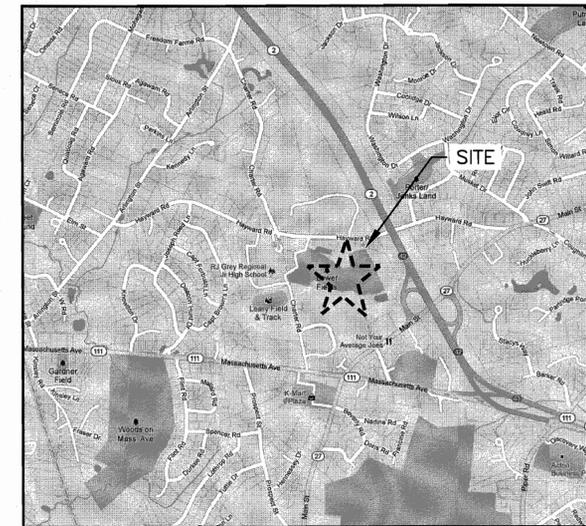


# NOTICE OF INTENT ACTON BOXBOROUGH REGIONAL HIGH SCHOOL LOWER FIELDS RENOVATIONS PROJECT ACTON, MA



LOCATION PLAN  
 SCALE: N.T.S.



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**PREPARED FOR:**

ACTON BOXBOROUGH REGIONAL SCHOOL DISTRICT  
 16 CHARTER ROAD  
 ACTON, MA 01720

**ENGINEER:**

GALE ASSOCIATES INC.  
 163 LIBBEY PARKWAY  
 WEYMOUTH, MA 02189  
 P: 781.335.6465

| DRAWING NUMBER | DRAWING DESCRIPTION                 |
|----------------|-------------------------------------|
| CIVIL          |                                     |
| G001           | COVER SHEET                         |
| C001           | EXISTING CONDITIONS                 |
| C002           | DEMOLITION AND EROSION CONTROL PLAN |
| C101           | LAYOUT AND MATERIALS PLAN           |
| C102           | GRADING PLAN                        |
| C103           | DRAINAGE PLAN                       |
| C501           | DETAIL SHEET 1 OF 5                 |
| C502           | DETAIL SHEET 2 OF 5                 |
| C503           | DETAIL SHEET 3 OF 5                 |
| C504           | DETAIL SHEET 4 OF 5                 |
| C505           | DETAIL SHEET 5 OF 5                 |

PROJECT  
 ACTON BOXBOROUGH REGIONAL HIGH SCHOOL  
 LOWER FIELDS RENOVATIONS PROJECT  
 36 CHARTER ROAD  
 ACTON, MA

OWNER  
 ACTON BOXBOROUGH REGIONAL SCHOOL DISTRICT  
 16 CHARTER ROAD  
 ACTON, MA

| REVISIONS |      |             |
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| CHECKED BY    | WJS/JMP     |
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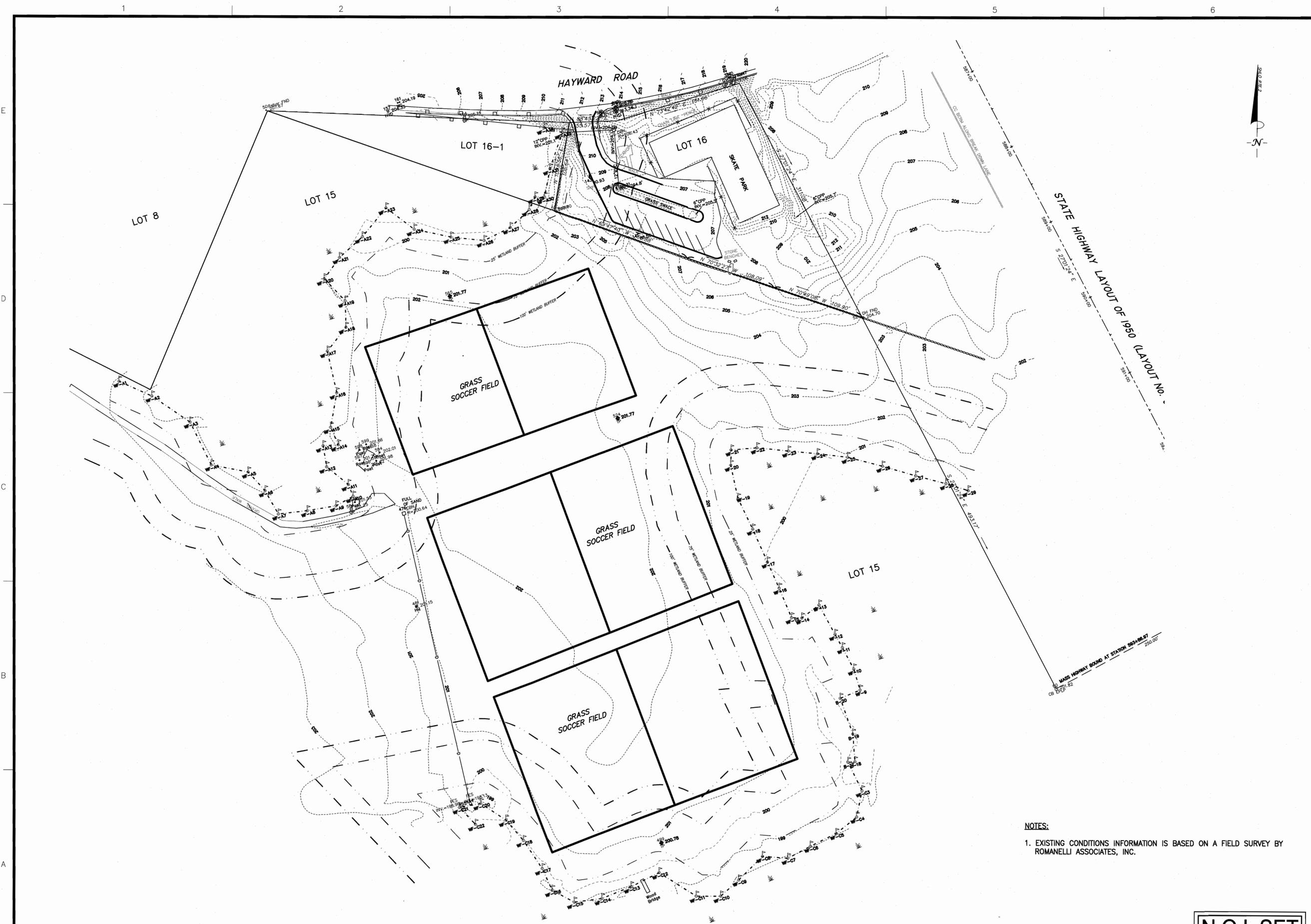
GRAPHIC SCALE

SHEET TITLE

COVER SHEET

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|                    | G001        |
| PROJECT NO. 715260 |             |

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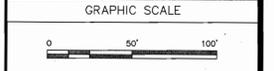
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PROJECT  
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SHEET TITLE

**EXISTING CONDITIONS PLAN**

NOTES:  
 1. EXISTING CONDITIONS INFORMATION IS BASED ON A FIELD SURVEY BY ROMANELLI ASSOCIATES, INC.

**N.O.I. SET**

DRAWING NO.

**C001**

PROJECT NO. 715260

**EROSION CONTROL NOTES:**

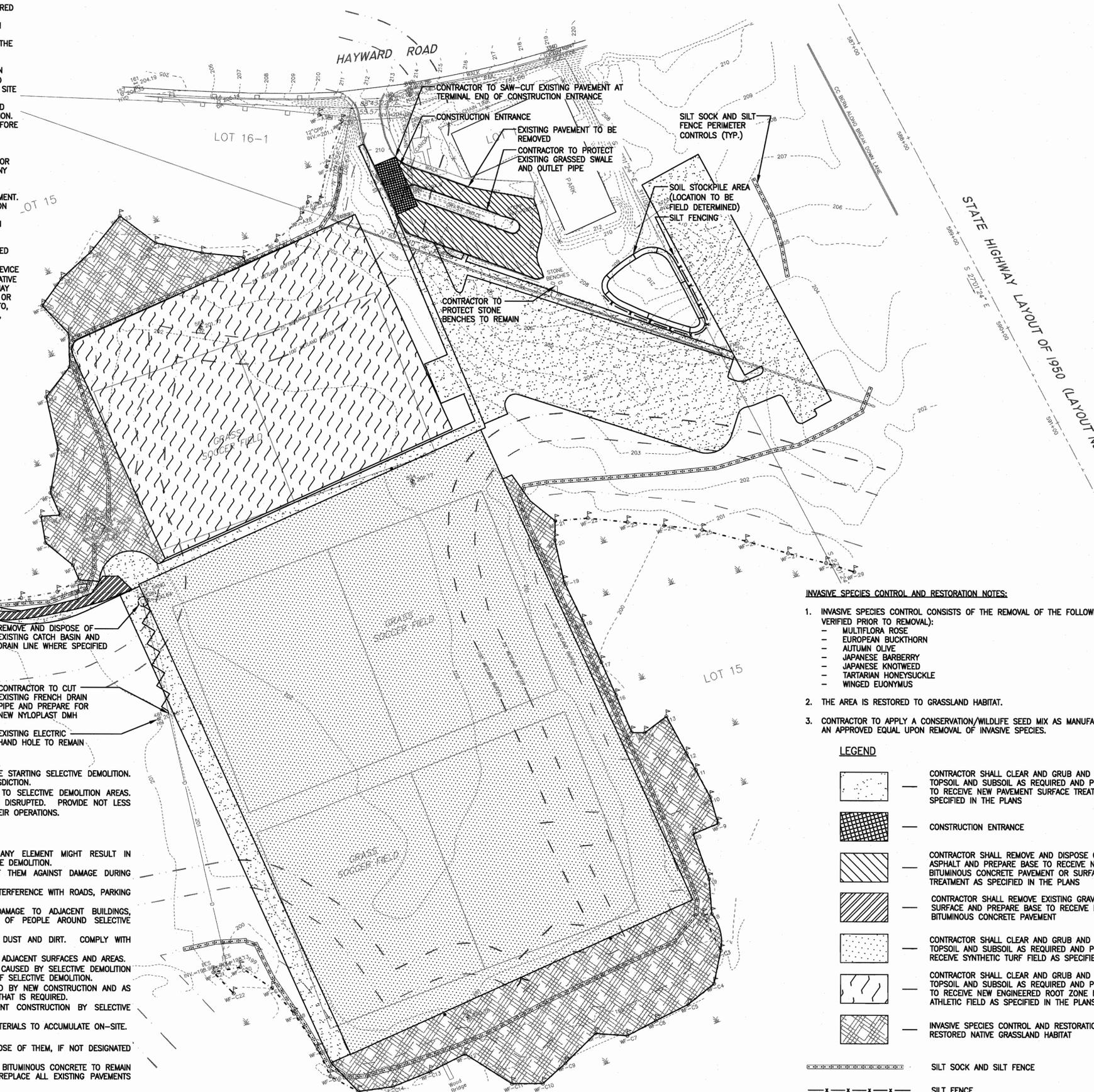
1. THE CONTRACTOR SHALL FILE A NPDES CONSTRUCTION GENERAL PERMIT AS REQUIRED BY THE EPA AT LEAST 7 DAYS PRIOR TO GROUNDBREAK.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE REGULATIONS AND ALL LOCAL MUNICIPAL REGULATIONS.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY SITE WORK OR EARTHWORK OPERATIONS, AND SHALL BE MAINTAINED DURING CONSTRUCTION.
4. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED SILTATION FENCES AND COVERED WITH A TARP TO PREVENT AND/OR CONTROL SILTATION AND EROSION. OTHERWISE SPOIL MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
5. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT AND BEFORE FORECASTED RAIN.
6. ALL SEDIMENTS MUST BE REMOVED PRIOR TO REACHING THE EXISTING DRAINAGE SYSTEMS AND/OR ANY ENVIRONMENTAL RESOURCE AREAS.
7. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE OWNER TO MITIGATE ANY EMERGENCY CONDITION.
8. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OUTSIDE OF CONSTRUCTION AREA MUST BE REMOVED IMMEDIATELY.
9. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE AND LOCAL EROSION AND SEDIMENTATION CONTROL GUIDELINES, AND ALL LOCAL MUNICIPAL REGULATIONS.
10. EROSION CONTROL DEVICES MAY BE ADDED OR REDUCED IN THE FIELD AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR IS RESPONSIBLE FOR REESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURBS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES WHICH MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO, EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, POINTS, SOLVENTS, GREASES, FUEL AND LUBE OIL, PESTICIDES, AND SOLID WASTE MATERIALS.

**DEMOLITION NOTES:**

1. DEMOLITION TO COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
2. THE OWNER MAY OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREAS. CONDUCT SELECTIVE DEMOLITION SO THAT OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72 HOURS NOTICE TO OWNER OF ACTIVITIES (IF ANY) THAT MAY AFFECT THEIR OPERATIONS.

**EXECUTION**

1. SURVEY THE CONDITION OF THE SITE TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN UNDESIRABLE DAMAGE OF ANY PORTION OF ADJACENT FACILITIES DURING SELECTIVE DEMOLITION.
2. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, PARKING LOTS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS, FACILITIES, AND SITE IMPROVEMENTS TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
5. USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.
6. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
7. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
8. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. CONTRACTOR TO BE RESPONSIBLE FOR ANY CUTTING AND PATCHING THAT IS REQUIRED.
9. PROMPTLY PATCH AND REPAIR HOLES AND DAMAGED SURFACES TO ADJACENT CONSTRUCTION BY SELECTIVE DEMOLITION OPERATIONS.
10. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
11. DO NOT BURN DEMOLISHED MATERIALS.
12. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM, IF NOT DESIGNATED TO BE SALVAGED BY THE OWNER OR REUSED.
13. IN AREAS WHERE BITUMINOUS CONCRETE IS TO BE REMOVED, THE EDGE OF ANY BITUMINOUS CONCRETE TO REMAIN MUST BE A CLEAN SAWCUT EDGE. CONTRACTOR SHALL SAWCUT, REMOVE AND REPLACE ALL EXISTING PAVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES.



**INVASIVE SPECIES CONTROL AND RESTORATION NOTES:**

1. INVASIVE SPECIES CONTROL CONSISTS OF THE REMOVAL OF THE FOLLOWING INVASIVE SPECIES FROM MARKED AREAS (TO BE VERIFIED PRIOR TO REMOVAL):
  - MULTIFLORA ROSE
  - EUROPEAN BUCKTHORN
  - AUTUMN OLIVE
  - JAPANESE BARBERRY
  - JAPANESE KNOTWEED
  - TARTARIAN HONEYSUCKLE
  - WINGED EUONYMUS
2. THE AREA IS RESTORED TO GRASSLAND HABITAT.
3. CONTRACTOR TO APPLY A CONSERVATION/WILDLIFE SEED MIX AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. OR AN APPROVED EQUAL UPON REMOVAL OF INVASIVE SPECIES.

**LEGEND**

- [Pattern: Dotted] CONTRACTOR SHALL CLEAR AND GRUB AND STRIP ALL TOPSOIL AND SUBSOIL AS REQUIRED AND PREPARE BASE TO RECEIVE NEW PAVEMENT SURFACE TREATMENT AS SPECIFIED IN THE PLANS
- [Pattern: Grid] CONSTRUCTION ENTRANCE
- [Pattern: Diagonal Lines] CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING ASPHALT AND PREPARE BASE TO RECEIVE NEW BITUMINOUS CONCRETE PAVEMENT OR SURFACE TREATMENT AS SPECIFIED IN THE PLANS
- [Pattern: Horizontal Lines] CONTRACTOR SHALL REMOVE EXISTING GRAVEL STONEDUST SURFACE AND PREPARE BASE TO RECEIVE NEW BITUMINOUS CONCRETE PAVEMENT
- [Pattern: Dotted] CONTRACTOR SHALL CLEAR AND GRUB AND STRIP ALL TOPSOIL AND SUBSOIL AS REQUIRED AND PREPARE BASE TO RECEIVE SYNTHETIC TURF FIELD AS SPECIFIED IN THE PLANS
- [Pattern: Wavy Lines] CONTRACTOR SHALL CLEAR AND GRUB AND STRIP ALL TOPSOIL AND SUBSOIL AS REQUIRED AND PREPARE BASE TO RECEIVE NEW ENGINEERED ROOT ZONE NATURAL TURF ATHLETIC FIELD AS SPECIFIED IN THE PLANS
- [Pattern: Cross-hatch] INVASIVE SPECIES CONTROL AND RESTORATION AREA, RESTORED NATIVE GRASSLAND HABITAT
- [Symbol: Dashed line with cross-ticks] SILT SOCK AND SILT FENCE
- [Symbol: Solid line with cross-ticks] SILT FENCE
- [Symbol: Zigzag line] EXISTING DRAIN LINE TO BE REMOVED
- [Symbol: Circle with cross-ticks] EXISTING STRUCTURES TO BE REMOVED

**N.O.I. SET**



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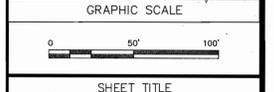
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PROJECT  
**ACTON BOXBOROUGH REGIONAL HIGH SCHOOL LOWER FIELDS RENOVATIONS PROJECT**  
36 CHARTER ROAD  
ACTON, MA

OWNER  
**ACTON BOXBOROUGH REGIONAL SCHOOL DISTRICT**  
16 CHARTER ROAD  
ACTON, MA

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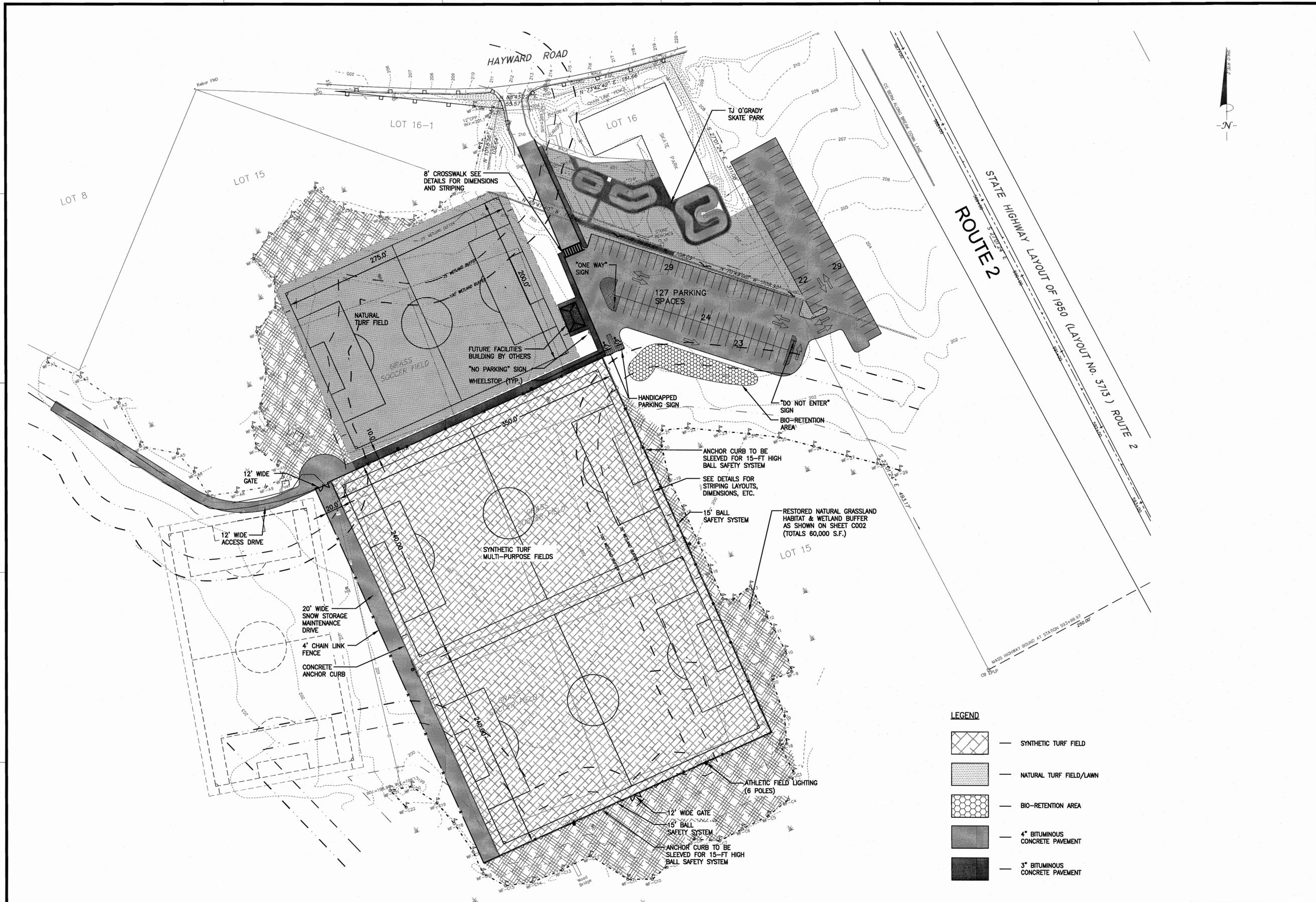
SHEET TITLE

**DEMOLITION AND EROSION CONTROL PLAN**

DRAWING NO. **C002**

PROJECT NO. 715260

REGISTERED PROFESSIONAL ENGINEER  
PETER SPANOS CIVIL No. 48467



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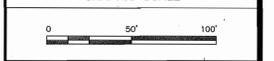
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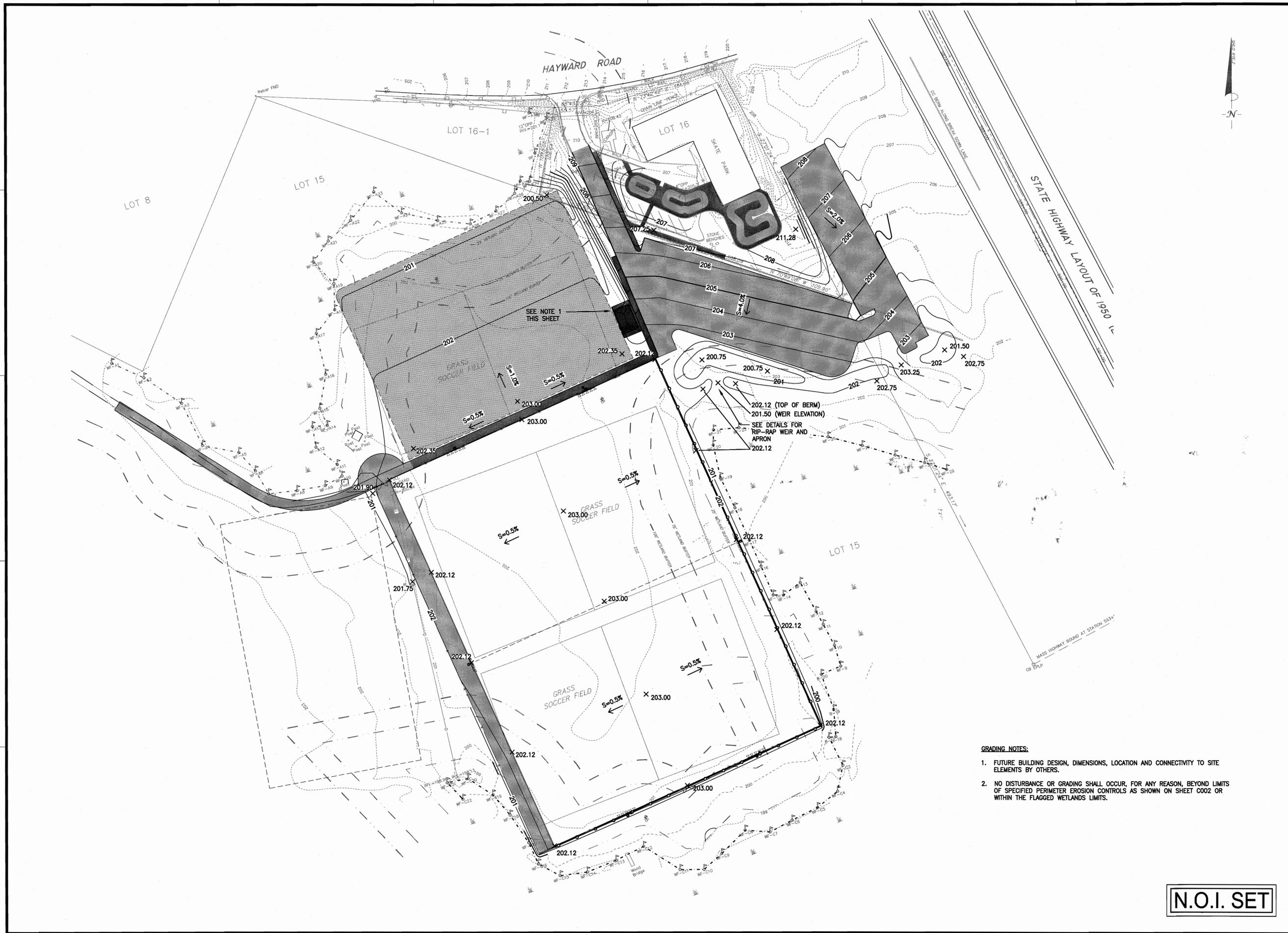
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**PROPOSED LAYOUT PLAN**

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|                    | DRAWING NO. |
|                    | <b>C101</b> |
| PROJECT NO. 715260 |             |

**N.O.I. SET**

- LEGEND**
- SYNTHETIC TURF FIELD
  - NATURAL TURF FIELD/LAWN
  - BIO-RETENTION AREA
  - 4" BITUMINOUS CONCRETE PAVEMENT
  - 3" BITUMINOUS CONCRETE PAVEMENT



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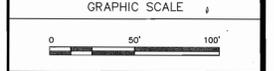
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SHEET TITLE

**GRADING PLAN**

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|                    | DRAWING NO. |
|                    | <b>C102</b> |
| PROJECT NO. 715260 |             |

- GRADING NOTES:**
- FUTURE BUILDING DESIGN, DIMENSIONS, LOCATION AND CONNECTIVITY TO SITE ELEMENTS BY OTHERS.
  - NO DISTURBANCE OR GRADING SHALL OCCUR, FOR ANY REASON, BEYOND LIMITS OF SPECIFIED PERIMETER EROSION CONTROLS AS SHOWN ON SHEET C002 OR WITHIN THE FLAGGED WETLANDS LIMITS.

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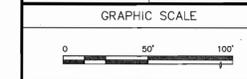
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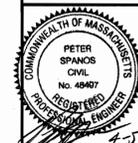
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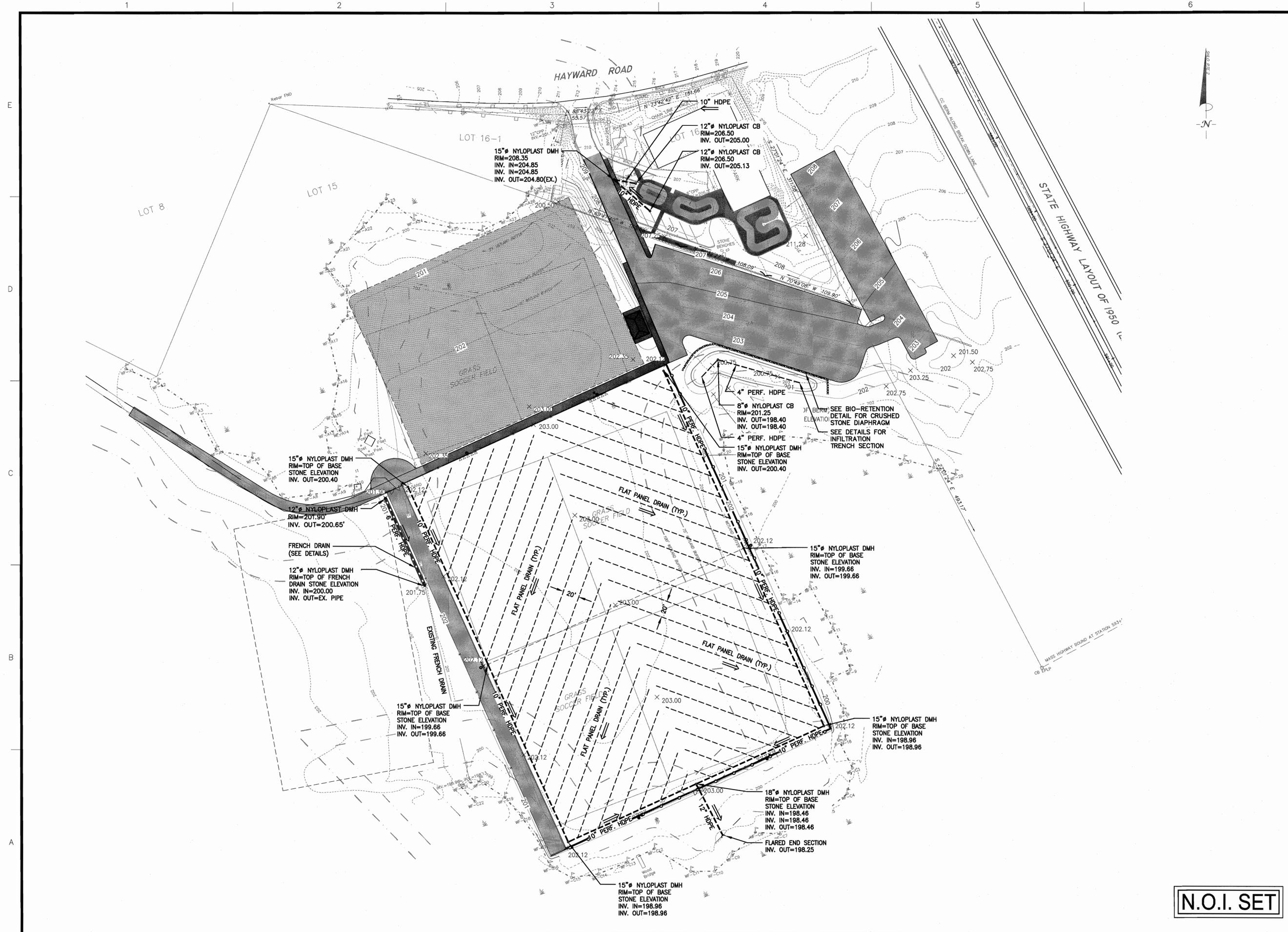
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DRAINAGE PLAN

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| PROJECT NO. | 715260 |

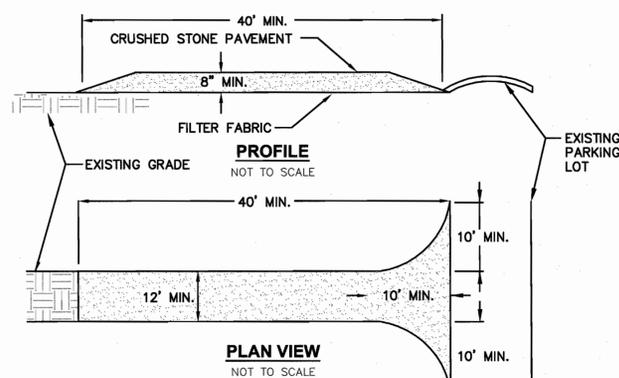


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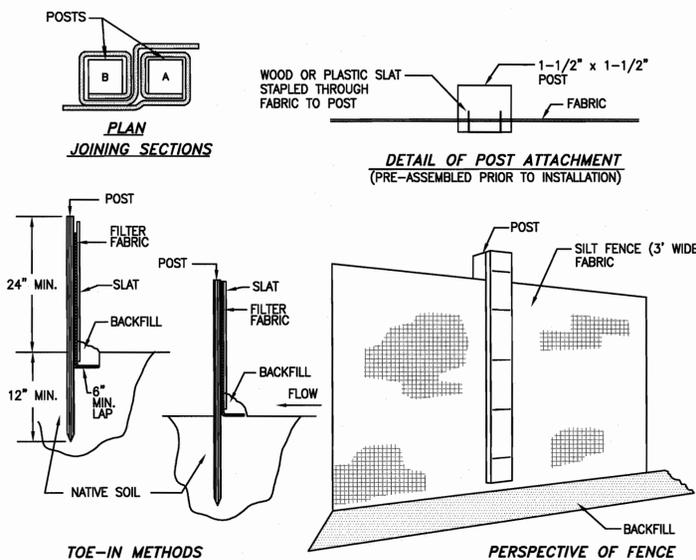
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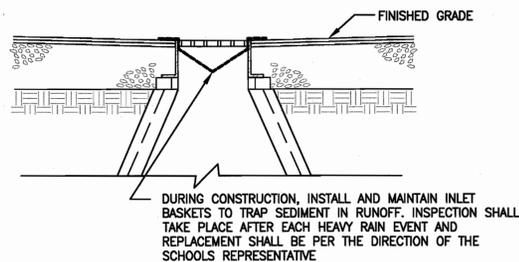
- NOTES:**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH - NOT LESS THAN 50 FEET.
  - THICKNESS - NOT LESS THAN (8) INCHES.
  - WIDTH - TWELVE (12) MINIMUM. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
  - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 6:1 SLOPES WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**STABILIZED CONSTRUCTION ENTRANCE**



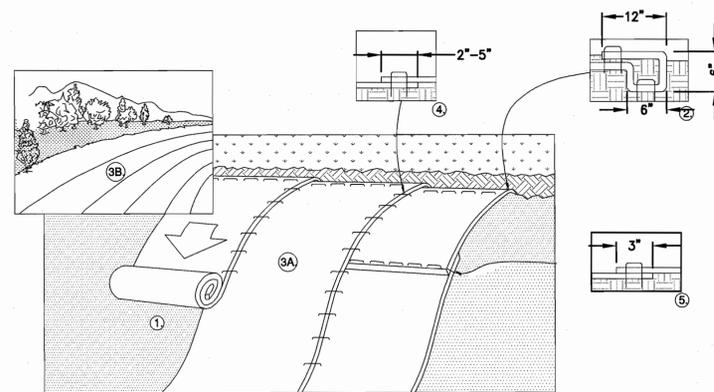
- NOTES:**
- EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
  - UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
  - DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
  - LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMPING FILL AT THE BASE.

**SILTATION FENCE DETAIL**



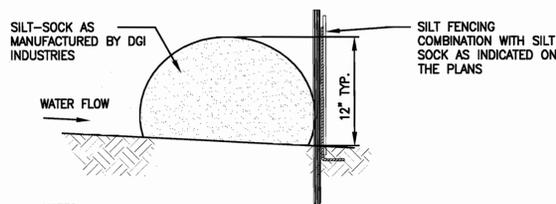
**CATCH BASIN SEDIMENT CONTROL DETAIL**

DURING CONSTRUCTION, INSTALL AND MAINTAIN INLET BASKETS TO TRAP SEDIMENT IN RUNOFF. INSPECTION SHALL TAKE PLACE AFTER EACH HEAVY RAIN EVENT AND REPLACEMENT SHALL BE PER THE DIRECTION OF THE SCHOOLS REPRESENTATIVE



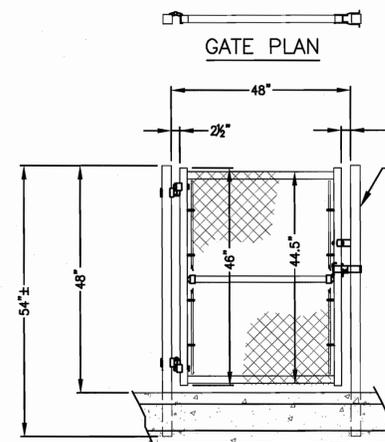
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

**EROSION MATTING DETAIL (SLOPES 4:1)**



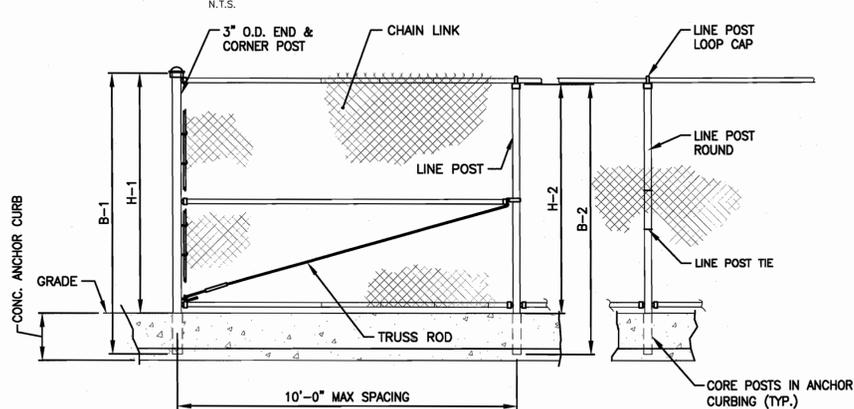
- NOTES:**
- THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
  - WHERE THE BERM REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
  - THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE ENGINEER.

**SILT SOCK EROSION CONTROL DETAIL**

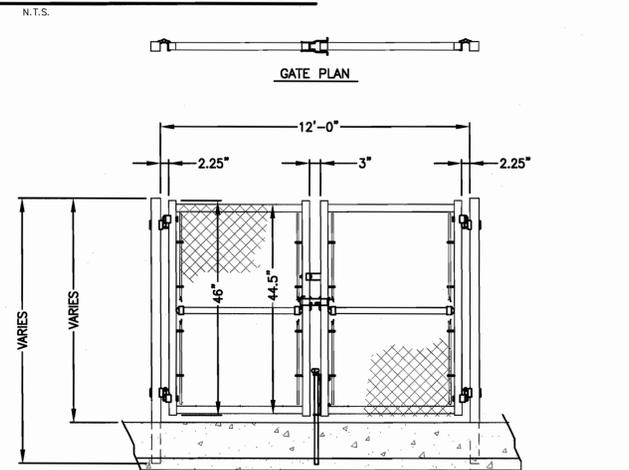


**4' WIDE SINGLE LEAF GATE DETAIL**

**CHAIN LINK FENCE & GATE NOTES**



**CHAIN LINK FENCE DETAIL**



**DOUBLE LEAF GATE DETAIL**

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

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

| SINGLE LEAF GATES   |                 |  |
|---------------------|-----------------|--|
| OPENING             | GATE POSTS      | HINGE SPACE (S)                              |
| FACE TO FACE        | SQ & RND SIZES  | POST TO UPRIGHT                              |
| 3'-0" THROUGH 6'-0" | 2 1/2" OR 3" OD | FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM] |

| DOUBLE LEAF GATES     |                |  |
|-----------------------|----------------|--|
| OPENING               | GATE POSTS     | HINGE SPACE (S)                              |
| FACE TO FACE          | SQ & RND SIZES | POST TO UPRIGHT                              |
| 12'-0" THROUGH 24'-0" | 3" SQ OR 4" OD | FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM] |

- NOTES:**
- ALL CHAIN LINK FENCE FABRIC SHALL BE KNUCKLED (TOP AND BOTTOM)
  - ALL CHAIN LINK FENCE POSTS, FABRIC, TIES AND MATERIALS SHALL BE BLACK PVC COATED, UNLESS OTHERWISE NOTED.
  - CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" & WIDER. CENTER RAIL REQUIRED ON GATE LEAVE 6'-0" & HIGHER.
  - CONCRETE FOOTINGS FOR FENCING NOT CORED INTO CONCRETE ANCHOR CURB SHALL BE FOUR (4) x THE POST DIAMETER, UNLESS OTHERWISE NOTED.



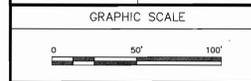
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ACTON BOXBOROUGH REGIONAL HIGH SCHOOL LOWER FIELDS RENOVATIONS PROJECT  
36 CHARTER ROAD  
ACTON, MA  
OWNER  
ACTON BOXBOROUGH REGIONAL SCHOOL DISTRICT  
16 CHARTER ROAD  
ACTON, MA

| REVISIONS |      |             |
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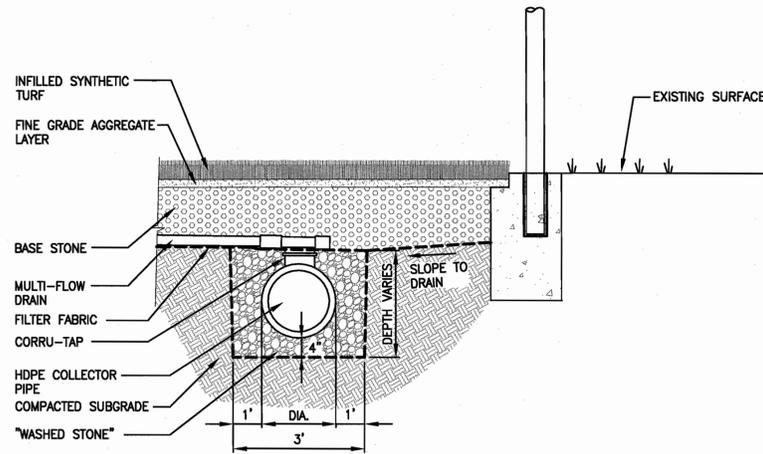
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| DRAWN BY      | WAH/BTC    |
| CHECKED BY    | WJS/JMP    |
| DATE          | 4-5-12     |
| DRAWING SCALE | 1"=50'-0"  |



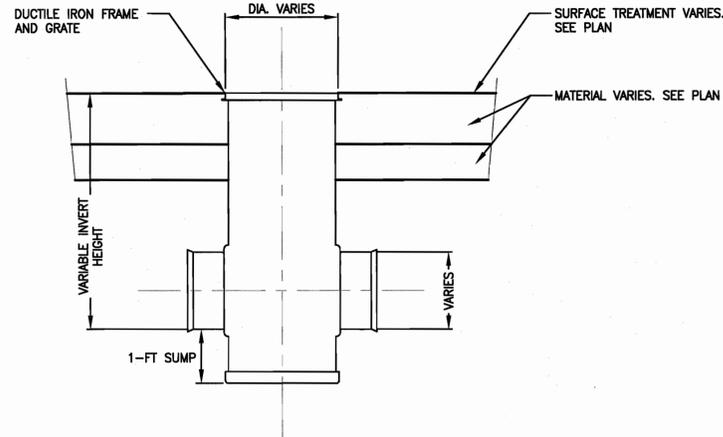
SHEET TITLE  
**DETAIL SHEET 1 OF 5**

DRAWING NO. **C501**  
PROJECT NO. 715260  
REGISTERED PROFESSIONAL ENGINEER  
PETER SPANOS  
CIVIL  
No. 48407  
MASSACHUSETTS

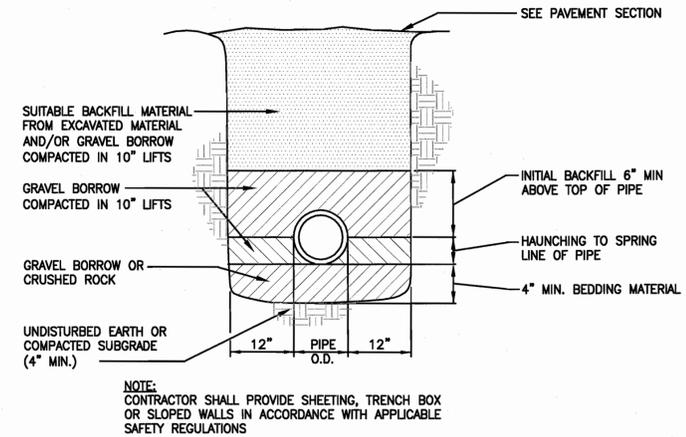
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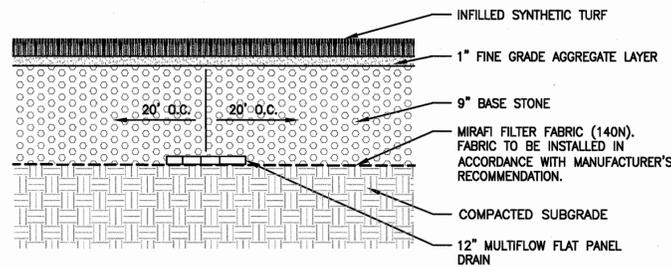
**TYPICAL COLLECTOR PIPE AND LATERAL CONNECTION**  
N.T.S.



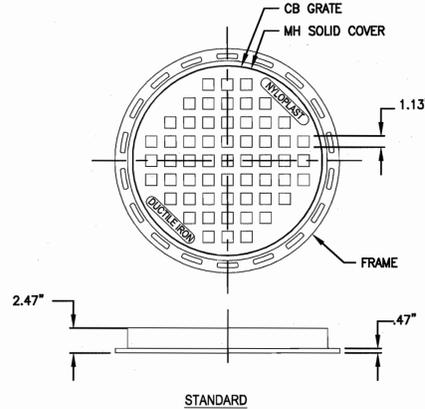
**PVC DRAIN MANHOLE OR CATCH BASIN**  
N.T.S.



**NON-PERFORATED HDPE TRENCH DETAIL (UP TO 24" DIA)**  
N.T.S.

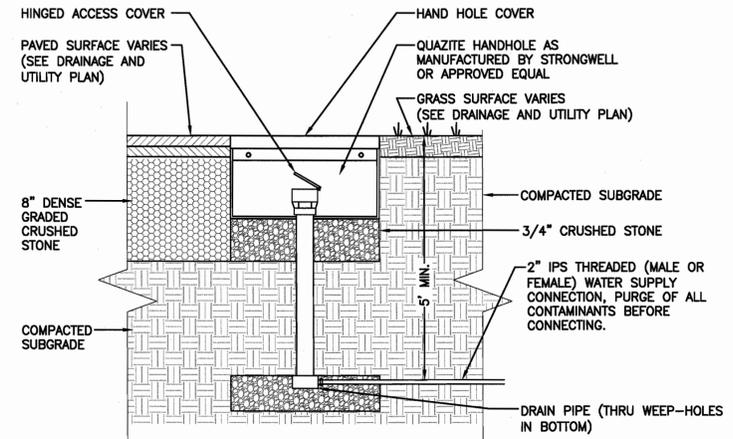


**FIELD UNDERDRAIN**  
N.T.S.



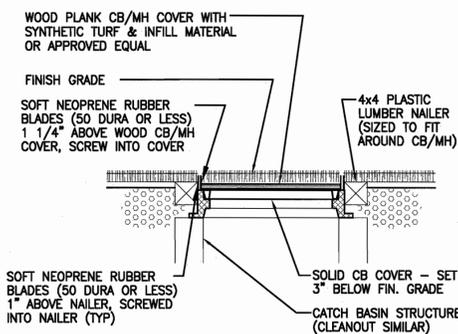
- NOTES:**
- STANDARD MANHOLE SOLID COVER HAS H-25 HEAVY DUTY RATING
  - STANDARD CATCH BASIN GRATE HAS H-25 HEAVY DUTY RATING
  - QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
  - MATERIAL: DUCTILE IRON
  - PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
  - LOCKING DEVICE 5/16-18 ZINC GOLD HEX BOLT 1" LG USE 1/2" SOCKET TO REMOVE, 2 PLACES

**NYLOPLAST MH/CB COVER**  
N.T.S.



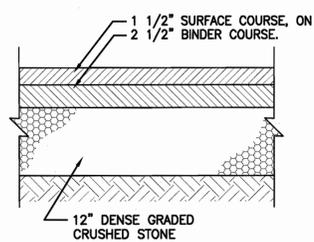
- NOTE:**
- YARD HYDRANT SHALL BE M-475 AS MANUFACTURED BY MURDOCK.
  - BOX TO BE SET ON 12" LAYER OF 3/4" CRUSHED STONE. BOTTOM TO BE PERFORATED TO PERMIT PROPER DRAINAGE.

**WATER COUPLING/ DISCONNECT**  
N.T.S.

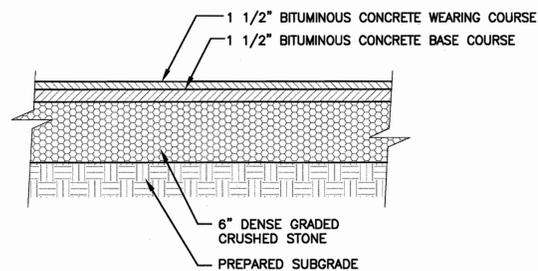


- NOTES:**
- THE TURF MANUFACTURER MAY SUGGEST THE USE OF ANOTHER PRACTICE WHERE THE ENGINEER SPECIFIES THIS DETAIL. THE ALTERNATIVE PRACTICE SHALL REQUIRE THE APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.

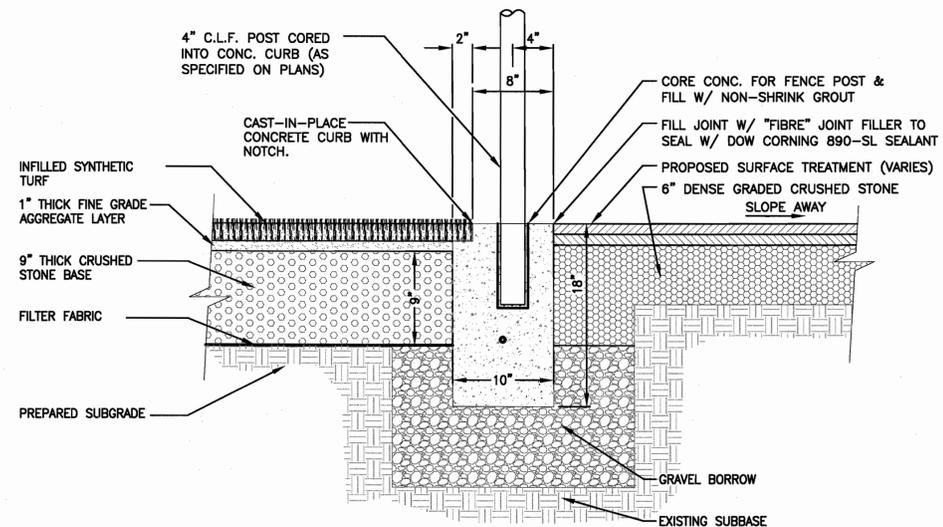
**MANHOLE COVER AT SYNTHETIC TURF**  
N.T.S.



**4" BITUMINOUS CONCRETE PAVEMENT**  
N.T.S.



**3" BITUMINOUS CONCRETE PAVEMENT**  
N.T.S.



- NOTE:**
- PROVIDE CONTROL JOINTS (PRE FORMED) AT 6' O.C. CONTROL JOINT TO BE 3/8" WIDE x 1/2" DEEP.
  - PROVIDE EXPANSION JOINTS AT 12' O.C.
  - CONCRETE SHALL BE 4,000 PSI MIX WITH A MAX AGGREGATE SIZE OF 3/4"

**CONCRETE ANCHOR CURB W/ FENCE**  
N.T.S.



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LOWER FIELDS RENOVATIONS PROJECT  
36 CHARTER ROAD  
ACTON, MA

OWNER  
ACTON BOXBOROUGH REGIONAL SCHOOL DISTRICT  
16 CHARTER ROAD  
ACTON, MA

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| DRAWING SCALE | 1"=50'-0"  |

GRAPHIC SCALE  
0 50' 100'

SHEET TITLE

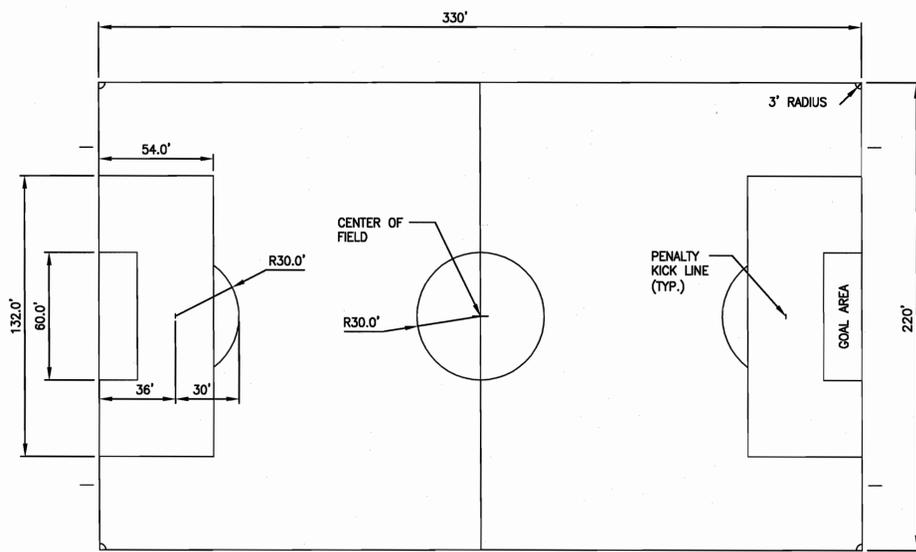
DETAIL SHEET  
2 OF 5

DRAWING NO. **C502**

PROJECT NO. 715260

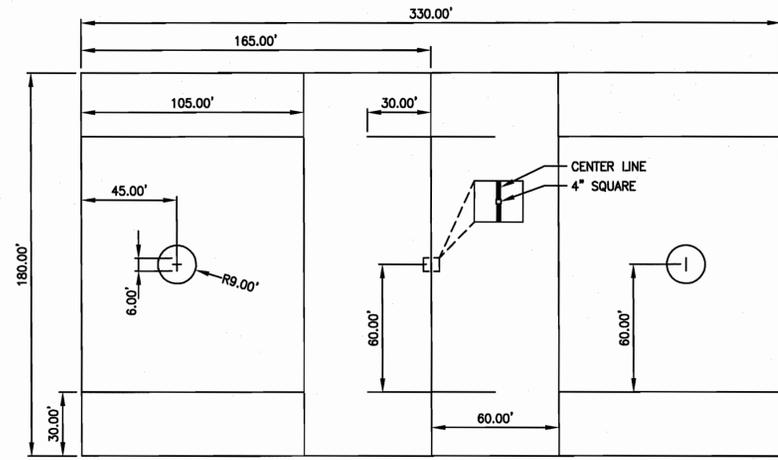
**N.O.I. SET**

REGISTERED PROFESSIONAL ENGINEER  
PETER SPANOS  
CIVIL  
No. 48407



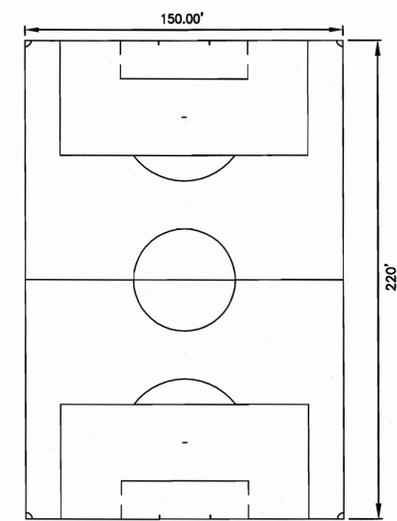
**SOCCER STRIPING DETAIL (TUFTED YELLOW)**

N.T.S.



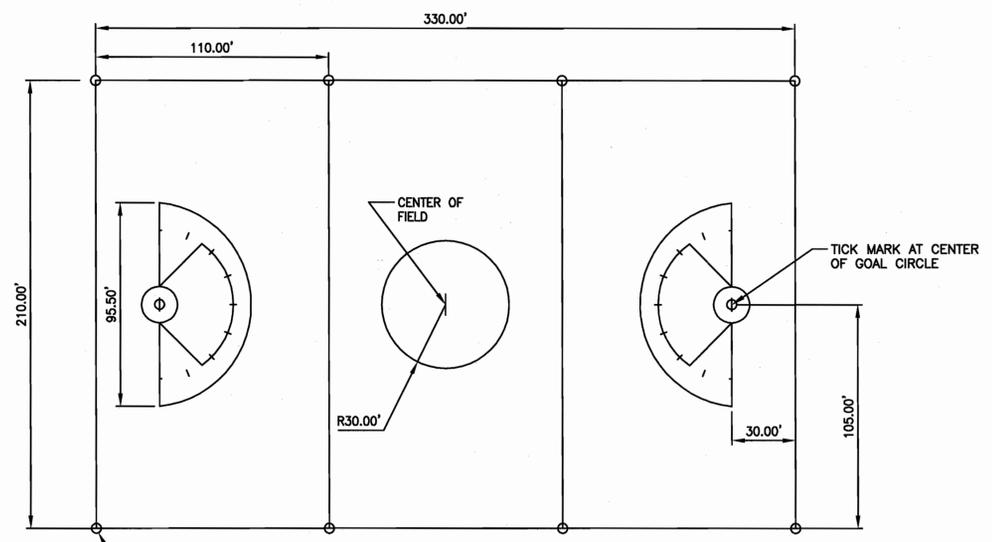
**MEN'S LACROSSE STRIPING DETAIL (TUFTED BLUE)**

N.T.S.



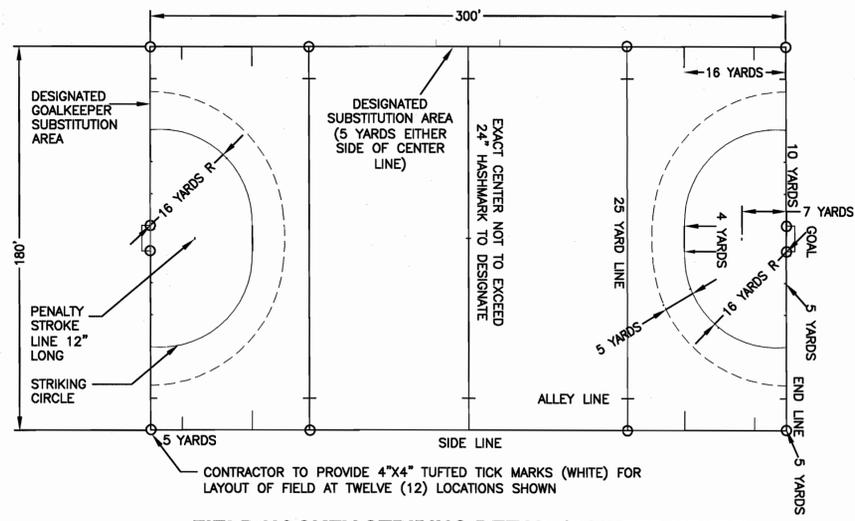
**U10 SOCCER FIELD TRANSVERSE DIRECTION (8 VS. 8)**

N.T.S.



**WOMEN'S LACROSSE STRIPING DETAIL (RED)**

N.T.S.



**FIELD HOCKEY STRIPING DETAIL (PAINTED WHITE)**

N.T.S.



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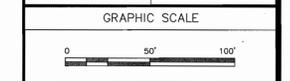
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**PROJECT**  
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 ACTON, MA

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SHEET TITLE

DETAIL SHEET  
 3 OF 5

DRAWING NO. **C503**

PROJECT NO. 715260

REGISTERED PROFESSIONAL ENGINEER  
 PETER SPANOS  
 No. 49407  
 COMMONWEALTH OF MASSACHUSETTS

**N.O.I. SET**

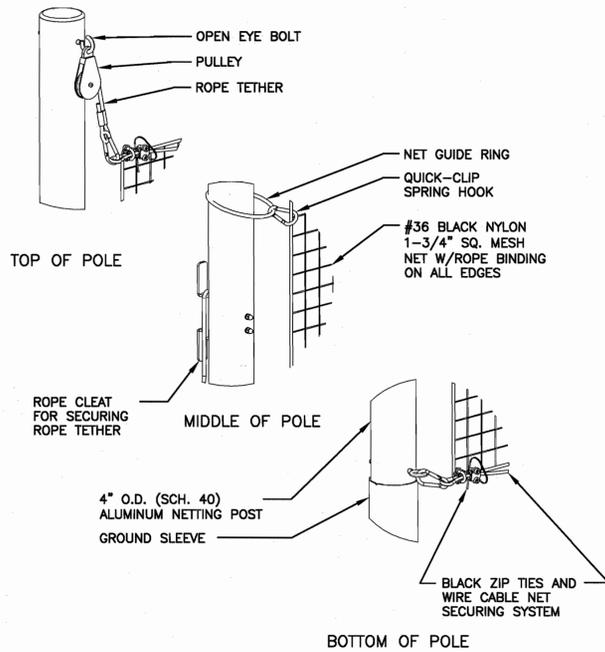




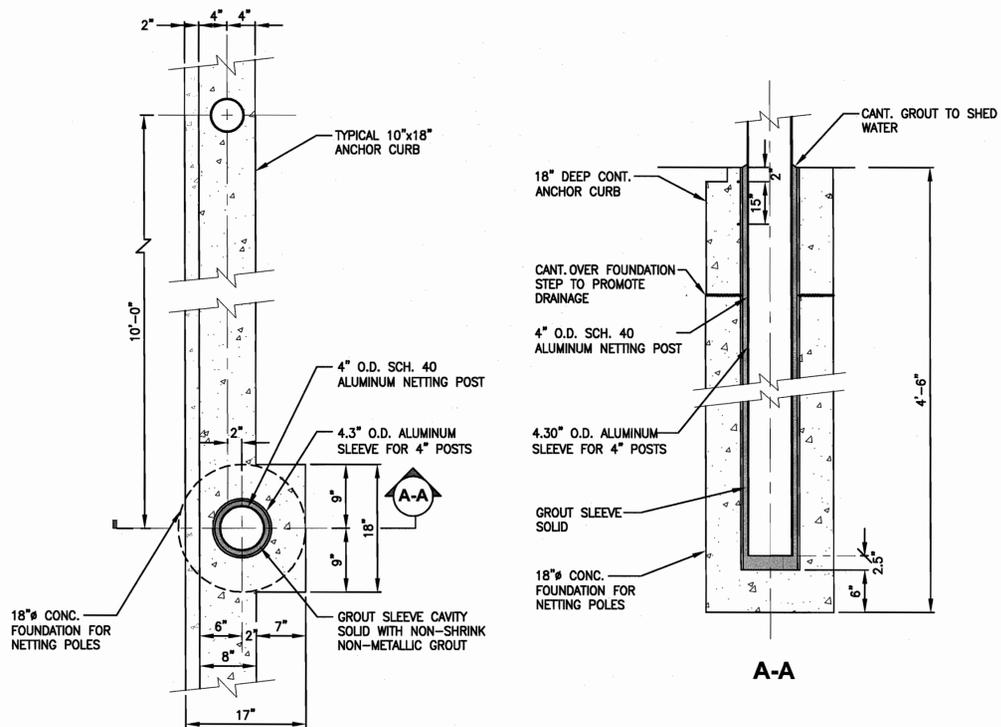
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 ACTON, MA



**4" STRAIGHT POLE BALL SAFETY SYSTEM**  
 N.T.S.

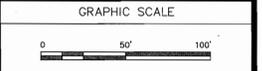


**15' NETTING POST FOUNDATION DETAIL**  
 N.T.S.

**SECTION AT 15' NETTING POST FOUNDATION**  
 N.T.S.

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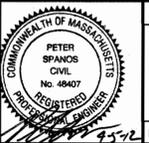
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DRAWING NO.

**C505**

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