

**GENERAL NOTES:**

- BLOCK MAP: 7-12-05-001.00  
7-12-01-072.01  
7-11-08-149.00  
7-11-04-214.00
- PRIMARY SITE ADDRESS IS 650 HOWARD ST.
- OWNERS: CITY OF SPARTANBURG  
145 W. BROAD ST.  
SPARTANBURG, SC 29306  
AND  
SPARTANBURG COUNTY SCHOOL DISTRICT SEVEN  
610 DUPRE DRIVE  
SPARTANBURG, SC 29302
- SURVEYOR: LAVENDER, SMITH & ASSOCIATES  
2900 E. MAIN ST.  
SPARTANBURG, SOUTH CAROLINA 29307  
(864) 579-0067

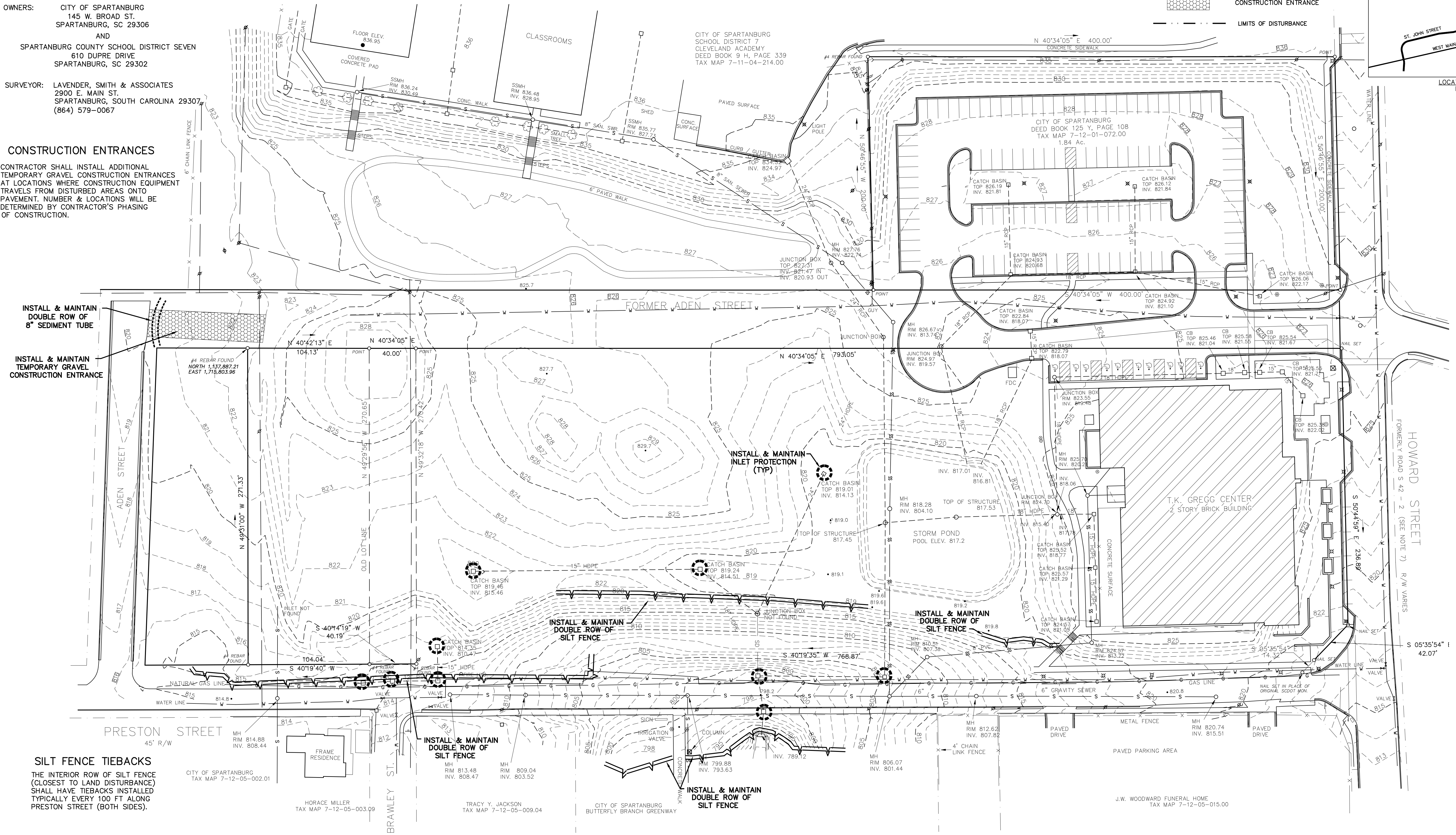
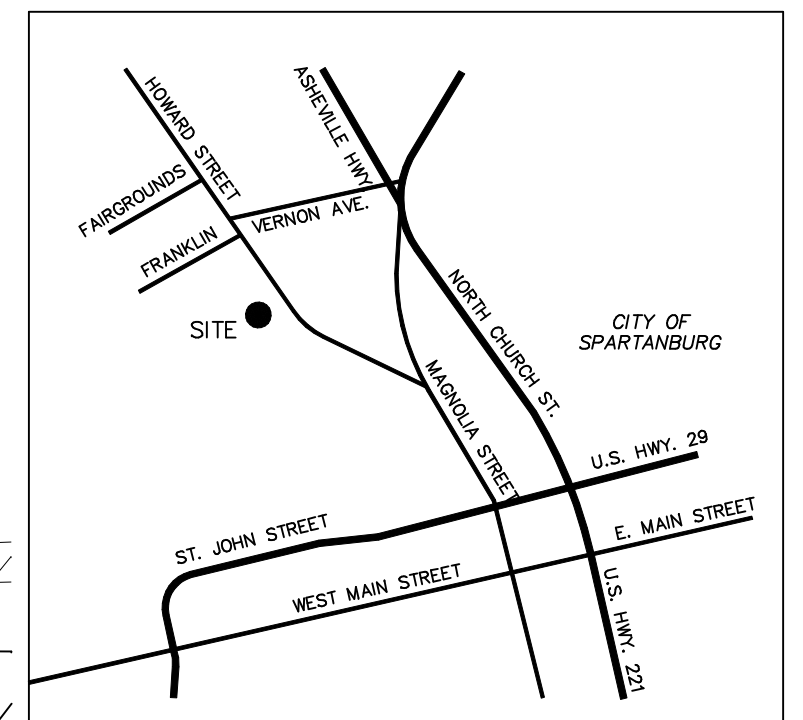
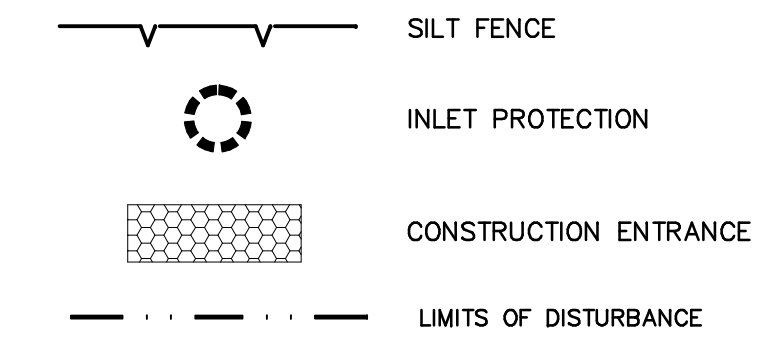
**CONSTRUCTION ENTRANCES**

CONTRACTOR SHALL INSTALL ADDITIONAL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES AT LOCATIONS WHERE CONSTRUCTION EQUIPMENT TRAVELS FROM DISTURBED AREAS ONTO PAVEMENT. NUMBER & LOCATIONS WILL BE DETERMINED BY CONTRACTOR'S PHASING OF CONSTRUCTION.

**INLET PROTECTION**

ALL STORMWATER STRUCTURES SHALL BE PROVIDED INLET PROTECTION. THIS APPLIES TO BOTH NEW AND EXISTING STRUCTURES, WHETHER SHOWN ON THIS PLAN OR NOT.

**EROSION CONTROL LEGEND**



INSTALL & MAINTAIN DOUBLE ROW OF 8" SEDIMENT TUBE

INSTALL & MAINTAIN TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

INSTALL & MAINTAIN INLET PROTECTION (TYP)

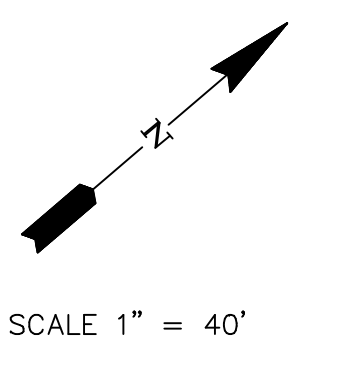
INSTALL & MAINTAIN DOUBLE ROW OF SILT FENCE

INSTALL & MAINTAIN DOUBLE ROW OF SILT FENCE

INSTALL & MAINTAIN DOUBLE ROW OF SILT FENCE

INSTALL & MAINTAIN DOUBLE ROW OF SILT FENCE

**SILT FENCE TIEBACKS**  
THE INTERIOR ROW OF SILT FENCE (CLOSEST TO LAND DISTURBANCE) SHALL HAVE TIEBACKS INSTALLED TYPICALLY EVERY 100 FT ALONG PRESTON STREET (BOTH SIDES).



NO.	DATE	REVISION	BY

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**BLACKWOOD ASSOCIATES INC.**  
CONSULTING ENGINEERS  
PO BOX 366 • SPARTANBURG, SC 29304 • (864) 583-5432 • (FAX) 583-5434

**DR. TK GREGG GREENSPACE**  
**SITE PREPARATION PLAN**  
650 HOWARD STREET, SPARTANBURG, SC

DRAWN:	WAB	SHEET NO.
CHECKED:	WAB	<b>CV1.1</b>
APPROVED:	WAB	
DATE:	01/28/2022	
JOB NO.	2112	

**INLET PROTECTION**

ALL STORMWATER STRUCTURES SHALL BE PROVIDED INLET PROTECTION. THIS APPLIES TO BOTH NEW AND EXISTING STRUCTURES, WHETHER SHOWN ON THIS PLAN OR NOT.

**SLOPE REQUIREMENTS**

CONTRACTOR SHALL GRADE THE TOPS OF ALL BANKS TO ENSURE POSITIVE DRAINAGE AWAY FROM THE SLOPE INTO THE SITE. NO STORMWATER RUN-OFF SHALL BE ALLOWED TO OVERTOP A SLOPE.

CONTRACTOR SHALL TRACK ALL SLOPES BY RUNNING A TRACKED VEHICLE PERPENDICULAR TO THE SLOPE, FROM TOE TO TOP, PRIOR TO AND MATTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL RUTS, RILLS, AND EROSION DAMAGE ON SLOPES FOR DURATION OF THE PROJECT.

CONTRACTOR SHALL TRACK SLOPES, APPLY GRASS, & INSTALL VEGETATIVE MATTING WITHIN SEVEN DAYS OF ACHIEVING GRADE.

**GRASS & VEGETATIVE MATTING**

EXTERIOR PROJECT SLOPES SHALL BE GRADED AND MATTED AS SOON AS POSSIBLE TO PROVIDE STABILIZATION & SEDIMENT CONTROL.

**FINAL STABILIZATION NOTES:**

ALL SLOPES SHALL BE GRASSED IN ACCORDANCE WITH THE PERMANENT GRASS SCHEDULE PRIOR TO INSTALLATION OF THE VEGETATIVE MATTING. SLOPES SHALL BE FRESHLY TRACKED PRIOR TO SEEDING.

AFTER EXTERIOR SLOPES ARE STABILIZED AND THE CITY CONCURS, THE PERIMETER SILT FENCE SHALL BE REMOVED, ACCUMULATED SILT EVENLY SPREAD, AND DISTURBED AREAS GRASSED.



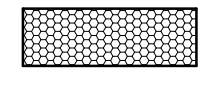

**BALANCED SITE NOTE:**

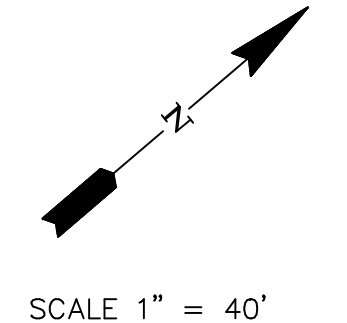
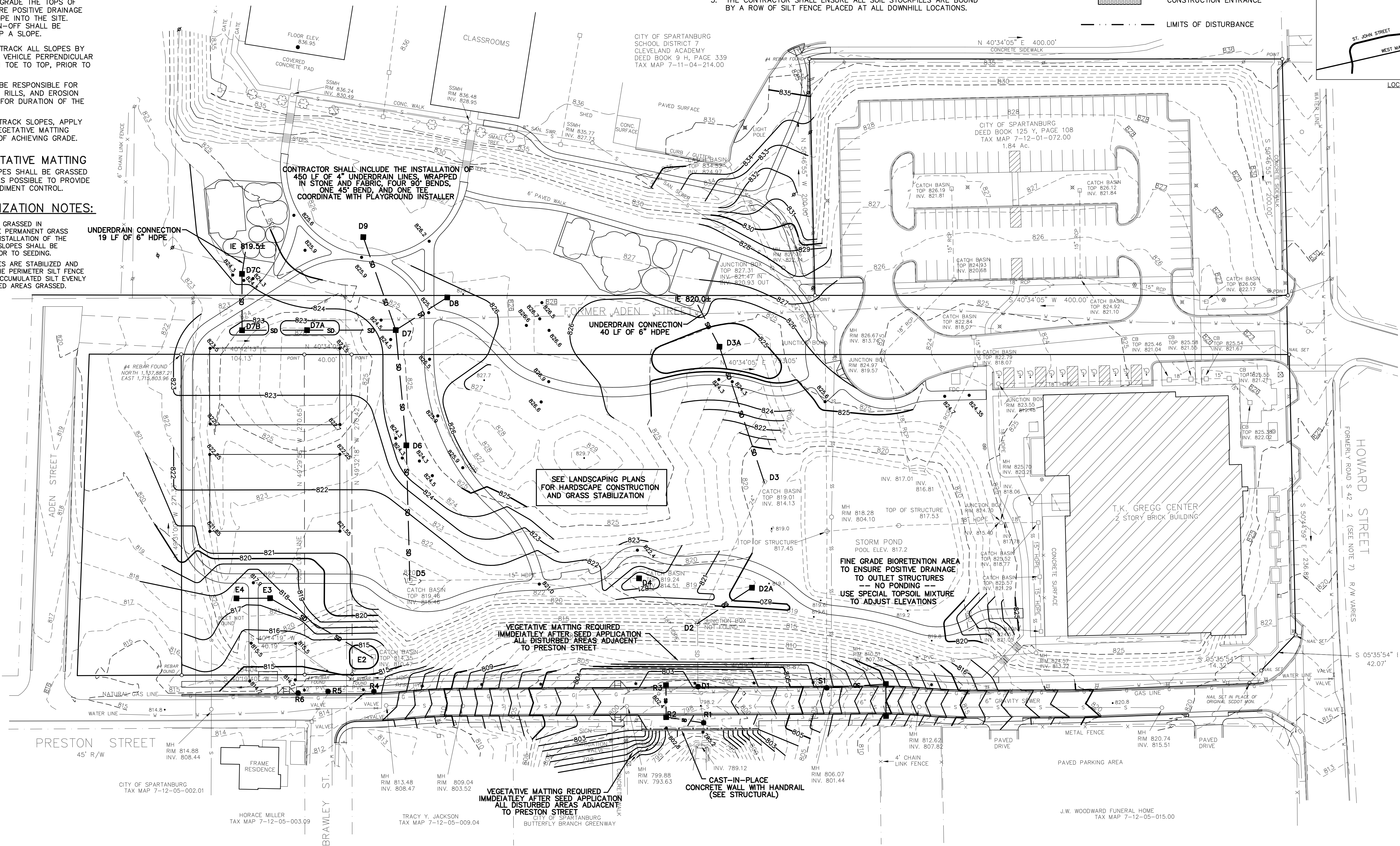
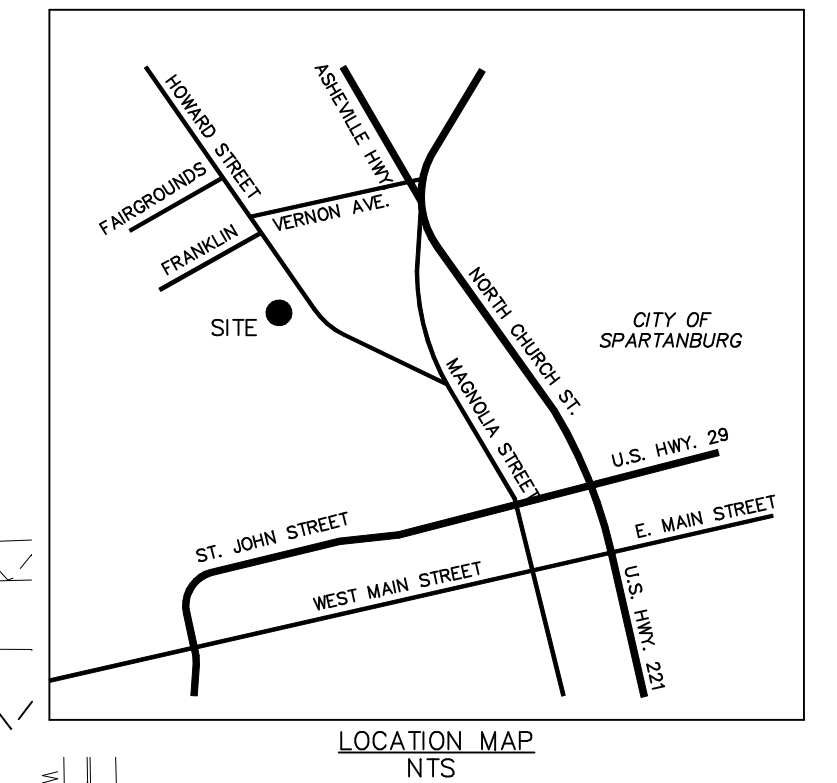
THE INTENT OF THE PROJECT IS TO OBTAIN A BALANCED SITE IN TERMS OF GRADING OPERATIONS. FIELD ADJUSTMENTS SHALL BE MADE IN COORDINATION WITH THE OWNER & ENGINEER.

**CITY PERMIT NOTES**

1. THE SITE CONTRACTOR SHALL PROVIDE A PORTABLE TOILET IN AN AREA THAT IS NOT ADJACENT TO A WATERWAY OR STORM DRAINAGE.
2. THE CONTRACTOR SHALL PROVIDE A PLACE FOR CONCRETE TRUCKS TO WASHOUT AND THE WASHOUT IS TO BE BURIED ONSITE UNTIL CONSTRUCTION IS COMPLETE. WHEN CONSTRUCTION IS COMPLETED, THE WASTE SHALL BE HAULED OFF TO A LANDFILL.
3. THE CONTRACTOR SHALL ENSURE ALL SOIL STOCKPILES ARE BOUND BY A ROW OF SILT FENCE PLACED AT ALL DOWNHILL LOCATIONS.

**EROSION CONTROL LEGEND**

-  SILT FENCE
-  INLET PROTECTION
-  TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
-  LIMITS OF DISTURBANCE



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 PO BOX 366 • SPARTANBURG, SC 29304 • (864) 583-5432 • (FAX) 583-5434

**DR. TK GREGG GREENSPACE**  
**GRADING AND**  
**STORM DRAINAGE PLAN**  
 650 HOWARD STREET, SPARTANBURG, SC

DRAWN:	WAB	SHEET NO. <b>CV1.2</b>
CHECKED:	WAB	
APPROVED:	WAB	
DATE:	01/28/2022	
JOB NO.	2112	

### SCDHEC GRADING NOTES

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET 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.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
  - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
  - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 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, FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF 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 TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCRT00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATA OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V) OR GREATER WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASINS, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
  - WASHWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
  - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
  - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SO'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT UNLESS PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

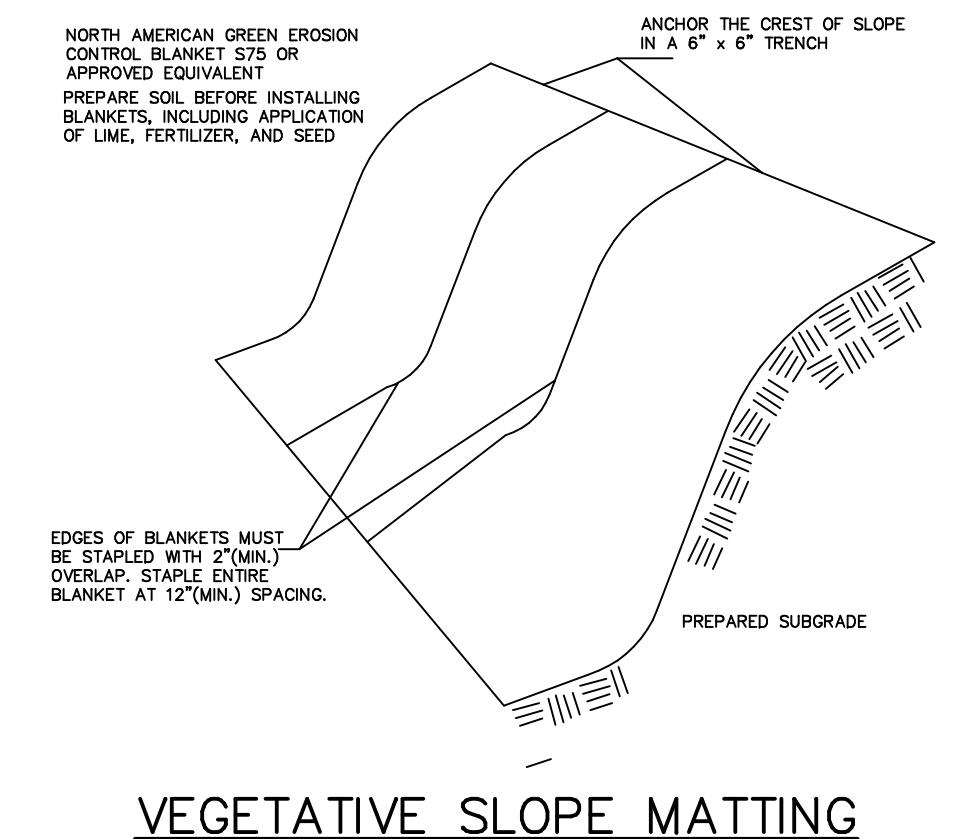
### EROSION CONTROL SEQUENCE OF EVENTS

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH CITY OF SPARTANBURG AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVED LETTER FROM SCDHEC BEFORE SCHEDULING THIS MEETING.

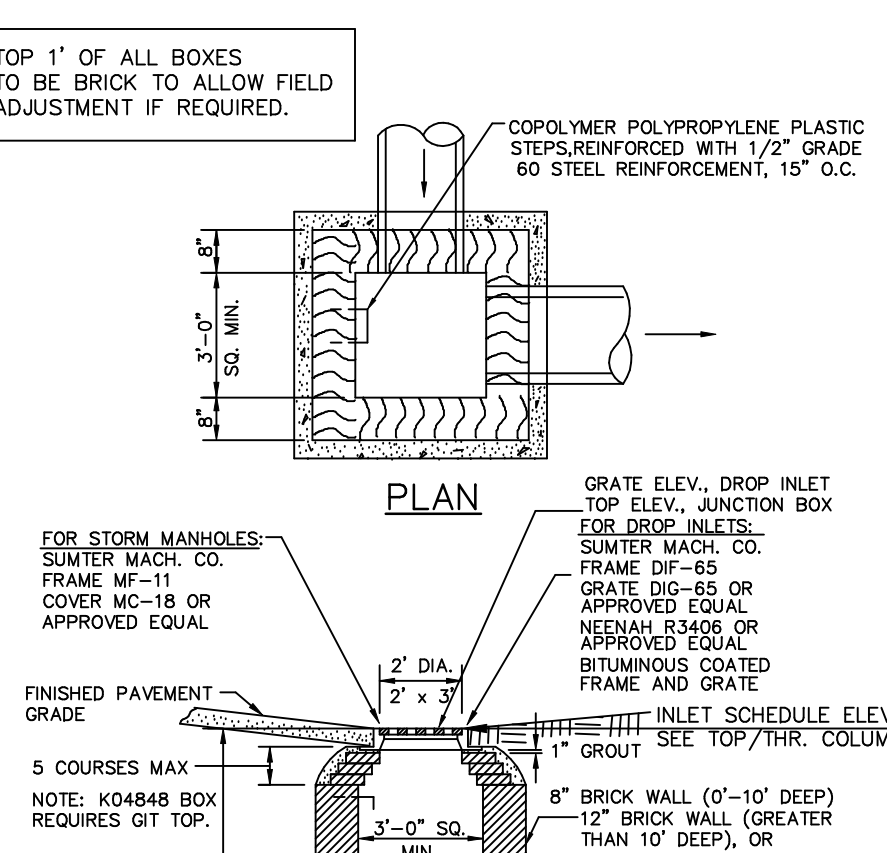
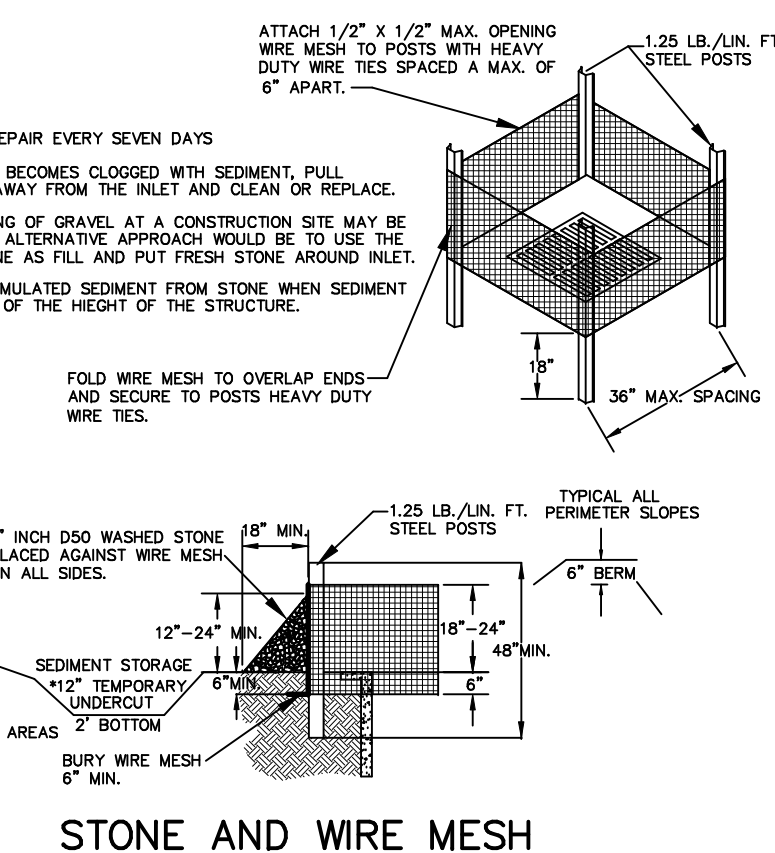
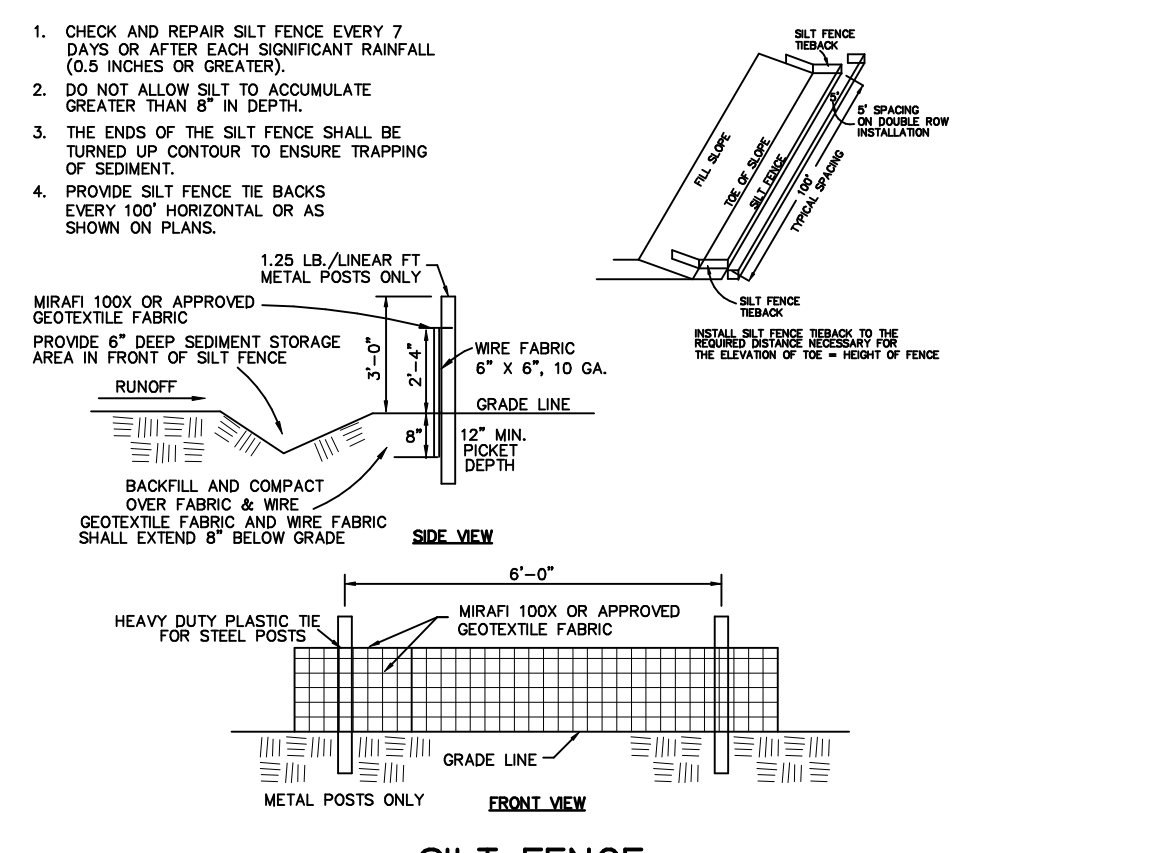
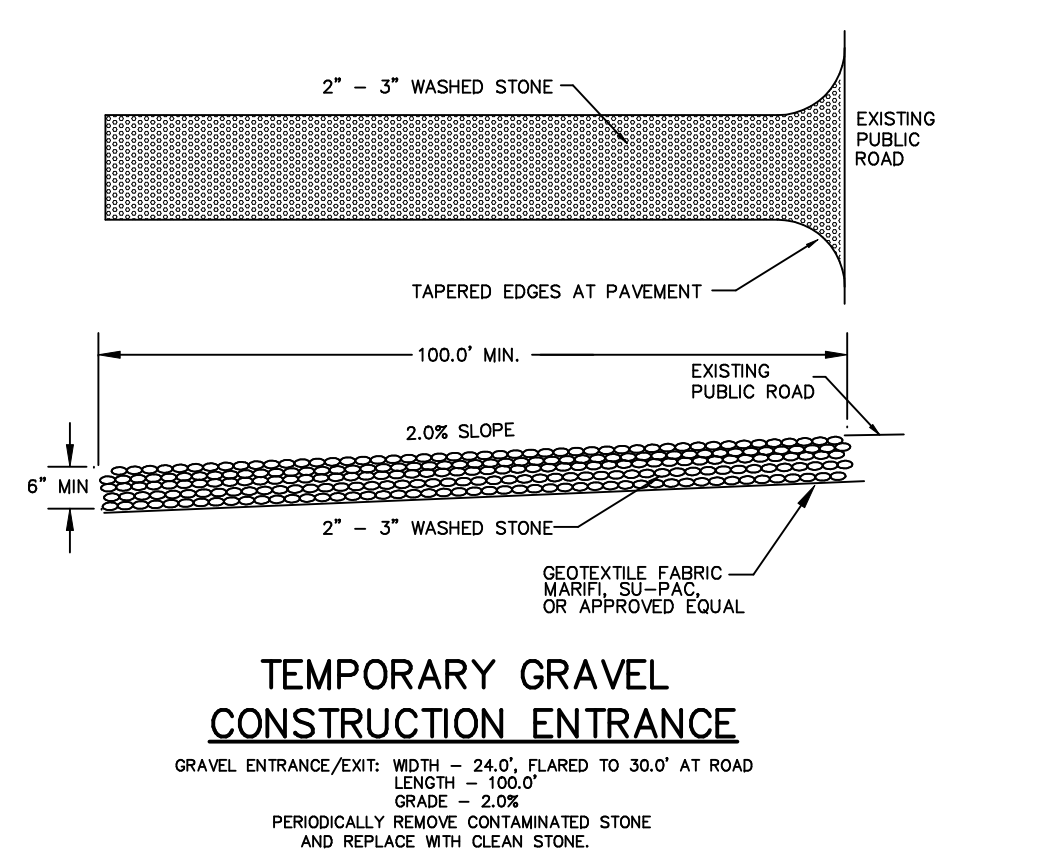
- RECEIVE NPDES COVERAGE FROM SCDHEC.
- HAVE PRE-CONSTRUCTION (CEPSCI CERTIFICATION MEETING).
- NOTIFY SCDHEC REGIONAL OFFICE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- PHASE I: INITIAL EROSION CONTROL (CV1.1)
  - CLEARING AND GRUBBING / DEMOLITION ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS (EG. SILT FENCE AND CONSTRUCTION ENTRANCE)
  - INSTALL PERIMETER CONTROLS.
  - CLEARING AND GRUBBING / DEMOLITION ONLY AS NECESSARY FOR INSTALLATION OF TEMPORARY SEDIMENT TRAPS.
  - BEGIN DEMOLITION / CLEARING AND GRUBBING FOR SOIL STORAGE AREAS ONLY. INSTALL TEMPORARY SWALES AS NEEDED TO DIRECT RUNOFF INTO TRAPS
- PHASE II: GRADING (CV1.2)
  - COMPLETE CLEARING AND GRUBBING FOR INSTALLATION OF STORM DRAINAGE.
  - INSTALL SWALES AND STORM DRAIN PIPE AS REQUIRED TO DIRECT RUNOFF TO BASINS.
  - PLACE INLET PROTECTION AROUND ALL CATCH BASINS.
  - COMPLETE TOPSOIL REMOVAL AND/OR STORAGE FOR REMAINDER OF SITE.
  - COMPLETE REMAINING GRADING, STORM DRAINAGE, AND SITE UTILITIES.
  - COMPLETE MASS GRADING CONSTRUCTION.
- PHASE III: STABILIZATION (CV1.2 & LANDSCAPING PLANS)
  - APPLY GRASSING IN ACCORDANCE WITH GRASS NOTES.
  - INSPECT AND MAINTAIN ALL EROSION CONTROL AS INDICATED IN GRADING NOTES.
  - PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON INDICATED ON GRASS NOTES.
  - AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED:
    - REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS THE SITE.
    - TEMPORARY EROSION CONTROL MEASURES TO REMAIN, SMOOTH AREA AND APPLY GRASSING PER GRASS NOTES/SPECIFICATIONS.
- REQUEST FINAL INSPECTION FORM CITY INSPECTOR & SITE ENGINEER. TAKE CORRECTIVE ACTION AS REQUIRED.
- SUBMIT NOTICE OF TERMINATION TO CLOSE OUT PROJECT PERMIT.

### SITE SPECIFICATIONS & NOTES

- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATION. ADVISE ENGINEER IMMEDIATELY OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES SHALL BE WITH CAUTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION WHICH AFFECTS NEW CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION AND/OR RELOCATION AS NECESSARY AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY ALL WORK PRIOR TO CONSTRUCTION, DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DISCONTINUE WORK IN ALL AFFECTED AREAS UNTIL RESOLVED BY ENGINEER.
- EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. THE CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY-PNEUMATIC EQUIPMENT. ALL FILL COMPACTION SHALL BE 92% OF MAXIMUM PER ASTM D-698 (STANDARD PROCTOR). FILL MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, DEBRIS OR ROCKS. WHERE FILL IS TO BE PLACED, ALL EXISTING VEGETATION, ROOTS AND OTHER ORGANIC MATTER DOWN TO 12 INCHES BELOW EXISTING GRADE SHALL BE STRIPPED AND DISPOSED OF AS DIRECTED. FILL SHALL BE PLACED IN SUCCESSIVE LAYERS OF NOT MORE THAN 8 INCHES LOOSE THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.
- THE CONTRACTOR SHALL REMOVE ALL DEBRIS INCLUDING PAVEMENT, CONCRETE, AND UNSUITABLE MATERIAL FROM THE SITE. ALL AREAS UNDER EXISTING PAVEMENT SHALL BE SCARIFIED BEFORE PLACING STRUCTURAL FILL MATERIAL.
- CATCH BASINS SHALL BE IN ACCORDANCE WITH SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SCDOT STANDARD DRAWINGS FOR ROAD CONSTRUCTION.
- STORM SEWER SHALL BE LAID ON A MINIMUM TYPE "C" BEDDING FOR DEPTHS TO 21'. FOR DEPTHS GREATER THAN 21' USE TYPE "B" BEDDING. PLACE BELL OR BED GROOVE END UP GRADE WITH THE SPIGOT OR TONGUE FULLY INSERTED. EACH JOINT SHALL BE CHECKED FOR ALIGNMENT AND GRADE AS THE WORK PROCEEDS. APPROVED BACKFILL MATERIAL SHALL BE PLACED CAREFULLY ALONG THE PIPE AND COMPACTED UNDER HAUNCHES. MATERIAL SHALL BE BROUGHT UP EVENLY IN LAYERS ON BOTH SIDES OF THE PIPE AND TO ONE FOOT ABOVE THE TOP OF THE PIPE. MATERIAL SHALL BE PLACED IN A MANNER SO AS NOT TO DISPLACE OR DAMAGE THE INSTALLED PIPE. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS AS SPECIFIED.



### GENERAL NOTES



### DETAIL 1.3B

NOT TO SCALE

### DETAIL 1.3C

NOT TO SCALE

### DETAIL 1.3D

NOT TO SCALE

#### INLET SCHEDULE

INLET	TYPE	TOP /THR.	INVERT IN	INVERT OUT
D9	GRATE	825.50		820.50
D8	GRATE	825.00		820.00
D7C	GRATE	824.00		819.00
D7B	GRATE	822.50	818.50	818.50
D7A	GRATE	822.50	818.20	818.20
D7	GRATE	824.00	817.70	817.70
D6	GRATE	824.00	816.50	816.50
D5	WEIR	819.50	815.49	
D4	WEIR	820.00	814.51	814.51
D3A	GRATE	824.00		819.50
D3	WEIR	818.50	815.00	814.13
D2A	GRATE	818.80		814.80
D2	JUNCTION	813.50	811.50 - D2A 810.50 - D4 809.50 - D3	819.50
E4	GRATE	817.00		813.00
E3	GRATE	817.00		812.50
E2	GRATE		810.50	810.47

#### PIPE SCHEDULE

FROM-TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
D9-D7	83.2	15 HP	
D8-D7	51.6	15 HP	
D7C-D7B	47.7	15 HP	
D7B-D7A	55.0	15 HP	
D7A-D7	75.0	15 HP	
D7-D6	97.9	15 HP	
D6-D5	114.3	15 HP	
D3A-D3	120.9	18 HP	
D2A-D2	55.0	15 HP	
E4-E3	28.5	15 HP	
E3-E2	100.4	15 HP	

#### NOTES

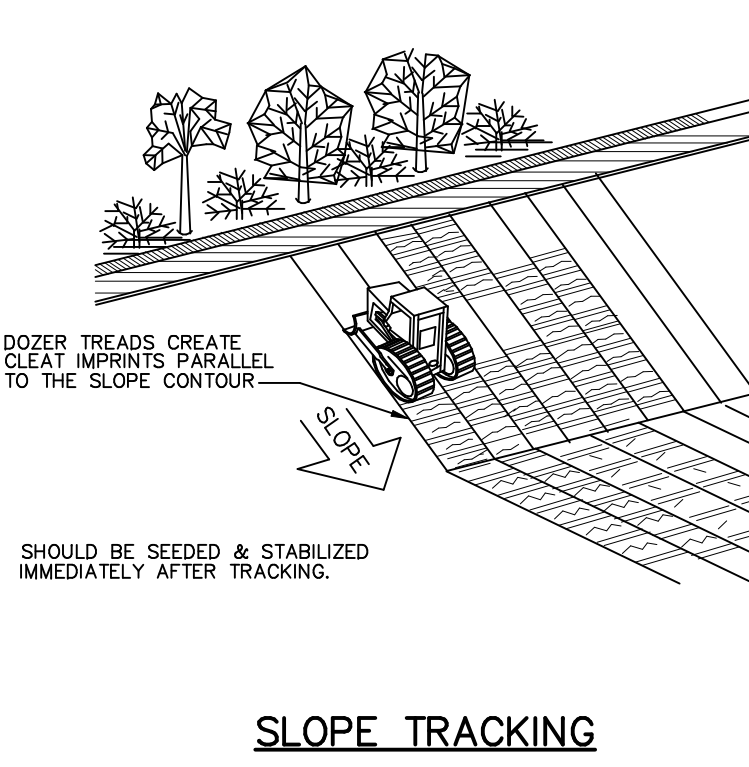
REFERENCE SITE PLAN SPECIFICATIONS FOR CLASS PIPE & BEDDING.

SEE DETAILS FOR INLET SCHEDULE ELEVATION LOCATION.

PROVIDE INLET PROTECTION TYPICAL ALL INLETS.

CONTRACTOR TO PROVIDE INLET MAINTENANCE AFTER ALL STORM EVENTS.

SEE SHEET CV 2.1 FOR ROAD DRAINAGE INFORMATION



### STORM DRAIN CHART

NO.	DATE	REVISION	BY

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CONSULTING ENGINEERS

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### DETAIL 1.3F

NOT TO SCALE

### DETAIL 1.3G

NOT TO SCALE

### DETAIL 1.3H

NOT TO SCALE

DR. TK GREGG GREENSPACE  
GRADING NOTES & DETAILS  
680 HOWARD STREET, SPARTANBURG, SC

DRAWN: WAB	SHEET NO.
CHECKED: WAB	CV1.3
APPROVED: WAB	
DATE: 01/28/2022	
JOB NO. 2112	

**PRESTON STREET STORM DRAINAGE**

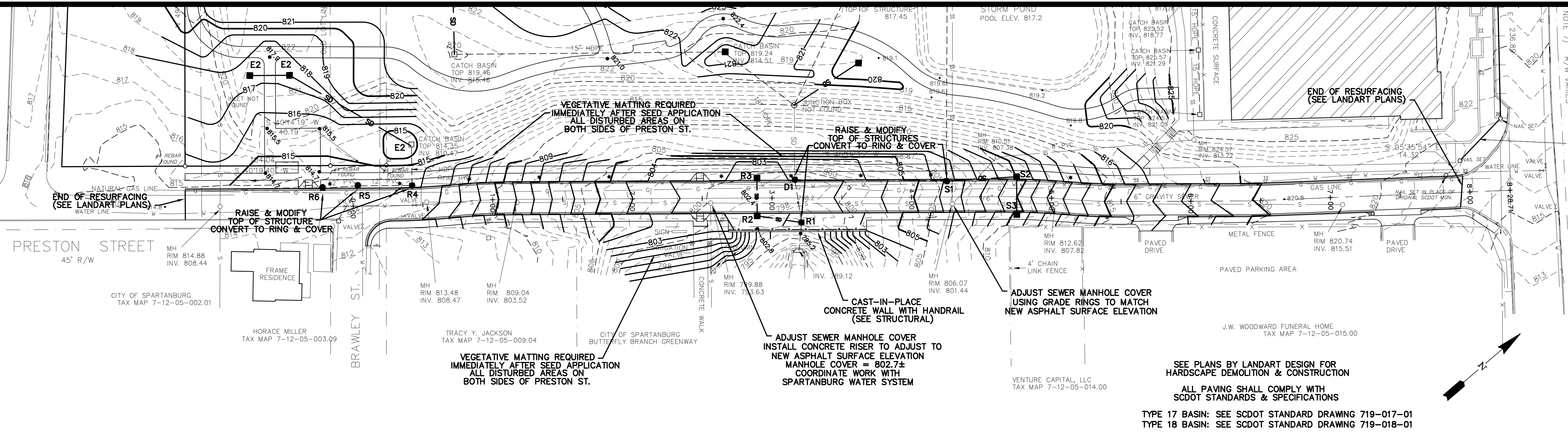
**PIPE SCHEDULE**

FROM-TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
R6 EXISTING BASIN: MODIFY & RAISE TOP			
R5 EXISTING BASIN: MODIFY & RAISE TOP			
R4 EXISTING BASIN: MODIFY & RAISE TOP			
R3-R2	75.0	24 RCP	
R2-R1	97.9	24 RCP	
R1 EXISTING BASIN: MODIFY & RAISE TOP			
S3-S2	27.0	15 RCP	
S2-S1	49.9	18 RCP	
S1 EXISTING BASIN: MODIFY & RAISE TOP			

**INLET SCHEDULE**

INLET	TYPE	TOP /THR.	INVERT IN	INVERT OUT
R6	JUNCTION	814.5±		
R5	JUNCTION	814.7±		
R4	JUNCTION	814.3±		
R3	TYPE18	802.40		795.55
R2	TYPE18	802.40	795.40	795.40
R1	JUNCTION	824.00		
S3	TYPE17	810.00		805.50
S2	TYPE17	810.00	805.00	805.00
S1	JUNCTION	806.60±		
D1	JUNCTION	824.00		

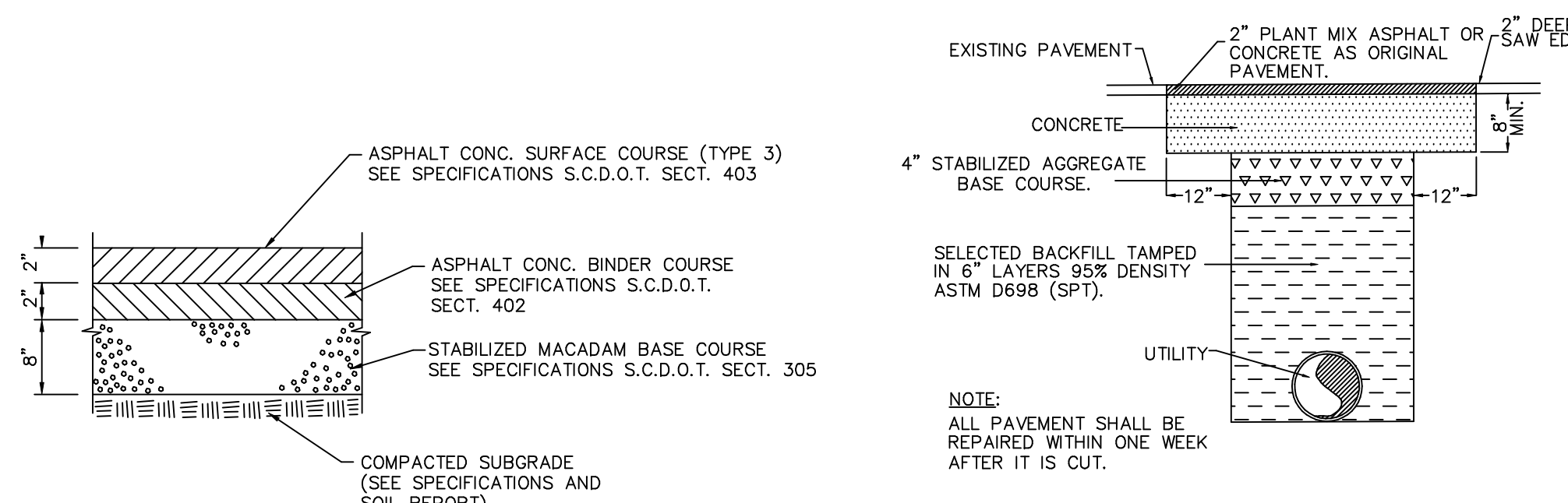
REFERENCE SITE PLAN SPECIFICATIONS FOR CLASS PIPE AND BEDDING  
SEE DETAILS FOR INLET SCHEDULE ELEVATION LOCATION.  
PROVIDE INLET PROTECTION TYPICAL ALL INLETS.  
CONTRACTOR TO PROVIDE INLET MAINTENANCE AFTER ALL STORM EVENTS.



SEE PLANS BY LANDART DESIGN FOR HARDSCAPE DEMOLITION & CONSTRUCTION  
ALL PAVING SHALL COMPLY WITH SCDOT STANDARDS & SPECIFICATIONS  
TYPE 17 BASIN: SEE SCDOT STANDARD DRAWING 719-017-01  
TYPE 18 BASIN: SEE SCDOT STANDARD DRAWING 719-018-01

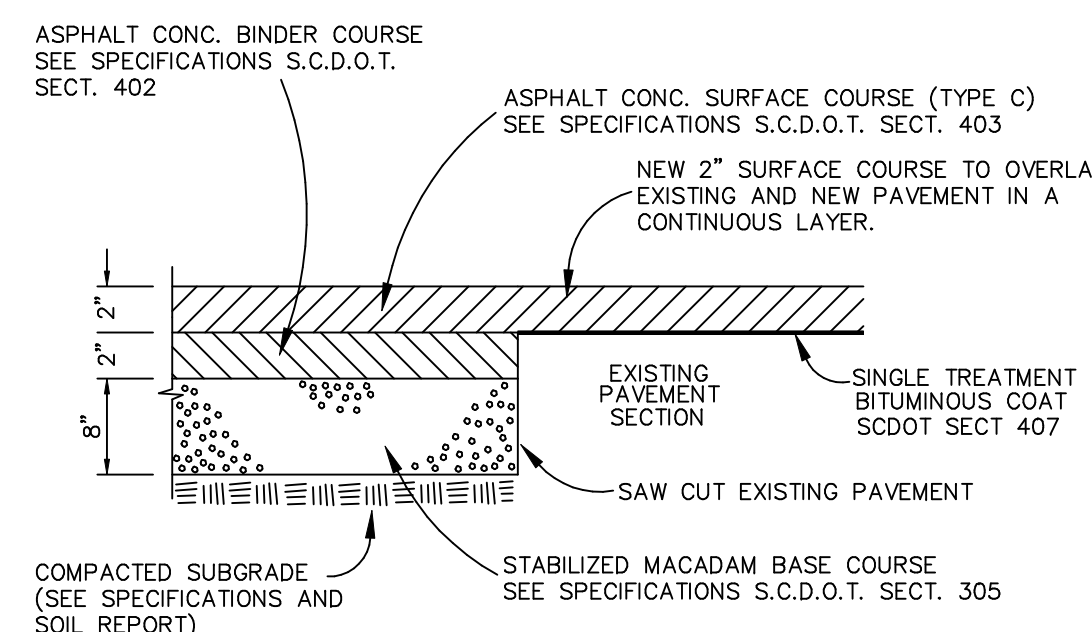
**PRESTON STREET MODIFICATIONS & RESURFACING: PLAN**

SCALE 1" = 40'

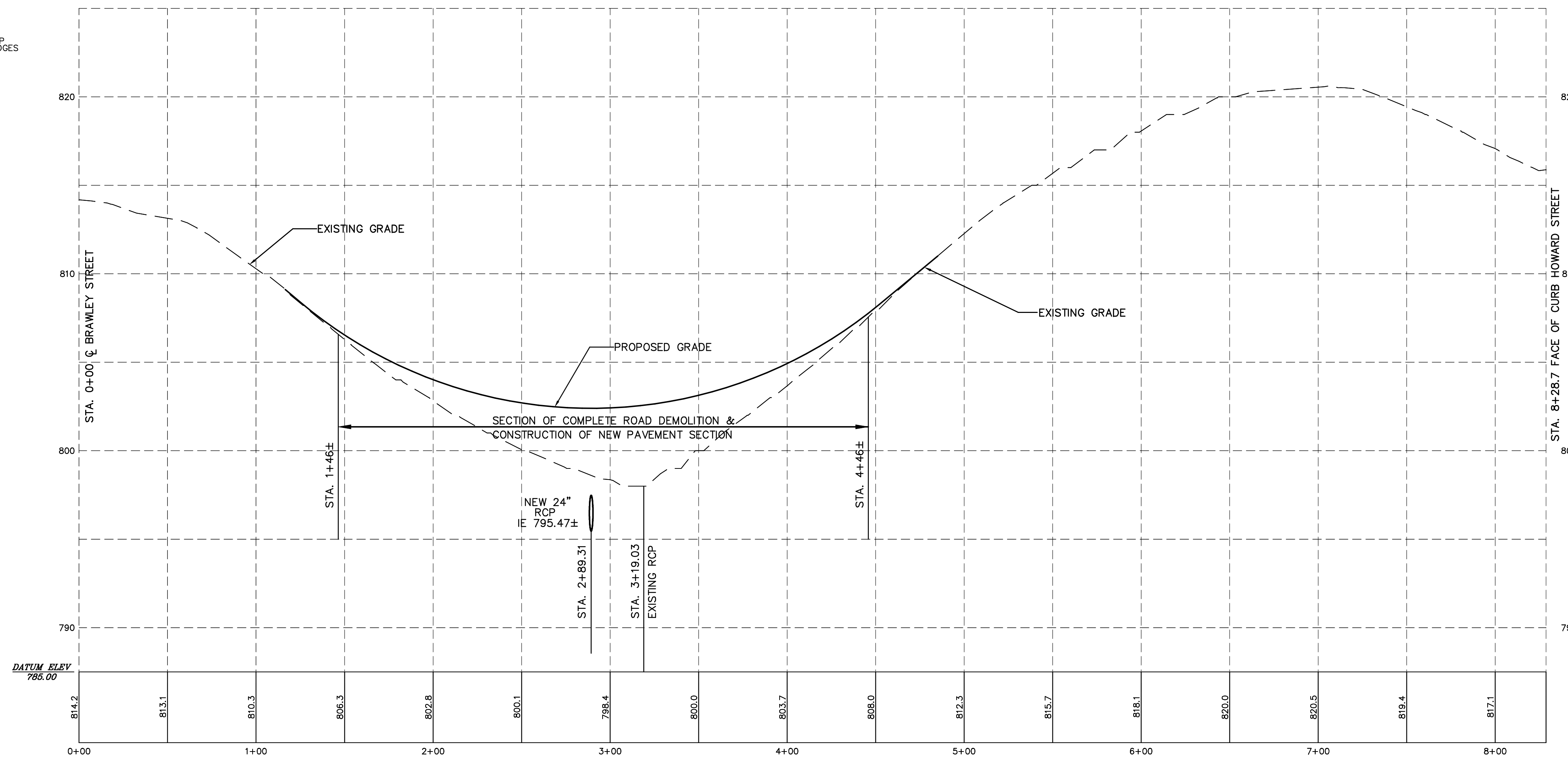


**HEAVY DUTY ASPHALT PAVEMENT**

**CUTTING AND REPLACING PAVEMENT**



**HEAVY DUTY - ASPHALT PAVEMENT OVERLAY**  
(AFTER MILLING OF EXISTING PAVEMENT SECTION)



**PRESTON STREET MODIFICATIONS & RESURFACING: PROFILE**

NO.	DATE	REVISION	BY

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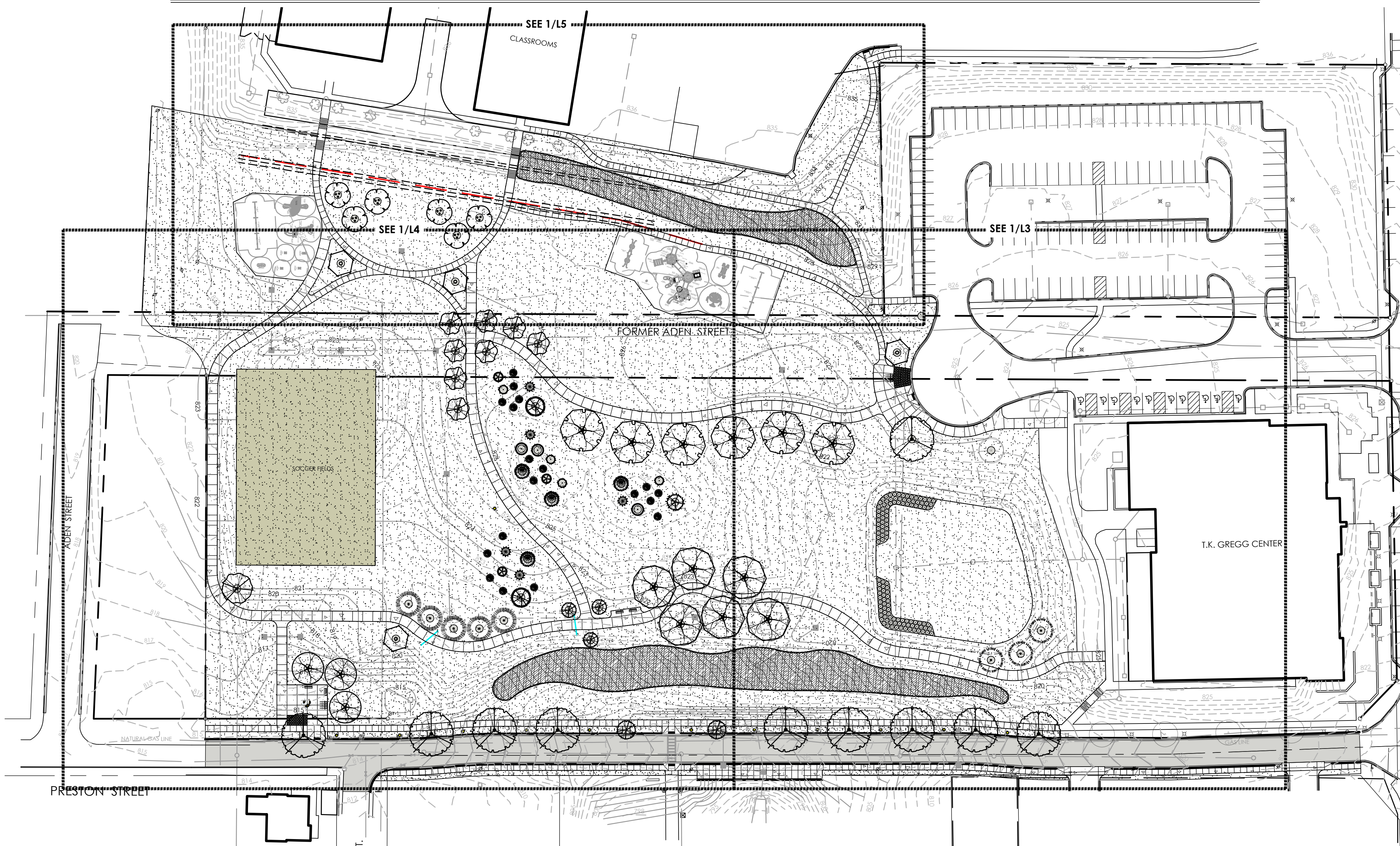
**DR. TK GREGG GREENSPACE**  
**PRESTON STREET**  
**PLAN & PROFILE**  
SPARTANBURG, SC

DRAWN:	WAB
CHECKED:	WAB
APPROVED:	WAB
DATE:	01/28/2022
JOB NO.	2112

SHEET NO.  
**CV2.1**

# DR. T K GREGG GREENSPACE

CITY OF SPARTANBURG, SOUTH CAROLINA



**1** OVERALL LANDSCAPE PLAN  
L1 SCALE: 1"=50'

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
ACE BUE	6	ACER BUERGERIANUM 'MULTI-STEM' / MULTI-STEM TRIDENT MAPLE	B & B	3" CAL	
ACE ARM	3	ACER RUBRUM 'JKS-KW78' / ARMSTRONG GOLD MAPLE	B & B	2.5" CAL	
ACE OCC	1	ACER RUBRUM 'OCTOBER GLORY' / OCTOBER GLORY MAPLE	B & B	4" CAL	16' MIN.
CED WYN	1	CEDRUS DEODARA 'WYNDIMERE' / WYNDIMERE DEODAR CEDAR	B & B		8'-10'
CHI CHS	4	CHIONANTHUS RETUSUS 'CHINA SNOW' / CHINA SNOW CHINESE FRINGE TREE	B & B	3" CAL	
CUP CAS	4	CUPRESSUS ARIZONICA 'CAROLINA SAPPHIRE' / CAROLINA SAPPHIRE CYPRESS	B & B	15 GAL	
CUP RAW	3	CUPRESSUS ARIZONICA GLABRA 'RAYWOOD'S WEEPING' / RAYWOOD'S WEEPING ARIZONA CYPRESS	15 GAL		
JUN BLU	5	JUNIPERUS CHINENSIS 'BLUE POINT' / BLUE POINT JUNIPER	B & B		6' MIN.
JUN TOR	3	JUNIPERUS CHINENSIS 'TORULOSA' / HOLLYWOOD JUNIPER	B & B		8' MIN.
JUN CAN	2	JUNIPERUS VIRGINIANA 'CANAERTII' / CANAERTII JUNIPER	B & B		8'-9'
JUN TAY	18	JUNIPERUS VIRGINIANA 'TAYLOR' / TAYLOR EASTERN RED CEDAR	B & B		8' MIN.
JUN HE5	4	JUNIPERUS X 'HETZLI' / HETZLI JUNIPER	B & B		8' MIN.
LIR EMC	3	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM / EMERALD CITY TULIP TREE	B & B	4" CAL	16' MIN.
PIS CHI	8	PISTACIA CHINENSIS / CHINESE PISTACHE	B & B	2" CAL	14' MIN.
QUE BIC	6	QUERCUS BICOLOR / SWAMP WHITE OAK	B & B	3" CAL	16' MIN.
QUE BIZ	2	QUERCUS BICOLOR 'BONNIE AND MIKE' / BEACON SWAMP WHITE OAK	B & B	2.5" CAL	14' MIN.
QUE LYR	6	QUERCUS LYRATA / OVERCUP OAK	B & B	3" CAL	18' MIN.
TAX PRA	5	TAXODIUM ASCENDENS 'PRAIRIE SENTINEL' / POND CYPRESS	B & B	2.5" CAL	
TAX CHG	3	TAXODIUM DISTICHUM 'JFS-SGPN' TM / GREEN WHISPER BALD CYPRESS	B & B	2" CAL	14' MIN.
ULM JEF	10	ULMUS AMERICANA 'JEFFERSON' / JEFFERSON ELM	B & B	2.5" CAL	14' MIN.

32 EXTERIOR IMPROVEMENTS SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
[Hatched Box]	SOCCER FIELD TOP DRESS AREA	17,050 SF	
[Solid Grey Box]	TRIPLE HAMMERED HARDWOOD MULCH (3" THICK)	42.84 CY	



Know what's below.  
Call before you dig.

GENERAL LANDSCAPE NOTES

- MATERIALS LIST WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITY TAKE-OFF USING DRAWINGS AND SPECIFICATIONS TO DETERMINE QUANTITIES TO HIS SATISFACTION. REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY EFFECT BIDDING.
- ROOT TYPES MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN. ALL PLANT MATERIAL MUST ADHERE TO ANSI Z60.1-2004 (AMERICAN STANDARD FOR NURSERY STOCK) SPECIFICATIONS FOR ROOT BALLS AND CONTAINER SIZES.
- CONTRACTOR TO VERIFY THAT ALL PLANT MATERIALS ARE AVAILABLE AS SPECIFIED WHEN BID/PROPOSAL IS SUBMITTED.
- UNLESS SPECIFICALLY NOTED, ALL PLANTS SHALL BE OF SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, SYMMETRICAL, AND SO TRAINED OR FAVORED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY AND OUTSTANDINGLY SUPERIOR IN FORM, COMPACTNESS AND SYMMETRY. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF; FREE OF DISEASE AND INSECTS, EGGS OR LARVAE; AND SHALL HAVE HEALTHY, WELL-DEVELOPED ROOT SYSTEMS. THEY SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT VIGOROUS GROWTH.
- SUBSTITUTIONS OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE LANDSCAPE ARCHITECT. IF PROOF IS SUBMITTED IN WRITING THAT A PLANT SPECIFIED IS NOT OBTAINABLE, CONSIDERATION WILL BE GIVEN TO THE NEAREST AVAILABLE SIZE OR SIMILAR VARIETY, WITH A CORRESPONDING ADJUSTMENT OF THE CONTRACT PRICE.
- PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED. EXCEPT PLANTS LARGER THAN THOSE SPECIFIED MAY BE USED IF APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. USE OF LARGER PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. IF LARGER PLANTS ARE APPROVED, THE ROOT BALL SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
- ROOT FLARE OF PLANT MATERIAL MUST BE AT OR SLIGHTLY HIGHER THAN EXISTING GRADE. PULL MULCH BACK 6 IN. FROM ROOT FLARE. TREES WITH MULTIPLE LEADERS, UNLESS SPECIFIED, WILL BE REJECTED. TREES WITH A DAMAGED OR CROOKED LEADER, BARK ABRASIONS, SUNSCALD, DISFIGURING KNOTS, INSECT DAMAGE, CUTS OF LIMBS OVER 20 MM (3/4 IN.) IN DIAMETER THAT ARE NOT COMPLETELY CLOSED OR FLUSH PRUNING CUTS THAT DO NOT PRESERVE THE COLLAR AT THE BRANCH WILL BE REJECTED.
- TREE PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING MUST BE FOLLOWED.
- CONTRACTOR SHALL TEST SOIL pH AND CONDITIONS FOR ALL SOD AREAS TO INSURE THAT PROPER SOIL REQUIREMENTS ARE MET FOR THE SOODED LAWN. SOIL SHALL BE AMENDED BY CONTRACTOR AS INDICATED BY SOIL TEST AND SPECIFICATIONS TO ACHIEVE PROPER SOIL CONDITIONS.
- ALL PLANT BEDS TO RECEIVE 3" DEEP HARDWOOD MULCH, PULLED 6" AWAY FROM THE TRUNK.
- CONTRACTOR TO MAINTAIN THE PLANTINGS AND CONTROL WEEDS IN MULCH AREAS THROUGH THE DURATION OF CONSTRUCTION UNTIL FINAL ACCEPTANCE.
- ALL PLANT BED AND SEED/SOD AREAS TO RECEIVE 100% IRRIGATION COVERAGE.
- CONTRACTOR SHALL SUPPLY AN AS-BUILT IRRIGATION PLAN TO THE OWNER BEFORE FINAL ACCEPTANCE OF THE PROJECT.
- IN THE PLANT SCHEDULE AS 'SPECIMEN', SHALL BE SELECTED BY THE LANDSCAPE ARCHITECT AT THE NURSERY OR PHOTOS OF THE PLANTING STOCK SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
- PREEMERGENT HERBICIDE SHALL BE APPLIED TO PLANTING AREAS PRIOR TO LANDSCAPE INSTALLATION AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- PLANT BED SHALL BE TESTED FOR pH AND AMENDED PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL SHALL CONFORM TO STANDARD SET FORTH BY "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI Z60.1-2004 PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- ALL PLANT MATERIAL SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION.
- ANY SUBSTITUTIONS IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE PLANTING CAN BEGIN.
- ALL TREES MUST BE STRAIGHT TRUNK, FULL HEADED, AND MEET ALL REQUIREMENTS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. SHOULD THE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, NECESSARY REPAIRS SHALL BE MADE AS QUICKLY AS PRACTICABLE, AT CONTRACTOR'S EXPENSE.
- ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODES REQUIREMENTS.
- CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
- CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF ALL PLANTS LOST DUE TO INADEQUATE DRAINAGE CONDITIONS.
- BALLED AND BURLAP MATERIAL SHALL HAVE THE TOP ONE HALF (1/2) OF THE BURLAP AND STRAPS REMOVED.
- CONTRACTORS SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANTS LISTS, GENERAL NOTES AND THE PLANTING SPECIFICATIONS FOR COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.
- CONTRACTOR TO PROVIDE SOD CERTIFICATION BEFORE INSTALLATION.
- TURF GRASS SHALL BE PLANTED AFTER ALL PLANTS ARE INSTALLED AND MULCHED. SEED AND/OR SOD BED PREPARATIONS BY MEANS OF PULVERIZATION TO LOOSEN SOIL. SMOOTH AND FINE GRADE AREA REMOVING ANY ROCKS, ROOTS, TRASH, AND CLODS OVER ENTIRE AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IN FULL ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) UNTIL THE OWNER AND LANDSCAPE ARCHITECT ACCEPT CONSTRUCTION IN FULL & FINAL PUNCH LIST COMPLETED / ACCEPTED IN WRITING.
- CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR A 12 MONTH ESTABLISHMENT PERIOD BEGINNING AT THE OWNERS' FULL ACCEPTANCE OF THE PROJECT.

PROJECT INFORMATION

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LANDSCAPE ARCHITECT:

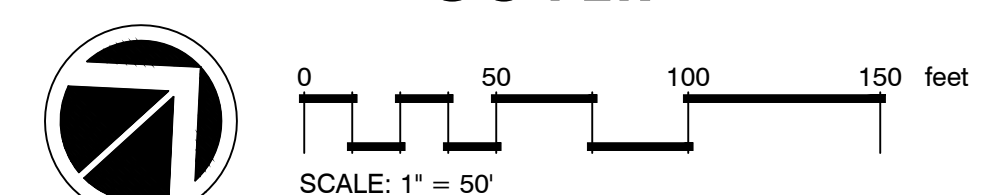


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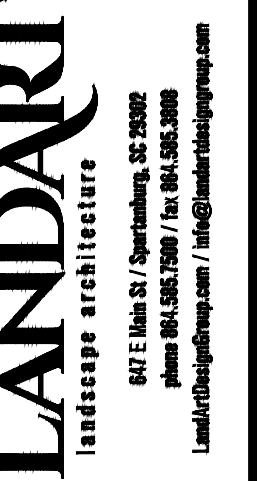
Sheet List Table

Sheet Number	Sheet Title
L1	COVER
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L3	LANDSCAPE PLAN EAST
L4	LANDSCAPE PLAN WEST
L5	SCHOOL DISTRICT LANDSCAPE PLAN
L6	LAYOUT PLAN
L7	CONSTRUCTION DETAILS
IR1	OVERALL IRRIGATION
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IR4	SCHOOL DISTRICT IRRIGATION PLAN
IR5	LEGEND AND DETAILS
E1	GENERAL NOTES, LEGEND, SINGLE LINE DIAGRAM & PANEL SCHEDULE
E2	ELECTRICAL PLAN
E3	ELECTRICAL SPECIFICATIONS & COM CHECK

COVER



DR. T K GREGG GREENSPACE  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA



**SHEET TITLE:**  
COVER  
**JOB #:**  
15023-01  
**DATE:**  
01/28/22  
**DRAWN:**  
TP/BB/KK/CL  
**APPROVED:**  
TP

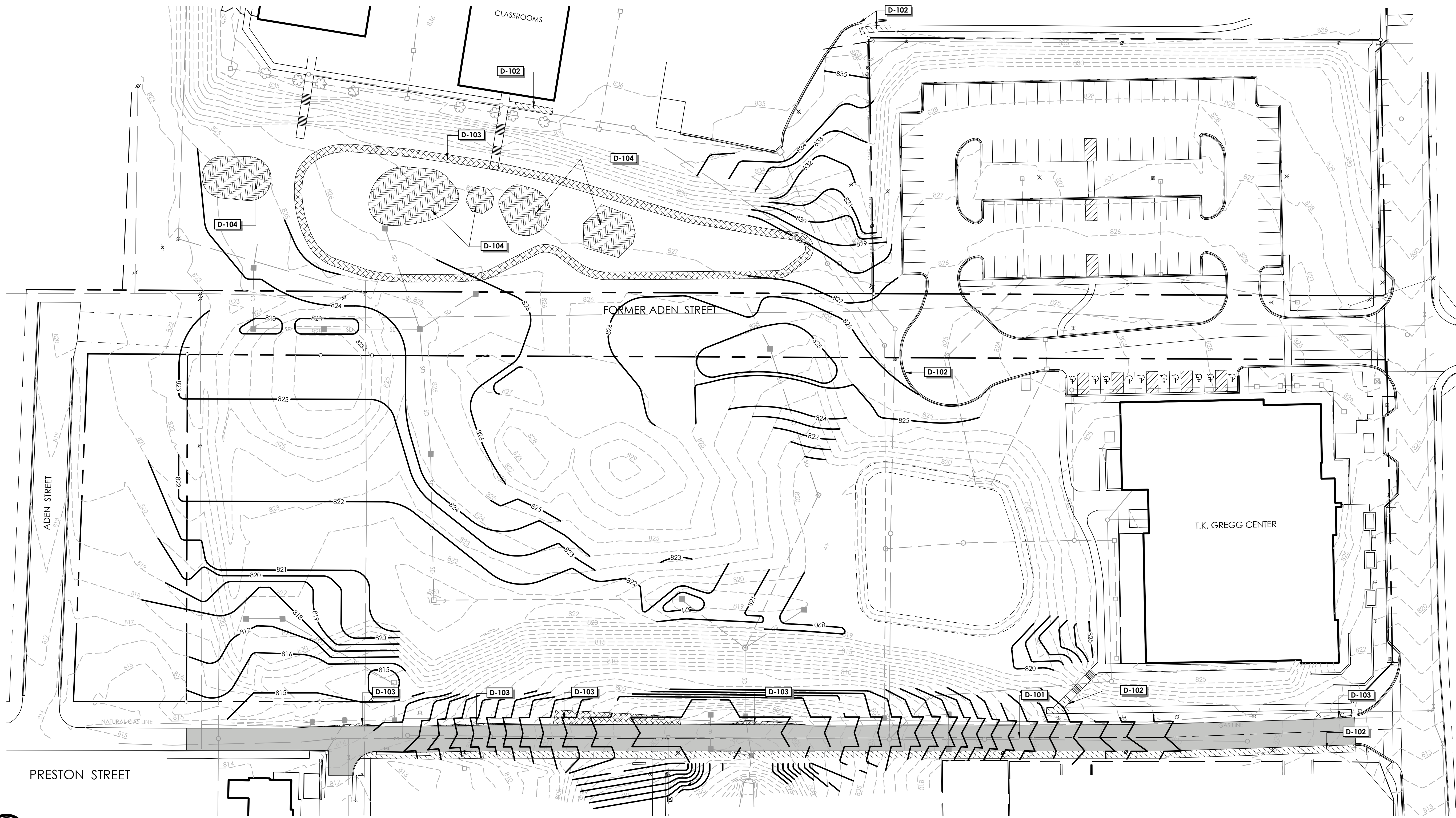
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SHEET  
**L1**  
OF L7

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**1 DEMOLITION PLAN**  
**L2 SCALE: 1" = 40'**

**SEQUENCE OF CONSTRUCTION ACTIVITIES:**

1. DETERMINE AND MARK LIMITS OF DISTURBANCE.
2. HARVEST TIMBER
3. PLACE PERIMETER SILT FENCE
4. TOPSOIL REMOVAL AND/OR STORAGE.
5. BEGIN MASS GRADING OPERATIONS.
6. INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES EVERY 7 DAYS AND AFTER EACH SIGNIFICANT RAINFALL (0.5 INCHES OR GREATER) AND DOCUMENT WITH INSPECTION REPORTS.
7. PLACE TEMPORARY SEEDING ON ALL DISTURBED AREAS THAT WILL BE IDLE 14 DAYS OR LONGER.
8. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON. FERTILIZE, WATER, AND RESEED AS REQUIRED TO ESTABLISH AND MAINTAIN A VIGOROUS STAND OF GRASS.
9. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, (A) REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS THE SITE (B) REMOVE TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREA AND APPLY APPROPRIATE GRASS.

**DEMOLITION NOTES:**

1. ALL MATERIAL GENERATED BY THE DEMOLITION WILL BE HAULED FROM THE SITE AND DISPOSED OF PER LOCAL ORDINANCE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION PER WORK AREA TRAFFIC CONTROL HANDBOOK STANDARDS (W.A.T.C.H.).
3. CONTRACTOR TO SUBMIT A SEQUENCING SCHEDULE FOR DEMOLITION.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DEMOLITION, RELOCATION, OR BURIAL WITH APPLICABLE UTILITY COMPANIES & SCDOT, I.E., GAS, CABLE, POWER, TELEPHONE, WATER, DRAINAGE, ETC.
5. INSTALL ORANGE CONSTRUCTION FENCE AROUND PERIMETER OF AREAS BEING DEMOLISHED AND AREAS UNDER CONSTRUCTION.

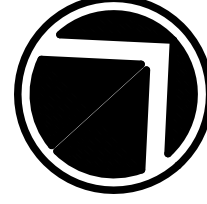
**GENERAL NOTES:**

1. CONTRACTOR SHALL DAILY REMOVE MUD / SOIL FROM ALL PAVEMENTS, AS MAY BE REQUIRED.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES, AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. SHOULD THE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, NECESSARY REPAIRS SHALL BE MADE AS QUICKLY AS PRACTICABLE, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIAL RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND /OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
4. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
6. ALL CONSTRUCTION WITHIN STATE HIGHWAY DEPARTMENT RIGHT OF WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER.
7. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY AND REGULATORY AUTHORITY.

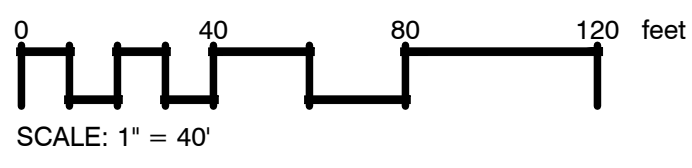
**REFERENCE NOTES SCHEDULE**

SYMBOL	DEMOLITION DESCRIPTION	QTY	DETAIL
	<b>D-101</b> 2" ASPHALT MILLINGS	18,895 SF	
	<b>D-102</b> CONCRETE REMOVAL	4,755 SF	
	<b>D-103</b> ASPHALT REMOVAL	29,771 SF	
	<b>D-104</b> PLAYGROUND MATERIALS REMOVAL	6,872 SF	

**NOTE:**  
 THE BASE INFORMATION FOR THIS DRAWING HAS BEEN COMPILED FROM A VARIETY OF SOURCES AT VARIOUS TIMES AND AS SUCH IS INTENDED TO BE USED ONLY AS A CONCEPTUAL GUIDE. ALL PROPERTY LINES, TRACT DIMENSIONS AND DESCRIPTIONS ARE FOR GRAPHIC PURPOSES ONLY, AS AN AID TO SITE LOCATION AND POSSIBLE POTENTIAL LAND USE. ANY PERSON DESIRING TO DETERMINE ACTUAL COMMITMENTS SHOULD EXAMINE THE APPROPRIATE PLATS, DEED RESTRICTIONS, COVENANTS, AND PLANNING AND ZONING REGULATIONS APPLICABLE TO SPECIFIC PORTIONS OF THE PROPERTY.



**DEMOLITION PLAN**



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**SHEET TITLE:**  
 DEMOLITION PLAN

**JOB #:**  
 15023-01

**DATE:**  
 01/28/22

**DRAWN:**  
 TP/BB/KK/CL

**APPROVED:**  
 TP

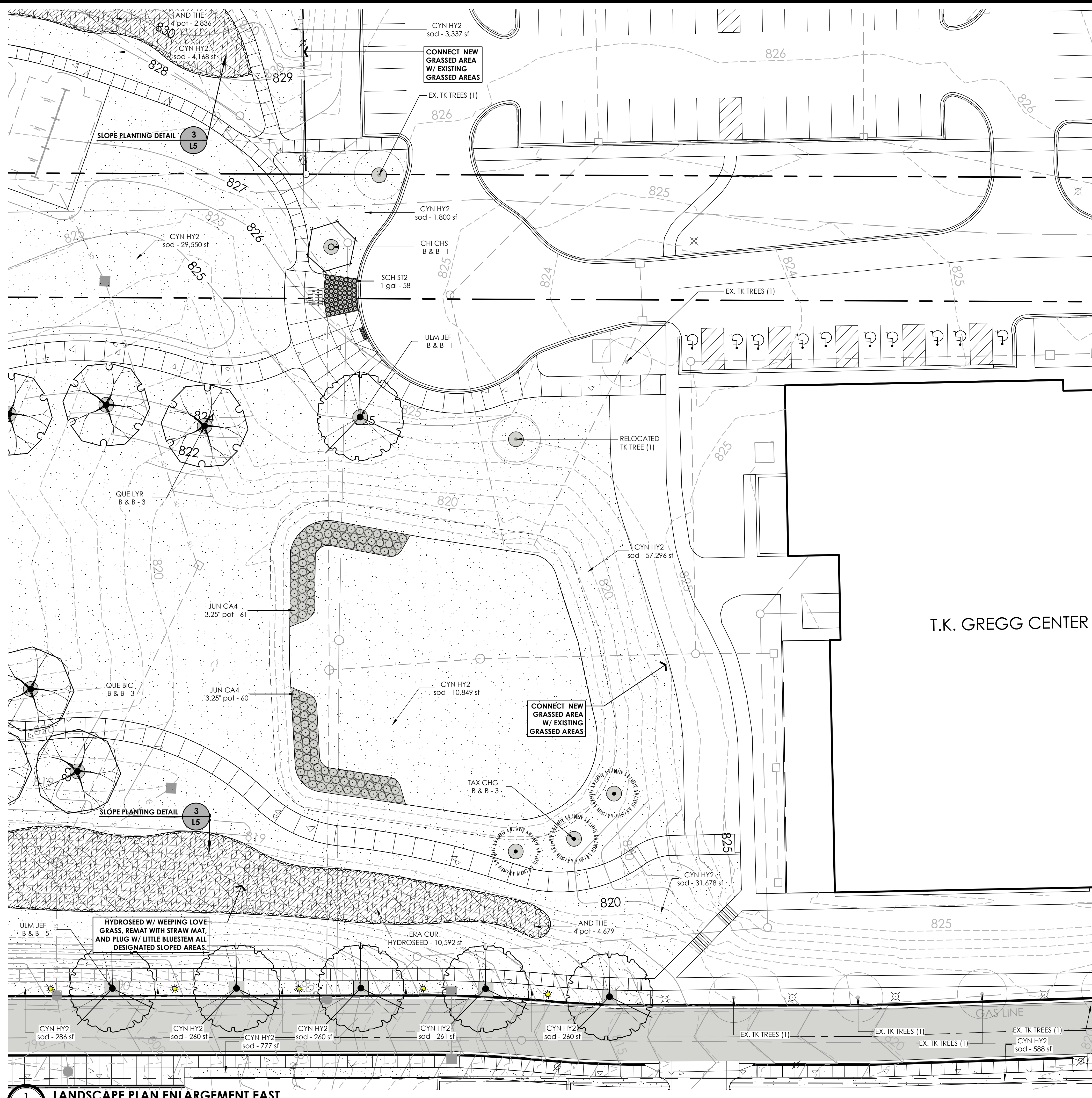
**REVISIONS:**

NO.	DATE	DESCRIPTION
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**SHEET**  
**L2**  
 OF L7

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### GENERAL LANDSCAPE SPECIFICATIONS

LANDSCAPE PLANTING AND RELATED WORK SHALL BE PERFORMED BY A FIRM WITH A MINIMUM OF FIVE YEARS EXPERIENCE SPECIALIZING IN THIS TYPE OF WORK. ALL CONTRACTORS AND THEIR SUB-CONTRACTORS WHO WILL BE PERFORMING ANY LANDSCAPE WORK INCLUDED IN THIS SECTION OF THE SPECIFICATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.

**CONTRACT CLOSEOUT SUBMITTALS:**

- PRIOR TO PLANT MATERIAL ACCEPTANCE, SUBMIT WRITTEN MAINTENANCE INSTRUCTIONS RECOMMENDING ADEQUATE AND REASONABLE PROCEDURES FOR MAINTENANCE OF PLANT MATERIALS.
- PROVIDE PLANT MATERIAL RECORD DRAWINGS:
  - LEGIBLY MARK DRAWINGS TO RECORD ACTUAL CONSTRUCTION.
  - INDICATE HORIZONTAL LOCATIONS, REFERENCED TO PERMANENT SURFACE IMPROVEMENTS.
  - IDENTIFY FIELD CHANGES OF DIMENSION AND DETAIL AND CHANGES MADE BY CHANGE ORDER.

**PREPARATION:**

- UTILITY VERIFICATION: CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO ANY UNMARKED UTILITY.
  - THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANIES FOR VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITY LINES IN THE AREA OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM NEGLIGENCE OR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- SOIL CONDITIONING:
  - CONTRACTOR SHALL BE RESPONSIBLE FOR A SOIL TEST REPORT BEFORE CONSTRUCTION START; PROVIDE REPORT TO OWNER, GENERAL CONTRACTOR, AND LANDSCAPE ARCHITECT.
  - COORDINATE AND PROVIDE ALL SOIL CONDITIONING REQUIREMENTS BASED ON THE SOIL TESTING.

**INSTALLATION:**

- PLANTS SHALL BE SET ON FLAT-TAMPED OR UNEXCAVATED PADS AT THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY WERE TO THE GROUND FROM WHICH THEY WERE DUG, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PLANTS MUST BE SET PLUMB AND BRACED IN POSITION UNTIL TOPSOIL OR PLANTING MIX HAS BEEN PLACED AND TAMPED AROUND THE BASE OF THE ROOT BALL. IMPROPER COMPACTING OF THE SOIL AROUND THE ROOT BALL MAY RESULT IN THE TREE SETTLING OR LEANING. PLANTS SHALL BE SET SO THAT THEY WILL BE AT THE SAME DEPTH AND SO THAT THE ROOT BALL DOES NOT SHIFT OR MOVE LATERALLY ONE YEAR LATER.
 

NOTE: PROPER PLANTING DEPTH REQUIRES THE ROOT FLARE TO BE AT OR SLIGHTLY ABOVE THE FINISHED GRADE. IT IS IMPORTANT TO DETERMINE HOW DEEP THE ROOT FLARE IS IN THE BALL BEFORE IT IS PLACED IN THE PLANTING HOLE. SOMETIMES THE TOP OF THE BALL MAY NEED TO BE RAISED UNTIL THE ROOT FLARE IS AT THE PROPER PLANTING DEPTH AND/OR SOIL MUST BE REMOVED FROM THE TOP OF THE BALL.

  - DETERMINE THE ELEVATION OF THE ROOT FLARE AND ENSURE THAT IT IS PLANTED AT GRADE. THIS MAY REQUIRE THAT THE TREE BE SET HIGHER THAN THE GRADE IN THE NURSERY.
  - IF THE ROOT FLARE IS LESS THAN 50 MM (2 IN.) BELOW THE SOIL LEVEL OF THE ROOT BALL, PLANT AT THE TREE THE APPROPRIATE LEVEL ABOVE THE GRADE TO SET THE FLARE EVEN WITH THE GRADE. IF THE FLARE IS MORE THAN 50 MM (2 IN.) AT THE CENTER OF THE ROOT BALL THE TREE SHALL BE REJECTED.

**GUARANTEE PERIOD AND REPLACEMENT:**

- THE OWNER OF FEE TITLE TO ANY PROPERTY ON WHICH PLANT MATERIAL HAS BEEN ESTABLISHED IN ACCORDANCE WITH AN APPROVED LANDSCAPE / PLANTING PLAN, SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR, AND REPLACEMENT OF THE APPROVED PLANT MATERIAL, AS REQUIRED BY THE ORDINANCE.
- THE GUARANTEE PERIOD FOR TREES AND SHRUBS SHALL BEGIN AT THE DATE OF ACCEPTANCE.
- THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL TO BE IN HEALTHY AND FLOURISHING CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
- WHEN WORK IS ACCEPTED IN PARTS, THE GUARANTEE PERIODS EXTEND FROM EACH OF THE PARTIAL ACCEPTANCES TO THE TERMINAL DATE OF THE GUARANTEE OF THE LAST ACCEPTANCE. THIS ALL GUARANTEE PERIODS TERMINATE AT ONE TIME.
- THE CONTRACTOR SHALL REPLACE, WITHOUT COST, AS SOON AS WEATHER CONDITIONS PERMIT, AND WITHIN A SPECIFIED PLANTING PERIOD, ALL PLANTS DETERMINED BY THE LANDSCAPE ARCHITECT TO BE DEAD OR IN AN UNACCEPTABLE CONDITION DURING AND AT THE END OF THE GUARANTEE PERIOD. TO BE CONSIDERED ACCEPTABLE, PLANTS SHALL BE FREE OF DEAD OR DYING BRANCHES AND BRANCH TIPS AND SHALL BEAR FOLIAGE OF NORMAL DENSITY, SIZE, AND COLOR. REPLACEMENTS SHALL CLOSELY MATCH ADJACENT SPECIMENS OF THE SAME SPECIES. REPLACEMENTS SHALL BE SUBJECT TO ALL REQUIREMENTS STATED IN THIS SPECIFICATION.
- THE GUARANTEE OF ALL REPLACEMENT PLANTS SHALL EXTEND FOR AN ADDITIONAL PERIOD OF ONE YEAR FROM THE DATE OF THEIR ACCEPTANCE AFTER REPLACEMENT. IN THE EVENT THAT A REPLACEMENT PLANT IS NOT ACCEPTABLE DURING OR AT THE END OF SAID EXTENDED GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT MAY ELECT SUBSEQUENT REPLACEMENT OR CREDIT FOR THAT ITEM.
- AT THE END OF THE GUARANTEE, THE CONTRACTOR SHALL RESET GRADES THAT HAVE SETTLED BELOW THE PROPOSED GRADES ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS, AT NO EXTRA COST, DURING THE GUARANTEE PERIOD TO DETERMINE WHAT CHANGES, IF ANY, SHOULD BE MADE IN THE MAINTENANCE PROGRAM. IF CHANGES ARE RECOMMENDED, THEY SHALL BE SUBMITTED IN WRITING TO THE LANDSCAPE ARCHITECT. CLAIMS BY THE CONTRACTOR THAT THE OWNER'S MAINTENANCE PRACTICES OR LACK OF MAINTENANCE RESULTED IN DEAD OR DYING PLANTS WILL NOT BE CONSIDERED IF SUCH CLAIMS HAVE NOT BEEN DOCUMENTED BY THE CONTRACTOR DURING THE GUARANTEE PERIOD.

### GRASSING NOTES:

- ON ANY PORTION OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED, ALL DISTURBED AREAS THAT ARE NOT SODDED SHALL BE STABILIZED WITH GRASS AS SOON AS PRACTICAL, BUT NOT EXCEEDING FOURTEEN (14) DAYS AFTER WORK HAS CEASED. TEMPORARY GRASS SHALL BE APPLIED IN AREAS WHERE FUTURE CONSTRUCTION WILL RE-DISTURB THIS AREA, OTHERWISE PERMANENT GRASS SHALL BE APPLIED.
- IN ANY AREA IN WHICH TEMPORARY GRASS HAS BEEN APPLIED, THE GRASS SHALL BE MOWED AND THE SEED BED RE-SCARIFIED BEFORE PERMANENT GRASS APPLICATION.
- GRASSING BE BASED ON TYPE OF SOD
- THE CONTRACTOR SHALL PROVIDE A CERTIFIED LETTER INDICATING THE QUANTITIES OF MATERIAL APPLIED PER ACRE.
- BEFORE ACCEPTANCE OF THE SEEDING PERFORMED FOR THE ESTABLISHMENT OF PERMANENT VEGETATION, THE CONTRACTOR WILL BE REQUIRED TO PRODUCE A UNIFORM VEGETATIVE COVER WITH A DENSITY OF 80% OF THE SEEDED AREA.
- PERMANENT GRASS SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITH THE FOLLOWING CRITERIA:
  - LIME SHALL BE AGRICULTURAL GRADE GROUND LIMESTONE CONTAINING LEAST 34% MAGNESIUM CARBONATE.
  - SEED SHALL BE A MINIMUM 90% PURITY AND 80% GERMINATION.
  - AREAS TO HAVE GRASS APPLIED SHALL BE SCARIFIED CULTIVATED TO A DEPTH OF 3 INCHES, WITH ALL CLODS OR CLUMPS GREATER THAN 3" BROKEN UP AND FOREIGN MATERIAL INCLUDING ROCK, ROOTS, AND MISC. DEBRIS REMOVED.
  - FERTILIZER AND LIME SHALL BE THOROUGHLY WORKED INTO THE SOIL AND THE SURFACE RAKED SMOOTH BEFORE APPLYING SEED.
  - SEED SHALL BE APPLIED EVENLY AT THE MINIMUM RATE AND RAKED IN LIGHTLY WITH APPROXIMATELY 1/4" TOPSOIL COVER. SEEDED AREAS SHALL BE DRESSED SMOOTH, THEN MULCH (STRAW) SHALL BE APPLIED MECHANICALLY.
  - AREAS SHALL BE SPRAYED IMMEDIATELY WITH AN EMULSION TO BIND SEED AND MULCH.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL MAINTENANCE NECESSARY TO KEEP SEEDED AREAS IN SATISFACTORY CONDITION UNTIL THE WORK IS ACCEPTED. THIS INCLUDES MOWING, IRRIGATING, REPAIRING OF EROSION WASHES, AND ADDITIONAL SEED, FERTILIZER AND MULCH APPLIED TO AREAS WHERE A SATISFACTORY STAND OF GRASS HAS NOT BEEN ACHIEVED. ALL COSTS INCLUDING IRRIGATING AND MOWING TO BE INCLUDED IN BASE BID PRICE.
- PAYMENT TO THE CONTRACTOR SHALL NOT EXCEED 75% OF THE CONTRACT PRICE FOR GRASS UNTIL A SATISFACTORY STAND OF PERMANENT GRASS HAS BEEN OBTAINED.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STAND OF GRASS WITH A ROOT SYSTEM THAT HAS DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE CONTRACTOR SHALL WARRANT ALL GRASS FOR A PERIOD OF 1 YEAR BEGINNING FROM THE DATE OF ACCEPTANCE BY THE OWNER/ENGINEER.
- ALL COSTS FOR PROVIDING AN ACCEPTABLE STAND OF GRASS (PERMANENT & TEMPORARY SEEDINGS) SHALL BE INCLUDED IN BASE BID. NO ADDITIONAL CHARGES WILL BE HONORED FOR REPAIRS DUE TO WEATHER OR OTHER REASONS. THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY AND COSTS FOR PROVIDING AN ACCEPTABLE STAND OF GRASS.

### TEMP. EROSION CONTROL SEEDING SPEC'S. SEEDBED PREPARATION:

**3:1 SLOPES OR FLATTER**

- APPLY AGRICULTURAL LIME AT A RATE OF 90 LBS/1000 S.F. UNLESS SOIL TEST INDICATES OTHERWISE.
- APPLY 10-10-10 COMMERCIAL FERTILIZER AT THE RATE OF 20 LBS/1000 S.F. UNLESS SOIL TEST INDICATES OTHERWISE.
- SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND APPLICATION RATES.

DATE	TYPE	PLANTING RATE
NOV. 1 TO MAY 1	ANNUAL RYE GRASS AND PERMANENT GRASSING (SEE ENG. SPECS. FOR DETAILS)	150 LBS/ACRE 100 LBS/ACRE
MAY 1 TO AUG. 15	GERMAN MILLET AND PERMANENT GRASSING (SEE ENG. SPECS. FOR DETAILS)	40 LBS/ACRE 100 LBS/ACRE
AUG. 15 TO NOV. 1	PERMANENT GRASSING (SEE ENG. SPECS. FOR DETAILS)	250 LBS/ACRE

MULCH WITH STRAW APPLIED AT THE RATE OF 75-100 LBS/1000 S.F.  
\*HEAVILY MULCHED DURING JANUARY - MARCH PERIOD.

IF GERMAN MILLET IS USED FOR TEMPORARY COVER DURING SUMMER MONTHS, CONTRACTOR MUST KEEP TEMPORARY MILLET MOWED AND CONTRACTOR MUST OVERSEED WITH THE SPECIFIED RATE OF TURF TYPE TALL FESCUE AFTER THE HEAT OF SUMMER IS PAST BUT NOT BEFORE SEPT. 15 NOR LATER THAN NOV. 1.

**SEEDBED PREPARATION:**

AREAS TO BE SEEDED SHALL BE RIPPED OR TILLED AND SPREAD WITH AVAILABLE TOPSOIL 4" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 6".

ROCKS, ROOTS AND OTHER OBSTRUCTIONS AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE SEEDBED. SURFACE OF COMPLETED PREPARED SEEDBED SHALL BE LOOSE, SMOOTH AND UNIFORM. CONTRACTOR SHALL TILL DISC AND/OR HARROW IF NECESSARY TO ACHIEVE THIS.

IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME SHALL BE APPLIED ACCORDING TO THE SEEDING SPECIFICATIONS.

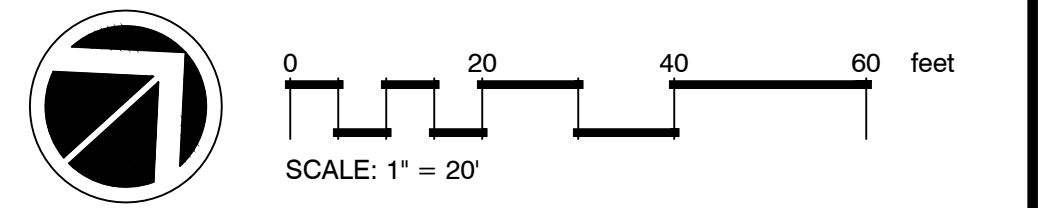
IF SOIL TEST IS TAKEN, APPLY FERTILIZER AND LIME IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS.

LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.

IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH A THIN SEED LAYER OF CLEAN WHEAT STRAW AND SPRAY WITH ASPHALT EMULSION @ A RATE SUFFICIENT TO BIND THE SEED AND STRAW.

T.K. GREGG CENTER

1 LANDSCAPE PLAN ENLARGEMENT EAST  
L3 SCALE: 1"=20'



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**SHEET TITLE:**  
LANDSCAPE PLAN EAST

**JOB #:**  
15023-01

**DATE:**  
01/28/22

**DRAWN:**  
TP/BB/KK/CL

**APPROVED:**  
TP

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	01/28/22	ISSUED TO BID
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4		
5		
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**THE STATE OF SOUTH CAROLINA**  
CERTIFICATE OF AUTHORIZATION  
The LandArt Design Group, Inc.  
No. 178

**WILLIAM T. PLETTS**

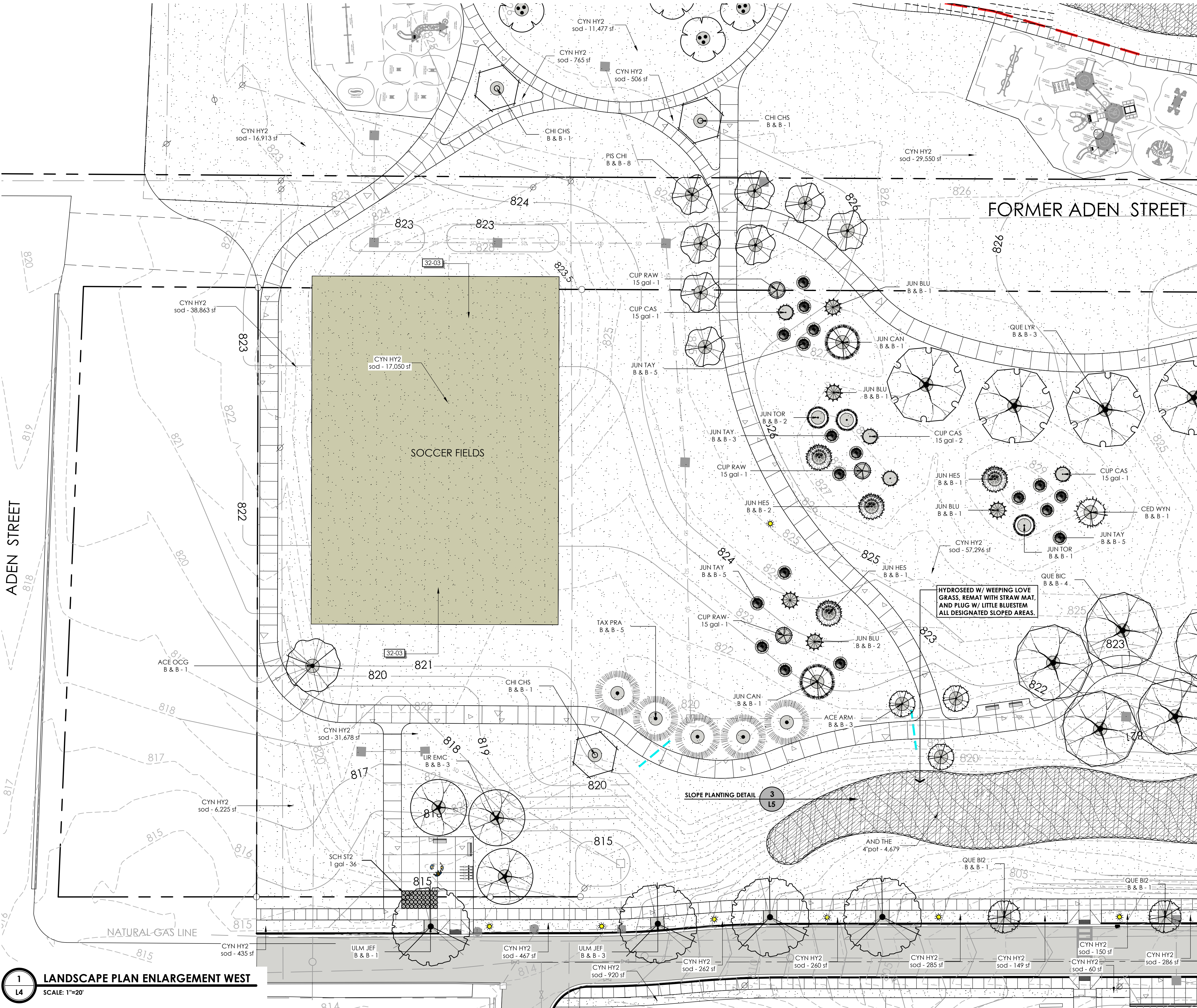
**SHEET**  
**L3**  
OF 17

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ADEN STREET

**1 LANDSCAPE PLAN ENLARGEMENT WEST**  
 SCALE: 1"=20'

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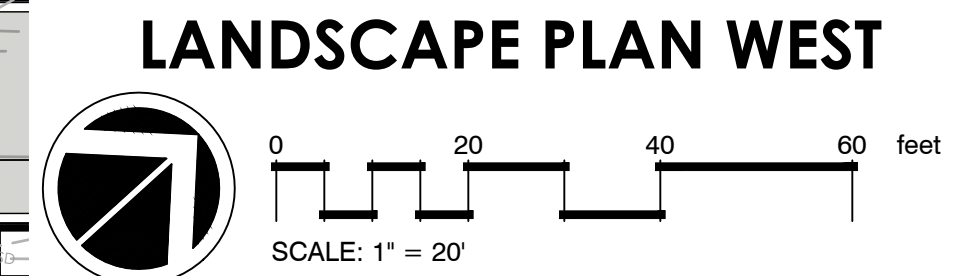


FORMER ADEN STREET

**TOP DRESSING MATERIAL FOR ATHLETIC FIELDS**

	Sieve fraction sand particle diameter (% retained)
Fine Gravel (>2.0 mm)	<5%
Very Coarse Sand (1.0-2.0 mm)	5-15%
Coarse Sand (0.5-1.0 mm)	20-30%
Medium Sand (0.25-0.5 mm)	30-45%
Fine Sand (0.1-0.25 mm)	10-18%
Very Fine Sand (0.05-0.1 mm)	2-5%
Silt (0.002-0.05 mm)	2-5%
Clay (<0.002 mm)	2-5%

- TOP DRESSING NOTES**
- ON FIELDS THAT WILL BE TOP DRESSED, ONLY THE PLAYING SURFACE SHALL BE TOP DRESSED.
  - CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE TO DETERMINE DATES AND TIMES FOR PERFORMING TOP DRESSING OF EACH FIELD.
  - APPROXIMATELY ONE WEEK BEFORE TOPDRESSING, APPLY A SELECTIVE HERBICIDE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR APPLICATION METHODS, RATES, AND SCHEDULES.
  - PRIOR TO TOP DRESSING THE FIELD, ALL SPRINKLER HEADS AND VALVE BOXES SHALL BE LOCATED AND MARKED SO AS NOT TO DAMAGE THEM DURING THE TOPDRESSING OPERATION. ANY DAMAGE CAUSED BY THE TOP DRESSING OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
  - ONE WEEK AFTER APPLICATION OF THE HERBICIDE, PERFORM CORE AERATION USING SUITABLE EQUIPMENT TO PROVIDE A HOLE 4" IN DEPTH OR DEEPER. OWNER RESERVES THE RIGHT TO APPROVE THE EQUIPMENT AND METHOD USED TO PERFORM AERATION. CORES SHALL BE DISPOSED OF ON THE PROJECT SITE IN A METHOD SELECTED BY OWNER.
  - AFTER AERATION IS COMPLETE, UNIFORMLY SPREAD WASHED RIVER SAND OR COMPARABLE COARSE PARTICLE SIZE SAND OVER THE ENTIRE AREA AT THE RATE OF 40 TONS / ACRE. TOPDRESSING IS TO BE SMOOTHLY "DRAGGED IN", USING OWNER APPROVED EQUIPMENT AND METHODS, IN SUCH A MANNER AS NOT TO HARM ESTABLISHED TURF.
  - AFTER SAND IS SPREAD, APPLY A SLOW RELEASE 18-24-12 FERTILIZER AT THE RATE OF 350LBS. / ACRE. CONTRACTOR SHALL IMMEDIATELY CONTACT OWNER AFTER APPLICATION OF FERTILIZER SO WATERING SCHEDULES CAN BE ADJUSTED.



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**SHEET TITLE:**  
 LANDSCAPE PLAN WEST

**JOB #:**  
 15023-01

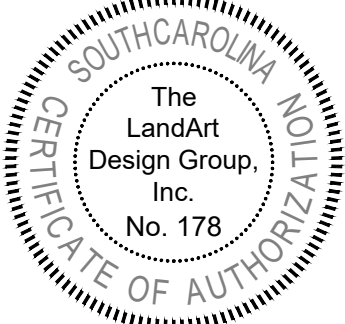
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**DRAWN:**  
 TP/BB/KK/CL

**APPROVED:**  
 TP

**REVISIONS:**

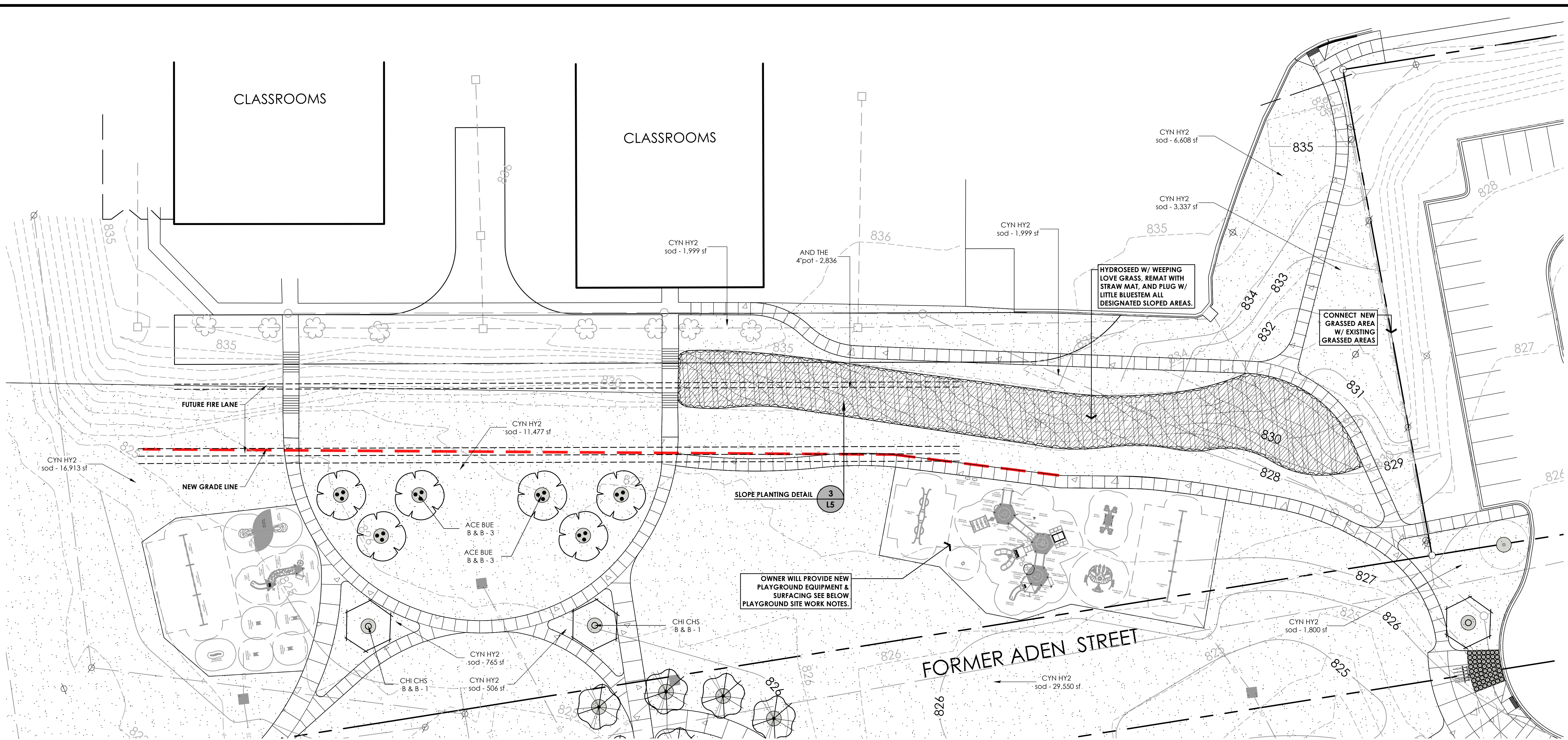
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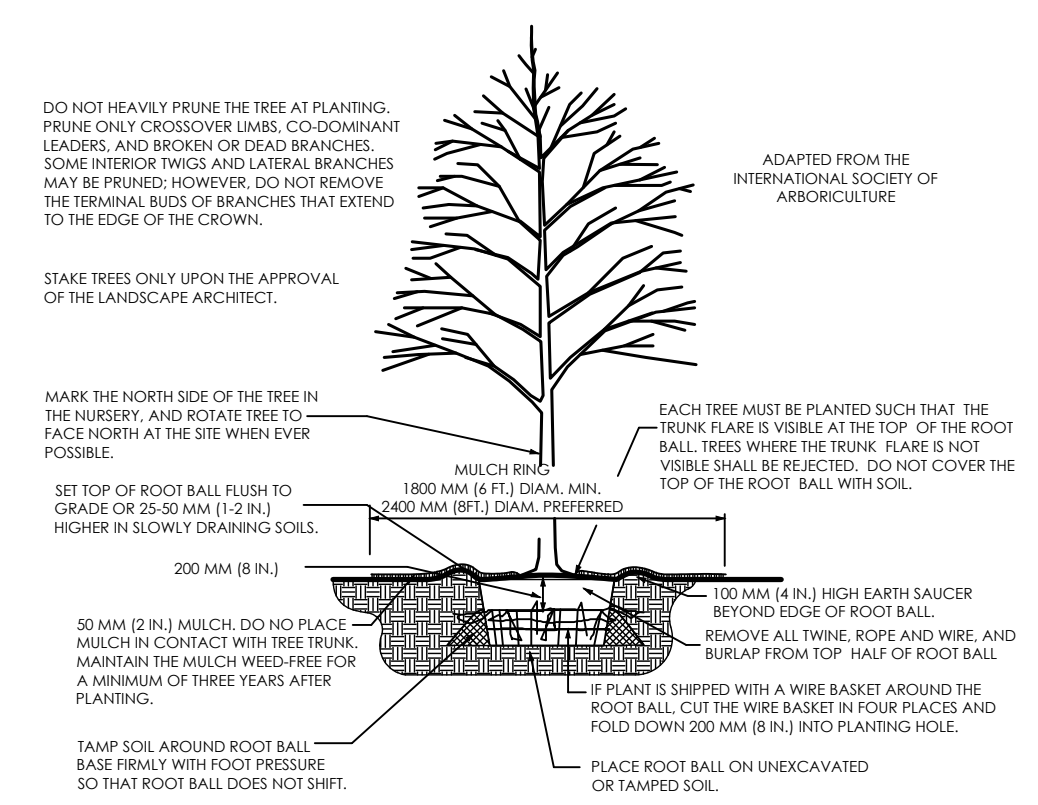
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**L4**  
 OF L7



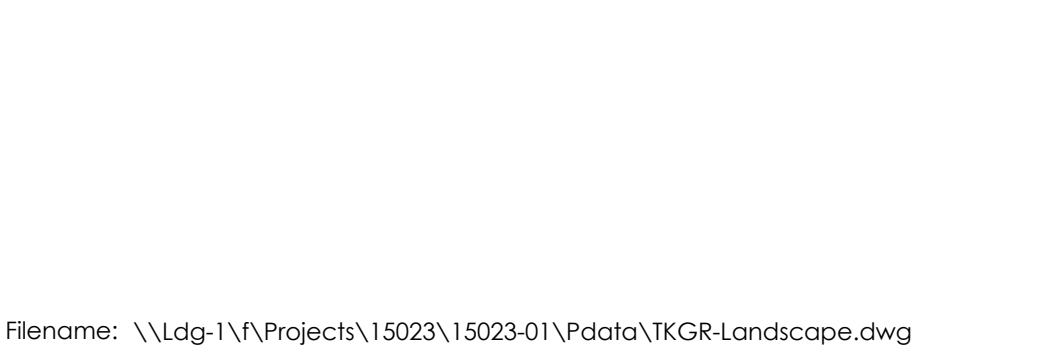
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**1 SCHOOL DISTRICT LANDSCAPE PLAN**  
 L5 SCALE: 1"=20'

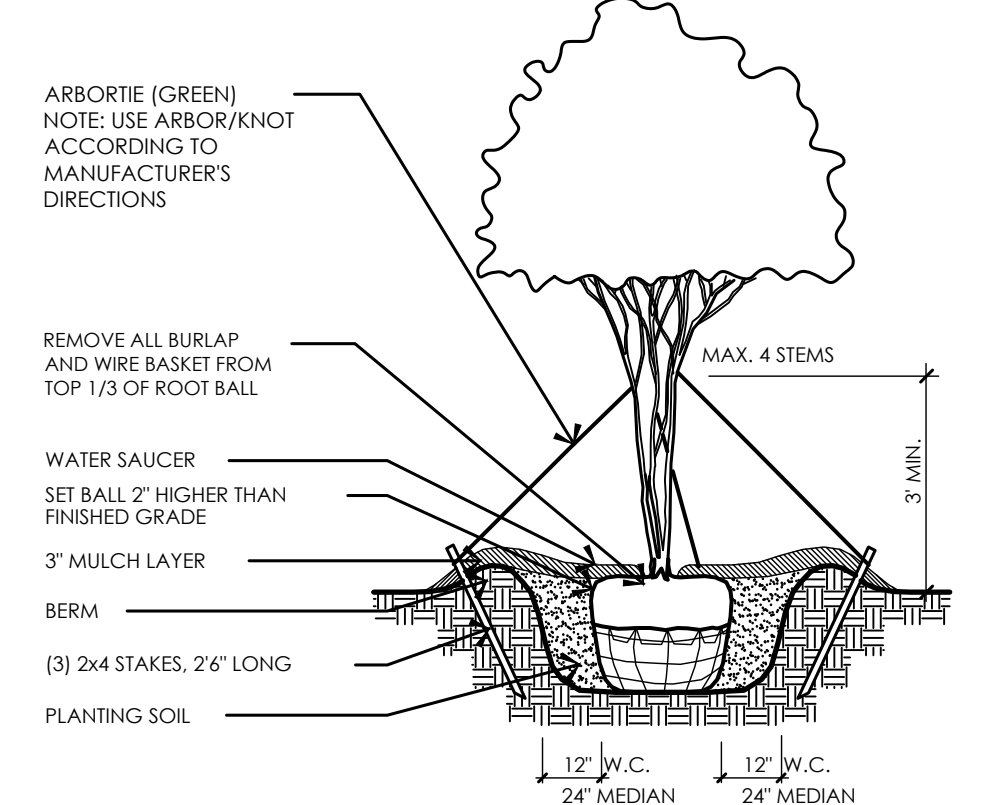


**2 PLANTING DETAILS**  
 L5 SCALE: N.T.S.



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**3 SLOPE PLANTING DETAIL**  
 L5 SCALE: N.T.S.



**3 SLOPE PLANTING DETAIL**  
 L5 SCALE: N.T.S.



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 Plot Time: 1/28/2022 2:56:14 PM

**SCHL. DIST. LANDSCAPE PLAN**

0 20 40 60 feet  
 SCALE: 1" = 20'

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**SHEET TITLE:** SCHOOL DISTRICT LANDSCAPE PLAN  
**JOB #:** 15023-01  
**DATE:** 01/28/22  
**DRAWN:** TP/BB/KK/CL  
**APPROVED:** TP

**REVISIONS:**

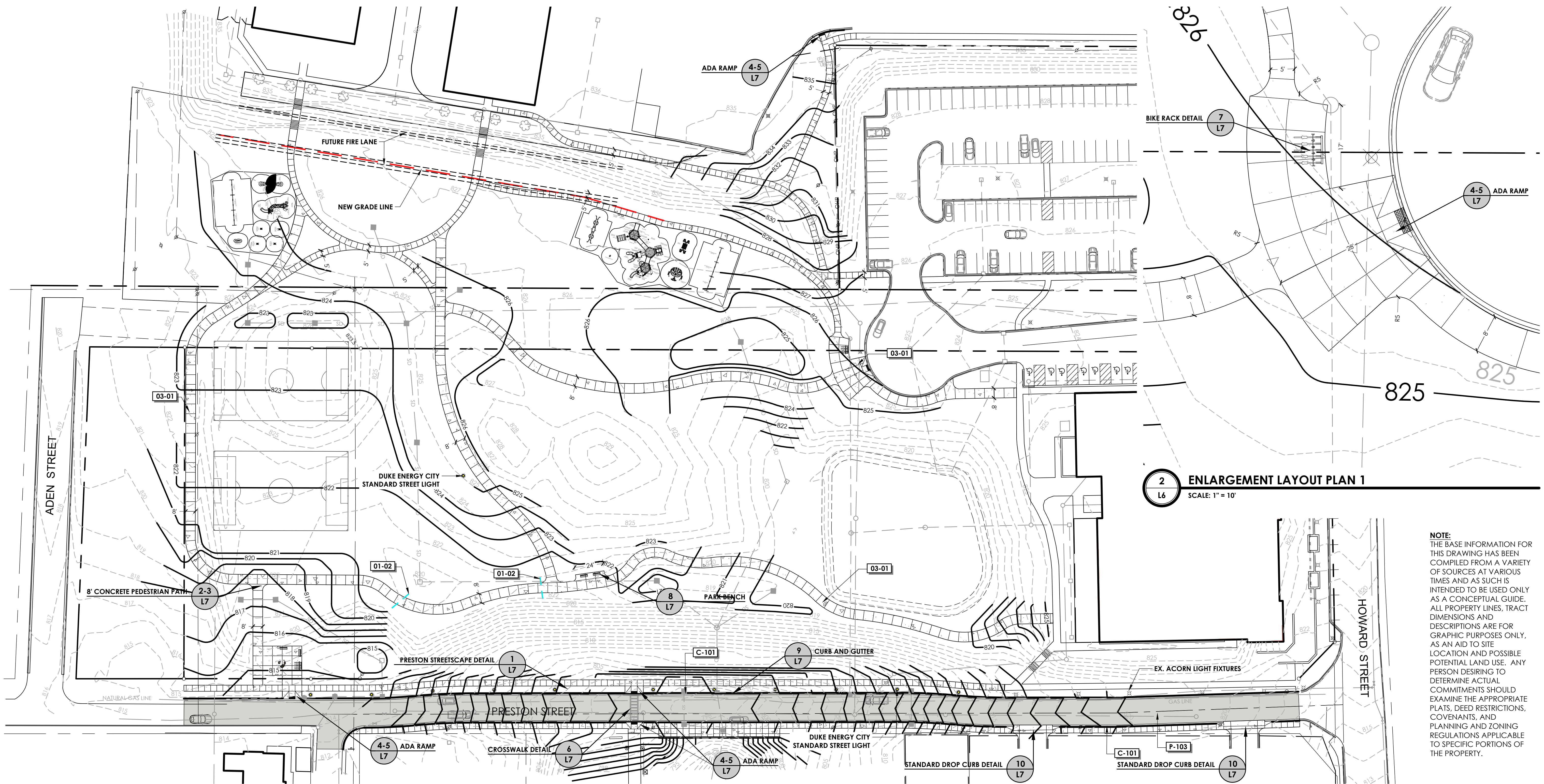
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**THE SOUTH CAROLINA SOCIETY OF ARCHITECTS**  
 The LandArt Design Group, Inc.  
 No. 178  
 CERTIFICATE OF AUTHORIZATION

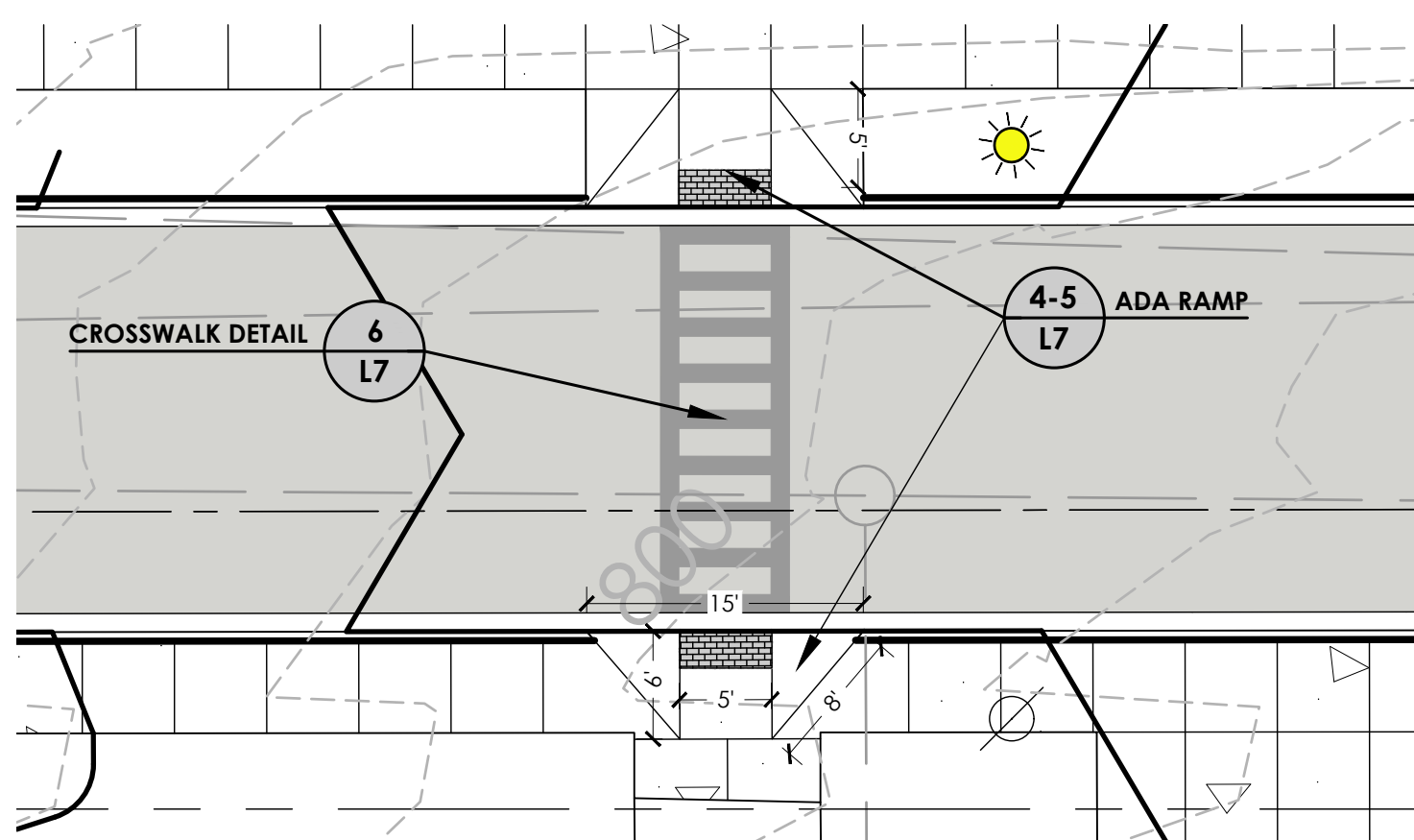
**WILLIAM T. PLITS**

**SHEET**  
**L5**  
 OF L7

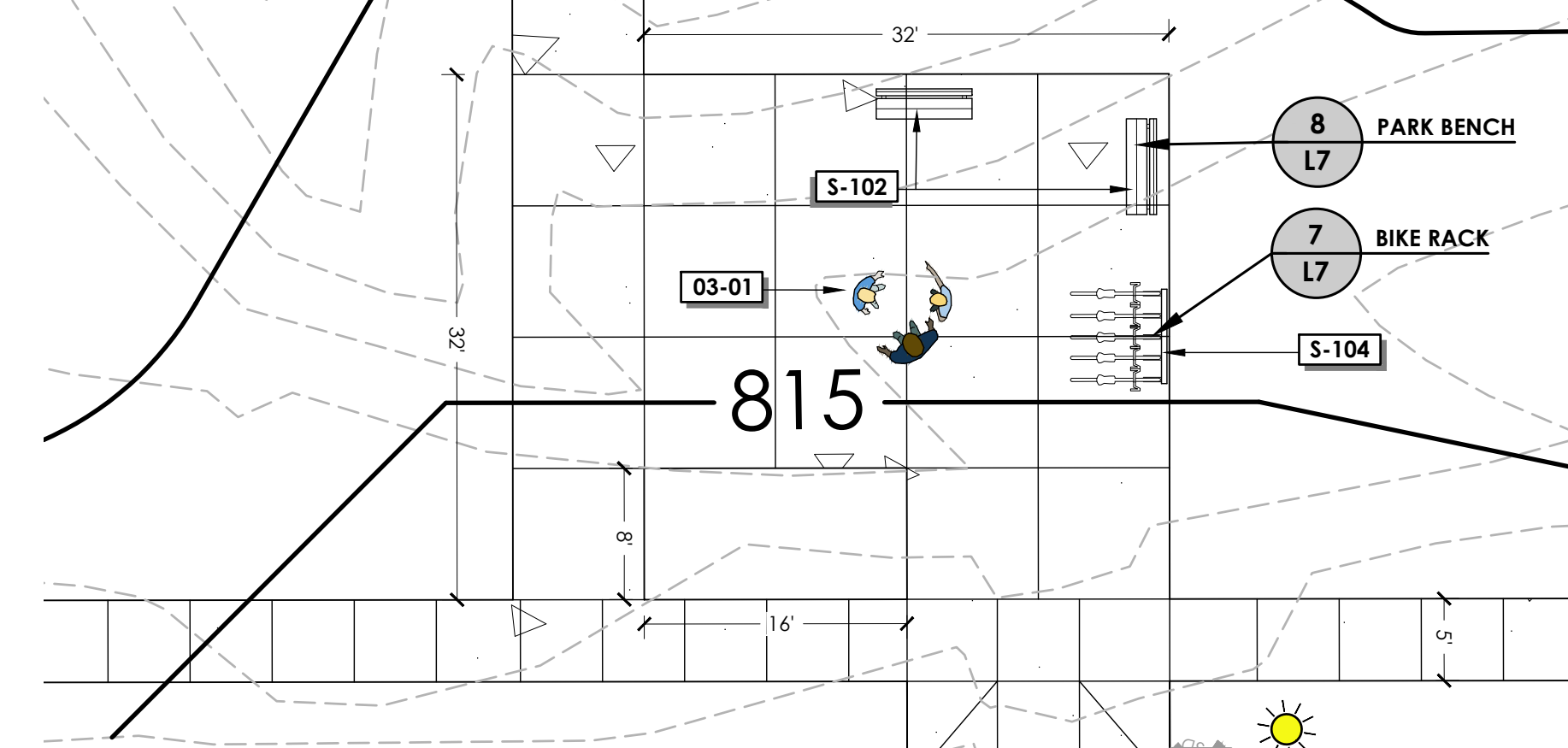
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**1 LAYOUT PLAN**  
L6 SCALE: 1" = 40'



**3 ENLARGEMENT LAYOUT PLAN 2**  
L6 SCALE: 1" = 10'



**4 ENLARGEMENT LAYOUT PLAN 2**  
L6 SCALE: 1" = 10'

**2 ENLARGEMENT LAYOUT PLAN 1**  
L6 SCALE: 1" = 10'

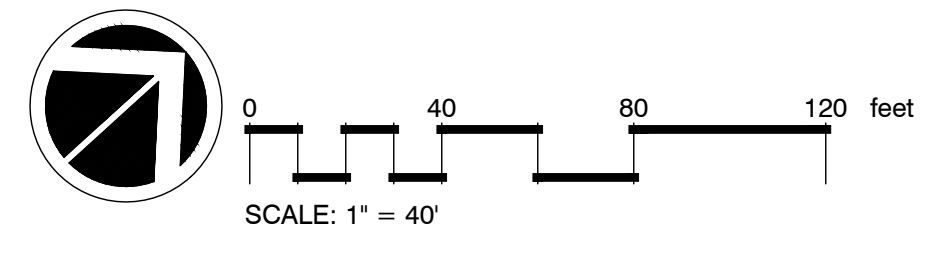
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**REFERENCE NOTES SCHEDULE**

SYMBOL	01 GENERAL DESCRIPTION	QTY	DETAIL
01-02	SCHEDULE 40 - 4" SLEEVE	36 LF	
03-01	5" CONCRETE BROOM FINISHED WALKS	89,708 SF	
C-101	6" CONCRETE CURB	1,588 LF	
P-103	ASPHALT PAVING	19,531 SF	
S-102	6" BENCH	4	
S-104	MADRAX ORN-2-IG 2 BIKE CAPACITY BIKE RACK WITH IN GROUND MOUNT. (COLOR: BRONZE SUPER TIGIC POWDER COAT)	2	

**LIGHTING SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
☼	CITY STANDARD DECORATIVE STREET LIGHT	12	



**DR. T K GREGG GREENSPACE**  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA



**SHEET TITLE:**  
LAYOUT PLAN

**JOB #:**  
15023-01

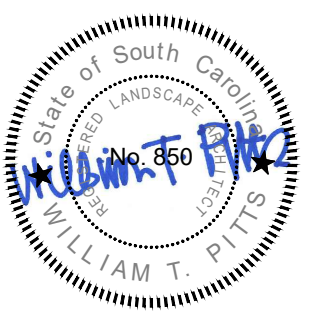
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TP/BB/KK/CL

**APPROVED:**  
TP

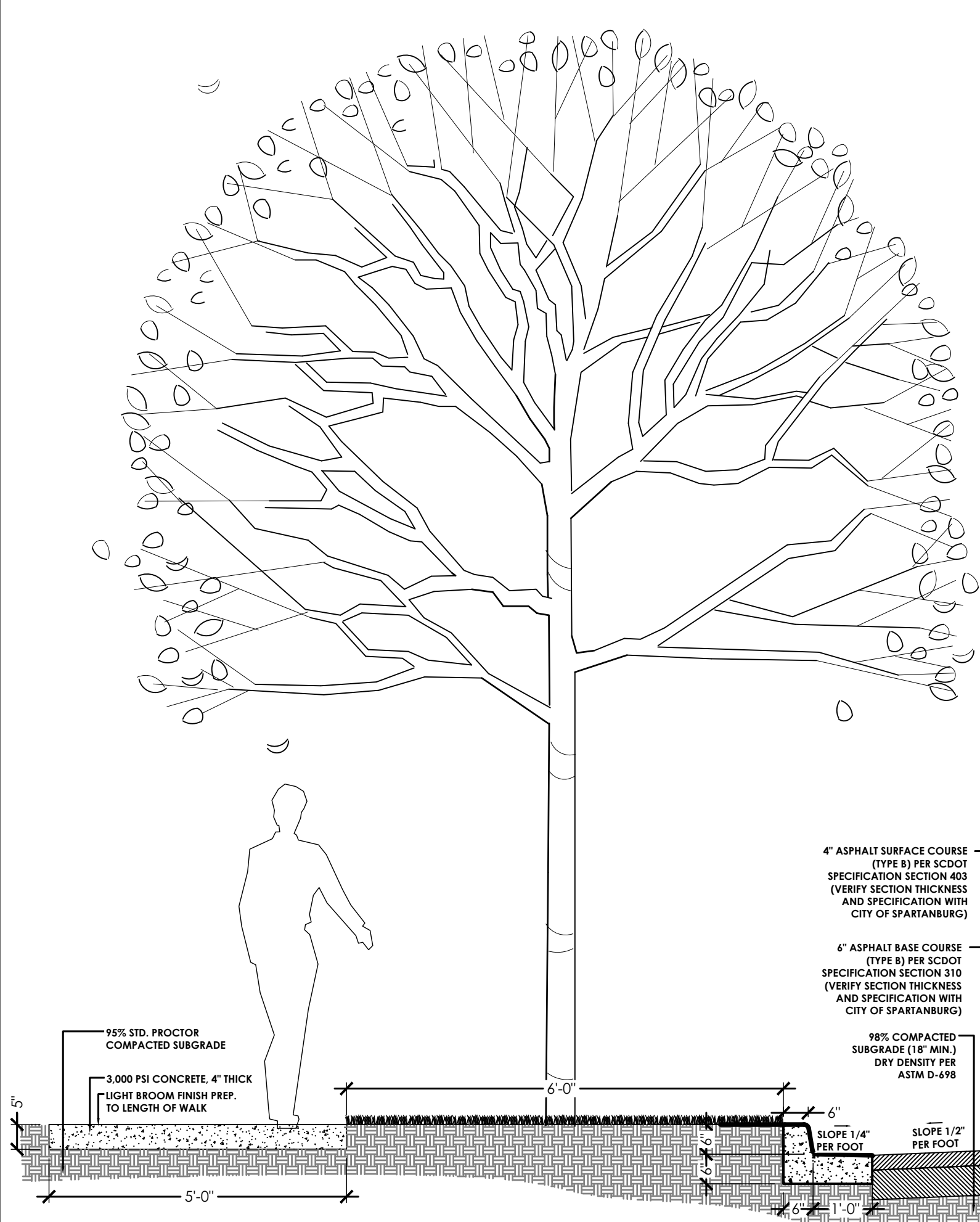
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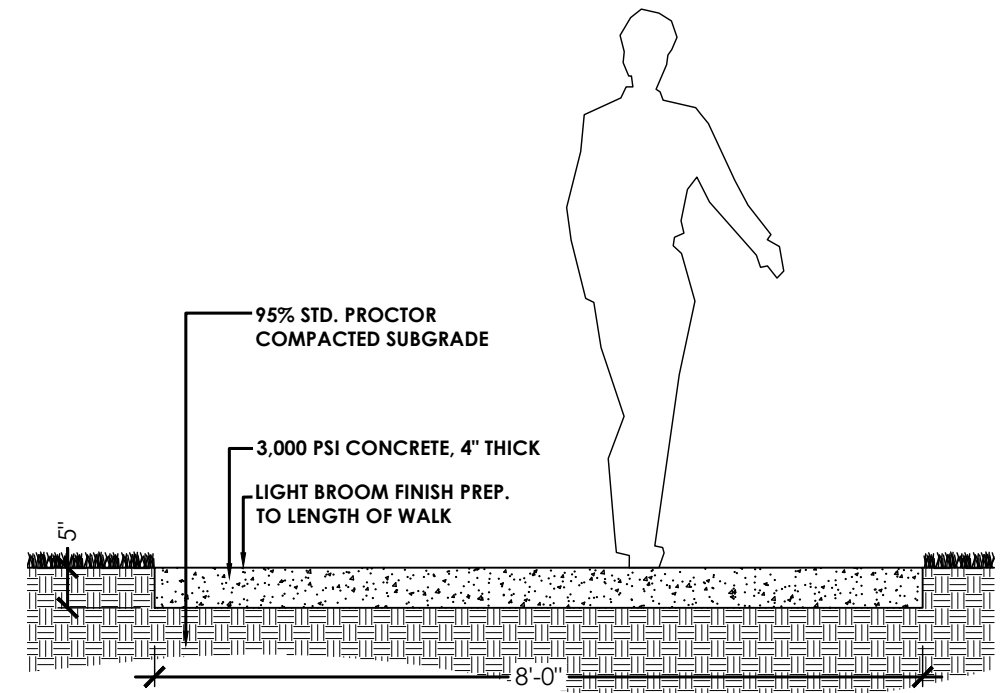


**SHEET**  
**L6**  
OF L7

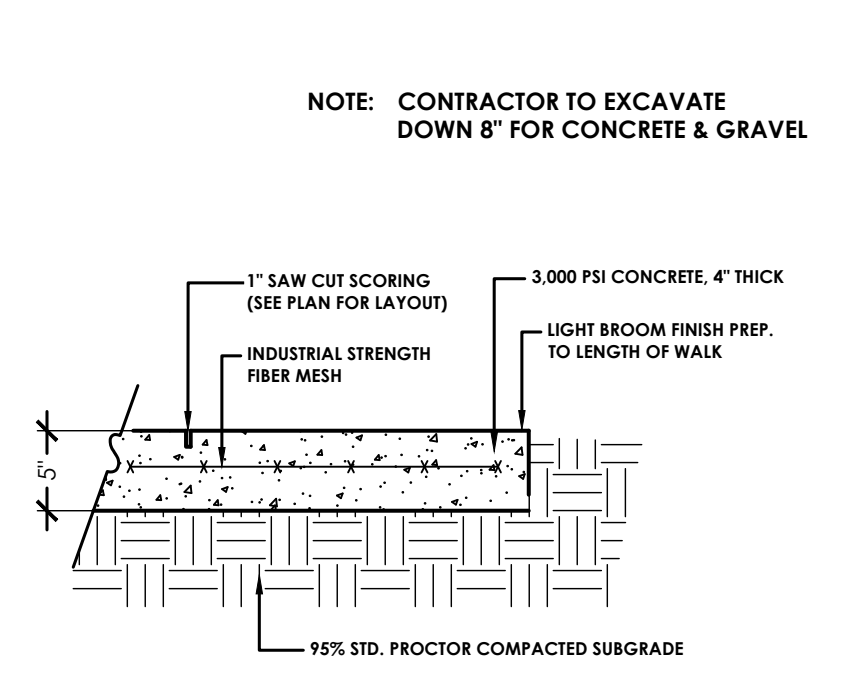
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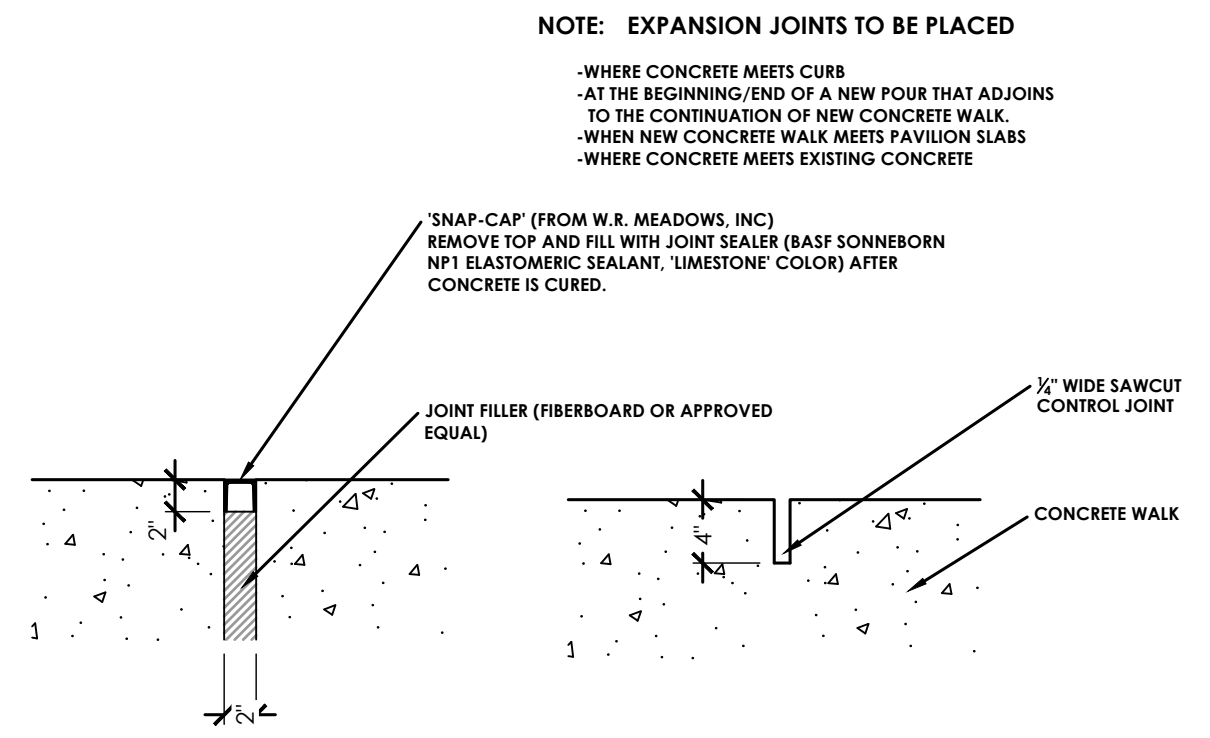
**1 PRESTON STREET STREETScape SECTION DETAIL**  
SCALE: 1/2"=1'-0"



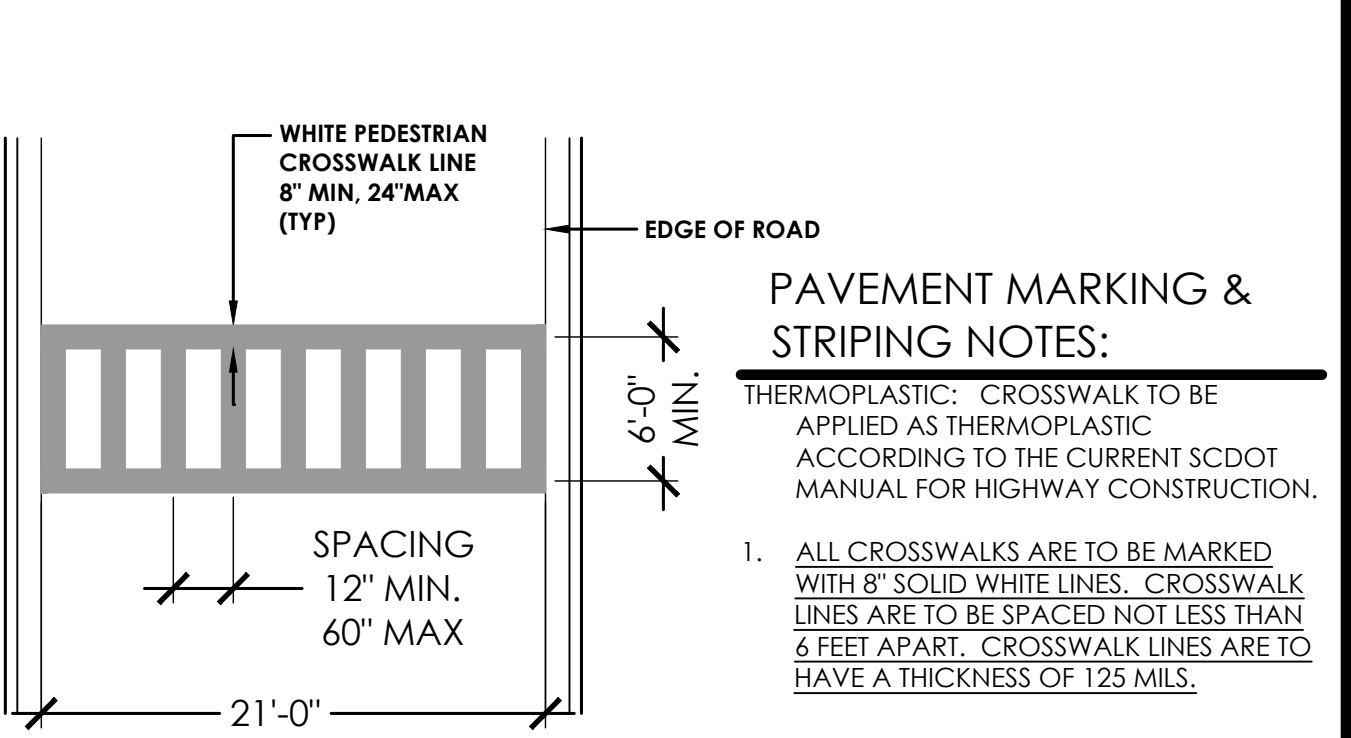
**2 8' PEDESTRIAN PATH DETAIL**  
SCALE: 1"=1'-0"



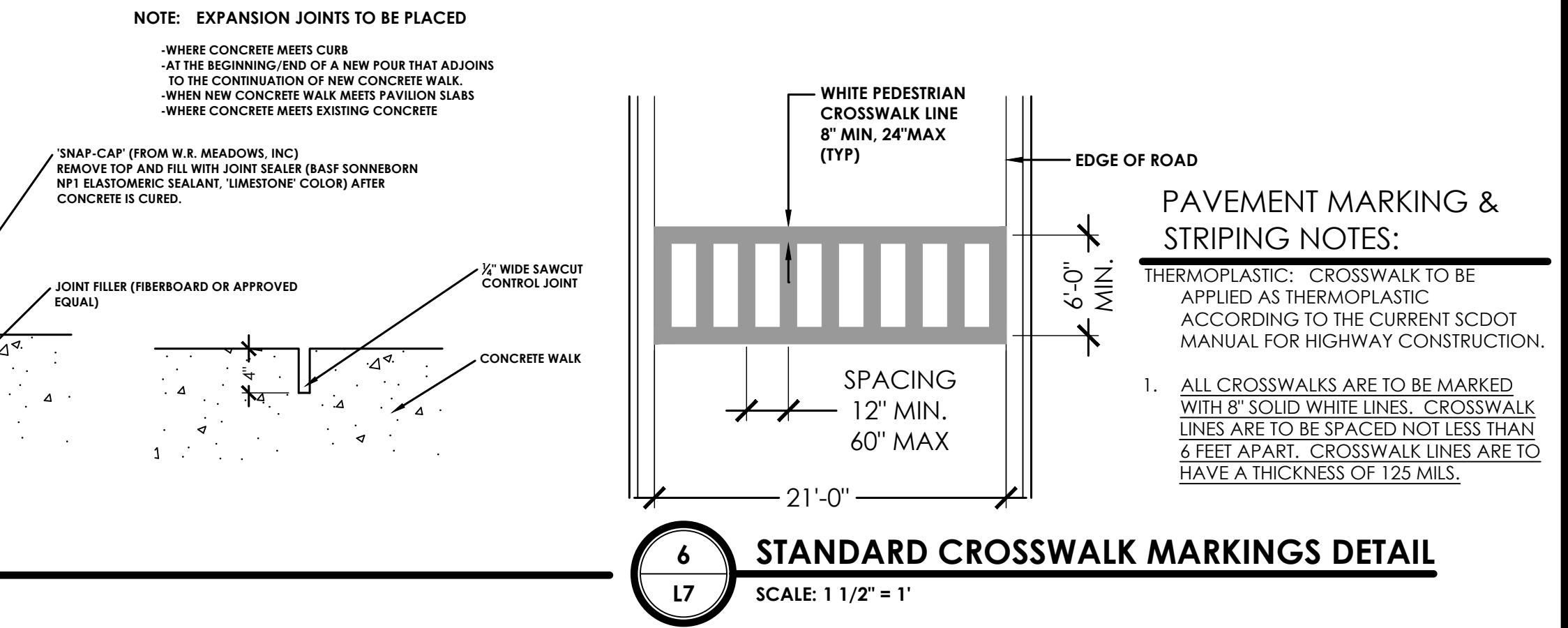
**3 CONCRETE PATH DETAIL**  
SCALE: 1"=1'-0"



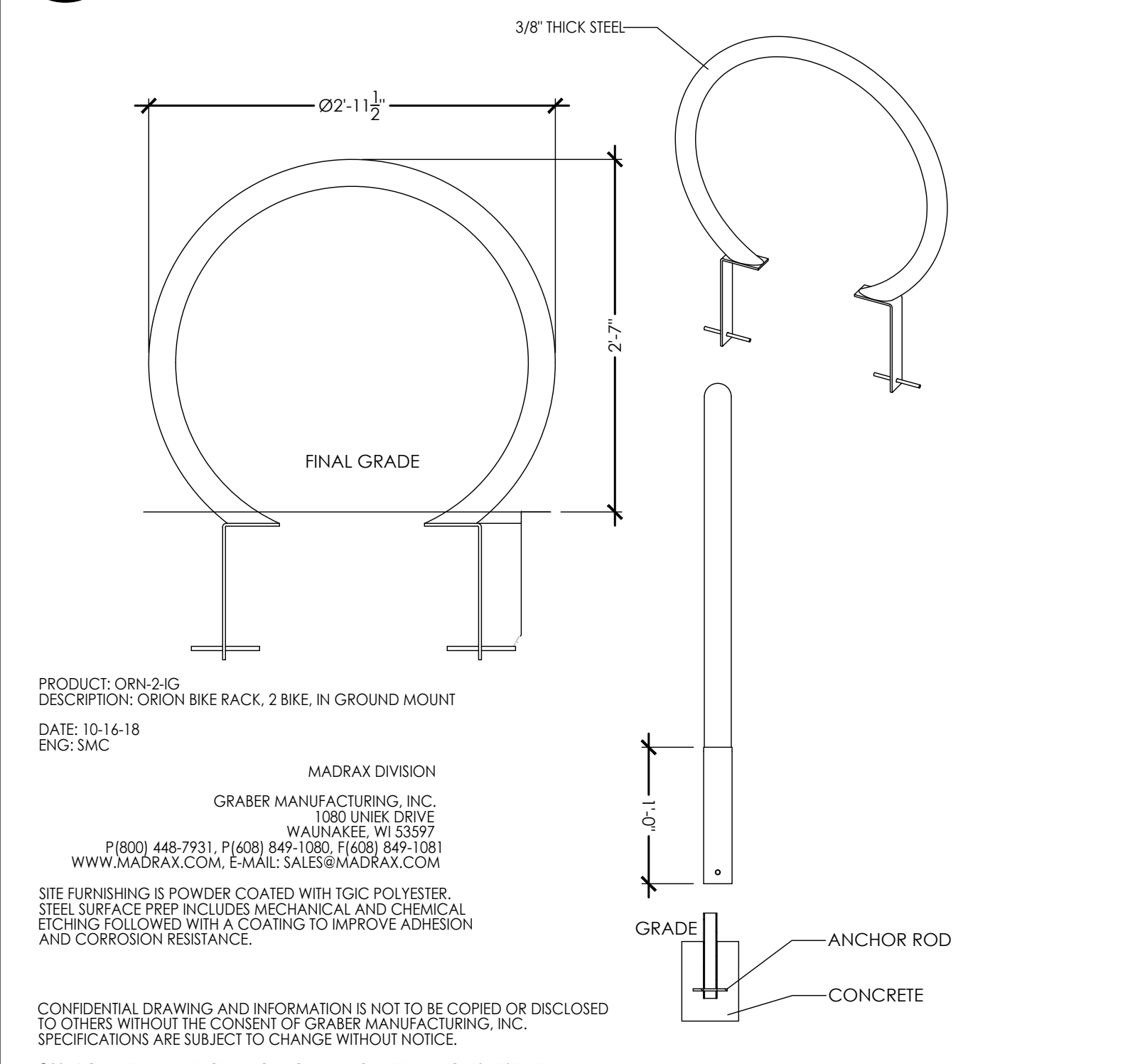
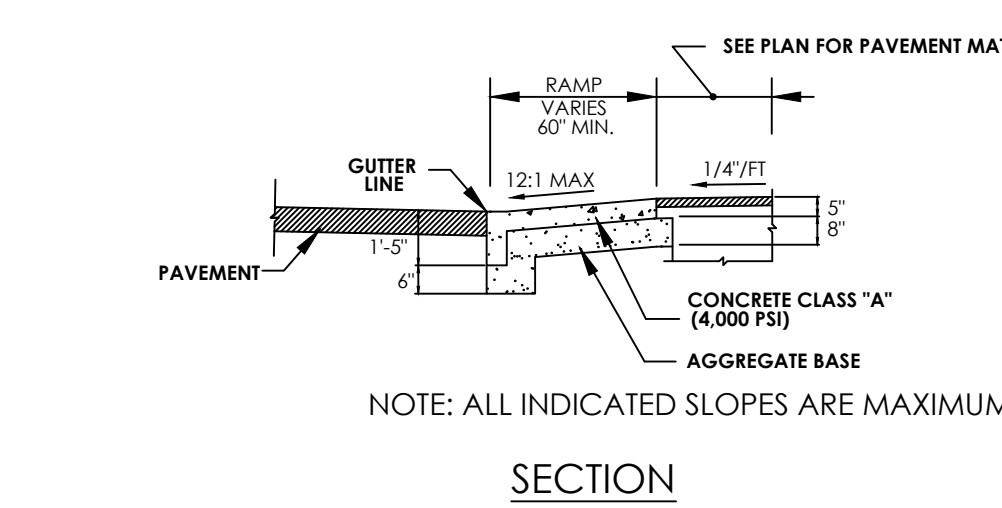
**4 ADA RAMP DETAIL**  
SCALE: 1 1/2"=1'



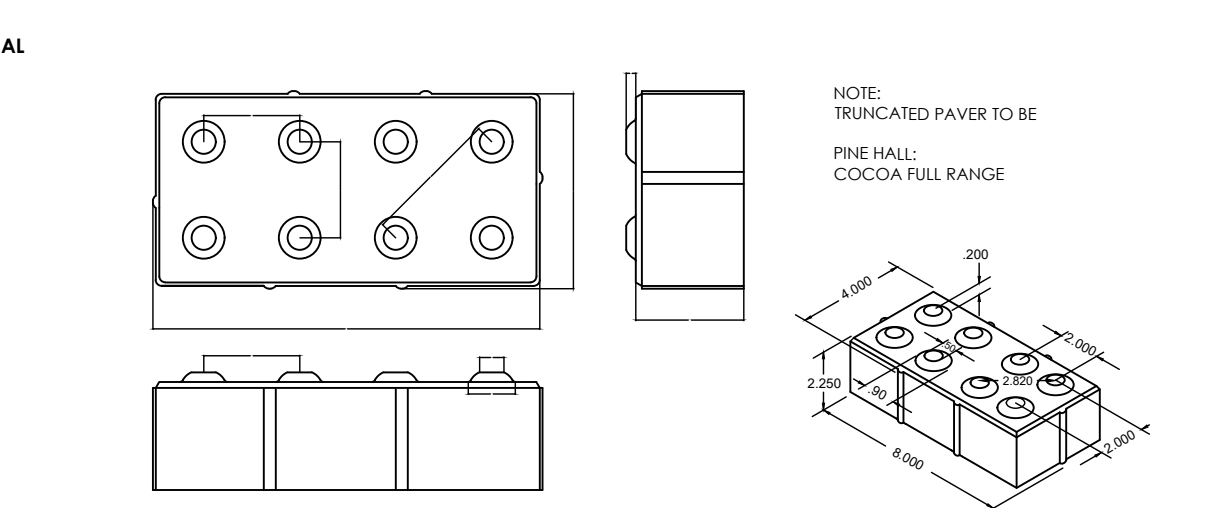
**5 PINEHALL TRUNCATED ADA BRICK PAVER**  
SCALE: 1/4"=1'



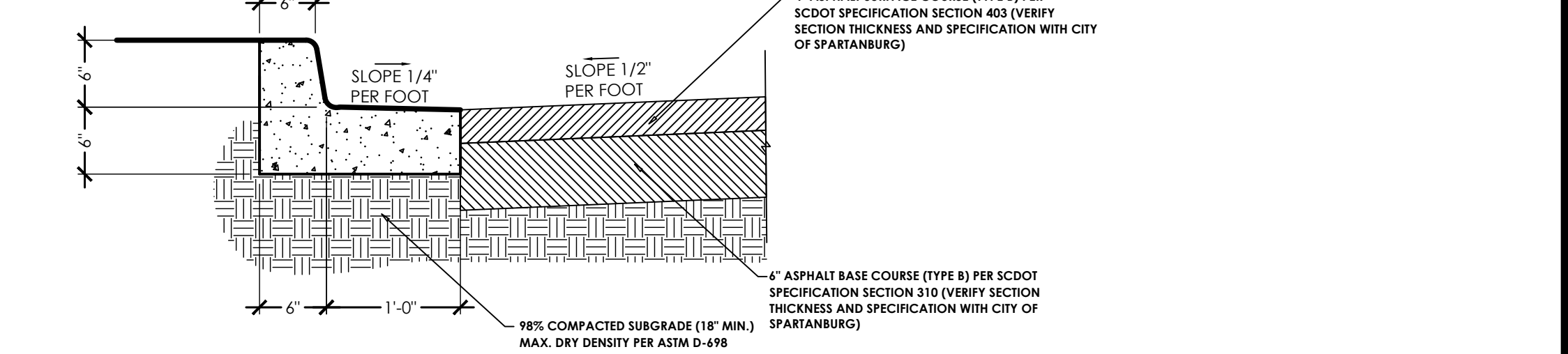
**6 STANDARD CROSSWALK MARKINGS DETAIL**  
SCALE: 1 1/2"=1'



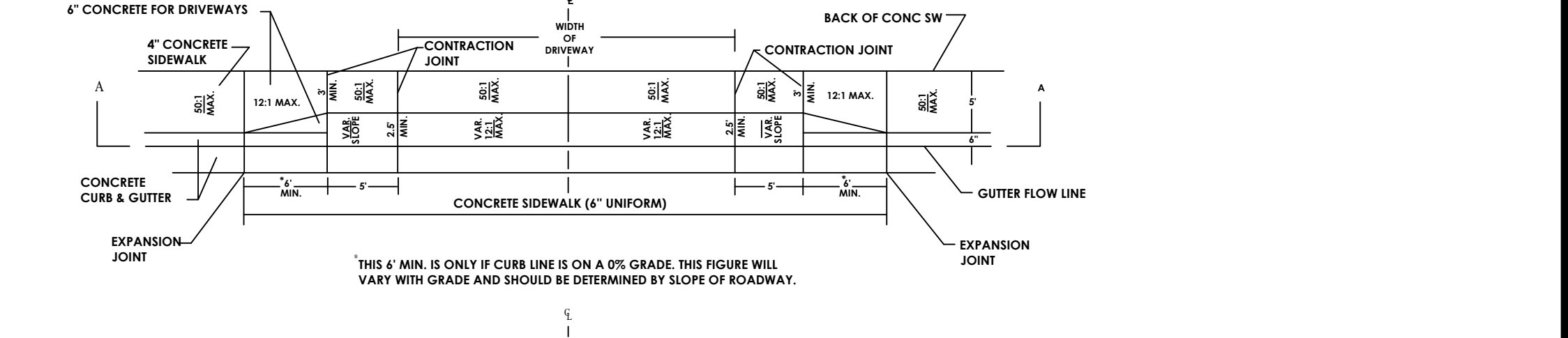
**7 MADRAX ORION BIKE RACK**  
SCALE: 1"=1'-0"



**8 PARK BENCHES DETAIL**  
SCALE: 1/2"=1'-0"



**9 PRESTON STREET 18\"/>**



**10 STANDARD DROP CURB DETAIL**  
SCALE: NTS

PRODUCT: ORN-24G  
DESCRIPTION: ORION BIKE RACK, 2 BIKE, IN GROUND MOUNT  
DATE: 10-16-18  
ENG: SMC  
MADRAX DIVISION  
GRABER MANUFACTURING, INC.  
1080 UNIK DRIVE  
WAUNAKEE, WI 53597  
P(800) 448-7931, P(408) 849-1080, F(408) 849-1081  
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM  
SITE FURNISHING IS POWDER COATED WITH TGIC POLYESTER. STEEL SURFACE PREP INCLUDES MECHANICAL AND CHEMICAL ETCHING FOLLOWED WITH A COATING TO IMPROVE ADHESION AND CORROSION RESISTANCE.  
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WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM  
CRB-2 26"  
CRB-4 49"  
CRB-5 61"  
CRB-6 5'-11" (SHOWN)  
CRB-8 96"  
1 5/8\"/>

DRIVEWAY LAYOUT AND CONSTRUCTION SHALL CONFORM TO SCOT STANDARD DRAWING NO. 720-410-00, SECTIONS AND DIMENSIONS SHOWN HEREIN ARE FOR REFERENCE ONLY.  
NOTES:  
1. WHERE THE WIDTH OF A DRIVEWAY IS 15 FT. OR GREATER, A CONNECTION JOINT SHALL BE PLACED IN THE CENTER OF THE DRIVE. IF THE WIDTH EXCEEDS 30 FT. TWO JOINTS SHALL BE USED.  
2. DRIVEWAYS TO BE CONSTRUCTED WHERE DESIGNATED BY THE ENGINEER.  
3. CONCRETE CURB THRU DRIVEWAY TO BE MEASURED AND PAID FOR AS CURB & GUTTER EVEN WHEN CURB IS DROPTED.  
4. ALL SIDEWALKS ARE TO BE CONSTRUCTED ON A 50:1 MAX. CROSS SLOPE. ALL OTHER SLOPES OF THE SIDEWALKS ARE TO BE A 12:1 MAX. SIDEWALKS SHALL BE BUILT IN ACCORDANCE WITH THE SC DOT TRANSITION PLAN, SECTION 14.  
5. FOR CURB OR INTEGRAL CURB DETAILS SEE STANDARD DRAWING NO. 720-1.  
ISOMETRIC VIEW  
SECTION B-B  
SECTION C-C  
SECTION D-D

PRODUCT: CRB-412.4.5.81  
DESCRIPTION: CARNIVAL BENCH, HORIZONTAL STRAP  
DATE: 6-12-13  
ENG: SMC  
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ALL STEEL SHALL RECEIVE THOMAS STEEL'S UNIQUE E-STEEL-TRI-COAT FINISH. ALL STEEL PARTS SHALL BE SHOT-BLASTED, ZINC PHOSPHATIZED, EPOXY E-COAT DIPPED AND TOP COATED WITH ELECTROSTATICALLY APPLIED TGIC POLYESTER POWDER COAT FINISH. ZINC PHOSPHATE AND EPOXY E-COATING SHALL FILL ALL CREVICES. PARTS SHALL HAVE A MAXIMUM FILM BUILD OF 2 MILS TO REDUCE CHIPPING AND SCALFING.  
E-STEEL-FINISH SHALL HAVE A 5 YEAR WARRANTY.  
SITE FURNISHING IS POWDER COATED WITH TGIC POLYESTER. STEEL SURFACE PREP INCLUDES MECHANICAL AND CHEMICAL ETCHING FOLLOWED WITH A COATING TO IMPROVE ADHESION AND CORROSION RESISTANCE.

CONSTRUCTION DETAILS  
811  
Know what's below.  
Call before you dig.  
http://www.call811.com/  
YOU ARE REQUIRED TO CALL AT LEAST 3 WORKING DAYS BEFORE YOU DIG.  
SHEET L7 OF L7  
REVISIONS:  
1. 2. 3. 4. 5. 6.

DR. T K GREGG GREENSPACE  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA

**LANDART**  
landscape architecture  
641 E. Main St. / Spartanburg, SC 29302  
phone 803.535.1000 / fax 803.535.1000  
landart@landartgroup.com / info@landartgroup.com

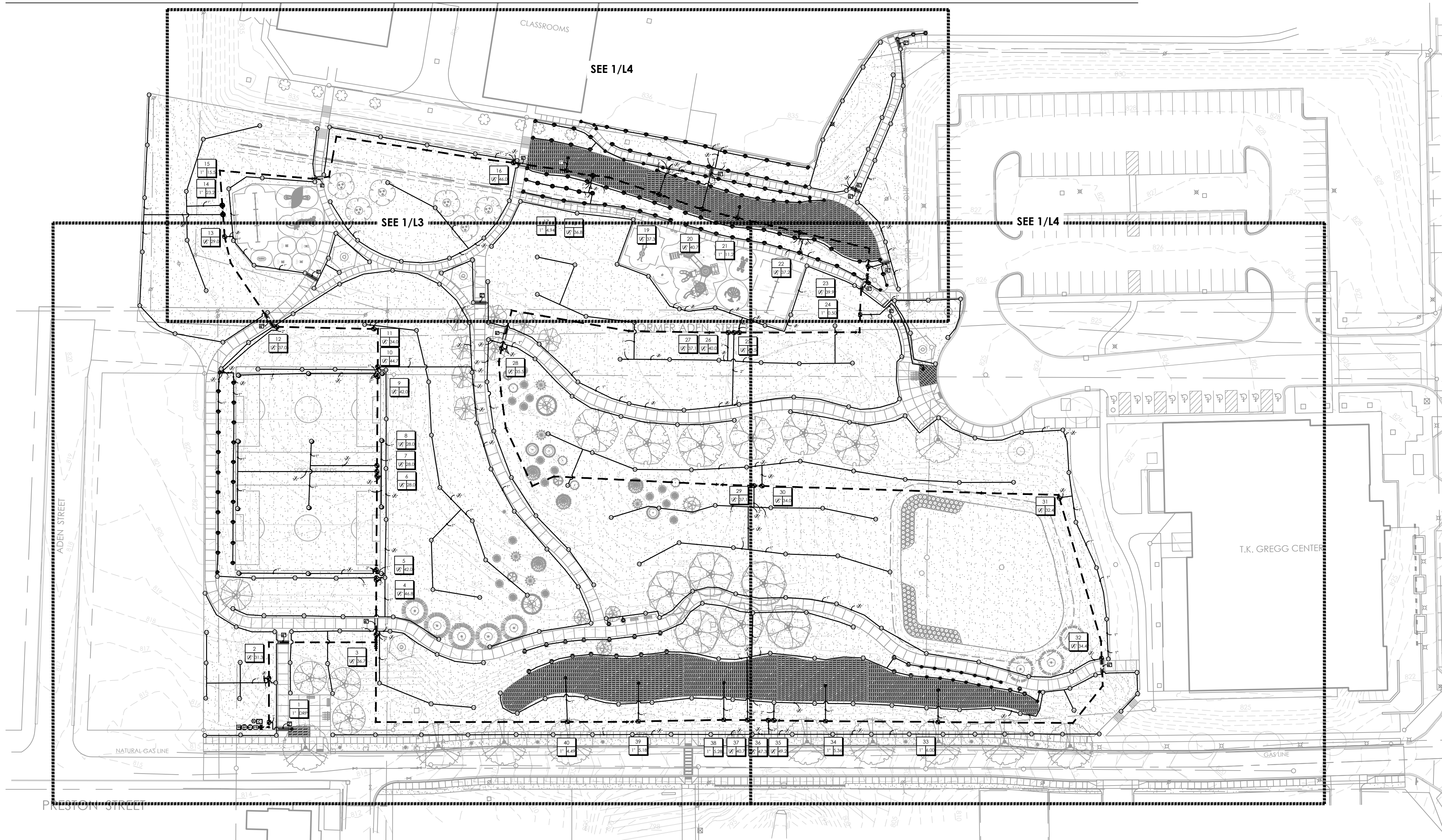
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JOB #: 15023-01  
DATE: 01/28/22  
DRAWN: TP/BB/KK/CL  
APPROVED: TP

REVISIONS:  
1. 2. 3. 4. 5. 6.

South Carolina  
Professional Seal  
The LandArt Design Group, Inc.  
No. 178  
WILLIAM T. PLITS

# DR. TK GREGG COMMUNITY CENTER TRAIL

CITY OF SPARTANBURG, SOUTH CAROLINA



**1** OVERALL IRRIGATION PLAN  
IR1 SCALE: 1"=50'

## PROJECT INFORMATION

**OWNER:**  
City of Spartanburg  
PO Box 1749  
Spartanburg, SC 29304  
Phone: (864) 562-4398

Tim Carter  
tcarter@cityofspartanburg.org

**CIVIL ENGINEER:**  
Blackwood Associates, Inc.  
PO Box 366  
Spartanburg, SC 29304  
Phone: (864) 583-5432

Trey Blackwood, PE  
tblackwood@baigroup.net

**IRRIGATION DESIGNER:**  
SITE ONE  
637 Marina Dr.  
Charleston, SC 29492  
Phone: (843) 216-7980

Charles Cannon  
ccannon@siteone.com

**LANDSCAPE ARCHITECT:**

Sheet List Table	
Sheet Number	Sheet Title
L1	COVER
L2	LANDSCAPE PLAN EAST
L3	LANDSCAPE PLAN WEST
L4	SCHOOL DISTRICT LANDSCAPE PLAN
L5	LAYOUT PLAN
L6	CONSTRUCTION DETAILS
L7	CONSTRUCTION DETAILS (2)
L8	PAVILION DETAILS
IR1	OVERALL IRRIGATION
IR2	IRRIGATION PLAN EAST
IR3	IRRIGATION PLAN WEST
IR4	SCHOOL DISTRICT IRRIGATION
IR5	LEGEND AND DETAILS

**SHEET TITLE:**  
COVER

**JOB #:**  
15023-01

**DATE:**  
08/16/21

**DRAWN:**  
CLC

**APPROVED:**  
TP

REVISIONS:	ISSUED TO:	DATE:
1.	ISSUED TO BID	08/30/21
2.		01/20/22
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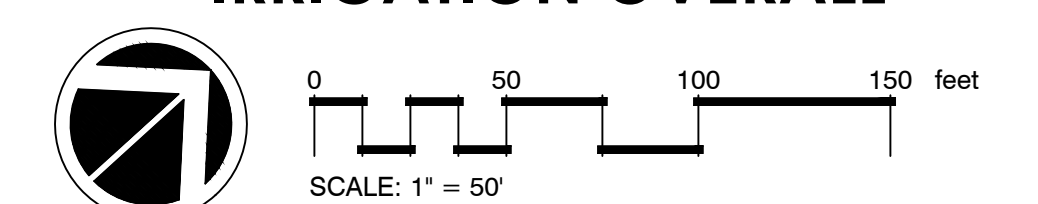


PROJECT NUMBER: 240470  
FOR MORE INFORMATION PLEASE CONTACT  
1-843-873-4062 OR VISIT OUR WEBSITE AT  
www.SITEONE.com



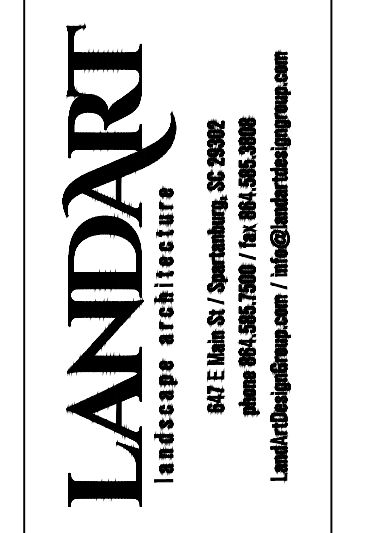
Know what's below.  
Call before you dig.

647 East Main St.  
Spartanburg, SC 29302  
Phone: (864) 585-7500  
Fax: (864) 585-3808  
Tipton Pitts, ASLA  
tip@landartdesigngroup.com  
Kipp Kemper  
kipp@landartdesigngroup.com



**SHEET**  
**IR1**  
OF 18

**DR. TK GREGG COMMUNITY CENTER TRAIL**  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA



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**1 IRRIGATION PLAN ENLARGEMENT EAST**  
**IR2** SCALE: 1"=20'

Filename: C:\Projects\Region 5\240470-TK Gregg Comm Center Trail 011922\Old\DR\TK GREGG COMMUNITY CENTER TRAIL-240470.dwg  
 Plot Time: 1/20/2022 9:59:46 AM

T.K. GREGG CENTER

**SiteOne**  
 Project Services

PROJECT NUMBER: 240470  
 FOR MORE INFORMATION PLEASE CONTACT  
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 www.SITEONE.com

**IRRIGATION PLAN EAST**

**DR. TK GREGG COMMUNITY CENTER TRAIL**  
**650 HOWARD STREET**  
 CITY OF SPARTANBURG, SOUTH CAROLINA

**LANDART**  
 landscape architects

847 E. Main St. / Spartanburg, SC 29302  
 phone 863.582.7200 / fax 863.582.3800  
 LandArtDesignGroup.com / info@landartdesigngroup.com

**SHEET TITLE:**  
 LANDSCAPE PLAN  
 EAST

**JOB #:**  
 15023-01

**DATE:**  
 08/16/21

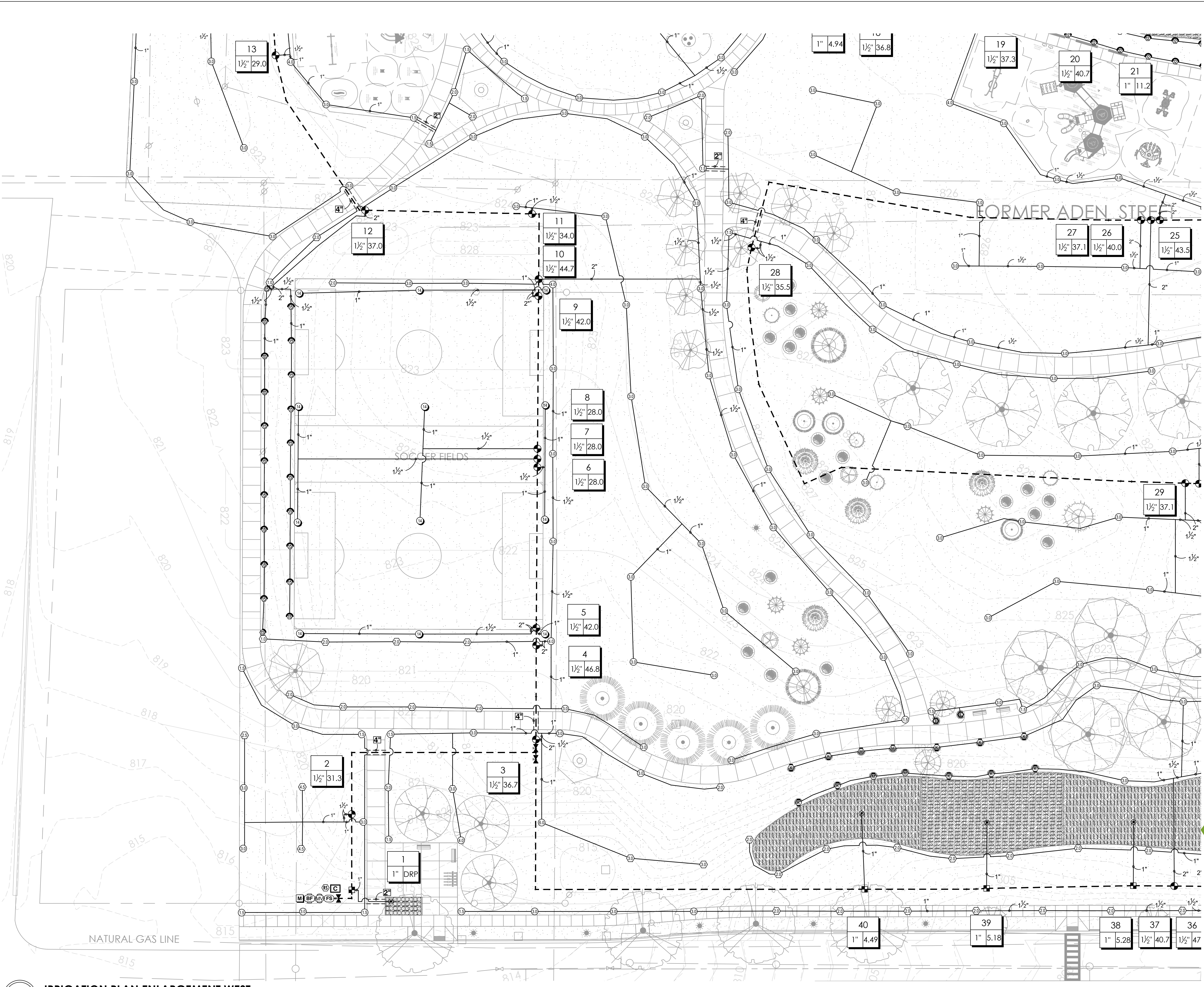
**DRAWN:**  
 CLC

**APPROVED:**  
 TP

REVISIONS:	ISSUED TO:	DATE:
1.	ISSUED TO BID	01/20/22
2.		
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**SHEET**  
**IR2**  
 OF 18

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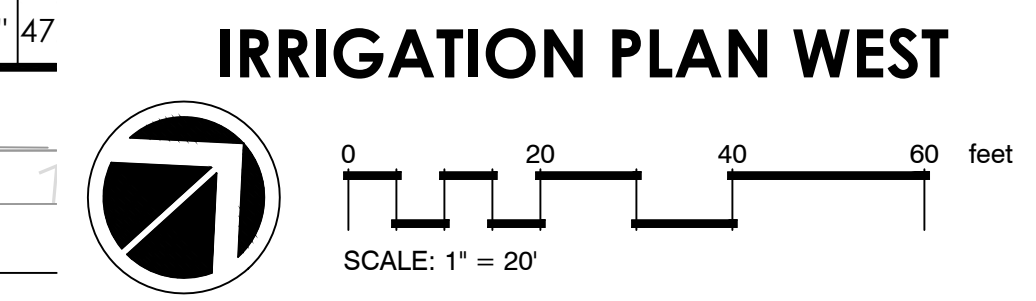


**1** IRRIGATION PLAN ENLARGEMENT WEST  
 IR3 SCALE: 1"=20'

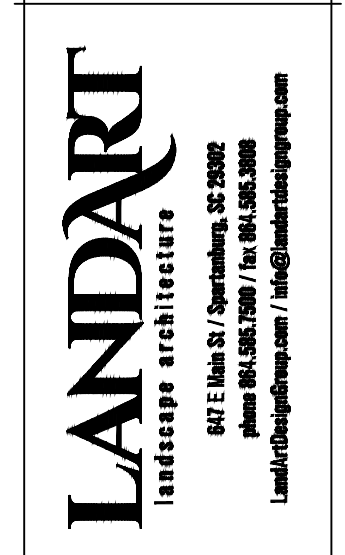
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 Plot Time: 1/20/2022 9:59:50 AM



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**DR. TK GREGG COMMUNITY CENTER TRAIL**  
 650 HOWARD STREET  
 CITY OF SPARTANBURG, SOUTH CAROLINA



**SHEET TITLE:**  
 LANDSCAPE PLAN WEST

**JOB #:**  
 15023-01

**DATE:**  
 08/16/21

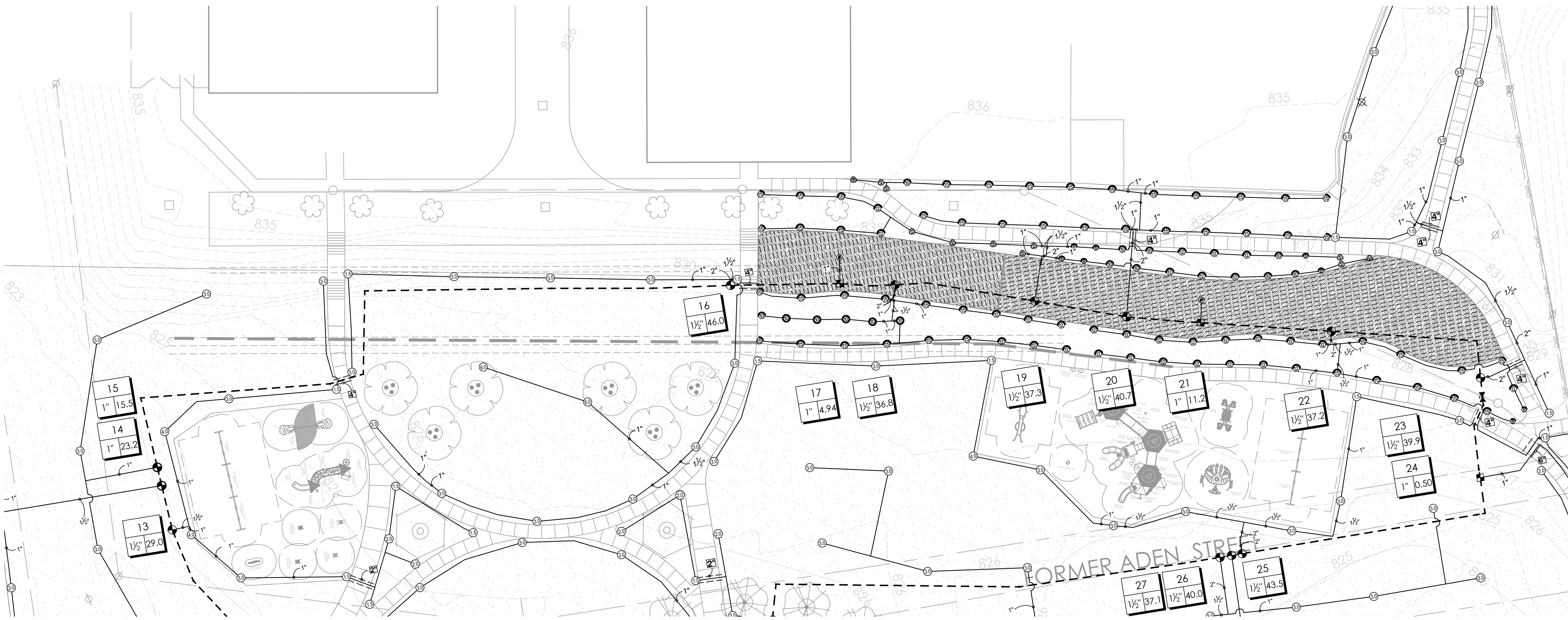
**DRAWN:**  
 CLC

**APPROVED:**  
 TP

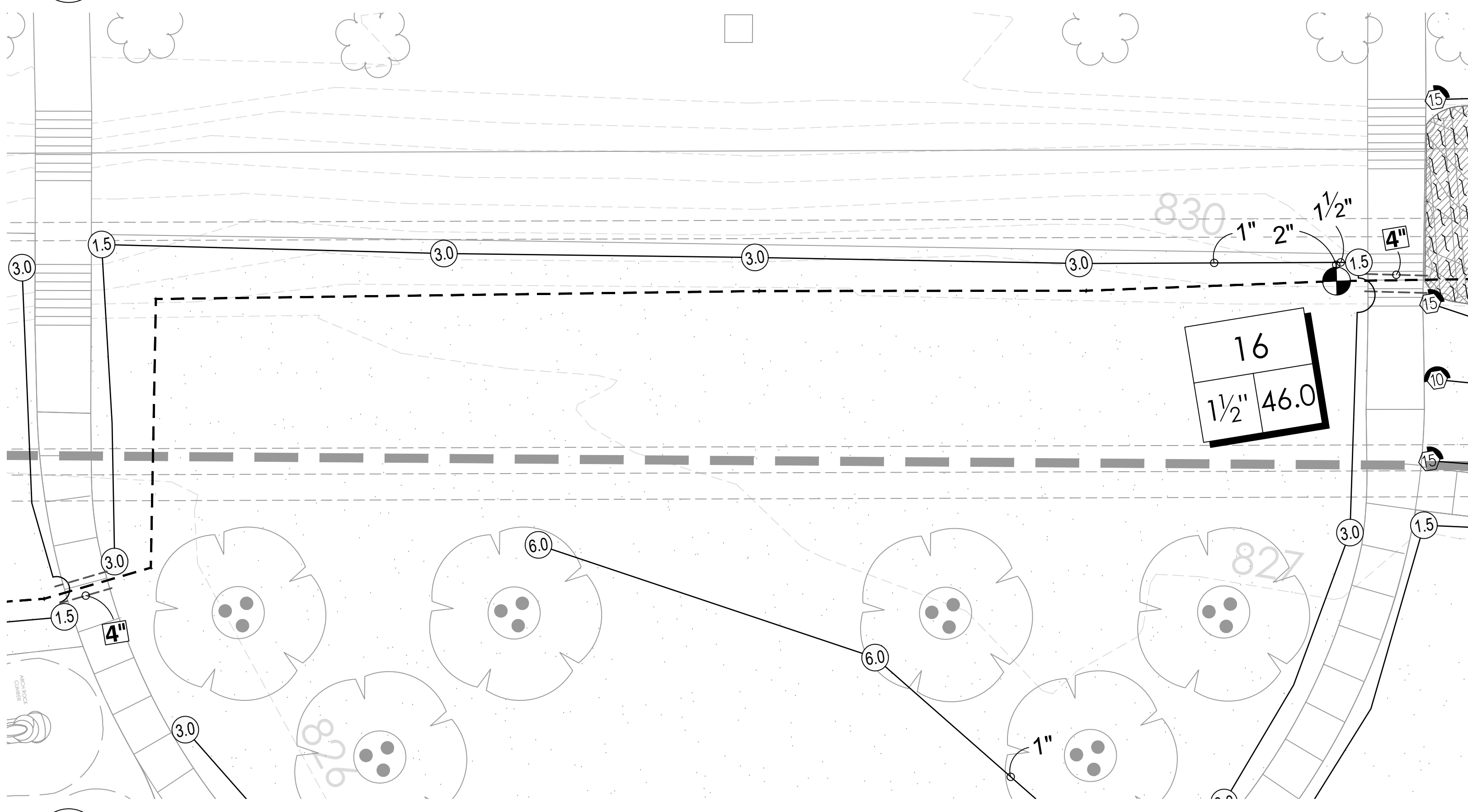
REVISIONS:	ISSUED TO:	DATE:
1	ISSUED TO BID	08/30/21
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SHEET  
**IR3**  
 OF 18

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**1 SCHOOL DISTRICT IRRIGATION PLAN**  
IR4 SCALE: 1"=20'



**2 OUTSIDE CLASSROOM AMPHITHEATER**  
IR4 SCALE: 1"=10'

Filename: C:\Projects\Region 5\240470- TK Gregg Comm Center Trail 011922\Old\DR.TK GREGG COMMUNITY CENTER TRAIL-240470.dwg  
Plot Time: 1/20/2022 9:59:53 AM

OUTDOOR CLASSROOM AMPHITHEATER

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**SCHL. DIST. IRRIGATION PLAN**  
0 20 40 60 feet  
SCALE: 1" = 20'

**DR. TK GREGG COMMUNITY CENTER TRAIL**  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA

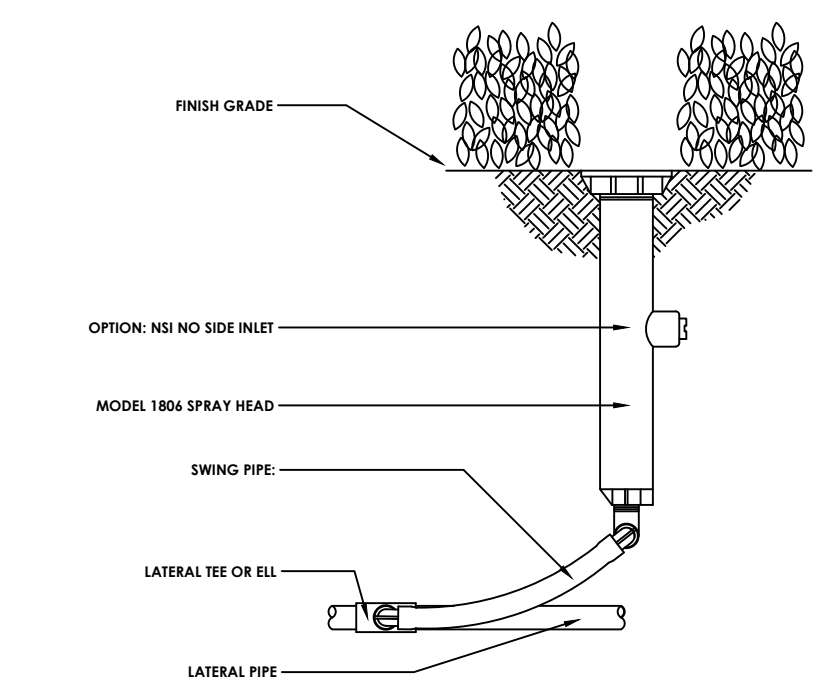
**LANDART**  
landscape architects  
847 E. Main St. / Spartanburg, SC 29302  
Phone: 864.582.7200 / Fax: 864.582.3800  
LandArtDesignGroup.com / info@landartdesigngroup.com

**SHEET TITLE:**  
SCHOOL DISTRICT  
LANDSCAPE PLAN  
**JOB #:**  
15023-01  
**DATE:**  
08/16/21  
**DRAWN:**  
CLC  
**APPROVED:**  
TP

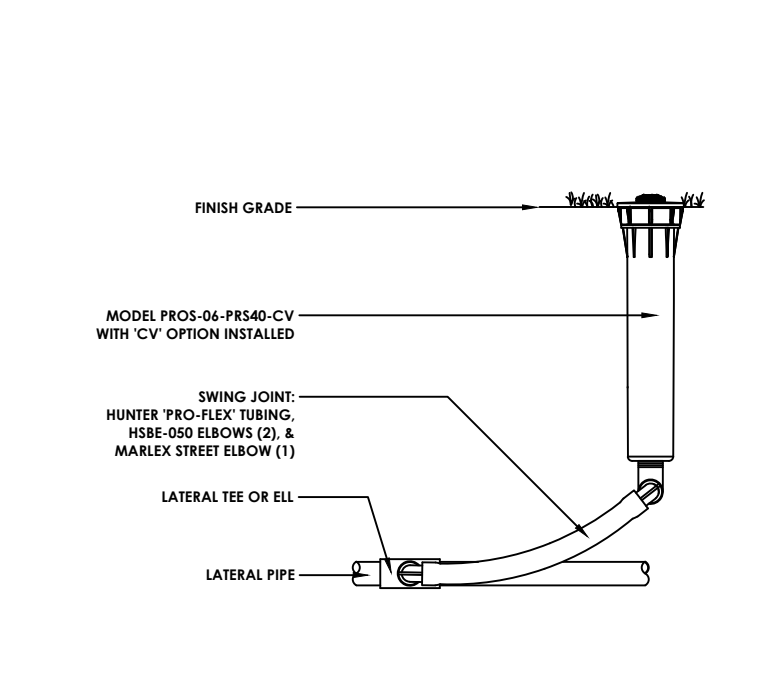
REVISIONS:	ISSUED TO:	DATE:
1.	ISSUED TO BID	08/30/21
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SHEET  
**IR4**  
OF 18

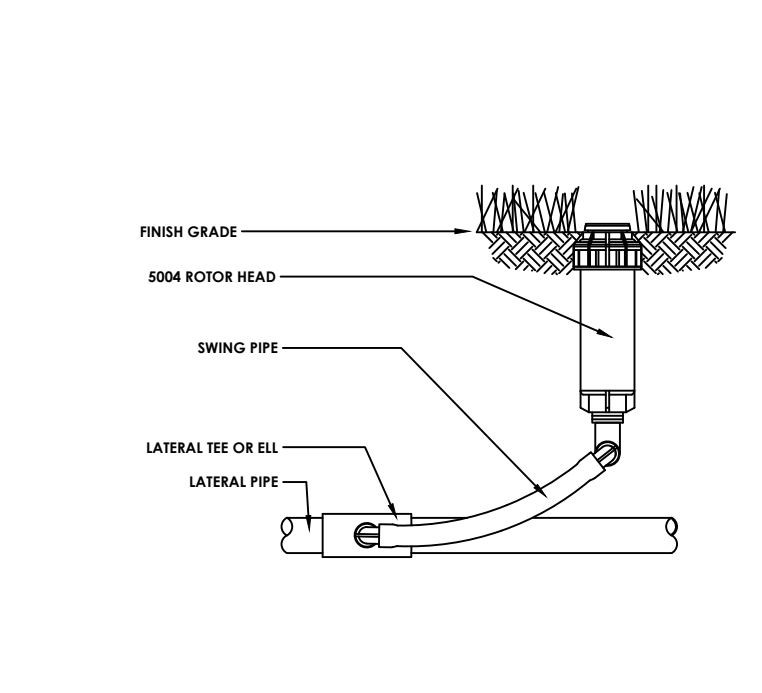
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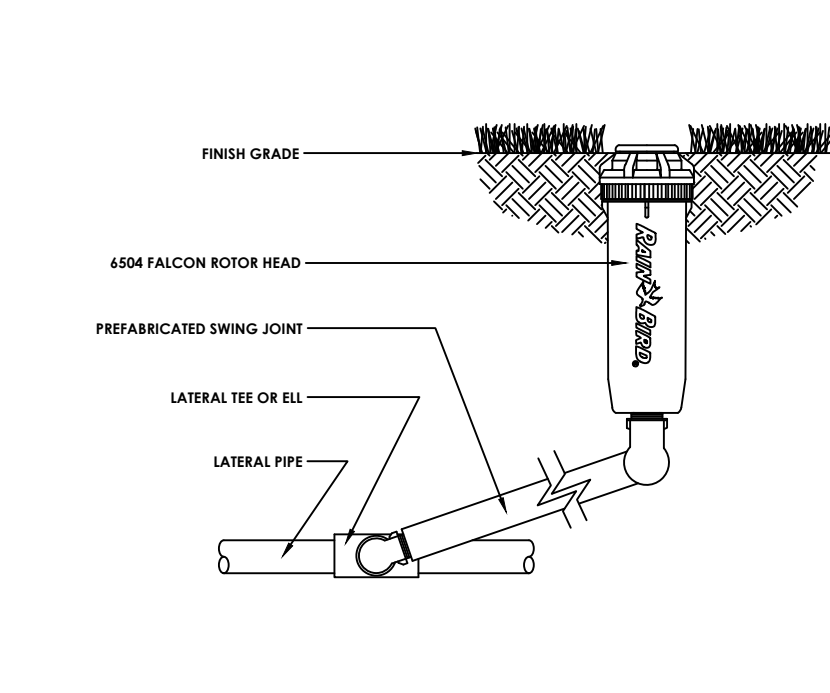
1 1806 SPRAY HEAD WITH SWING PIPE



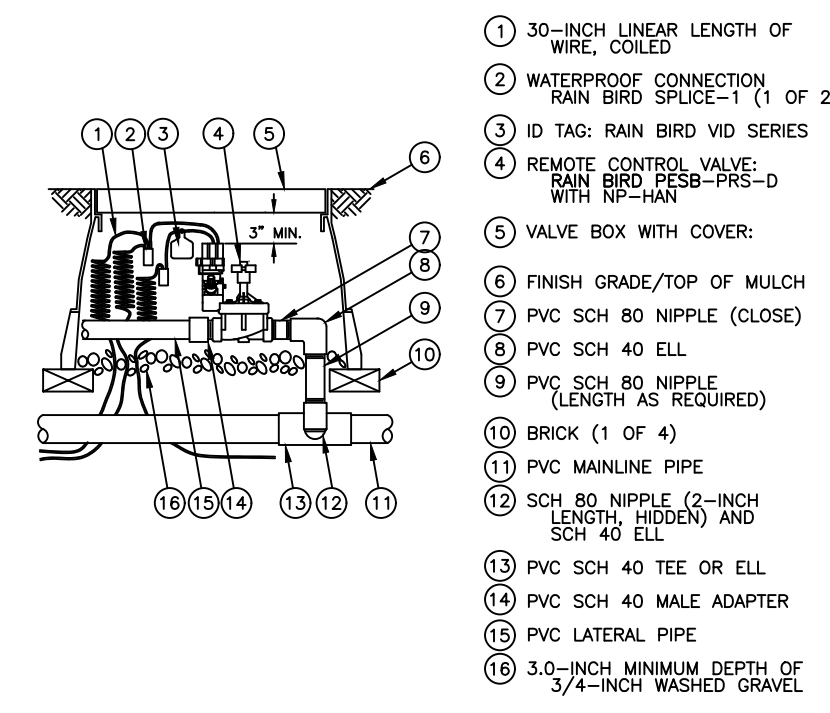
2 PROS-06-PRS40-CV MP ROTATOR SPRINKLER



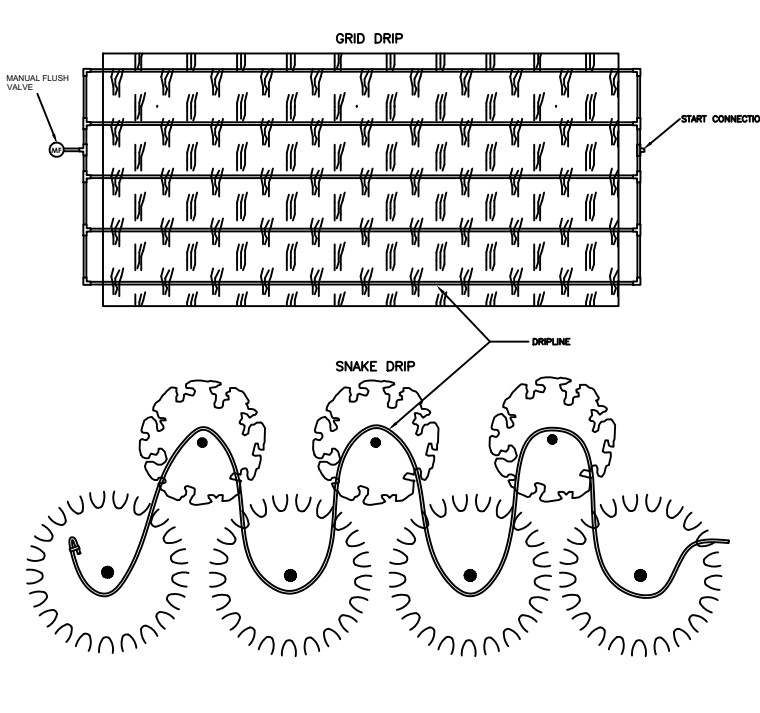
3 5004 ROTOR HEAD WITH SWING PIPE



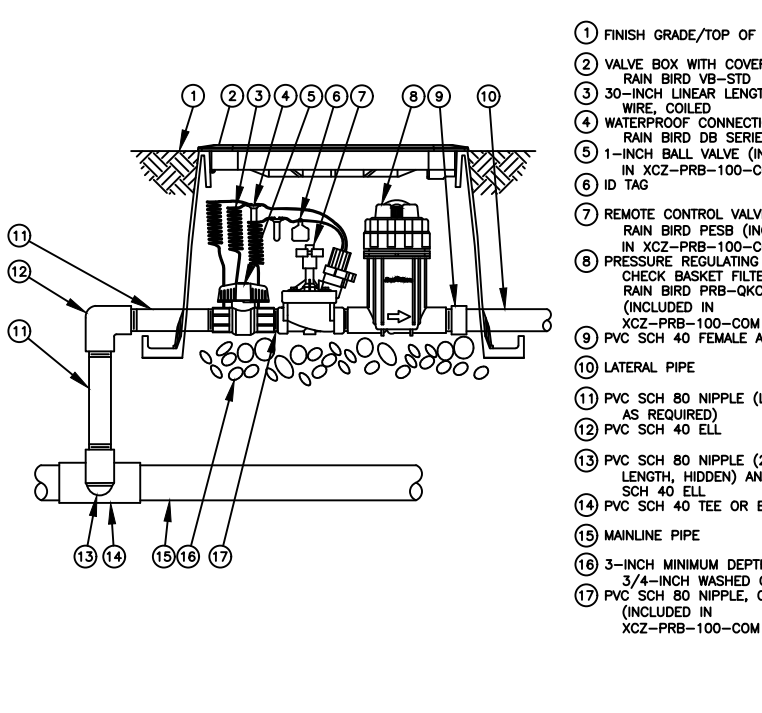
4 6504 FALCON ROTOR HEAD



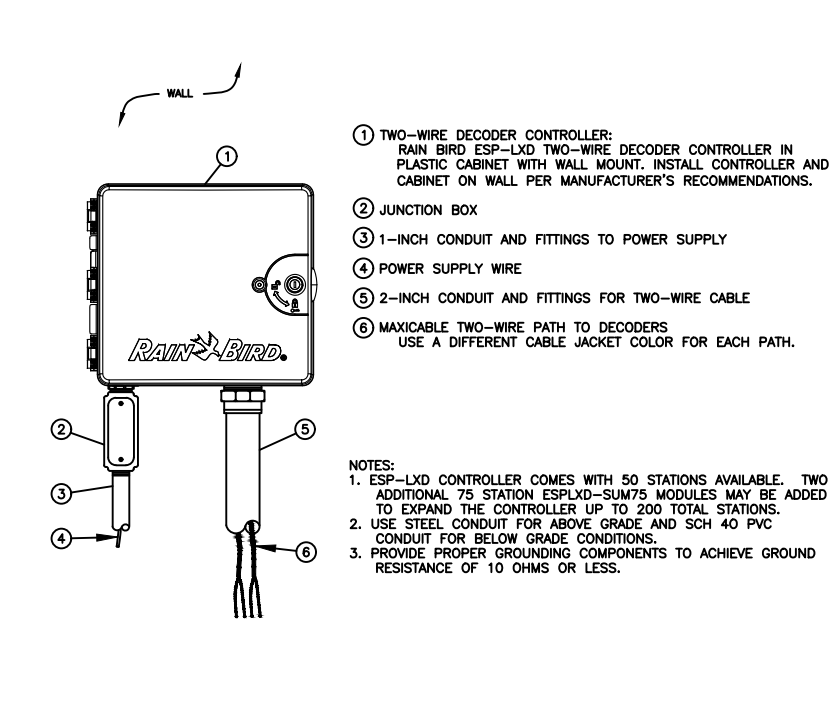
5 PEB SERIES ELECTRIC VALVE



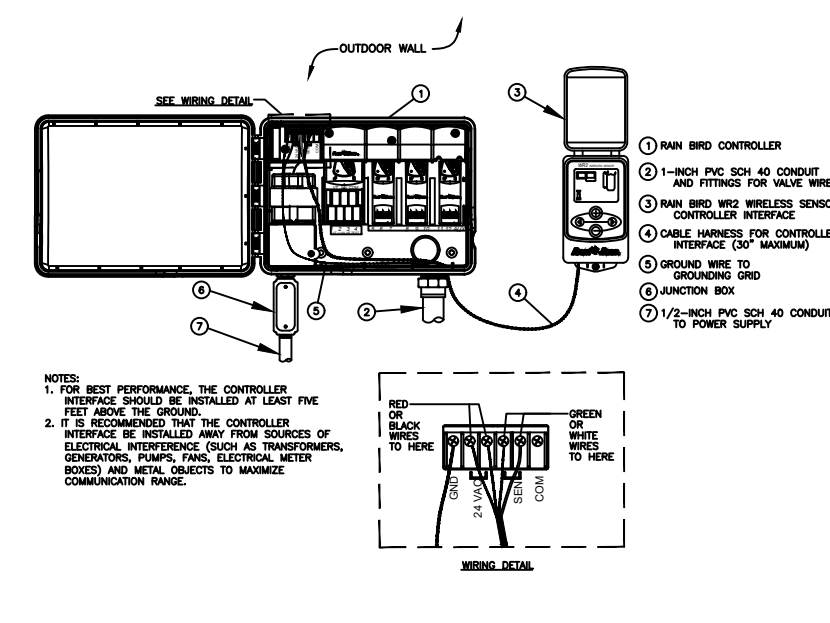
6 TYPICAL DRIP TUBING LAYOUT



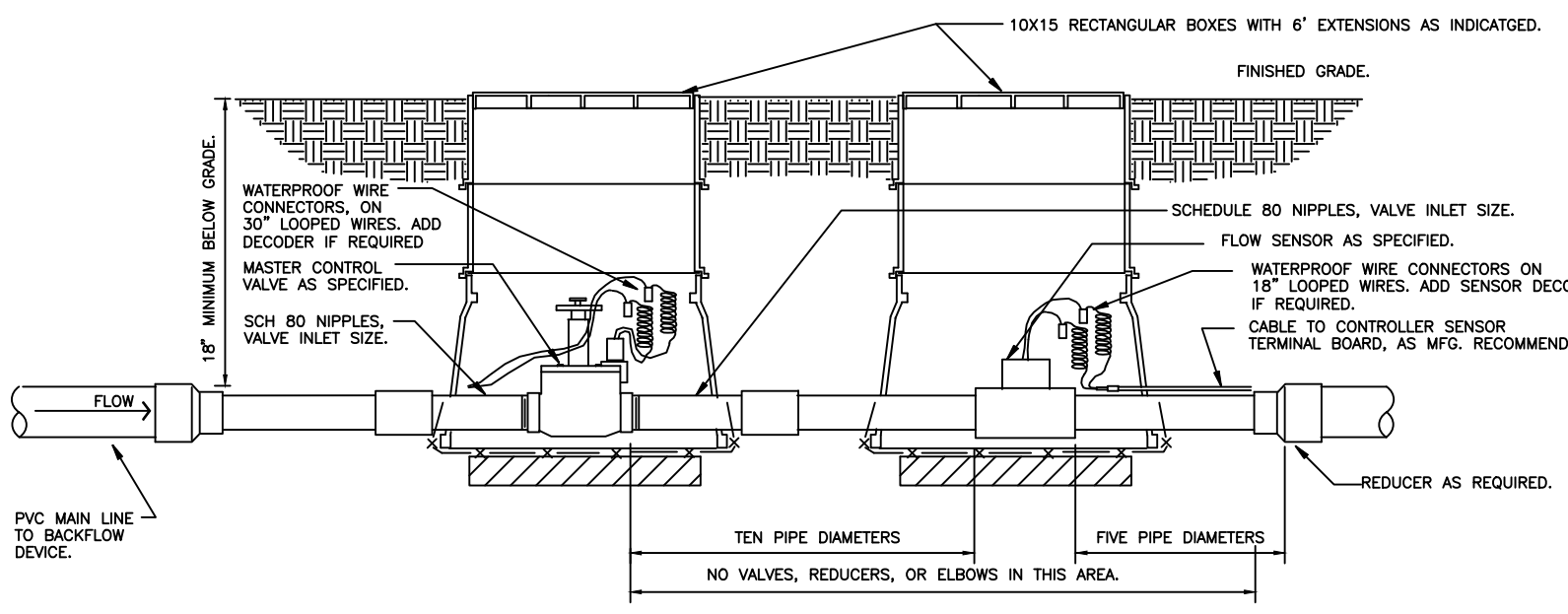
7 XCZ-100-PRB-COM 1" CONTROL ZONE KIT



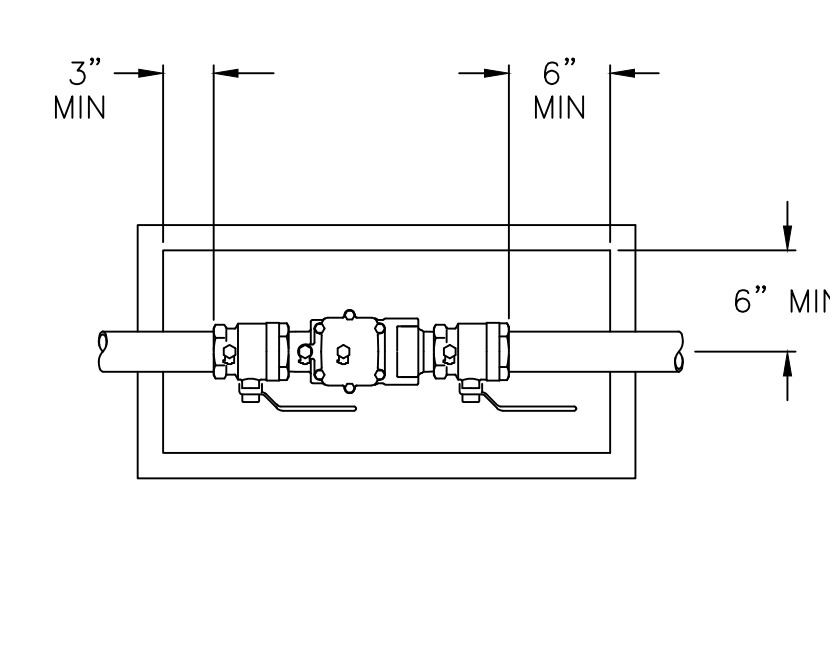
8 ESP-LXD TWO-WIRE DECODER CONTROLLER



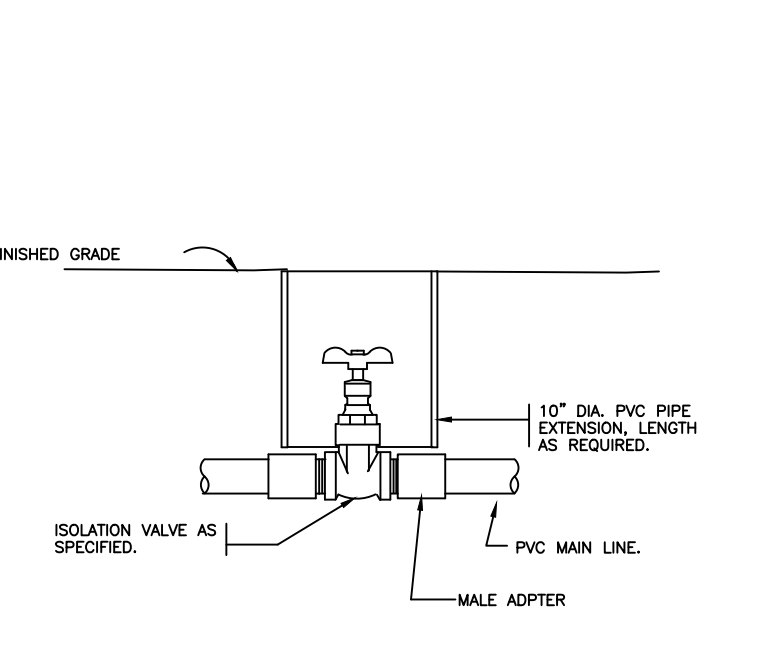
9 WR2 WIRELESS RAIN SENSOR



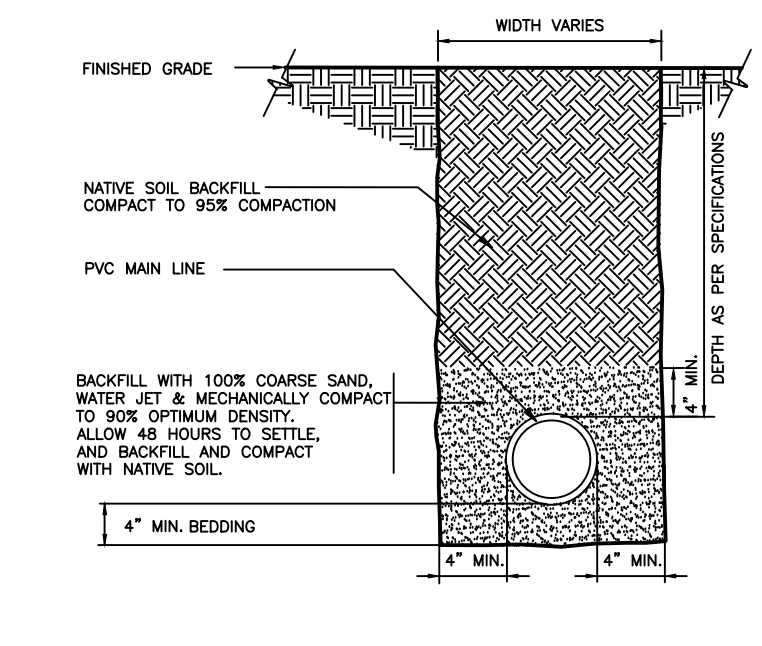
10 MASTER VALVE/FLOW SENSOR ASSEMBLY



11 DOUBLE CHECK BACKFLOW PREVENTER



12 ISOLATION GATE VALVE



13 SLEEVE AT ROAD

1 LEGEND AND DETAILS  
IR5 SCALE:

Filename: C:\Projects\Region 5\240470-TK Gregg Comm Center Trail 011922\Old\DR.TK GREGG COMMUNITY CENTER TRAIL-240470.dwg  
Plot Time: 1/20/2022 9:59:55 AM

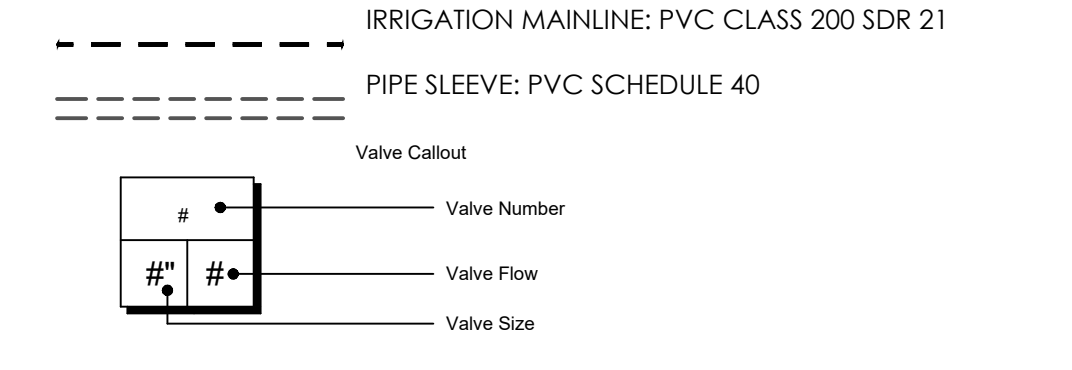
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD 1806-SAM-PRS SPRAY HEAD 15 STRIP SERIES
	RAIN BIRD 1806-SAM-PRS SPRAY HEAD 8 SERIES MPR
	RAIN BIRD 1806-SAM-PRS SPRAY HEAD 10 SERIES MPR
	RAIN BIRD 1806-SAM-PRS SPRAY HEAD 12 SERIES MPR
	RAIN BIRD 1806-SAM-PRS SPRAY HEAD 15 SERIES MPR
	HUNTER MP1000 RAIN BIRD 1806-SAM-P45 ROTATOR
	HUNTER MP2000 RAIN BIRD 1806-SAM-P45 ROTATOR
	HUNTER MP800SR RAIN BIRD 1806-SAM-P45 ROTATOR
	HUNTER MPSTRIP RAIN BIRD 1806-SAM-P45 ROTATOR

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD 5004-PL-PC, FC ROTOR
	RAIN BIRD 5004-PL-PC, FC ROTOR
	RAIN BIRD 5004-PL-PC, FC ROTOR
	RAIN BIRD 5004-PL-PC, FC ROTOR
	RAIN BIRD 5004-PL-PC, FC-LA ROTOR
	RAIN BIRD 5004-PL-PC, FC-LA ROTOR
	RAIN BIRD 5004-PL-PC, FC-LA ROTOR
	RAIN BIRD F4-PC, FC ROTOR

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD XCZ-100-PRB-COM DRIP VALVE W/ FD-101 DEC
	PIPE TRANSITION POINT ABOVE GRADE
	AREA TO RECEIVE DRIP LINE
	RAIN BIRD XFD-09-1B (SERPENTINE PATTERN)

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD PEB ELECTRIC VALVE W/ FD-101 DECODER
	GATE VALVE (MAIN LINE SIZE)
	RAIN BIRD PEB MASTER VALVE N.C. 1-1/2"
	ZURN/WILKINS 950XL DCA BACKFLOW 1-1/2"
	HUNTER ESPLXD CONTROLLER (120VAC REQUIRED)
	RAIN BIRD WR2-RFC RAIN SENSOR
	RAIN BIRD FS-150-P FLOW SENSOR
	WATER METER 1-1/2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21
	PIPE SLEEVE: PVC SCHEDULE 40



IRRIGATION NOTES

- IRRIGATION SYSTEM DESIGNED BASED ON 50 GPM AT 87 PSI.
- IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION (POC) ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE (GPM) AND POUNDS PER SQUARE INCH (PSI).
- IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED IN THE NOTES PRIOR TO INSTALLATION.
- THE PRESSURE REQUIREMENT FROM THE POINT OF CONNECTION TO THE HIGHEST POINT OF IRRIGATION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE. IF THE ELEVATION IS GREATER THAN 5 FEET CONSULT WITH THE IRRIGATION DESIGNER FOR POSSIBLE ADJUSTMENTS.
- FINAL CONTROLLER LOCATION TO BE DETERMINED BY OWNER REPRESENTATIVE.
- THE IRRIGATION DESIGN IS GRAPHICAL IN NATURE AND MAY NOT REPRESENT ACTUAL CIRCUMSTANCES IN THE FIELD. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO USE INSTALLATION TECHNIQUES PER MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO DETERMINE IF IRRIGATION EQUIPMENT CAN BE PLACED IN RIGHT OF WAYS, EASEMENTS, AND ACROSS PROPERTY LINES.
- IF LATERAL PIPING IS ADJUSTED IN THE FIELD THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROPER SIZING TECHNIQUES. THE FLOW RATES SHALL NOT EXCEED 5 FT/SEC. THE LOCATION OF IRRIGATION EQUIPMENT SHOWN ON THE DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY AS REQUIRED TO ACHIEVE FULL AND EVEN COVERAGE.
- ALL IRRIGATION HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISHED GRADES EXCEPT AS OTHERWISE INDICATED.
- INSTALL IRRIGATION MAINLINES WITH A MINIMUM OF 18" OF COVER AND IRRIGATION LATERALS WITH A MINIMUM OF 12" OF COVER BASED ON FINISHED GRADES.
- THE IRRIGATION CONTRACTOR SHALL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED.
- ALL MAINLINE PIPE 3" AND LARGER TO BE SDR21 GASKETED PVC. SERVICE TEES/FITTINGS AND/OR DUCTILE IRON SERVICE TEES/FITTINGS TO BE USED UNLESS NOTED DIFFERENTLY IN THE IRRIGATION LEGEND. ALL MAINLINE 2-1/2" AND SMALLER TO BE SDR21 SOLVENT WELD PVC PIPE. ALL PVC PIPE FITTINGS TO BE SCH40 SOLVENT WELD.
- ALL WIRE SPLICES SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE IRRIGATION CONTROLLER TO BE UL APPROVED DIRECT BURY 2-WIRE.
- ALL IRRIGATION GROUNDING TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET (AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC.)
- USE INDEPENDENT SHIELDED COMMUNICATION CABLE FOR ALL FLOW SENSOR/MASTER VALVE INSTALLATIONS AS REQUIRED PER MANUFACTURER.

PROJECT NUMBER: 240470  
FOR MORE INFORMATION PLEASE CONTACT  
1-843-873-4062 OR VISIT OUR WEBSITE AT  
www.SITEONE.com

DR. TK GREGG COMMUNITY CENTER TRAIL  
650 HOWARD STREET  
CITY OF SPARTANBURG, SOUTH CAROLINA

847 E. Main St. / Spartanburg, SC 29302  
Phone: 864.588.7200 / Fax: 864.588.3800  
LandArt@landartgroup.com / landartgroup.com

SHEET TITLE:  
LEGEND AND DETAILS

JOB #:  
240470

DATE:  
08/16/21

DRAWN:  
CLC

APPROVED:  
TP

REVISIONS:	ISSUED TO:	DATE:
1	ISSUED TO BID	08/30/21
2		01/20/22
3		
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5		
6		

SHEET  
IR5  
OF 5



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**MATRIX ENGINEERING, INC.**  
 912 South Pine Street  
 Spartanburg, South Carolina 29302  
 (864)583-6274  
 www.matrixei.com  
 PROJECT NUMBER: 2021-162

**DR. T K GREGG GREEN SPACE**  
 650 HOWARD STREET  
 CITY OF SPARTANBURG, SOUTH CAROLINA

**LANDART**  
 landscape architecture  
 817 E Main St / Spartanburg, SC 29302  
 phone 864.583.7200 / fax 864.583.3800  
 LandArt@landartgroup.com / info@landartgroup.com

**SHEET TITLE:**  
 GENERAL NOTES, LEGEND, SINGLE LINE DIAGRAM & PANEL SCHEDULE  
**JOB #:**  
 2021-162  
**DATE:**  
 01-28-22  
**DRAWN:**  
 RB  
**APPROVED:**  
 HPB

**REVISIONS:**  
 1 ISSUED FOR BID  
 2  
 3  
 4  
 5  
 6



01-28-2022  
**SHEET**  
**E1**  
 1 OF 3

**GENERAL NOTES**

- ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE TWO SHALL APPLY.
- IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
- ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
- ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
- ELECTRICAL CONTRACTOR SHALL CONTACT THE ARCHITECT AFTER INSTALLATION OF ALL SWITCH, RECEPTACLE, TELEPHONE, TELEVISION, AND LIGHTING BOXES FOR AN ON-SITE REVIEW BEFORE ANY WIRING IS INSTALLED OR WALL SURFACES ARE COMPLETE. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
- WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
  - SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING CIRCUITS AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)
 

	#12	#10	#8	#6
120V., 20A.	85'	110'	165'	270'
277V., 20A.	160'	250'	390'	600'
- THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2017 NEC.
- DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL FAITHFULLY MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS. AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNUSED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
- MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT.
- ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2017 NEC.
- THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPACITIES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2017 NEC.
- FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2017 NEC.
- SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2017 NEC.
- RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILING GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2017 NEC.
- TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILING PER ARTICLE 334.12 OF THE 2017 NEC.
- FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTE FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.8 (1) AND (5) PER THE 2017 NEC.
- INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2017 NEC.

**POWER LEGEND**

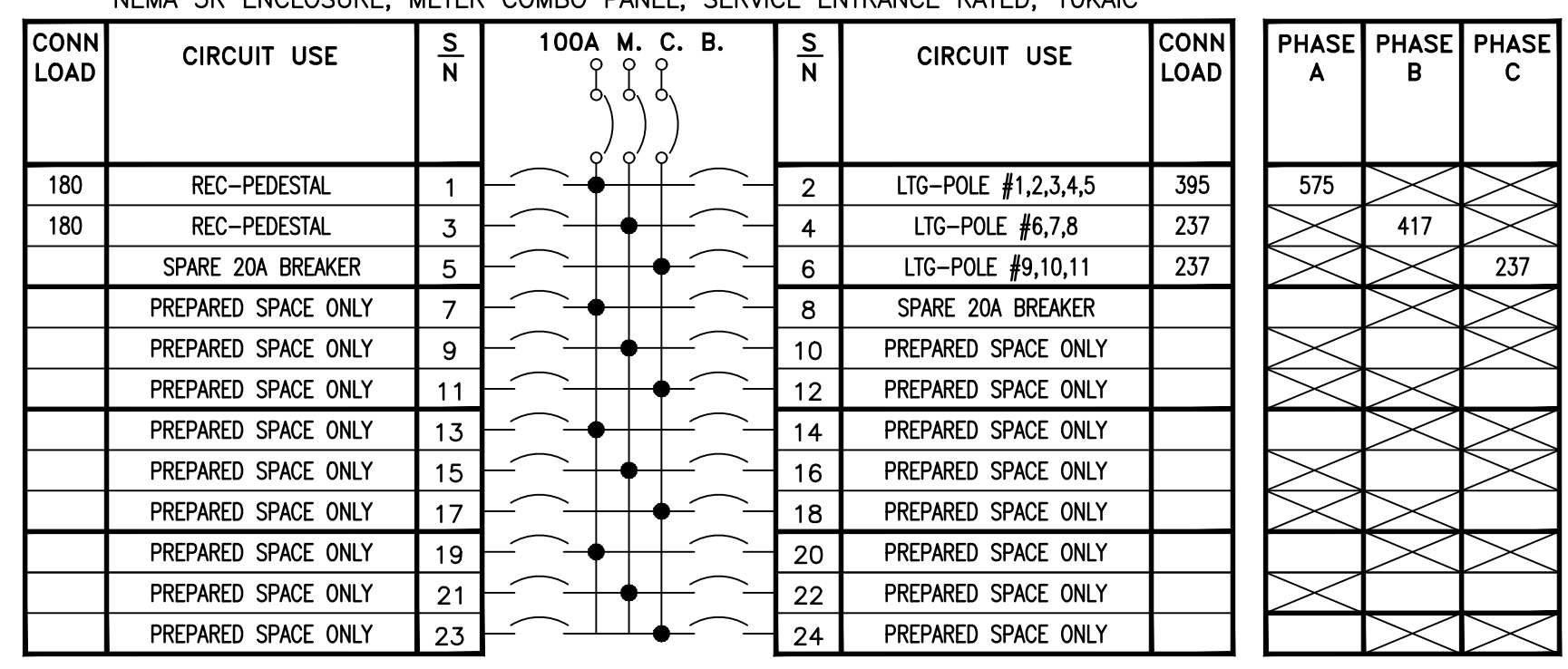
- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE
- POWER OUTLET, 208V, SIZED AS NOTED.
- QUADRAPLEX OUTLET, (2 DUPLEX OUTLETS IN 2 GANG BOX WITH 2 GANG COVER PLATE)
- 20A, 125V, 2P, 3W, NEMA 5-20R DUPLEX RECEPTACLE MOUNT 6" ABOVE COUNTER TO BOTTOM OF OUTLET BOX.
- FED-SPEC GRADE USB CHARGER WITH TAMPER-RESISTANT DUPLEX RECEPTACLE WIREMOLD #TR5262USB-IVORY OR APPROVED EQUAL.
- ADJACENT TO RECEPTACLE DENOTES GROUND FAULT INTERRUPTER OUTLET, (FEED THRU TYPE).
- ADJACENT TO RECEPTACLE INDICATES WEATHERPROOF IN-USE TYPE COVER.
- ADJACENT TO RECEPTACLE INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- TYPICAL DATA/COMM OUTLET DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD RING, ROUTE 3/4 INCH CONDUIT TO ABOVE CEILING SPACE. PROVIDE PULL STRING. COMMUNICATIONS CONTRACTOR TO PROVIDE FACE PLATE, WIRING, AND FINAL CONNECTIONS.
- JUNCTION BOX
- LIGHTING OR RECEPTACLE PANEL BOARD.
- DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- DISCONNECT FURNISHED WITH EQUIPMENT
- MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANTITY OF POLES AS REQUIRED
- EXHAUST FAN.
- SEE MECHANICAL DWGS. FOR FAN SPECIFICATIONS. MOTOR, HORSEPOWER AS SHOWN.
- "HOME-RUN" TO PANEL BOARD.

**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	VOLTAGE	WATTAGE
A	79W LED POLE MOUNTED FIXTURE MOUNTED ON 10" ALUMINUM POLE	(1)79W LED	PEMCO LIGHTING CATALOG # HEAD - LEX2-PAC2-72W4KUS-NNNE-BK POLE - PLB-402-4-10-S-125-T300-BK	120	79

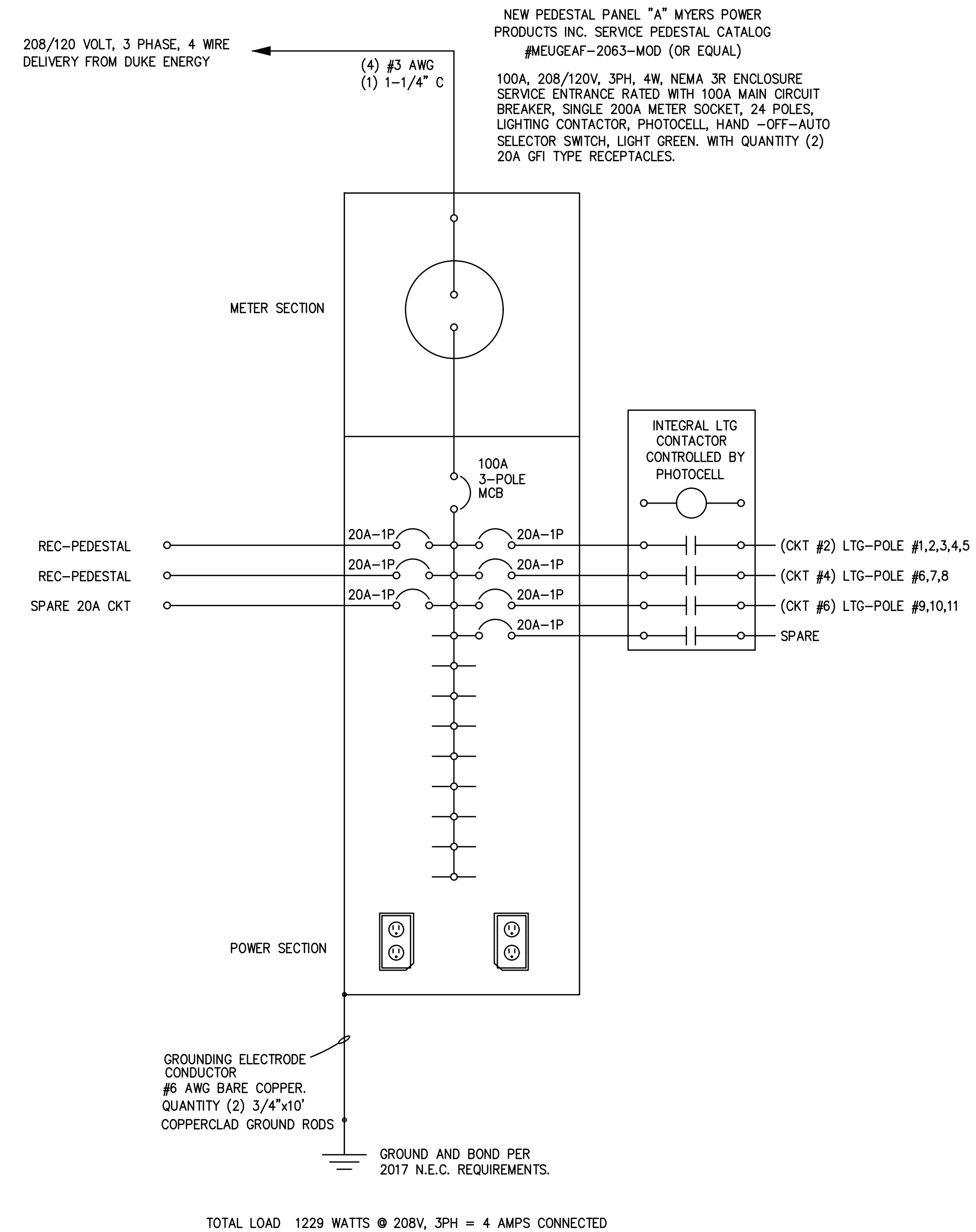
- NOTES:**
- LIGHTING FIXTURES MANUFACTURER SHALL BE PROVIDED AS SPECIFIED, UNLESS PRE-APPROVED DURING BIDDING BY THE ARCHITECT/ENGINEER.
  - COORDINATE LED COLOR TEMPERATURE WITH OWNER/ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
  - COORDINATE FINISHES WITH OWNER/ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
  - COORDINATE MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO PURCHASING AND INSTALLING.

**PEDESTAL PANEL "A"**  
 208/120 VOLT, 100 AMP MAIN CIRCUIT BREAKER, 3 PHASE, 4 WIRE  
 NEMA 3R ENCLOSURE, METER COMBO PANEL, SERVICE ENTRANCE RATED, 10KAIC



- NOTES:**
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
  - PROVIDE TYPED PANEL SCHEDULE
  - LEAVE ALL BREAKERS NOTED AS SPARES IN THE OFF POSITION.

PHASE	VA	AMPERAGE
PHASE A	575	
PHASE B		417
PHASE C		237
<b>TOTAL VA</b>	<b>1229</b>	
<b>CONNECTED AMPERAGE</b>		<b>4</b>



**MYERS Power Products, Inc.**

**MEUG3A Series**  
Caltrans Type III-AF

Designed to supply metered power to remote locations. Typical applications include parking lot lights, pump stations, traffic signals and remote lighting.

**MODEL MEUG3A-1263**  
TYPICAL PEDESTAL DETAILS

STANDARD FEATURES	OPTIONAL FEATURES
<ul style="list-style-type: none"> <li>Corrosion-resistant, 12S aluminum uni-body construction.</li> <li>Rainproof type 3R enclosure.</li> <li>Complies with Caltrans specification ES-2D, Type III-AF.</li> <li>Designed around EUSERC 308 requirements.</li> <li>All factory wiring is 600 volt rated copper, THWN.</li> <li>Meter socket with test blocks.</li> <li>Acceptable circuit breakers are GE, Cutler-Hammer, Clip-on and both on type, 10K AIC.</li> <li>Listed by Underwriters Laboratories, Inc.</li> <li>Vandal resistant side hinged door and dead front.</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for use without main when no more than six service disconnects are installed and used in accordance with article 384 of the NEC.</li> <li>P.E. coil, test switch, lighting relay may be added to standard pedestal.</li> <li>Anchor bolts, 5/8" dia. or 1/2" dia. Order separately (quantity 4).</li> <li>Available in stainless steel.</li> <li>Light green powdercoat finish available in accordance with ASTM B-117. Custom colors available.</li> <li>Some equipment modifications available. Consult your factory representative.</li> <li>Higher AIC available upon request.</li> </ul>

**STANDARD MODELS/SPECIFICATIONS**

Catalog Number Series	Enclosure Size	Max. Voltage	Phase	Meter Socket Amps	Max. Amps	Typical Applications
MEUG3A-1248	12W x 48H x 7.25D	480	1	100 Continuous	100	Street Lighting, Traffic Signals, Athletic Field
MEUG3A-1263	12W x 63H x 7.25D	480	1	100 Continuous	100	Lighting, Court Lighting, Park Lighting
MEUG3A-2048	20W x 48H x 10.25D	480	1 or 3	200 Continuous	200	Lighting, Court Lighting, Park Lighting
MEUG3A-2063	20W x 63H x 10.25D	480	1 or 3	200 Continuous	200	Lighting, Court Lighting, Park Lighting
MEUG3A-2050	20W x 50H x 10.25D	120	1	100 Continuous	20	Landscape Irrigation Pump Station
MEUG3A-3050	30W x 63H x 17.38D	480	1 or 3	200 Continuous	200	Pump Station

**MODEL SERIES: MEUG3A-30**

**MODEL SERIES: MEUG3A-12 & -20**

**BASE PLAN DIMENSIONS**

Model Series	A	B	C	D	E	F
MEUG3A-12	8.00	5.25	12.00	7.25	5.00	N/A
MEUG3A-20	16.00	8.25	20.00	10.25	5.00	N/A
MEUG3A-30	26.00	15.38	30.00	17.38	6.00	12.50

**MYERS Power Products, Inc.**  
 Tel: 866-MY-MYERS Fax: 951-620-1961  
 www.myerspowerproducts.com

Specifications are subject to change without notice to reflect improvements and upgrades.

- PEDESTAL PANEL NOTES:**
- GROUND MOUNT PEDESTAL PANEL PER MANUFACTURER'S SPECIFICATIONS.
  - PROVIDE CONCRETE FOUNDATION PAD FOR PEDESTAL PANEL.
  - PURCHASE AND INSTALL MYERS POWER PRODUCTS, INC. PEDESTAL PANEL CATALOG #MEUGEAF-2063-MOD. SEE SPECIFICATIONS ABOVE RIGHT.

**NOTE:**  
 ELECTRICAL CONTRACTOR TO SCHEDULE A SITE VISIT TO ASSESS EXISTING CONDITIONS AND VERIFY DISTANCES FOR WIRING WHERE NOT SHOWN ON DRAWING.

**NEW PEDESTAL SERVICE PANEL**  
 NOT TO SCALE

**GENERAL NOTES, LEGEND, SINGLE LINE DIAGRAM & PANEL SCHEDULE**

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**MATRIX ENGINEERING, INC.**  
 912 South Pine Street  
 Spartanburg, South Carolina 29302  
 (864)583-6274  
 www.matrixei.com  
 PROJECT NUMBER: 2021-162

**DR. T K GREGG GREEN SPACE**  
 650 HOWARD STREET  
 CITY OF SPARTANBURG, SOUTH CAROLINA

**LANDART**  
 landscape architecture  
 817 E Main St / Spartanburg, SC 29302  
 phone 803.583.7009 / fax 803.583.3808  
 LandArt@landartgroup.com / info@landartgroup.com

**SHEET TITLE:**  
 ELECTRICAL PLAN

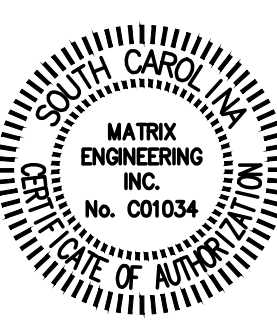
**JOB #:**  
 2021-162

**DATE:**  
 01-28-22

**DRAWN:**  
 RB

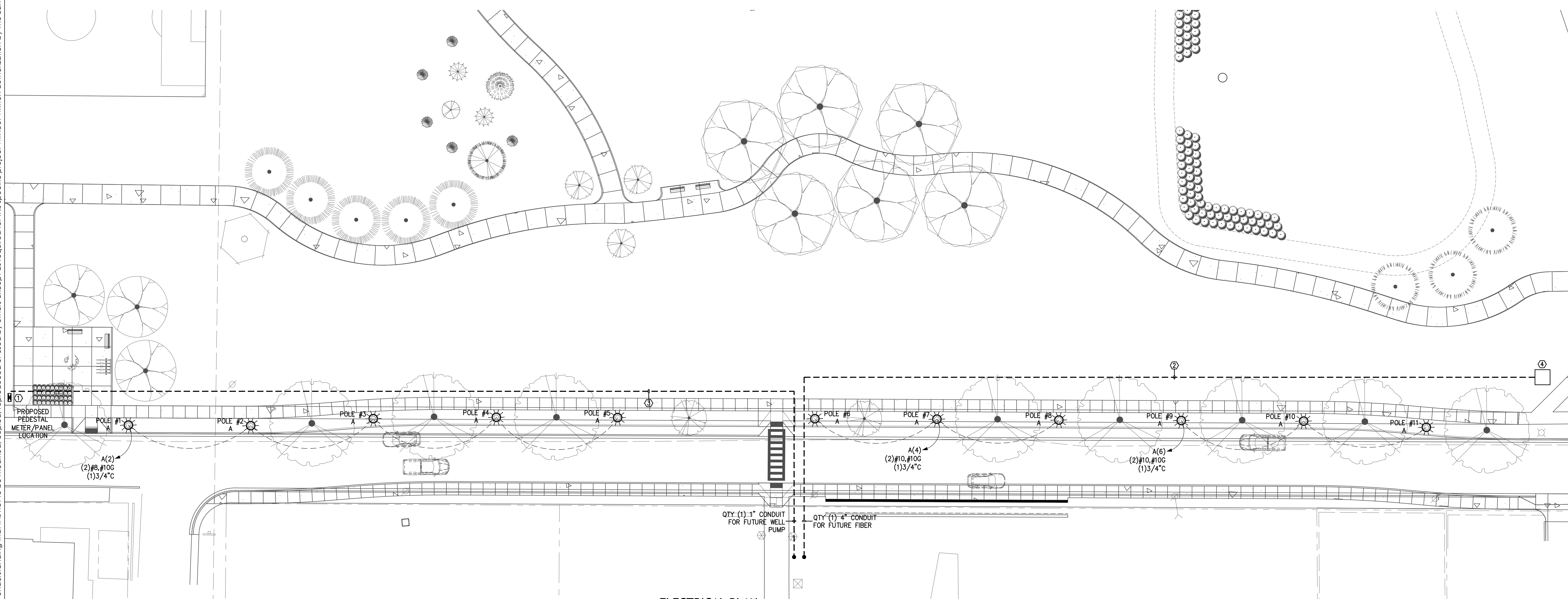
**APPROVED:**  
 HPB

NO.	REVISIONS:
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01-28-2022

**SHEET**  
**E2**  
 2 OF 3



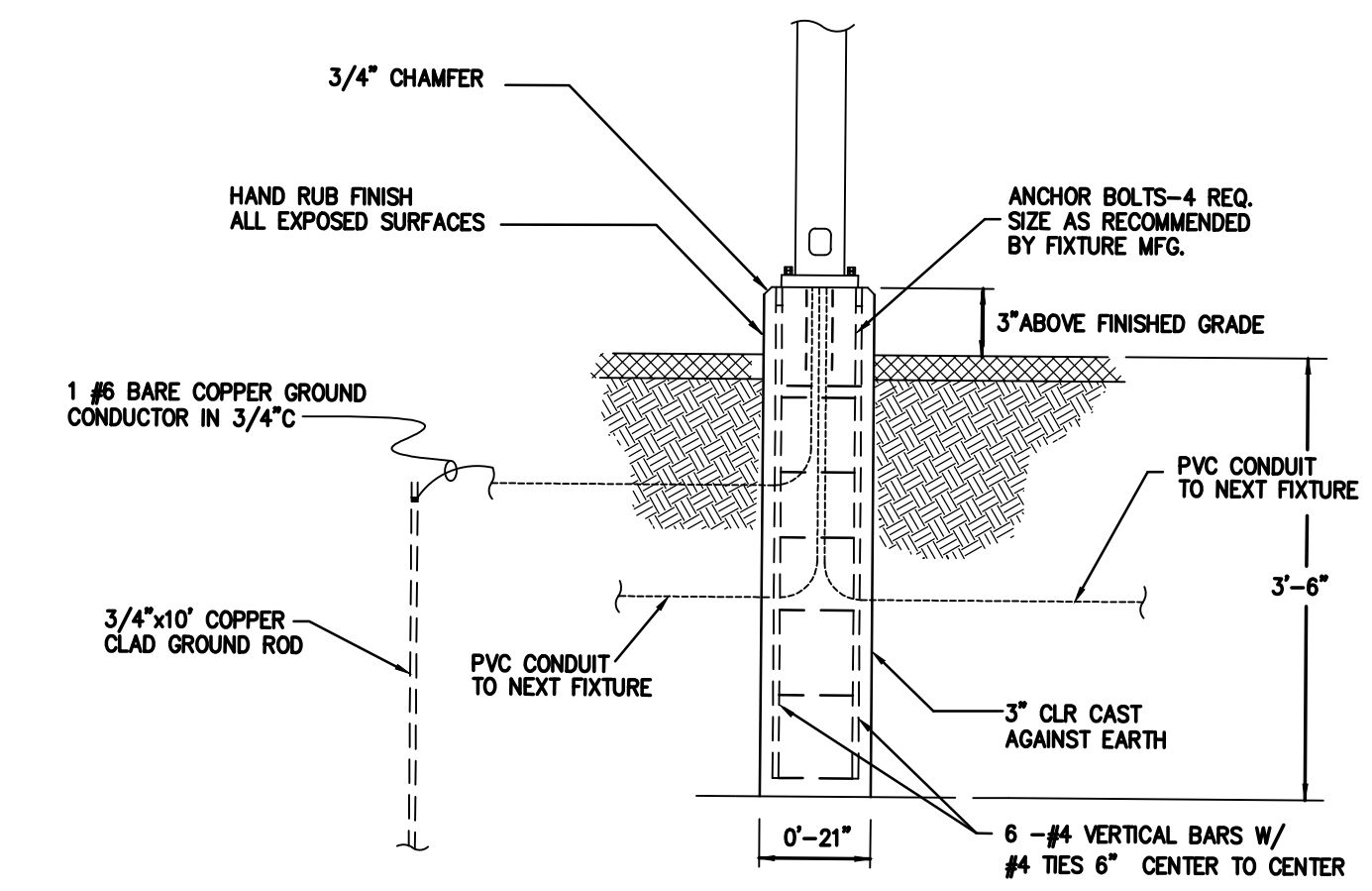
**ELECTRICAL PLAN**  
 SCALE: 1"=20'-0"

**GENERAL ELECTRICAL PLAN NOTES:**

- ELECTRICAL CONTRACTOR TO COORDINATE ALL ELECTRICAL COMPONENT LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLING.
- ALL CONDUIT SHALL BE SCHEDULE 40 PVC TYPE. CONDUIT ROUTED UNDER STREET SHALL BE SCHEDULE 80 PVC TYPE.
- WHERE PORTIONS OF A RACEWAY ARE SUBJECT TO DIFFERENT TEMPERATURES, AND WHERE CONDENSATION IS KNOWN TO BE A PROBLEM, AS IN PEDESTAL APPLICATIONS OR WHERE PASSING FROM WARM TO COLD AREAS, ELECTRICAL CONTRACTOR TO FILL THE RACEWAY WITH AN APPROVED MATERIAL TO PREVENT CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY.
- ALL CONDUCTORS TO BE COPPER.
- COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON THE SITE BEFORE INSTALLING.
- COORDINATE WITH CITY OF SPARTANBURG REPRESENTATIVE FOR ALL CONDUIT ROUTING.

**KEYED ELECTRICAL PLAN NOTES:**

- DENOTES PROPOSED LOCATION OF NEW 100 AMP, 3 PHASE, 4 WIRE PEDESTAL PANEL "A". COORDINATE SERVICE WITH DUKE ENERGY REPRESENTATIVE. ROUTE 1-1/4" SCHEDULE 40 CONDUIT UNDERGROUND FROM PEDESTAL PANEL "A" OVER AND UP TO UTILITY DIP POLE DESIGNATED BY DUKE ENERGY. PROVIDE 90 DEGREE SWEEPING ELBOW WITH BELL END POINTING UP TOWARDS TOP OF POLE. PROVIDE PULL STRING IN EMPTY CONDUIT.
- DENOTES QUANTITY (1) 4" CONDUIT WITH PULL STRING FOR FUTURE FIBER CONNECTION. ELECTRICAL CONTRACTOR TO STUB UP, CAP AND LABEL CONDUIT FOR FUTURE USE. COORDINATE EXACT ROUTING AND STUB UP LOCATION WITH LANDSCAPE ARCHITECT/CITY REPRESENTATIVE PRIOR TO INSTALLING.
- DENOTES QUANTITY (1) 1" CONDUIT WITH PULL STRING FOR FUTURE WELL PUMP. ELECTRICAL CONTRACTOR TO STUB UP, CAP AND LABEL CONDUIT FOR FUTURE USE. COORDINATE EXACT ROUTING AND STUB UP LOCATION WITH LANDSCAPE ARCHITECT/CITY REPRESENTATIVE PRIOR TO INSTALLING.
- DENOTES QUAZITE BOX TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH LANDSCAPE ARCHITECT/CITY REPRESENTATIVE PRIOR TO INSTALLING.



**TYPICAL POLE BASE DETAIL**  
 NOT TO SCALE

- NOTE:**
- GROUT BETWEEN CONCRETE POLE BASE AND LIGHT FIXTURE POLE BASE WITH NON SHRINKING GROUT TO FILL AIR SPACE BETWEEN THEM.
  - CONCRETE IS 3000 PSI MIN. REINFORCING STEEL IS Fy = 60ksi.
  - COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH LANDSCAPE PLANS BEFORE INSTALLING CONDUIT/POLE BASES.
  - BURY ALL LIGHTING CIRCUIT CONDUITS A MINIMUM OF 24 INCHES DEEP.

**ELECTRICAL PLAN**

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ELECTRICAL SPECIFICATIONS

General Provisions

- 1. All Electrical work shall be executed in accordance with the 2017 version of the National Electrical Code and all other local codes, laws, and ordinances. Where one code differs from another, the stricter of the two shall apply.
2. It is the duty of the Electrical contractor to be familiar with the construction details of the building. The contractor shall coordinate the installation of the electrical system with all other trades and shall complete the electrical installation as soon as conditions will allow.
3. Payment of all fees, permits, and licenses required to complete the electrical installation shall be the responsibility of the electrical contractor.
4. All work shall be done in a neat, quality manner with all wiring and raceways concealed.
5. All electrical work shall be warranted by the electrical contractor for one (1) year from the date of acceptance by the owner or his designated representative.
6. All electrical drawings are generally diagrammatic in nature. The electrical contractor shall closely coordinate all electrical work with all other trades working on the premises.
7. Electrical contractor shall submit five (5) sets of catalog cuts, brochures, or other technical data for all equipment furnished under this contract to the architect for his review.
8. All requests for prior approval shall be submitted to the engineer no later than ten (10) days prior to the bid date unless noted as "approved equal" in a written addendum. All manufactures shall be specified herein or as shown on the contract documents.
9. See general notes, schedules, and legends on the electrical drawing set for any additional requirements to the contract.
10. Electrical contractor is to contact the architect after installation of all switch, receptacle, telephone, television, and lighting boxes for an on-site review before any wiring is installed or wall surfaces are complete. The architect may, at this point, make adjustments to the box locations as desired.
11. All electrical panelboards and lighting equipment shall be restrained per seismic requirements of the appropriate building code in effect.

Electrical Raceways

- 1. All cutting and patching required for and resulting from the electrical installation work shall be patched and repaired to restore the original surface finish. This repair work is the responsibility of the electrical contractor.
2. Contractor shall install sleeves for conduits that pass through grade beams, foundations, walls, and slabs before concrete is poured. Contractor shall do all necessary cutting and sealing afterwards in an approved manner.
3. All penetrations through fire-rated walls shall be patched with a UL approved fire sealant equal to at least the rating of the wall.
4. Wiring system is to be concealed above the suspended ceiling or in walls where possible. Conduit is to be installed parallel to building lines and clear of all openings, depressions, pipes, ducts, structure, etc.
5. Conduit is to be installed between cabinets and boxes with no more than four (4) 90 degree bends. Conduit is to be securely fastened in place with straps, hangers and steel supports as required. Conduit is not to be fastened or supported from the ceiling grid or supporting wires. Conduit ends shall be reamed and conduit shall be thoroughly cleaned before installation. Openings in conduit shall be plugged or properly covered.
6. Terminals on switches and outlets shall not be used to "feed through" to the next switch or outlet. The removal of a receptacle or fixture or any other device fed from a box shall not interfere with conductor continuity.
7. Conduit shall be furnished as shown on the electrical drawings. Approved types are heavy wall rigid steel hot dipped galvanized or EMT with compression type fittings and connections. All runs shall be continuous with all joints and connections pulled tight. Conduit shall be required in and under all slabs and in masonry walls. PVC conduit may be used underground or under slabs. Minimum conduit size shall be 3/4".
8. Contractor shall install a nylon pull wire in each empty conduit.
9. Contractor to include an equipment grounding conductor in each conduit. Conductor size to be determined by National Electrical Code requirements.

Conductors

1. Conductors shall be soft-annealed 98% copper. All conductors larger than #8 AWG shall be stranded. Minimum size conductor shall be #12 AWG unless otherwise specified. No aluminum conductors will be permitted. Type THHN shall not be used underground, outside, at service entrances or in wet locations. All insulation shall be rated at 600 volts.

The following insulation types are permitted:

#10 AWG and smaller THW, THWN, THW
#8 AWG to #4/0 AWG THW, THHN
Over 4/0 AWG THW
Service Entrance USE, RHW
Wire through fluorescent fixture or within 3' of heating equipment THHN

Conductors shall be color coded as follows:

Table with 3 columns: Phase, Color, and another Color. Row 1: Phase A, Black, Brown. Row 2: Phase B, Red, Orange. Row 3: Phase C, Blue, Yellow. Row 4: Neutral, White, White. Row 5: Ground, Green, Green.

Distribution

- 1. Electrical power service voltage shall be as noted on the drawings. Size of the electrical service conductors shall be as shown on the riser diagram. All service connections and grounding detail shall be per the National Electrical Code article 250 and shall be inspected before covering.
2. Contractor shall comply with the 2017 National Electrical Code and all laws that apply to electrical installations.
3. All material used on the project shall be new and conform to Underwriters Laboratories (UL) standards.
4. Contractor to verify voltage drops and A.I.C. ratings for all equipment connected and verify the size of all electrical system breakers, conduit, wire size, etc.

Grounding

- 1. All metallic conduit, supports, cabinets, panelboards, and other electrical system components shall be permanently grounded per the National Electrical Code. All grounding devices and clamps shall be of the type approved specifically for grounding use. All circuits shall include a grounding conductor sized per National Electrical Code requirements.

Panelboards

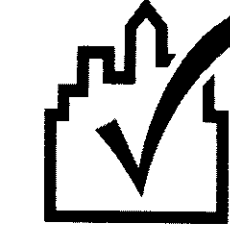
- 1. Receptacle and lighting panels shall be safety dead-front type. Bussing and breakers shall be as shown on panelboard drawing. Panels shall be supplied with copper plated bus. Cabinets shall be NEMA type 1. Contractor to supply nameplates and type-written panel schedules. Panel shall be manufactured by Square D General Electric, Cutler Hammer or approved equal.
2. All circuit breakers must show positive indication of tripped breaker.
3. Switches shall be heavy-duty type fusible or non-fusible as specified on drawing. Operating mechanism shall be designed to provide quick-make and quick-break operation. Construction shall consist of silver-plated operating parts with safety interlock on door to prevent entry when in "on" position. Indoor enclosures shall be NEMA type 1. Outdoor enclosures shall be type NEMA 3R. Fuse clips shall be for type RK-1 fuses. Disconnect switches shall be manufactured by Square D, General Electric, Cutler Hammer or approved equal.
4. All electrical equipment, panels, switches, etc., shall be tagged with white plastic nameplates with 1/4"H black letters. Nameplate shall show equipment designation and operating voltage.

Lighting Equipment

- 1. Lighting fixtures shall be of the type shown in the lighting fixture schedule.

Devices and Boxes

- 1. All outlet, lighting, and switch boxes shall be pressed steel where used in overhead and concealed areas. Receptacles and switches in exposed areas shall be installed in ferrous alloy or cast aluminum boxes with appropriate sheet steel covers.



COMcheck Software Version 4.1.5.3 Exterior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: 2009 IECC
Project Title:
Project Type: New Construction
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))
Construction Site: 650 Howard Street, Spartanburg, SC 29302
Owner/Agent: Landart, 647 East Main Street, Spartanburg, SC 29302
Designer/Contractor: Hugh P. Bunn, Matrix Engineering Inc., 912 South Pine Street, Spartanburg, SC 29301

Section 2: Exterior Lighting Area/Surface Power Calculation

Table with 6 columns: Exterior Area/Surface, Quantity, Allowed Watts / Unit, Tradable Wattage, Allowed Watts (B x C), Proposed Watts. Row 1: Walkway < 10 feet wide, 650 ft of walkway length, 1, Yes, 650, 669. Summary: Total Tradable Watts\* = 650, Total Allowed Watts = 650, Total Allowed Supplemental Watts\*\* = 1300.

\* Wattage tradeoffs are only allowed between tradable areas/surfaces.
\*\* A supplemental allowance equal to 1300 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

Table with 5 columns: Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast, Lamps, # of Fixtures, Fixture Watt., (C X D). Row 1: Walkway < 10 feet wide (650 ft of walkway length): Tradable Wattage, LED 1: A: 10' Pole Mounted LED: Other, 1, 11, 79, 869. Summary: Total Tradable Proposed Watts = 869.

Section 4: Requirements Checklist

- Lighting Wattage:
1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes using supplemental allowance watts.
Controls, Switching, and Wiring:
2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
3. Lighting not designated for dusk-to-dawn operation is controlled by either a photosensor (with time switch), or an astronomical time switch.
4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.
Exterior Lighting Efficacy:
6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Project Title:
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- Exceptions:
Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
Lighting that is specifically designated as required by a health or life safety statute, ordinance, or regulation.
Emergency lighting that is automatically off during normal building operation.
Lighting that is controlled by motion sensor.

Exterior Lighting PASSES. Design 55% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.3 and to comply with the mandatory requirements in the Requirements Checklist.

Hugh P. Bunn, PE Name Title Signature Date 1-21-2022

Project Title:
Data filename: \\Server\file server\Projects - 2021\2021-162 TK Gregg Street Lighting\TK Gregg Site Lighting COMcheck.cck Report date: Page 2 of 2

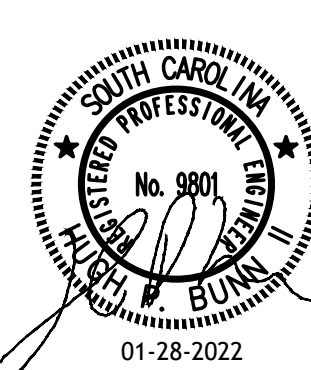
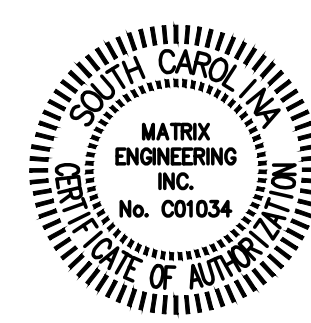
MATRIX ENGINEERING, INC. logo and contact information: 912 South Pine Street, Spartanburg, South Carolina 29302, (864)583-6274, www.matrixei.com, PROJECT NUMBER: 2021-162

DR. T K GREGG GREEN SPACE
650 HOWARD STREET
CITY OF SPARTANBURG, SOUTH CAROLINA

LANDART logo and contact information: landscape architecture, 647 E Main St / Spartanburg, SC 29302, phone 864.583.7000 / fax 864.583.3800, Landart@landartgroup.com / info@landartgroup.com

SHEET TITLE: ELECTRICAL SPECIFICATIONS & COMcheck
JOB #: 2021-162
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