



# USC Upstate Softball Field Repairs and Upgrades

## STATE PROJECT NUMBER: H34-I350

800 University Way  
Spartanburg, South Carolina 29303

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### PROJECT:

UNIVERSITY OF SOUTH CAROLINA UPSTATE  
SOFTBALL FIELD REPAIRS AND UPGRADES  
SPARTANBURG, SOUTH CAROLINA

DATE: 12 JANUARY 2012  
DRAWINGS DATED: 12 JANUARY 2012  
COMPLETED BY: MARGARETTA L. TERRY, AIA

### PROJECT DESIGNED IN ACCORDANCE WITH:

INTERNATIONAL BUILDING CODE:	2009 EDITION W/ SC AMENDMENTS
INTERNATIONAL FIRE CODE:	2009 EDITION
NFPA LIFE SAFETY CODE 101:	2003
INTERNATIONAL ENERGY CONSERVATION CODE:	2006 EDITION
ASHRAE 90.1:	2004
SC BARRIER FREE BUILDING DESIGN STANDARD W/ ANSI-A117.1:	2003

### ARCHITECT/ENGINEER OF RECORD:

ARCHITECT / ENGINEER OF RECORD			
ARCHITECT/ENGINEER	FIRM NAME	LICENSE #	TELEPHONE #
ARCHITECT	DP3 ARCHITECTS, LTD	B84017	(864) 232.8200
CIVIL	DUTTON ENGINEERING	0285	(864) 331-1202
MECHANICAL	PERITUS ENGINEERS & ASSOCIATES	25120	(864) 277-8287
PLUMBING	PERITUS ENGINEERS & ASSOCIATES	25120	(864) 277-8287
ELECTRICAL	BURDETTE ENGINEERING, INC.	9350	(864) 297-8717

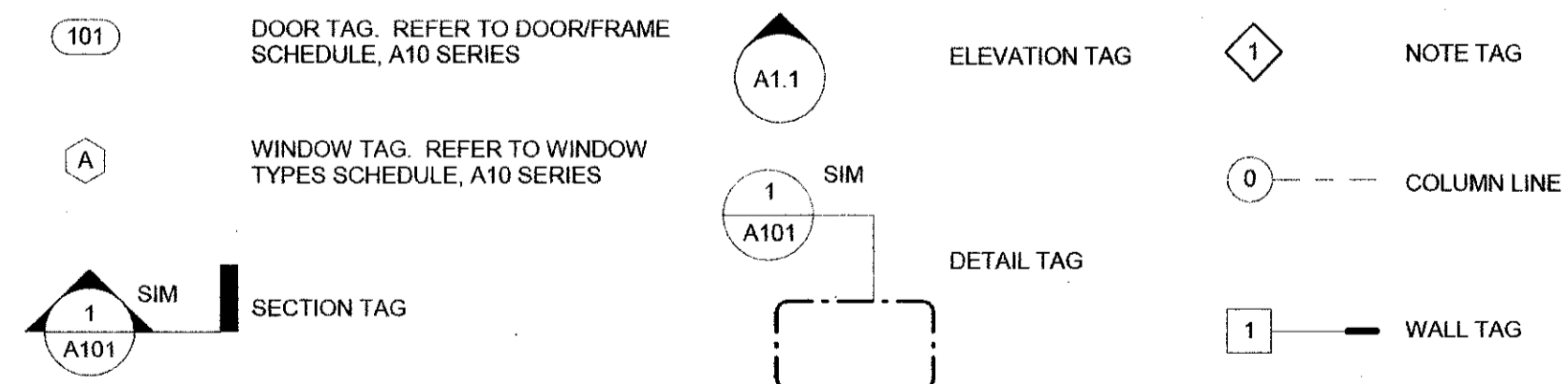
### GENERAL NOTES

- THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS AND APPROVED BY THE ARCHITECT.
- THE TERM "CONTRACTOR" AS USED IN THESE NOTES SHALL REFER TO THE CONTRACTOR OR TO THE SUB-CONTRACTORS.
- SCOPE OF WORK: THE CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR PRODUCING A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO SITE WORK, ARCHITECTURAL, ELECTRICAL, PLUMBING AND HVAC.
- BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT, IN WRITING, OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK AND SHALL BE RESPONSIBLE FOR SAME.
- IF THE CONTRACT DRAWINGS ARE FOUND TO BE UNCLEAR, AMBIGUOUS OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- THE ARCHITECT SHALL BE AVAILABLE TO VISIT THE SITE WHEN REQUESTED. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES, TRADE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, CONTRACTOR SHALL NOTIFY ARCHITECT.
- THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.
- CONTRACTOR SHALL PAY ALL TAXES, SECURE ALL PERMITS AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT, INCLUDING BUT NOT LIMITED TO BUILDING PERMITS, WATER, ELECTRIC AND TELEPHONE SERVICE CONNECTION IMPACT FEES, CERTIFICATE OF OCCUPANCY, AND INSPECTIONS.
- GUARANTEE: THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN TEN (10) DAYS AFTER IT IS BROUGHT TO HIS ATTENTION.
- PROTECTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK AND THAT OF HIS SUBCONTRACTORS FOR LOSSES AND DAMAGES TO EQUIPMENT, TOOLS AND MATERIAL USED IN CONJUNCTION WITH THE WORK AND FOR ACTS OF HIS EMPLOYEES.
- CLEANING UP: THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE SITE CLEAN.
- CONTRACTOR IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES AND OPERATIONS AND MAINTENANCE MANUALS.

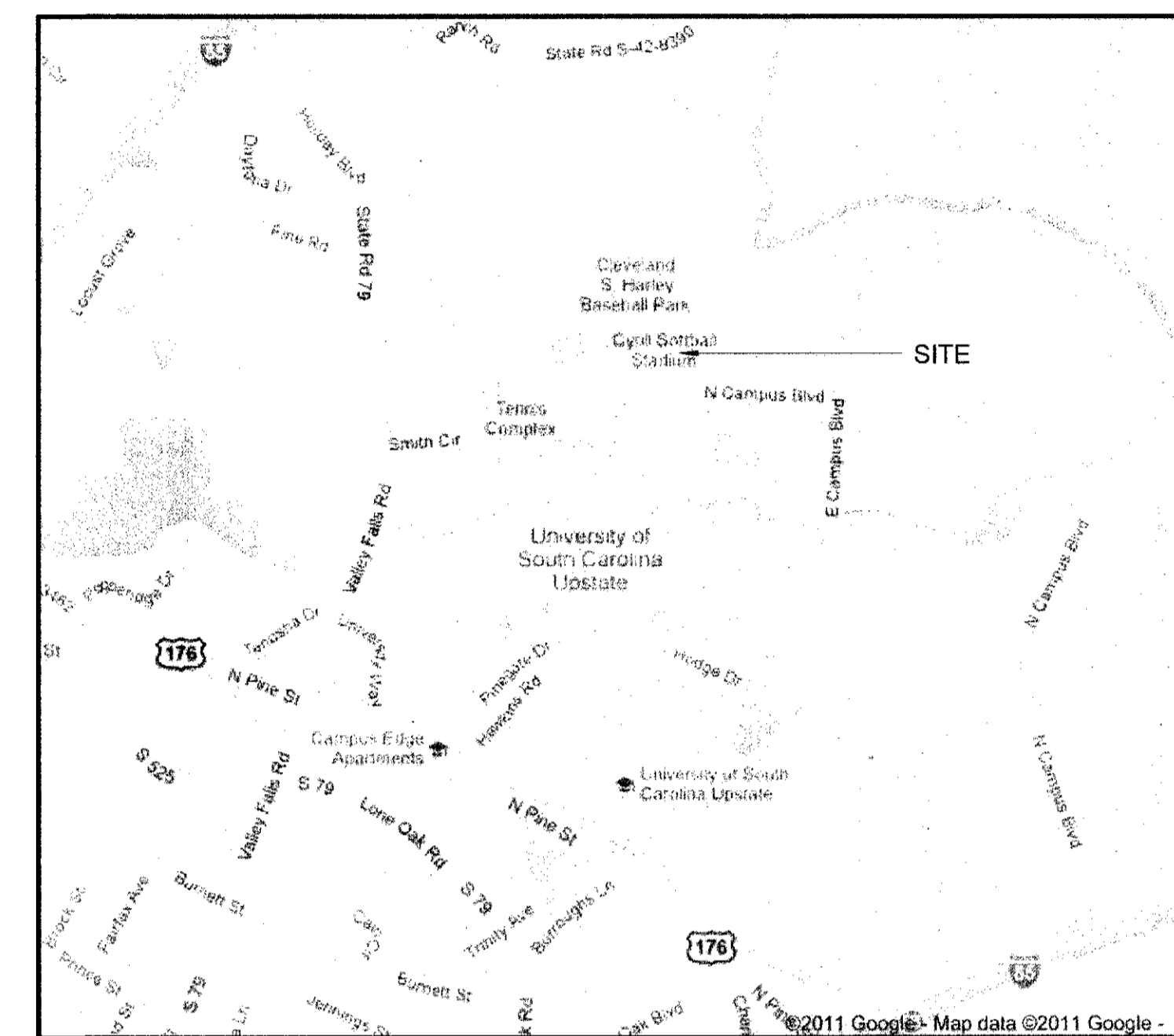
### COORDINATION NOTE

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS, AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES USE ON THE PROJECT AND ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

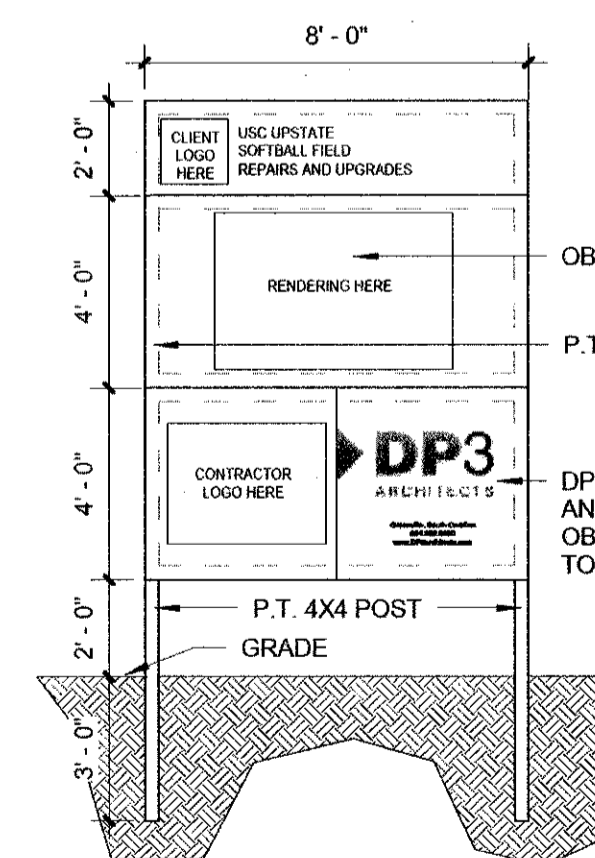
### DRAWING SYMBOL LEGEND



### VICINITY MAP



### PROJECT SIGN



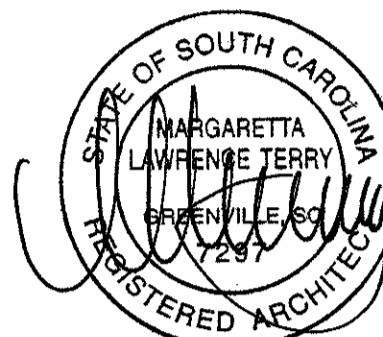
### NOTES:

- GO TO PROVIDE AND INSTALL ONE PROJECT SIGN. LOCATIONS TO BE DETERMINED IN FIELD. VERIFY LOCATION WITH OWNER.
- PROJECT SIGN TO REMAIN PROMINENTLY DISPLAYED DURING ENTIRE CONSTRUCTION PERIOD. REMOVE FROM PROJECT SITE WHEN BUILDING OCCUPIED AND OPEN FOR BUSINESS.
- SIGN PAINTED ON 3/4" EXTERIOR PLYWOOD. LETTER STYLE AND PLACEMENT SHOULD BE SIMILAR TO THAT SHOWN.
- PROVIDE KICK BACK TREATED WOOD POSTS AS NEEDED. PAINTED DURON "SHELL WHITE".

### DESIGN AND ENGINEERING TEAM

<b>Owner</b> USC Upstate 800 University Way Spartanburg, SC 29303 Contact: Fred Scott  P: 864.503.5500 F: 864.503.5542 E: fscott@uscupstate.edu	<b>Architect</b> DP3 Architects 211 E. Broad Street Greenville, SC 29601 Contact: Anna K. King, AIA  P: 864.232.8200 F: 864.232.7587 E: aking@dp3architects.com	<b>Civil</b> Dutton Engineering 213 E. Broad Street Greenville, SC 29605 Contact: Lonnie Dutton  P: 864.331.1202 F: 864.277.8290 E: ldutton@mmsainc.com	<b>Plumbing</b> Peritus Engineers & Associates, Inc. 10 East Dorchester Boulevard Greenville, SC 29605 Contact: Jody Parker, PE  P: 864.277.8287 F: 864.277.8290 E: jparker@peritusengineers.com	<b>Mechanical</b> Peritus Engineers & Associates, Inc. 10 East Dorchester Boulevard Greenville, SC 29605 Contact: Jody Parker, PE  P: 864.277.8287 F: 864.277.8290 E: jparker@peritusengineers.com	<b>Electrical</b> Burdette Engineering 102 Pilgrim Road Greenville, SC 29607 Contact: Don Burdette  P: 864.297.8717 F: 864.297.8719 E: dburdette@burdetteengr.com
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Seal



10 JAN 2012



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Project



Softball Field Repairs and Upgrades

State Project Number H34-I350  
Project Number 11124  
Drawn By AKK  
Checked By MLT  
Date 12 Jan 2012

Revisions

Drawing

Cover Sheet

T1.1

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**LEGEND**

**CIVIL ABBREVIATIONS**

**CIVIL GENERAL NOTES**

	PROPOSED	EXISTING
HIGH PRESSURE STEAM		
PUMPED STEAM CONDENSATE		
HIGH PRESSURE CONDENSATE		
GAS LINE		
SANITARY SEWER LINE		
STORM DRAINAGE LINE		
POTABLE WATER LINE		
FIRE PROTECTION MAIN		
FOUNDATION DRAIN		
ROOF DRAIN		
DOWN SPOUT		
SILT FENCE		
CLEARING AND GRUBING LIMITS		
CHILLED WATER SUPPLY		
CHILLED WATER RETURN		
UNDERGROUND TELEPHONE		
UNDERGROUND ELECTRICAL		
FIRE HYDRANT		
CONCRETE THRUST BLOCK		
GATE VALVE & BOX		
STORM SEWER SINGLE WING CURB INLET AND NUMBER		
STORM SEWER CURB INLET AND NUMBER		
STORM SEWER DROP INLET AND NUMBER		
STORM SEWER DROP MANHOLE AND NUMBER		
CLEANOUT		
SANITARY SEWER MANHOLE AND NUMBER		
UTILITY POLE		
LIGHT POLE		
POWER VAULT		
CONTOUR		
SPOT ELEVATION		
TOP OF PAVEMENT		
TOP OF CONCRETE		
CHAIN LINK FENCE		
FLOW DIRECTION		
CURB & GUTTER		
EXISTING TREE TO BE REMOVED		
EXISTING UTILITY OR FENCE TO BE REMOVED		
EXISTING WALL TO BE REMOVED		
EXISTING UTILITY TO BE ABANDONED		
BUILDING/PAVEMENT/C&G/WALL TO BE REMOVED		
CONCRETE		
ASPHALT PAVEMENT (HEAVY DUTY)		
TREE OR BUSH LINE		
CULVERT PROTECTION		
STABILIZED CONSTRUCTION ENTRANCE		
GRAVEL DRIVE		
INLET PROTECTION		
EROSION CONTROL MATTING		
SEDIMENT TUBE		
GRASS PAVERS		
ASPHALT PAVEMENT (LIGHT DUTY)		

&	AND	±	PLUS OR MINUS
AD	AREA DRAIN	PC	POINT OF CURVATURE
ASP	ASPHALT	PI	POINT OF INTERSECTION
⊙	AT	PT	POINT OF TANGENCY
BLDG	BUILDING	PVC	POLYVINYL CHLORIDE
BOC	BACK OF CURB	PVMT	PAVEMENT
BTM	BOTTOM	R	RADIUS
BW	BOTTOM OF WALL	RCP	REINFORCED CONCRETE PIPE
CTR	CENTER	RD	ROOF DRAIN PIPE
CL	CENTERLINE	REQ'D	REQUIRED
CB	CATCH BASIN	SSMH	SANITARY SEWER MANHOLE
C&G	CURB & GUTTER	SWCB	SINGLE WING CATCH BASIN
CJ	CONTRACTION JOINT	TC	TOP OF CONCRETE
CO	CLEAN OUT	T/C	TOP OF CURB
CONC	CONCRETE	T/G	TOP OF GRATE
DI	DROP INLET	TG	TOP OF GRAVEL
DIA	DIAMETER	TD	TEMPORARY DIKE
DIP	DUCTILE IRON PIPE	TS&V	TAPPING SLEEVE & VALVE
DWG	DRAWING	TS	TOP OF SWALE
E	EAST	TP	TOP OF PAVEMENT
EL	ELEVATION	TW	TOP OF WALL
EJ	EXPANSION JOINT	TYP	TYPICAL
EOP	EDGE OF PAVEMENT	UNO	UNLESS NOTED OTHERWISE
EXIST	EXISTING	US	UNDERGROUND SECONDARY
FES	FLARED END SECTION	VERT	VERTICAL
FD	FOOTING DRAIN	W	WATER
FIN	FINISHED	W/	WITH
FF EL OR FF	FINISH FLOOR ELEVATION	W/O	WITHOUT
FG	FINISH GRADE	WWF	WELDED WIRE FABRIC
FOC	FACE OF CURB		
GV&B	GATE VALVE & BOX		
HDPE	HIGH DENSITY POLYETHYLENE PIPE		
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HW	HEADWALL		
IE	INVERT ELEVATION (EXIST)		
INV	INVERT (NEW)		
LF	LINEAR FEET		
LP	LOW POINT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MON	MONUMENT		
N	NORTH		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
# OR NO	NUMBER		
OC	ON CENTER		

- TOPOGRAPHIC INFORMATION WAS TAKEN FROM FIELD SURVEY PREPARED BY LANGFORD LAND SURVEYING, DATED APRIL 4, 2011.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING VERTICAL AND HORIZONTAL CONTROL ON SITE FOR PROJECT CONSTRUCTION FROM BENCH MARKS SHOWN ON PLANS.
- EXISTING UNDERGROUND UTILITIES WERE COMPILED FROM INFORMATION PROVIDED BY UTILITY COMPANIES AND BY FIELD LOCATION OF VISIBLE EVIDENCE. THE ACTUAL LOCATION OF ALL BELOW GROUND UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN DURING CONSTRUCTION.
- LIMITS OF CONSTRUCTION AND DISTURBANCE ARE INDICATED ON PLANS.
- BEFORE CONSTRUCTION OF SITE WORK BEGINS, THE CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS AS SHOWN ON PLANS. ANY DIFFERENCES SHALL BE ADJUSTED BY THE CONTRACTOR, AS APPROVED BY THE ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION COORDINATION OF ALL UTILITIES WITH OTHER SITE CONSTRUCTION ACTIVITIES TO MINIMIZE POTENTIAL CONSTRUCTION AND UTILITY INSTALLATION CONFLICTS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE FOR POSITIVE DRAINAGE OF THE SITE AT ALL TIMES, AND SHALL NOT CREATE AREAS WHICH POND WATER, EXCEPT WHERE REQUIRED BY THE EROSION CONTROL DOCUMENTS.
- CONTRACTOR SHALL MAKE ALLOWANCES DURING GRADING OPERATIONS FOR PROPER PLACEMENT OF BALLFIELD MATERIAL, TOPSOIL, SOD OR ANY OTHER FEATURE WHICH MUST BE ADJUSTED TO PROVIDE THE FINISH GRADE SHOWN.
- ALL SILT, SAND AND SEDIMENT SHALL BE REMOVED FROM ALL DRAINAGE STRUCTURES AS DIRECTED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE BOTH DURING AND PRIOR TO THE COMPLETION OF CONSTRUCTION.
- AT WATER AND SANITARY SEWER CROSSINGS ONE FULL LENGTH OF THE WATER MAIN SHALL BE LOCATED SUCH THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
- CONTRACTOR TO PROVIDE SOD PER SPECIFICATION SECTION 02832 "OUTFIELD SOD."
- THE CONTRACTOR WILL PROVIDE A PORTABLE TOILET IN AN AREA THAT IS NOT ADJACENT TO A WATERWAY OR STORM DRAINAGE.
- THE CONTRACTOR WILL PROVIDE A PLACE FOR CONCRETE TRUCKS TO WASHOUT. WHEN CONSTRUCTION IS COMPLETE THE WASTE IS TO BE HAULED OFF TO A LANDFILL.

**HAZARDOUS MATERIALS:**  
IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. OWNER WILL REMOVE HAZARDOUS MATERIALS PRIOR TO BEGINNING OF CONTRACT. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED. DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

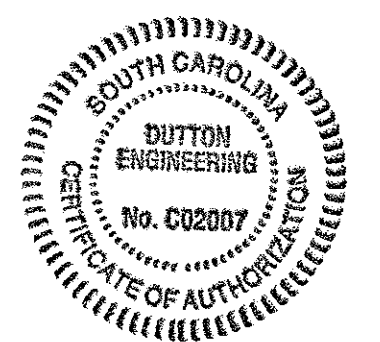
CONTRACTOR TO FIELD VERIFY SURVEYORS CONTROL POINTS FOR VERTICAL AND HORIZONTAL CONTROL BEFORE STARTING CONSTRUCTION.

BEFORE DIGGING, CONTRACTOR TO NOTIFY PALMETTO UTILITY LOCATION SERVICE, METROPOLITAN SUBDISTRICT WATER & SEWER, USC UPSTATE FACILITY MANAGER & DIRECTOR OF LANDSCAPING A MINIMUM OF 3 DAYS BEFORE STARTING CONSTRUCTION.



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Project



Softball Field Repairs and Upgrades

State Project Number H34-1350  
Project Number 11124  
Drawn By CLW  
Checked By TLD  
Date 12 Jan 2012

Revisions

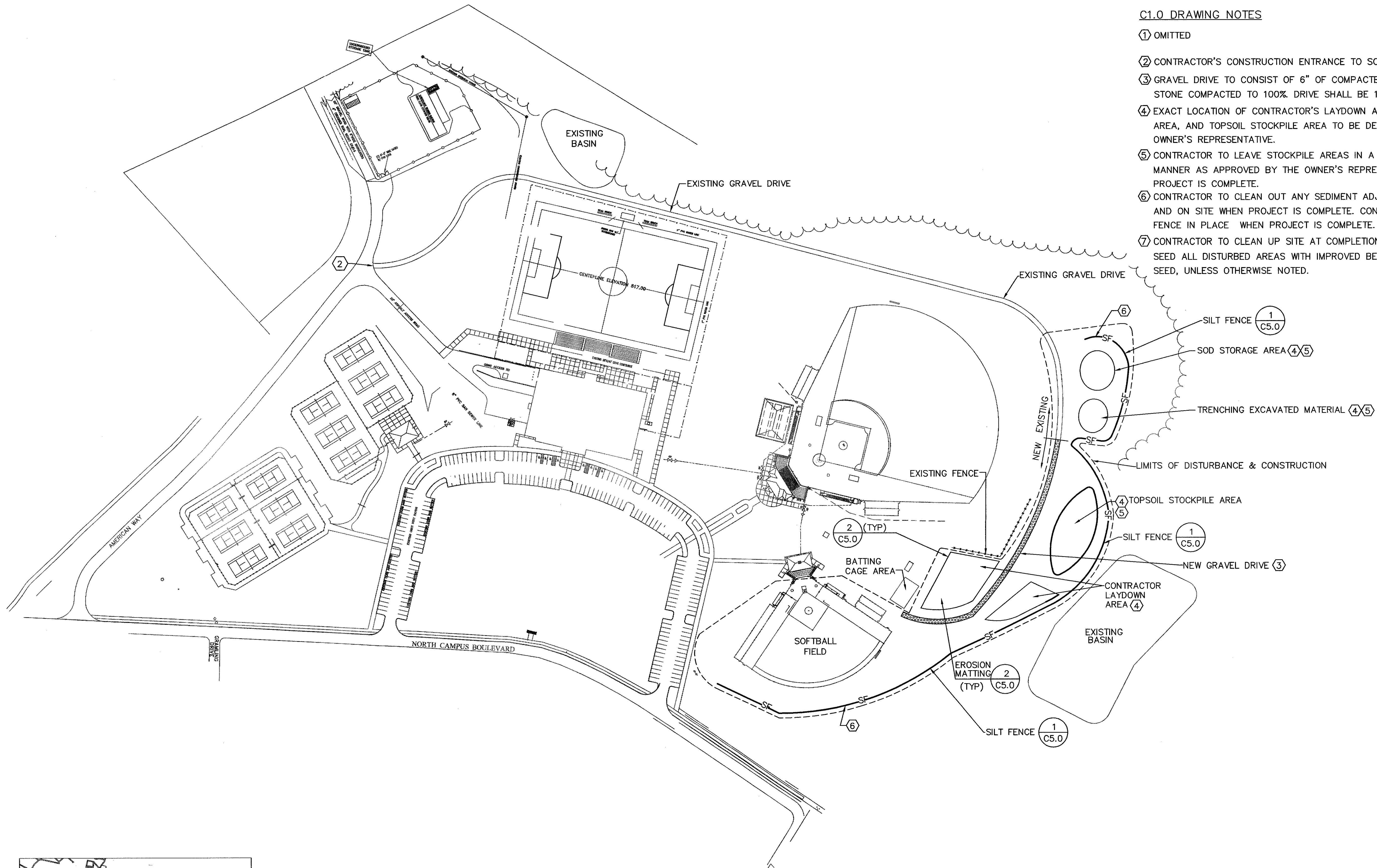
Drawing

Civil Legend, Abbreviations, and Notes

C0.1

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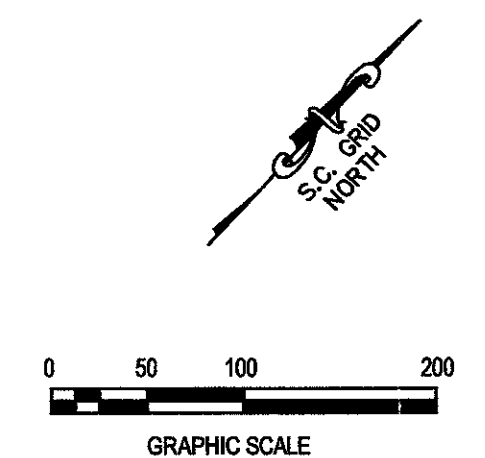
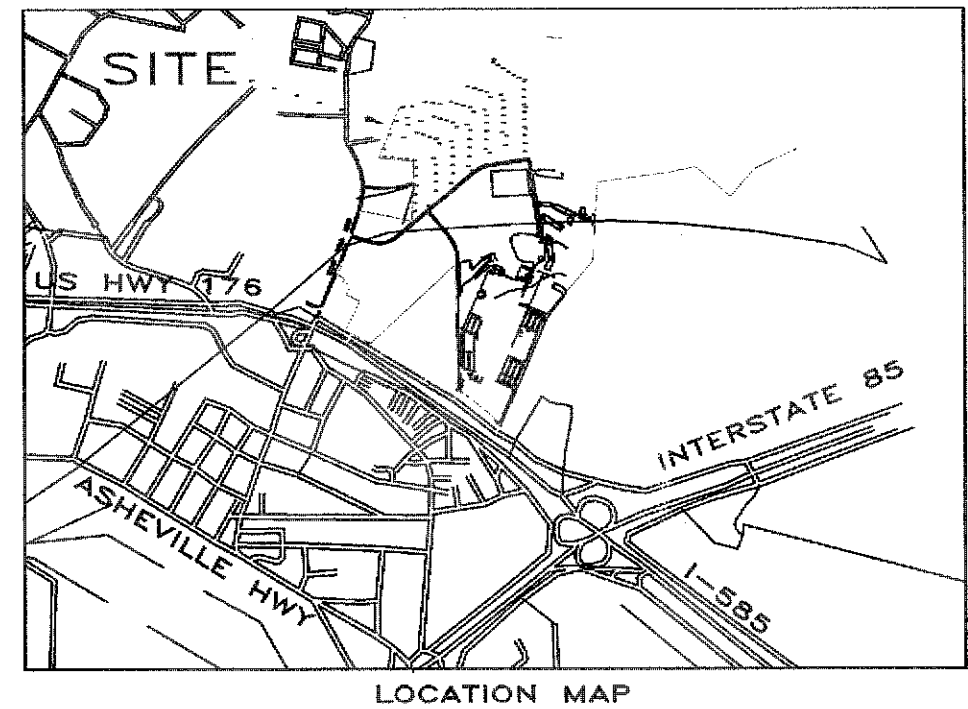
**C1.0 GENERAL NOTES**

1. SEE CIVIL DRAWING C0.1 FOR CIVIL LEGEND, ABBREVIATIONS, AND NOTES.

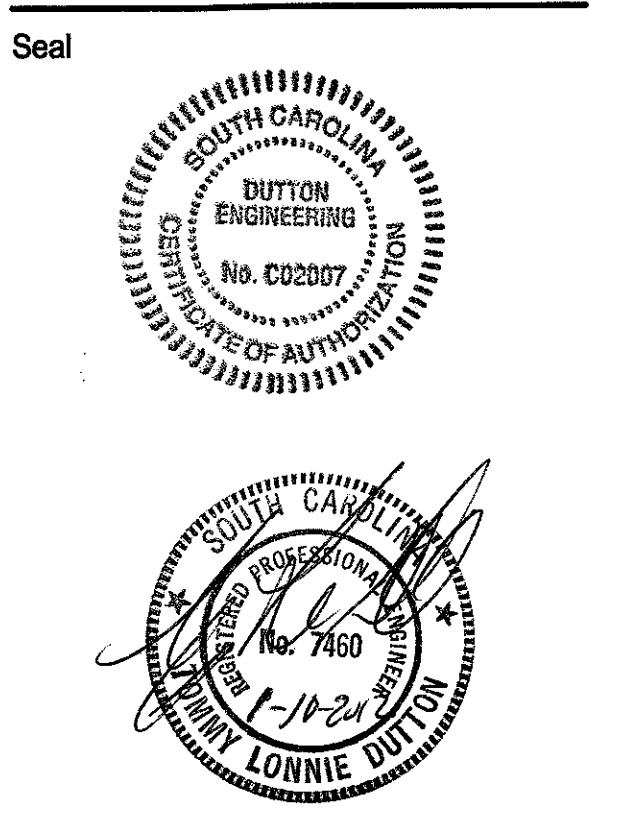
**C1.0 DRAWING NOTES**

- ① OMITTED
- ② CONTRACTOR'S CONSTRUCTION ENTRANCE TO SOFTBALL FIELD.
- ③ GRAVEL DRIVE TO CONSIST OF 6" OF COMPACTED CRUSH AND RUN STONE COMPACTED TO 100%. DRIVE SHALL BE 12' WIDE AND 550' LONG.
- ④ EXACT LOCATION OF CONTRACTOR'S LAYDOWN AREA, SOD STORAGE AREA, AND TOPSOIL STOCKPILE AREA TO BE DETERMINED BY THE OWNER'S REPRESENTATIVE.
- ⑤ CONTRACTOR TO LEAVE STOCKPILE AREAS IN A CLEAN AND NEAT MANNER AS APPROVED BY THE OWNER'S REPRESENTATIVE ONCE THE PROJECT IS COMPLETE.
- ⑥ CONTRACTOR TO CLEAN OUT ANY SEDIMENT ADJACENT TO SILT FENCE AND ON SITE WHEN PROJECT IS COMPLETE. CONTRACTOR TO LEAVE SILT FENCE IN PLACE WHEN PROJECT IS COMPLETE.
- ⑦ CONTRACTOR TO CLEAN UP SITE AT COMPLETION OF CONSTRUCTION AND SEED ALL DISTURBED AREAS WITH IMPROVED BERMUDA COMMON HULL SEED, UNLESS OTHERWISE NOTED.

- SILT FENCE ① C5.0
- SOD STORAGE AREA ④⑤
- TRENCHING EXCAVATED MATERIAL ④⑤
- LIMITS OF DISTURBANCE & CONSTRUCTION
- ④ TOPSOIL STOCKPILE AREA
- SILT FENCE ① C5.0
- NEW GRAVEL DRIVE ③
- CONTRACTOR LAYDOWN AREA ④
- EXISTING BASIN
- EROSION MATTING ② C5.0 (TYP)
- SILT FENCE ① C5.0



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Project  
**UPSTATE USC**

**Softball Field Repairs and Upgrades**

State Project Number H34-I350  
 Project Number 11124  
 Drawn By CLW  
 Checked By TLD  
 Date 12 Jan 2012

Revisions

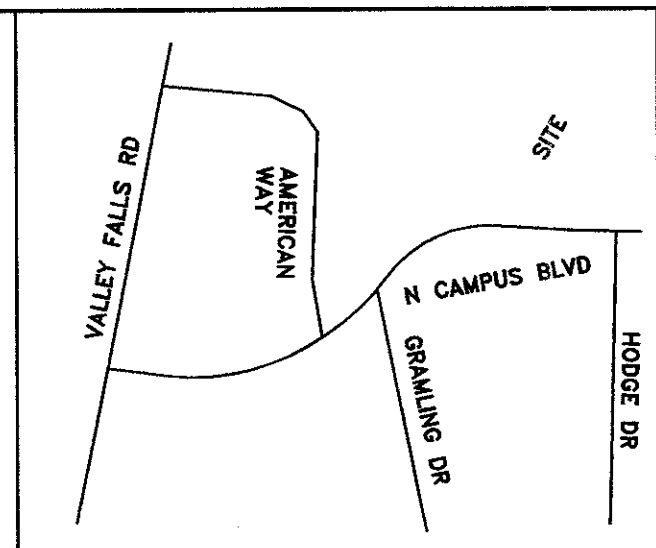
Drawing  
**Overall Site Plan**

**C1.0**

- 1/2" IRON PIN FOUND
- WATER VALVE
- IRRIGATION VALVE
- SANITARY SEWER MANHOLE
- CLEAN OUT
- SPRINKLER HEAD
- LIGHTPOLE
- 4" PLASTIC FENCE
- 6" CHAIN LINK FENCE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- IRRIGATION WATER
- STORM DRAINAGE
- SANITARY SEWER LINE
- POTABLE WATER

**LANGFORD**  
**LAND**  
**SURVEYING**

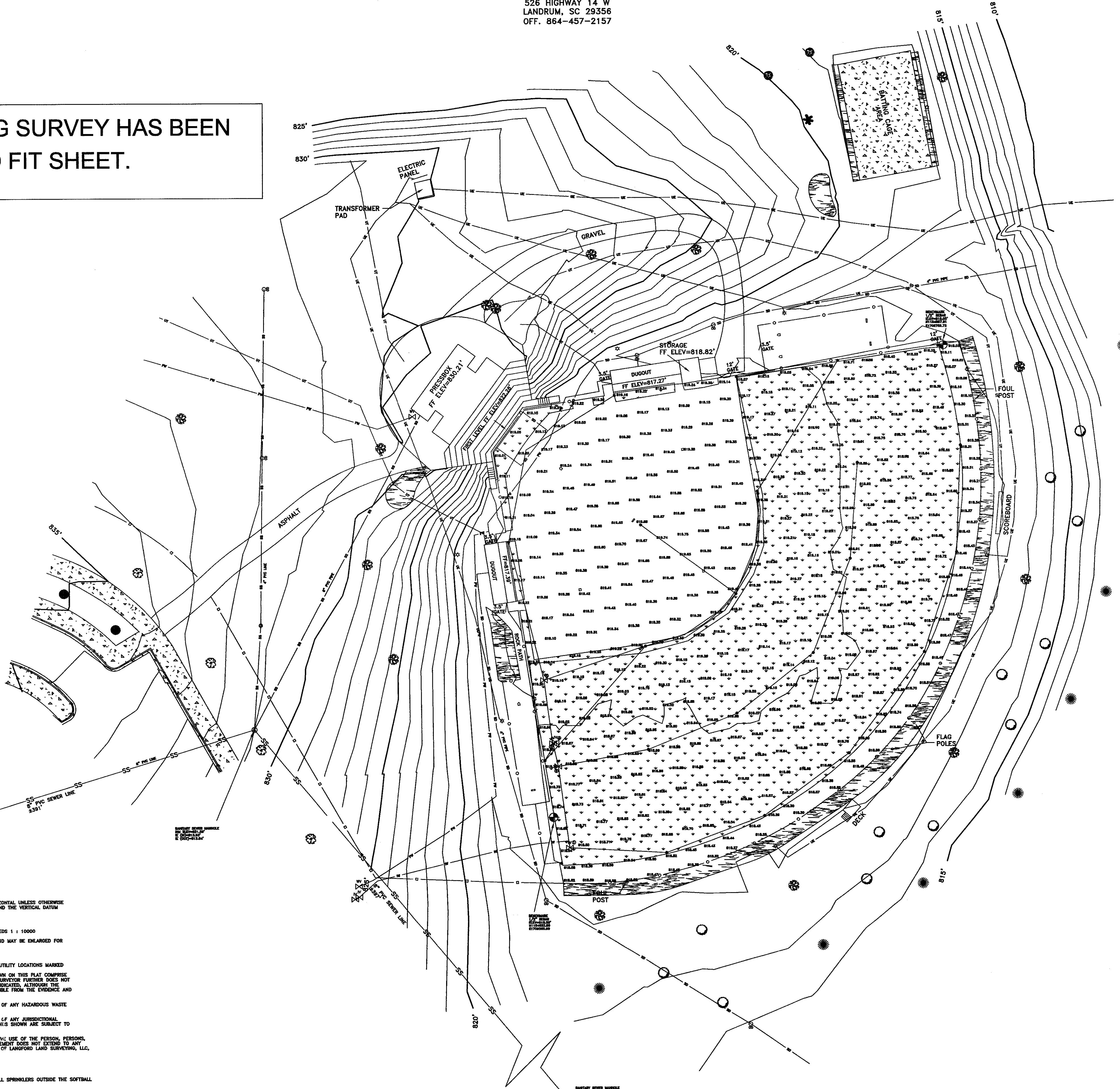
526 HIGHWAY 14 W  
 LANDRUM, SC 29356  
 OFF. 864-457-2157



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 Email: ldutton@mmsainc.com

THE EXISTING SURVEY HAS BEEN  
 REDUCED TO FIT SHEET.



IRRIGATION VALVE BOX	ELEVATION
1	818.20
2	818.20
3	818.20
4	818.20
5	818.20

UTILITIES:  
 METROPOLITAN SUB DISTRICT B WATER  
 7320 JENNINGS ST  
 SPARTANBURG, SC 29303  
 864-555-0822

DUKE ENERGY  
 300 JONES RD  
 SPARTANBURG, SC 29307  
 864-579-1563

AT&T  
 1450 WO EZELL BLVD  
 SPARTANBURG, SC 29301  
 864-576-1800

- NOTES:**
- BEARING ARE BASED ON NORTH CAROLINA GRID AND DISTANCES ARE HORIZONTAL UNLESS OTHERWISE SHOWN OR NOTED. COORDINATES ARE ON SOUTH CAROLINA GRID (NAD 83) AND THE VERTICAL DATUM IS (NAD 83) BASED ON SOUTH CAROLINA GEODETIC MONUMENT EC2871.
  - ALL IRON PINS SET ARE 1/2" REBAR UNLESS NOTED OTHERWISE.
  - THE RATIO OF PRECISION OF THE UNBALANCED TRAVERSE MEETS OR EXCEEDS 1 : 10000
  - THE FEATURE SYMBOL LOCATIONS ARE TO THE CENTER OF THE SYMBOL AND MAY BE ENLARGED FOR CLARITY.
  - THE CONTOURS SHOWN ARE AT 1 FOOT INTERVALS.
  - THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM UTILITY LOCATIONS MARKED ON THE GROUND. MARKING WERE PROVIDED BY USC UPSTATE. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ON THIS PLAT COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE UNDERGROUND NOTES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE EVIDENCE AND INFORMATION AVAILABLE AND PROVIDED.
  - THE UNDERSEWER DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF ANY HAZARDOUS WASTE ON THE SURVEY SITE.
  - THE UNDERSEWER DOES NOT WARRANT THE EXISTENCE OR NONEXISTENCE OF ANY JURISDICTIONAL WETLANDS ON THE SURVEY SITE OTHER THAN THOSE SHOWN. IF ANY, WETLANDS SHOWN ARE SUBJECT TO FINAL APPROVAL BY THE U.S. CORPS OF ENGINEERS.
  - THIS PLAT WAS PREPARED AS A PROFESSIONAL SERVICE FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS, OR ENTITY NAMED WITHIN THE REASON STATEMENT AND/OR TITLE. SAID STATEMENT DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESSED PERMISSION OF LANGFORD LAND SURVEYING, LLC, NAMING SAID PERSON, PERSONS OR ENTITY.
  - NO BOUNDARY WORK WAS DONE.
  - DATA FOR TOPOGRAPHIC INFORMATION IS HAYD 83.
  - SPRINKLER SYSTEM WAS LOCATED WITHIN THE SOFTBALL FIELD AREA. ALL SPRINKLERS OUTSIDE THE SOFTBALL FIELD AREA WERE NOT LOCATED, BUT ARE PRESENT.

TOPOGRAPHIC SURVEY FOR:  
**USC UPSTATE**

LOCATION: USC UPSTATE SOFTBALL FIELD  
 SPARTANBURG COUNTY, SC  
 TAX MAP NO.: 2-56-00-027.00  
 DATE: 4 APR 2011 JOB NO.: 249211

SCALE: 1" = 20'

0 10 20 40 60

I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS B SURVEY AS SPECIFIED THEREIN.

SC REGISTRATION NO.: 10386

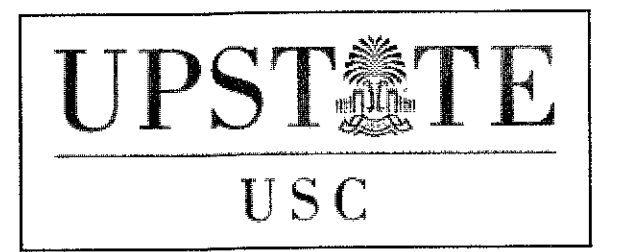
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Project



Softball Field Repairs  
 and Upgrades

State Project Number H34-1350  
 Project Number 11124  
 Drawn By CLW  
 Checked By TLD  
 Date 12 Jan 2012

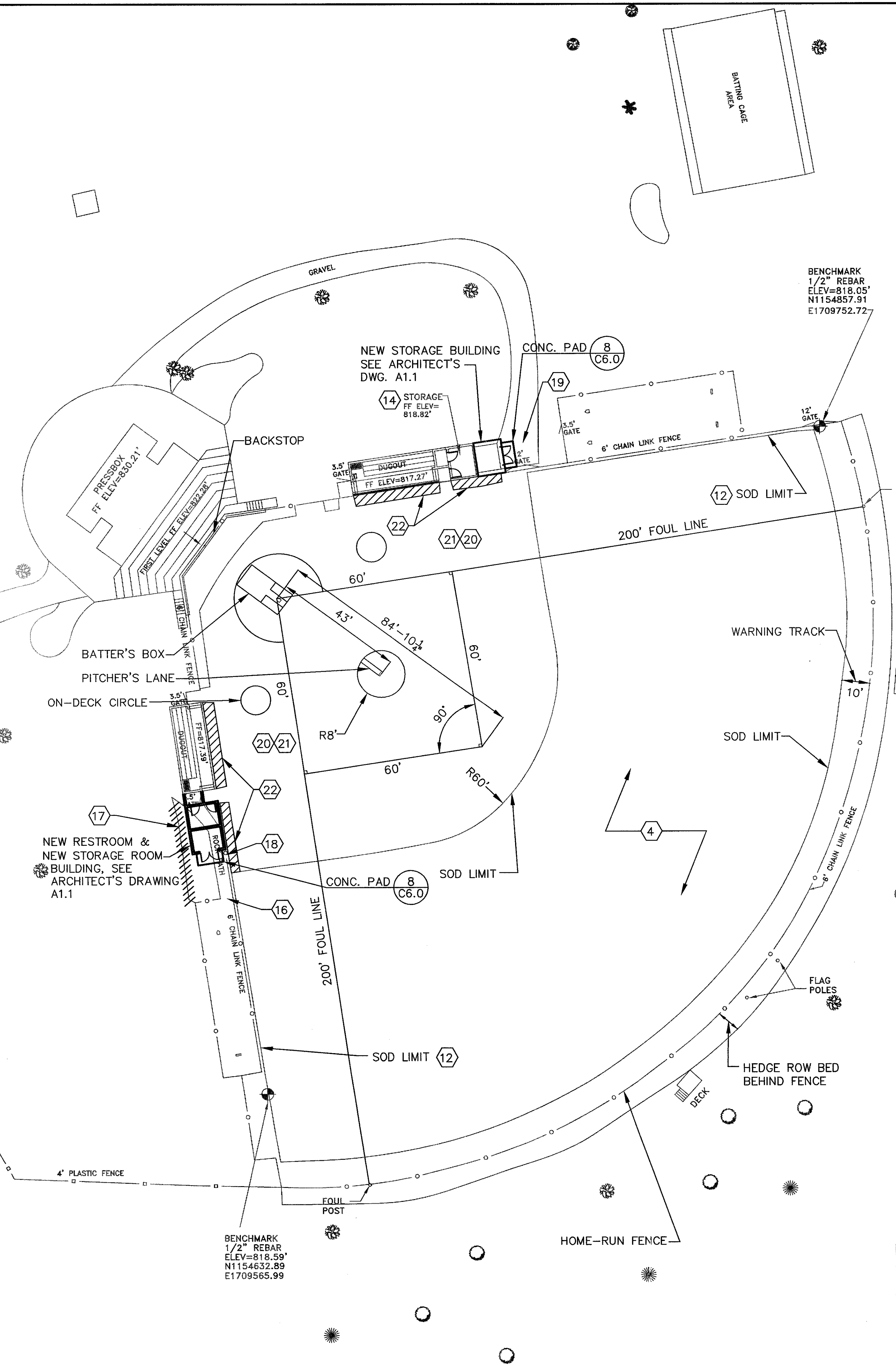
Revisions

Drawing

Existing Survey

C1.1

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CONTRACTOR TO REPLACE ANY CHAIN LINK FENCE THAT HAS BEEN DAMAGED DURING CONSTRUCTION TO OWNER'S REPRESENTATIVE'S SATISFACTION.

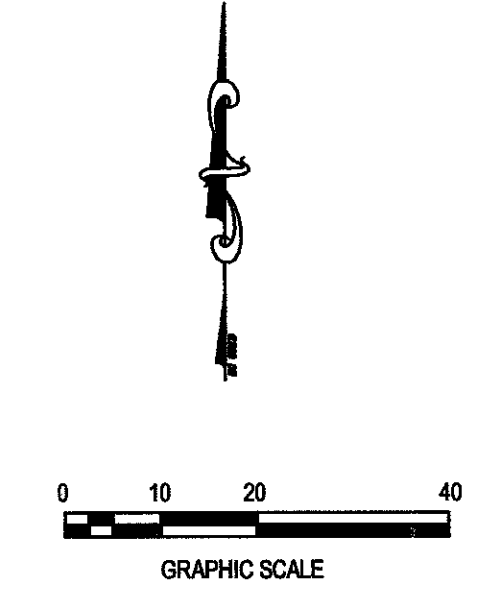
**C2.0 GENERAL NOTES**

1. SEE CIVIL DRAWING C0.1 FOR CIVIL LEGEND, ABBREVIATIONS, AND NOTES.

**C2.0 DRAWING NOTES**

**SOD REMOVAL AND REPLACEMENT**

- ① CONTRACTOR TO REMOVE EXISTING SOD BY STRIPPING WITH A COMBINATOR. METHOD OF REMOVING SOD SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.
  - ② CONTRACTOR TO STOCKPILE SOD IN AN AREA INDICATED ON DRAWING C1.0 OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
  - ③ ONCE SOD HAS BEEN REMOVED THE CONTRACTOR WILL REMOVE A MINIMUM OF 4 INCHES OF EXISTING SAND/TOPSOIL MATERIAL AND STOCKPILE IN AREA INDICATED ON DRAWING C1.0 OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
  - ④ ONCE 4 INCHES OF MATERIAL HAS BEEN REMOVED THE CONTRACTOR WILL ROTO-TILL 6 INCHES OF EXISTING SOIL IN ONE DIRECTION AND THEN AGAIN AT 90°.
  - ⑤ CONTRACTOR TO INSTALL SANITARY SEWER LINE AND MULTI-FLOW DRAINAGE SYSTEM. (SEE DRAWING C3.0)
  - ⑥ CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING OR REPAIRING ANY DAMAGED IRRIGATION HEAD, IRRIGATION PIPES OR WIRING.
  - ⑦ AFTER THE MULTI-FLOW DRAINAGE SYSTEM HAS BEEN INSTALLED THE CONTRACTOR WILL INSTALL BACK 2 INCHES OF EXISTING MATERIAL THAT WAS TAKEN OUT OF THE OUTFIELD.
  - ⑧ CONTRACTOR TO INSTALL 2 INCHES OF USGA SPEC. GREENS GRADE SAND ON TOP OF THE EXISTING MATERIAL IN THE OUTFIELD AND BRING TO REQUIRED GRADE USING A LASER GRADER.
  - ⑨ CONTRACTOR TO NOTIFY OWNER'S SURVEYOR BEFORE INSTALLING SOD. SURVEYOR WILL SURVEY FIELD TO VERIFY DESIGN ELEVATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY ELEVATIONS AND OBTAINING OWNER'S REPRESENTATIVE'S PERMISSION BEFORE INSTALLING THE SOD.
  - ⑩ CONTRACTOR REQUIRED TO LAYOUT SOFTBALL FIELD OUTFIELD SOD LIMITS BEFORE INSTALLING SOD.
  - ⑪ SOD (CERTIFIED TIFWAY 419 BERMUDA, GROWN ON SAND BASE, SOD TO BE INSPECTED AND APPROVED BY OWNER'S REPRESENTATIVE AT SOD FARM, BEFORE DELIVERY TO SITE) TO BE LAID IN ROLLS WITH SEAMS ABUTTING EACH OTHER IN A NEAT STRAIGHT EDGE WITH NO GAPS BETWEEN THE SOD SEAMS. SEAMS TO BE SMOOTHED OUT WITH USGA SPEC. GREENS GRADE SAND.
  - ⑫ CONTRACTOR TO INSTALL SOD UP TO 8 INCHES OF THE SIDELINE FENCE.
  - ⑬ CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE FOR A WALK-THROUGH ONCE HE HAS FINISHED THE SOFTBALL FIELD. ANY DISCREPANCY WILL BE CORRECTED BY THE CONTRACTOR.
  - ⑭ CONTRACTOR TO RENOVATE EXISTING STORAGE ROOM INTO A RESTROOM. SEE ARCHITECT'S DRAWING A1.1.
  - ⑮ CONTRACTOR TO REMOVE EXISTING DOUBLE SWING GATES (2-6' GATES) AND PART OF EXISTING FENCING AND INSTALL NEW GATES (2 - 6' GATES) AND NEW FENCING TO MATCH EXISTING.
  - ⑯ CONTRACTOR TO PROVIDE NEW 3.5' CHAIN LINK GATE TO MATCH EXISTING FENCE.
  - ⑰ CONTRACTOR TO REMOVE EXISTING SHRUBS.
  - ⑱ CONTRACTOR TO RELOCATE EXISTING 3.5' GATE ALONG EXISTING FENCE LINE ADJACENT TO NEW BUILDING.
  - ⑲ CONTRACTOR TO REMOVE EXISTING GRAVEL AND GRADE AREA AS NEEDED TO INSURE POSITIVE DRAINAGE AWAY FROM NEW BUILDING. CONTRACTOR TO RESURFACE EXISTING GRAVEL OVER PATH TO BALL FIELD.
- WORK REQUIRED ON THE INFIELD**
- ⑳ AFTER THE SANITARY SEWER LINE HAS BEEN INSTALLED AND COMPACTED, CONTRACTOR REQUIRED TO BRING INFIELD UP TO EXISTING GRADES (USING GLASSCOCK INFIELD MIX ONLY, SUPPLIER PHONE NO. 803-494-2694) AS INDICATED ON CIVIL DRAWING C4.0.
  - ㉑ CONTRACTOR TO SKIN INFIELD AS REQUIRED TO OBTAIN EXISTING GRADES.
  - ㉒ CONTRACTOR TO REPLACE EXISTING SOD IN FRONT OF DUGOUTS AND OTHER AREAS IN THE INFIELD AS DENOTED.



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Project  
  
 UPSTATE  
 USC

**Softball Field Repairs and Upgrades**

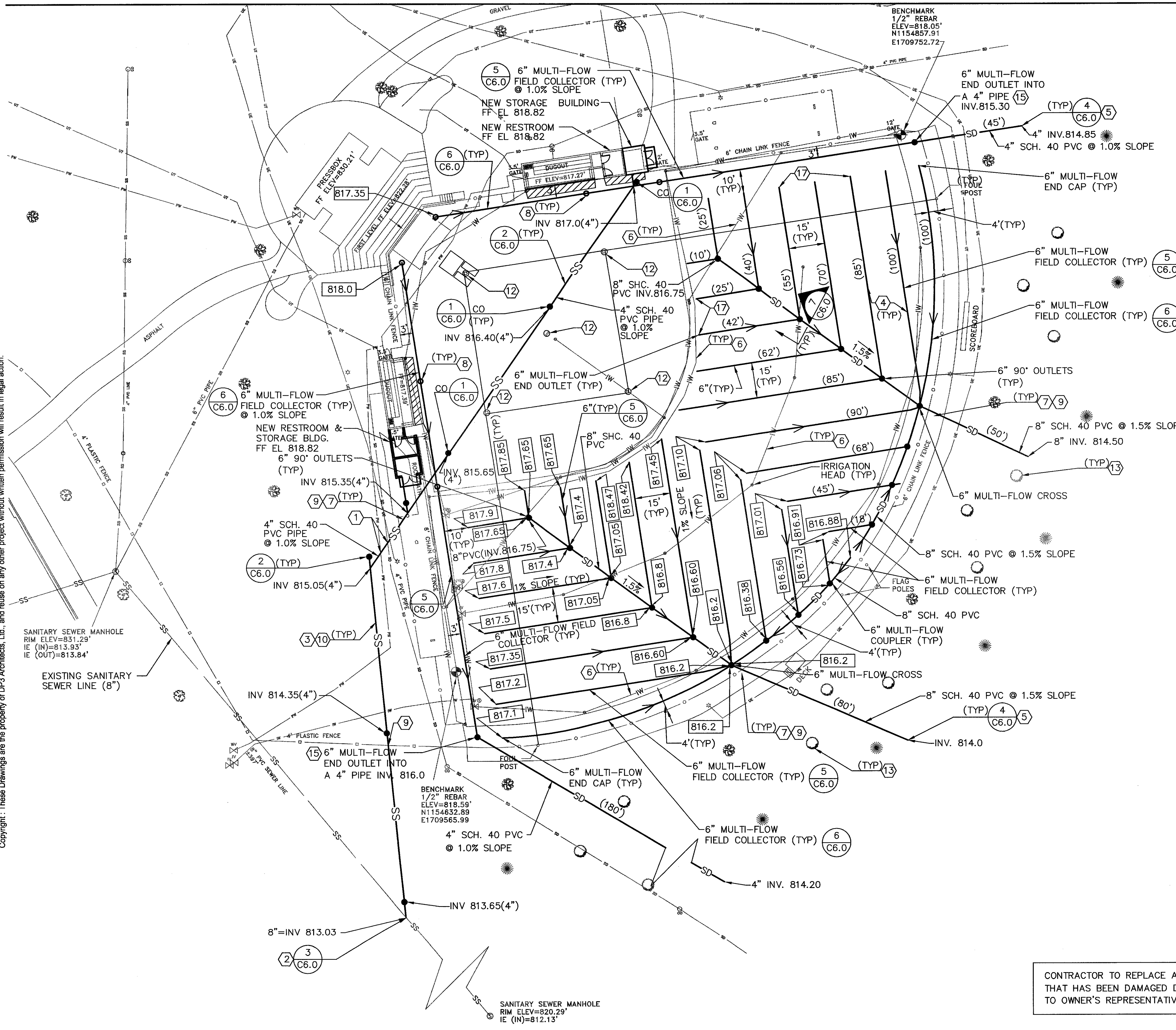
State Project Number	H34-1350
Project Number	11124
Drawn By	CLW
Checked By	TLD
Date	12 Jan 2012

Revisions

Drawing  
 Softball Field Layout Plan

**C2.0**

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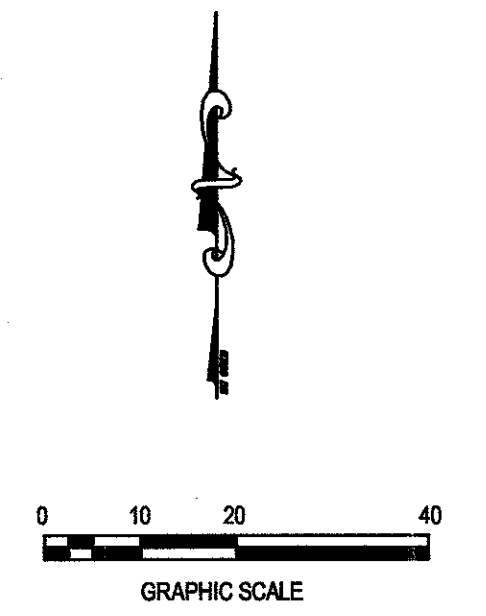
**C3.0 GENERAL NOTES**

1. SEE CIVIL DRAWING C0.1 FOR CIVIL LEGEND, ABBREVIATIONS, AND NOTES.

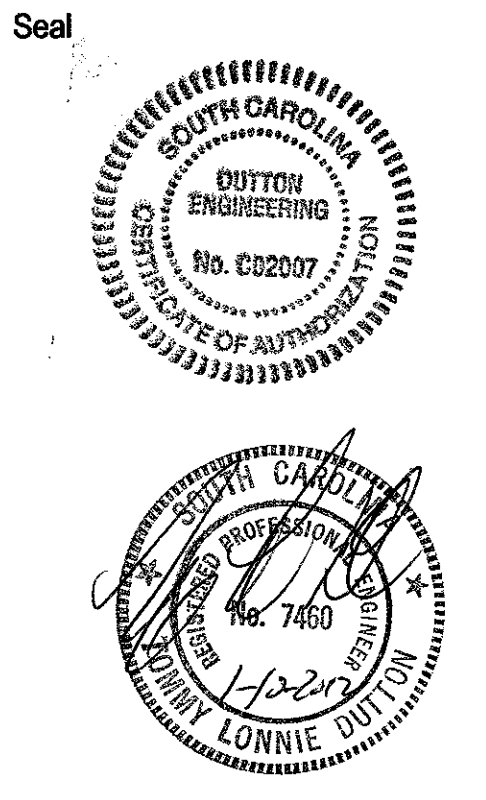
**C3.0 DRAWING NOTES**

- 1 CONTRACTOR TO VERIFY EXISTING PIPE ELEVATIONS BEFORE INSTALLING THE NEW 4" SANITARY SEWER LINE.
- 2 CONTRACTOR TO VERIFY EXISTING SANITARY SEWER ALIGNMENT AND INVERT ELEVATION BEFORE INSTALLING NEW SANITARY SEWER LINE.
- 3 CONTRACTOR TO INSTALL NEW SOD (CERTIFIED TIFWAY 419 BERMUDA) OVER DISTURBED GRASSED AREAS DUE TO INSTALLATION OF SEWER LINE. DISTURBED AREA SOIL TO BE COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR (ASTM D-698) AND FINE GRADED BEFORE INSTALLING SOD.
- 4 CONTRACTOR TO INSTALL ALL 6" MULTI-FLOW SYSTEM AT A 1.0% SLOPE PER DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND SPECIFICATIONS.
- 5 CONTRACTOR TO ROUTE DISCHARGE PIPES TO DAYLIGHT.
- 6 CONTRACTOR RESPONSIBLE FOR REPAIRING/REPLACING ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM CAUSED DURING CONSTRUCTION. ANY REPAIRS TO IRRIGATION SYSTEM MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- 7 CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE (FOR REMOVAL) OF ANY PLANTS THAT WILL NEED TO BE REMOVED FOR PIPE INSTALLATION.
- 8 ADAPTER AND COUPLING WITH REMOVEABLE CAP. (6 REQ'D) TOP OF CAP TO BE LOCATED 6" BELOW FINISH GRADE.
- 9 CONTRACTOR RESPONSIBLE FOR REMOVING EXISTING CHAIN LINK FENCE DURING CONSTRUCTION OF SANITARY SEWER LINE AND MULTI-FLOW SYSTEM INSTALLATION. CONTRACTOR TO REINSTALL CHAIN LINK FENCE AFTER CONSTRUCTION OF SEWER LINE AND MULTI-FLOW SYSTEM. CONTRACTOR TO REPLACE ANY CHAIN LINK FENCE DAMAGED DUE TO CONSTRUCTION AS APPROVED BY OWNER'S REPRESENTATIVE.
- 10 CONTRACTOR REQUIRED TO USE TRENCH BOX WHEN EXCAVATING FOR NEW SANITARY SEWER LINE IN DEPTH EXCEEDING 4'.
- 11 INVERT ELEVATIONS ON THE MULTI-FLOW SYSTEM ARE INDICATED AS A GUIDE. FINAL INVERT ELEVATIONS MAY BE ADJUSTED DUE TO FIELD CONDITIONS WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 12 CONTRACTOR REQUIRED TO PROTECT BASES, HOME PLATE, AND PITCHER'S PLATE AT ALL TIMES DURING CONSTRUCTION.
- 13 CONTRACTOR TO PROTECT EXISTING TREES DURING CONSTRUCTION.
- 14 CONTRACTOR TO REPAIR ANY DAMAGED WIRING TO THE IRRIGATION SYSTEM TO THE OWNER'S REPRESENTATIVE'S SATISFACTION.
- 15 CONTRACTOR TO INSTALL A 3" TO 4" INCREASER PIPE.
- 16 817.9 DENOTES INVERT ELEVATIONS OF MULTI-FLOW SYSTEM ON THIS DRAWING.
- 17 CONTRACTOR TO REPEAT SAME INVERT ELEVATIONS AS INDICATED ON ADJACENT DRAINAGE SYSTEM.

CONTRACTOR TO REPLACE ANY CHAIN LINK FENCE THAT HAS BEEN DAMAGED DURING CONSTRUCTION TO OWNER'S REPRESENTATIVE'S SATISFACTION.



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Project  
**UPSTATE**  
 USC

**Softball Field Repairs and Upgrades**

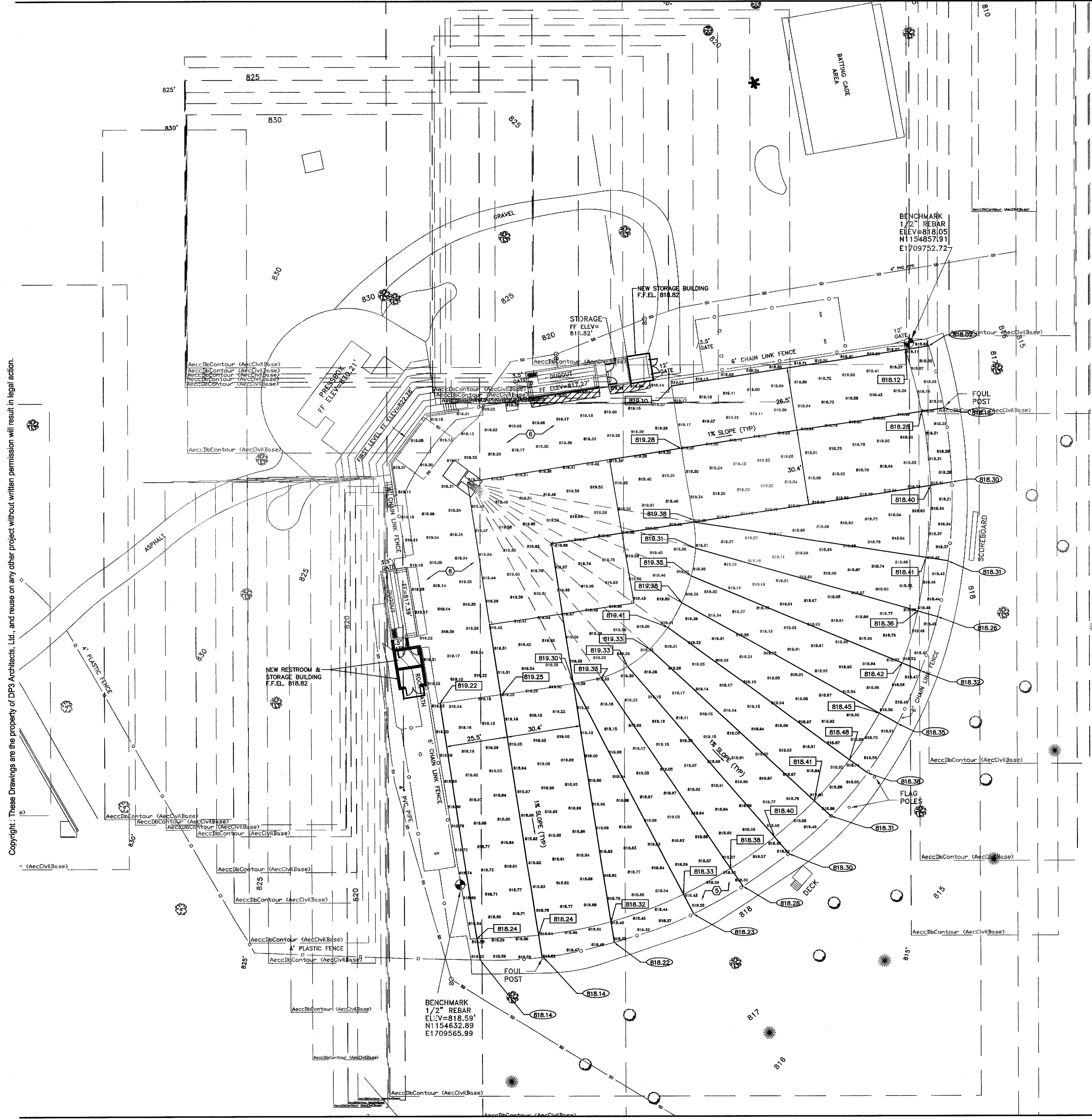
State Project Number	H34-I350
Project Number	11124
Drawn By	CLW
Checked By	TLD
Date	12 Jan 2012

Revisions

Drawing  
**Softball Field Multi-Flow Drainage & Sewer Plan**

**C3.0**

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C4.0 GENERAL NOTES

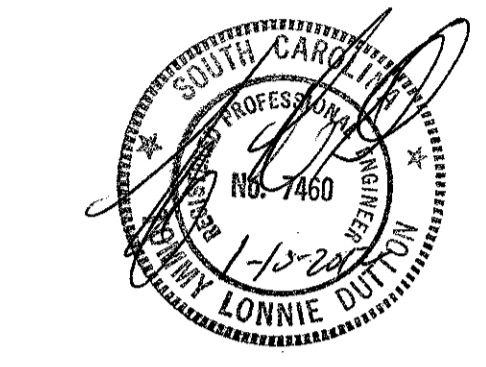
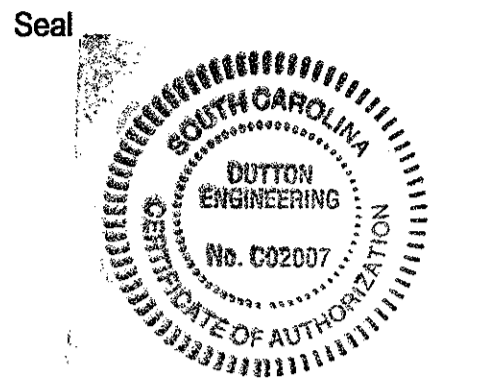
1. SEE CIVIL DRAWING C0.1 FOR CIVIL LEGEND, ABBREVIATIONS, AND NOTES.

C4.0 DRAWING NOTES

- ① SEE NOTES ON DRAWING C2.0 FOR REMOVAL OF EXISTING SOD AND MATERIAL UNDER THE SOD IN THE OUTFIELD AND WARNING TRACK AREAS.
- ② SEE DRAWING C3.0 FOR INSTALLATION OF MULTI-FLOW DRAINAGE SYSTEM AND SANITARY SEWER PIPING.
- ③ 818.18 - DENOTES FINISH GRADE ELEVATIONS INCLUDING SOD ON THIS DRAWING.
- ④ 818.18 - DENOTES FINISH GRADE ELEVATION OF WARNING TRACK ON THIS DRAWING.
- ⑤ 10' WARNING TRACK.
- ⑥ CONTRACTOR REQUIRED TO BRING INFIELD UP TO EXISTING GRADE, USING GLASSROCK INFIELD MIX ONLY, AFTER INSTALLATION OF THE SANITARY SEWER LINE. CONTRACTOR TO SKIN INFIELD AS REQUIRED TO OBTAIN EXISTING GRADE.



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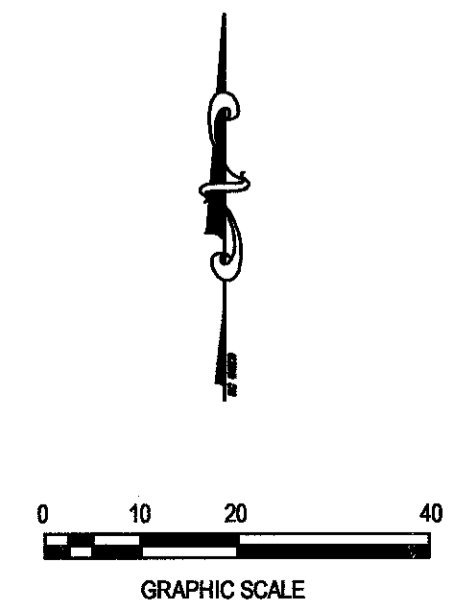
Softball Field Repairs and Upgrades

State Project Number	H34-1350
Project Number	11124
Drawn By	CLW
Checked By	TLD
Date	12 Jan 2012

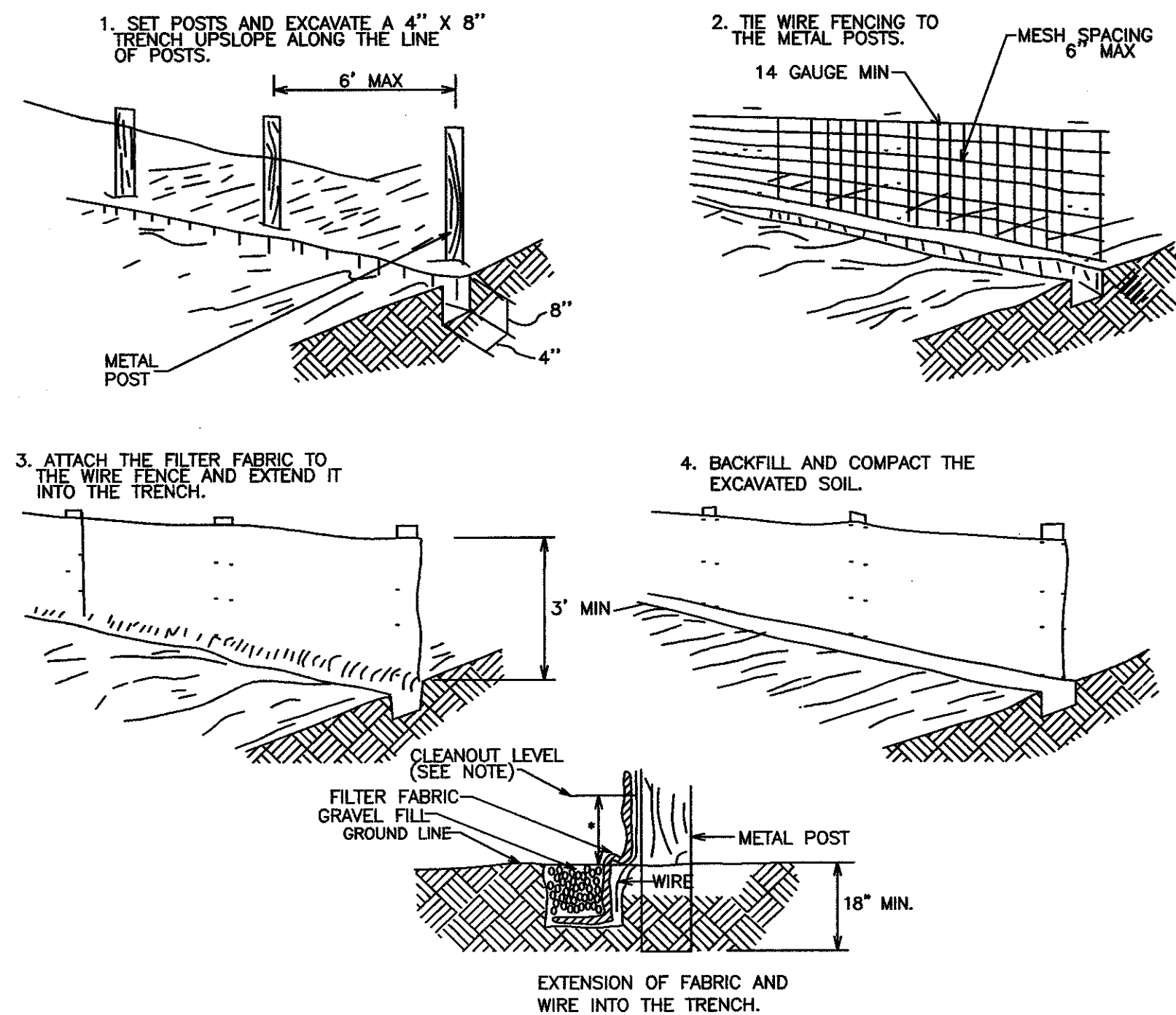
Revisions

Drawing  
Softball Outfield Grading Plan

C4.0

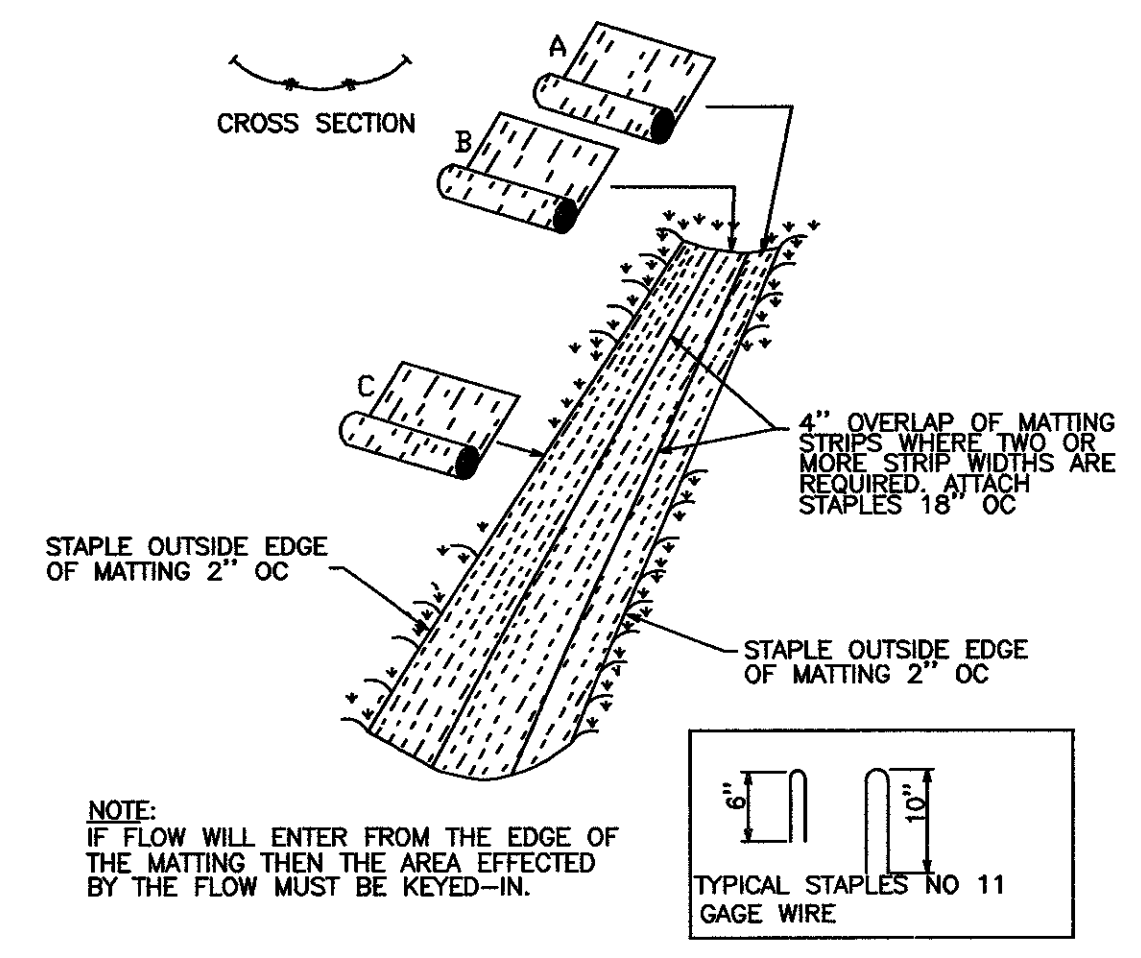


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**SILT FENCE INSTALLATION** (1) (C5.0)  
NOT TO SCALE

- NOTES:
- CONTRACTOR TO CLEAN OUT SEDIMENT ALONG THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
  - SEE NOTE #7 UNDER SEDIMENT AND EROSION CONTROL NOTES THIS DRAWING FOR FREQUENCY OF INSPECTION.



**CONSTRUCTION SPECIFICATIONS**

- KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 6" IN DEPTH, BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
- STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
- BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
- STAPLES SHALL BE PLACED 2" APART WITH 4 ROWS FOR EACH STRIP. 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
- WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4" IN SHIP-LAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
- THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES.

**EROSION CONTROL MATTING** (2) (C5.0)  
NOT TO SCALE

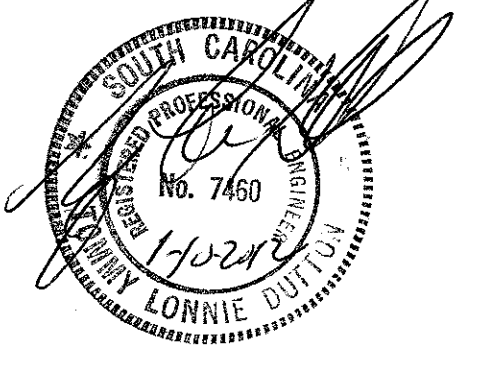
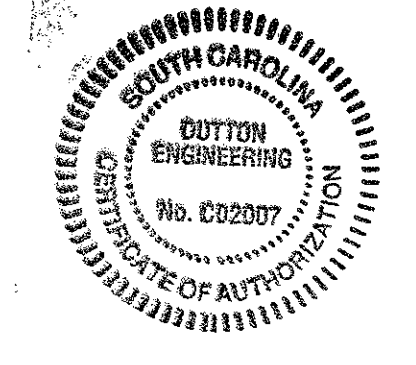
**SEDIMENT AND EROSION CONTROL NOTES**

- SEE DWG C0.1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND FUNCTIONING PRIOR TO BEGINNING ANY PROJECT EARTH DISTURBING ACTIVITIES.
- TO SECURE THE PROJECT SITE, LOCATE LIMITS OF CONSTRUCTION, PROTECT AREAS THAT ARE TO REMAIN UNDISTURBED, AND PREVENT MIGRATION OF CONSTRUCTION DEBRIS, ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED AROUND AREAS NOT REQUIRING SILT FENCING. ANY ACCUMULATION OF CONSTRUCTION DEBRIS ON PUBLIC ROADWAYS OR ADJACENT PROPERTIES SHALL BE REMOVED WITHIN 24 HOURS. CARE SHALL BE TAKEN WHEN INSTALLING CONSTRUCTION FENCING TO NOT OBSCURE ONCOMING TRAFFIC AT INTERSECTIONS, ADJACENT DRIVEWAYS AND THE PROJECT CONSTRUCTION ENTRANCE.
- SLOPES WHICH EXCEED 3:1 UNO SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- CAT TRACK OR SURFACE ROUGHENING IS REQUIRED FOR ALL SLOPES GREATER THAN 3:1 PRIOR TO SEEDING AND LYING OF SYNTHETIC OR VEGETATIVE MATS. CAT TRACKING OR SURFACE ROUGHENING SHALL PRODUCE A SURFACE WITH FURROWS RUNNING ACROSS THE SLOPE, PARALLEL WITH SLOPE CONTOURS, AND PERPENDICULAR TO SURFACE RUNOFF.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS. IF SITE INSPECTIONS IDENTIFY BMPs THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL EROSION CONTROLS SHALL BE INSPECTED UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, UNO.
- TEMPORARY STOCKPILING OF USEABLE OR WASTE MATERIALS SHALL HAVE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- ALL EXISTING OR NEW STORM WATER STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATED CONSTRUCTION DEBRIS OR SEDIMENTS FROM THIS PROJECT SITE. DISPOSAL OF ALL RECOVERED SEDIMENTS AND CONSTRUCTION DEBRIS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM THE CONSTRUCTION AREAS.



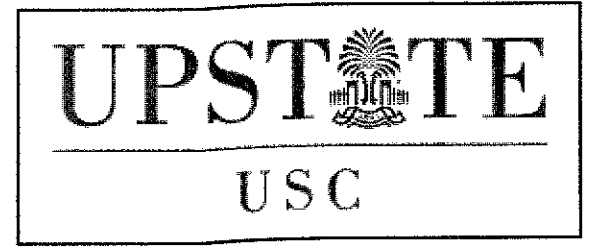
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Project



Softball Field Repairs and Upgrades

State Project Number H34-I350  
Project Number 11124  
Drawn By CLW  
Checked By TLD  
Date 12 Jan 2012

Revisions

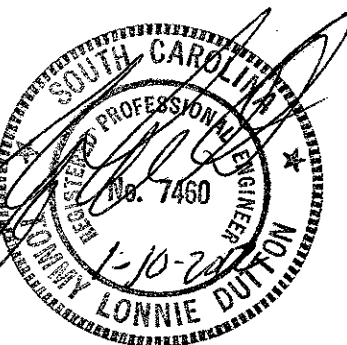
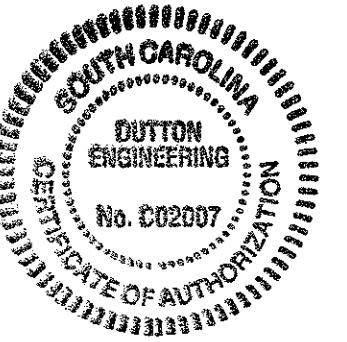
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Sediment and Erosion Control Details and Notes

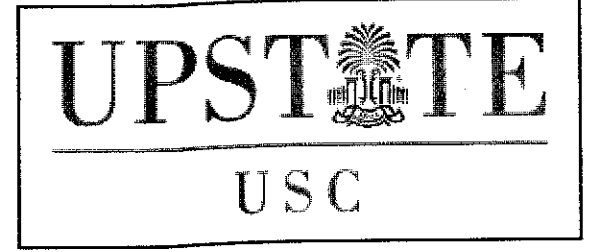
C5.0



Seal



Project



**Softball Field Repairs and Upgrades**

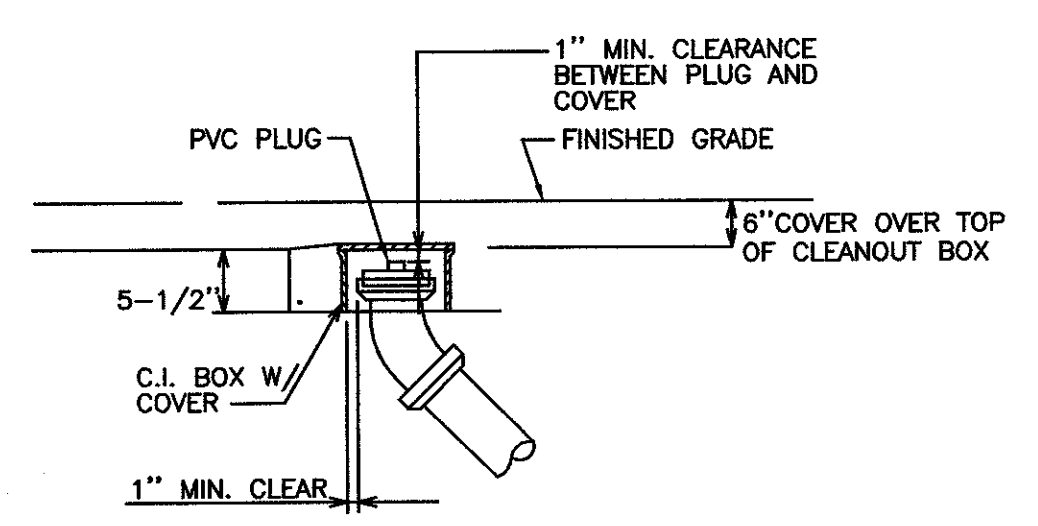
State Project Number H34-1350  
Project Number 11124  
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Date 12 Jan 2012

Revisions

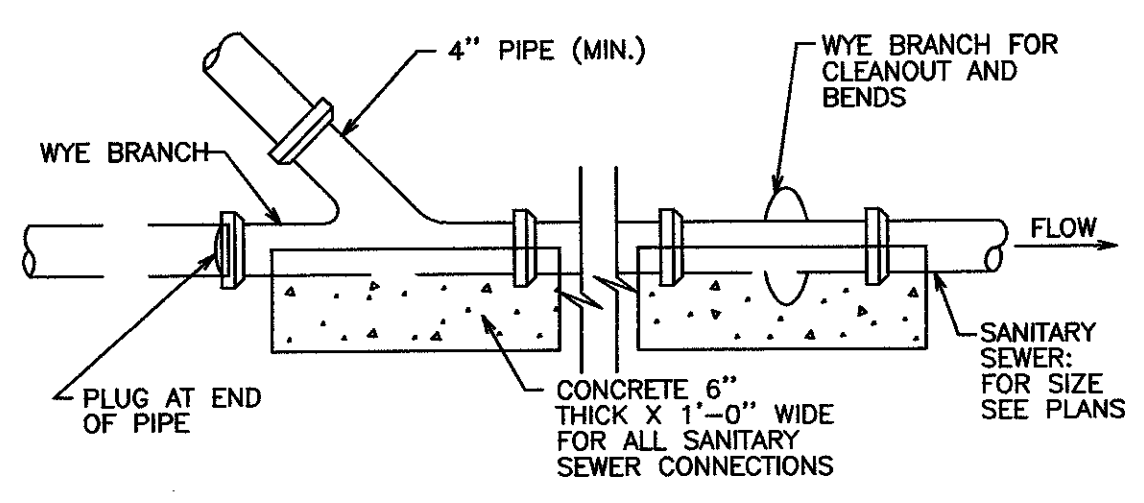
Drawing

Miscellaneous Details

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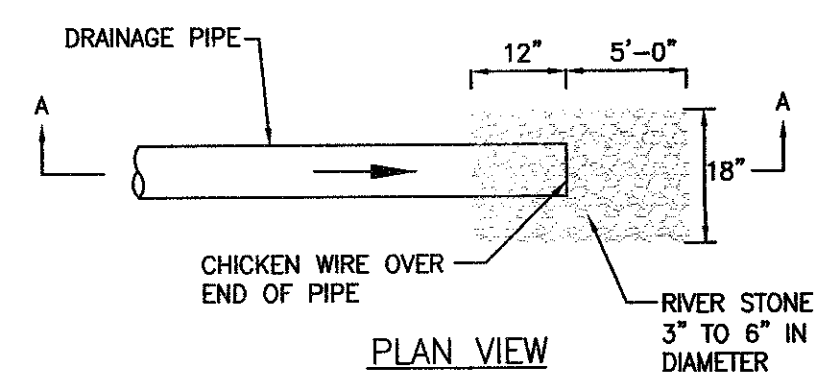
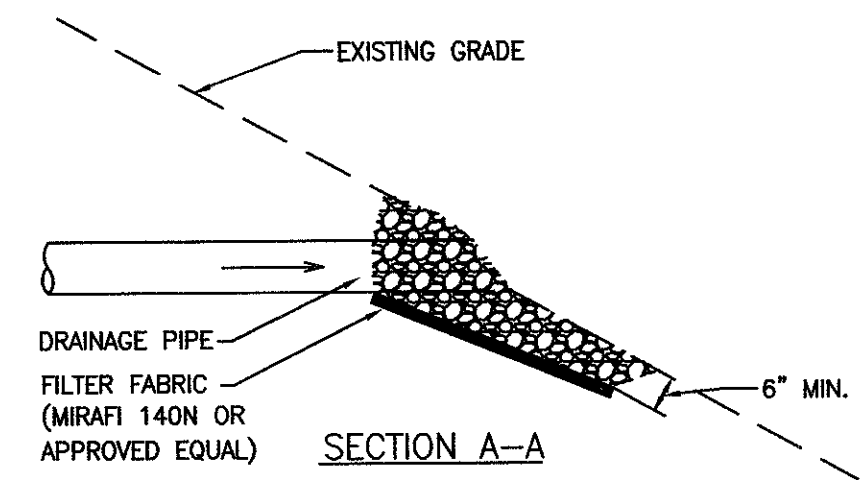


**1**  
CLEANOUT DETAIL  
NOT TO SCALE  
C6.0



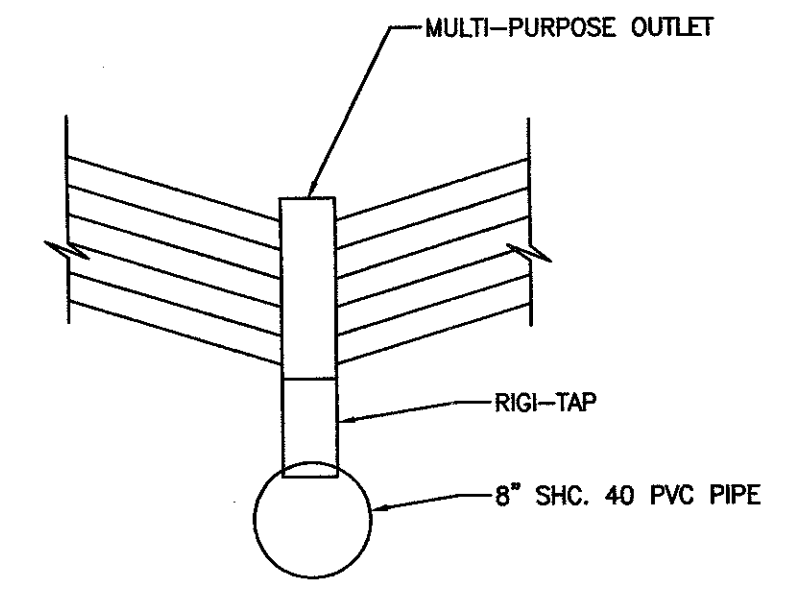
**2**  
TYPICAL TRENCH BEDDING FOR SCH. 40 PLASTIC PIPE (SANITARY SEWER)  
NOT TO SCALE  
C6.0

**NOTE:**  
1. CONTRACTOR TO USE TRENCH BOX FOR DEPTHS EXCEEDING 4'.  
2. CONTRACTOR TO INSTALL 6" OF GLASSCOCK INFIELD MIX ONLY FOR THE TOP 6" OF FIELD WITHIN THE INFIELD AREA.

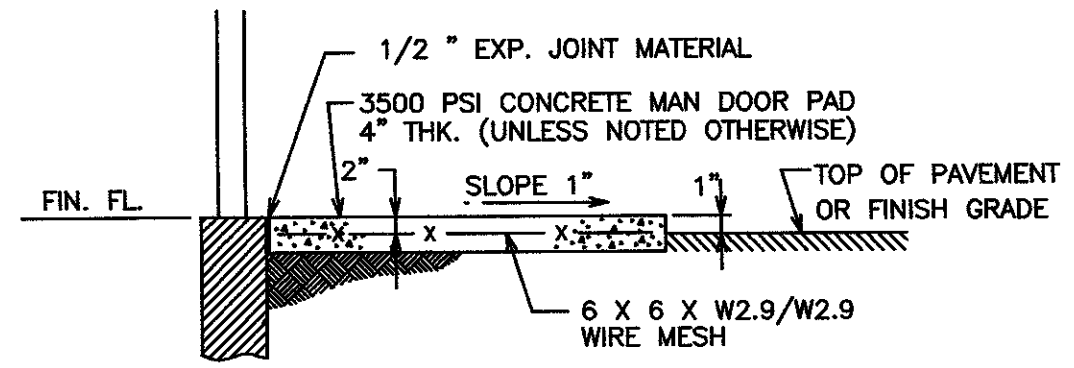


**4**  
DRAINAGE DISCHARGE PIPE  
NOT TO SCALE  
C6.0

**NOTE:**  
END OF PIPE TO BE WRAPPED WITH CHICKEN WIRE. CHICKEN WIRE TO EXTEND BACK ONE FOOT, WRAP AROUND PIPE, AND BE TIED WITH WIRE.



**7**  
SECTION  
NOT TO SCALE  
C6.0

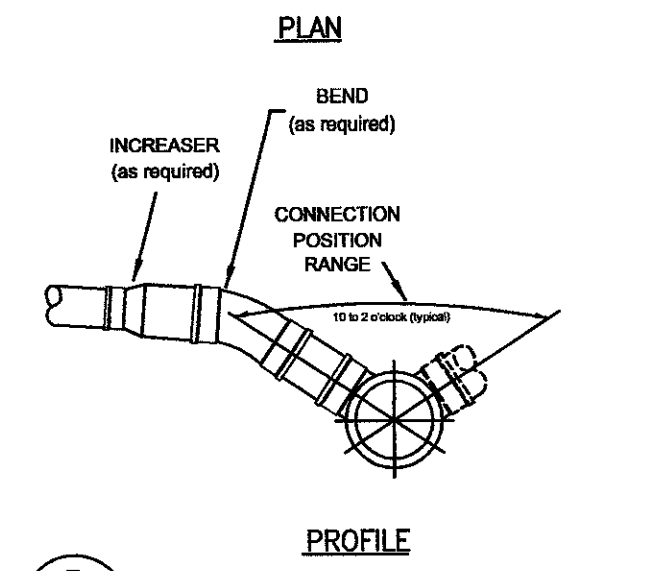
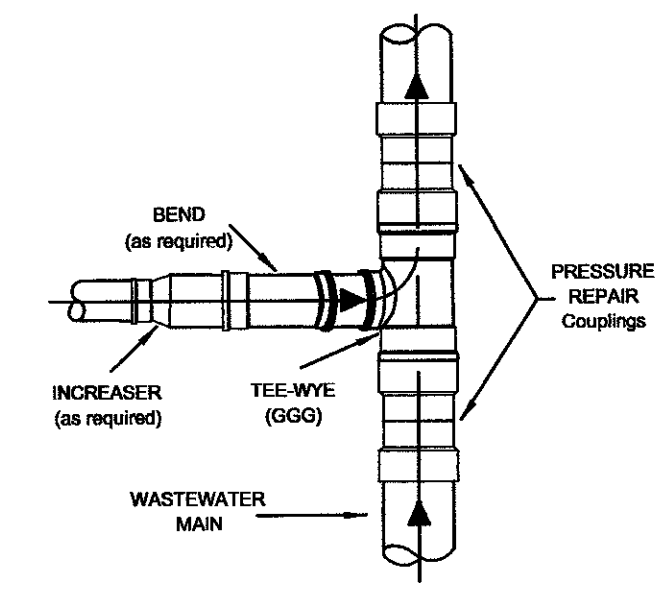


**8**  
CONCRETE MAN DOOR PAD  
NOT TO SCALE  
C6.0

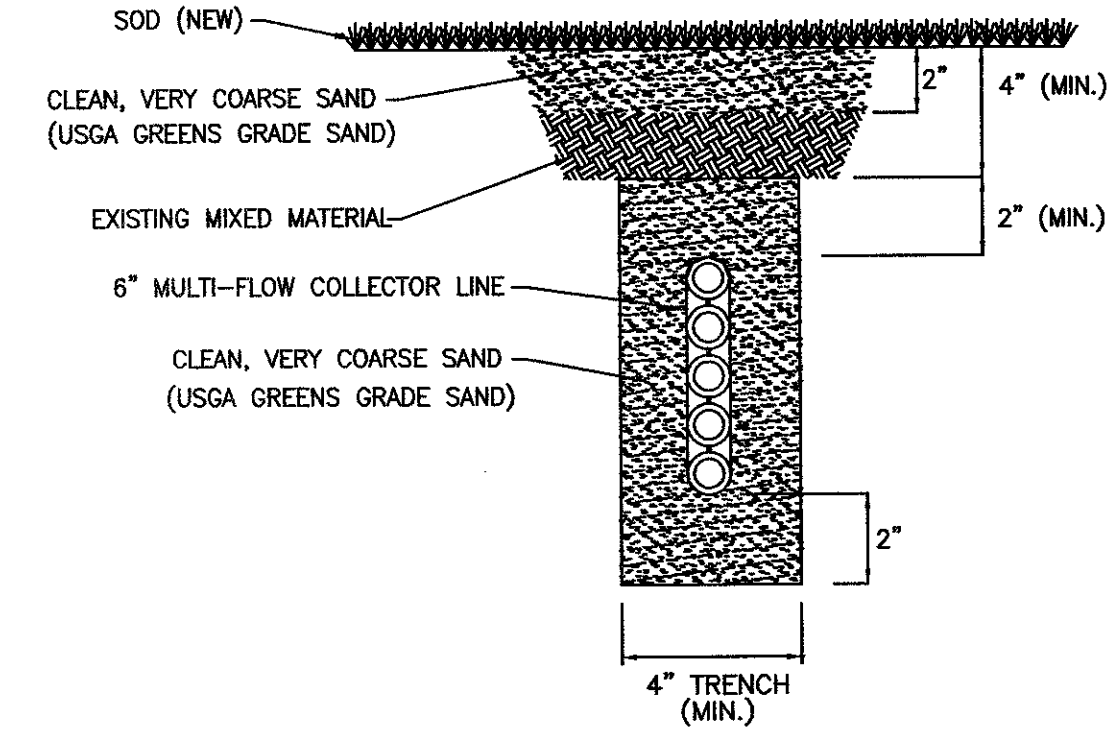
**NOTE:**  
1. CONTRACTOR TO EXTEND CONCRETE PAD ONE FOOT BEYOND EACH SIDE OF THE DOORS AND ONE FOOT IN FRONT OF THE DOOR'S OPENING.

**SPECIFICATIONS**

- Service connection details are based on Schedule 40 PVC pipe and fittings. Connections to wastewater mains of other material shall be made with approved mechanical connections.
- Service connection taps shall be made with one (1) Harco TEE-WYE (GGG) fitting and two (2) Harco Pressure Repair couplings, or approved equals. The long branch of the TEE-WYE shall have the same inside diameter as the wastewater main.
- The connection branch of the TEE-WYE shall be a minimum of 6" and less than the diameter of the wastewater main. The TEE-WYE shall be set between the 10 and 2 o'clock positions, as required, along pipe circumference. Service lateral diameter may be reduced after the TEE-WYE fitting, as desired.
- The minimum pipe diameter of service lateral is 4". The minimum slope of the service lateral is 1.0% or 1/8" per foot per IBC.
- Backfill trench per Detail #2/C6.0

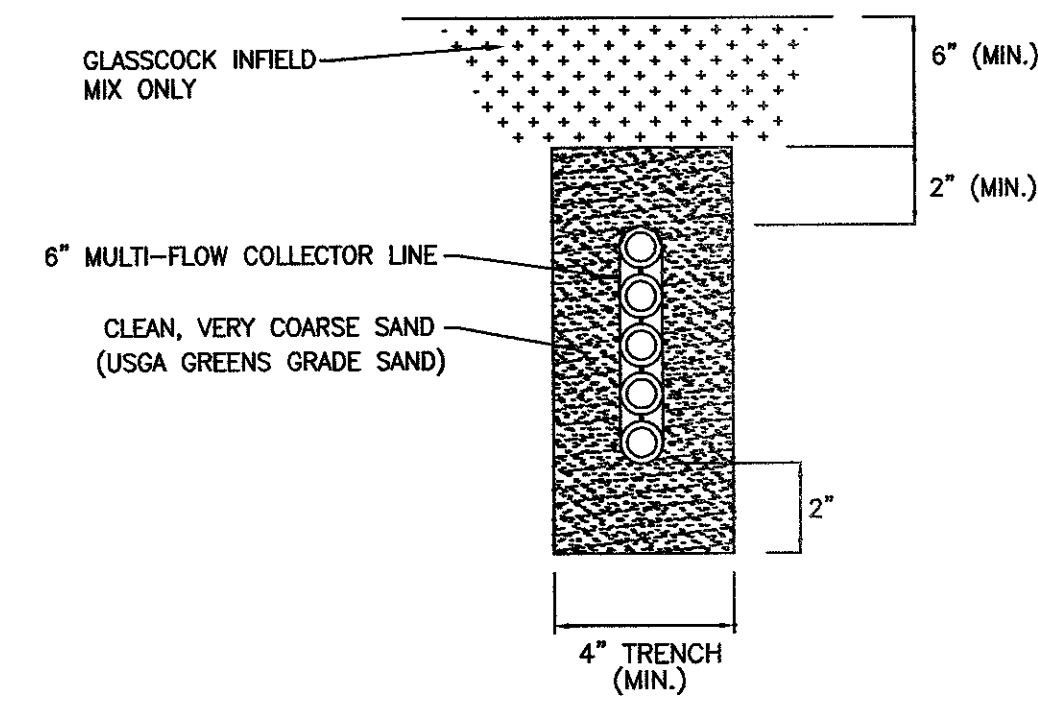


**3**  
SANITARY SEWER TAPPING DETAIL  
NOT TO SCALE  
C6.0



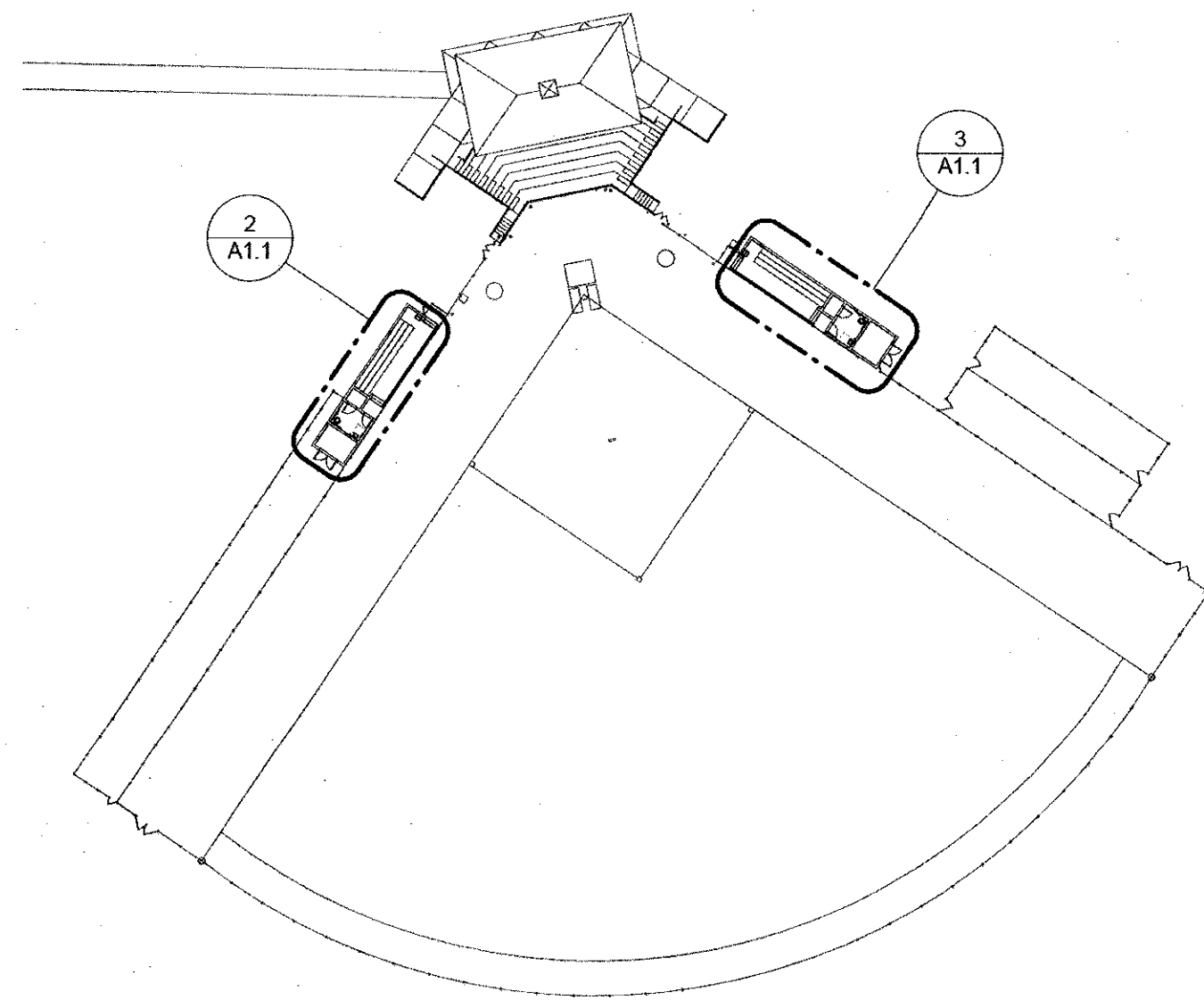
**5**  
6" MULTI-FLOW SECTION (OUTFIELD)  
NOT TO SCALE  
C6.0

**NOTE:**  
INSTALL MULTI-FLOW IN THE CENTER OF THE TRENCH. BACKFILL MATERIAL SHOULD BE A VERY COARSE SAND. MIN. RECOMMENDED SLOPE 1%.



**6**  
6" MULTI-FLOW SECTION (INFIELD & WARNING TRACK)  
NOT TO SCALE  
C6.0

**NOTE:**  
INSTALL MULTI-FLOW IN THE CENTER OF THE TRENCH. BACKFILL MATERIAL SHOULD BE A VERY COARSE SAND. MIN. RECOMMENDED SLOPE 1%.



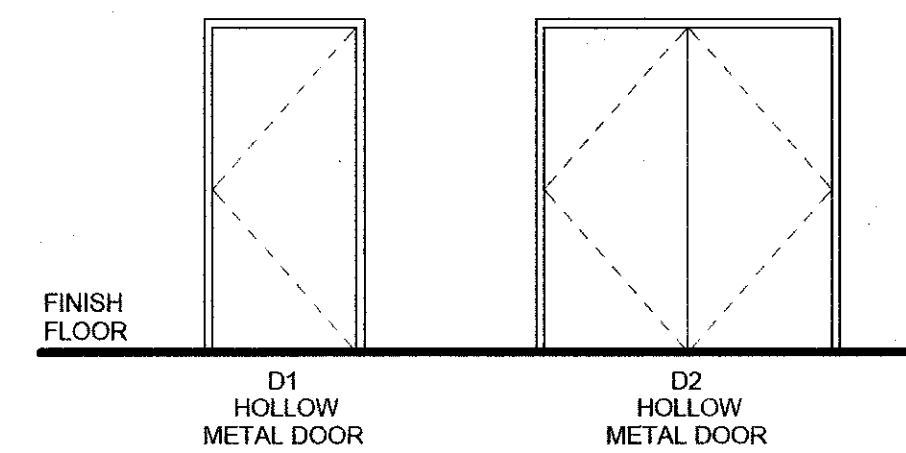
1 KEY PLAN  
A1.1 1" = 50'-0"

MARK	FRAME			SIZE		DOOR		FIRE RATING	HARDWARE SET	COMMENTS
	WIDTH	HEIGHT	MATERIAL	WIDTH	HEIGHT	TYPE	MATERIAL			
101	6'-4"	6'-10"	HM	6'-0"	6'-8"	2	HM	--	1	
102	3'-4"	6'-10"	HM	3'-0"	6'-8"	1	HM	--	3	
103	3'-4"	6'-10"	HM	3'-0"	6'-8"	1	HM	--	2	
104	6'-4"	6'-10"	HM	6'-0"	6'-8"	2	HM	--	1	EXISTING DOOR TO BE REUSED
105	3'-4"	6'-10"	HM	3'-0"	6'-8"	1	HM	--	3	
106	3'-4"	6'-10"	HM	3'-0"	6'-8"	1	HM	--	2	

HARDWARE SCHEDULE

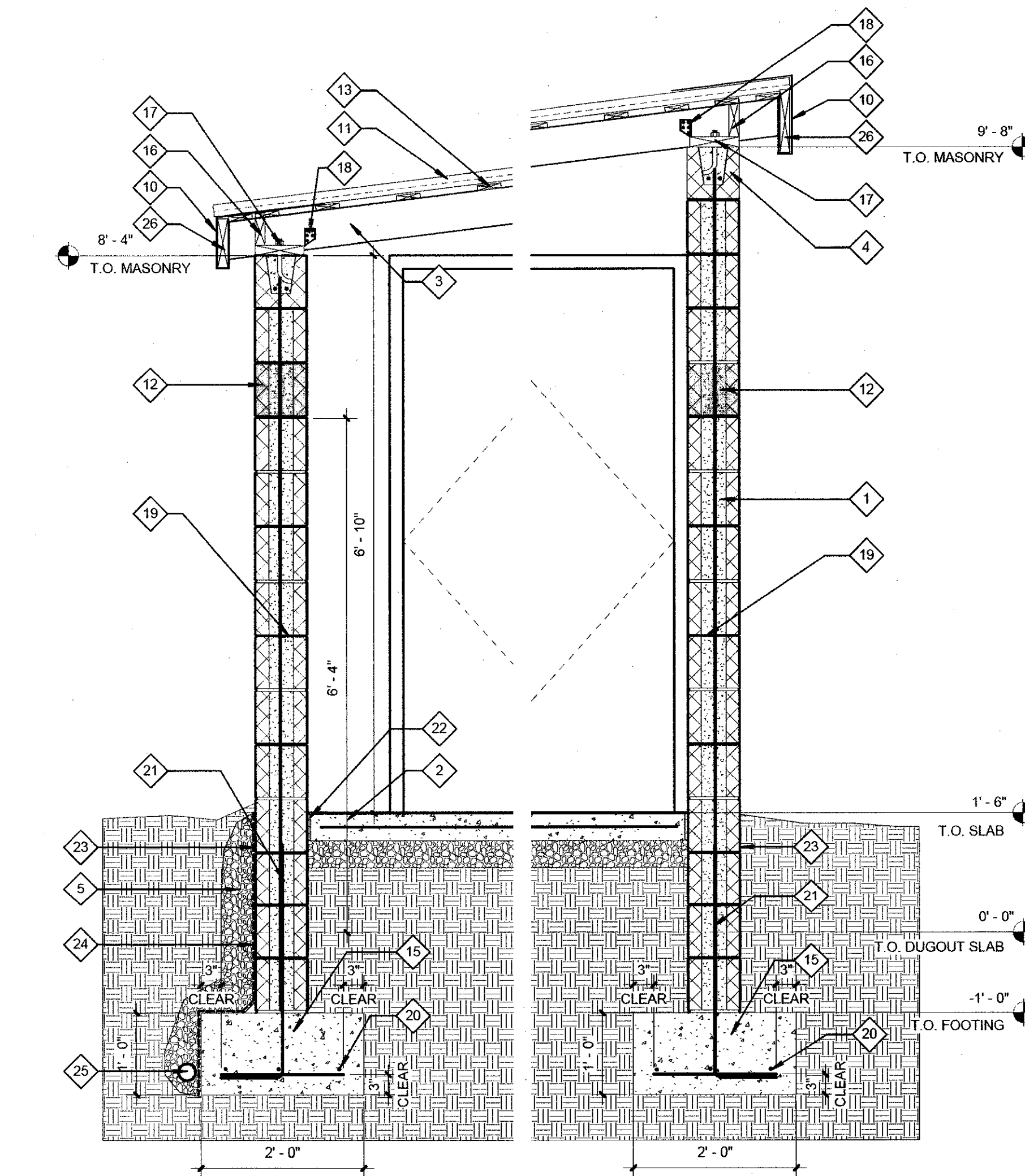
HARDWARE SET 1 - DOUBLE DOOR			HARDWARE SET 2 - RESTROOM DOOR			HARDWARE SET 3 - STORAGE ROOM DOOR		
6 EA.	BALL BEARING BUTTS		3 EA.	BALL BEARING BUTTS		3 EA.	BALL BEARING BUTTS	
1 EA.	"STOREROOM FUNCTION" LOCKSET		1 EA.	"PRIVACY FUNCTION" LOCKSET		1 EA.	"STOREROOM FUNCTION" LOCKSET	
1 EA.	WALL STOP		1 EA.	WALL STOP		1 EA.	WALL STOP	
3 EA.	SILENCERS		3 EA.	SILENCERS		3 EA.	SILENCERS	
1 EA.	CLOSER		1 EA.	CLOSER		1 EA.	CLOSER	
1 EA.	WEATHERSTRIPPING		1 EA.	WEATHERSTRIPPING		1 EA.	WEATHERSTRIPPING	
1 EA.	THRESHOLD		1 EA.	THRESHOLD		1 EA.	THRESHOLD	

DOOR TYPE LEGEND



TAG	ITEM NAME	MODEL NUMBER	COMMENTS
TA-1	36" REAR GRAB BAR	B-6806 99X36	
TA-2	42" SIDE GRAB BAR	B-6806 99X42	
TA-3	18" VERTICAL GRAB BAR	B-6806 99X18	
TA-4	TOILET PAPER DISPENSER	O.F.I.C.	O.F.I.C. - SURFACE MOUNTED
TA-5	SANITARY NAPKIN DISPOSAL	B-254	
TA-6	PAPER TOWEL DISPENSER/TRASH COMBO	O.F.I.C.	O.F.I.C. - SURFACE MOUNTED
TA-7	SOAP DISPENSER	O.F.I.C.	O.F.I.C. - SURFACE MOUNTED
TA-8	24" X 36" MIRROR	B-165 2436	
TA-9	SIGNAGE	O.F.I.C.	O.F.I.C.

NOTES:  
BASIS OF DESIGN: BOBRICK WASHROOM EQUIPMENT, INC.  
O.F.I.C. - OWNER FURNISHED INSTALLED BY CONTRACTOR

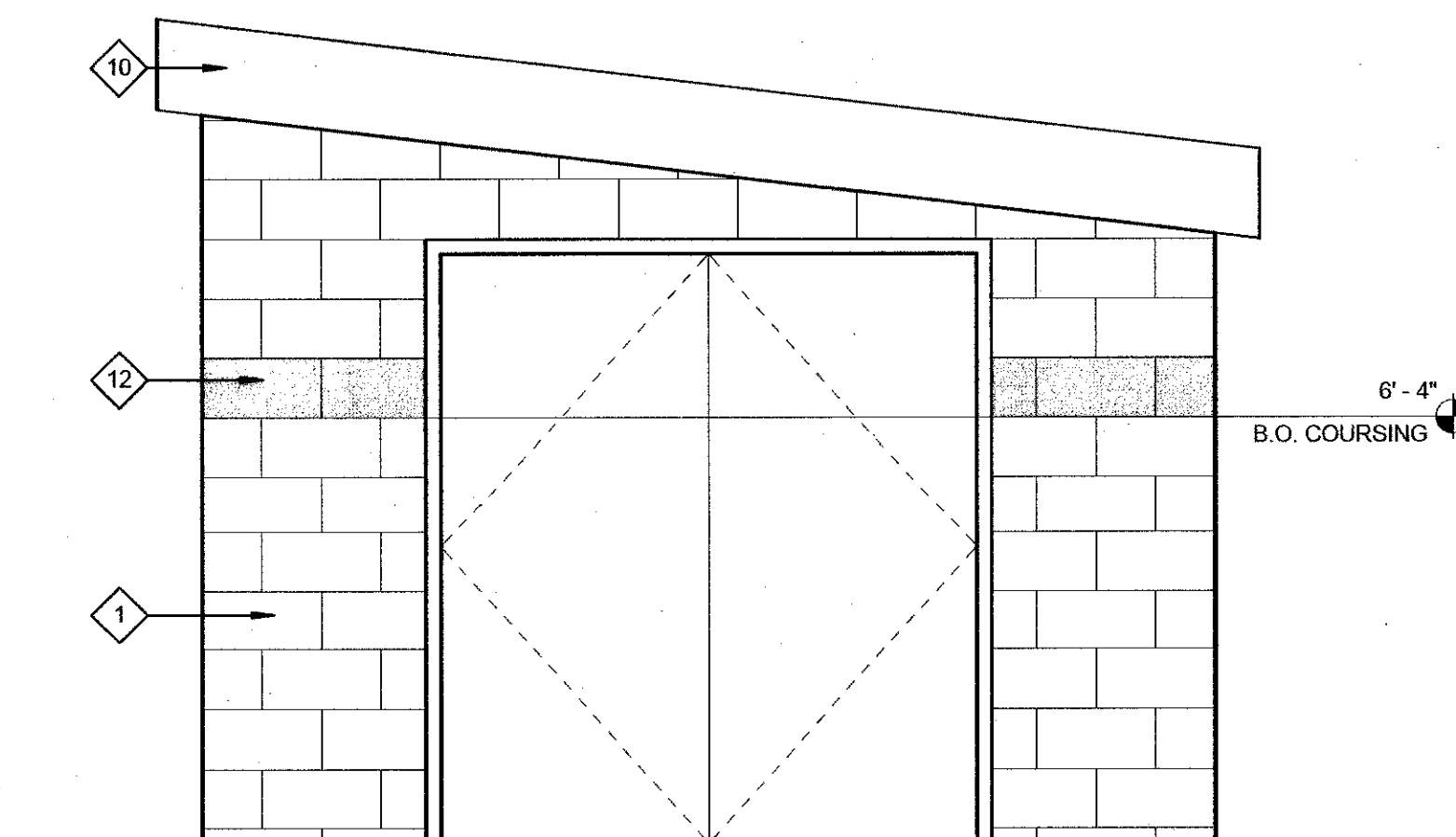
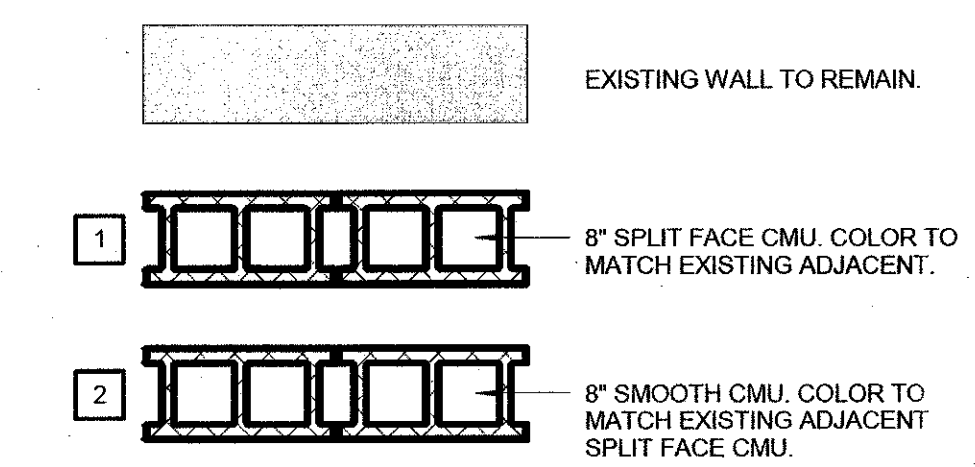


4 DUGOUT SECTION  
A1.1 3/4" = 1'-0"

A1.1 DRAWING NOTES

- 8" SPLIT FACE CMU WITH #5 AT 48" O.C. COLOR TO MATCH EXISTING.
- 4" CONCRETE SLAB WITH #6X6 - W1.4X1.4 WWR ON A 6 MIL VAPOR BARRIER OVER 4" GRAVEL BASE.
- TREATED 2X6 AT 16" O.C.
- BOND BEAM WITH 2 #5 CONT. FILL WITH RMG.
- CLEAN CRUSHED STONE.
- 12" DEEP ADJUSTABLE METAL SHELVING. 5 SHELVES HIGH.
- EXISTING DOUBLE DOORS TO BE REUSED.
- NEW DOUBLE DOORS TO MATCH EXISTING ON HOME DUGOUT.
- EXISTING 8" X 16" METAL VENT ABOVE.
- BREAK METAL FASCIA. COLOR TO MATCH EXISTING.
- R-PANEL METAL ROOFING TO MATCH EXISTING. COLOR TO MATCH EXISTING ADJACENT.
- 8" SPLIT FACE CMU IN ACCENT COLOR TO MATCH EXISTING ADJACENT. HEIGHT OF ACCENT SPLIT FACE CMU TO MATCH EXISTING.
- PRESSURED TREATED 1X4.
- EXISTING DOORS TO BE REMOVED AND SALVAGED FOR REUSE. INFILL OPENING IN WALL TO MATCH EXISTING CONSTRUCTION.
- CONCRETE FOOTING.
- 2X PRESSURED TREATED WOOD BLOCKING.
- PRESSURE TREATED 2X8 CONTINUOUS WITH 5/8" ANCHOR BOLT AT 24" O.C.
- SIMPSON #3. TYPICAL.
- STANDARD GAUGE DUR-O-WALL AT 16" O.C. WITH 3 AT 8" SPACES AT BOTTOM AND TOP OF WALL. TYPICAL.
- 3 #5 CONTINUOUS.
- DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.
- 1/2" EXPANSION MATERIAL.
- ELASTOMERIC MEMBRANE.
- DRAINAGE MAT.
- 4" PERFORATED PIPE CONNECTED TO EXISTING STORM DRAIN SYSTEM. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- PRESSURE TREATED 2X FASCIA. SIZE TO MATCH EXISTING.

WALL TYPE LEGEND

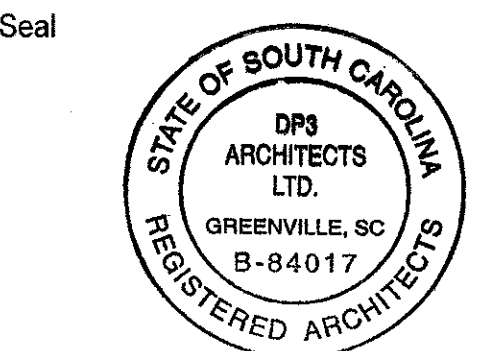


5 TYPICAL COURSING  
A1.1 1/2" = 1'-0"

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2 SOFTBALL AWAY DUGOUT  
A1.1 1/4" = 1'-0"

3 SOFTBALL HOME DUGOUT  
A1.1 1/4" = 1'-0"



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Project



Softball Field Repairs and Upgrades

State Project Number H34-1350  
Project Number 11124  
Drawn By ALC  
Checked By MLT  
Date 12 Jan 2012

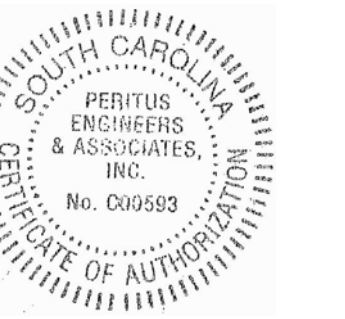
Revisions

Drawing

Floor Plans and Details

A1.1

Seal



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Project



Softball Field Repairs  
and Upgrades

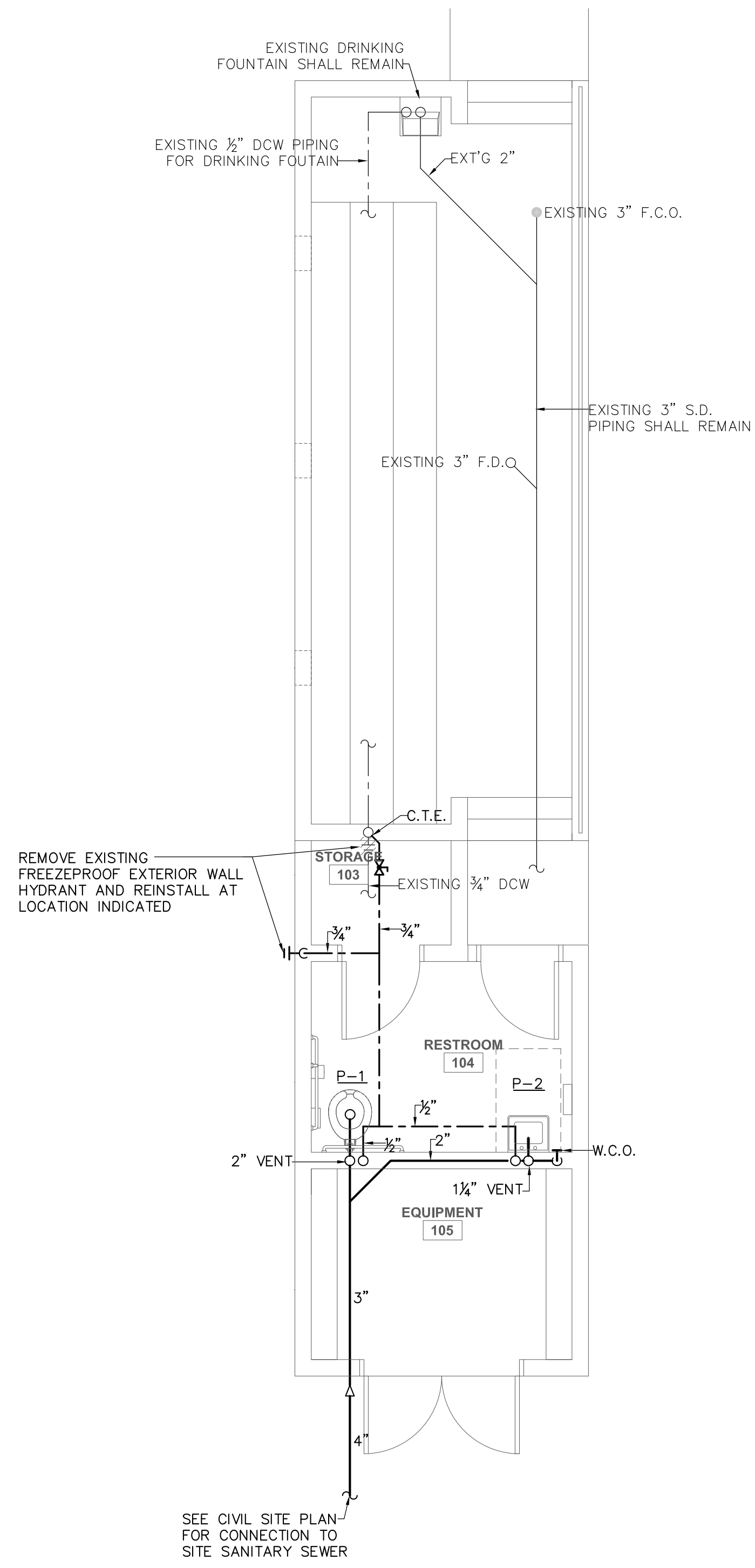
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Project Number -  
Drawn By LDF  
Checked By JCP  
Date 12 Jan 2012

Revisions

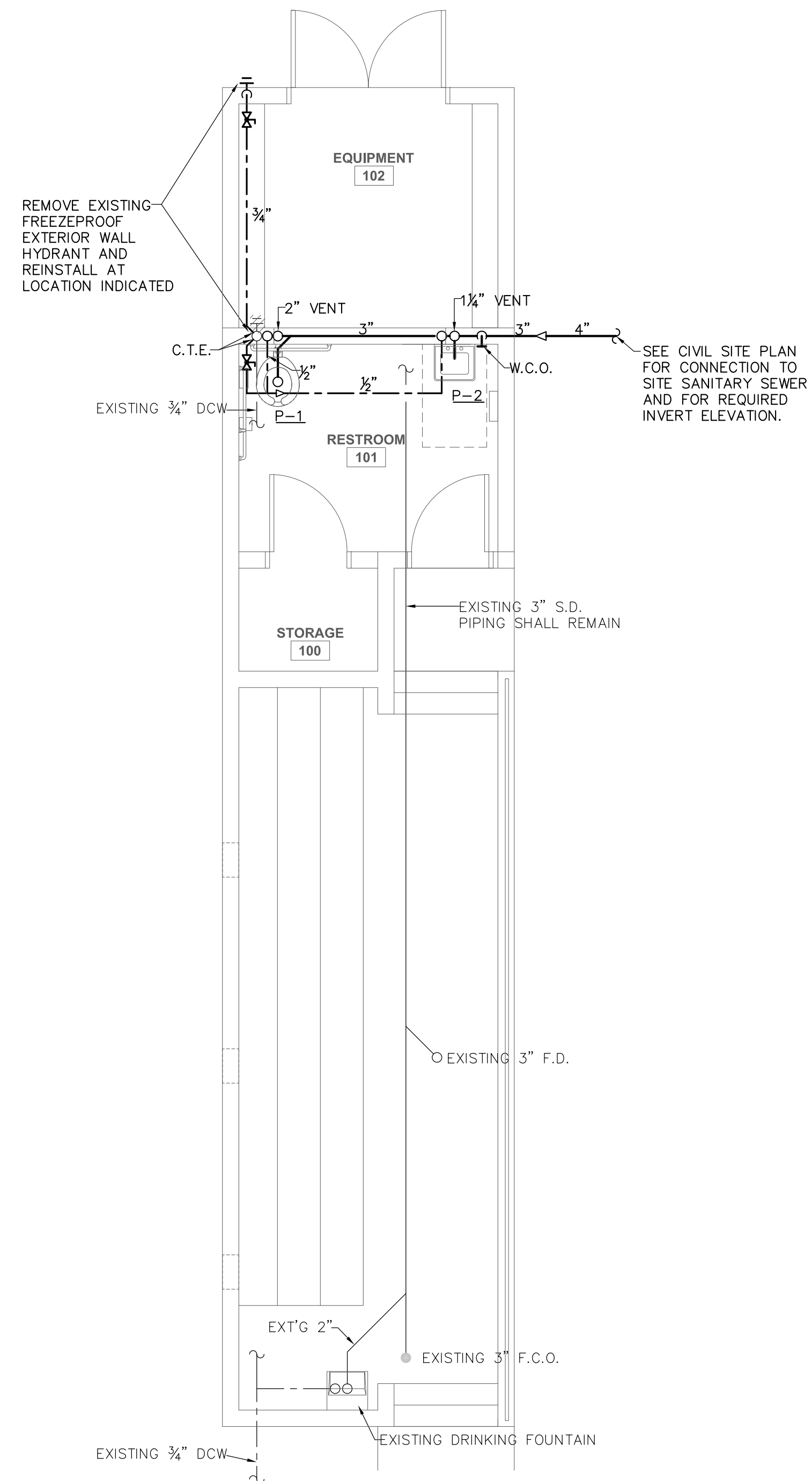
Drawing

Softball Dugouts  
Plumbing Plans and  
Schedules

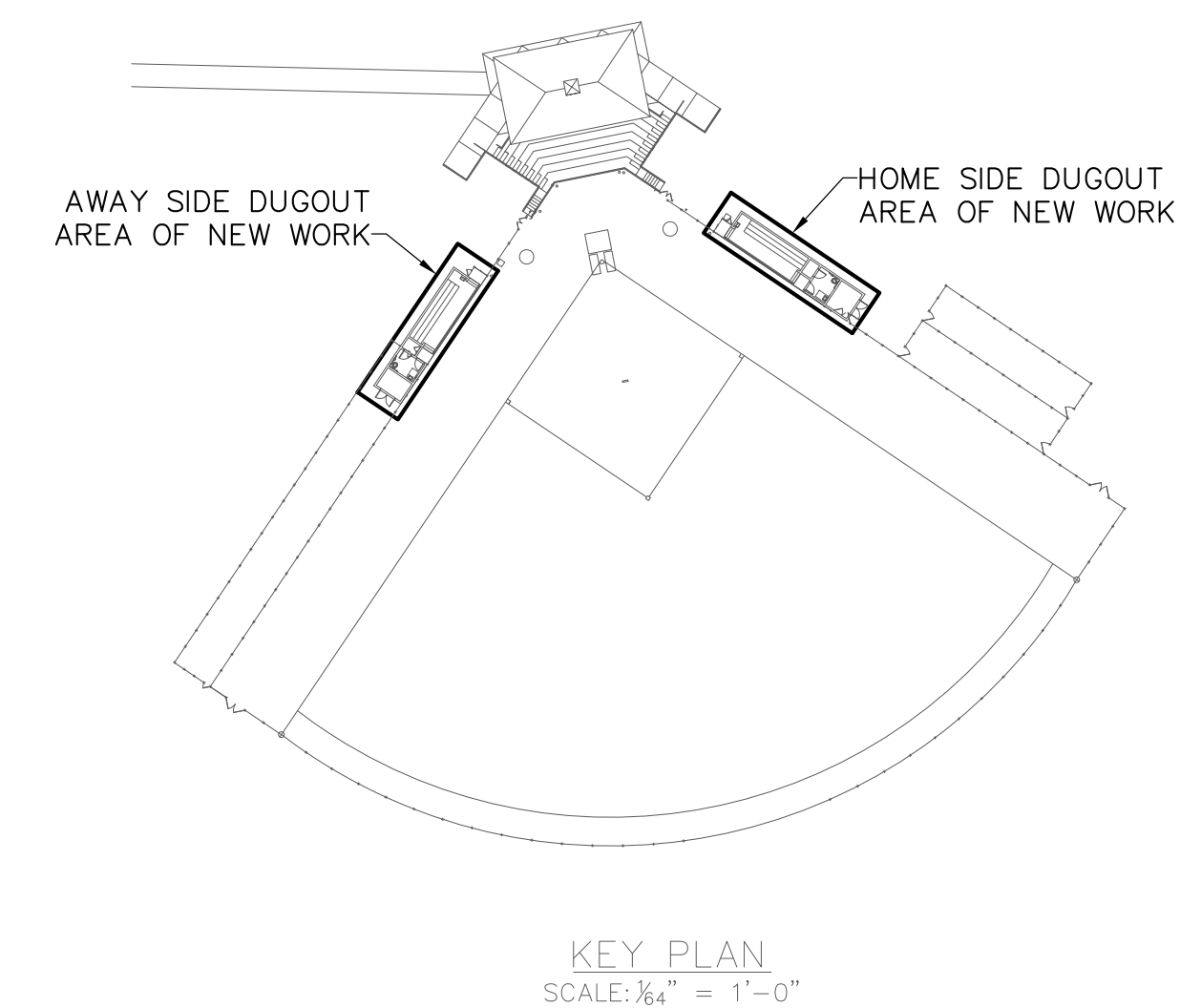
# P1.1



PLUMBING PLAN SOFTBALL AWAY DUGOUT  
SCALE: 1/4" = 1'-0"



PLUMBING PLAN SOFTBALL HOME DUGOUT  
SCALE: 1/4" = 1'-0"



KEY PLAN  
SCALE: 1/4" = 1'-0"

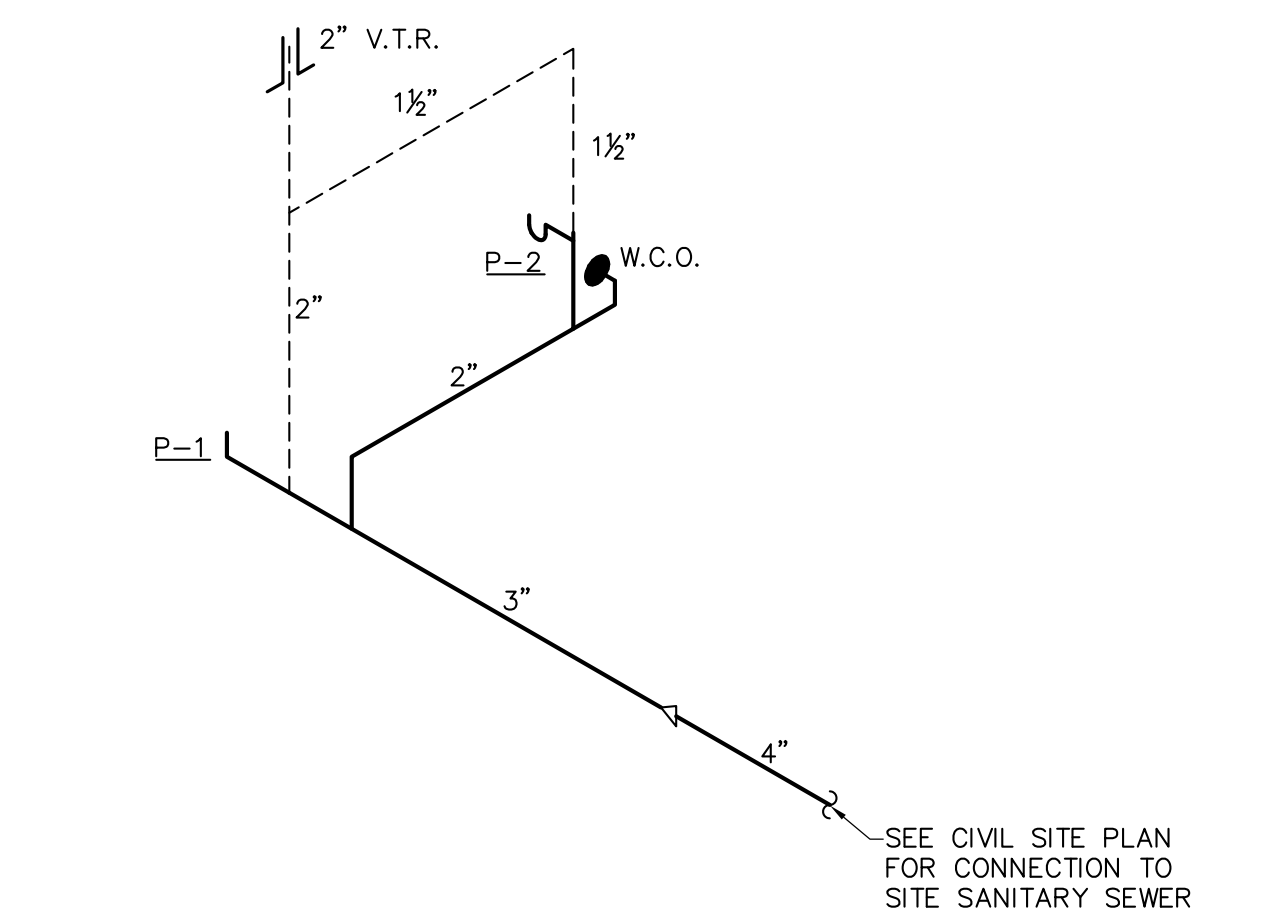
PLUMBING FIXTURE SCHEDULE					
ITEM	FIXTURE	COLD WATER	HOT WATER	WASTE	REMARKS
P-1	WATER CLOSET (TANK TYPE)	½"	—	3"	MEETS A.D.A.
P-2	WALL HUNG LAVATORY	½"	—	1¼"	MEETS A.D.A.

PLUMBING LEGEND	
ITEM	DESCRIPTION
C.O.	CLEAN OUT
C.W.	COLD WATER
F.D.	FLOOR DRAIN
H.B.	HOSE BIBB
H.D.	HUB DRAIN
H.W.	HOT WATER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
R.D.	ROOF DRAIN
S.D.	STORM DRAIN
S.S.	SANITARY SEWER
W.H.	WALL HYDRANT (OUTSIDE-FREEZE PROOF)
E.W.C.	ELECTRIC WATER COOLER
F.C.O.	FLOOR CLEAN OUT
P.D.I.	PLUMBING DRAINAGE INSTITUTE
V.T.R.	VENT THRU ROOF
W.C.O.	WALL CLEAN OUT
Y.C.O.	YARD CLEAN OUT
C.T.E.	CONNECT TO EXISTING
-----	DOMESTIC COLD WATER PIPING
-----	DOMESTIC HOT WATER PIPING (110°F)
-----	DOMESTIC HOT WATER RETURN PIPING (110°F)
-----	SANITARY SEWER OR WASTE PIPING
-----	PROCESS WASTE PIPING
-----	VENT PIPING (SANITARY SEWER)
-----	VENT PIPING (PROCESS WASTE)
⊘	BALL VALVE
⊘	CHECK VALVE
⊘	CIRCUIT BALANCER
⊘	CLEAN OUT
⊘	FLOOR CLEAN OUT (SANITARY SEWER)
⊘	FLOOR OR HUB DRAIN (SANITARY SEWER)
⊘	GATE VALVE
⊘	HOSE BIBB OR WALL HYDRANT
⊘	PRESSURE REDUCING VALVE
⊘	STRAINER
⊘	UNION

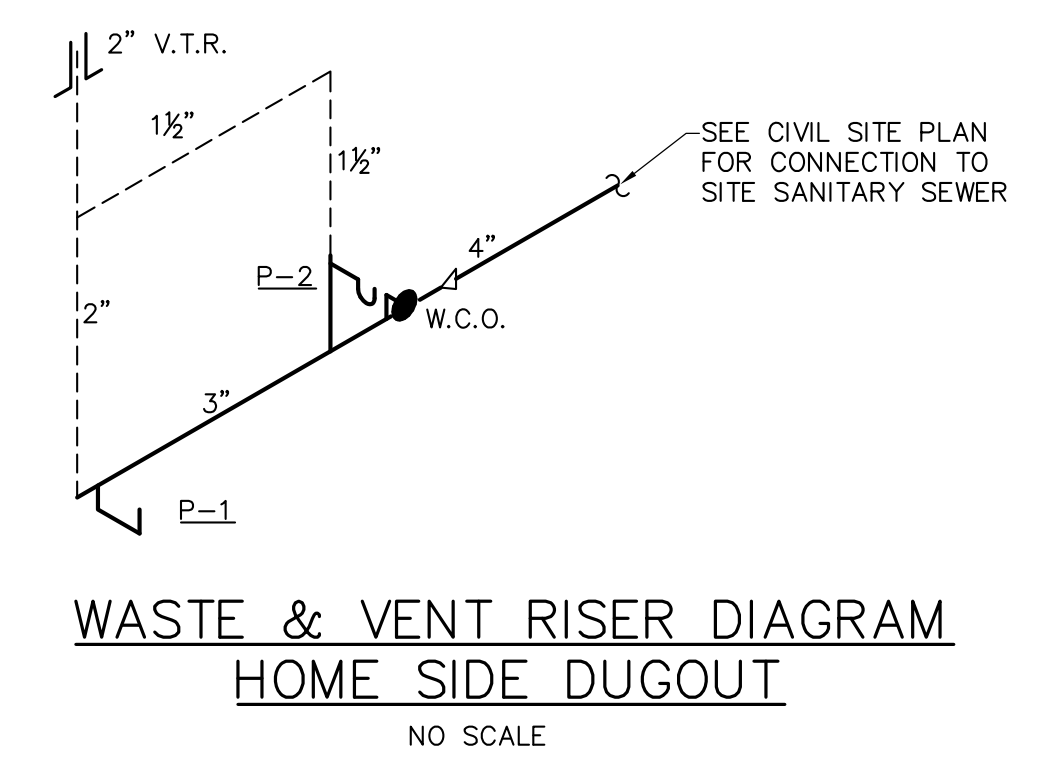
PLUMBING GENERAL NOTES	
1.	THE CONTRACTOR SHALL CO-ORDINATE INSTALLATION WITH OTHER TRADES.
2.	THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN.
3.	THE CONTRACTOR SHALL REFER TO SITE PLANS FOR ALL OUTSIDE WORK TO BE PERFORMED.
4.	ALL PLUMBING WORK SHALL CONFORM TO THE STANDARD PLUMBING CODE, OSHA REQUIREMENTS, AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
5.	THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WASTE & WATER PIPING BEFORE STARTING THE PROJECT.
6.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING EQUIPMENT, FLOOR DRAINS & MOUNTING HEIGHTS OF PLUMBING FIXTURES.
7.	PIPING SHOWN ON ALL RISER DIAGRAMS ARE DIAGRAMMATIC, CONTRACTOR IS RESPONSIBLE FOR ALL FITTINGS AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTALLATION.
8.	ALL PIPING ARRANGEMENTS & ROUTINGS AS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ALTERATIONS DIFFERENT FROM THAT SHOWN IN ORDER TO ACCOMMODATE STRUCTURAL/ARCHITECTURAL FEATURES. THE CONTRACTOR SHALL VERIFY AND MAKE ALTERATIONS OR REVISIONS AS REQUIRED.

DOMESTIC WATER INFO. SCHEDULE		
ITEM	REMARKS	
1.	EXISTING DOMESTIC WATER PRESSURE	FIELD VERIFY
2.	FIXTURE UNIT COUNT (DOMESTIC COLD WATER)	6.75
3.	FIXTURE UNIT COUNT (DOMESTIC HOT WATER x .5)	0
4.	TOTAL FIXTURE UNIT COUNT (LINE 2 + LINE 3)	6.75
5.	DOMESTIC WATER FLOW (G.P.M.)	11.5
6.	INCOMING DOMESTIC WATER PIPE SIZE	EXISTING 3/4"

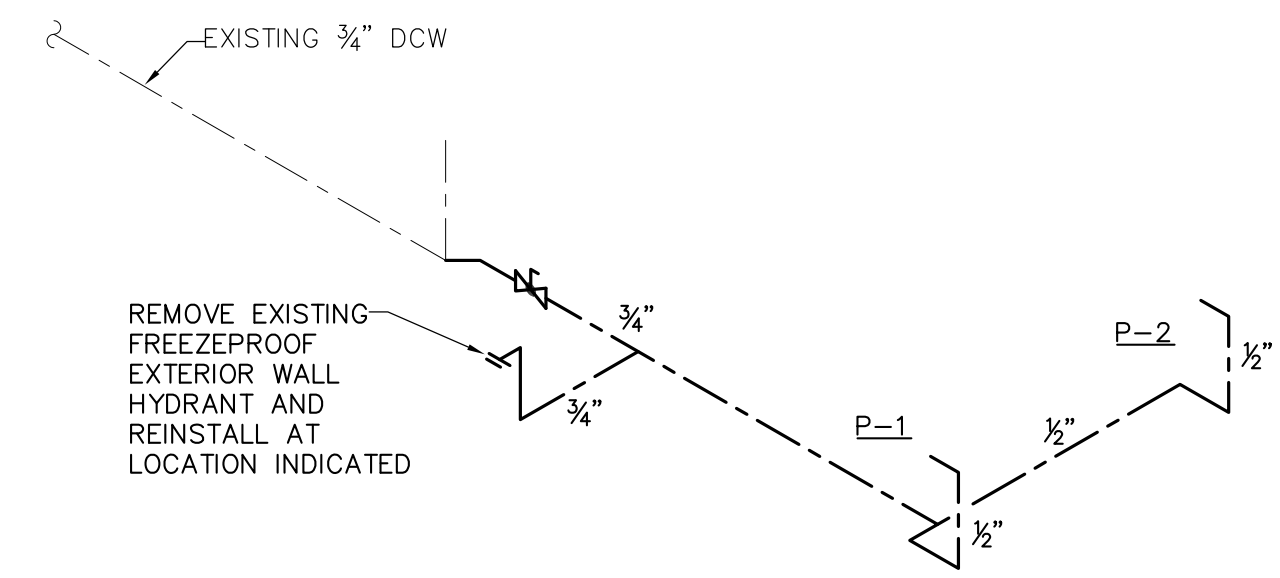
SANITARY SEWER INFO. SCHEDULE		
ITEM	FIXTURE UNITS	SIZE
1.	SANITARY SEWER LINE #1 (AWAY DUGOUT)	5 3"
1.	SANITARY SEWER LINE #2 (HOME DUGOUT)	5 3"



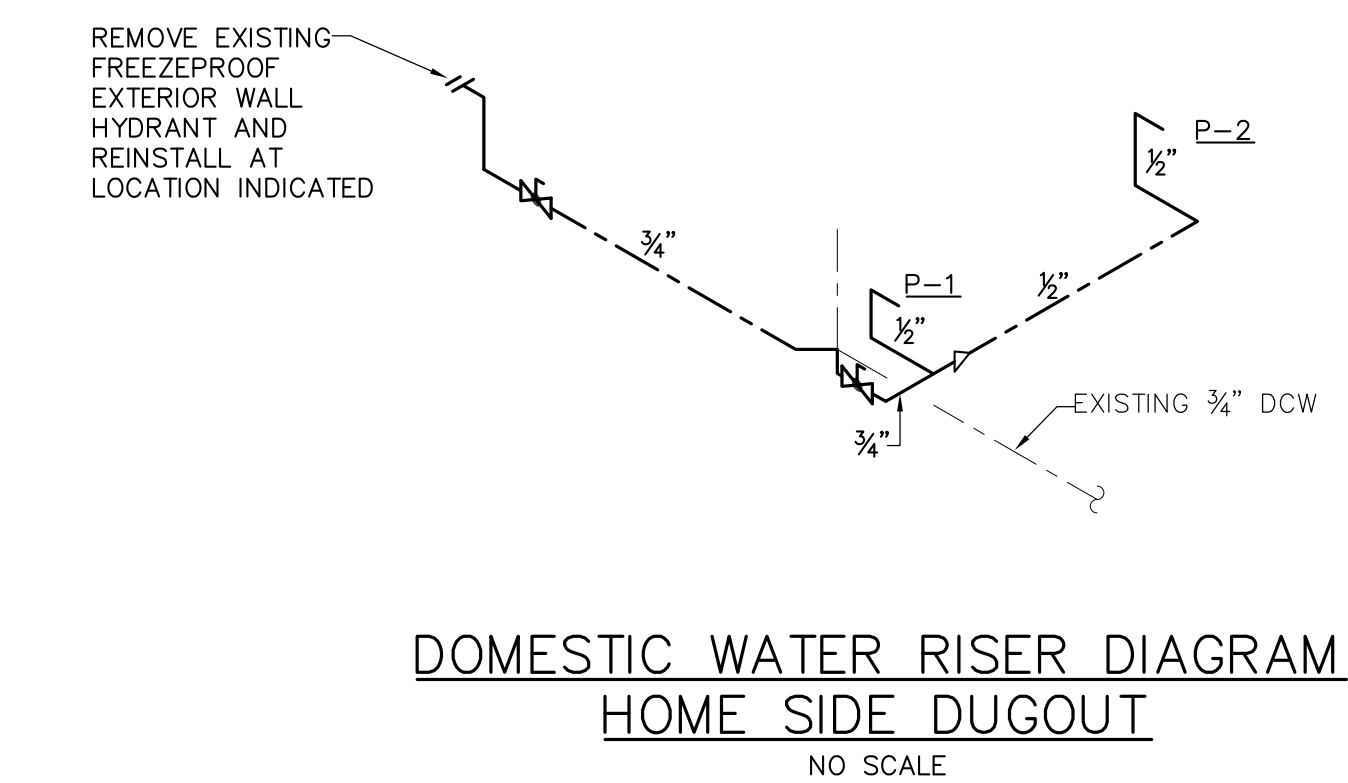
WASTE & VENT RISER DIAGRAM  
AWAY SIDE DUGOUT  
NO SCALE



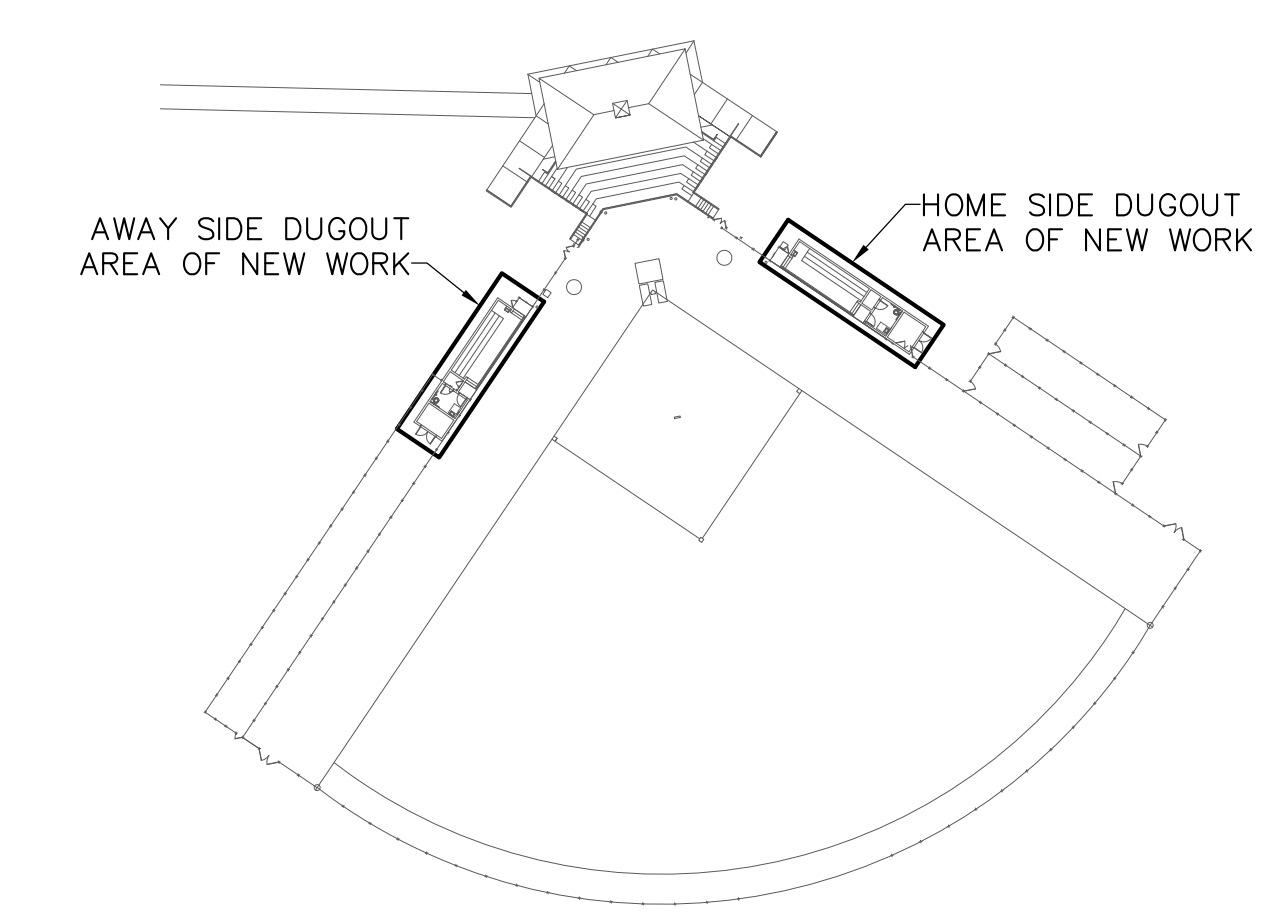
WASTE & VENT RISER DIAGRAM  
HOME SIDE DUGOUT  
NO SCALE



DOMESTIC WATER RISER DIAGRAM  
AWAY SIDE DUGOUT  
NO SCALE



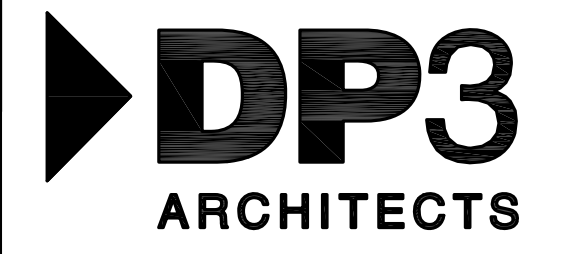
DOMESTIC WATER RISER DIAGRAM  
HOME SIDE DUGOUT  
NO SCALE



KEY PLAN  
SCALE: 1/8" = 1'-0"

**Peritus**  
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Project



Softball Field Repairs  
and Upgrades

State Project Number H34-I350  
Project Number -  
Drawn By LDF  
Checked By JCP  
Date 12 Jan 2012

Revisions

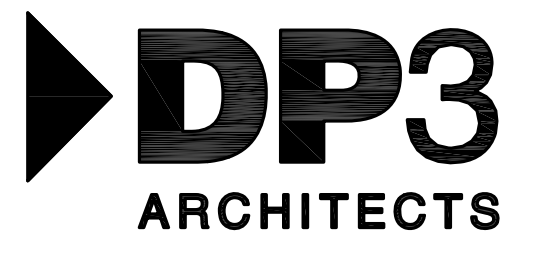
Drawing

Plumbing Riser Diagrams,  
Schedules and Details

P1.2

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Project



Softball Field Repairs  
and Upgrades

State Project Number H34-1350  
Project Number -  
Drawn By LDF  
Checked By JCP  
Date 12 Jan 2012

Revisions

Drawing

Softball Dugouts HVAC  
Plans and Schedules

# M1.1

BASEBOARD HEATER SCHEDULE						
UNIT NO.	REDD-I MODEL NO.	LENGTH	INPUT WATTS	VOLTAGE	QUANTITY	REMARKS
BH-1	E29D-048C	48"	1000	120/1/60	2	1-4

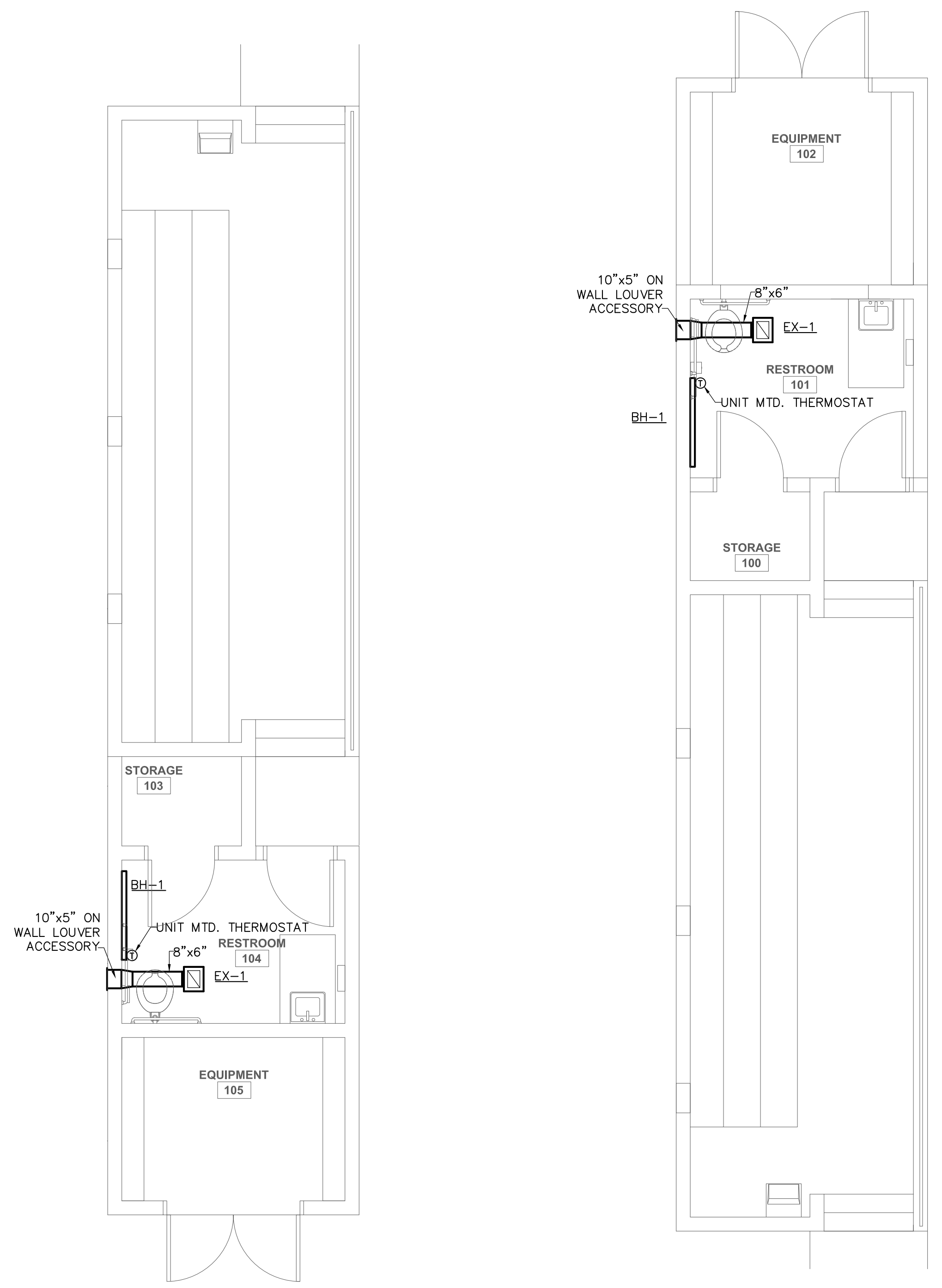
- NOTES:
1. PROVIDE WITH END CAPS, UNIT MOUNTED THERMOSTAT, AND THERMAL OVERLOADS EXTENDED OVER ENTIRE HEATER LENGTH.
  2. PROVIDE FACTORY ENDLET AND OUTLET WIRE GUARDS.
  3. STAINLESS STEEL HEATING ELEMENT AND ALUMINUM FINS.
  4. POWDER COATED 22 GAUGE STEEL FRONT WITH 20 GAUGE JUNCTION BOXES ON HEATER ENDS.

EXHAUST FAN SCHEDULE									
UNIT No.	GREENHECK MODEL NO.	TYPE DRIVE	C.F.M.	R.P.M.	S.P. INCHES	WATTS	ELECTRICAL	QUANTITY	REMARKS
EX-1	SP-A125	DIRECT	104	1100	0.25	53	120/1/60	2	1, 2

- NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER, HANGING VIBRATION ISOLATOR KIT, BOTTOM DECORATIVE INLET GRILLE, DISCONNECT, AND MODEL "WL-10x3" DISCHARGE LOUVER.
  2. INTERLOCK WITH LIGHT SWITCH.

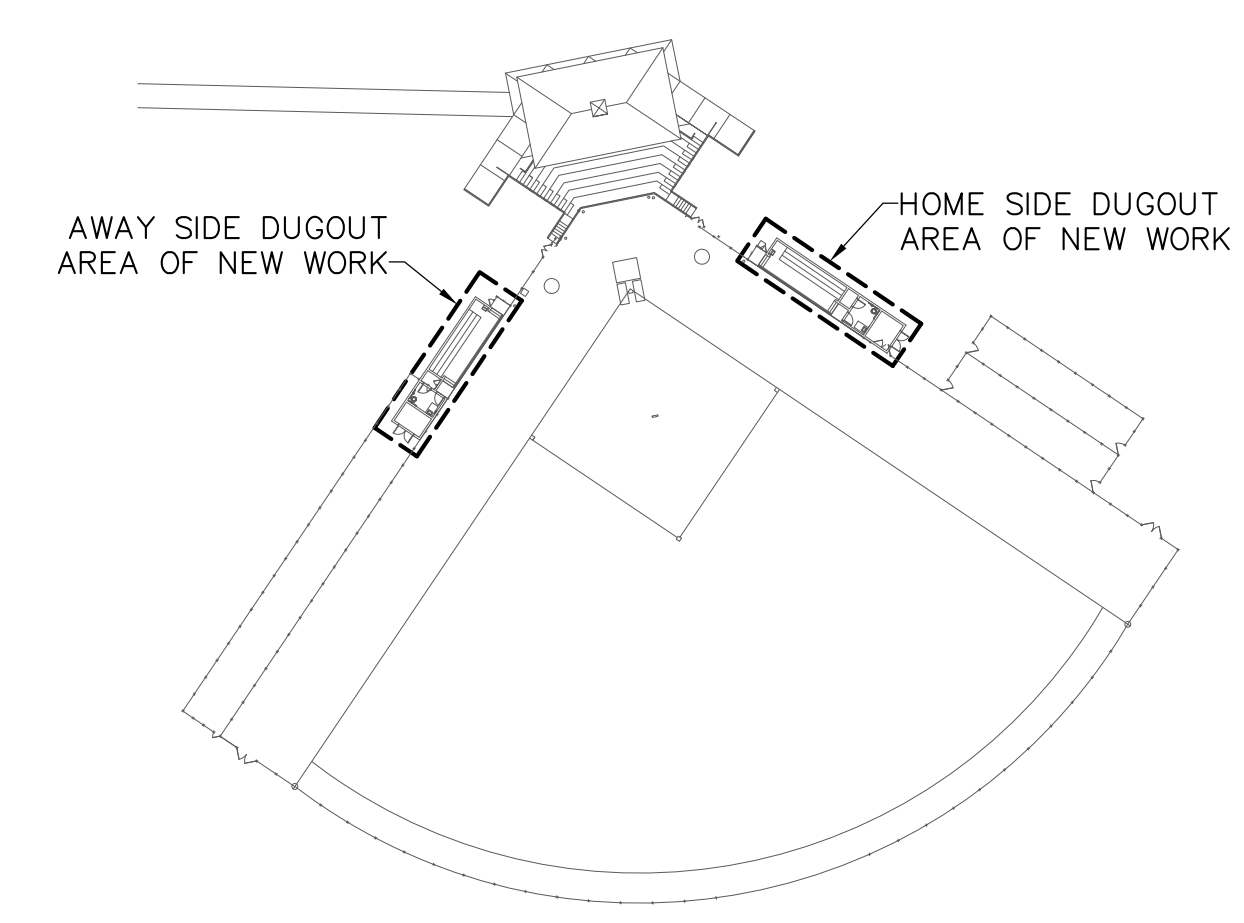
### MECHANICAL GENERAL NOTES

1. ALL SCHEDULES SHOWN ARE THE PURPOSE OF AIDING THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT QUANTITY OF EQUIPMENT.
2. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS. CO-ORDINATE HVAC INSTALLATION WITH ALL OTHER TRADES.
3. REFER TO ELECTRICAL DRAWINGS FOR POWER CONNECTION POINTS.
4. FOR EXACT DIFFUSER/GRILLE LOCATIONS, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
5. ALL INSULATION AND FLEX DUCT SHALL COMPLY WITH CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE, 2009 EDITION.
6. AUXILIARY DRAIN PANS AND LINES SHALL COMPLY WITH CHAPTER 3 OF THE INTERNATIONAL MECHANICAL CODE, 2009 EDITION.
7. ALL ELECTRICALLY POWERED EQUIPMENT SHALL BE LISTED AND LABELED PER NATIONAL ELECTRICAL CODE, AND INTERNATIONAL MECHANICAL CODE, 2009 EDITION CHAPTER 3.
8. ALL EQUIPMENT SHALL BE ACCESSIBLE PER INTERNATIONAL MECHANICAL CODE, CHAPTER 3 2009 EDITION.
9. ALL DUCTWORK AND PIPING ARRANGEMENT AND ROUTING AS SHOWN IS DIAGRAMMATIC AND MAY REQUIRE ALTERATIONS DIFFERENT FROM THAT SHOWN IN ORDER TO ACCOMMODATE STRUCTURE/ARCHITECTURAL FEATURES. CONTRACTOR SHALL FIELD VERIFY AND MAKE ALTERATIONS OR REVISIONS AS REQUIRED.
10. ALL DUCT SHALL BE COORDINATED WITH PIPING. INSIDE DUCT DIMENSIONS SHALL BE SAME AS THOSE SHOWN ON DRAWINGS. DIMENSIONS SHOWN ARE INTERIOR DIMENSIONS.
11. THE HORSEPOWERS SHOWN ARE MIN. REQUIRED FOR PRESENT AND/OR FUTURE GROWTH/OPERATION. IN NO CASE WILL ANY MOTOR H.P. REDUCTION FROM THAT SPECIFIED BE ACCEPTED.
12. FIRE DAMPERS SHALL BE PROVIDED AND INSTALLED WHERE REQUIRED BY THE INTERNATIONAL MECHANICAL CODE, CHAPTER 6, 2009 EDITION.



HVAC PLAN SOFTBALL AWAY DUGOUT  
SCALE: 1/4" = 1'-0"

HVAC PLAN SOFTBALL HOME DUGOUT  
SCALE: 1/4" = 1'-0"



KEY PLAN  
SCALE: 1/4" = 1'-0"

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**ABBREVIATIONS:**

GFI	GROUND FAULT INTERRUPTER DEVICE
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF

SYMBOL	DESCRIPTION
	HOME RUN TO LIGHTING/SERVICE PANEL. HASH MARKS, WHEN SHOWN, INDICATE NUMBERS OF CONDUCTORS. "/> INDICATES HOT WIRE, "N" INDICATES NEUTRAL CONDUCTOR, "Ø" INDICATES GROUND CONDUCTOR. HOME RUN NOTE INDICATES PANEL NAME AND CIRCUIT NAME OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. ANY HOME RUN OR CONDUIT WITHOUT HASH MARKS IS TO CONTAIN 3 CONDUCTORS: 1 HOT, 1 NEUTRAL, AND 1 EQUIPMENT GROUND, EACH HOT CIRCUIT SHALL BE PAIRED WITH A SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS BETWEEN CIRCUITS IS NOT ALLOWED.
	EXPOSED CONDUIT
	CONDUIT RUN IN SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, UNLESS NOTED OTHERWISE.
<b>WIRING DEVICES</b>	
NOTE: ALL WIRING DEVICES TO BE IVORY, WITH #302 STAINLESS STEEL COVERPLATE (FLUSH MOUNTED) UNLESS NOTED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.	
<b>SWITCH SYMBOLS</b>	
	MANUAL MOTOR STARTER
	SINGLE POLE LIGHTING SWITCH 120-277 VOLT, 20 AMP, SPEC GRADE. LETTER ("S") DESIGNATES WHICH FIXTURES ARE CONTROLLED FROM WHICH SWITCHES WHEN MULTIPLE SWITCHES ARE USED ON ONE CIRCUIT
<b>STRAIGHT BLADE DEVICE SYMBOLS</b>	
	20A, 125V, 2P, 3W, NEMA 5-20R, DUPLEX RECEPTACLE. HUBBELL 5362-1 OR EQUAL STANDARD POWER. "WP" DENOTES WATERPROOF COVER PLATE. "GFI" DENOTES GFCI TYPE. "EX" DENOTES EXISTING.
<b>LIGHTING SYMBOLS:</b>	
	1' X 4' CEILING MOUNTED FLUORESCENT FIXTURE
	SWITCHED FIXTURE WITH EMERGENCY LIGHTED BATTERY BACKUP. ROUTE "HOT" SENSING CIRCUIT TO BATTERY
	4' FLUORESCENT STRIP FIXTURE

**GENERAL LIGHTING NOTES:**

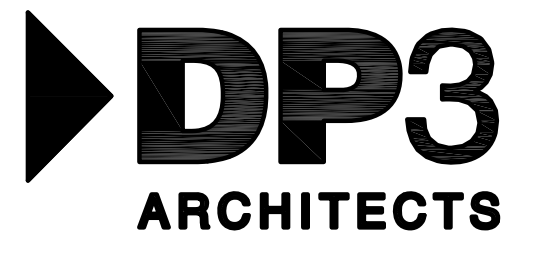
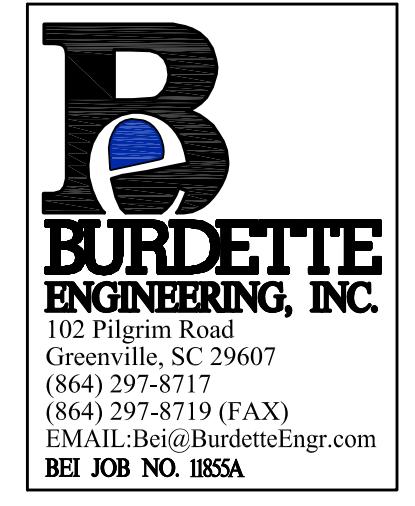
- MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.
- ALL FLUORESCENT FIXTURES SHALL HAVE PREMIUM ELECTRONIC BALLASTS WITH 90% MIN. BALLAST FACTOR AND MAX. THD OF 15%. ALL TROFFERS TO HAVE T-8 LAMPS AND .125 INCH LENSES, MINIMUM UNLESS NOTED. ALL FIXTURES TO BE PAINTED AFTER FABRICATION. BALLASTS SHALL BE MANUFACTURED BY SYLVANIA, ADVANCE OR MAGNETEK. LAMPS SHALL BE MANUFACTURED BY G.E. OR SYLVANIA.
- ALL FIXTURES TO BE U.L. LABELED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE SUBMITTING FIXTURE.
- PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED.
- EMERGENCY BATTERY BALLAST FOR FLUORESCENT FIXTURES SHALL PROVIDE A MINIMUM OF 1100 LUMEN OUTPUT. BALLAST SHALL CONTAIN INTEGRAL SENSING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED WITH AREA FIXTURES FOR NORMAL OPERATION AND ENERGIZE BATTERY POWERED LAMP UPON LOSS OF POWER CIRCUIT, REGARDLESS OF SWITCH POSITION. MANUFACTURER SHALL BE BODINE OR APPROVED EQUAL.

**LIGHTING FIXTURE SCHEDULE**

FIXTURE TYPE	FIXTURE DESCRIPTION	ACCEPTABLE MANUFACTURERS	MOUNTING HEIGHT	LAMPS	FIXTURE WATTAGE	VOLTAGE
IA	4', 2 LAMP STANDARD CHANNEL STRIP LIGHT, 22 GA. STEEL, PAF, WITH WIRE GUARD, ELECTRONIC BALLAST BY ADVANCE OR MAGNETEK.	WILLIAMS # 76-4-232-WG1-EB2-UNV METALUX # SS-232-EB81-WG/SS-4FT-PAF LITHONIA # C232-GE8-WG9-PAF	.	2-F032T8/35K	60	UNIVERSAL VOLTAGE OR MULTI-TAP
IB	4', 1 LAMP STANDARD CHANNEL STRIP LIGHT, 22 GA. STEEL, PAF, WITH WIRE GUARD, ELECTRONIC BALLAST BY ADVANCE OR MAGNETEK.	WILLIAMS # 7612-E2320C-WG7614 METALUX # SS-132-EB81-WG/SS-4FT-PAF LITHONIA # C132-GE8-WG9-PAF	.	1-F032T8/35K	33	UNIVERSAL VOLTAGE OR MULTI-TAP
SB	ENCLOSED, GASKETED, WET LOCATION FIXTURE WITH IMPACT RESISTANT ACRYLIC DIFFUSER, ELECTRONIC BALAST, TEMPER RESISTANT LATCHES.	LITHONIA # VRI-3/32-INVOLT-GE810IS COLUMBIA # LUN-4-332E-TP	.	3-F032T8/35K	56	UNIVERSAL VOLTAGE OR MULTI-TAP
SBE	SAME AS 'SB' ABOVE EXCEPT WITH EMERGENCY BATTERY BACKUP	LITHONIA # VRI-3/32-INVOLT-GE810IS-EM COLUMBIA # LUN-4-332E-TP-EM	.	3-F032T8/35K	56	UNIVERSAL VOLTAGE OR MULTI-TAP

**ELECTRICAL GENERAL NOTES:**

- INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
- CONFORM TO THE NATIONAL ELECTRICAL CODE (2008), IBC (2009), APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
- FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW, WITH FIRST QUALITY AND UL LABEL.
- VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
- CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING AS ALLOWED BY NEC, EXCEPT THAT SET SCREW OR CRIMP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, STRANDED ROOY COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
- PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION.
- SEAL ALL CONDUIT PENETRATIONS TO MATCH RATING OF WALL BEING PENETRATED.
- ALL WORK SHALL HAVE PROPER LABELING AND NAMEPLATES. ALL CIRCUITS SHALL BE LABELED AT PANELS AND BOXES AS INDICATED. ALL PANELS AND DISCONNECTS ARE TO BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS ARE TO BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
- THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNERS' PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
- GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2009 IBC AND SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS, CHAPTER 17 OF 2009 IBC AS IT RELATES TO ELECTRICAL EQUIPMENT.



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Softball Field Repairs and Upgrades

Project Number 11124  
Drawn By TMP  
Checked By RAB/DJB  
Date 6 JAN 2012

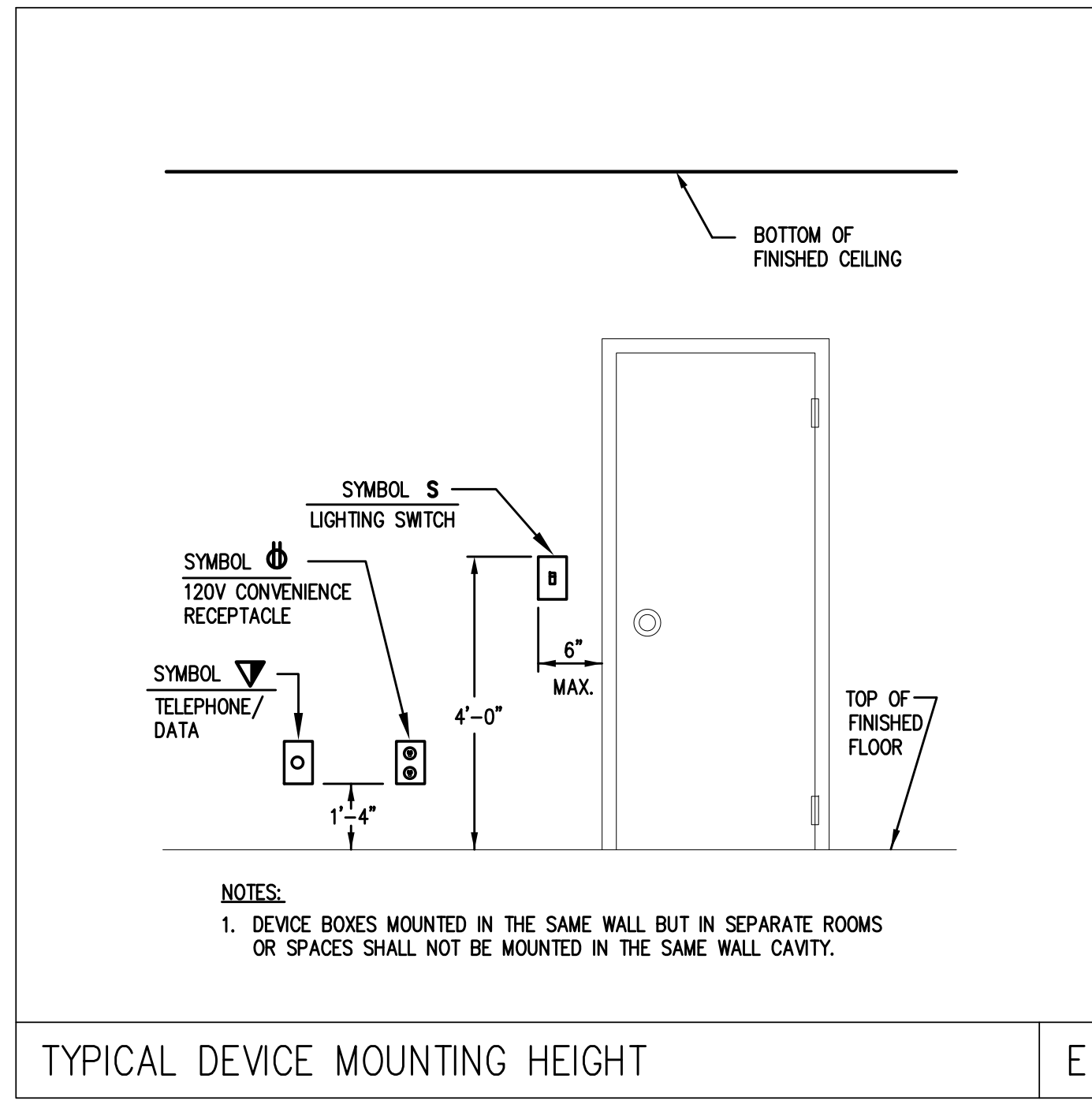
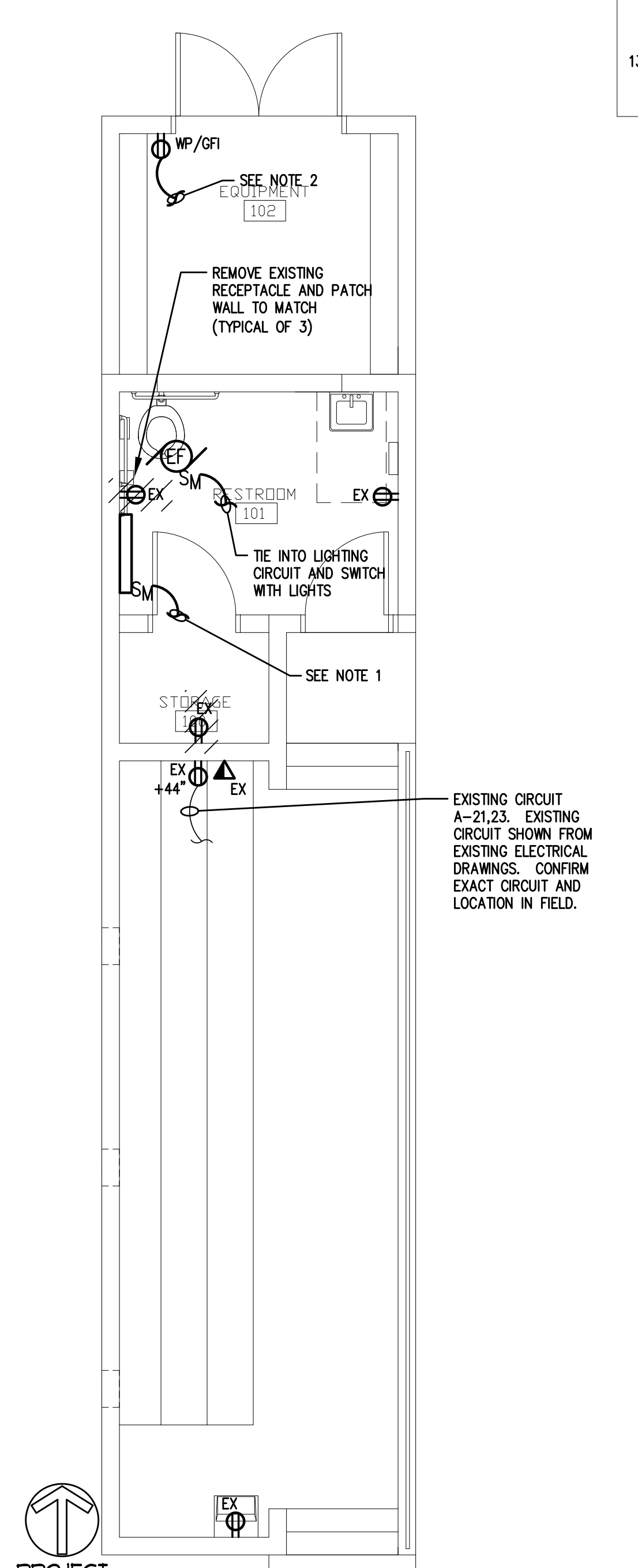
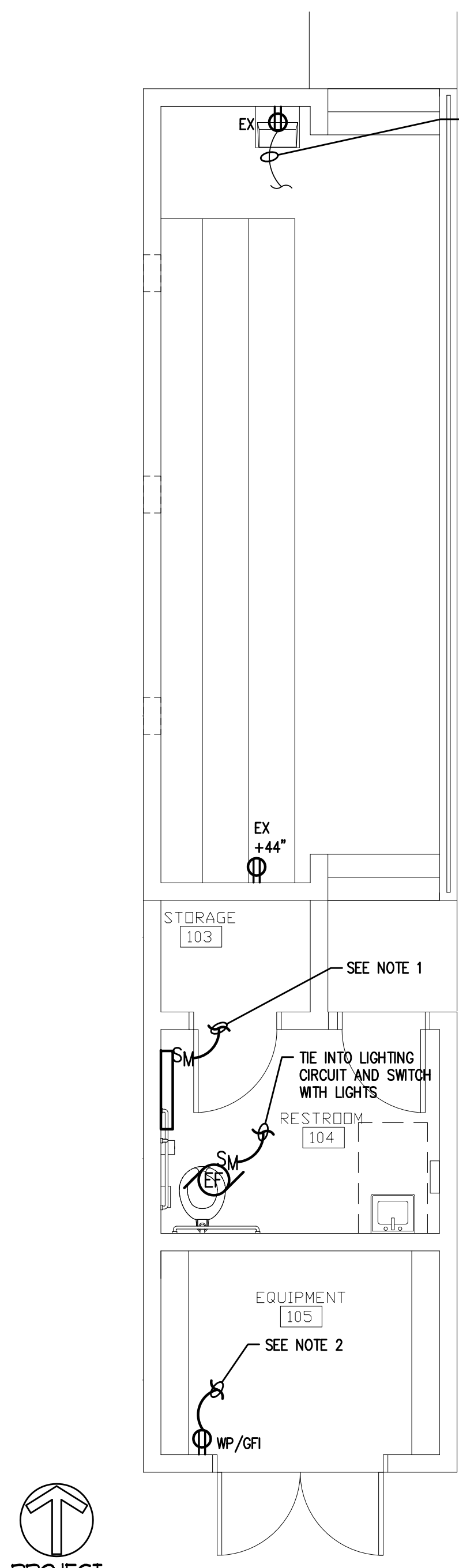
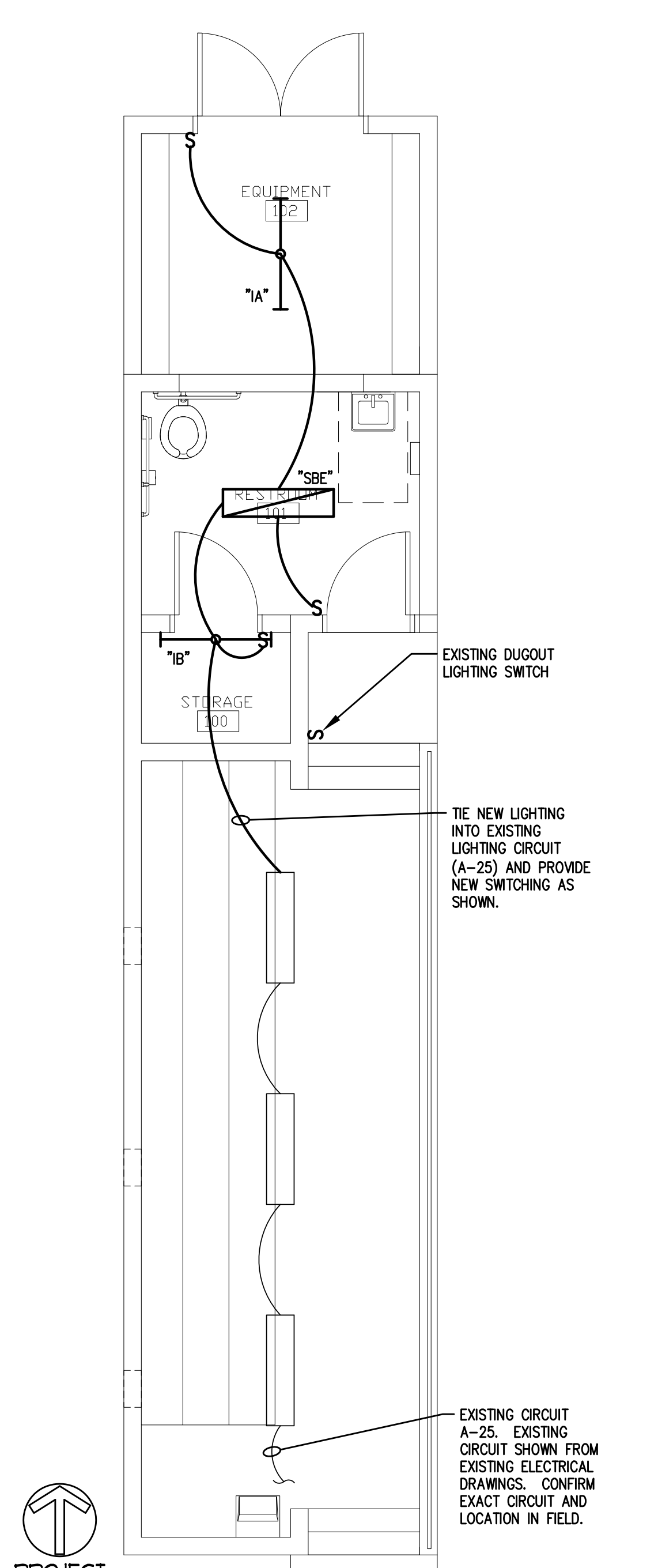
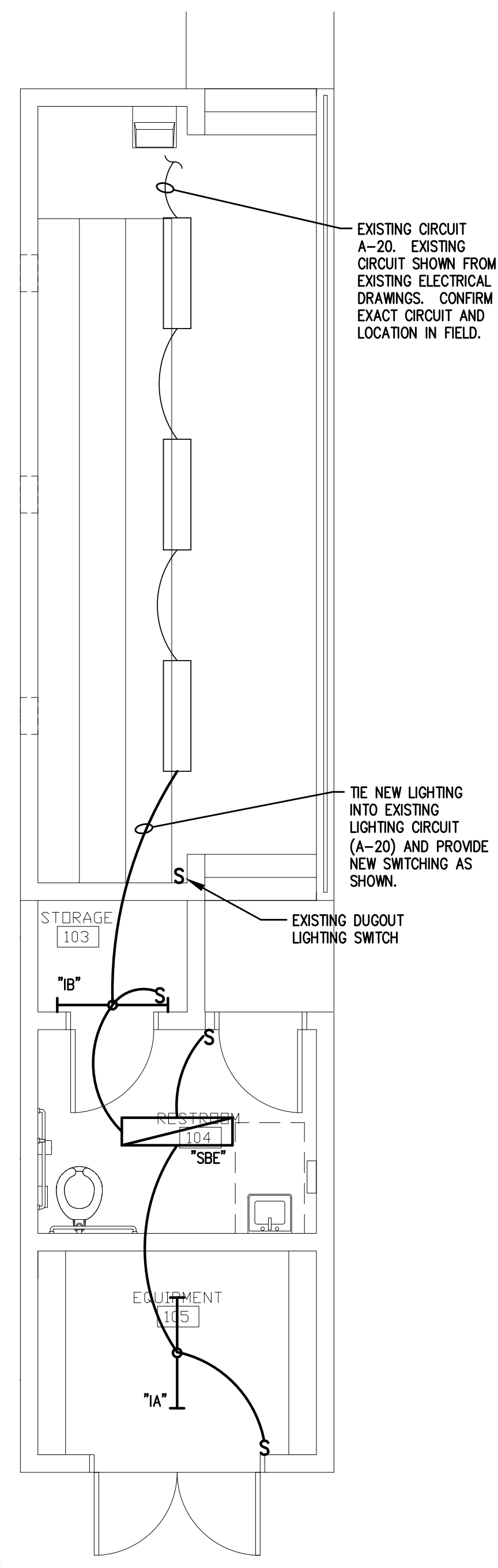
Revisions

Drawing

ELECTRICAL LEGEND, DETAILS, SCHEDULES AND PLANS

E1.1

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- NOTES:
- TIE THE NEW BASEBOARD HEATER INTO EXISTING UNSWITCHED LIGHTING CIRCUIT.
  - TIE THE NEW RECEPTACLE INTO EXISTING RECEPTACLE CIRCUIT.

