



ARCHITECTURE  
ENGINEERING

# ADDENDUM TO CONTRACT DOCUMENTS

**Date:** December 19, 2017

**To:** Bidders

**From:** Jon Falkowski, Becker Morgan Group, Inc.

**Copies:** All Attending Pre-Bid Meeting, see attached sign-in sheet  
Marcin Michalski, Supervisor of Facilities and maintenance  
Emily Ryan, Data Service Center

**Project:** **Conrad School of Science Athletic Fields**  
Wilmington, Delaware

**Project Number:** BMG Project No. 2013222.01

**Contract No.:** 2-18-09

**Subject:** **ADDENDUM NO. 02**

**NOTICE:** Attention is called to the following item(s), effective as of the date above, which shall be added to, deleted from, or changed in the contract documents dated November 13, 2017, and any previously issued addenda, thereby incorporating these items into the contract.

**RFI's**

*(Italicized questions still pending)*

*(Shaded questions answered in previous Addenda)*

<b>LandTel Group RFI 01</b>	
Item	Description
1	<p>Q: Please confirm the above referenced project is currently out to bid, as we read conflicting information from various bid notice sites. If it is, could you provide and estimate of the start and finish dates. Is the information regarding purchasing the documents correct: \$25 from Becker Morgan Group?</p> <p>A: Bidders should be using the Delaware bid portal MyMarketPlace for bid information. No estimates will be released at this time. Currently the schedule is included in the Project Manual as start upon receipt of Notice to Proceed and completion in 180 days. The schedule will be amended by Addendum. Bid documents are available from Becker Morgan Group, Inc., 309 South Governors Ave., Dover, DE 19904, 302-734-7950, please call in advance.</p>
<b>The Perfect Mound RFI 01</b>	
Item	Description
1	<p>Q: The Perfect Mound, manufactures portable pitching mounds and I would like to know how I can get our mound approved as an alternative to the one listed in your bid documents so that general contractors have the option to spec us into their bid.</p> <p>A: Currently we are not inclined to approve a portable synthetic surface mound in lieu of the naturally formed, diamond-tex with clay bricks design, per the owner's request.</p>

<b>Precision Sports Surfaces, Inc. RFI 01</b>	
Item	Description
1	Q: Is there an estimated or desired completion date for the running track surface? A: No later than April 2019
2	Q: What are the liquidated damages for the project? A: There are no liquidated damages.
3	Q: Regarding spec section 321818, please approve our equivalent running track surface system (Spartan BS (RED) manuf. by APT). I have attached specifications, references and additional documents for your review. A: Approved.
<b>Grassbusters RFI 01</b>	
Item	Description
1	Q: I have sent out electrical information to 3 separate contractors for bidding and they are asking what size conduit and wiring do you want to use for wiring the scoreboards? Is Becker Morgan going to provide details or do you want them to bid Design/Build?  A: Design/Build to provide electric to the relocated scoreboards and new scoreboards. Design should include all necessary appurtenances (Junction/Pull boxes, conduits, etc.).
2	Q: As per detail sheet C-902, there is a proposed 6" concrete curb running the entire interior of the running track. Is this to be included in the base bid for the football field or the alternate for the track? I am just trying to be certain exactly what is to be included in the alternate for the new synthetic track construction. A: Yes, track interior curbing to be included in base bid for alternate no. 4. All work associated with phase 2 including track and field work, etc. is base bid within alternate no. 4. See revised alternates specification 012300 section 3.1 D2 for further description of scope.
3	Q: In addition on plan sheet C-201, item G-5 calls out for a proposed retaining wall per architectural plans. I don't see any detail for a retaining wall. There is currently an existing concrete wall around outside of football field. A: Retaining wall detail and wall mounted fence detail provided with this addendum.
<b>A-Del Construction RFI 01</b>	
Item	Description
1	Q: Are there any soil boring logs available? What is the existing depth of Topsoil on site? What depth of topsoil respread is required? A: Three boring logs were taken on the Conrad site in an effort to find infiltration. Attached logs show an average depth of 8" of topsoil. No logs are available at the Richey Site. There shall be a minimum of 6" of topsoil spread for seed installation on field areas, meeting topsoil specifications.
<b>American Athletic Courts, Inc.</b>	
Item	Description
1	Q: On the softball backstop the plan says 24'H however on the detail is shows an 18'H backstop, also the detail shows a 20' Back x 25' Wings, however when you scale it on the plan it shows 20' Back x 40' Wings. Which is correct? A: Detail dimensions revised. See Conrad Phase 1 – Sheet C-902 attached.
2	Q: On the baseball backstop the detail shows 50' Back x 50' Wings, however on the plan it scales 25' Back x 50' Wings which is correct? A: Detail dimensions revised. See Richey Plans – Sheet C-901 and C-902 attached.
3	Q: The right field fence on the softball field is a bit confusing, I believe 115 LF of the right field fence is going to be the existing tennis court fence? Is that correct?

	A: Correct, right field fence is shared with tennis court fence.	
4	Q: Can you provide an athletic field detail for topsoil thickness, subgrade prep and seed/sod? A: Please refer to Specification section 329400 – Natural Grass Playing Field	
5	Q: Please provide a detail for the proposed retaining wall for the track and also the delineation of demo. A: Retaining Wall detail and Wall Fencing details have been added to the plans. See Conrad Phase 2 – Sheets C-901 and C-903. All wall/curbing to demolished except the 270 +/- l.f. as delineated on sheet C-201.	
6	Q: Is there an existing topographic survey that is more detailed? A: Associated C-101 sheets are what is currently available. If there is specific information needed, please detail your request.	
7	Q: <i>Is there going to be an alternate for sod in lieu of seed as discussed at the pre-bid?</i> A:	
8	Q: Does the import topsoil need to be amended or can we use a top quality screened native topsoil as a cost savings to the owner? The owner may end up with several different types of soils if not. A: Topsoil must meet specification requirements whether amended or native.	
9	Q: Are there bidder qualifications for the athletic field construction such as a CFB (Certified Field Builder per American Sports Builders Assoc) with a minimum of 10 athletic fields constructed within the last 3 years? A: CFB qualifications not required for fields however, contractor will be held to strict subgrade and finish grade tolerance requirements as indicated on the drawings. In addition, see specification SECTION 329400 – NATURAL GRASS PLAYING FIELD for quality assurance and tolerance specifications as well as the contract drawings.	
10	Q: Are there bidder qualifications for the track construction portion such as a minimum of 10 track construction projects within the last 3 years. Is the bidder required to be a CTB (Certified Track Builder As per the American Sports Builders Association)? Asphalt paving contractor requirements? The measure line is not in lane #1 and will require an experienced track construction contractor to assure proper layout and design criteria is met A: Bidder qualifications added. See revised SYNTHETIC TRACK SURFACING SYSTEM specification and new specification section 321216 - Asphalt Paving.	
11	Q: Does the existing topsoil need to be removed if the area requires import fill/topsoil? A: Existing topsoil should be stripped a minimum of 8" depth and subgrade shall be brought to elevation with suitable fill. Topsoil should then be applied at the depths indicated in the specifications (min. 6") and meeting all specification requirements.	
12	Q: <i>Can a BSS-200 sealed system be included as an alternate?</i> A:	

**PROJECT MANUAL CHANGES:**

Item	Description
1	Section 000110 – Table of Contents A. Add Section 012200 Unit Prices, 2 pages. B. Add Section 321216 Asphalt Paving, 8 pages
2	Section 321216 – ASPHALT PAVING A. Add entire new section Asphalt Paving, dated 12/15/17.
3	Section 321818 – SYNTHETIC TRACK SURFACING SYSTEM A. Delete entire section, substitute revised section dated 12/15/17.

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**DRAWING CHANGES:**

Item	Description
1	Conrad Phase 1 – Sheet C-902 – Softball backstop and gate clarifications.
2	Conrad Phase 2 – Sheet C-201 – revised Note G-5 Retaining Wall revised Note G-11 Chain link Fence
3	Conrad Phase 2 – Sheet C-401 – revised grading (southwest corner) as shown.
4	Conrad Phase 2 – Sheet C-901 – added Chain Link Fence Detail
5	Conrad Phase 2 – Sheet C-903 – added Retaining Wall Detail, Chain link Fence Detail (Surface Mount) and Fence Post Base Plate Detail.
6	Richey Elementary – Sheet C-901 – Baseball backstop and gate clarifications.
7	Richey Elementary – Sheet C-902 – Baseball backstop and gate clarifications.

**LIST OF ATTACHMENTS**

Item	Description	
1	Specification Section 000110 – Table of Contents	12/19/17
2	Specification Section 321216 – Asphalt Paving	12/19/17
3	Specification Section 321818 – Synthetic Track Surfacing System	12/19/17
4	Conrad Ph1 Sheet C-902	12/18/17
5	Conrad Ph2 Sheet C-201	12/18/17
6	Conrad Ph2 Sheet C-401	12/18/17
7	Conrad Ph2 Sheet C-901	12/18/17
8	Conrad Ph2 Sheet C-903	12/18/17
9	Richey Sheet C-901	12/18/17
10	Richey Sheet C-902	12/18/17
11	Record of Soil Exploration Logs (B-1, B-2, B-3) Conrad Site	09/15/17
12	201322201-Conrad-Boring-Map	06/30/17

**END OF ADDENDUM # 02**

201322201\_Addn02.doc



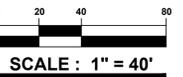
PROJECT TITLE  
APPLICATION NO. 2017-0445

**CONRAD SCHOOLS OF SCIENCE: ATHLETIC FIELDS**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
CHRISTIANA HUNDRED

SHEET TITLE

**CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN**



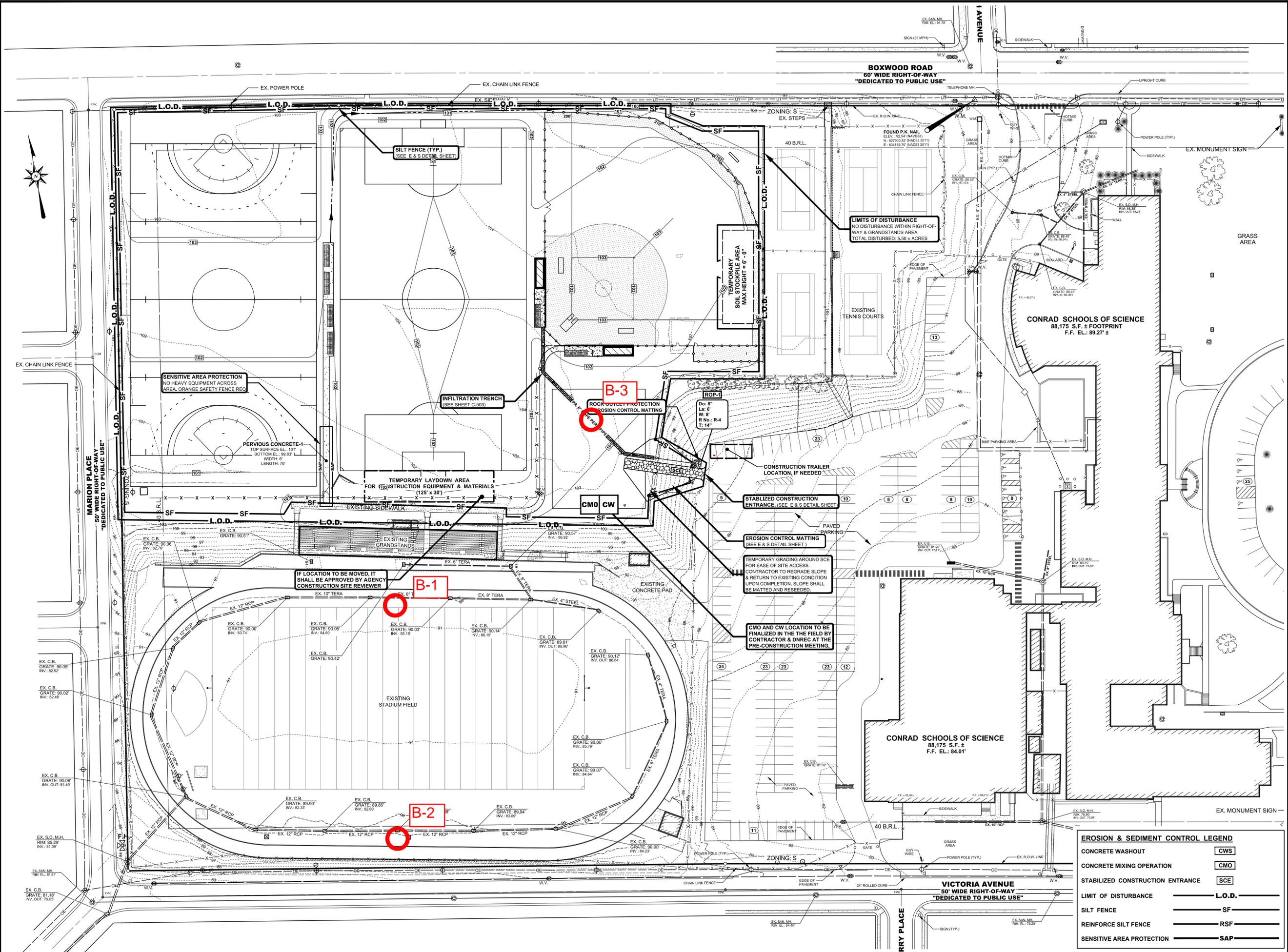
ISSUE BLOCK

MARK	DATE	DESCRIPTION
LAYER:STATE	C-502	

PROJECT NO.: 2013222.01  
DATE: 6/30/17  
SCALE: 1" = 40"  
DRAWN BY: R.J.M. PROJ. MGR.: J.S.F.  
SHEET

**C-502**

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**EROSION & SEDIMENT CONTROL LEGEND**

CONCRETE WASHOUT	CWS
CONCRETE MIXING OPERATION	CWO
STABILIZED CONSTRUCTION ENTRANCE	SC
LIMIT OF DISTURBANCE	L.O.D.
SILT FENCE	SF
REINFORCE SILT FENCE	RSF
SENSITIVE AREA PROTECTION	SAP



PROJECT TITLE  
APPLICATION NO. 2017-0445

**CONRAD SCHOOLS OF SCIENCE: ATHLETIC FIELDS**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
NEW CASTLE COUNTY

SHEET TITLE

**CONSTRUCTION DETAILS**

ISSUE BLOCK

NO.	DATE	DESCRIPTION
1	11/13/17	ISSUE FOR BID
2	12/18/17	ADDENDUM 2

MARK DATE DESCRIPTION

LAYER/STATE: 0/50

PROJECT NO.: 2013222.01

DATE: 6/30/17

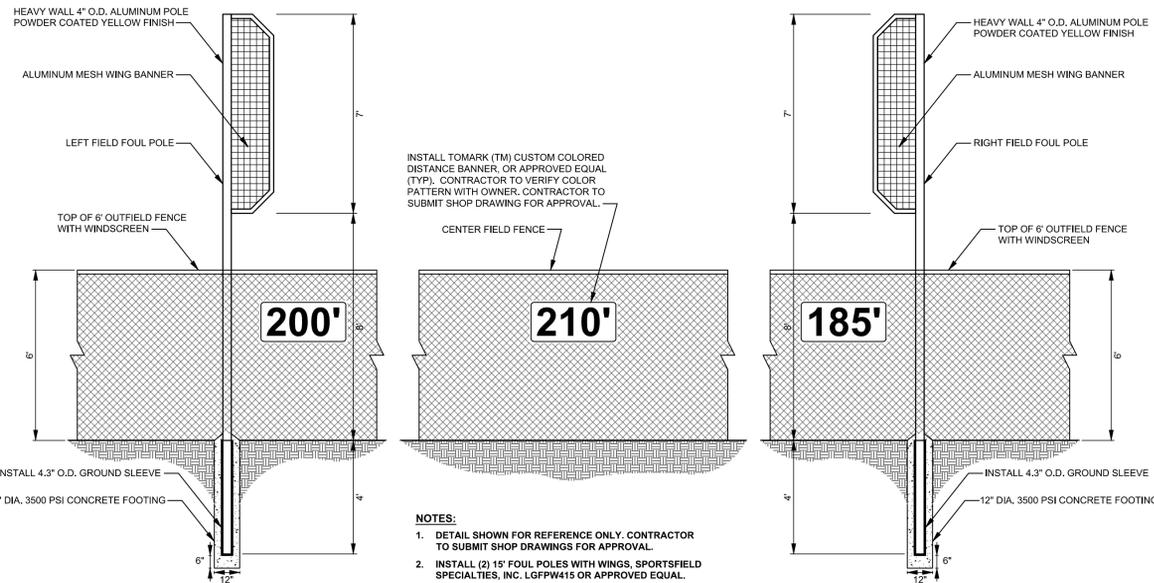
SCALE: AS SHOWN

DRAWN BY: R.J.M. PROJ. MGR.: J.S.F.

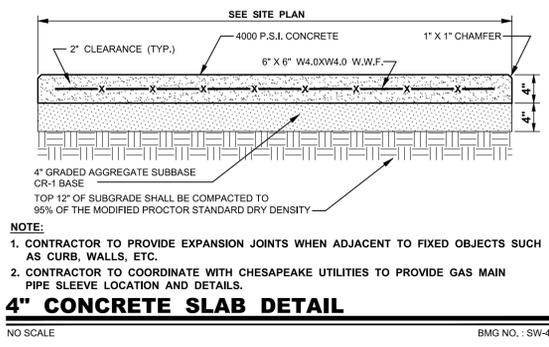
SHEET

**C-902**

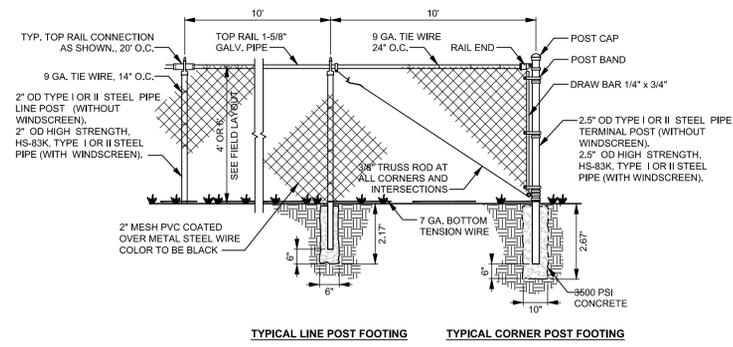
COPYRIGHT 2015



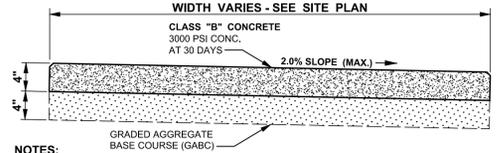
- NOTES:**
1. DETAIL SHOWN FOR REFERENCE ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
  2. INSTALL (2) 15' FOUL POLES WITH WINGS, SPORTSFIELD SPECIALTIES, INC. LGFPW415 OR APPROVED EQUAL.



- NOTES:**
1. CONTRACTOR TO PROVIDE EXPANSION JOINTS WHEN ADJACENT TO FIXED OBJECTS SUCH AS CURB, WALLS, ETC.
  2. CONTRACTOR TO COORDINATE WITH CHESAPEAKE UTILITIES TO PROVIDE GAS MAIN PIPE SLEEVE LOCATION AND DETAILS.
- 4\"/>**



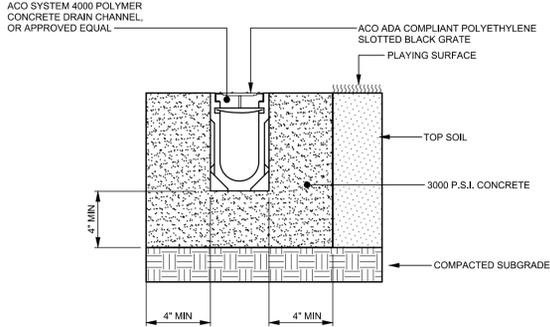
- NOTES:**
1. FENCE POSTS SHALL BE INSTALLED ON OUTSIDE PERIMETER OF FENCE.
  2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
  3. ALL FENCE MATERIAL SHALL BE VINYL PVC COATED OVER METAL. COLOR TO BE BLACK.
  4. SEE SOFTBALL FIELD LAYOUT FOR FENCE HEIGHT LOCATIONS.



- NOTES:**
1. MARK IN 4\"/>
  2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER SPECIFICATIONS.

**CONCRETE SIDEWALK DETAIL**

NO SCALE BMG NO.: SW-43C



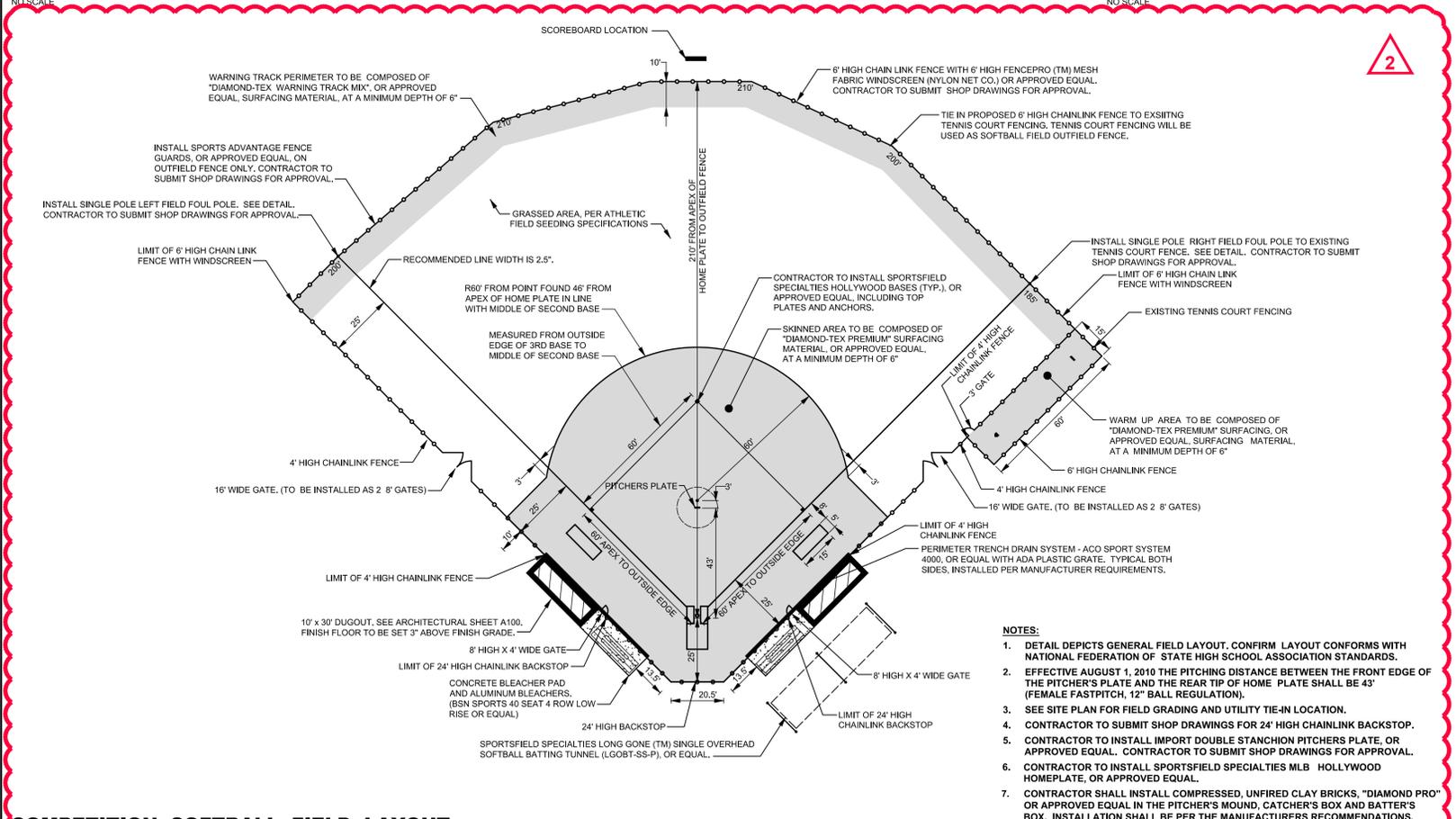
- NOTES:**
1. ACO SYSTEM 4000 SLOPED CHANNEL, OR APPROVED EQUAL WITH ADA STEEL SLOTTED GRATE SHALL BE INSTALLED ALONG DUGOUTS AND BACKSTOP WALL AS SHOWN ON THE PLANS.

**OPEN TRENCH DRAIN DETAIL**

NO SCALE

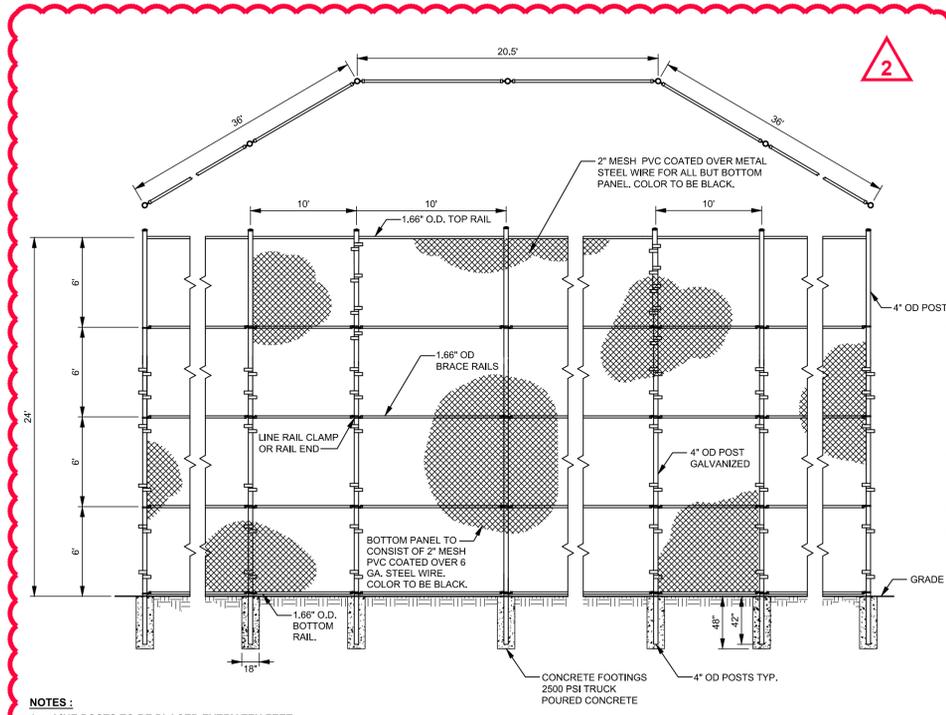
**FOUL POLE DETAIL - 19' OVERALL HEIGHT**

**4' & 6' HIGH CHAINLINK FENCE DETAIL**



- NOTES:**
1. DETAIL DEPICTS GENERAL FIELD LAYOUT. CONFIRM LAYOUT CONFORMS WITH NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATION STANDARDS.
  2. EFFECTIVE AUGUST 1, 2010 THE PITCHING DISTANCE BETWEEN THE FRONT EDGE OF THE PITCHER'S PLATE AND THE REAR TIP OF HOME PLATE SHALL BE 43' (FEMALE FASTPITCH, 12\"/>
  3. SEE SITE PLAN FOR FIELD GRADING AND UTILITY TIE-IN LOCATION.
  4. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR 24\"/>
  5. CONTRACTOR TO INSTALL IMPORT DOUBLE STANCHION PITCHERS PLATE, OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
  6. CONTRACTOR TO INSTALL SPORTSFIELD SPECIALTIES MLB HOLLYWOOD HOMEPLATE, OR APPROVED EQUAL.
  7. CONTRACTOR SHALL INSTALL COMPRESSED, UNFIRED CLAY BRICKS, \"DIAMOND PRO\" OR APPROVED EQUAL IN THE PITCHER'S MOUND, CATCHER'S BOX AND BATTER'S BOX. INSTALLATION SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS.

**COMPETITION SOFTBALL FIELD LAYOUT**



- NOTES:**
1. LINE POSTS TO BE PLACED EVERY TEN FEET ±.

**SOFTBALL BACKSTOP DETAIL**

NO SCALE

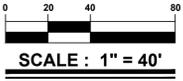


PROJECT TITLE  
APPLICATION NO.

**CONRAD SCHOOLS OF SCIENCE: ATHLETIC FIELDS PHASE 2**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
CHRISTIANA HUNDRED

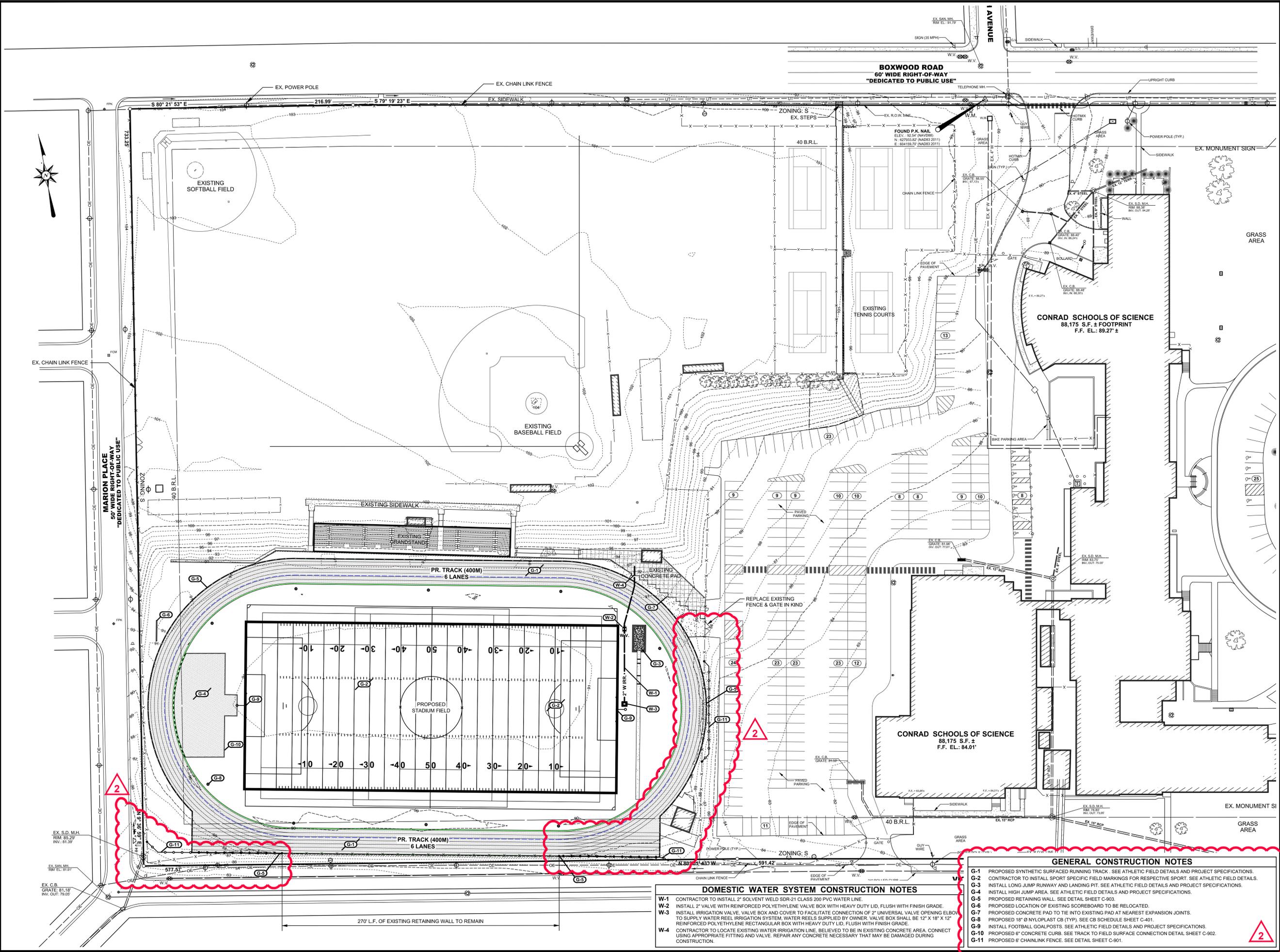
**SITE PLAN**



ISSUE BLOCK	MARK	DATE	DESCRIPTION
	2	12-18-17	ADDENDUM 2
	1	11-13-17	ISSUE FOR BID

PROJECT NO.: 2013222.01  
DATE: 6/30/17  
SCALE: 1" = 40"  
DRAWN BY: A.P.C. PROJ. MGR.: J.S.F.

**C-201**



**DOMESTIC WATER SYSTEM CONSTRUCTION NOTES**

**W-1** CONTRACTOR TO INSTALL 2" SOLVENT WELD SDR-21 CLASS 200 PVC WATER LINE.

**W-2** INSTALL 2" VALVE WITH REINFORCED POLYETHYLENE VALVE BOX WITH HEAVY DUTY LID, FLUSH WITH FINISH GRADE.

**W-3** INSTALL IRRIGATION VALVE, VALVE BOX AND COVER TO FACILITATE CONNECTION OF 2" UNIVERSAL VALVE OPENING ELBOW TO SUPPLY WATER REEL IRRIGATION SYSTEM. WATER REELS SUPPLIED BY OWNER. VALVE BOX SHALL BE 12" X 18" X 12" REINFORCED POLYETHYLENE RECTANGULAR BOX WITH HEAVY DUTY LID, FLUSH WITH FINISH GRADE.

**W-4** CONTRACTOR TO LOCATE EXISTING WATER IRRIGATION LINE, BELIEVED TO BE IN EXISTING CONCRETE AREA. CONNECT USING APPROPRIATE FITTING AND VALVE. REPAIR ANY CONCRETE NECESSARY THAT MAY BE DAMAGED DURING CONSTRUCTION.

**GENERAL CONSTRUCTION NOTES**

**G-1** PROPOSED SYNTHETIC SURFACED RUNNING TRACK. SEE ATHLETIC FIELD DETAILS AND PROJECT SPECIFICATIONS.

**G-2** CONTRACTOR TO INSTALL SPORT SPECIFIC FIELD MARKINGS FOR RESPECTIVE SPORT. SEE ATHLETIC FIELD DETAILS.

**G-3** INSTALL LONG JUMP RUNWAY AND LANDING PIT. SEE ATHLETIC FIELD DETAILS AND PROJECT SPECIFICATIONS.

**G-4** INSTALL HIGH JUMP AREA. SEE ATHLETIC FIELD DETAILS AND PROJECT SPECIFICATIONS.

**G-5** PROPOSED RETAINING WALL. SEE DETAIL SHEET C-903.

**G-6** PROPOSED LOCATION OF EXISTING SCOREBOARD TO BE RELOCATED.

**G-7** PROPOSED CONCRETE PAD TO TIE INTO EXISTING PAD AT NEAREST EXPANSION JOINTS.

**G-8** PROPOSED 18" Ø NYLOPLAST CB (TYP); SEE CB SCHEDULE SHEET C-401.

**G-9** INSTALL FOOTBALL GOALPOSTS. SEE ATHLETIC FIELD DETAILS AND PROJECT SPECIFICATIONS.

**G-10** PROPOSED 6" CONCRETE CURB. SEE TRACK TO FIELD SURFACE CONNECTION DETAIL SHEET C-902.

**G-11** PROPOSED 6" CHAIN LINK FENCE. SEE DETAIL SHEET C-901.

2



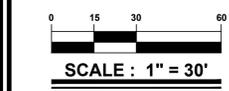
PROJECT TITLE  
APPLICATION NO.

**CONRAD SCHOOLS OF SCIENCE: ATHLETIC FIELDS PHASE 2**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
CHRISTIANA HUNDRED

SHEET TITLE

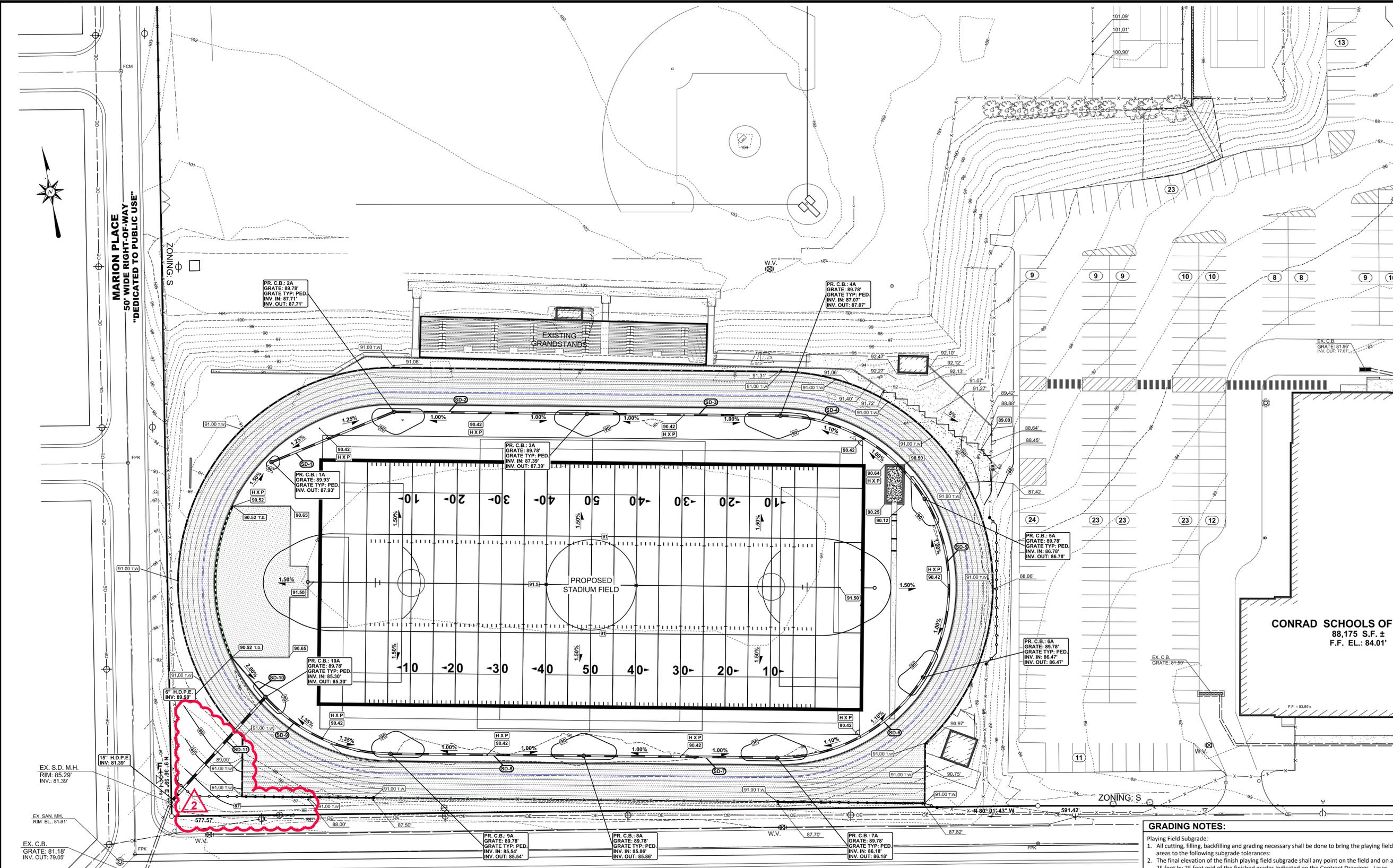
**GRADING & UTILITY PLAN**



ISSUE BLOCK	DATE	DESCRIPTION
2	12-18-17	ADDENDUM 2
1	11-13-17	ISSUE FOR BID
MARK	DATE	DESCRIPTION
LAYER/STATE	CAD	

PROJECT NO.: 2013222.01  
DATE: 6/30/17  
SCALE: 1" = 30"  
DRAWN BY: A.P.C. PROJ. MGR.: J.S.F.

SHEET  
**C-401**  
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**STORM DRAIN PIPE SCHEDULE**

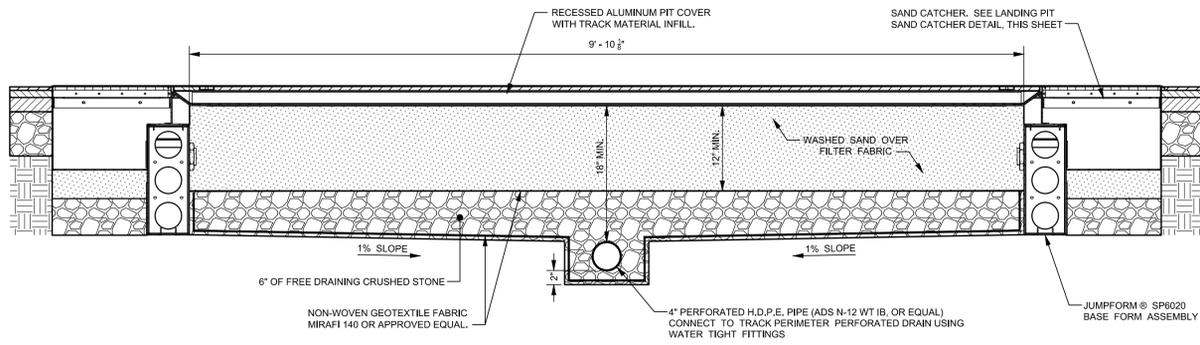
PIPE NO.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SD-1	12"	HDPE	88'	0.25%	-	87.93'
SD-2	12"	HDPE	128'	0.25%	87.71'	87.39'
SD-3	12"	HDPE	128'	0.25%	87.39'	87.07'
SD-4	12"	HDPE	116'	0.25%	87.07'	86.78'
SD-5	12"	HDPE	124'	0.25%	86.78'	86.47'
SD-6	12"	HDPE	116'	0.25%	86.47'	86.18'
SD-7	12"	HDPE	128'	0.25%	86.18'	85.86'
SD-8	12"	HDPE	128'	0.25%	85.86'	85.54'
SD-9	12"	HDPE	96'	0.25%	85.54'	85.30'
SD-10	6"	HDPE	34'	13.50%	89.90'	85.30'
SD-11	15"	HDPE	91'	4.30%	85.30'	81.39'

**CATCH BASIN SCHEDULE**

CB NO.	INLET BOX	COVER SLAB	TOP UNIT	FRAME/GRATE	GRATE EL.	INV. IN	INV. OUT
CB-1	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.93'	-	87.93' (SD-1)
CB-2	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	87.71' (SD-1)	87.71' (SD-2)
CB-3	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	87.39' (SD-2)	87.39' (SD-3)
CB-4	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	87.07' (SD-3)	87.07' (SD-4)
CB-5	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	86.78' (SD-4)	86.78' (SD-5)
CB-6	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	86.47' (SD-5)	86.47' (SD-6)
CB-7	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	86.18' (SD-6)	86.18' (SD-7)
CB-8	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	85.86' (SD-7)	85.86' (SD-8)
CB-9	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	85.54' (SD-8)	85.54' (SD-9)
CB-10	18" NYLOPLAST	.	DUCTILE IRON	18" PEDESTRIAN	89.78'	85.30' (SD-9)	85.30' (SD-10)

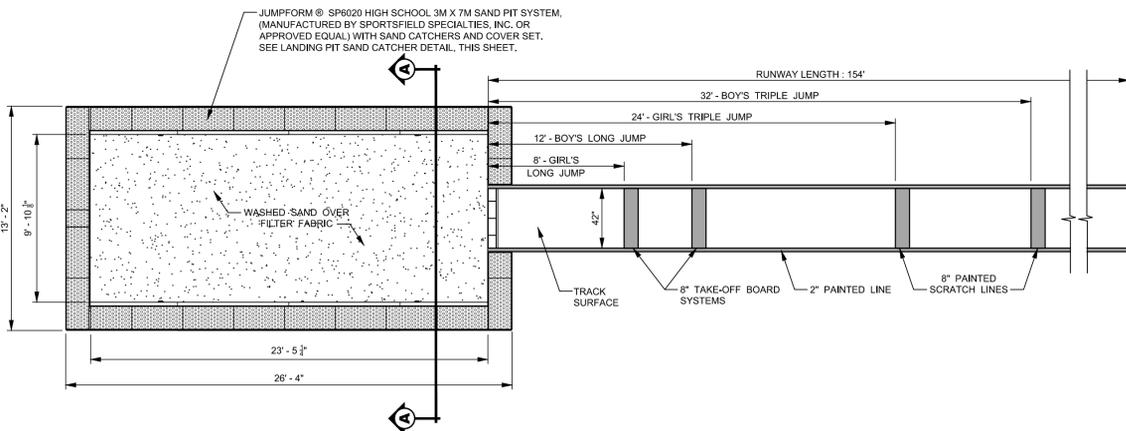
**GRADING NOTES:**

- Playing Field Subgrade: All cutting, filling, backfilling and grading necessary shall be done to bring the playing field areas to the following subgrade tolerances:
  - The final elevation of the finish playing field subgrade shall any point on the field and on a 25 foot by 25 foot grid of the finished grades indicated on the Contract Drawings. Laser controlled or indicated equipment shall be used for this part of the work. Playing Field Subgrade Elevation Certification: A certified survey by a State licensed land surveyor shall be performed at 25-foot centers to verify grade and elevation of the subgrade. The digital survey document shall indicate spot elevations and tenth of foot contours and shall be submitted to the Engineer for review and approval prior to moving to next part of work.
  - After verification and approval of the subgrade, the Playing Field Contractor shall then proceed with the fine grading of the subgrade. All fine grade cutting, filling, and backfilling necessary to be performed on the subgrade to bring the playing field areas finish subgrade to the required tolerances. Finish subgrade shall regard to slope except where noted on the drawings. Compaction for the finish subgrade shall in section 3.2 of this Specification. Proofrolling of the finish subgrade is required. Sufficient grading must be done during the progress of the work so site shall be well drained and free from water pockets.
- Playing Field Finish Subgrade Tolerance Requirements: The final elevation of the finish subgrade shall be plus or minus one half inch at any point on the field and on a 25 foot by 25 foot grid as indicated on the Contract Drawings.
- Playing Field Finish Subgrade Elevation Certification: A certified survey licensed land surveyor shall be performed at 25-foot centers to verify required grade and elevation tolerances of the finish subgrade. The digital survey document shall indicate spot elevations and tenth of foot contours and shall be submitted to the Engineer for review and approval prior to moving to next part of work.



**LONG JUMP LANDING PIT - CROSS SECTION "A - A"**

SCALE: 1" = 1'

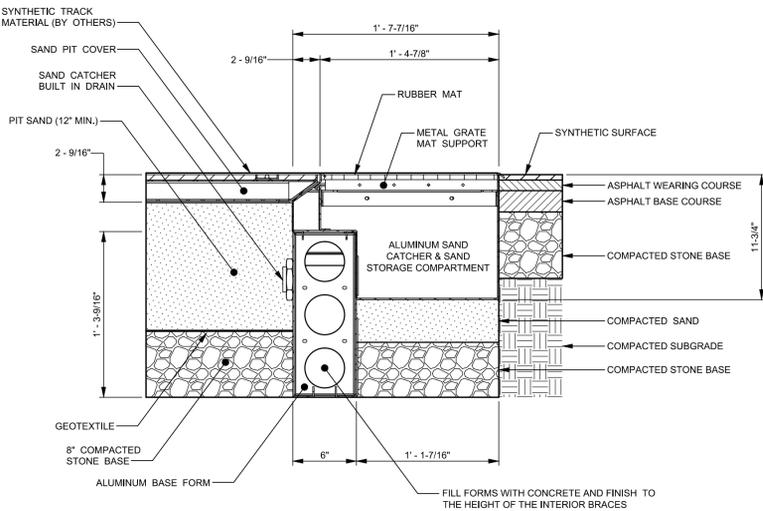


**NOTES :**

1. INCLINATION SHALL BE LIMITED TO 2% LATERALLY AND 0.1% IN THE JUMPING DIRECTION.
2. THE TAKE-OFF BOARD SYSTEM SHALL BE MANUFACTURED FROM WOOD OR SYNTHETIC MATERIAL WITH AN ALUMINUM SPACER AND STAINLESS STEEL BASE TRAY TO PROVIDE A FIRM BASE. ALUMINUM SPACER SHALL BE COATED WITH TRACK SURFACE ON ONE SIDE. SPORTSFIELD SPECIALTIES #FTL7008SS, OR APPROVED EQUAL.
3. THE LANDING PIT SHALL BE FILLED WITH SAND AND SHALL HAVE THE SAME ELEVATION AS THE TAKE-OFF BOARD.

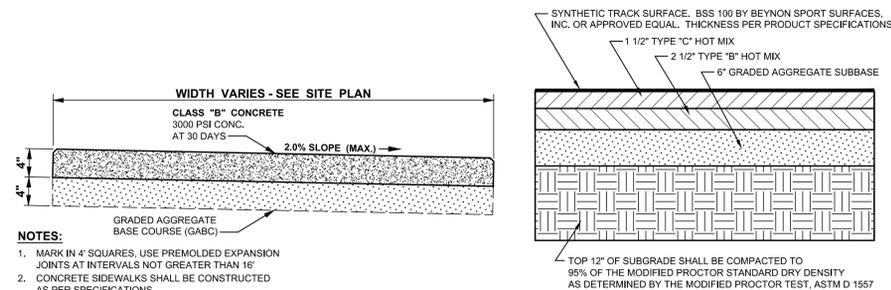
**LONG JUMP / TRIPLE JUMP RUNWAY & LANDING PIT DETAIL**

SCALE: 1" = 5'



**LANDING PIT SAND CATCHER DETAIL**

NO SCALE

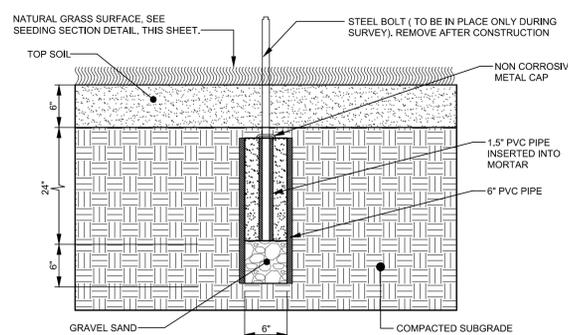


**CONCRETE SIDEWALK DETAIL**

NO SCALE

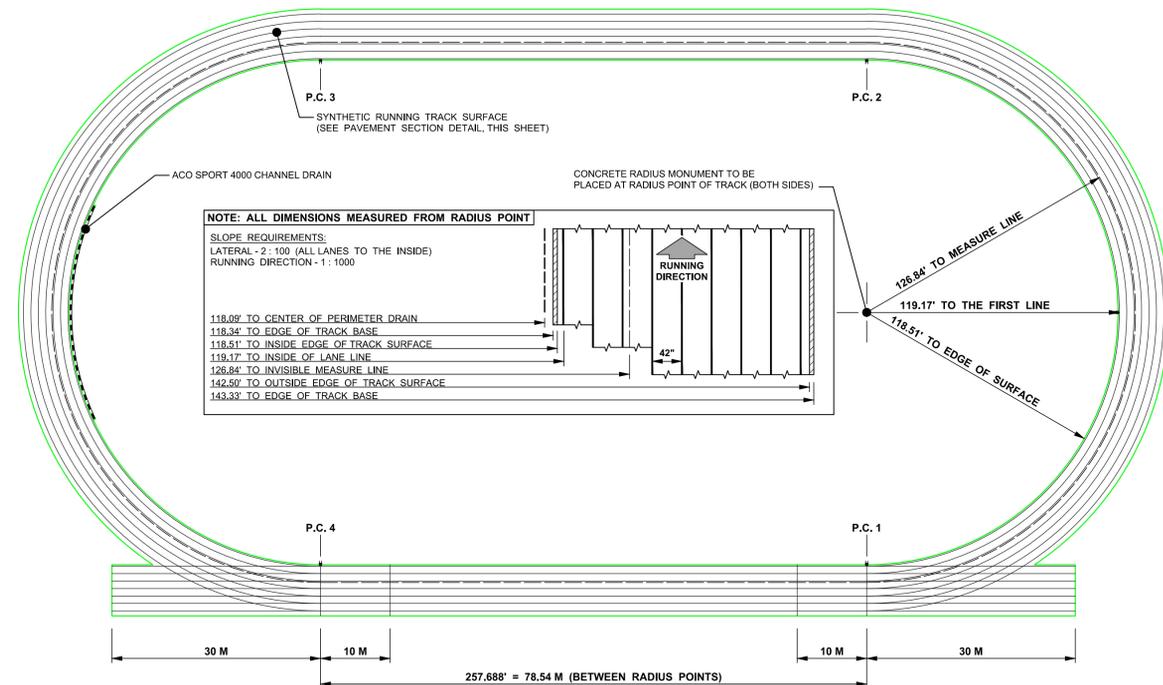
**TRACK PAVEMENT SECTION**

NO SCALE



**CONCRETE RADIUS MONUMENT DETAIL**

SCALE: 1" = 1'

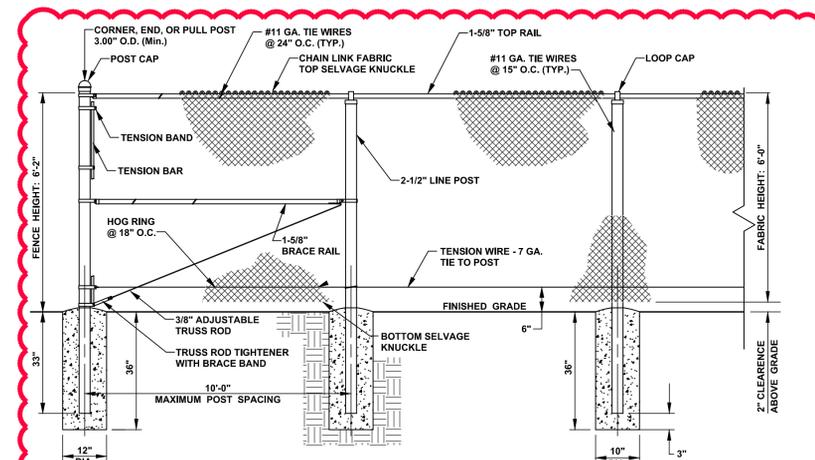


**NOTES:**

1. TRACK SHALL BE 6 LANE, EQUAL QUADRANT STYLE, CONSTRUCTED OF ASPHALT PAVING ON BASE MATERIAL, WITH SYNTHETIC RUNNING SURFACE. SEE "TRACK PAVEMENT SECTION" DETAIL, THIS SHEET.
2. "MEASURE LINE" AS REFERRED TO IN THIS DETAIL IS AN INVISIBLE LINE 7.67' OUTSIDE OF THE INNER LANE LINE OF THE INSIDE LANE. SEE "TRACK DIMENSION DETAIL", THIS SHEET.
3. TRACK SHALL BE CONSTRUCTED WITH PERIMETER TRACK DRAIN AROUND INSIDE PERIMETER AT THE HIGH JUMP AREA. SEE "TRACK TO HIGH JUMP SURFACE DETAIL", THIS SHEET.
4. TRACK LAYOUT AND EVENT MARKINGS LAYOUT SHALL BE IN ACCORDANCE WITH NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS STANDARDS.
5. CONCRETE RADIUS MONUMENT TO BE CONSTRUCTED AT EACH RADIUS POINT. SEE "CONCRETE RADIUS MONUMENT DETAIL" THIS SHEET.

**400 METER TRACK LAYOUT DETAIL**

SCALE: 1" = 40'



**NOTES :**

1. THE CONTRACTOR SHALL PROVIDE, COMPLETE AND IN PLACE, FENCING AND GATES AS SHOWN ON THE CONTRACT DRAWINGS AND REQUIRED BY THE CONTRACT DOCUMENTS
2. THE FENCING SHALL BE CHAIN LINK FENCE 6 FEET HIGH, FABRIC TO BE 2\"/>

**6' HIGH CHAIN LINK FENCE DETAIL**

NO SCALE



ARCHITECTURE  
ENGINEERING

Dover, DE

309 S. Governors Ave.  
Dover, DE 19904  
Ph. 302.734.7950  
Fax 302.734.7965

Salisbury, MD

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Salisbury, MD 21801  
Ph. 410.546.9100  
Fax 410.546.5824

Wilmington, NC

3205 Randall Parkway, Suite 211  
Wilmington, North Carolina 28403  
Ph. 910.341.7600  
Fax 910.341.7506

www.beckermorgan.com



PROJECT TITLE  
APPLICATION NO.

**CONRAD  
SCHOOLS OF  
SCIENCE:  
ATHLETIC  
FIELDS  
PHASE 2**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
NEW CASTLE COUNTY

SHEET TITLE

**CONSTRUCTION  
DETAILS**

ISSUE BLOCK

NO.	DATE	DESCRIPTION
2	12-18-17	ADDENDUM 2
1	11-13-17	ISSUE FOR BID

MARK	DATE	DESCRIPTION
1	11-13-17	ISSUE FOR BID

PROJECT NO.: 2013222.01

DATE: 6/30/17

SCALE: AS SHOWN

DRAWN BY: A.P.C. PROJ. MGR.: J.S.F.

SHEET

C-901

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PROJECT TITLE  
APPLICATION NO.

**CONRAD SCHOOLS OF SCIENCE: ATHLETIC FIELDS PHASE 2**

201 JACKSON AVE.  
WILMINGTON, DE 19804  
NEW CASTLE COUNTY

SHEET TITLE

**CONSTRUCTION DETAILS**

ISSUE BLOCK

MARK	DATE	DESCRIPTION
2	12-18-17	ADDENDUM 2
1	11-13-17	ISSUE FOR BID

PROJECT NO.: 2013222.01

DATE: 6/30/17

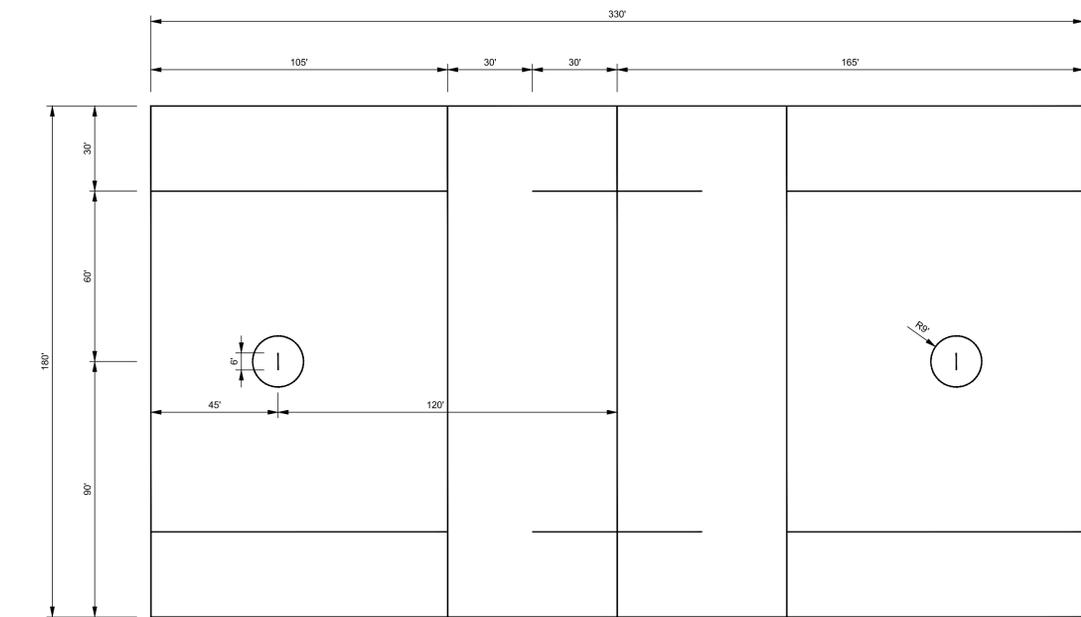
SCALE: AS SHOWN

DRAWN BY: A.P.C. | PROJ. MGR.: J.S.F.

SHEET

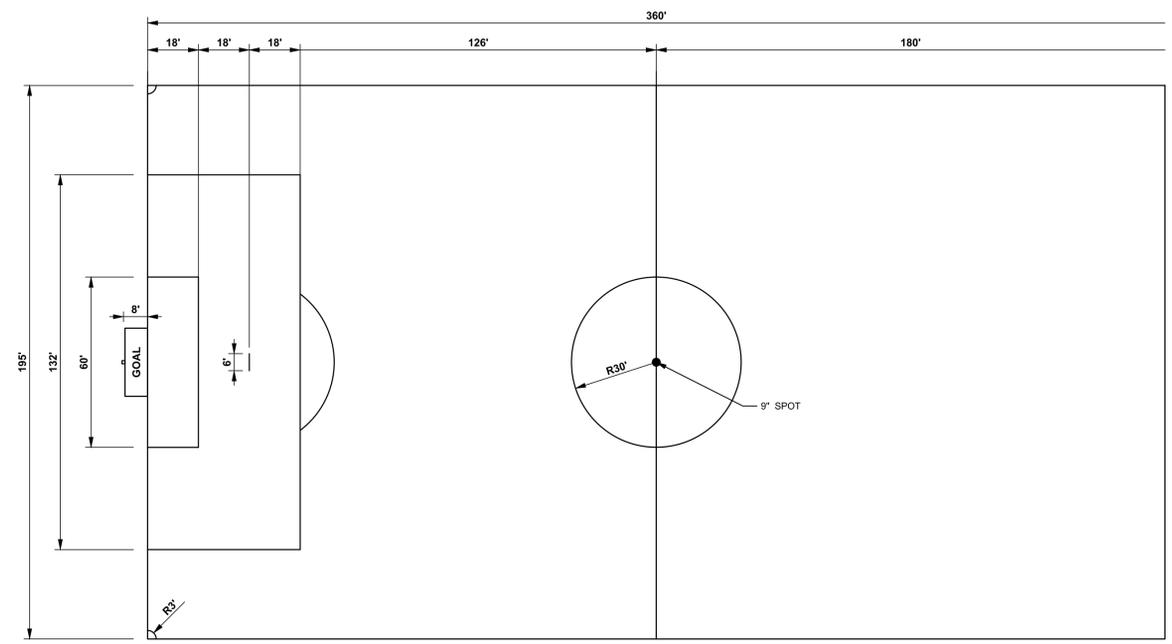
**C-903**

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**BOY'S LACROSSE STRIPING DIMENSIONS**

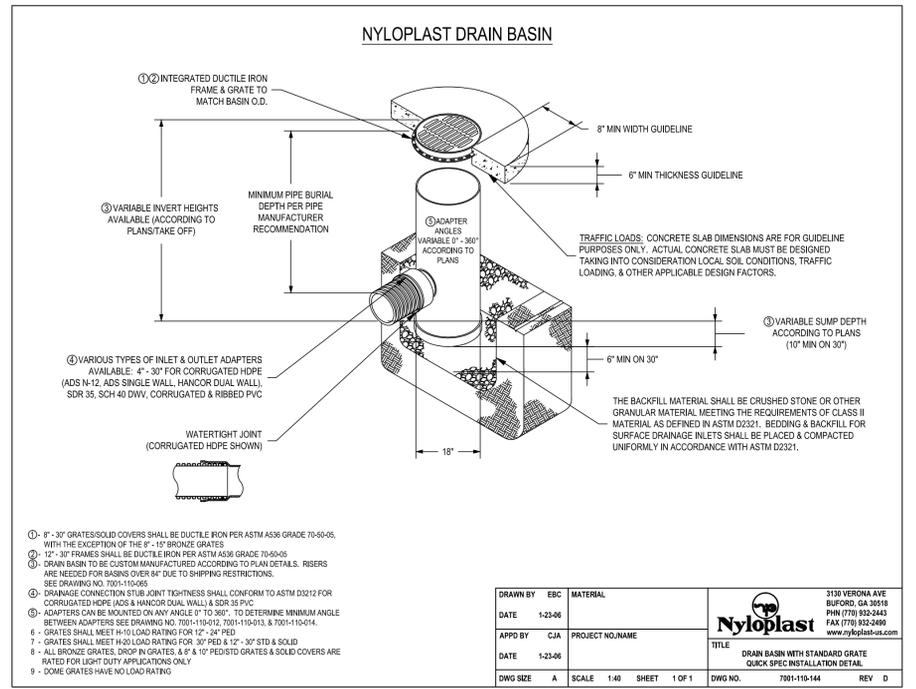
SCALE 1" = 30'



**SOCCER STRIPING DIMENSIONS**

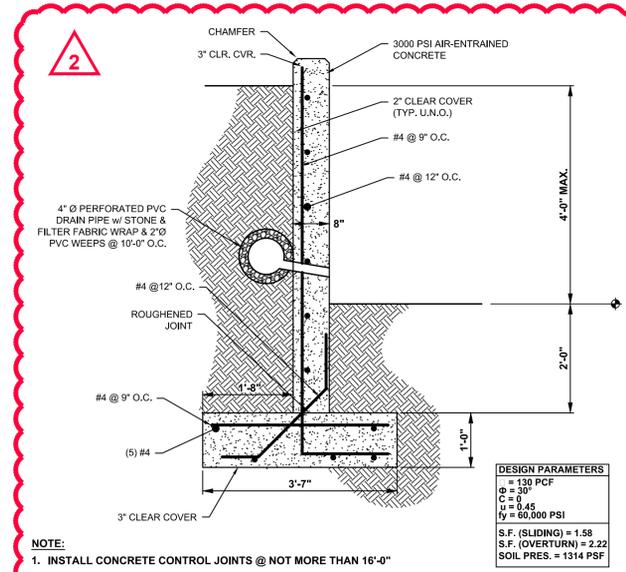
**NOTE:**

FIELD DIMENSIONS SHALL BE IN ACCORDANCE WITH NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS STANDARDS. ALL FIELD STRIPING SHALL BE PERMANENTLY STRIPED LINES AND IN ACCORDANCE WITH NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS STANDARDS.



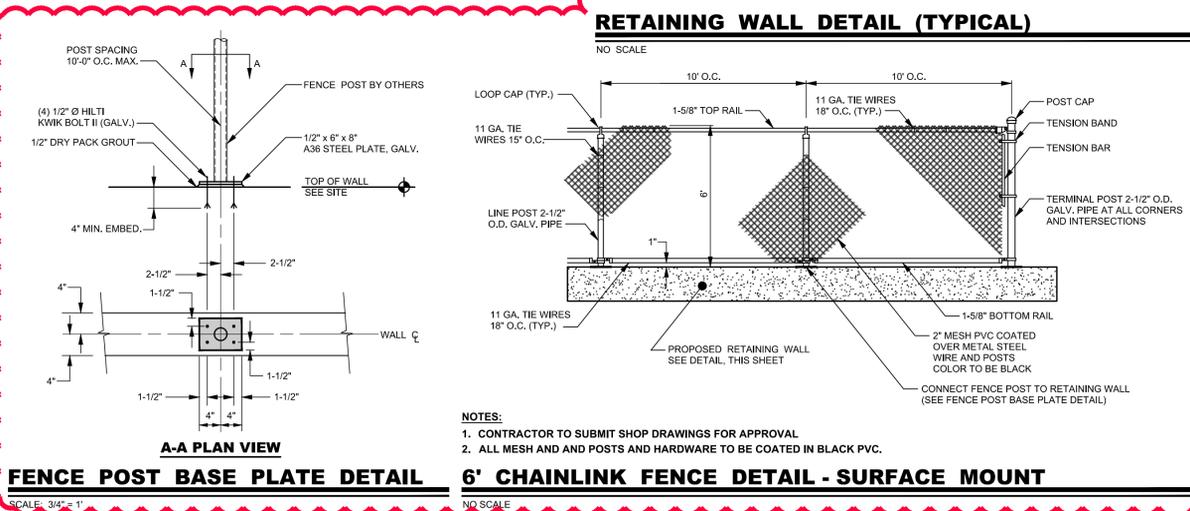
**NYLOPLAST DRAIN BASIN DETAIL**

NO SCALE



**RETAINING WALL DETAIL (TYPICAL)**

NO SCALE



**FENCE POST BASE PLATE DETAIL**

SCALE: 3/4" = 1"

**6' CHAINLINK FENCE DETAIL - SURFACE MOUNT**

NO SCALE

- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL
  - ALL MESH AND AND POSTS AND HARDWARE TO BE COATED IN BLACK PVC.



PROJECT TITLE

**RICHEY ELEMENTARY SCHOOL: BASEBALL FIELD**

105 E. HIGHLAND AVE.  
NEWPORT, DE 19804  
NEW CASTLE COUNTY

SHEET TITLE

**CONSTRUCTION DETAILS**

ISSUE BLOCK


2	12-18-17	ADDENDUM 2
1	11-13-17	ISSUE FOR BID

MARK DATE DESCRIPTION

LAYER/STATE: C-901

PROJECT NO.: 2013222.01

DATE: 07-24-17

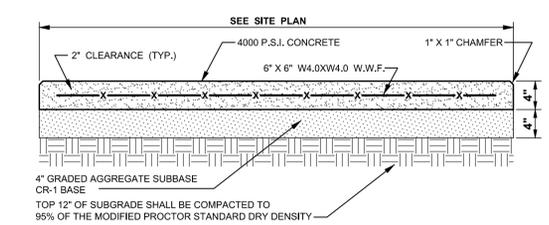
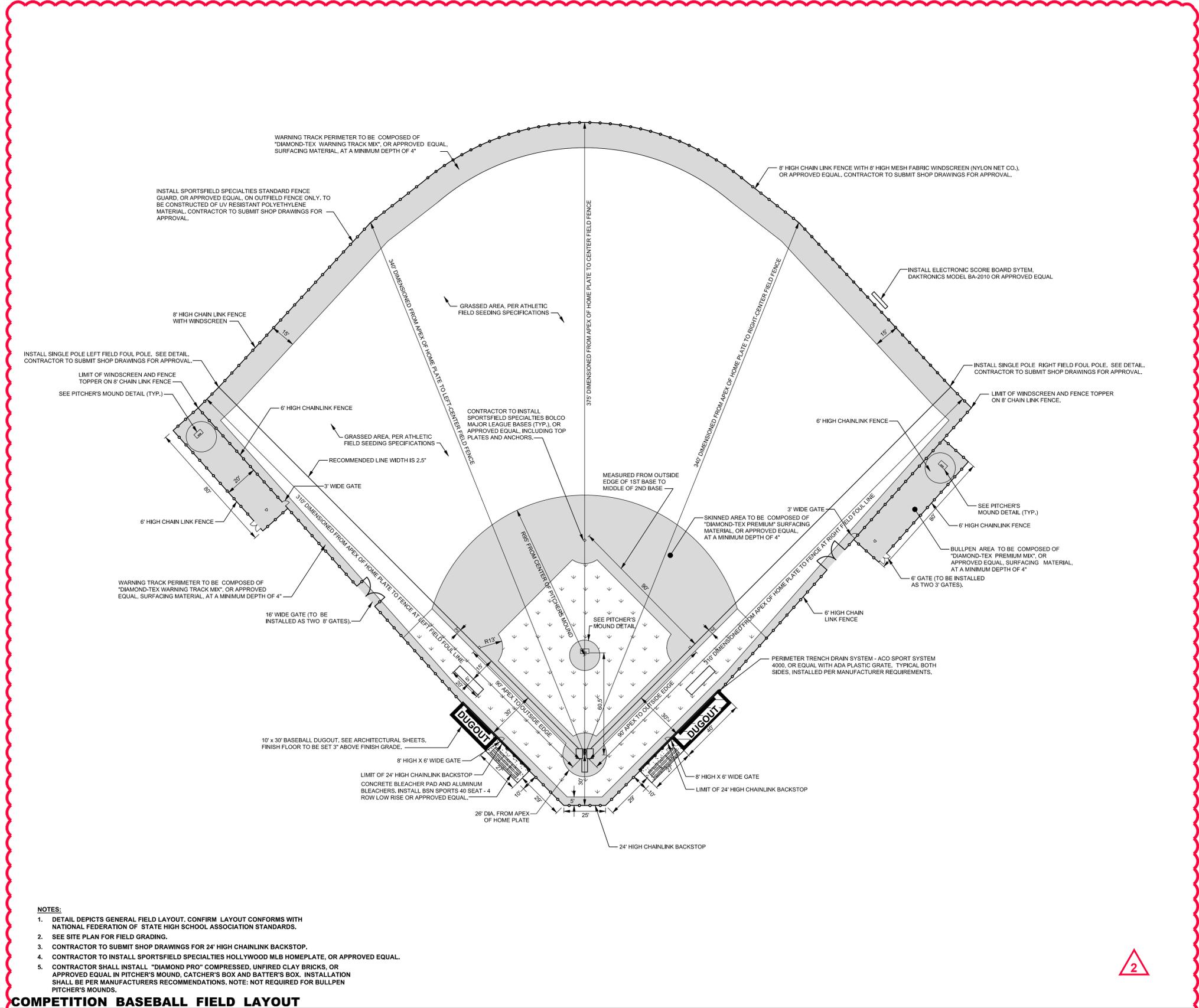
SCALE: AS SHOWN

DRAWN BY: A.P.C. PROJ. MGR.: J.S.F.

SHEET

**C-901**

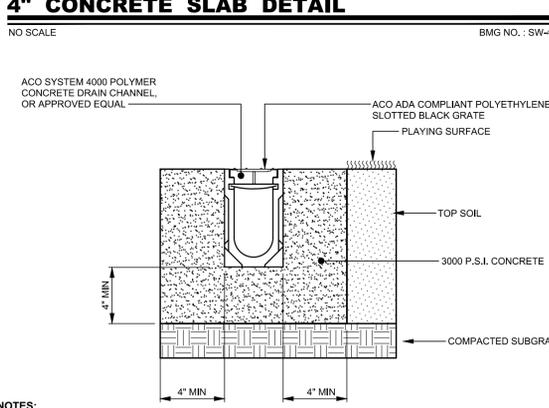
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**4" CONCRETE SLAB DETAIL**

NO SCALE

BMG NO. : SW-4D



**OPEN TRENCH DRAIN DETAIL**

NO SCALE

**NOTES:**

1. DETAIL DEPICTS GENERAL FIELD LAYOUT. CONFIRM LAYOUT CONFORMS WITH NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATION STANDARDS.
2. SEE SITE PLAN FOR FIELD GRADING.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR 24" HIGH CHAINLINK BACKSTOP.
4. CONTRACTOR TO INSTALL SPORTSFIELD SPECIALTIES HOLLYWOOD MLB HOMEPLATE, OR APPROVED EQUAL.
5. CONTRACTOR SHALL INSTALL "DIAMOND PRO" COMPRESSED, UNFIRED CLAY BRICKS, OR APPROVED EQUAL IN PITCHER'S MOUND, CATCHER'S BOX AND BATTER'S BOX. INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS. NOTE: NOT REQUIRED FOR BULLPEN PITCHER'S MOUNDS.

**COMPETITION BASEBALL FIELD LAYOUT**





PROJECT TITLE

**RICHEY ELEMENTARY SCHOOL: BASEBALL FIELD**

105 E. HIGHLAND AVE.  
NEWPORT, DE 19804  
NEW CASTLE COUNTY

SHEET TITLE

**CONSTRUCTION DETAILS**

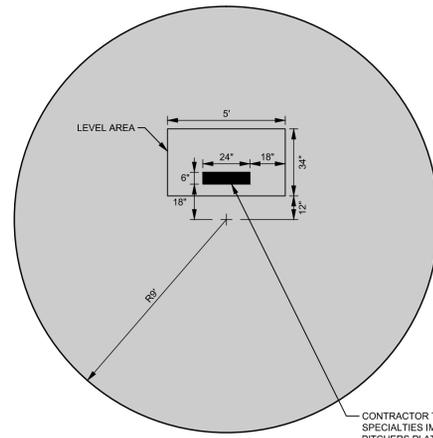
ISSUE BLOCK

NO.	DATE	DESCRIPTION
1	11-13-17	ISSUE FOR BID
2	12-18-17	ADDENDUM 2

PROJECT NO.: 2013222.01  
DATE: 07-24-17  
SCALE: AS SHOWN  
DRAWN BY: A.P.C. PROJ. MGR.: J.S.F.

**C-902**

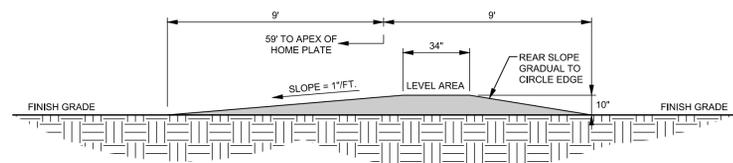
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PLAN VIEW

NOTE:

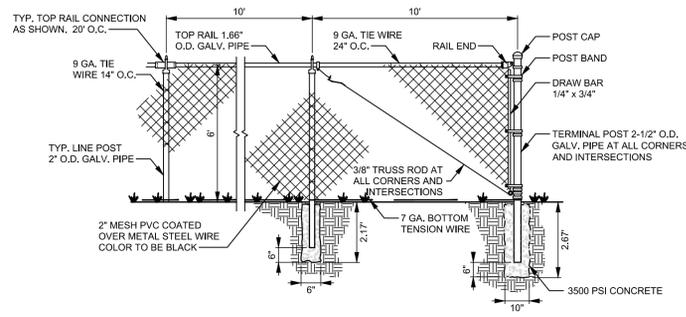
- DISTANCE OF FRONT EDGE OF PITCHER'S PLATE TO BACK POINT OF HOME PLATE SHALL BE 60.5'.



PROFILE VIEW

**BASEBALL PITCHER'S MOUND DETAIL**

NO SCALE



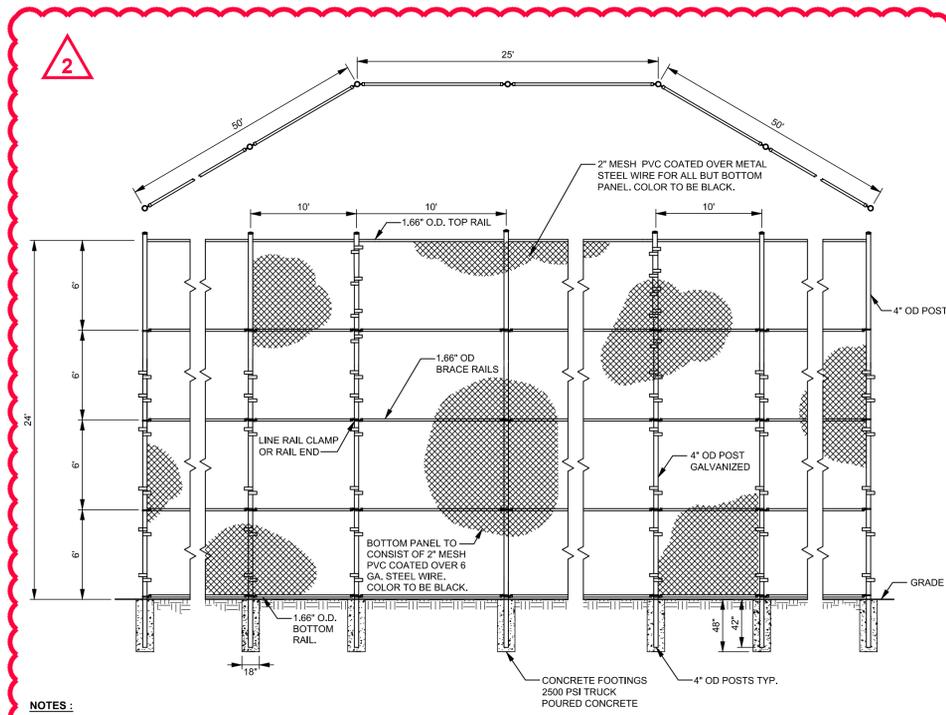
TYPICAL LINE POST FOOTING TYPICAL CORNER POST FOOTING

NOTES:

- FENCE POSTS SHALL BE INSTALLED ON OUTSIDE PERIMETER OF FENCE.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.

**BASEBALL FIELD 6' CHAINLINK FENCE DETAIL**

NO SCALE

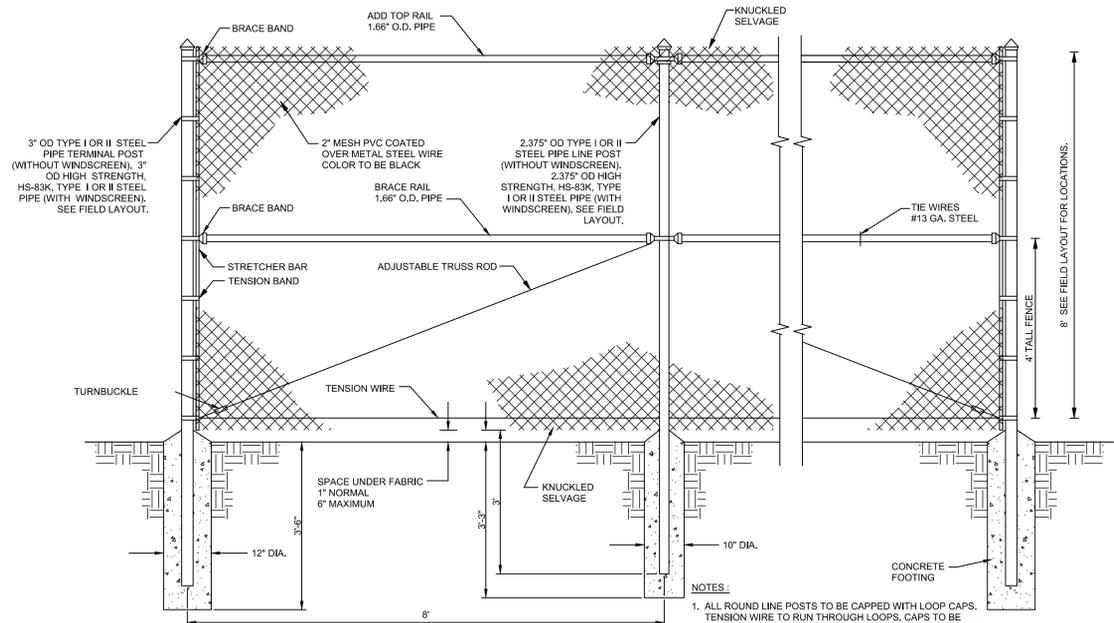


NOTES:

- LINE POSTS TO BE PLACED EVERY TEN FEET ±.

**BASEBALL BACKSTOP DETAIL**

NO SCALE

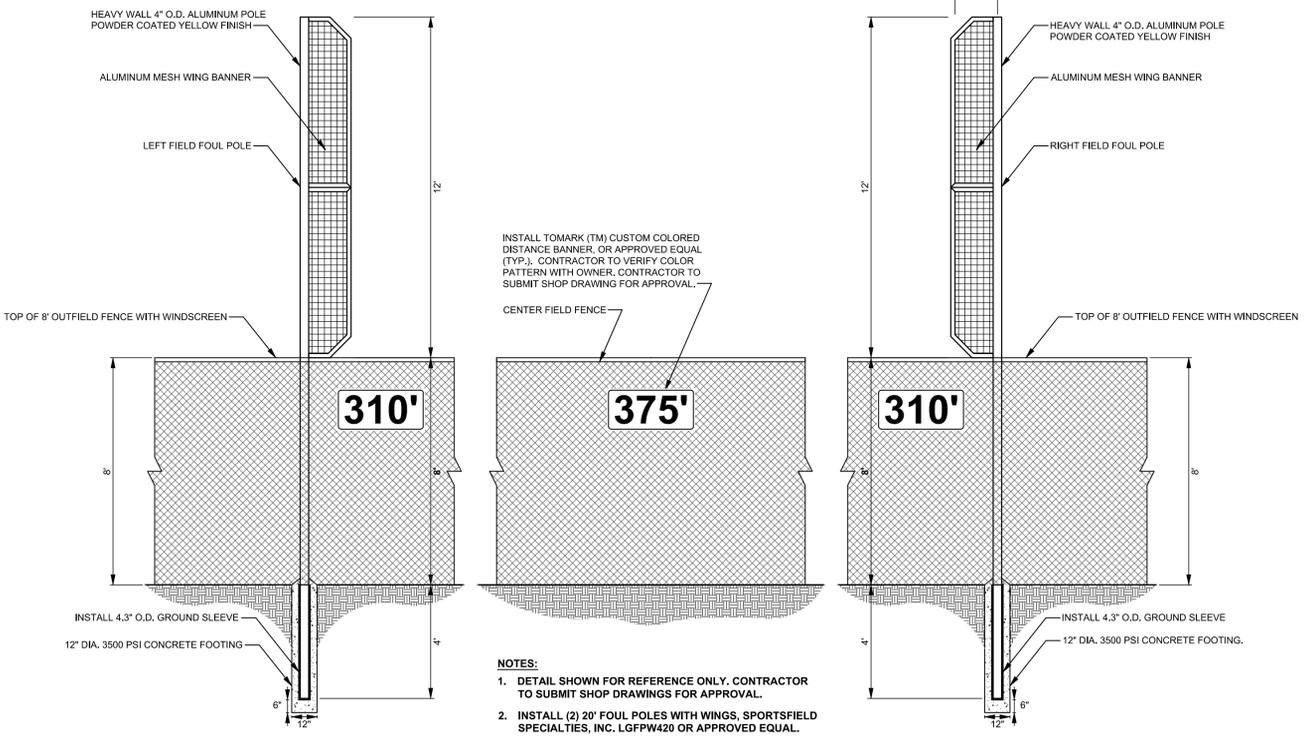


NOTES:

- ALL ROUND LINE POSTS TO BE CAPPED WITH LOOP CAPS. TENSION WIRE TO RUN THROUGH LOOPS. CAPS TO BE FASTENED TO ALL TERMINAL POSTS WITH TENSION BANDS
- FASTEN FABRIC TO TENSION WIRE W/ HOG RINGS @ 18" C/C. HOG RINGS TO BE 12 GA. STEEL WIRE.
- MATERIALS TO MEET REQUIREMENTS OF AASHTO M181.
- GATE POSTS TO HAVE 16" DIA. FOOTINGS.
- OUTFIELD FENCE TO INCLUDE WINDSCREEN AT SPECIFIED LOCATIONS, PER PROJECT SPECIFICATIONS. SEE FIELD LAYOUT.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
- ALL FENCE MATERIAL SHALL BE VINYL PVC COATED OVER METAL, COLOR TO BE BLACK.
- SEE FIELD LAYOUT FOR FENCE HEIGHT LOCATIONS.

**BASEBALL FIELD 8' CHAIN LINK FENCE DETAIL**

NO SCALE



NOTES:

- DETAIL SHOWN FOR REFERENCE ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
- INSTALL (2) 20' FOUL POLES WITH WINGS, SPORTSFIELD SPECIALTIES, INC. LGFPW420 OR APPROVED EQUAL.

**FOUL POLE DETAIL - 24' OVERALL HEIGHT**

NO SCALE

**RECORD OF SOIL EXPLORATION**  
**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**1277 McD Drive**  
**Dover, Delaware 19901**

Project Name Conrad Athletic Fields  
 Location Wilmington, DE  
 Job Number D17086  
 Boring Number B-1

**SAMPLER**

Datum topo Hammer Wt. n/a lb. Hole Diameter 4.25 in. Foreman Joseph Isip  
 Surf. Elev. 91 ft. Hammer Drop n/a in. Rock Core Diameter n/a in. Classified by Jeremy Boehm  
 Date Started 9/15/2017 DCP Diameter n/a in. O.D. Boring Method Hand Date Completed 9/15/2017

ELEV.	Soil Description Color, Moisture, Density, Size, Proportion	STRA. DEPTH	USCS SOIL	USCS	SAMPLE Blows per 1.75"	BORING & SAMPLING NOTES	
90	Orange-brown, moist, fine to medium SAND, some silt (USCS: SM, USDA: Sandy Loam)	0	SM			Approximately 8 inches of organic bearing soil (topsoil) at surface.	
88		2					
86		4					
84		6					
	Hand auger boring terminated 8 feet below existing grade.	8					
82							
80		10					
		12					

**SAMPLER TYPE**  
 DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED  
 PT - PRESSED SHELBY TUBE  
 CA - CONTINUOUS FLIGHT AUGER  
 RC - ROCK CORE

**SAMPLE CONDITIONS**  
 D - DISINTEGRATED  
 I - INTACT  
 U - UNDISTURBED  
 L - LOST

**GROUND WATER**  
 At Completion \_\_\_\_\_ ft.  
 After Auger Removal \_\_\_\_\_ ft.  
 Backfilled \_\_\_\_\_ ft.

**CAVE IN DEPTH**  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.

**BORING METHOD**  
 HAND - Hand Auger Boring

**RECORD OF SOIL EXPLORATION**  
**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**1277 McD Drive**  
**Dover, Delaware 19901**

Project Name Conrad Athletic Fields  
 Location Wilmington, DE  
 Job Number D17086  
 Boring Number B-2

**SAMPLER**

Datum topo Hammer Wt. n/a lb. Hole Diameter 4.25 in. Foreman Joseph Isip  
 Surf. Elev. 90 ft. Hammer Drop n/a in. Rock Core Diameter n/a in. Classified by Jeremy Boehm  
 Date Started 9/15/2017 DCP Diameter n/a in. O.D. Boring Method Hand Date Completed 9/15/2017

ELEV.	Soil Description Color, Moisture, Density, Size, Proportion	STRA. DEPTH	USCS SOIL	USCS	SAMPLE Blows per 1.75"	BORING & SAMPLING NOTES
90	Brown, moist, SILT, little sand (USCS: ML, USDA: Clay Loam)	0	ML	ML		Approximately 8 inches of organic bearing soil (topsoil) at surface.
88		2				
86	Brown, moist, lean CLAY, little sand (USCS: CL, USDA: Clay)	4	CL	CL		
84	Brown, moist, SILT, little sand (USCS: ML, USDA: Clay Loam)	6	ML	ML		
82		8				
80	Hand auger boring terminated 8 feet below existing grade.	10				
78		12				

**SAMPLER TYPE**  
 DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED  
 PT - PRESSED SHELBY TUBE  
 CA - CONTINUOUS FLIGHT AUGER  
 RC - ROCK CORE

**SAMPLE CONDITIONS**  
 D - DISINTEGRATED  
 I - INTACT  
 U - UNDISTURBED  
 L - LOST

**GROUND WATER**  
 At Completion \_\_\_\_\_ ft.  
 After Auger Removal \_\_\_\_\_ ft.  
 Backfilled \_\_\_\_\_ ft.

**CAVE IN DEPTH**  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.

**BORING METHOD**  
 HAND - Hand Auger Boring

**RECORD OF SOIL EXPLORATION**  
**HILLIS - CARNES ENGINEERING ASSOCIATES, INC.**  
**1277 McD Drive**  
**Dover, Delaware 19901**

Project Name Conrad Athletic Fields  
 Location Wilmington, DE  
 Job Number D17086  
 Boring Number B-3

**SAMPLER**

Datum topo Hammer Wt. n/a lb. Hole Diameter 4.25 in. Foreman Joseph Isip  
 Surf. Elev. 102 ft. Hammer Drop n/a in. Rock Core Diameter n/a in. Classified by Jeremy Boehm  
 Date Started 9/15/2017 DCP Diameter n/a in. O.D. Boring Method Hand Date Completed 9/15/2017

ELEV.	Soil Description Color, Moisture, Density, Size, Proportion	STRA. DEPTH	USCS SOIL	USCS	SAMPLE Blows per 1.75"	BORING & SAMPLING NOTES
102	Brown, moist, fine to medium silty SAND (USCS: SM, USDA: Loam)	0		SM		Approximately 8 inches of organic bearing soil (topsoil) at surface.
100	Brown, moist, SILT, some sand (USCS: ML, USDA: Silt Loam)	2		ML		
98	Brown, moist, lean CLAY, little sand (USCS: CL, USDA: Clay)	4		CL		
96	Brown, moist, SILT, little sand (USCS: ML, USDA: Silt Loam)	6		ML		
94	Brown, moist, lean CLAY, little sand (USCS: CL, USDA: Clay)	8		CL		
90	Hand auger boring terminated 8 feet below existing grade.	12				

**SAMPLER TYPE**  
 DRIVEN SPLIT SPOON UNLESS OTHERWISE NOTED  
 PT - PRESSED SHELBY TUBE  
 CA - CONTINUOUS FLIGHT AUGER  
 RC - ROCK CORE

**SAMPLE CONDITIONS**  
 D - DISINTEGRATED  
 I - INTACT  
 U - UNDISTURBED  
 L - LOST

**GROUND WATER**  
 At Completion \_\_\_\_\_ ft.  
 After Auger Removal \_\_\_\_\_ ft.  
 Backfilled \_\_\_\_\_ ft.

**CAVE IN DEPTH**  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft.

**BORING METHOD**  
 HAND - Hand Auger Boring



# Transmittal

309 South Governors Avenue, Dover, DE 19904

PROJECT: 201322201 Conrad Schools of Science/Athletic Fields  
2013222.01

DATE: 12/19/2017

SUBJECT: Addendum No. 2

TRANSMITTAL ID: 00008

PURPOSE: For your use

VIA: Info Exchange

## FROM

NAME	COMPANY	EMAIL	PHONE
Jonathan Falkowski 309 South Governors Avenue Dover DE 19904 United States	Becker Morgan Group, Inc.	jfalkowski@beckermorgan.com	302-734-7950

## TO

NAME	COMPANY	EMAIL	PHONE
A-Del Estimating United States	A-Del Construction	estimates@a-del.com	
Al Buciorelli United States	American Athletic Courts	abuc@trackandturf.com	
Brad Davidson	LandTek	estimatinggroup@landtekgroup.com	
Darren Anderson United States	ATT Sports	danderson@attsports.com	856-767-3088
Greg Casenta	Corrado Construction Company	gcasenta@corrado.com	
Hector Hennandez United States	Grass Busters Landscaping Co., Inc.	lisae@gblinc.net	
Kyle Lindstrom 25820 Still Pond Neck Road Worton MD 21678 United States	Lindstrom Excavating Contractors, Inc.	kyle@lindexc.com	410-778-6344
Matt Ballintyn United States	Merit Construction Engineers	mattb@mce85.com	
Matt Wimer United States	Hummer Turfgrass	matt@usaturf.com	
Rob Kemske United States	A-Del Construction	rkemske@a-del.com	
Shawn Werley United States	Jones Turf Management	jonesturf@gmail.com	
Steve Newman	Reybold Construction	snewman@reybold.com	609-202-4112
Tony Ventresca	Ventresca Bros., Inc.	tony@ventrescabros.com	302-658-6436

# Transmittal

DATE: 12/19/2017  
TRANSMITTAL ID: 00008

NAME	COMPANY	EMAIL	PHONE
2300 North DuPont Hwy. New Castle DE 19720 United States			
Wayne Sharp 309 South Governors Avenue Dover DE 19904 United States	Becker Morgan Group, Inc.	wsharp@beckermorgan.com	302-734-7950
Bryan Hutchison 309 South Governors Avenue Dover DE 19904 United States	Becker Morgan Group, Inc.	bhutchison@beckermorgan.com	302-734-7950
Emily Ryan Data Service Center 168 S. DuPont Highway New Castle, Delaware 19720	Data Service Center	eryan@dataservice.org	302-504-7223
Marcin Michalski Red Clay Consolidated School District 1798 Limestone Road Wilmington, Delaware 19804	Red Clay Consolidated School District	Marcin.Michalski@redclay.k12.de.us	3028923284

REMARKS: Please download Addendum No. 2 documents from the provided link.  
Please be advised the last day for RFI's is tomorrow. We will answer any remaining RFI's if needed by Friday.

Thanks,

**Jon S. Falkowski, P.E.**  
Sr. Associate | Civil Engineer  
**BECKER MORGAN GROUP, INC.**  
Delaware | Maryland | North Carolina  
Office: [302-734-7950](tel:302-734-7950) | Ext.: 227

# Transmittal

DATE: 12/19/2017  
TRANSMITTAL ID: 00008

## DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	12/19/2017	000110 - table of contents.pdf	
1	12/19/2017	321216 - Asphalt Paving.pdf	
1	12/19/2017	321818 - Synthetic Track.pdf	
1	12/19/2017	201322201_Addn02.pdf	
1	9/26/2017	201322201-CONRAD-Boring-Map.pdf	
1	12/19/2017	201322201-CONRAD-PHASE 1-C-902.pdf	
1	12/19/2017	201322201-CONRAD-PHASE 2-C-201.pdf	
1	12/18/2017	201322201-CONRAD-PHASE 2-C-401.pdf	
1	12/19/2017	201322201-CONRAD-PHASE 2-C-901.pdf	
1	12/19/2017	201322201-CONRAD-PHASE 2-C-903.pdf	
1	12/19/2017	201322201-RICHEY-C-901.pdf	
1	12/19/2017	201322201-RICHEY-C-902.pdf	
1	9/26/2017	D17086 boring logs.PDF	