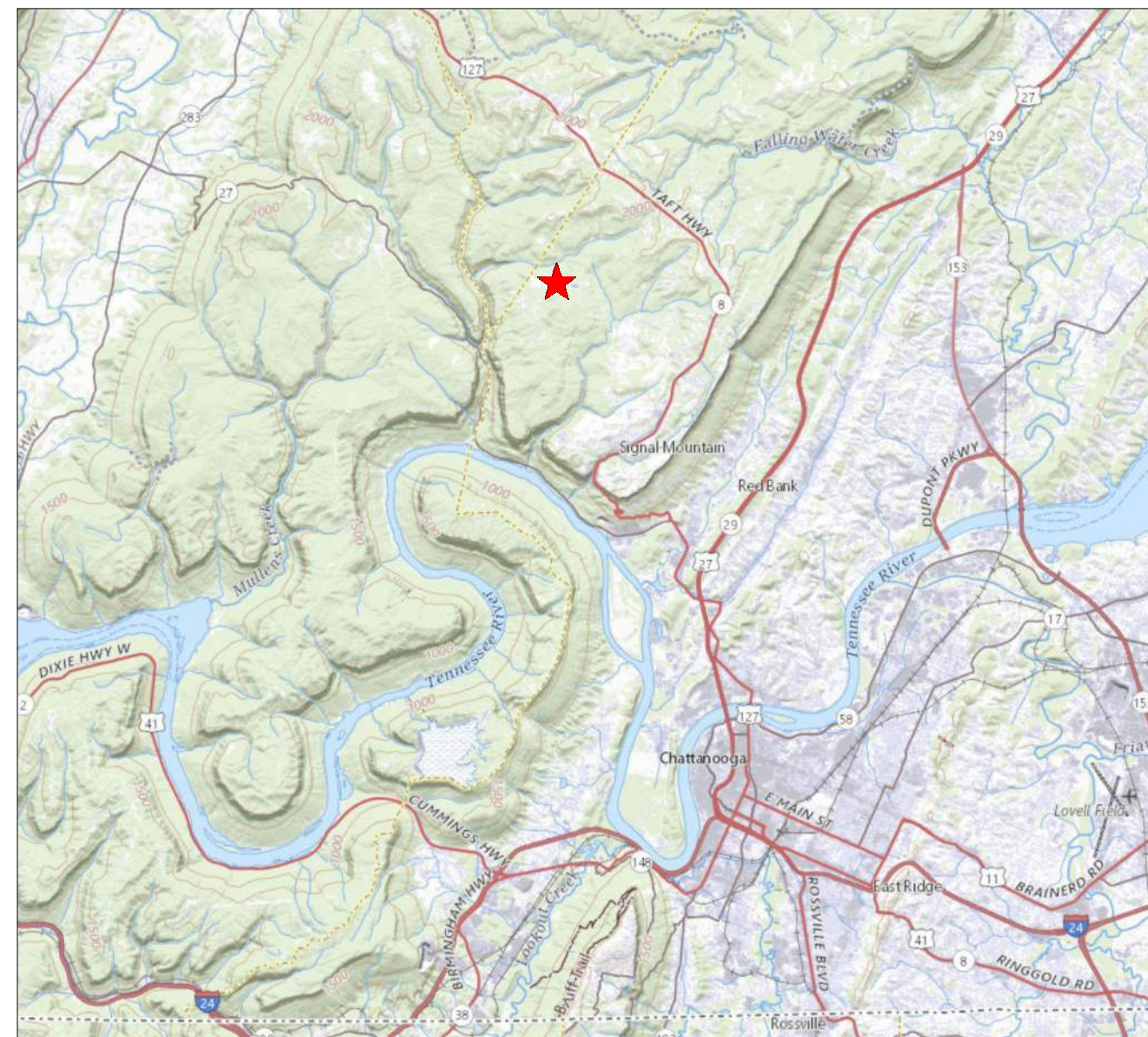


SMMHS Tennis Courts Addition

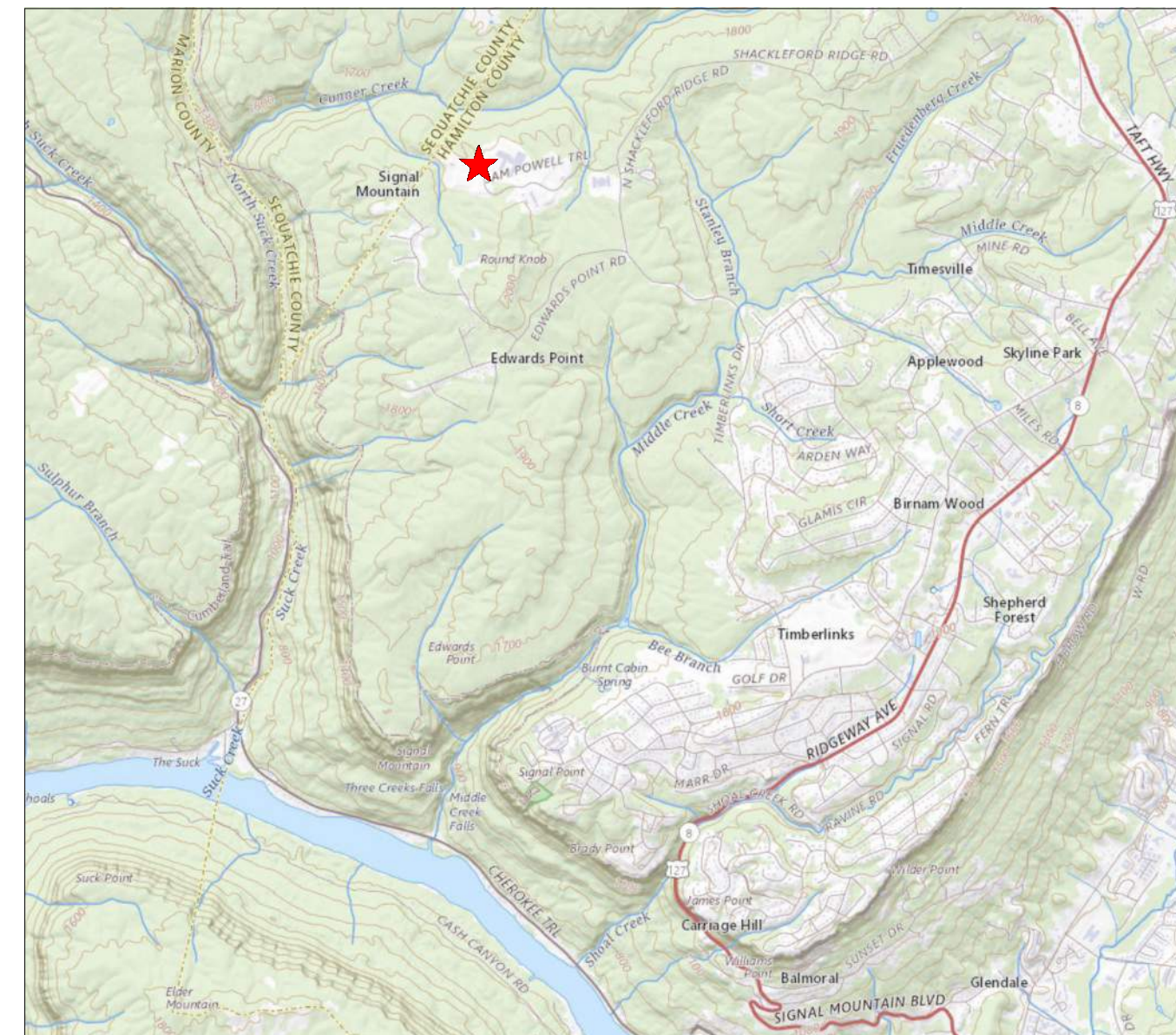
2654 Sam Powell Trail

Signal Mountain, TN 37377

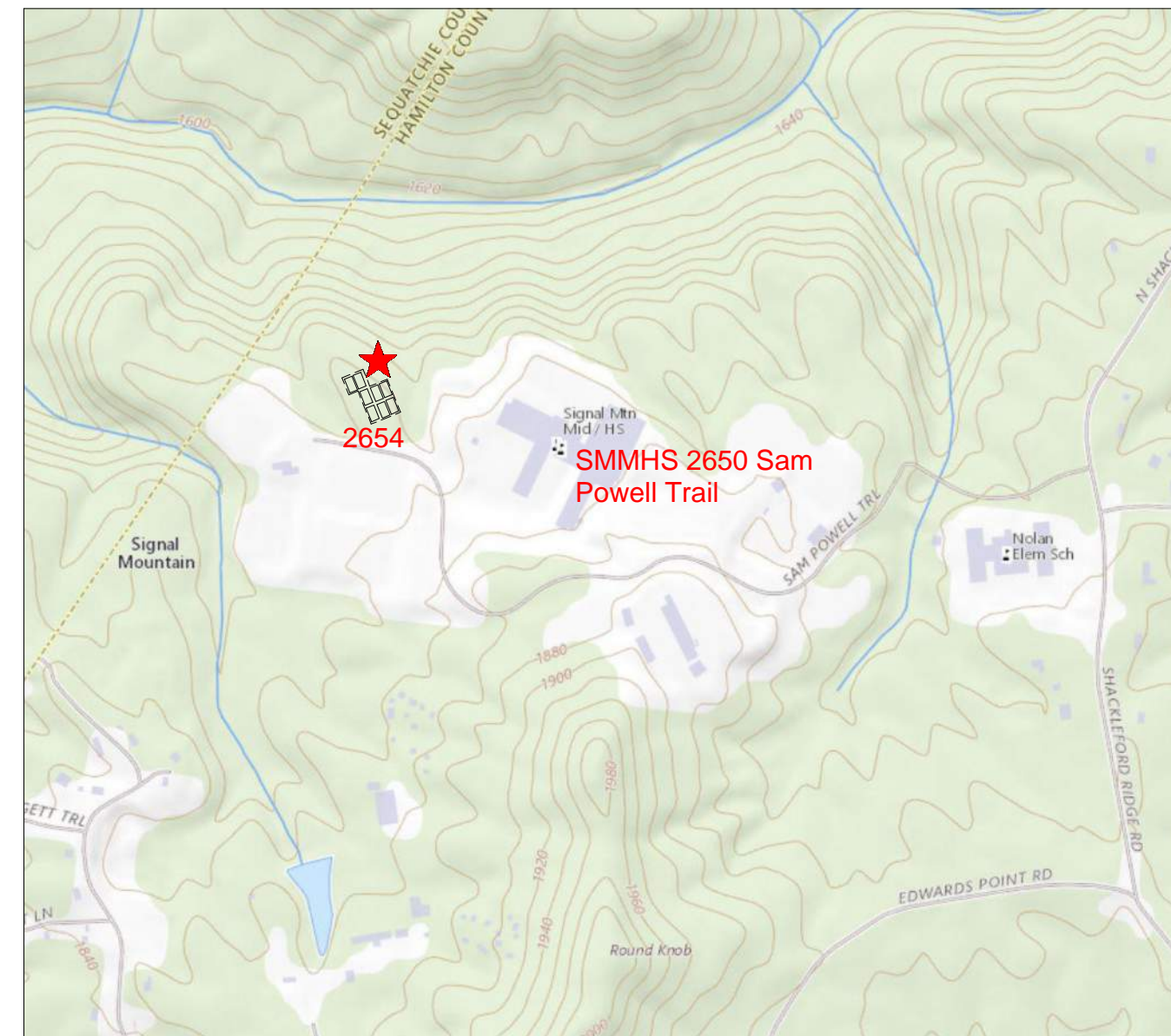
HCDE Bid 24-59



REGIONAL LOCATION MAP



AREA LOCATION MAP



SITE LOCATION MAP

BASE BID

- ALL CLEARING, GRADING & EROSION CONTROL FOR COURTS 1-8
- COURT ASSEMBLIES 1 - 6
- LIGHT POLE BASES 1 - 6 WITH CONDUIT & PULL STRING
- SEEDING FOR COURTS 7 - 8 PADS
- GRAVEL PARKING
- GRAVEL PLAZA BETWEEN COURTS 1-6
- REROUTE TRAIL
- WATER SERVICE, METER AND HYDRANT ASSEMBLY
- ELECTRICAL SERVICE TRANSFORMER, PAD AND DISTRIBUTION BOX ASSEMBLY
- SECURITY LIGHTING ASSEMBLIES (POLE, CONDUCTOR AND FIXTURES) FIXTURES TO BE PHOTOCELL CONTROLLED

ALTERNATE 1 (ADDITIVE)

- TENNIS COURTS ASSEMBLIES 7 - 8
- LIGHT POLE BASES & CONDUIT FOR 7 - 8
- STORM DRAINAGE FOR COURTS 7 - 8
- PAVE PLAZA WITH ASPHALT, EXTEND TO END OF COURTS 7-8 (GRAVEL IS BASE BID)

ALTERNATE 2 (ADDITIVE)

- LIGHT FIXTURES, POLES, CONDUCTORS, SWITCHES, AND TIMERS FOR LIGHTING COURTS 1-6

SHEET LIST

Sheet Number	Sheet Name	Current Revision Date
General		
G000	COVER SHEET	
Civil		
C001	SITE SURVEY	
C100	SITE PLAN	
C200	EXISTING AND DEMOLITION	
C301	SITE GRADING	
C302	SITE DRAINAGE	
C400	SITE UTILITIES	
C500	SEDIMENT & EROSION CONTROL NOTES	
C501	SEDIMENT & EROSION CONTROL PHASE I	
C502	SEDIMENT & EROSION CONTROL PHASE II	
C600	GENERAL NOTES	
C700	SITE DETAILS	
C800	SITE DETAILS	
Architecture		
A100	SITE PLAN	
A101	Plan Detail-Typical Fencing and Court 1 Layout	
Electrical		
ES101	ELECTRICAL SITE PLAN	
ES102	ELECTRICAL PHOTOMETRICS PLAN	
ES103	ELECTRICAL SITE DETAILS	

DERTHICK, HENLEY AND WILKERSON, ARCHITECTS
 1001 Carter Street
 Chattanooga, Tennessee 37402
 Telephone: (423) 266-4816
 Fax: (423) 267-8830
 Contact: Andrew Hausler
 ahausler@dhw-architects.com

March Adams & Associates
Civil and Electrical Engineering
 310 Dodds Avenue
 Chattanooga, TN 37404
 423-698-6675

Joseph Parks PE, Civil Engineering
 email: joe.parks@marchadams.com

Gary Ellis. F. E., Electrical Engineering
 email: gary.ellis@marchadams.com

PROJECT SUMMARY

The Project consists of clearing, grading and construction required to install new Tennis Court assemblies. This requires installation of utilities, repair of existing roadway where utilities cross Sam Powell Trail, maintenance of erosion control features, relocation of a portion of a walking trail, relocation of storage containers to a new location no more than 1/2 mile from current location, installation of new construction, including all components of Tennis Court Assemblies, seeding and stormwater management. Refer to drawings and Alternates for more information.

CODE REQUIREMENTS

Applicable Codes:
 2018 International Building Code
 2018 International Plumbing Code
 2018 International Mechanical Code
 2018 International Fuel Code
 2018 International Fire Code
 2020 National Electrical Code
 2018 International Energy Conservation Code
 2017 ANSI (National Standard) Accessibility Code
 2018 NFPA Life Safety Code

Climate Zone 4A

Occupancy Type:
 Occupancy Group N/A -Outdoor, not covered
Construction Type:
 N/A

Fire Resistance Ratings per Table 601:
 Not Applicable

Area Summary:
 Not Applicable

Fire Suppression System:
 Not Applicable

GENERAL NOTES

Contractor shall field verify all dimensions, elevations, and locations of existing conditions affecting this project, prior to fabrication or installation of new work. Notify architect of any discrepancies from dimensions shown, noted, or required. Adjust dimensions of new construction at direction of architect to allow for actual field conditions.

Where a detail is shown or note is described for one condition, it shall apply for all like or similar conditions even though not specifically noted on the drawings.

Refer to Electrical & Civil drawings for locations of Equipment.

Provide continuous separation between dissimilar materials as required to prevent galvanic corrosion.

SMMHS Tennis Courts Addition

HCDE Bid 24-59

2654 Sam Powell Trail
 Signal Mountain, TN 37377

Date: 03/29/24

Drawn: Wood

File: 2235

Revisions

Key Plan



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Bid Set

Title:
COVER SHEET

Scale:

Sheet No.

G000

BOUNDARY NOTES:
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 2) ALL MATTERS OF RECORD ARE EXEMPT.

LEGEND

- IRON PIN FOUND
- PP/LP POWER/LIGHT POLE
- WM WATER METER
- ⊗ SMH SANITARY SEWER MANHOLE
- ⊕ SITE BENCHMARK
- ⊙ SDI STORM DRAINAGE INLET
- GW GUY WIRE
- BSMH BELL SOUTH MANHOLE
- GAS LINE
- WATER LINE
- OVERHEAD POWER
- REINFORCED CONCRETE PIPE

SITE

HAMILTON CO
 TENNESSEE

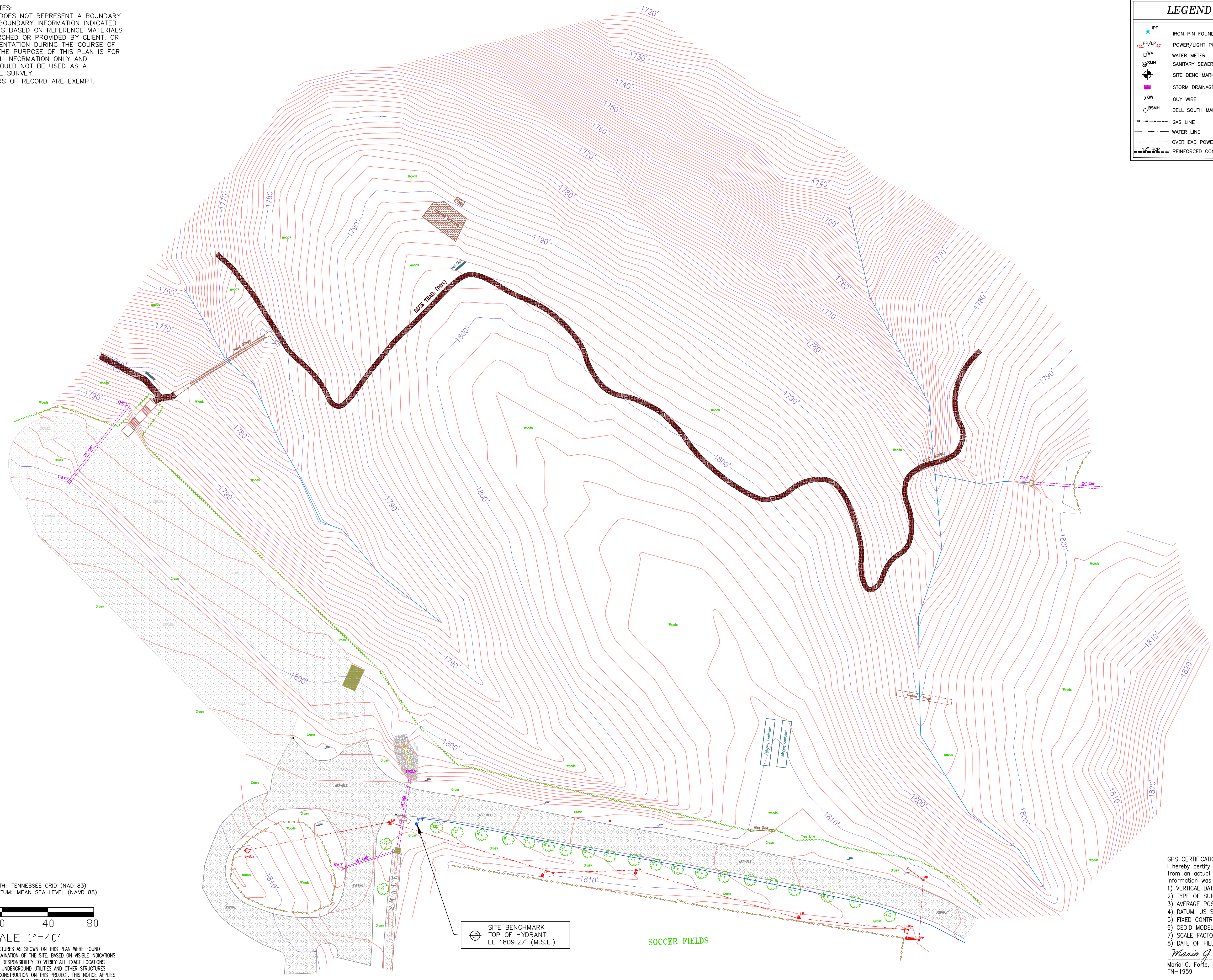
LOCATION MAP
 NO SCALE

BEGINNING POINT SURVEYS, INC.
Consulting Land Surveyors
 101 Tuxedo Circle, Chattanooga TN 37411
 (423) 624-0020

TOPOGRAPHIC PLAN
 SMMHS TENNIS COURTS
 HAMILTON CO. TN
 PREPARED FOR
 Hamilton Co. Dept. of Education

DATE	REVISION	DESCRIPTION
11/27/2023	1	ISSUED FOR PERMIT

SHEET NO. 1 OF 1
 JOB NO. Tn-2347



NORTH AZIMUTH: TENNESSEE GRID (NAD 83).
 ELEVATION DATUM: MEAN SEA LEVEL (NAVD 88)

SCALE 1"=40'

THE UTILITIES AND STRUCTURES AS SHOWN ON THIS PLAN WERE FOUND PER ABOVE GROUND EXAMINATION OF THE SITE, BASED ON VISIBLE INDICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION ON THIS PROJECT. THIS NOTICE APPLIES TO INFORMATION SHOWN ON THIS PLAN OR ANY ASSOCIATES PLAN FOR THIS PROJECT - INCLUDING PLANS OF THE SAME PREPARED BY OTHERS. CALL BEFORE YOU DIG! CALL- 811

GPS CERTIFICATION:
 I hereby certify that this map or plot was drawn under my supervision from an actual GPS survey made under my supervision and the following information was used to perform this survey:
 1) VERTICAL DATUM: NAVD 88 (2011Z)
 2) TYPE OF SURVEY: RTK (Real Time Kinematic)
 3) AVERAGE POSITIONAL ACCURACY PER POINT: 0.05' HORIZ., 0.09' VERT.
 4) DATUM: US STATE PLANE 1983 - NAD83 (2011), TENNESSEE 4100
 5) FIXED CONTROL USED: Earl Dudley, NTRIP Network/Net_3
 6) GEOID MODEL: GEOID18, Ellipsoid: GRS1980
 7) SCALE FACTOR: 1.00001667
 8) DATE OF FIELDWORK: November 21, 2023

Mario G. Forte
 Mario G. Forte, P.S.
 TN-1959
 DATE: 11/27/2023

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C001



LEGEND

---	Ex. Curb
---	Ex. Centerline
---	Ex. Fence
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Ditch Centerline
---	Ex. Gas Line
---	Ex. Overhead Elect. or Utility Line
---	Ex. Underground Electrical
---	Ex. Underground Fiber Optics
---	Ex. Underground Telephone
---	PROPERTY LINE
---	BUILDING LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. LIMITS OF CONSTRUCTION
---	OHE
---	PROP. OVERHEAD ELECT. OR UTILITY LINE

ABBREVIATIONS:
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH)
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH)
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH)
 LJA BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE)
 FISH - FRONT YARD SETBACK, SIDE YARD SETBACK / FISH-REAR YARD SETBACK
 FFE - FINISHED FLOOR ELEVATION
 TW - FINISH GRADE AT TOP OF RETAINING WALL
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL
 S2000 / S200 - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT
 DS - ROOF DOWNSPOUT CONNECTION
 SSWL - SINGLE SOLID WHITE LINE, DSWL - DOUBLE SOLID YELLOW LINE
 SDWL - SINGLE DASHED WHITE LINE

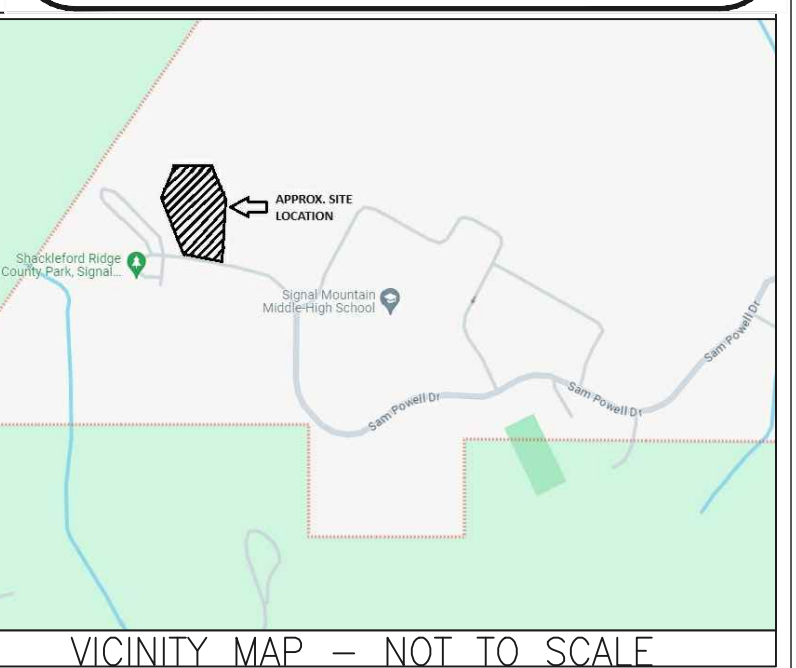
SITE INFORMATION:
 SITE AREA: NA
 SITE IS ZONED: EXEMPT R-E
 LAND DISTURBANCE AREA: 2.7+ ACRES
 TAX MAP PARCEL #: 08B_034

STREET ADDRESS: 2694 SAM POWELL TRAIL, SIGNAL MOUNTAIN, TN 37377

SANITARY SEWER AVAILABILITY: EX. PUBLIC SEWER MAIN LOCATED IN SAM POWELL TRAIL
 POTABLE WATER: EX. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: SAM POWELL TRAIL
 STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING DRAINAGE DITCH DOWNER CREEK

REGULAR PARKING SPACES: 16
 REGULAR H/CAP SPACES: 0
 MAX ACCESSIBLE H/CAP SPACES: 1
 TOTAL PARKING PROVIDED: 17 SPACES

FLOODZONE: THE PROPERTY IS LOCATED OUTSIDE OF A FLOOD ZONE PER THE FIRM MAP COMMUNITY-PANEL NUMBER 4706SC0211G, MAP REVISED 02/03/2016.
 PROPERTY OWNER: HAMILTON COUNTY BOARD OF EDUCATION
 3074 HICKORY VALLEY RD
 CHATTANOOGA TN 37421



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NORTH

Scale 1" = 30'

MAA CIVIL CONTACT: JOSEPH PARKS, P.E.
 DIRECT LINE: 423-664-1482

MAA **March Adams & Associates** Consulting Engineers MAA #21280
 310 Dodds Ave.
 P.O. Box 3689
 Chattanooga, Tennessee 37404
 TEL: (423) 698-6675

SMMHS Tennis Courts
HCDE Bid 24-59

Sam Powell Trail
 Signal Mountain, TN
 37377

Date: 04/05/2024
 Drawn: CH/JP
 File: 2235

Revisions:
 :

Key Plan
Bid Set

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Title:
SITE PLAN

Scale:
 Sheet No.



LEGEND

---	Ex. Curb
---	Ex. Centerline
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Ditch Centerline
---	Ex. Gas Line
---	Ex. Overhead Elect. or Utility Line
---	Ex. Underground Electrical
---	Ex. Underground Fiber Optics
---	Ex. Underground Telephone
---	PROPERTY LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE

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 SDCD / SDCO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT
 DS - ROOF DOWNSPOUT CONNECTION
 SSWL - SINGLE SOLID WHITE LINE; DSWL - DOUBLE SOLID YELLOW LINE
 SDWL - SINGLE DASHED WHITE LINE

SPECIAL NOTE: EXISTING UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE. EXISTING UNDERGROUND UTILITIES (NOT SHOWN ON THESE DRAWINGS) MAY BE PRESENT IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EXCAVATION. SHOULD THE CONTRACTOR UNCOVER UNKNOWN UTILITIES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SOURCE AND DISCHARGE OF THE UNKNOWN UTILITIES AND CONTACT THE OWNER AND ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

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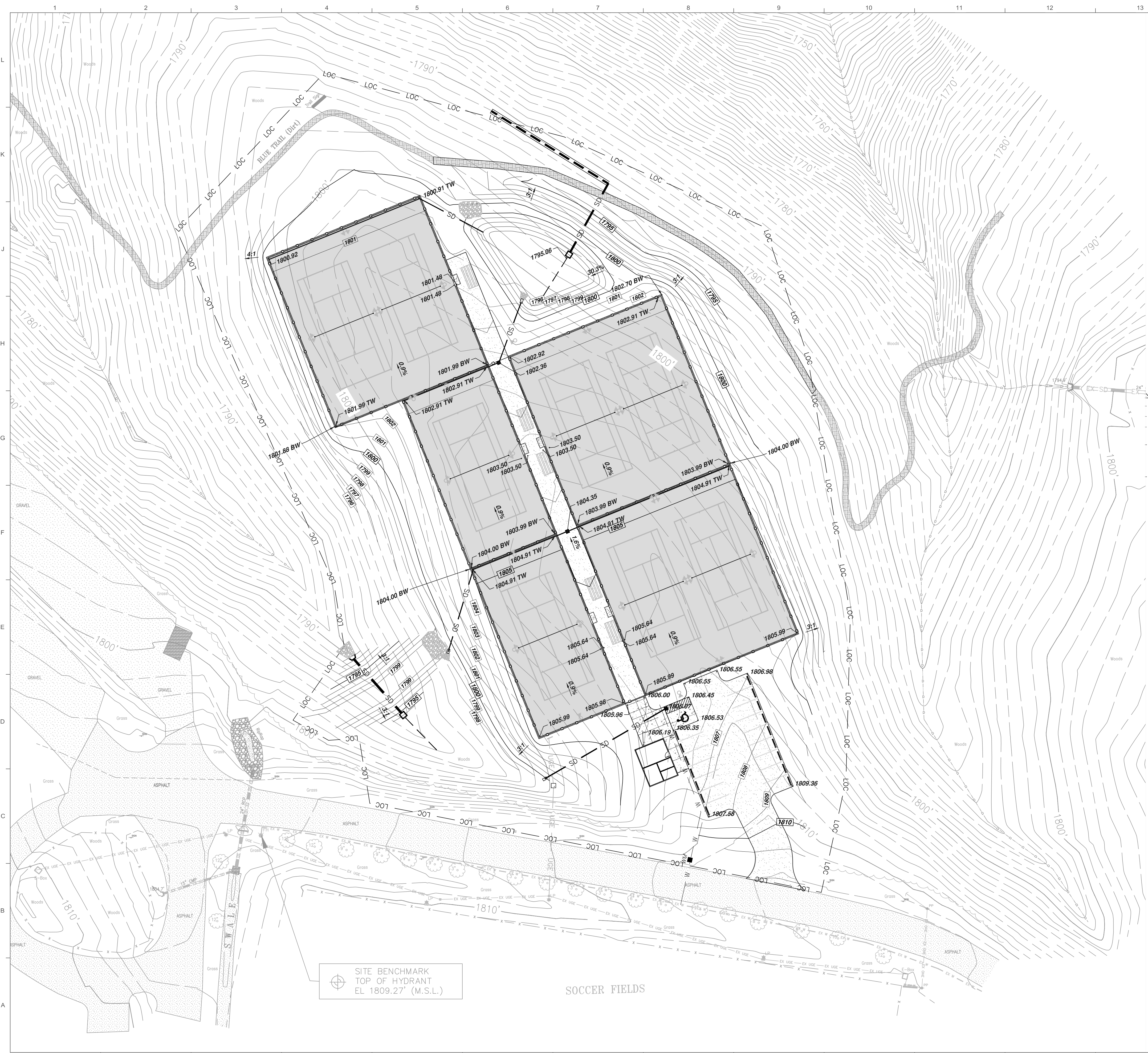


Title: **EXISTING AND DEMOLITION**

Scale:
 Sheet No.

March Adams & Associates
 Consulting Engineers MAA #21280
 310 Dodds Ave.
 P.O. Box 3689
 Chattanooga, Tennessee 37404
 TEL (423) 698-6675

C200



LEGEND

---	Ex. Curb
---	Ex. Centerline
---	Ex. Fence
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Gas Line
---	Ex. Ditch Centerline
---	Ex. OHE
---	Ex. Undergrad. Elect. or Utility Line
---	Ex. Undergrad. Electrical
---	Ex. Undergrad. Fiber Optics
---	Ex. Undergrad. Telephone
---	PROPERTY LINE
---	BUILDING LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. SWALE CENTERLINE
---	PROP. DITCH CENTERLINE
---	PROP. WATER LINE
---	PROP. FIRE LINE
---	PROP. IRRIGATION LINE
---	PROP. STORM DRAINAGE LINE
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---	PROP. SANITARY SEWER FORCE MAIN
---	PROP. OVERHEAD ELECT. OR UTILITY LINE
---	PROP. UNDERGROUND TELEPHONE

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 DS - ROOF DOWNSPOUT CONNECTION
 SSW - SINGLE SOLID WHITE LINE / DSW - DOUBLE SOLID YELLOW LINE
 SDWL - SINGLE DASHED WHITE LINE

- NOTES**
- SEE SHEET C600 FOR GENERAL AND GRADING AND DRAINAGE NOTES.
 - CROSS SLOPES OF SIDEWALKS NOT TO EXCEED 2.00% SLOPE.
 - ANY EXCAVATED SLOPE 3:1 OR STEEPER IS TO BE STABILIZED WITHIN 7 DAYS.
 - CONTRACTOR SHALL NOTIFY SURVEYOR AND CITY STORM WATER INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY COVER PLACED ON UNDERGROUND SYSTEMS. FAILURE TO DO SO MAY RESULT IN RE-EXCAVATION.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STORM WATER AS-BUILT (STAMPED BY A LICENSED SURVEYOR) AT THE CLOSE OUT OF PROJECT. AS-BUILT DRAWINGS SHALL BE ACCOMPANIED BY AS-BUILT PHOTOGRAPHS MADE DURING THE SURVEY/INSPECTION.



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SMMHS Tennis Courts

HCDE Bid 24-59

Sam Powell Trail
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 Drawn: CH/JP
 File: 2235

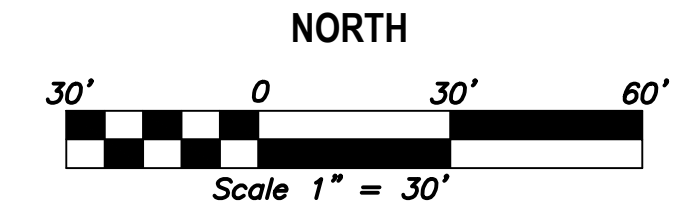
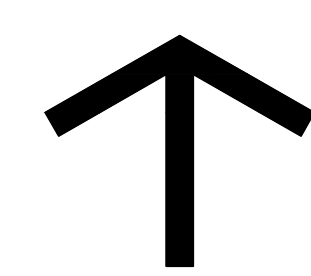
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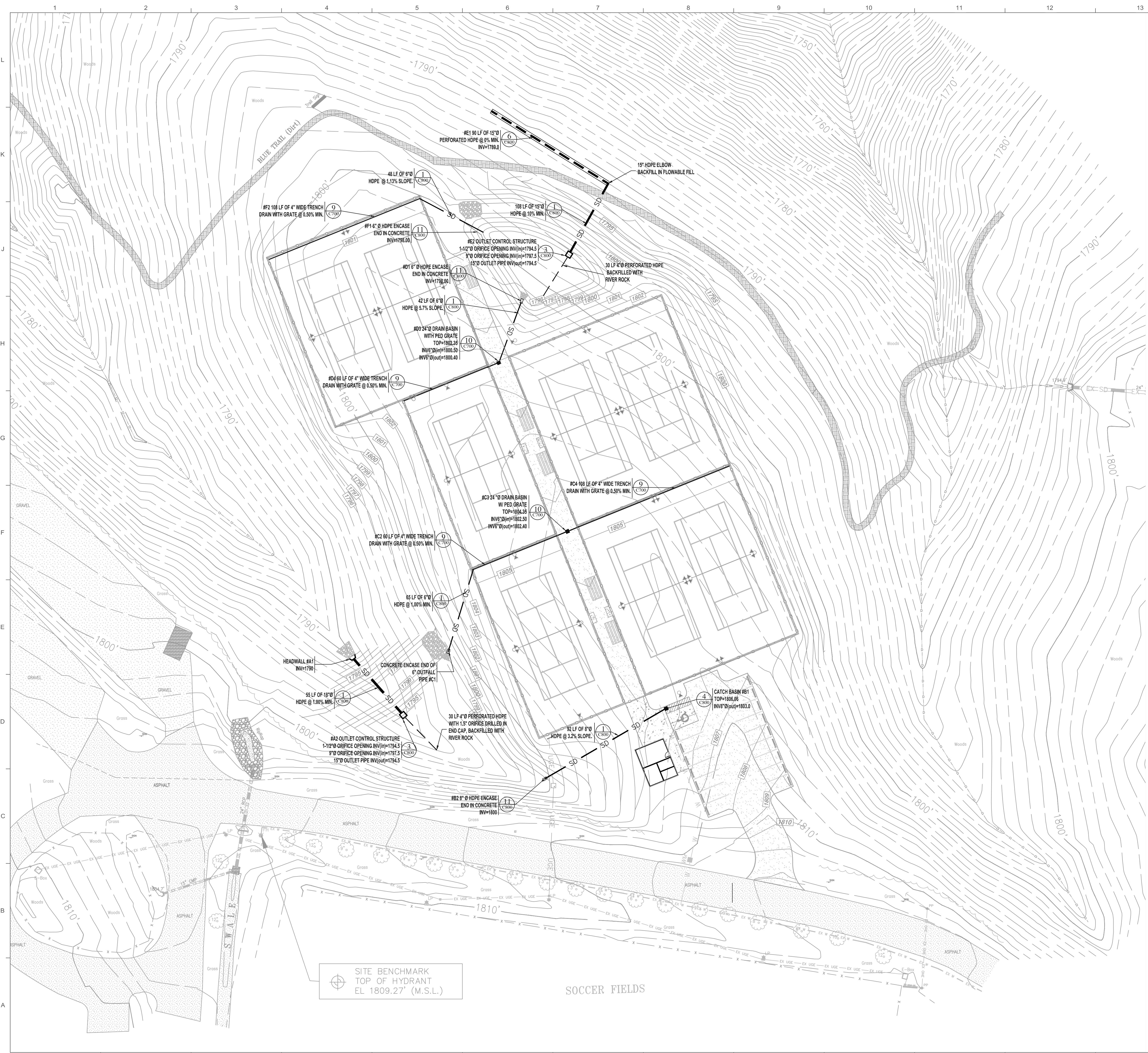


Title:
SITE GRADING

Scale:
 Sheet No.

MA & A March Adams & Associates
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 P.O. Box 3689
 Chattanooga, Tennessee 37404
 PH: (423) 698-6675

C301



LEGEND

Ex. Curb	Ex. Centerline	Ex. Fence	Ex. Water Line	Ex. Fire Line	Ex. Irrigation Line	Ex. Storm Drainage Line	Ex. Sanitary Sewer Line	Ex. Sanitary Sewer Force Main	Ex. Swale Centerline	Ex. Ditch Centerline	Ex. Gas Line	Ex. Overhead Elect. or Utility Line	Ex. Underground Electrical	Ex. Underground Fiber Optics	Ex. Underground Telephone							
PROPERTY LINE	BUILDING LINE	EASEMENT LINE	BUILDING SETBACK LINE	LANDSCAPE BUFFER LINE	LOT LINE	ROW LINE	CURB	CENTERLINE	PROP. FENCE LINE	PROPOSED SWALE CENTERLINE	PROPOSED DITCH CENTERLINE	PROP. WATER LINE	PROP. FIRE LINE	PROP. IRRIGATION LINE	PROP. GAS LINE	PROP. STORM DRAINAGE LINE	PROP. SANITARY SEWER LINE	PROP. SANITARY SEWER FORCE MAIN	PROP. OVERHEAD ELECT. OR UTILITY LINE	PROP. UNDERGROUND ELECTRICAL	PROP. UNDERGROUND FIBER OPTICS	PROP. UNDERGROUND TELEPHONE

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SMMHS Tennis Courts

HCDE Bid 24-59

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 File: 2235

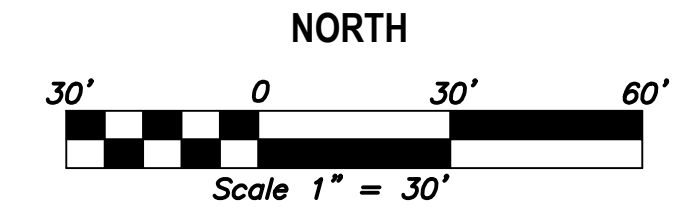
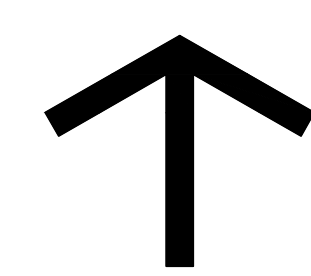
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SITE DRAINAGE

Scale:
 Sheet No.

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 Chattanooga, Tennessee 37404
 TEL: (423) 698-6675
 MAA #21280



LEGEND

---	Ex. Curb
---	Ex. Centerline
---	Ex. Fence
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Ditch Centerline
---	Ex. Gas Line
---	Ex. Overhead Elect. or Utility Line
---	Ex. Underground Electrical
---	Ex. Underground Fiber Optics
---	Ex. Underground Telephone
---	PROPERTY LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. SWALE CENTERLINE
---	PROP. DITCH CENTERLINE
---	PROP. WATER LINE
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SMMHS Tennis Courts

Sam Powell Trail
 Signal Mountain, TN
 37377

Date: 04/05/2024
 Drawn: CH/JP
 File: 2235

Revisions
 :

Key Plan
 Bid Set

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NORTH

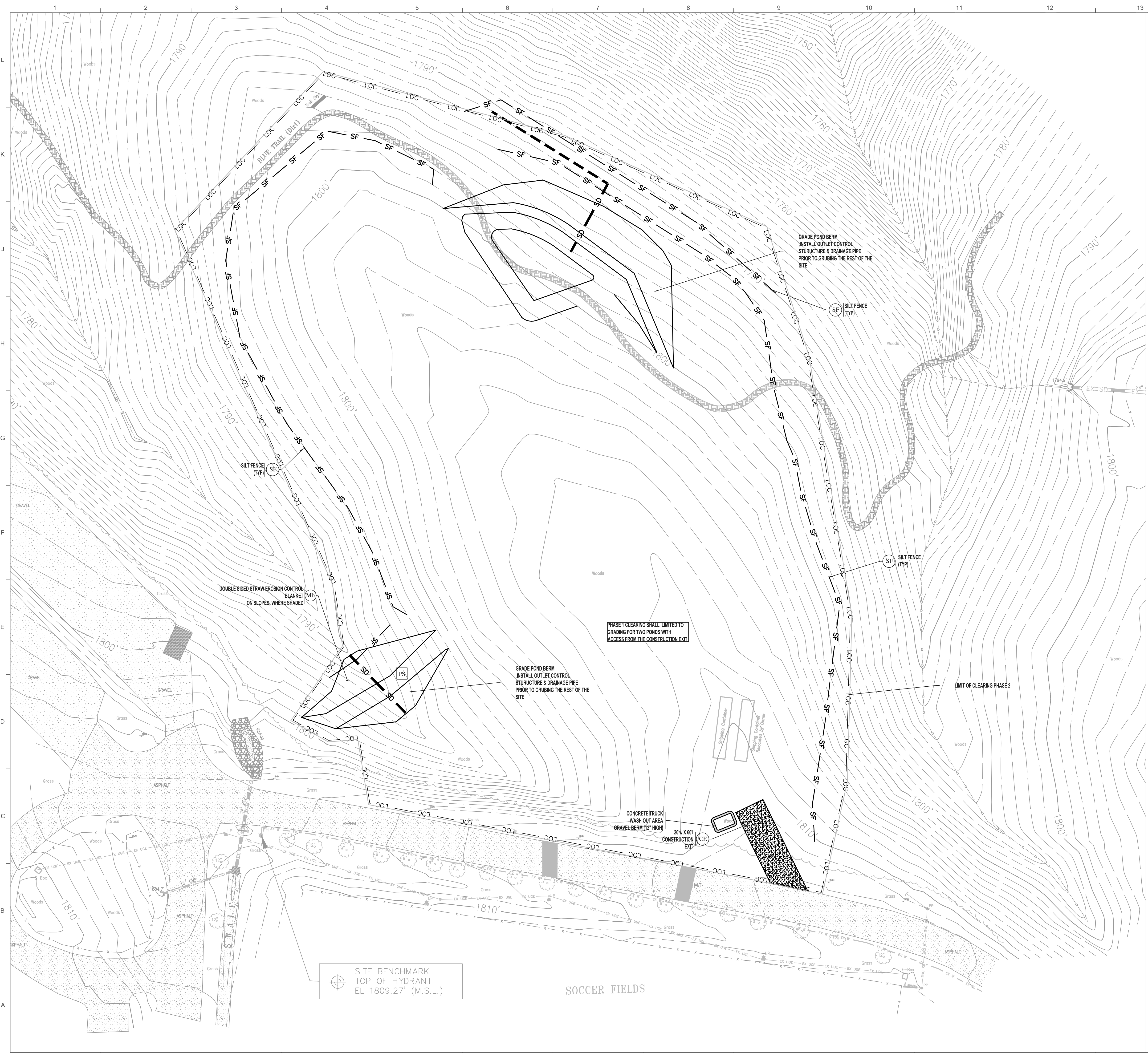
30' 0 30' 60'
 Scale 1" = 30'

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Title: **SITE UTILITIES**

Scale:
 Sheet No.

C400



LEGEND

- Ex. Curb
- Ex. Centerline
- Ex. Fence
- Ex. Water Line
- Ex. Fire Line
- Ex. Irrigation Line
- Ex. Storm Drainage Line
- Ex. Sanitary Sewer Line
- Ex. Sanitary Sewer Force Main
- Ex. Swale Centerline
- Ex. Ditch Centerline
- Ex. Gas Line
- Ex. Overhead Elect. or Utility Line
- Ex. Underground Electrical
- Ex. Underground Fiber Optics
- Ex. Underground Telephone

PROPERTY LINE

- LANDSCAPE BUFFER LINE
- LOT LINE
- TF --- PROPOSED TREE PROTECTION
- SF --- PROP. SILT FENCE OR SILT WADDE

ABBREVIATIONS:
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).
 L/A BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).
 FYSB - FRONT YARD SETBACK / SYSB - SIDE YARD SETBACK / RYSB - REAR YARD SETBACK
 FFE - FINISHED FLOOR ELEVATION
 TM - FINISH GRADE AT TOP OF RETAINING WALL
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL
 S200 / S300 - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT
 DS - ROOF DOWNSPOUT CONNECTION
 SSW - SINGLE SOLID WHITE LINE / DSW - DOUBLE SOLID YELLOW LINE
 SDWL - SINGLE DASHED WHITE LINE

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SMMHS Tennis Courts

HCDE Bid 24-59

Sam Powell Trail
 Signal Mountain, TN
 37377

Date: 04/05/2024
 Drawn: CH/JP
 File: 2235

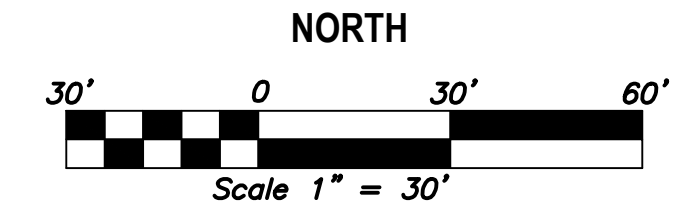
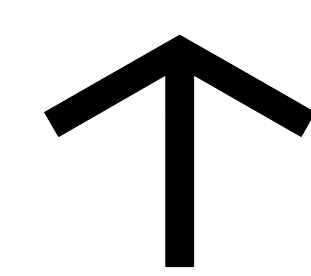
Revisions
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Key Plan
Bid Set

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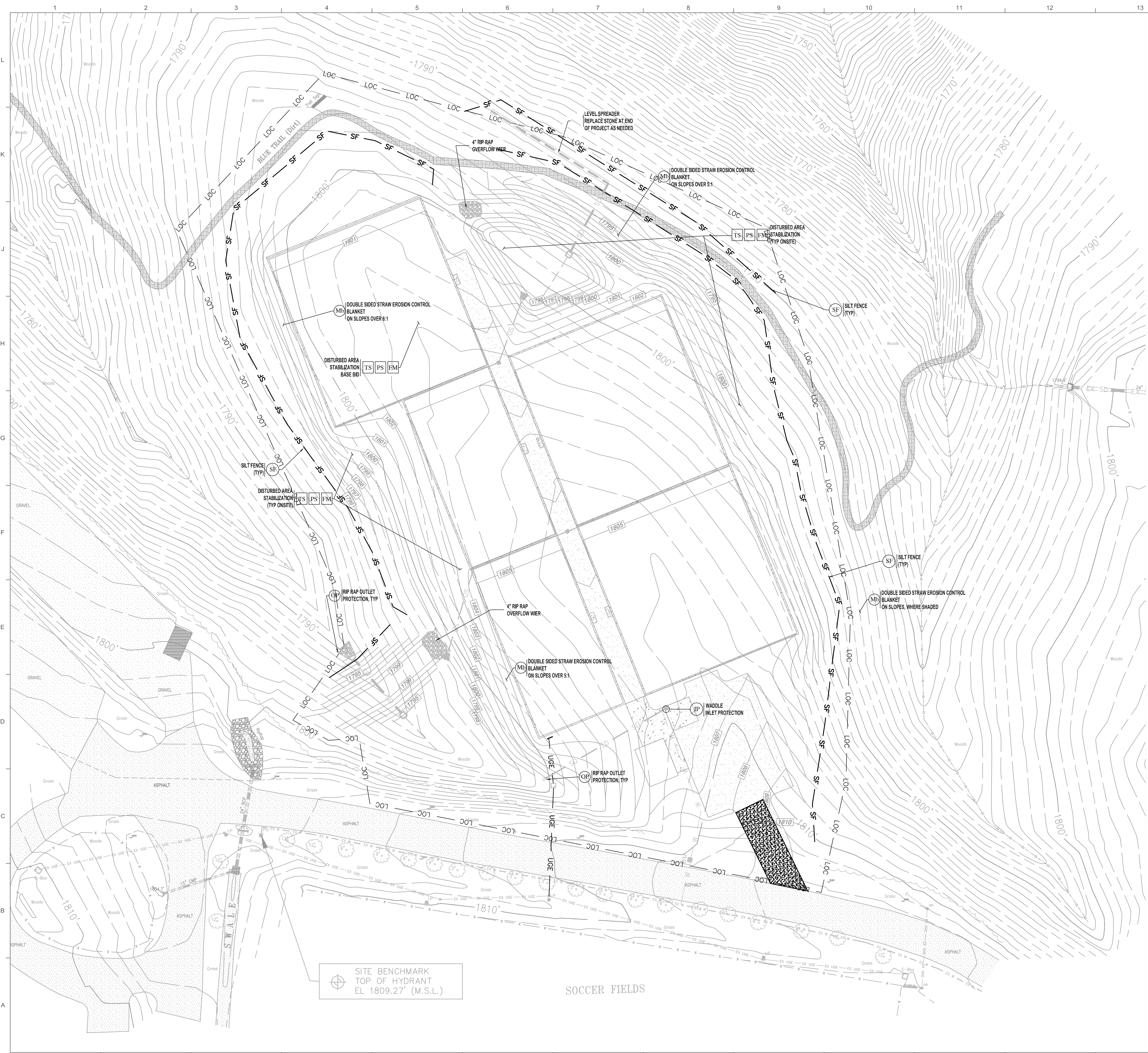


Title: **SEDIMENT & EROSION CONTROL PHASE I**

Scale:
 Sheet No.

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 Chattanooga, Tennessee 37404
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C501



LEGEND

---	Ex. Curb
---	Ex. Centerline
---	Ex. Fence
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Ditch Centerline
---	Ex. Gas Line
---	Ex. Overhead Elect. or Utility Line
---	Ex. Underground Electrical
---	Ex. Underground Fiber Optics
---	Ex. Underground Telephone
---	PROPERTY LINE
---	BUILDING SETBACK LINE
---	LOT LINE
---	CURB

---	LOC	PROP. LIMITS OF CONSTRUCTION
---	TF	PROPOSED TREE PROTECTION
---	D/S	PROPOSED SWALE CENTERLINE
---	D/S	PROPOSED DITCH CENTERLINE
---	W	PROP. WATER LINE
---	FL	PROP. FIRE LINE
---	IRR	PROP. IRRIGATION LINE
---	G	PROP. GAS LINE
---	SD	PROP. STORM DRAINAGE LINE
---	SS	PROP. SANITARY SEWER LINE
---	FM	PROP. SANITARY SEWER FORCE MAIN
---	OHE	PROP. OVERHEAD ELECT. OR UTILITY LINE
---	UGE	PROP. UNDERGROUND ELECTRICAL
---	UGFO	PROP. UNDERGROUND FIBER OPTICS
---	UGT	PROP. UNDERGROUND TELEPHONE
---	SF	PROP. SILT FENCE OR SILT WADDE

ABBREVIATIONS:
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH)
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH)
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH)
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 FYSB - FRONT YARD SETBACK / SYSB - SIDE YARD SETBACK / RYSB - REAR YARD SETBACK
 FFE - FINISHED FLOOR ELEVATION
 TM - FINISH GRADE AT TOP OF RETAINING WALL
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL
 SDCO / SSCO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT
 DS - ROOF DOWNSPOUT CONNECTION
 SSW - SINGLE SOLID WHITE LINE, DSW - DOUBLE SOLID YELLOW LINE
 SDWL - SINGLE DASHED WHITE LINE

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HCDE Bid 24-59

Sam Powell Trail
 Signal Mountain, TN
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Date: 04/05/2024
 Drawn: CH/JP
 File: 2235

Revisions:

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811
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NORTH

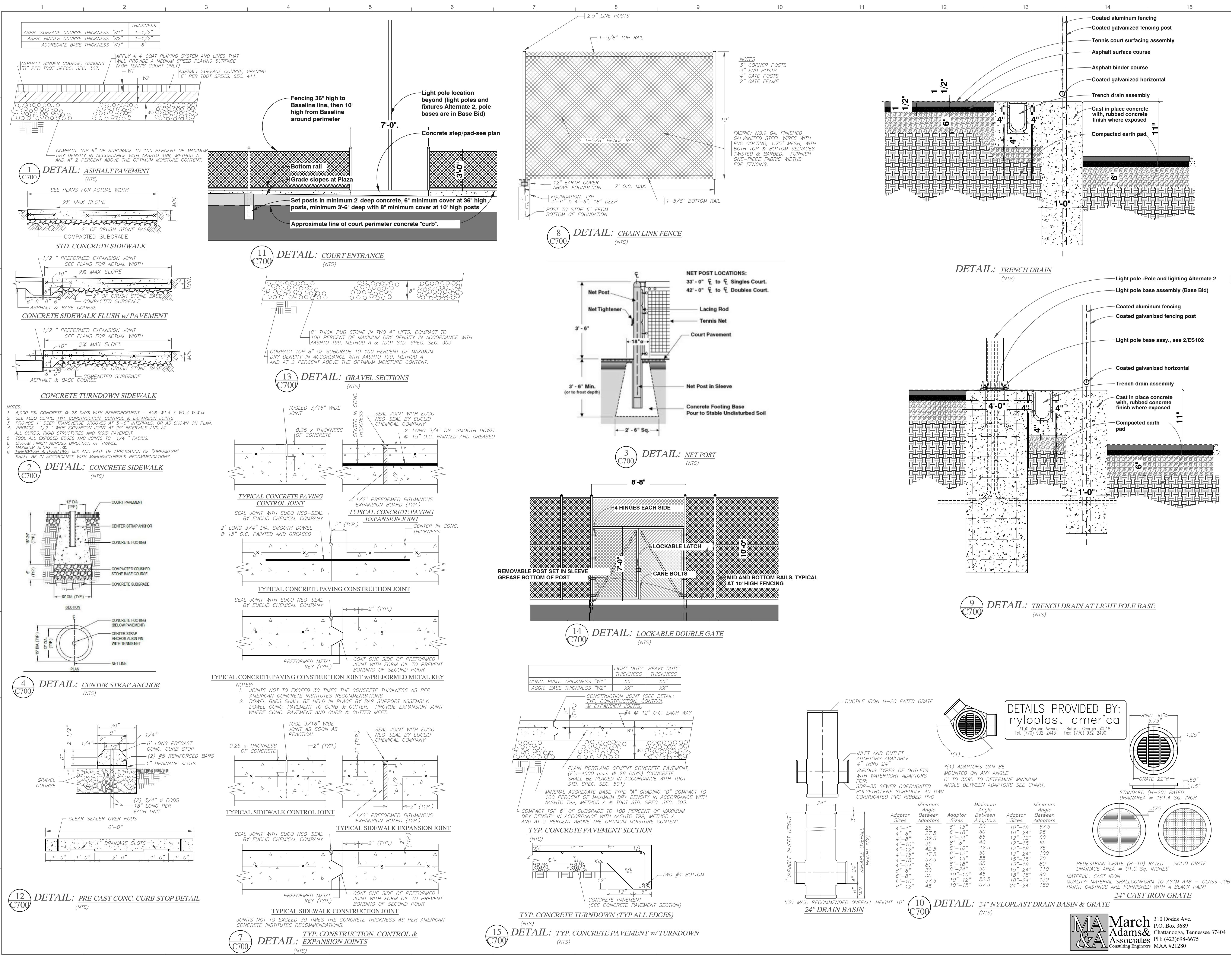
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Title: **SEDIMENT & EROSION CONTROL PHASE II**

Scale:
 Sheet No.

C502



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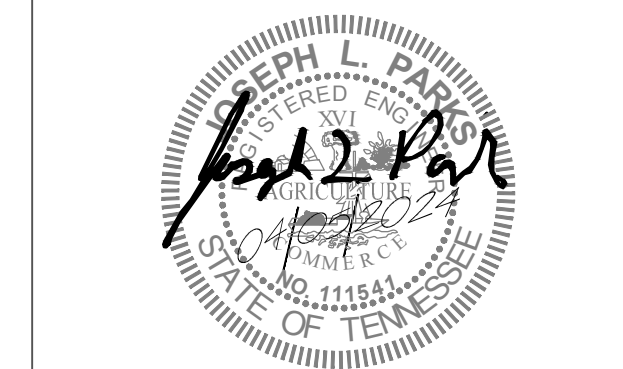
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 Drawn: CH/JP
 File: 2235

Revisions:

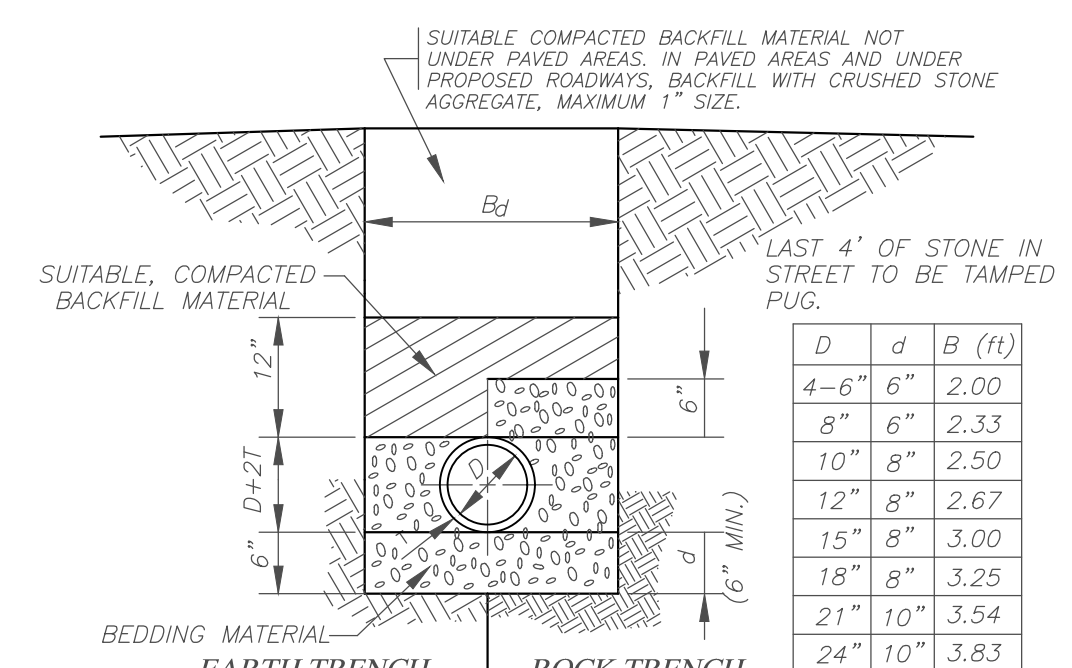
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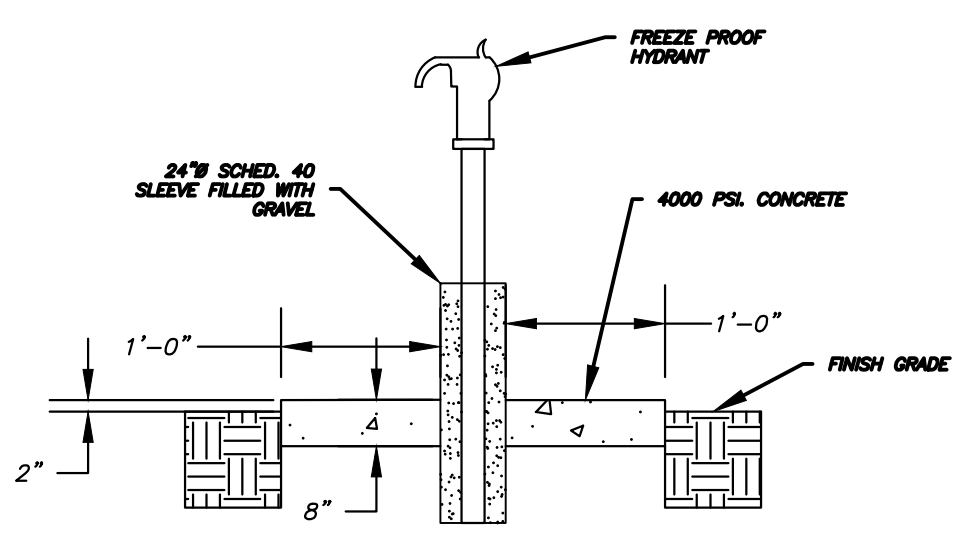


1 DETAIL: TYPICAL TRENCH AND BEDDING FOR DIP OR PVC GRAVITY PIPE
(NTS)

EARTH TRENCH BEDDING (CLASS "1", ASTM D 2321)
MATERIAL SHALL BE ANGULAR 1/4 TO 1 1/2 IN. GRADED STONE PAYMENT FOR THE BEDDING SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT PIPE FOR VARIOUS TYPES, SIZES, AND DEPTHS.

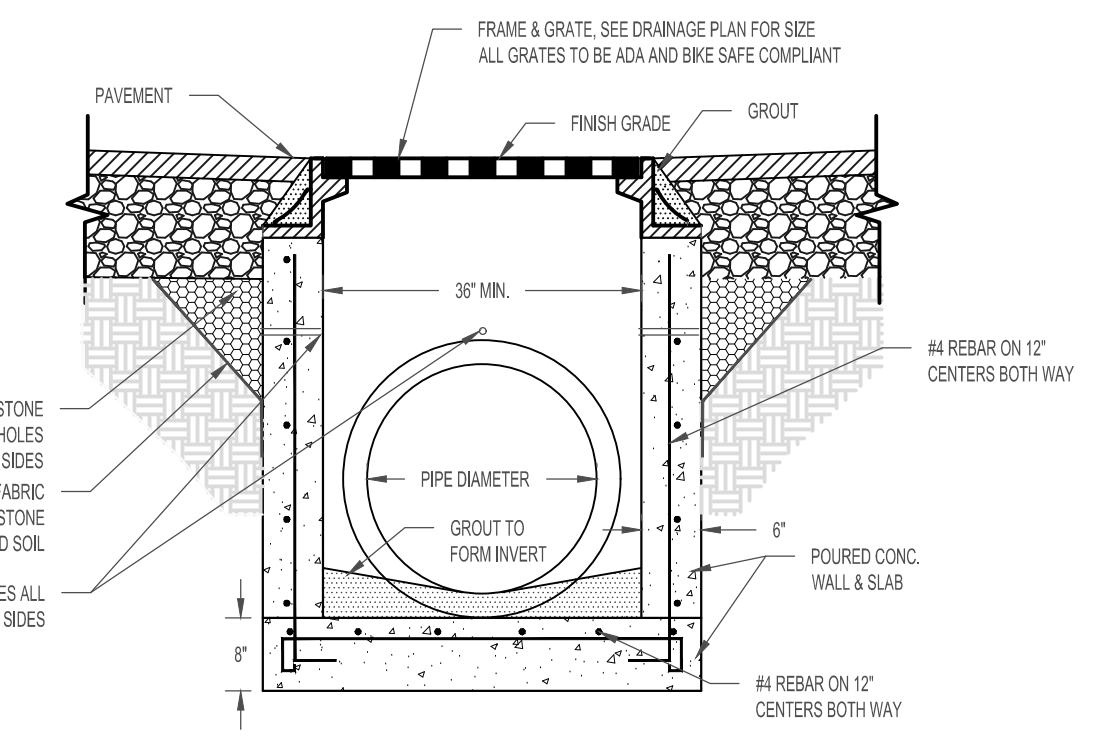
WET CONDITION BEDDING (CLASS "1", ASTM D2321)
BEDDING SHALL BE CRUSHED STONE WITH MAX. PARTICLE SIZE OF 1 1/2 IN., INCLUDING FINES FOR AREAS WHERE PIPE WILL BE INSTALLED BELOW EXISTING OR FUTURE GROUND WATER LEVELS AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. PAYMENTS SHALL BE BY UNIT PRICE PER LINEAR FOOT IN EXCESS OF EARTH TRENCH BEDDING.

ROCK TRENCH BEDDING
MATERIAL SHALL BE SAME AS FOR CLASS "1" BEDDING. QUANTITIES FOR ROCK TRENCH BEDDING ARE THE AMOUNTS IN EXCESS OF THOSE REQUIRED FOR EARTH TRENCH BEDDING.

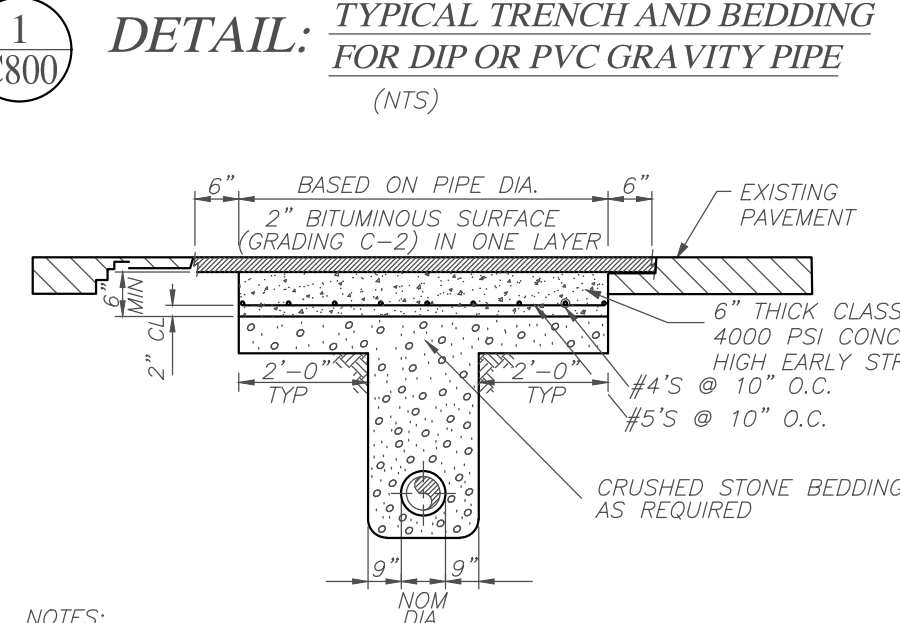


7 DETAIL: MONUMENT FREEZE PROOF HYDRANT
(NTS)

- NOTES:
- 6" CONCRETE BRICK MAY BE USED FOR WALL CONSTRUCTION.
 - 80ES/4 IN. DEPTH SHALL HAVE 12" WIDE POLYPROPYLENE PLASTIC STEPS PROTRUDE 4" MIN. FROM INSIDE OF STRUCTURE.
 - PRE-CAST CONCRETE MANHOLES MAY BE USED AS APPROVED BY THE ENGINEER.
 - STRUCTURES OVER 6" IN DEPTH SHALL BE PRE-CAST CONCRETE MANHOLES.

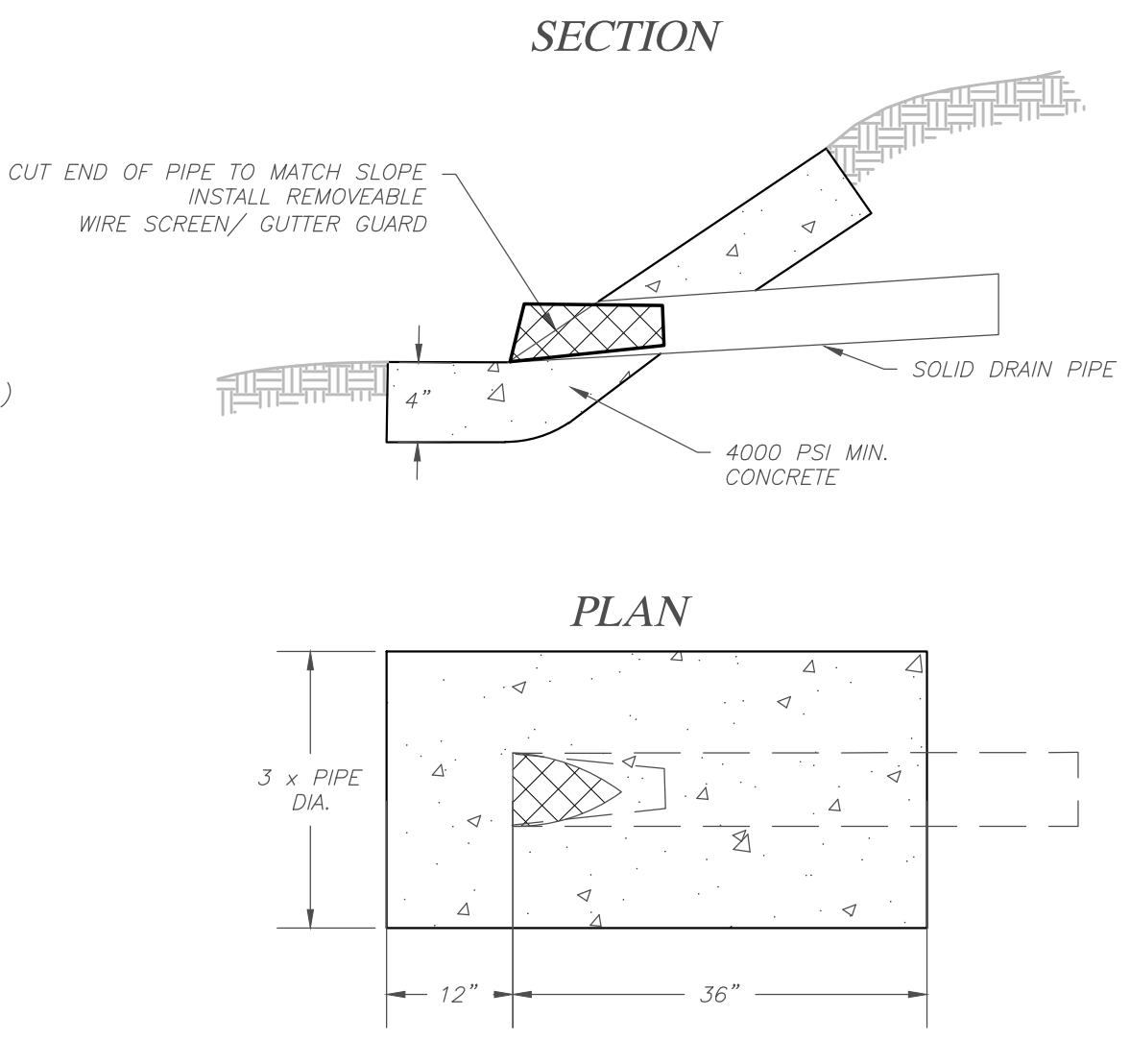


4 DETAIL: STANDARD CATCH BASIN (PAVEMENT AREAS)
(NTS)



- NOTES:
- ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HR. MINIMUM).
 - ON LONGITUDINAL CUTS 150 FT. IN LENGTH, THE CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "F" ASPHALT TOPPING OR 1 1/2" OF TYPE "E" ASPHALT TOPPING OR SURFACE COURSE.
 - THE CONTRACTOR SHALL REPLACE ALL OTHER DAMAGED PAVEMENT OUTSIDE OF LIMITS SHOWN AT HIS OWN EXPENSE.

2 DETAIL: PAVEMENT CUT & REPLACEMENT
(NTS)

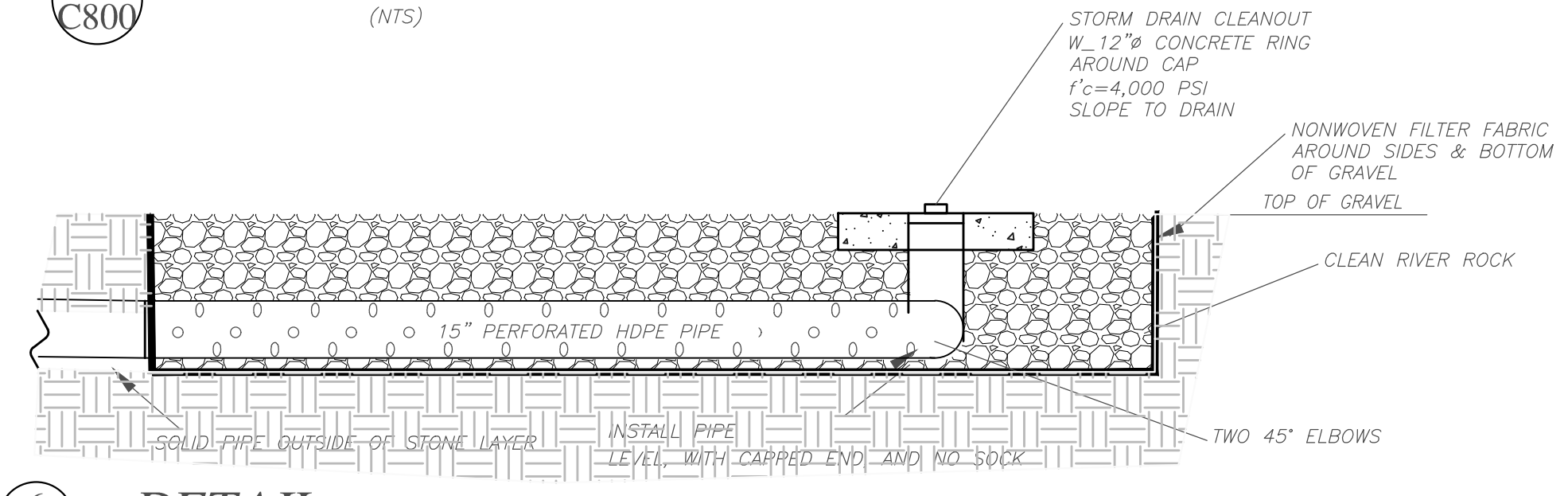


11 DETAIL: PIPE DAYLIGHT CONC. ENCASEMENT
(NTS)

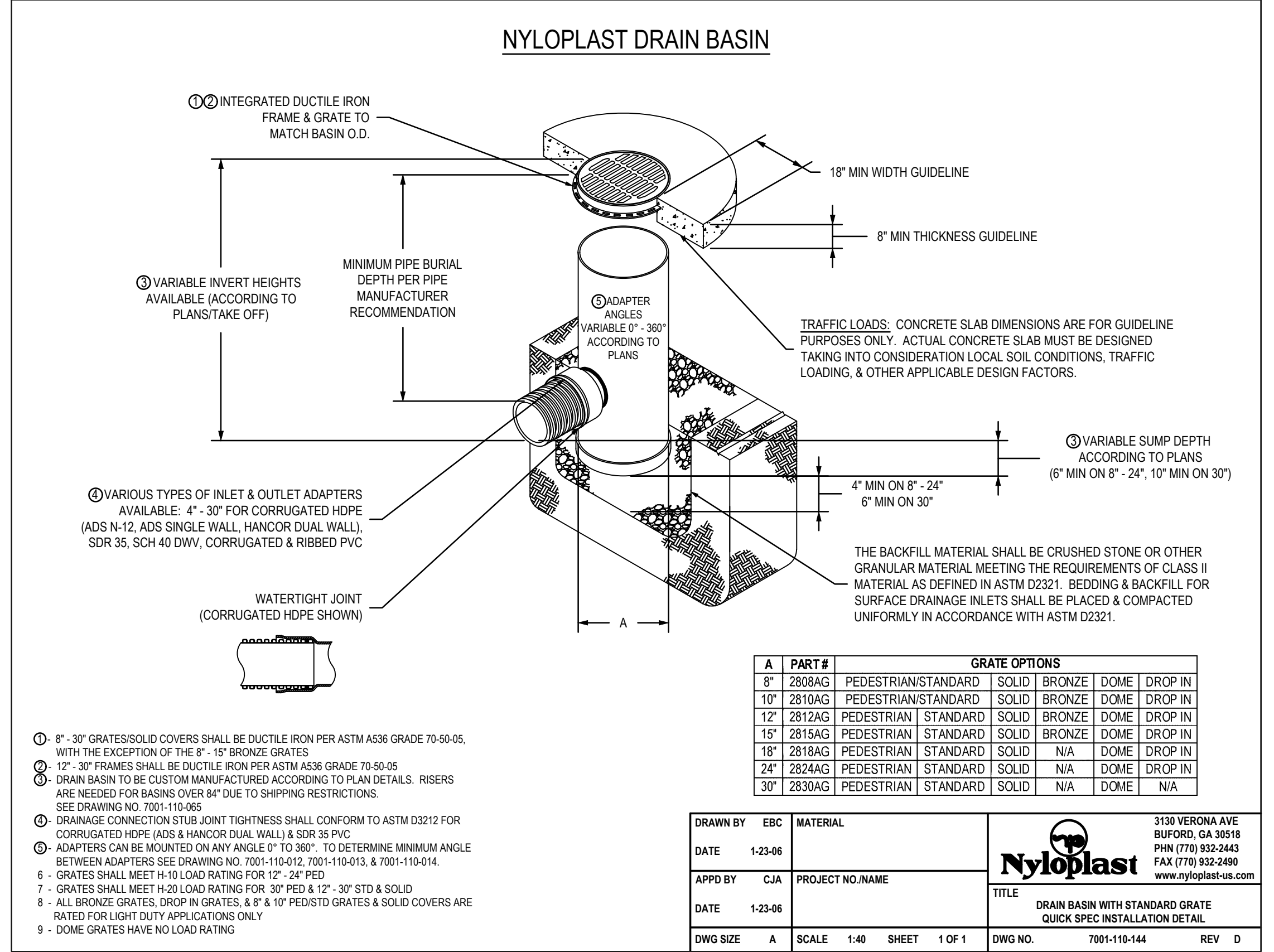
DET. AREA	OUTLET CONTROL STRUC.	ELEV. EL1	ELEV. EL2	ELEV. EL4	DIAMETER DIA#1 (INCHES)	DIAMETER DIA#2 (INCHES)	WIDTH W1 (FT-IN)	WIDTH W2 (FT-IN)	WIDTH W3 (FT-IN)	HEIGHT H1 (FEET)
1	A2	1794.5	1798.75	1799.75	6"	15"	5'-0"	3'-0"	4'-0"	6.25'
2	E2	1794.5	1799.75	1800.75	6"	15"	5'-0"	3'-0"	4'-0"	6.25'

NOTE: DRILL 1.5" ORIFICE IN END CAP OF SLOTTED HDPE

3 DETAIL: OUTLET CONTROL STRUCTURE
(NTS)



6 DETAIL: INFILTRATION STONE BED LEVEL SPREADER
(NTS)



- NOTES:
- 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 10" BRONZE GRATES.
 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-06.
 - DRAINAGE CONNECTION SUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2122 FOR CORRUGATED HDPE (ADS & HANCOCK DUAL WALL) & SDR 35 PVC.
 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 9° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
 - GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PED.
 - GRATES SHALL MEET H-20 LOAD RATING FOR 30" PED & 12" - 30" STD & SOLID.
 - ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PED/STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY.
 - DOMES GRATES HAVE NO LOAD RATING.

DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BURLINGAME, CA 94921 PH (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	1-23-06	PROJECT NO./NAME	
APPD BY	CJA	TITLE	DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL
DATE	1-23-06	DWG NO.	7001-110-144
DWG SIZE	A	SCALE	1:40
		SHEET	1 OF 1
		REV	D

SMMHS Tennis Courts

HCDE Bid 24-59

Sam Powell Trail
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Date: 04/05/2024
Drawn: CH/JP
File: 2235

Revisions:

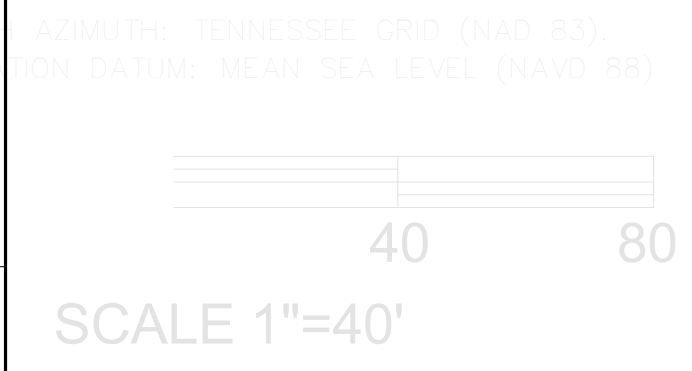
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Bid Set

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Title:
SITE DETAILS

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SITE BENCHMARK
TOP OF HYDRANT

1	Site Plan
A100	1" = 30'-0"



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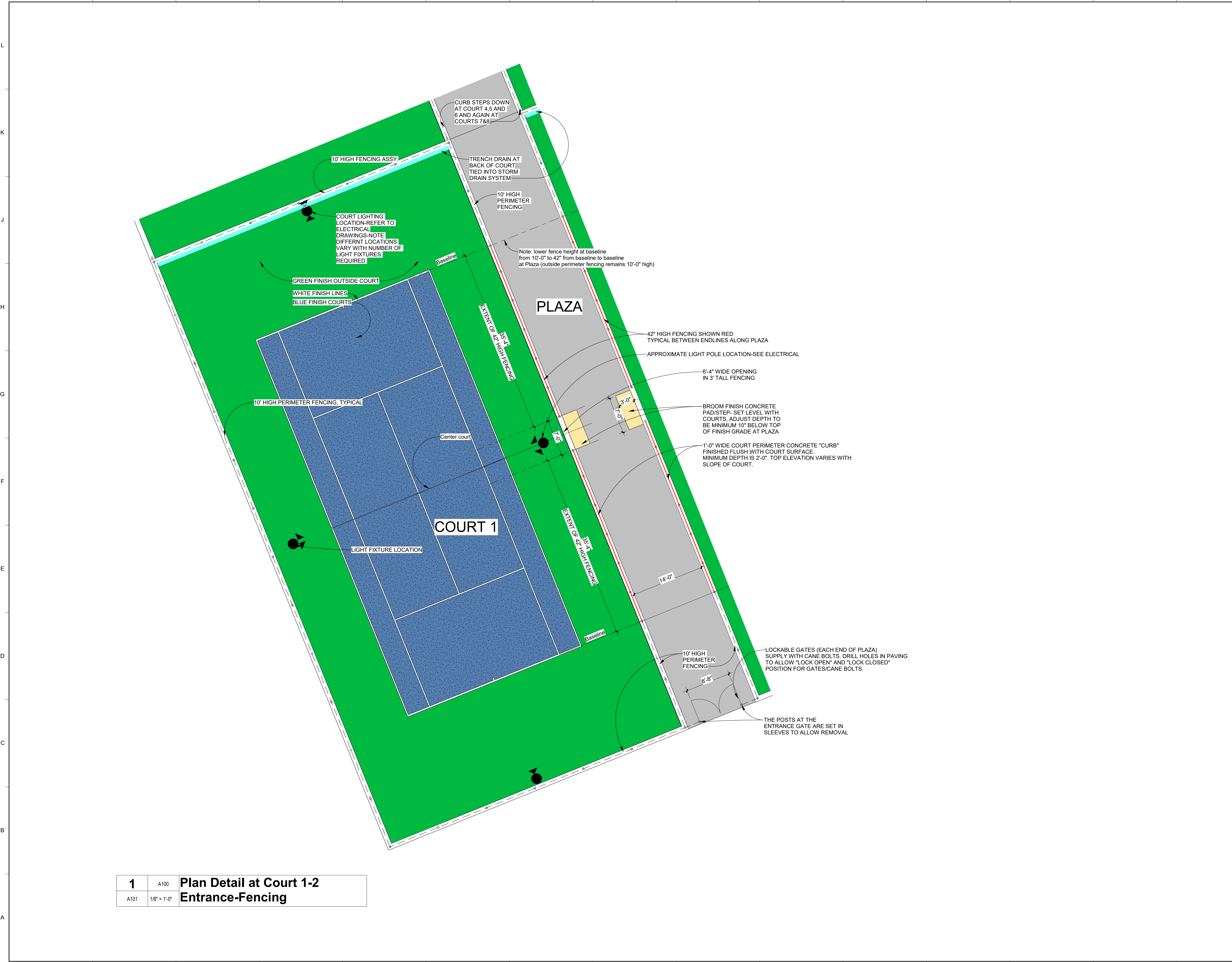
Title: **SITE PLAN**

Scale:

Sheet No.

A100

0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10" 11" 12" 13" 14" 15"



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Bid Set

Title:
Plan Detail-Typical Fencing and Court 1 Layout

Scale:

Sheet No.

A101

BASE BID

CONTRACTOR TO NOTE THAT ALL "A" AND "C" TYPE FIXTURES, ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO RUN EMPTY CONDUIT WITH PULL STRING AND STUB UP AT EACH LOCATION SHOWN FOR FUTURE INSTALLATION OF POLES AND LIGHTS. ALL "S" TYPE FIXTURES WORK TO BE DONE IN BASE BID. ALL POLE BASES EXCEPT FOR THE BACK TWO TENNIS COURTS (7 & 8) ARE TO BE PART OF BASE BID. COORDINATE WITH ARCHITECT.

ALTERNATE BID #1

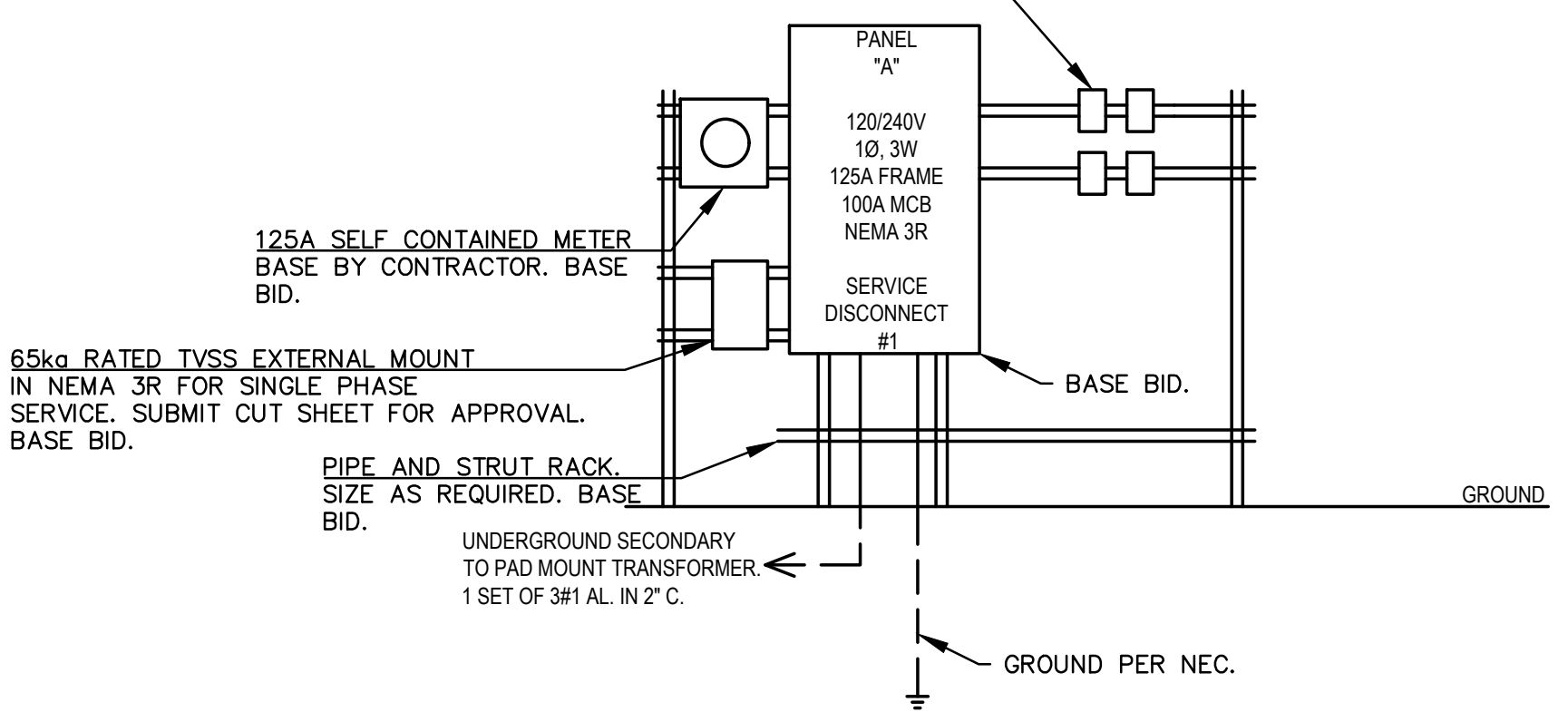
TO INCLUDE ALL BASE BID WORK AND INSTALLATION OF FIXTURE TYPES "A", "D", AND "C" WITH POLES AND WIRING AT COURTS 1-6. CONTRACTOR TO RUN EMPTY CONDUIT WITH PULL STRING AND STUB UP AND LOCATIONS SHOWN FOR TENNIS COURTS 7 & 8. COORDINATE WITH ARCHITECT.

ALTERNATE BID #2

TO INCLUDE ALL BASE BID AND ALTERNATE #1 WORK. INSTALLATION OF FIXTURE TYPES "A" AND "D" WITH POLES AND WIRING AT COURTS 7-8. COORDINATE WITH ARCHITECT.

- ELECTRICAL KEYED NOTES**
- PROPOSED LOCATION OF NEW EPB 120/240V 10 PAD MOUNTED TRANSFORMER TO SERVE TENNIS COURTS AT THIS LOCATION. COORDINATE ANY WORK WITH EPB.
 - UNDERGROUND SECONDARY LINES BY ELECTRICAL CONTRACTOR FROM TRANSFORMER TO MCB PANEL.
 - MAIN ELECTRICAL PANEL AND CONTROL SWITCHES FOR TENNIS COURT LIGHTING. MOUNT ON CONTRACTOR PROVIDED PIPE AND STRUT RACK. SEE RISER DIAGRAM.
 - UNDERGROUND ROAD BORE BY EPB.
 - SECURITY LIGHT MOUNTED ON WOOD POLE. PHOTOCELL CONTROL ONLY. SECURITY LIGHT IS INCLUDED IN THE BASE BID.
 - COURT LIGHTS TO BE MOUNTED AT 25'. MANUAL SWITCH CONTROL ONLY.

4 TWO HOUR TIMER OPERATED SWITCHES FOR TENNIS COURT LIGHTING. PROVIDE WEATHERPROOF LOCKED COVER FOR SWITCHES. PART OF ALTERNATE BIDS. SEE ALTERNATE BID #1 & #2.



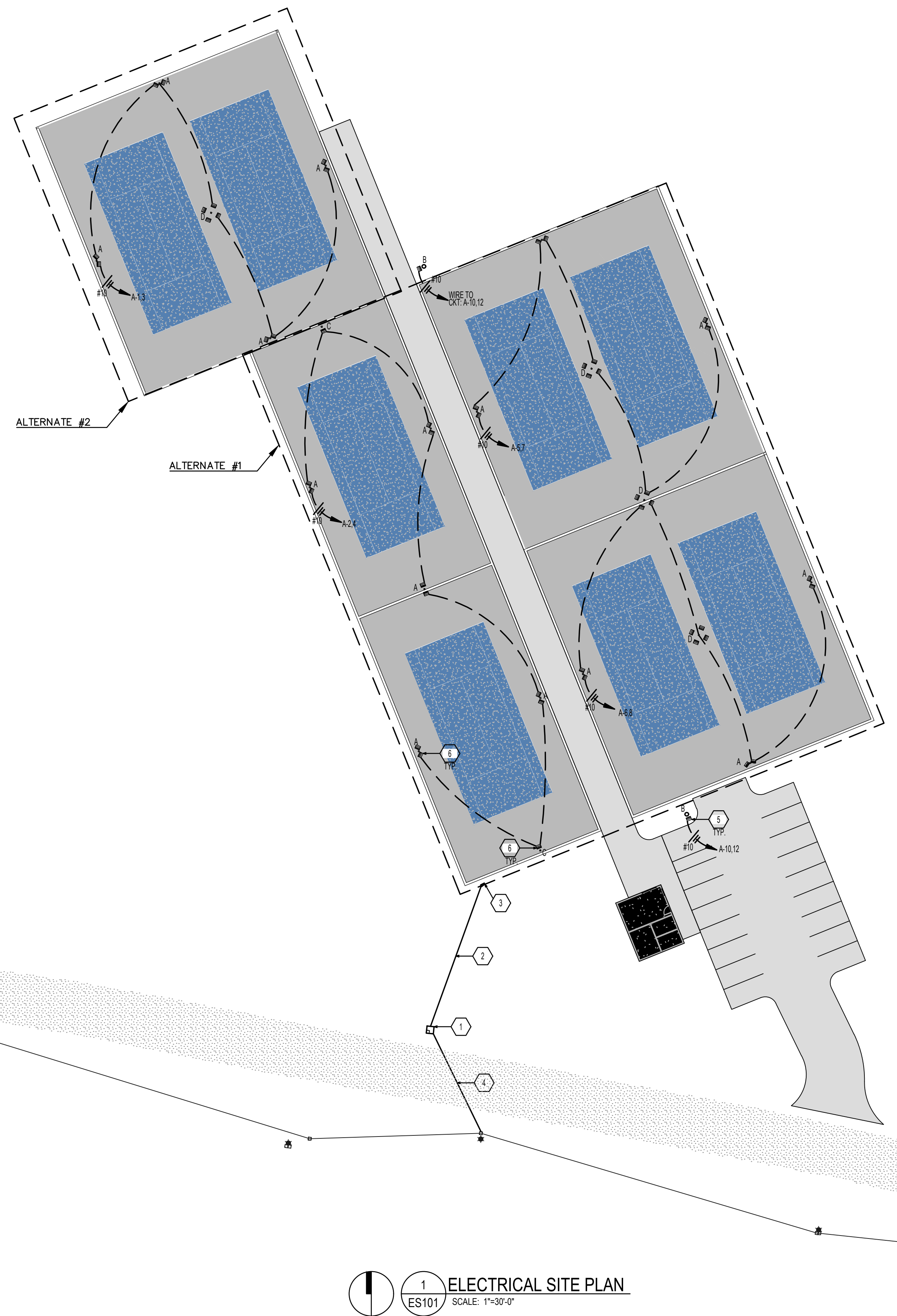
2 ELECTRICAL RISER DIAGRAM
ES101 SCALE: N.T.S.

Label	Arrangement	MODEL NUMBER	[MANUFAC]	DESCRIPTION
A	TWO HEADS ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
C	ONE HEAD ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
D	FOUR HEAD ON POLE	RSXF2 LED P8 50K NFL MVOLT IS DDBXD	LITHONIA LIGHTING	5000K COLOR TEMP., NARROW FLOOD DISTRIBUTION, MULTI-VOLTAGE. SEE NOTE 4.
B	ONE HEAD ON POLE	ESXF4 ALO SWH2 YS DDB FRWB DDBXD	LITHONIA LIGHTING	18000L, 5000K CCT, FLOOD LIGHT, MULTI-VOLTAGE. WITH INTEGRAL PHOTOCELL SEE NOTE 2 BELOW.

SCHEDULE NOTES:

- CONTACT BRAD WHEELIUS WITH LIGHTING TRENDS AT 423-816-2651.
- CONTRACTOR TO PROVIDE A CLASS 4 WOOD POLE FOR FIXTURE "S" OF SUFFICIENT LENGTH FOR LIGHT TO BE MOUNTED AT 20' A.F.F. THE POLE IS TO BE DIRECT BURIAL.
- CONTRACTOR TO PROVIDE ALL MOUNTING DEVICES AND ACCESSORIES NEEDED FOR PROPER INSTALLATION OF ABOVE LISTED FIXTURES.
- POLE PART# SSS 25 SC T20 DDBXD. FOR THE 4@90° BULLHORNS PART# BS49 T20 TD20 DDBXD. FOR THE 2@90° BULLHORNS PART# BS28 T20 TD20 DDBXD.

PANEL SCHEDULE												
NAME: A						VOLTAGE: 240/120, 1PH., 3W.						
FRAME: 125A						FEEDS FROM: TRANSFORMER						
MAIN: 100A MCB						PROVIDE NEUTRAL BAR						
TRIM: SURFACE, NEMA 3R						PROVIDE GROUND BAR						
AIC RATING: FULLY RATED AT 25KVA												
CODE	CKT.	LOAD	TRIP	PLS	A	B	PLS	TRIP	LOAD	CKT	CODE	
	1	COURTS 1 & 2	20	2	815					2		
	3				815					4		
	5	COURTS 5 & 6	20	2	815					6		
	7				815		2	20	COURTS 3 & 4	8		
	9	SPARE	20	1	326					10		
	11	SPARE	20	1						12		
	13	SPARE	20	1						14		
	15	SPACE ONLY								16		
	17	SPACE ONLY								18		
	19	SPACE ONLY								20		
	21	SPACE ONLY								22		
	23	SPACE ONLY								24		
	25	SPACE ONLY								26		
	27	TVSS	30	2						28		
	29									30		
L - RUN CIRCUIT THRU CONTACTOR.					PHASE LOAD TOTAL		PROVIDE TYPEWRITTEN SCHEDULES WITH PLASTIC COVER. CIRCUIT NAMES TO BE EXACTLY AS LISTED HERE. PROVIDE ENGRAVED NAMEPLATE ON FACE OF PANEL.					
					A	B						
					3,586	3,586						
TOTAL CONNECTED LOAD:					7.2	KVA	OR	29.9				
							AMPS					



1 ELECTRICAL SITE PLAN
ES101 SCALE: 1"=30'-0"
NORTH



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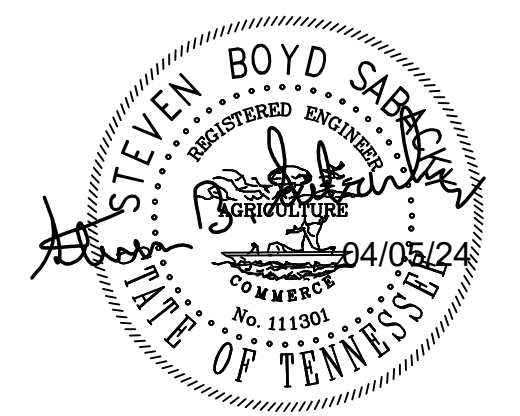
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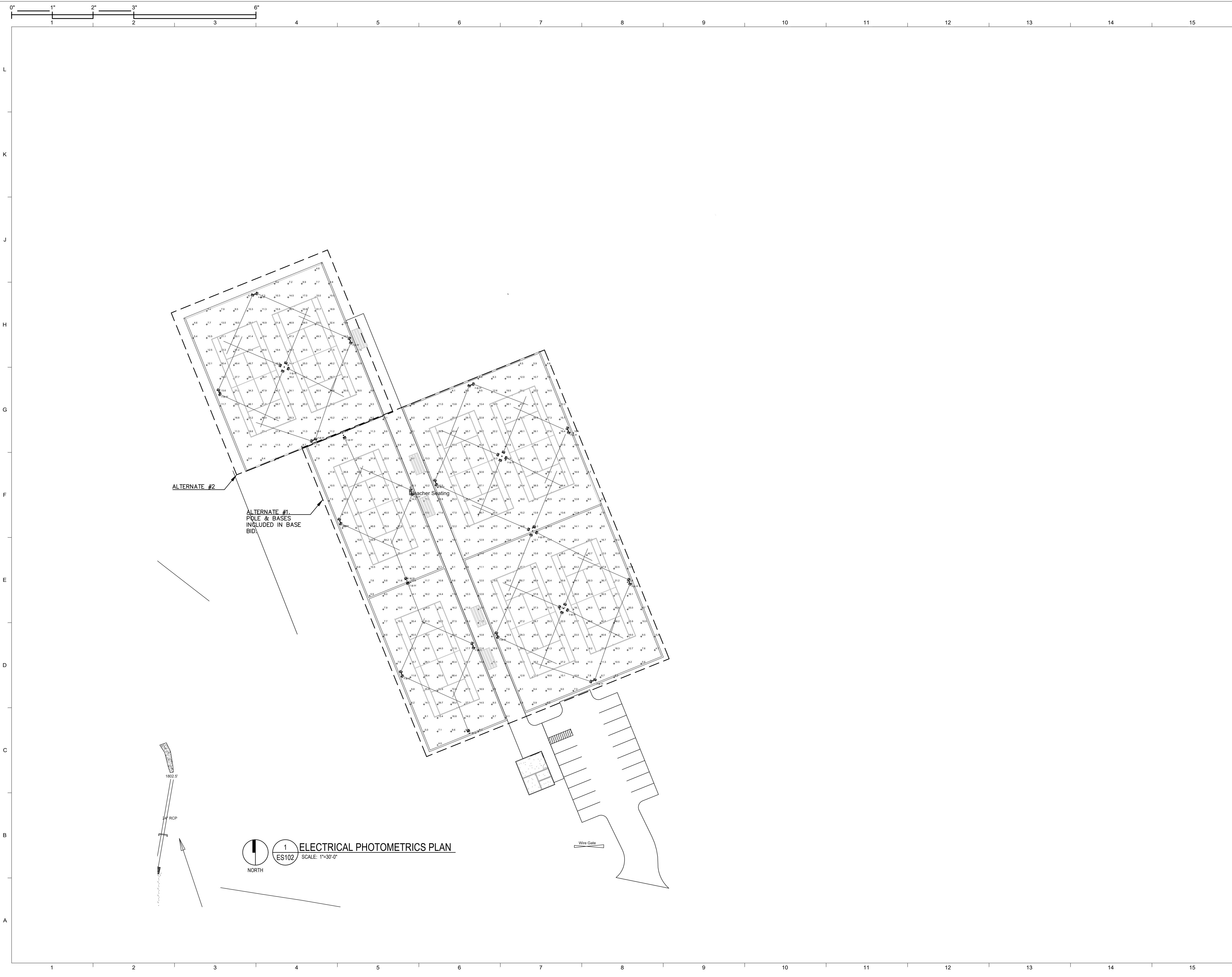


ELECTRICAL SITE PLAN

Scale:

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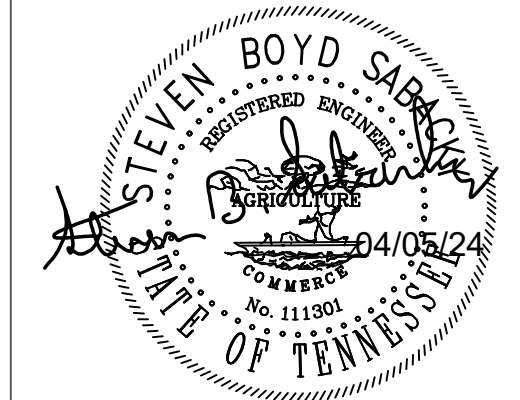
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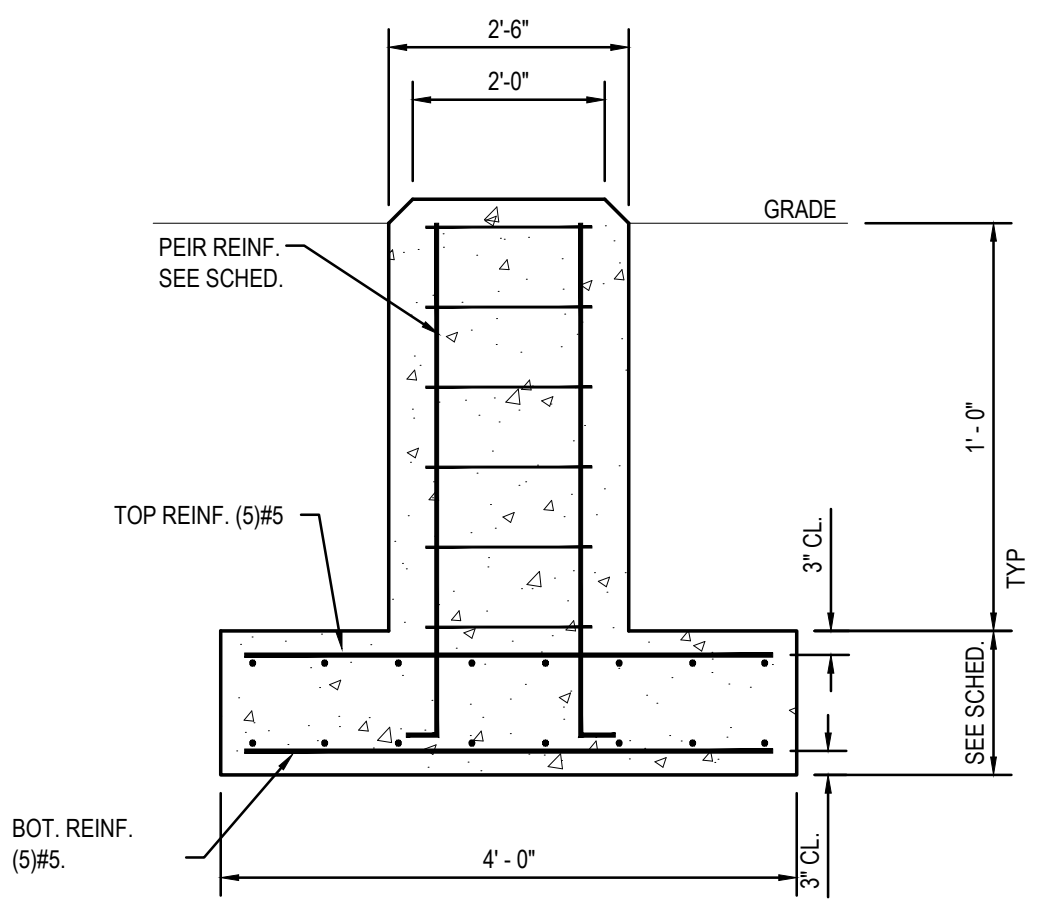
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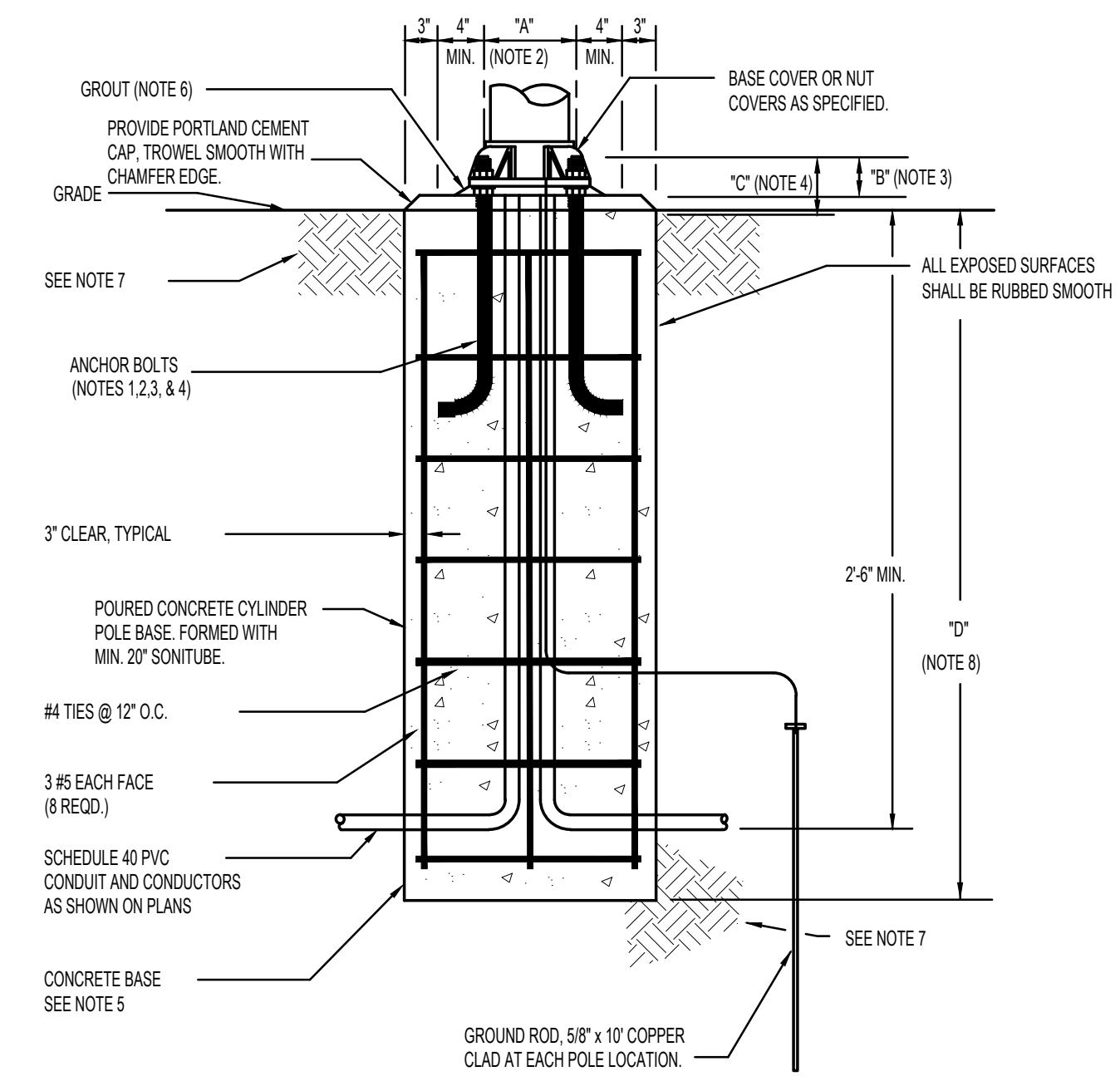
ES102

POLE HEIGHT	SPREAD FOOTING	
	100 MPH WIND	130 MPH WIND
≤15'	3'-0" x 3'-0" x 1'-4" W#5 E.W. BOTTOM PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c	4'-0" x 4'-0" x 1'-4" W#5 E.W. BOTTOM PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c
≤30'	4'-0" x 4'-0" x 1'-6" W#4 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c	7'-0" x 7'-0" x 1'-6" W#4 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c
≤40'	6'-0" x 6'-0" x 1'-6" W#4 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c	7'-0" x 7'-0" x 1'-6" W#5 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c
≤50'	7'-0" x 7'-0" x 1'-6" W#4 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c	8'-0" x 8'-0" x 1'-6" W#5 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c
≤60'	8'-0" x 8'-0" x 1'-6" W#5 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c	10'-0" x 10'-0" x 1'-6" W#5 @ 12" o/c BOT. E.W. PER REINF. 8#5'S VERT. W#3 TIES @ 12" o/c



SPREAD FOOTING FOR LIGHT POLE

- DETAIL NOTES:
- THIS DETAIL IS FOR SHALLOW APPLICATIONS WHERE ROCK IS ENCOUNTERED.
 - RUBBED FINISH TO CONCRETE.
 - REBAR SIZE AND NUMBERS BY OTHERS.



- DETAIL NOTES:
- POLE SHALL BE PROVIDED WITH MINIMUM OF FOUR ANCHOR BOLTS WITH DOUBLE NUTS, DOUBLE FLAT WASHERS, AND ONE LOCK WASHER SIZED TO MATCH EACH ANCHOR BOLT. ALL NUTS, WASHERS, AND BOLTS SHALL BE HOT DIPPED GALVANIZED.
 - ANCHOR BOLT GAGE, DIMENSION "A", SHALL BE AS REQUIRED BY POLE MANUFACTURER. EXACT LOCATION OF ANCHOR BOLTS SHALL BE DETERMINED BY CONTRACTOR AFTER POLES ARE PURCHASED AND BEFORE CONCRETE BASE IS CONSTRUCTED.
 - BOLT PROJECTION, DIMENSION "B", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS THAN 3".
 - ANCHOR BOLT EMBEDMENT, DIMENSION "C", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS THAN 12". ANCHOR BOLT DIAMETER SHALL NOT BE LESS THAN 3/4".
 - CONCRETE BASE SHALL BE OF MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, W/C RATIO OF .55. REINFORCING BARS SHALL BE DEFORMED STEEL, GRADE 60.
 - GROUT SHALL BE PRE-BAG MIX NON-SHRINK, NON-METALLIC, 5000 PSI MINIMUM, ONE TO TWO INCHES THICK.
 - SOIL AROUND FOUNDATION BASE SHALL BE NON-ORGANIC GRANULAR SOIL COMPACTED TO 95% STANDARD PROCTOR (ASTM D-698), TOP 4" TO 6" MAY BE TOP SOIL OR PAVEMENT.
 - FOUNDATION EMBEDMENT DEPTH, DIMENSION "D", SHALL BE 15 PERCENT OF POLE HEIGHT ABOVE GRADE, MINIMUM OF 6'-0".
 - RUBBED FINISH TO CONCRETE.
 - REBAR SIZE AND NUMBERS BY OTHERS.

1 CONCRETE POLE BASE DETAIL (TENNIS COURT LIGHTING)
ES102 SCALE: N.T.S.



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SMMHS Tennis Courts

HCDE Bid 24-59

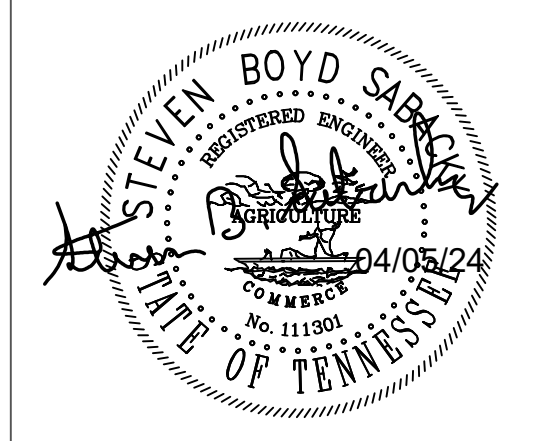
**Sam Powell Trail
Signal Mountain, TN
37377**

Date: 04/05/24
Drawn: DSA
File: 2235

Revisions:

Key Plan
Bid Set

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Title:
**ELECTRICAL
SITE DETAILS**

Scale:
Sheet No.

ES103