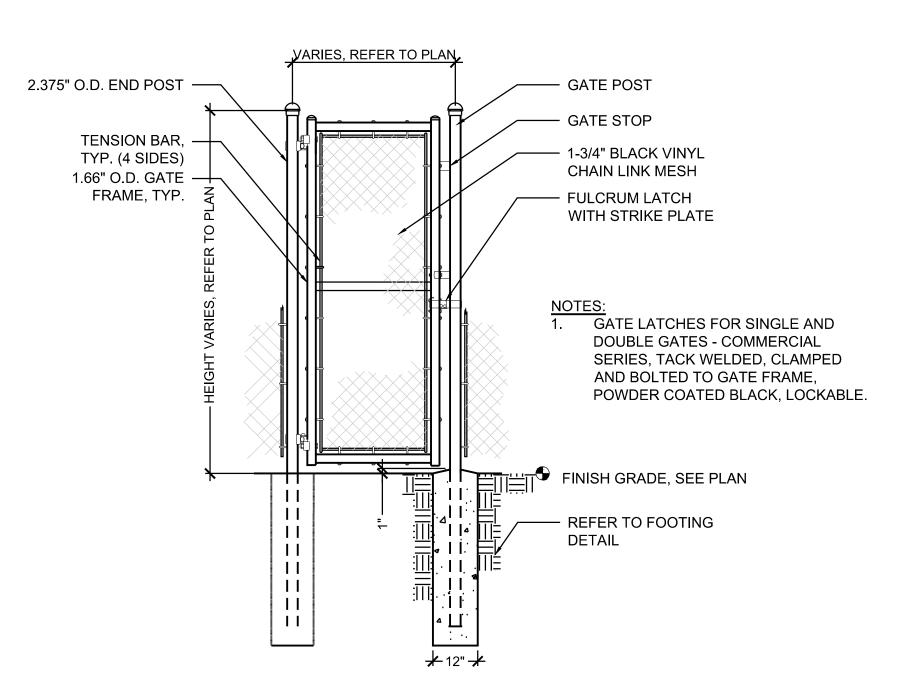
Drawing Title:
CONSTRUCTION DETAILS

Reviewed By:

Checked By:

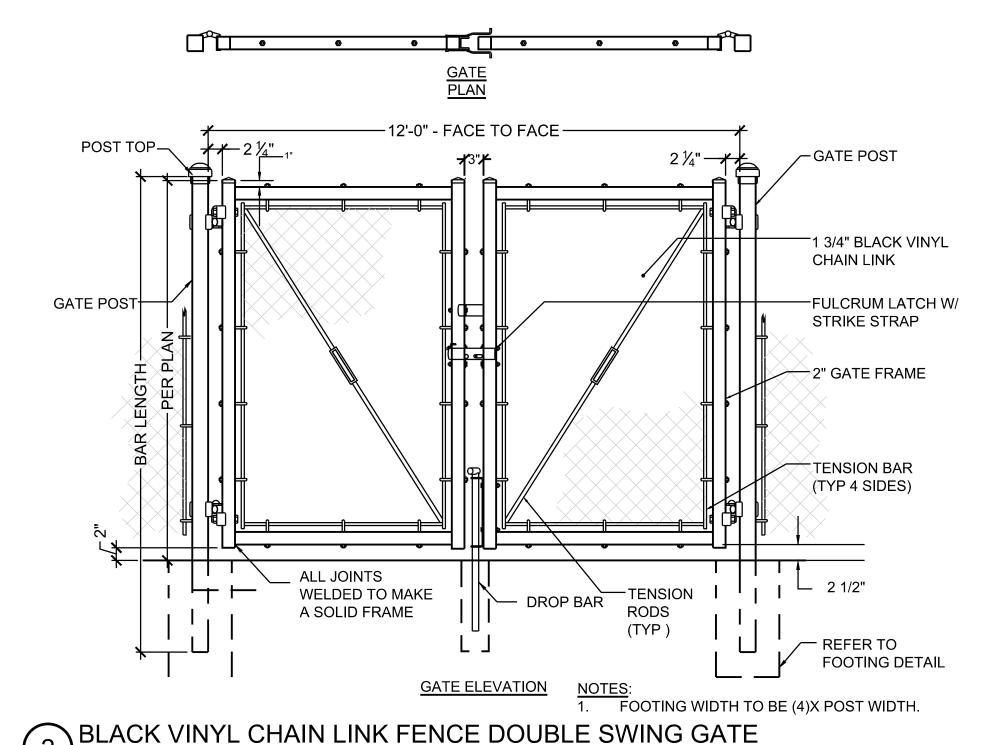
Approved By:

Sheet Number: L5.02



REFER TO PLANS -

BLACK VINYL CHAIN LINK FENCE SINGLE GATE



PLAN VIEW AT PVMT. BIT. CONCRETE OR CEMENT CONCRETE PAVEMENT OR OTHER - CLF RAIL/FABRIC CENTERLINE FENCE POST AND FOOTING BIT. CONC. PER PLAN SECTION VIEW CEM. CONC. FOOTING TO BE USED FOR ALL CHAIN LINK FENCE POSTS, UNLESS OTHERWISE NOTED. POUR AGAINST UNDISTURBED SOIL UNLESS NOTED

3 CAST IN PLACE CONCRETE PAD SCALE: N.T.S.

6 GATE STOP SCALE: N.T.S.

JOINT FILLER

AND SEALANT

BIT. CONC., TYP.

**ELEVATION** 

FINISH

4 TYPICAL FENCE POST FOOTING
SCALE: N.T.S.

SCALE: N.T.S.

FINISH ELEVATION

BIT. CONC., TYP.

4000 PSI CAST IN

PLACE CONCRETE

WITH #4 REBAR 8"

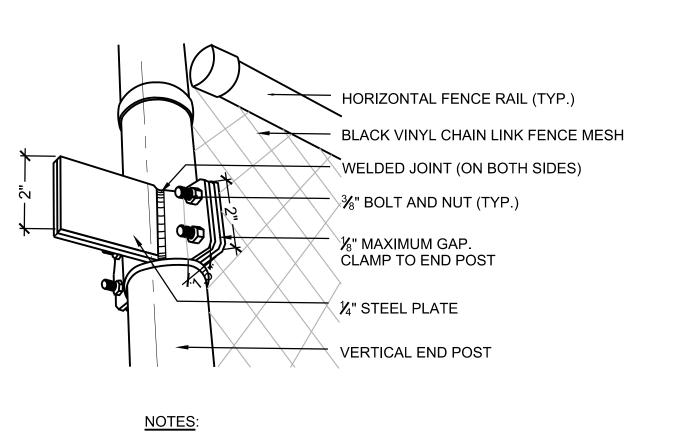
COMPACTED

GRAVEL

BORROW

COMPACTED **SUBGRADE** 

**FLUSH** 



NOTES:
1. PROVIDE GATE STOP AT ALL FENCE GATES.

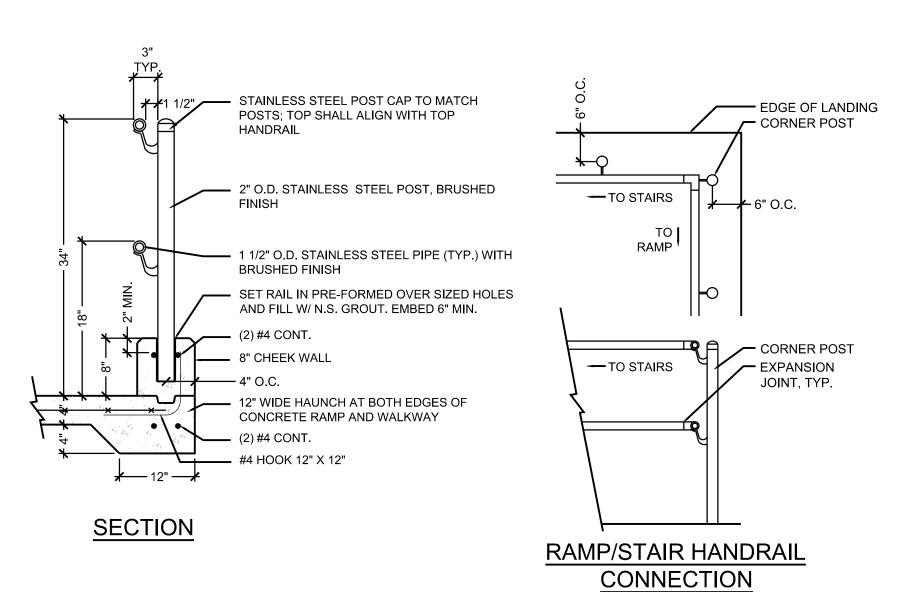
—#5 -12" BW OPTIONAL BASE CONNECTION COLUMN TYPE: B (SURFACE MOUNT W/ COVERS) 7 SHADE SHELTER FOOTING - ALTERNATE #1

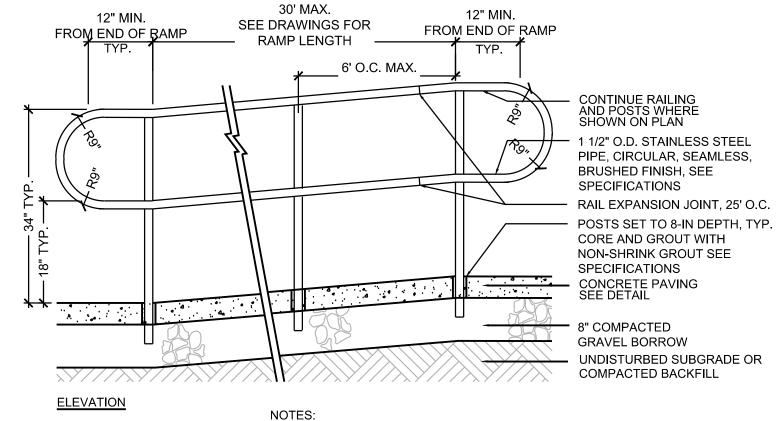
BASE COVERS, TYP. " ANCHOR BOLT WITH  $rac{3}{4}$ " NUTS (4) PLCS .#4 @ 12", TYP. ~2'X2' CONCRETE FOOTING 4' x 4' CONCRETE FOOTING 1' THICK \_10 #5 SPACED EQUAL, TYP.

NOTES:

1. VERTICAL POSTS SHALL BE SET @ 6' MAXIMUM, EVENLY SPACED ALONG THE HORIZONTAL RAIL, UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS. 2. CONTRACTOR SHALL SUBMIT LARGE SCALE SHOP DRAWINGS OF HANDRAILS AND ALL NECESSARY HARDWARE PER SPECIFICATIONS

3. THERE SHALL BE CONTROL JOINTS ON CHEEK WALL EVERY 20' MINIMUM.



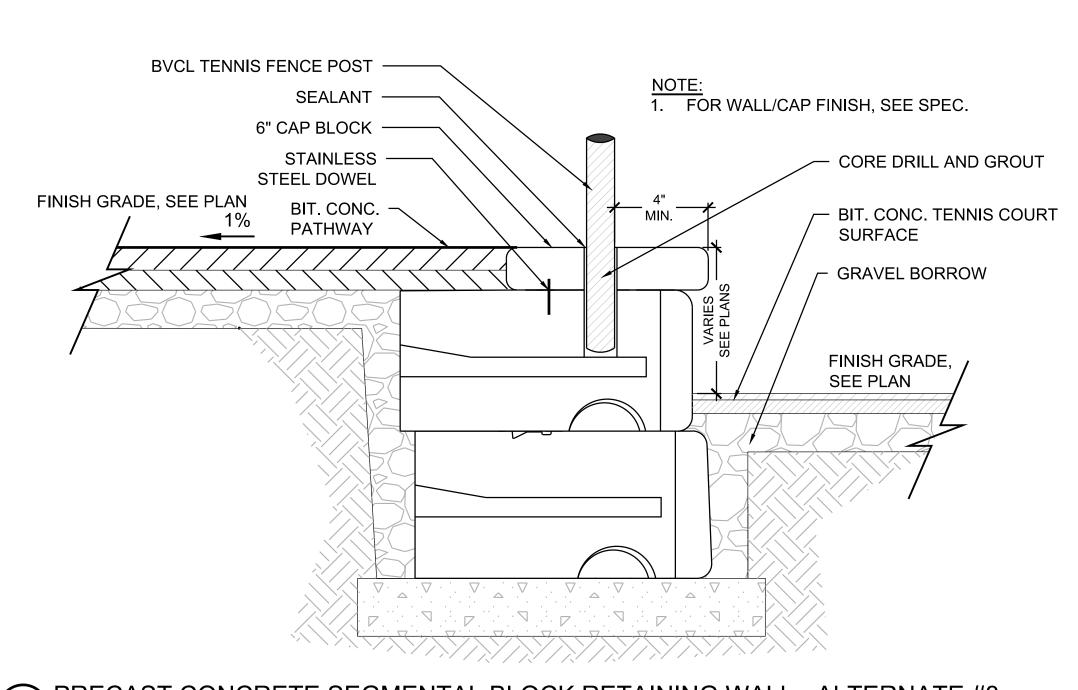


1. ALL HANDRAILS SHALL BE STAINLESS STEEL 2. HANDRAILS SHALL BE CORE DRILLED AND SET TO 8-IN DEPTH WITH EPOXY GROUT. 3. ALL WELDS SHALL BE GROUND DOWN CLEAN AND SMOOTH.

4. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND ADJUSTED AS NEEDED.

CAST-IN-PLACE CONCRETE RAMP WITH HANDRAIL - ALTERNATE #3

SCALE: N.T.S.



\PRECAST CONCRETE SEGMENTAL BLOCK RETAINING WALL - ALTERNATE #3

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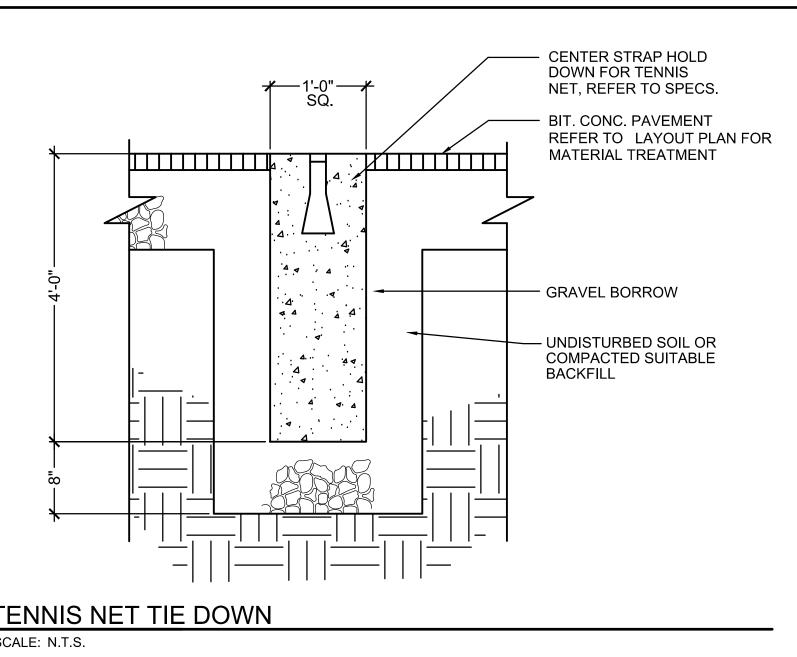
04.07.2016 AS SHOWN EJA/ CCC Drawn By: Reviewed By: Checked By:

Drawing Title: CONSTRUCTION DETAILS

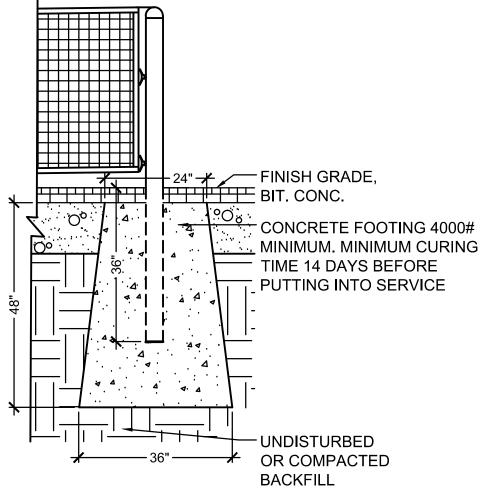
Approved By:

Sheet Number:

L5.03



TENNIS NET TIE DOWN



2 TENNIS POST FOOTING
SCALE: N.T.S.

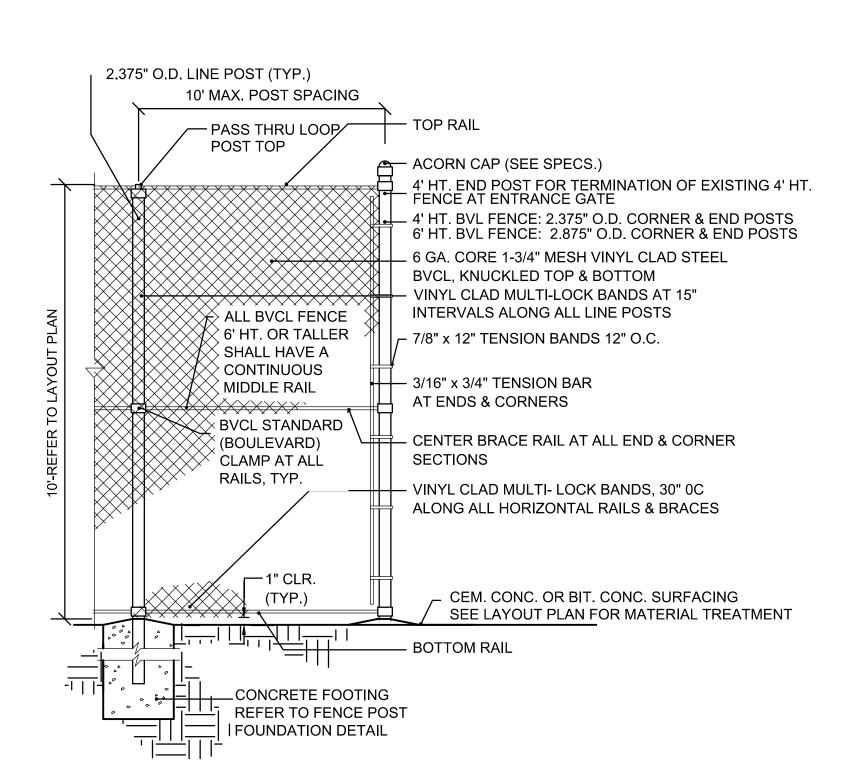
REFER TO BVCL FENCE GATE DETAIL FOR ALL COMPONENTS AND DIMENSIONS, TYP. REFER TO TENNIS BVCL — FENCE DETAIL FOR ALL COMPONENTS AND DIMENSIONS, TYP.

TENNIS GATE ELEVATION

NOTES:

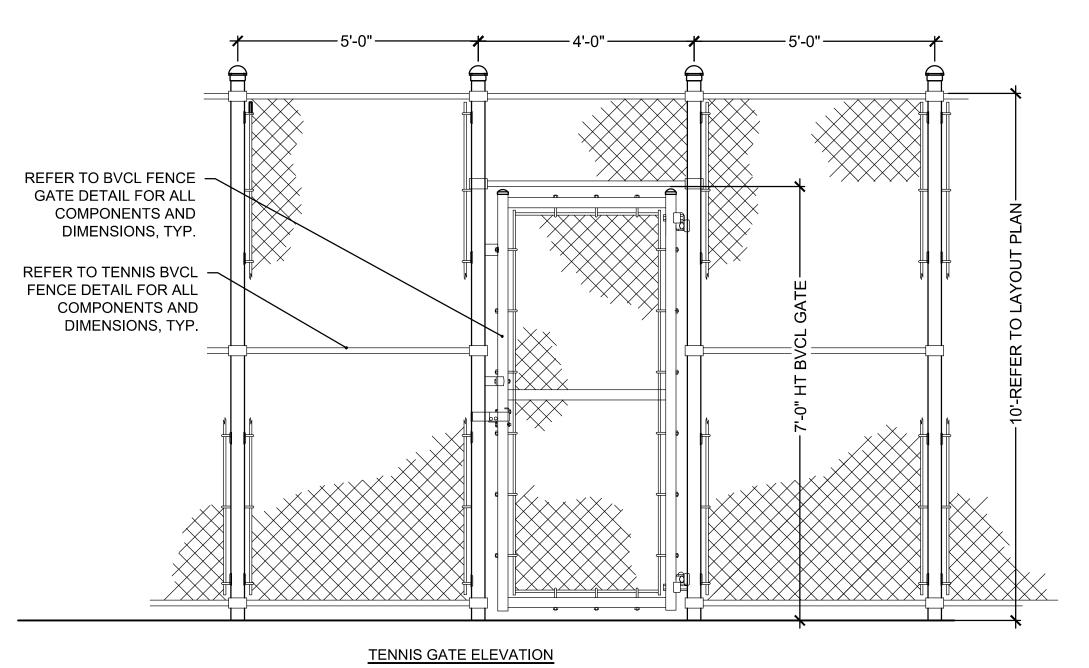
1. ALL GATE PLANS AND ELEVATIONS FOR LAYOUT REFERENCE ONLY.

4 TENNIS GATES AT CUT CORNERS
SCALE: N.T.S.



- 1. 1 3/4" MESH VINYL-CLAD STEEL CHAIN LINK FABRIC, KNUCKLED TOP AND BOTTOM.
- ALL FENCE PIPE SHALL BE SCH. 40, VINYL CLAD HOT DIP GALV. STEEL PIPE. ALL LINE POSTS SHALL BE INSTALLED EQUALLY SPACED BETWEEN END & CORNER POSTS.
- ALL RAILS SHALL BE 1.66" O.D. PIPE
- ALL CLAMPS, TIES, POST TOPS, BANDS, POSTS, ETC. SHALL BE VINYL CLAD TO MATCH FABRIC.
- REFER TO EL SERIES DRAWINGS FOR BONDING AND GROUNDING REQUIREMENTS
- REFER TO SPECS. FOR GATE REQUIREMENTS.

TENNIS BLACK VINYL CHAIN LINK FENCE

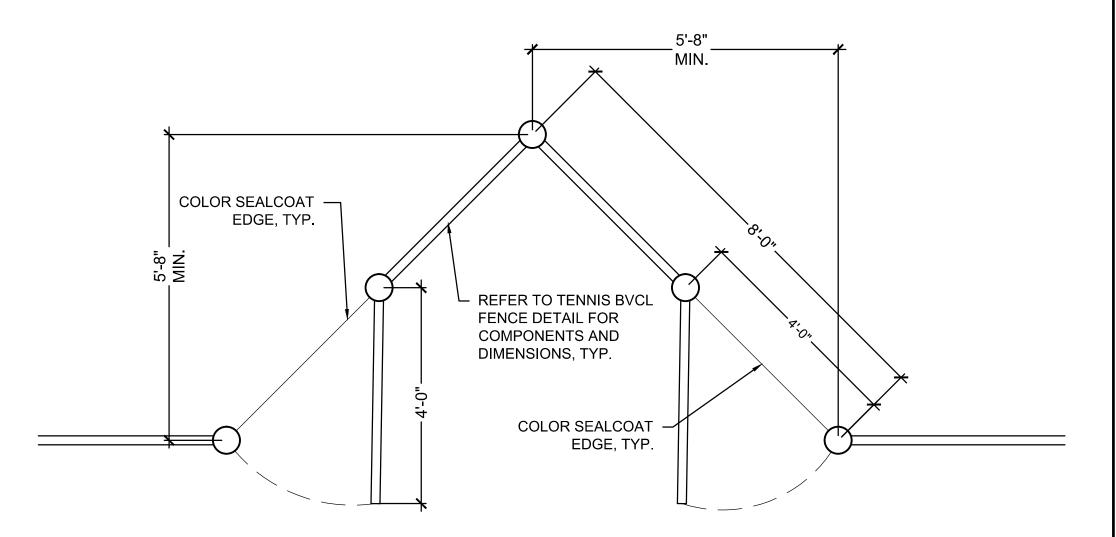


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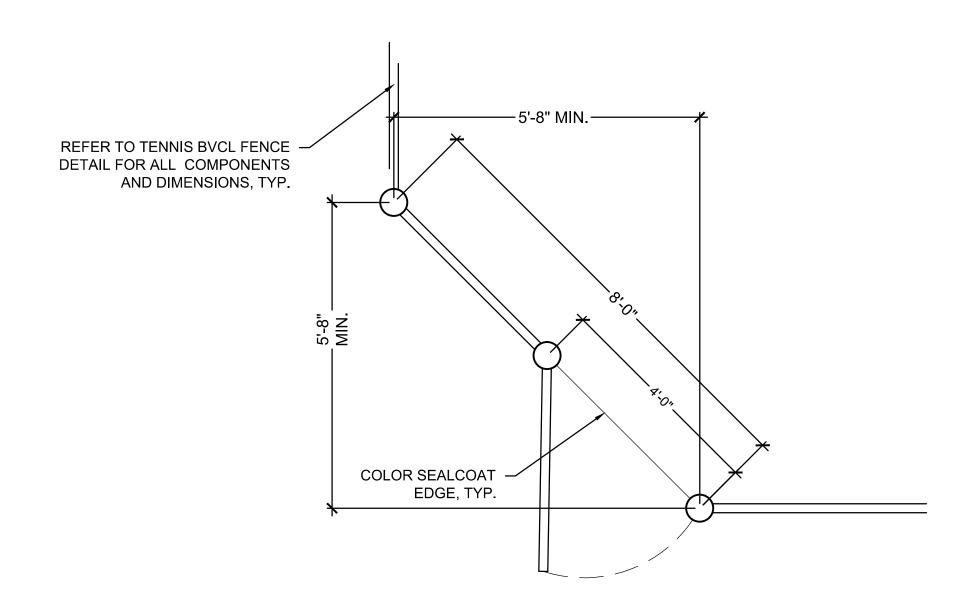
1. ALL GATE PLANS AND ELEVATIONS FOR LAYOUT REFERENCE ONLY.

TENNIS GATES FOR WIDE CUT CORNERS

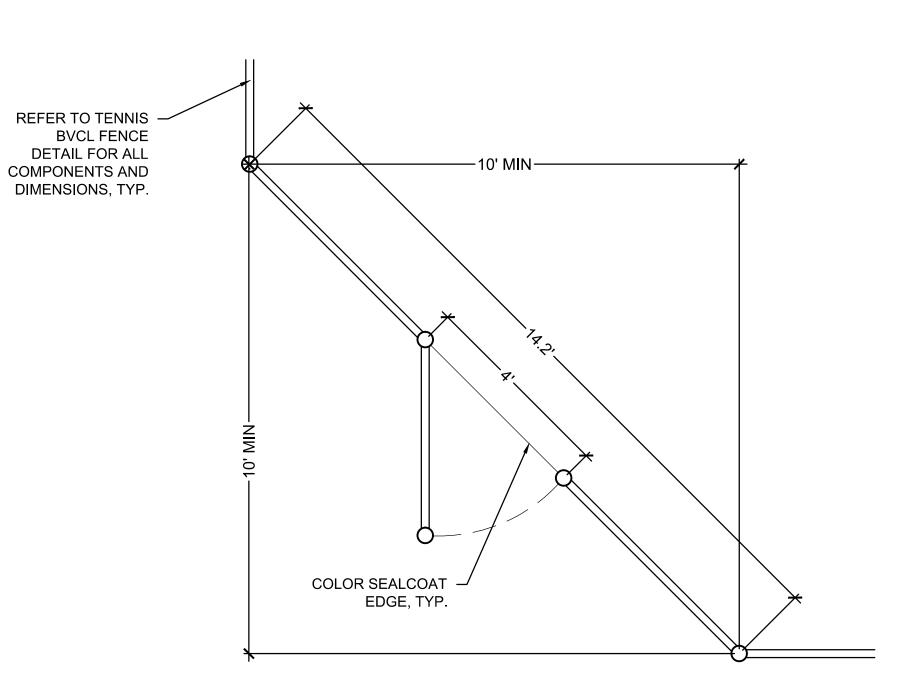
SCALE: N.T.S.



TENNIS GATE PLAN FOR TWO CUT CORNERS



TENNIS GATE PLAN FOR ONE CUT CORNER



TENNIS GATE PLAN FOR ONE WIDE CUT CORNER

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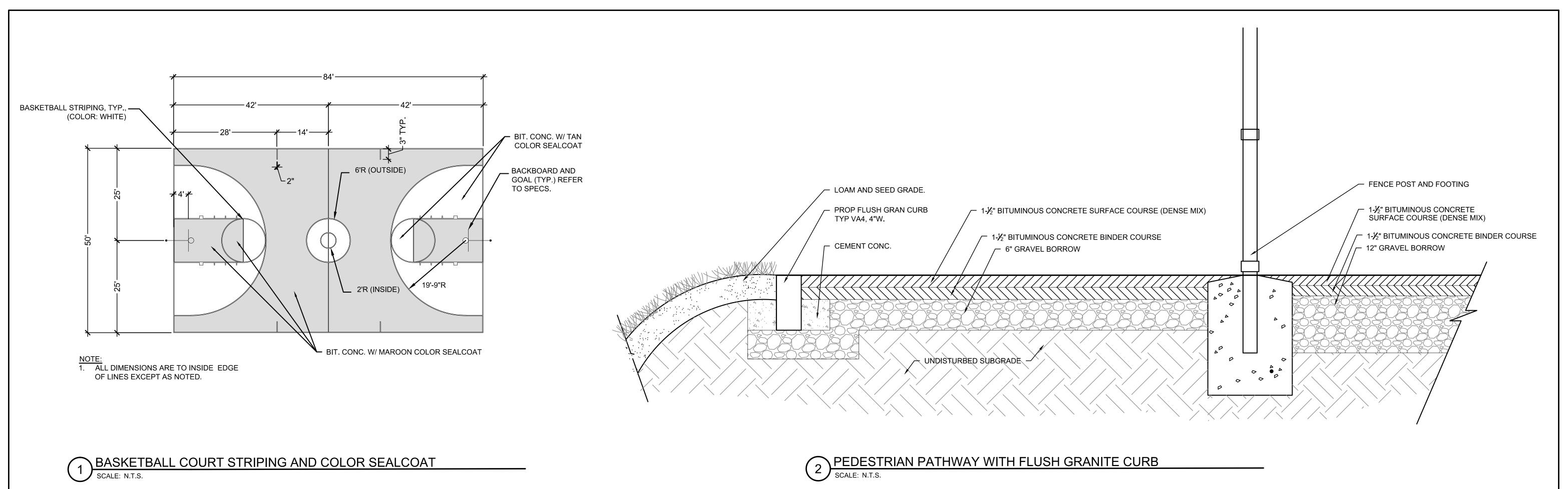
04.07.2016 AS SHOWN EJA/ CCC Drawn By

Reviewed By: Checked By: Approved By:

Drawing Title: CONSTRUCTION

**DETAILS** 

L5.04



1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINES. 2. CENTER SERVICE LINE AND CENTER MARK SHALL BE 2 INCHES WIDE. OTHER LINES SHALL BE BETWEEN 1" AND 2" WIDE, DOUBLES NET POST 42' CENTER TO CENTER EXCEPT THE BASELINES MAY BE UP TO 3. QUICK START STRIPING SHALL ALTERNATE ON ADJACENT TENNIS COURT ➤ DOUBLES SIDE SINGELS SIDE LINE LINE NOTE:

1. ALL STREET HOCKEY COURT STRIPING SHALL BE BASE LINE PAINTED USING A COLOR DIFFERENT & CONSTRASTING TO THE TENNIS COURT STRIPING. SERVICE LINE EQUAL A EQUAL A EQUAL A CENTER SERVICE / CENTER ∠ 2" HOCKEY LINE MARK STRIPING, TYP. PAINTED LINE STRIPING FOR HOCKEY -GOAL CREASE LOCATION, TYP. QUICK START STRIPING 12"Ø CIRCLE (OUTSIDE) TYP. -(INSIDE TENNIS LINES, COLOR: TAN) (OUTSIDE TENNIS LINES, COLOR: MAROON) TENNIS BVCL FENCE, ¢ STREET HOCKEY COURT ► HANGING NET DIVIDER 3 STREET HOCKEY COURT STRIPING OVERLAY AT TENNIS COURTS SCALE: N.T.S. TENNIS COURT STRIPING

SCALE: N.T.S.

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PLANS FOR CONSTRUCTION

Date: 04.07.2016

Scale: AS SHOWN

Drawn By: EJA/ CCC

Reviewed By: BK

Checked By: MSM

Approved By:

CONSTRUCTION
DETAILS

Sheet Number:

#### GENERAL ELECTRICAL NOTES

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
- 2. WORK SHALL CONFORM TO THE NEW HAMPSHIRE ELECTRICAL CODE AND NEW HAMPSHIRE BUILDING CODE AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
- 3. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.
- 4. CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.
- 5. CONTRACTOR SHALL PAY ELECTRIC UTILITY COMPANY BACKCHARGES AND PROVIDE COORDINATION WITH SAME.
- 6. EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, DEVICES, SAFETY SWITCHES, MOUNTING AND WIRING, TRANSFORMERS AND CONNECTIONS NECESSARY TO OPERATE ALL EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER AND PAY ALL ENERGY CHARGES.
- 8. DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.
- 9. ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.
- 10. ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.
- 11. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED, ELECTRICAL EQUIPMENT IS SUBSTITUTED. THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.
- 12. MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.
- 13. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- 14. WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.
- 15. ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF WHICH SYSTEM IS PUT INTO SERVICE UNLESS OTHERWISE SPECIFIED.
- 16. WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT
- 17. WIRE SHALL BE TYPE "XLP" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.
- 18. WIRING METHODS:
  - A. BELOW GRADE WIRING SHALL BE SCHEDULE 80 PVC.

(INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.

- 19. PANELBOARDS SHALL BE DEAD FRONT. THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE. DESIGNED FOR SURFACE MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 480/277 VOLT, 3-PHASE, 4-WIRE AND 120/208 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.
- 20. CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.
- 21. CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN
- 22. PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.

### **ABBREVIATIONS**

			_
Α	AMPERE	NTS	NOT TO SCALE
AF	AMPERE FRAME	PNL	PANELBOARD
AC	ALTERNATING CURRENT	PH	PHASE
AT	AMPERE TRIP	FL	FLOOR
ATS	AUTOMATIC TRANSFER SWITCH	FLA	FULL LOAD AMPERE
BKR	BREAKER	GC	GENERAL CONTRACTOR
С	CONDUIT	GFI	GROUND FAULT INTERRUPTER
CKT	CIRCUIT	GND	GROUND
СВ	CIRCUIT BREAKER	IG	ISOLATED GROUND
EC	ELECTRICAL CONTRACTOR	JB	JUNCTION BOX
EMT	ELECTRIC METALLIC TUBING	-	
KW	KILOWATT	KVA	KILOVOLT AMPERES
MCB	MAIN CIRCUIT BREAKER	PVC	POLYVINYL CHLORIDE CONDUIT
MLO	MAIN LUGS ONLY	RSC	RIGID GALVANIZED STEEL CONDU
MC	MECHANICAL CONTRACTOR	XFMR	TRANSFORMER
MTD	MOUNTED	V	VOLTS
MTG	MOUNTING	•	
NMC	NON-METALLIC CONDUIT	W	WATTS OR WIRE
NA	NOT APPLICABLE	WP	WEATHERPROOF
NIC	NOT IN CONTRACT		

### **ELECTRICAL SYMBOL LIST**

### **RECEPTACLES**

DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GROUNDED TYPE. ALL OTHER MOUNTING HEIGHTS SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO RECEPTACLE ABBREVIATIONS FOR SPECIAL PURPOSE RECEPTACLES

DUPLEX RECEPTACLE WITH INTERGRAL GROUND FAULT INTERRUPTER GFIC

#### RACEWAY AND WIRING

-HOMERUN TO PANELBOARD, NUMBER OF SLASH MARKS INDICATES NUMBER OF #12 AWG CONDUCTORS IN MINIMUM 3/4" CONDUIT. NO SLASH MARKS INDICATE 2#12 & 1#12G, 3/4"C UNLESS NOTED OTHERWISE. -GREEN GROUND CONDUCTOR IS NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12 UNLESS INDICATED OTHERWISE. -HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE PHASE CONDUCTORS (ONE PER PHASE) PLUS NEUTRAL AND GROUND CONDUCTOR IN EACH CONDUIT.

NEW UNDERGROUND ELECTRIC LINE

EXISTING UNDERGROUND ELECTRIC LINE

EXISTING UNDERGROUND ELECTRIC LINE TO BE REMOVED

### **MISCELLANEOUS**

JUNCTION BOX WITH BLANK COVERPLATE, SIZE AS REQUIRED BY N.E.C. TIME CLOCK CONTACTOR ELECTRIC UTILITY BILLING METER

**EXISTING TO REMAIN** 

EXISTING TO BE REMOVED PULL BOX/HANDHOLE SEE DETAIL 1 DRAWING EL103

GROUND - SYSTEM AND/OR EQUIPMENT

**CIRCUIT BREAKER** 

DIGITAL TIMER SWITCH

### POWER DISTRIBUTION EQUIPMENT

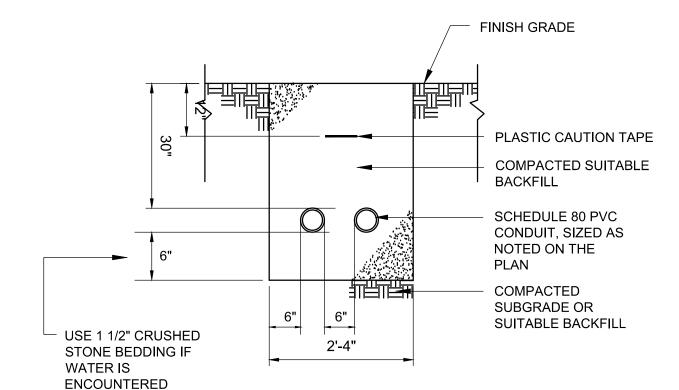
HAND HOLE

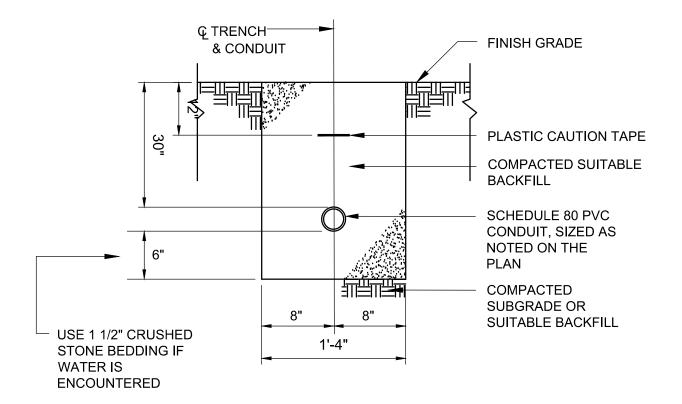
### 200AMP-3 POLE

LIGHTING SPORTS LIGHT POLE - 'F1' INDICATES POLE NUMBER 'C1' INDICATES CONTACTOR OR CONTRACTORS

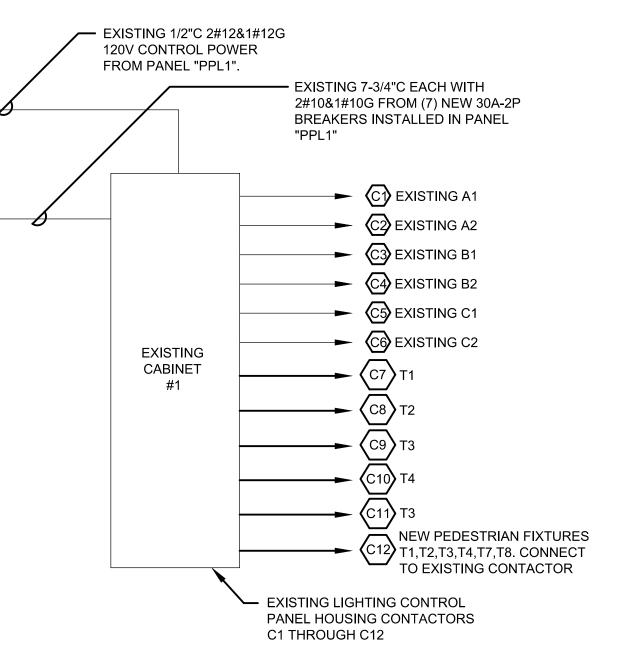
CONTROLLING POLE MOUNTED FIXTURES

POLE MOUNTED LIGHT FIXTURE





TYPICAL ELECTRIC CONDUIT TRENCH DETAIL SCALE: N.T.S.



EXISTING -

RISER POLE

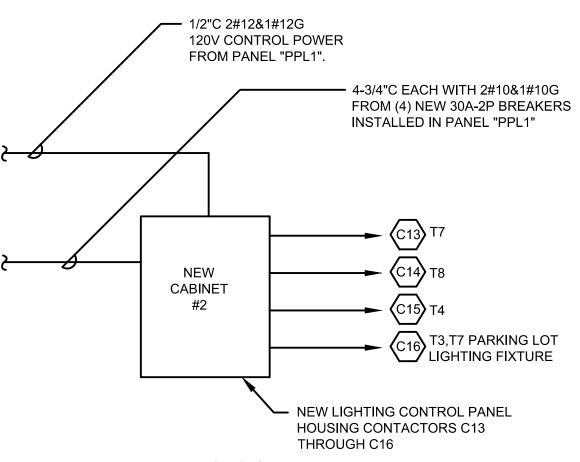
EXISTING SURGE —

SUPPRESSION DEVICE

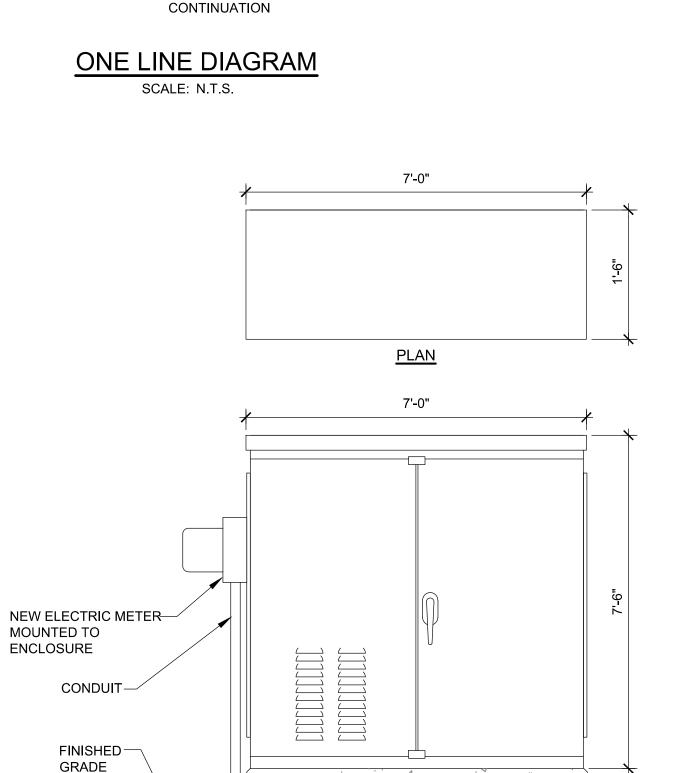
3/4"C., 2#12 & 1#12G 120V —

CONTROL POWER.

#### **EXISTING BASEBALL FIELD** SPORTS LIGHTING CONTROL DIAGRAM SCALE: N.T.S.



**TENNIS COURT** SPORTS LIGHTING CONTROL DIAGRAM SCALE: N.T.S.



EXISTING PAD MOUNTED

- EXISTING ELEC METER

- EXISTING 400A, 120/208V, 3-PHASE, 4-WIRE

PANELBOARD "PPL1"

---- 7-3/4"C EACH WITH 2#10 & 1#10G

-1"C., 3#10 & 1#10G SURGE

LIGHTING TIMER CLOCK

PROTECTION DEVICE

MONITORING

NEW DOG PARK

SHEET

SPORTS LIGHTING

CONTROL CABINET SEE DETAILS ON THIS

TRANSFORMER

PPL1

NEW

CABINET

TO NEW DOG PARK

LIGHTING REFER TO SITE

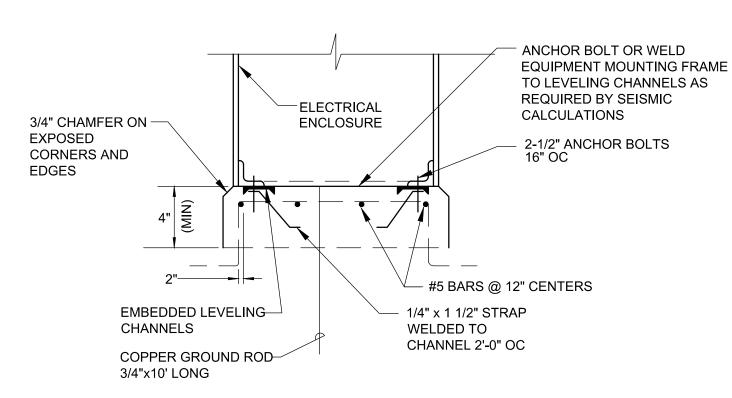
PLAN DRAWING EL1.02 FOR

EXISTING

CABINET

### **EXISTING PAD MOUNTED ELECTRICAL ENCLOSURE DETAIL** SCALE: N.T.S.

**ELEVATION** 



### EXISTING ELECTRICAL ENCLOSURE BASE DETAIL

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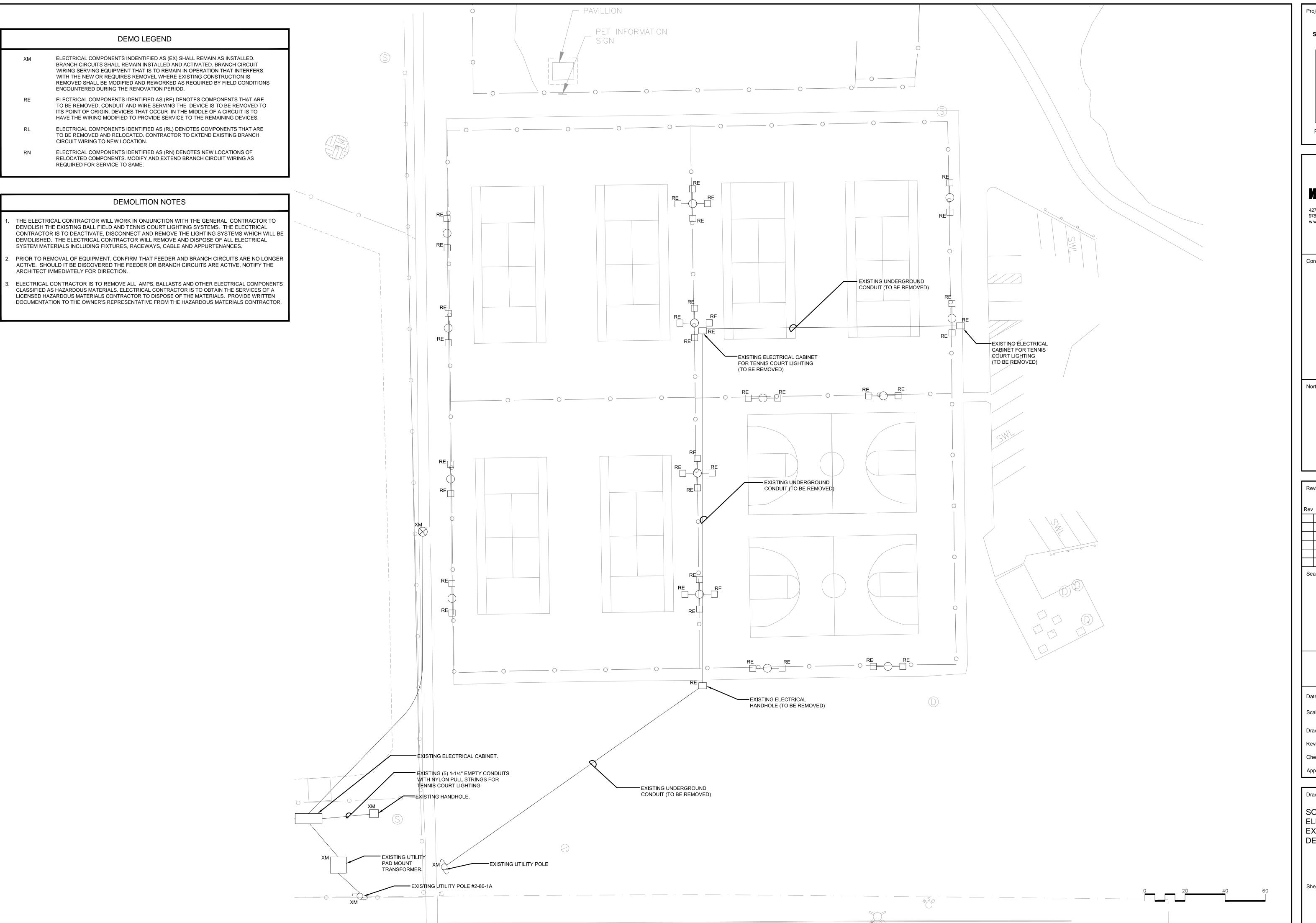
Revisions: Rev Date Description

> **PLANS FOR** CONSTRUCTION

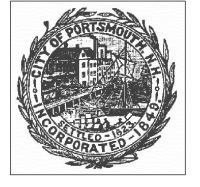
04.07.2016 N.T.S DNM Drawn By Reviewed By: Checked By: Approved By:

Drawing Title:

ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES AND DETAILS



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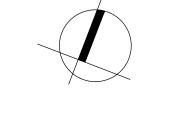


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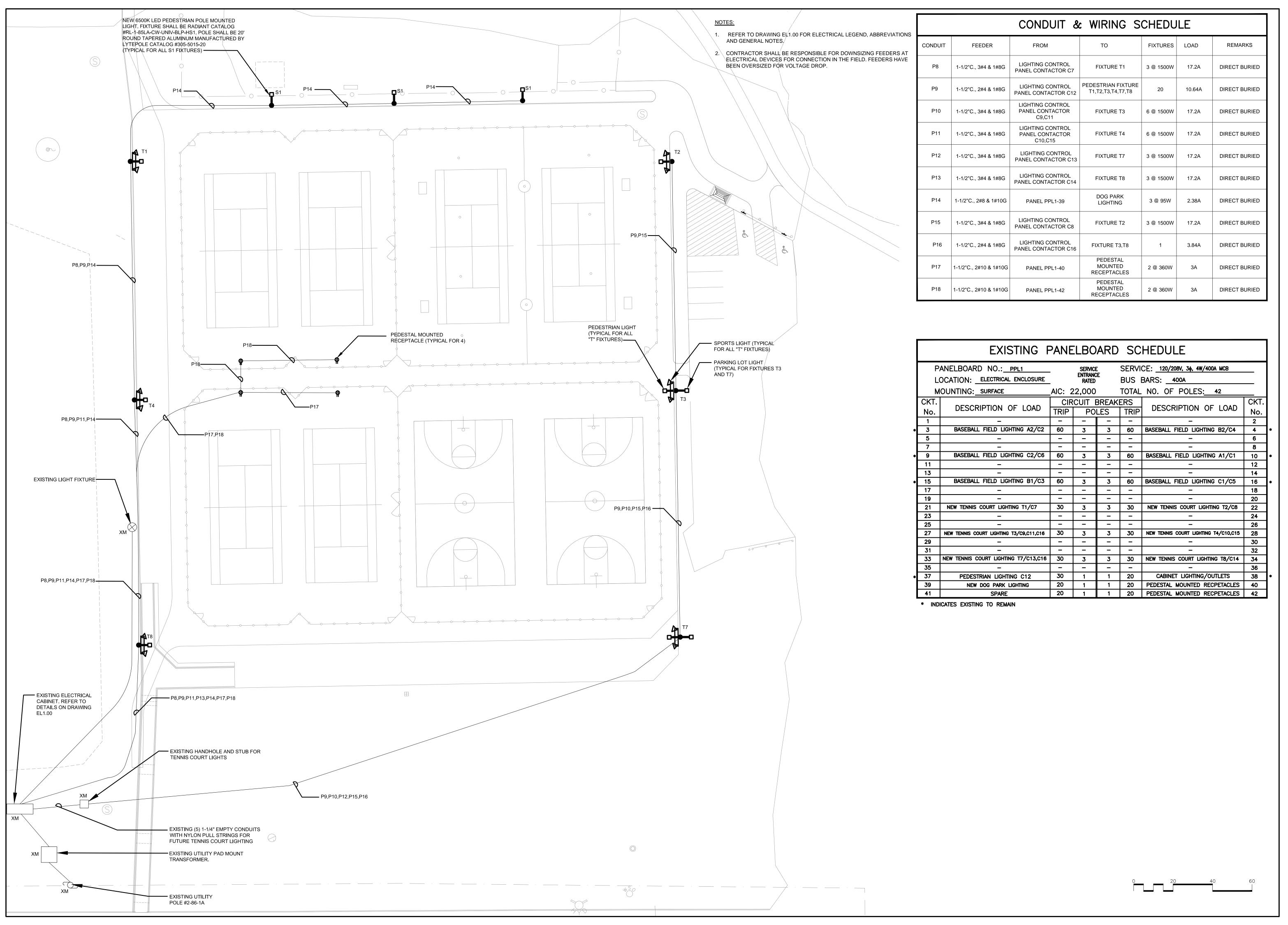
Consultants:



Revisions:			
Rev	Date	Description	
Seal:  PLANS FOR			
	CON	STRUCTION	
Da	te:	04.07.2016	
Sca	ale:	1" = 20'	
Dra	awn By:	DNM	
Reviewed By:			
Ch	Checked By:		
Ар	proved By:		

Drawing Title:

SOUTH MILL POND ELECTRICAL SITE EXISTING CONDITIONS/ DEMOLITION PLAN



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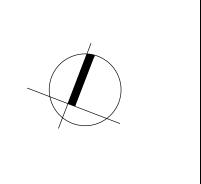
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North:



Rev Date Description

Seal:

PLANS FOR CONSTRUCTION

04.07.2016

Scale: 1" = 20'

Drawn By: DNM

Reviewed By:

Checked By:

Drawing Title:

SOUTH MILL POND ELECTRICAL SITE NEW WORK PLAN

heet Number:

**EL1.02**