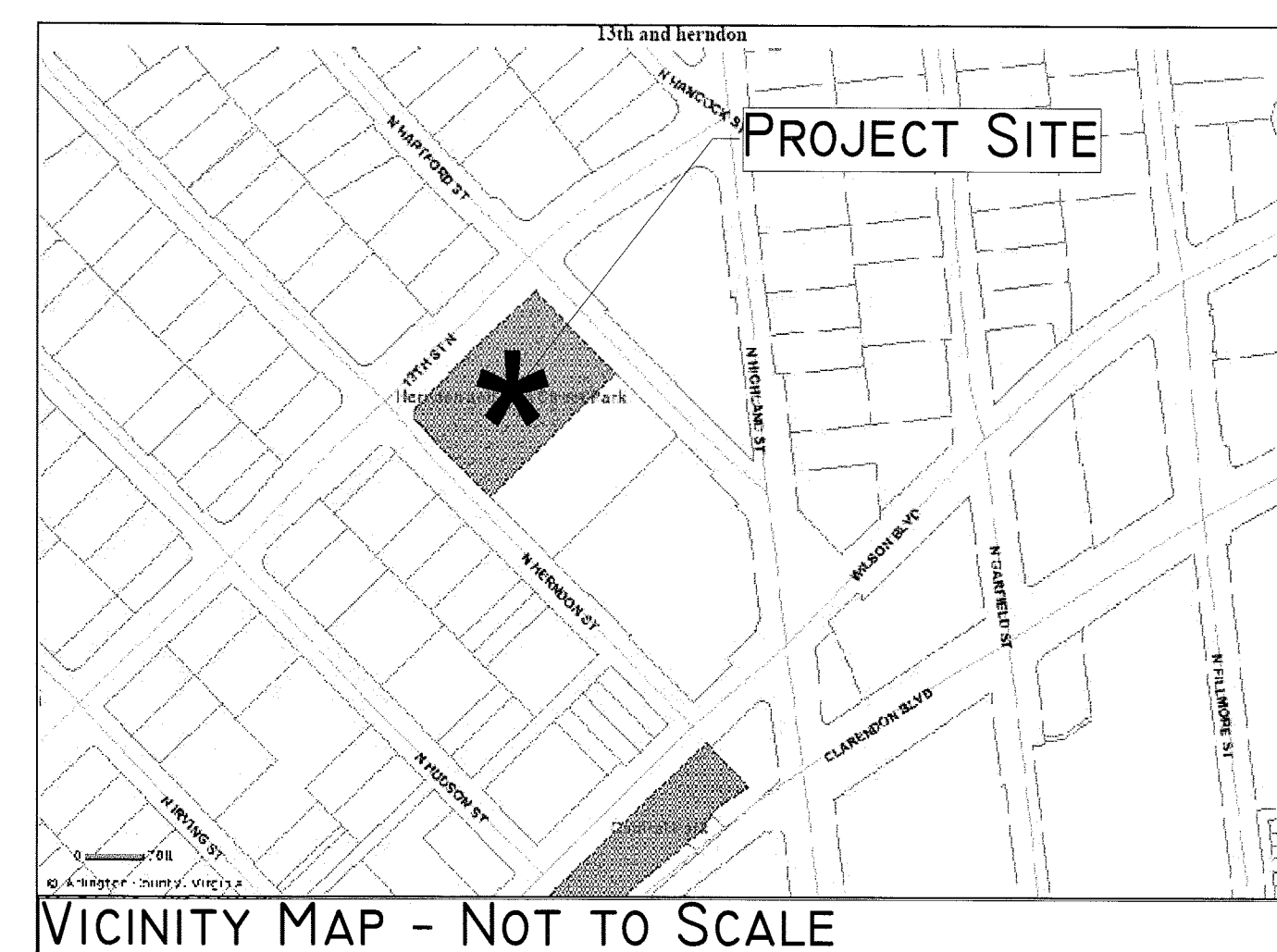


ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

PARK DEVELOPMENT DIVISION

2100 CLARENDON BOULEVARD, SUITE 414, ARLINGTON, VA 22201
PHONE: 703.228.7928 FAX: 703.228.3328 WWW.ARLINGTONVA.US



VICINITY MAP - NOT TO SCALE



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

PARKS DEVELOPMENT DIVISION
2100 CLARENDON BOULEVARD, SUITE 414
ARLINGTON, VA 22201
PHONE: 703.228.7928
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IFB # 670-12

Plans For:

13th and Herndon Park Improvements

1230 N. Hartford Street, Arlington, VA 22201

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GENERAL PROJECT NOTES

- THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE. THE CONTRACTOR SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO THEIR MEANING, HE SHALL BRING THESE ITEMS TO THE ATTENTION OF THE PROJECT OFFICER FOR DIRECTION BEFORE PROCEEDING WITH WORK. ANY WORK DONE THAT DOES NOT MEET THE MOST STRINGENT INTERPRETATION WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS DETERMINED FROM VISIBLE EVIDENCE AND AVAILABLE RECORDS. ADDITIONAL UNDERGROUND UTILITY LINES MAY BE PRESENT THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE EXISTING UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR ADHERENCE TO ALL ORDINANCES, REGULATIONS, LAWS AND CODES HAVING JURISDICTION OVER THE PROPERTY.
- THE CONTRACTOR SHALL SUBMIT A REQUIRED "RESPONSIBLE LAND DISTURBER" CERTIFICATION LETTER AS PART OF OBTAINING A BUILDING (OR DISTURBANCE) PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR LICENSING AS REQUIRED BY APPLICABLE REGULATORY AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SALES, USE AND CAPITAL GAINS TAXES.
- SUBSTITUTIONS IN PRODUCTS AND MATERIALS ARE NOT ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT OFFICER.
- THE CONTRACTOR SHALL IDENTIFY ALL STAGING AREAS AND LIMITS OF WORK FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO THE START OF WORK. AREAS OUTSIDE LIMITS OF WORK SHALL NOT BE USED FOR STORAGE OR MOVEMENT OF MATERIALS, MACHINERY OR DEBRIS.
- THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR TIMES OF DAY DURING WHICH CONSTRUCTION OPERATIONS MAY OCCUR. ALL CONSTRUCTION OPERATIONS SHALL OCCUR WITHIN TIMES SPECIFIED BY LOCAL ORDINANCES.
- THE CONTRACTOR SHALL BE ON SITE AT TIME OF ALL MATERIALS DELIVERIES.
- THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND FREE OF TRASH AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRASH RECEPTACLE TO BE USED ON SITE DURING CONSTRUCTION AND SHALL REMOVE TRASH FROM THE SITE ON A DAILY BASIS.
- THE CONTRACTOR SHALL KEEP VEHICULAR ACCESS AREAS CLEAN DURING CONSTRUCTION. VEHICULAR AND OTHER PAVED AREAS SHALL BE WASHED FREE OF MUD ON A WEEKLY BASIS DURING CONSTRUCTION.
- CONSTRUCTION AREA SHALL BE SECURED WITH FENCING AT END OF WORKDAY AND WHEN CONTRACTOR IS NOT ON SITE.
- THE CONTRACTOR SHALL DISTRIBUTE ALL PROJECT MATERIALS AND EQUIPMENT AND DISTRIBUTE ANY STOCKPILES IN SUCH A MANNER AS TO PROTECT EXISTING CONDITIONS, SUCH AS UTILITIES, PAVING, VEGETATION, ETC. THE CONTRACTOR SHALL NOT STOCKPILE SOIL OR CONSTRUCTION MATERIALS, OR DRIVE VEHICLES WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES TO REMAIN. THE CONTRACTOR SHALL OBTAIN THE PROJECT OFFICER'S APPROVAL FOR ALL CONSTRUCTION ACCESS AREAS, STAGING AND STOCKPILE AREAS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT BLOCK STREETS, PARKING AREAS, HOUSE OR DRIVEWAY ENTRANCES DURING CONSTRUCTION WITHOUT THE PROJECT OFFICER'S PERMISSION.
- THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF ALL PAVEMENT, WALLS, AND SITE FEATURES IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROMPTLY REPAIR ALL DAMAGE TO EXISTING PAVEMENT, DRIVEWAYS, AND ADJACENT FACILITIES CAUSED BY CONSTRUCTION OPERATIONS. COST REPAIRS SHALL BE AT CONTRACTOR'S EXPENSE.
- UPON COMPLETION OF THE PROJECT, ALL EXCESS SOIL, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. ALL PAVED AREAS, WALLS, ETC. SHALL BE THOROUGHLY WASHED AND CLEANED UPON COMPLETION OF THE PROJECT.
- REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CHESAPEAKE BAY PRESERVATION ORDINANCE

OWNERS/OPERATORS OF ALL CONSTRUCTION ACTIVITIES LARGER THAN 2,500 SQUARE FEET LOCATED IN ARLINGTON COUNTY (A CHESAPEAKE BAY PRESERVATION LOCALITY) ARE REQUIRED TO APPLY TO DCR FOR REGISTRATION COVERAGE UNDER THE GENERAL PERMIT FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITIES.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES ARE REQUIRED ON DEVELOPMENT PLANS WITH FRONTAGE ALONG ARLINGTON COUNTY STREETS AND WILL BE EDITED AS NEEDED TO REFLECT SPECIFIC SITE CONDITIONS:

- ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS.
- THE DEVELOPER OR CONTRACTOR SHALL REMOVE AND REPLACE, TO THE CURRENT ARLINGTON COUNTY DES STANDARDS AND SPECIFICATIONS, ALL SECTIONS OF SIDEWALK AS INDICATED IN THE PLANS AND ANY EXISTING ENTRANCES, CURB AND GUTTER OR SIDEWALK ALONG THE FRONTAGE OF THIS SITE IN POOR CONDITION, OR DAMAGED DURING CONSTRUCTION.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLOSING, TO ARLINGTON COUNTY STANDARDS, ANY EXISTING ENTRANCES NOT BEING USED IN CONJUNCTION WITH THIS DEVELOPMENT.
- THE DEVELOPER OR CONTRACTOR SHALL OBTAIN ARLINGTON COUNTY PERMITS FOR ALL OF THIS SITE.
- THERE MAY BE UNDERGROUND CONDUIT, CABLES AND TRAFFIC DETECTION DEVICES IN THIS AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TRAFFIC CONTROLS THAT ARE DISTURBED DURING CONSTRUCTION. NOTIFY THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU AT (703) 228-3575, 24 HOURS PRIOR TO STARTING WORK.
- THE DEVELOPER OR CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU. CONTACT TRANSPORTATION ENGINEERING AT (703) 228-3575.
- THE DEVELOPER OR CONTRACTOR SHALL OBTAIN A PERMIT FROM THE TRANSPORTATION ENGINEERING & OPERATIONS BUREAU, PRIOR TO PLACING ANY OBSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY, OR ON SIDEWALKS ALONG THE FRONTAGE OF THIS DEVELOPMENT.
- ALL SANITARY SEWER CLEAN-OUTS LOCATED WITHIN THE TRAVEL WAY OR PARKING LOT OF THIS DEVELOPMENT SHALL BE CAST IRON.
- THE CONTRACTOR SHALL CONSTRUCT ALL HANDICAP RAMPS TO THE CURRENT VDOT STANDARD. USE 2'X 2' TRUNCATED DOME PANELS.
- THE DEVELOPER OR CONTRACTOR SHALL OBTAIN PERMITS FROM THE INSPECTION SERVICES DIVISION PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION OF ON-SITE FACILITIES. FOR INFORMATION AND PERMIT REQUIREMENTS TELEPHONE (703) 228-3800.

UTILITY MARKING REQUIREMENTS:

- THE DEVELOPER OR CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 800-552-7001/72 HOURS PRIOR TO THE START OF ANY EXCAVATION OR CONSTRUCTION, FOR THE MARKING OF UNDERGROUND UTILITIES.

ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WATER-SEWER CONSTRUCTION REQUIREMENTS (REVISED MARCH 2005)

- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS & SPECIFICATIONS (LATEST EDITION) AND SHALL BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES. UPON PHYSICAL INSPECTION, THE COUNTY RESERVES THE RIGHT TO REJECT THE USE OF ANY MATERIAL FOUND TO BE DEFECTIVE OR NOT CONFORMING TO THE STANDARDS AND SPECIFICATIONS.
- BEFORE START OF CONSTRUCTION, THE DEVELOPER SHALL FURNISH THE FOLLOWING INFORMATION AND/OR EVIDENCE OF COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND LAWS, TO THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES:

- THE NAME AND ADDRESS OF THE CONTRACTOR HIRED TO WORK ON THE PROJECT. THE CONTRACTOR SHALL BE REGISTERED IN THE COMMONWEALTH OF VIRGINIA. SATISFACTORY EVIDENCE SHALL BE FURNISHED OF THE CONTRACTOR'S PRIOR EXPERIENCE AS PRIME CONTRACTOR IN THE CONSTRUCTION OF WATER MAINS AND/OR SANITARY SEWER INSTALLATIONS. FURTHER, THE CONTRACTOR SHALL FURNISH A LETTER WITH A LIST OF MATERIALS AND SUPPLIERS FOR PROPOSED PROJECT.

- A RIGHT OF WAY PERMIT IS REQUIRED TO WORK IN ARLINGTON COUNTY STREETS. IN INSTANCES OF EXCAVATIONS IN STATE RIGHT OF WAY, THE DATE AND NUMBER OF ALL PERMITS REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) SHALL BE FURNISHED.

- IF ANY OTHER EASEMENT IS NEEDED, TWO (2) COPIES OF THE DESCRIPTION OF SUCH EASEMENT, AS ACTUALLY RECORDED, SHALL BE FURNISHED, INCLUDING THE PLACE, DATE AND REFERENCE OF SUCH RECORDATION.

- WRITTEN NOTICE OF TENTATIVE STARTING DATE OF CONSTRUCTION, WHICH SHALL BE A MINIMUM OF ONE (1) WEEK FOLLOWING THE DATE OF NOTICE TO PROCEED. IN ADDITION, THE DEVELOPER SHALL FURNISH THE NAMES AND TELEPHONE NUMBERS OF TWO (2) RESPONSIBLE PERSONS WHO CAN BE CONTACTED IN CASE OF EMERGENCY.

ACTUAL CONSTRUCTION SHALL NOT BEGIN UNTIL THE ABOVE ITEMS HAVE BEEN COMPLETED AND THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES APPROVED THE STARTING DATE AND ARRANGEMENTS HAVE BEEN MADE FOR THE REQUIRED INSPECTION SERVICE.

- ALL CONSTRUCTION SHALL BE ACCOMPLISHED FROM APPROVED PLANS, SPECIFICATIONS AND CUT SHEETS SUBMITTED BY A REGISTERED ENGINEER AND APPROVED BY THE COUNTY. TO AVOID CONSTRUCTION DELAYS ALL NECESSARY TEST HOLE INFORMATION SHALL BE OBTAINED PRIOR TO MOBILIZATION AND CONSTRUCTION PLANS SHALL BE REVISED ACCORDINGLY.

- NO EXISTING WATER MAINS, FIRE HYDRANTS, OR SANITARY SEWERS MAY BE TAKEN OUT OF SERVICE OR MADE INACCESSIBLE BY THE CONTRACTOR WITHOUT THE PRIOR APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES.

- IN CASES WHERE A PROPOSED SANITARY SEWER IS TO BE CONNECTED TO AN EXISTING SANITARY MANHOLE, THE MANHOLE SHALL BE RECONSTRUCTED OR REPLACED BY THE DEVELOPER AS DIRECTED BY THE COUNTY TO MEET THE CURRENT STANDARDS. ALL NEW CONNECTIONS TO THE EXISTING MANHOLES SHALL BE CORE DRILLED WITH BOOT JUST ABOVE THE EXISTING BENCH AND THE FLOW CHANNELS RESHAPED AS NEEDED.

- UPON COMPLETION OF CONSTRUCTION, ALL FINAL TESTS, AS REQUIRED, SHALL BE PERFORMED IN THE PRESENCE OF THE COUNTY'S REPRESENTATIVE. WATER AND SEWER SERVICE CONNECTIONS SHALL NOT BE MADE UNTIL THE WATER AND/OR SEWER MAINS AND APPURTENANCES HAVE BEEN APPROVED AND ACCEPTED BY ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

- EXISTING WATER SERVICES MAY BE ALLOWED FOR CONSTRUCTION PURPOSES ONLY FOR WHICH CONTRACTOR SHALL REQUEST TO THE ARLINGTON COUNTY'S UTILITY SERVICES BY CALLING 703-228-3636. PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT, THE DEVELOPER SHALL REQUEST TO THE UTILITY SERVICES IN WRITING FOR THE DISCONTINUATION OF ALL EXISTING WATER SERVICES. ALSO, THE DEVELOPER IS RESPONSIBLE FOR REMOVING ALL EXISTING METER BOXES RELATED TO THE SERVICES BEING DISCONTINUED.

- THE CONTRACTOR SHALL MAINTAIN BACKFILL FOR UTILITY EXCAVATIONS UNTIL ARLINGTON COUNTY HAS FINALLY ACCEPTED THE PROPOSED WATER AND/OR SEWER MAIN. ALSO, ALL SURFACES OVER THE UTILITY EXCAVATIONS SHALL EITHER BE RESTORED TO THE ORIGINAL CONDITION OR FINISHED AS PER THE PROPOSED DESIGN BEFORE THE ACCEPTANCE OF THE PROJECT. PAVEMENT PATCHING FOR UTILITY CUTS IN THE PUBLIC STREETS SHALL BE PERFORMED IN ACCORDANCE WITH ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION STANDARDS AND SPECIFICATIONS OR AS PER VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS DEPENDING UPON THE STREET JURISDICTION. PRIOR TO FINAL PAVING, THE CONTRACTOR SHALL ADJUST ALL EXISTING VALVE BOXES AND SANITARY SEWER MANHOLE FRAME AND COVERS AS PER COUNTY STANDARDS, REMOVE ALL ABANDONED SANITARY MANHOLES AND VALVE BOXES OVER THE ABANDONED WATER MAINS, AND COMPLETE ALL NECESSARY WATER MAIN "CUT AND CAPS".

- UPON COMPLETION, APPROVAL, AND ACCEPTANCE OF WATER AND/OR SEWER MAINS AND APPURTENANCES, THE CONTRACTOR'S REGISTERED ENGINEER SHALL SUBMIT TO ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, A SET OF MYLAR TRACINGS INDICATING THE AS-BUILT CONDITIONS AND A SIGNED STATEMENT CONFIRMING THAT THE WORK, AS INDICATED, IS ACCEPTABLE TO THE ENGINEER. SUCH SUBMITTALS SHALL BE MADE BEFORE REQUESTING REDUCTION AND/OR RELEASE OF THE SURETY BOND.

13th and HERNDON PARK IMPROVEMENTS
(By - Right)
1230 N. Hartford Street

Approvals Date

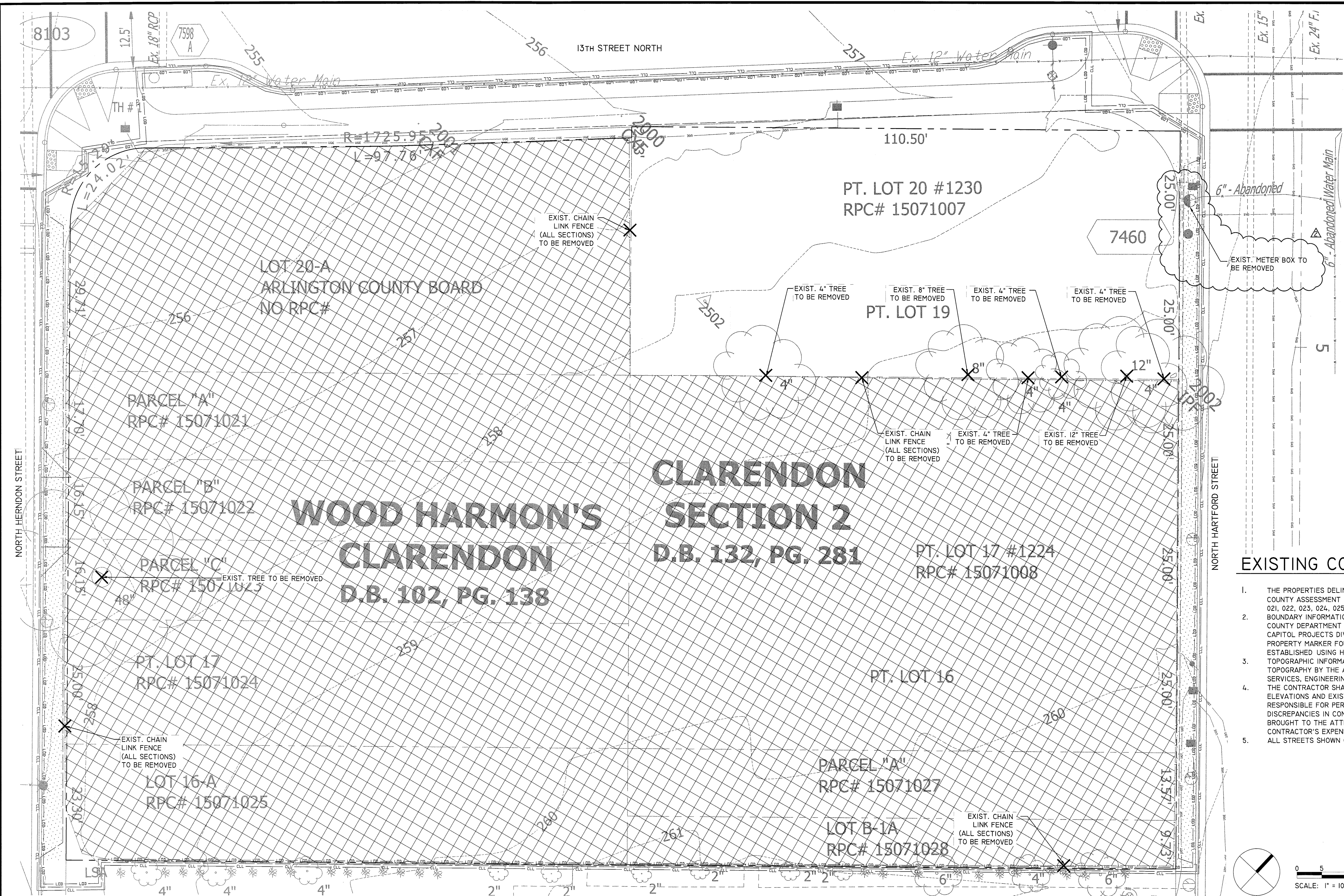
Dinesh Tiwari 1/25/12
DEPARTMENT DIRECTOR

[Signature] 1/25/12
PLANNING AND DESIGN DIVISION CHIEF

[Signature] 1/20/12
DESIGN TEAM SUPERVISOR

PARK SERVICE AREA MANAGER

URBAN FORESTRY



UTILITIES LEGEND

	HYD
	WATER VALVE
	WATER METER
	POWER POLE
	LIGHT POLE
	ELEC. MH
	SIGN
	GAS VALVE
	HANDICAP RAMP
	TREE
	BUSH
	STORM DRAIN
	TRASH CAN
	PARKING METER
	GUY WIRE
	TRAVERSE
	UNDG. PHONE
	UNDG. ELEC.
	GAS LINE
	WATER LINE
	SANITARY SEWER
	STORM SEWER
	EDGE OF BRICK
	CHAIN LINK FENCE
	PROPERTY LINE
	CURB AND GUTTER



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IFB # 23-11

Project Name and Location
13th & Herndon Park Improvements

1230 N. Hartford Street

Sheet Title
Existing Conditions & Removals Plan

Approvals	Date
<i>Dinesh Tiwari</i> Department Director	1/25/12
<i>[Signature]</i> Park Development Division Chief	1/25/12
<i>[Signature]</i> Design Unit Supervisor	1/20/12

EXISTING CONDITIONS NOTES

- THE PROPERTIES DELINEATED ON THIS PLAN ARE LOCATED ON ARLINGTON COUNTY ASSESSMENT MAP 053-03. REFERENCED AS RPC 15071007, 008, 015, 021, 022, 023, 024, 025, 027, PCA AND ARE ZONED C-3.
- BOUNDARY INFORMATION IS BASED ON A FIELD SURVEY BY THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, ENGINEERING AND CAPITOL PROJECTS DIVISION, SURVEY SECTION. THERE WAS ONLY ONE PROPERTY MARKER FOUND (IIPF 2002). PROPERTY LINE HAS BEEN ESTABLISHED USING HISTORICAL DATA AND STREET CENTERLINES.
- TOPOGRAPHIC INFORMATION SHOWN HEREON COMPILED FROM FIELD RUN TOPOGRAPHY BY THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, ENGINEERING AND CAPITOL PROJECTS DIVISION, SURVEY SECTION.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, SPOT ELEVATIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR PERFORMING THE WORK IN ACCORDANCE WITH SAME. ANY DISCREPANCIES IN CONTRACT DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT OFFICER OR CORRECTED AT CONTRACTOR'S EXPENSE.
- ALL STREETS SHOWN ON PLANS ARE COUNTY OWNED.

Revisions	Date
	PER ZONING REVIEW 9/14/11
	PER DES REVIEW 10/12/11
	PER_PRCR_REVIEW 12/22/11

Designed: AW
 Drawn: AW
 Checked: BG

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 Plotted: Jan 18, 2012

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 Date: 22 DECEMBER, 2011

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Sheet 2 of 39

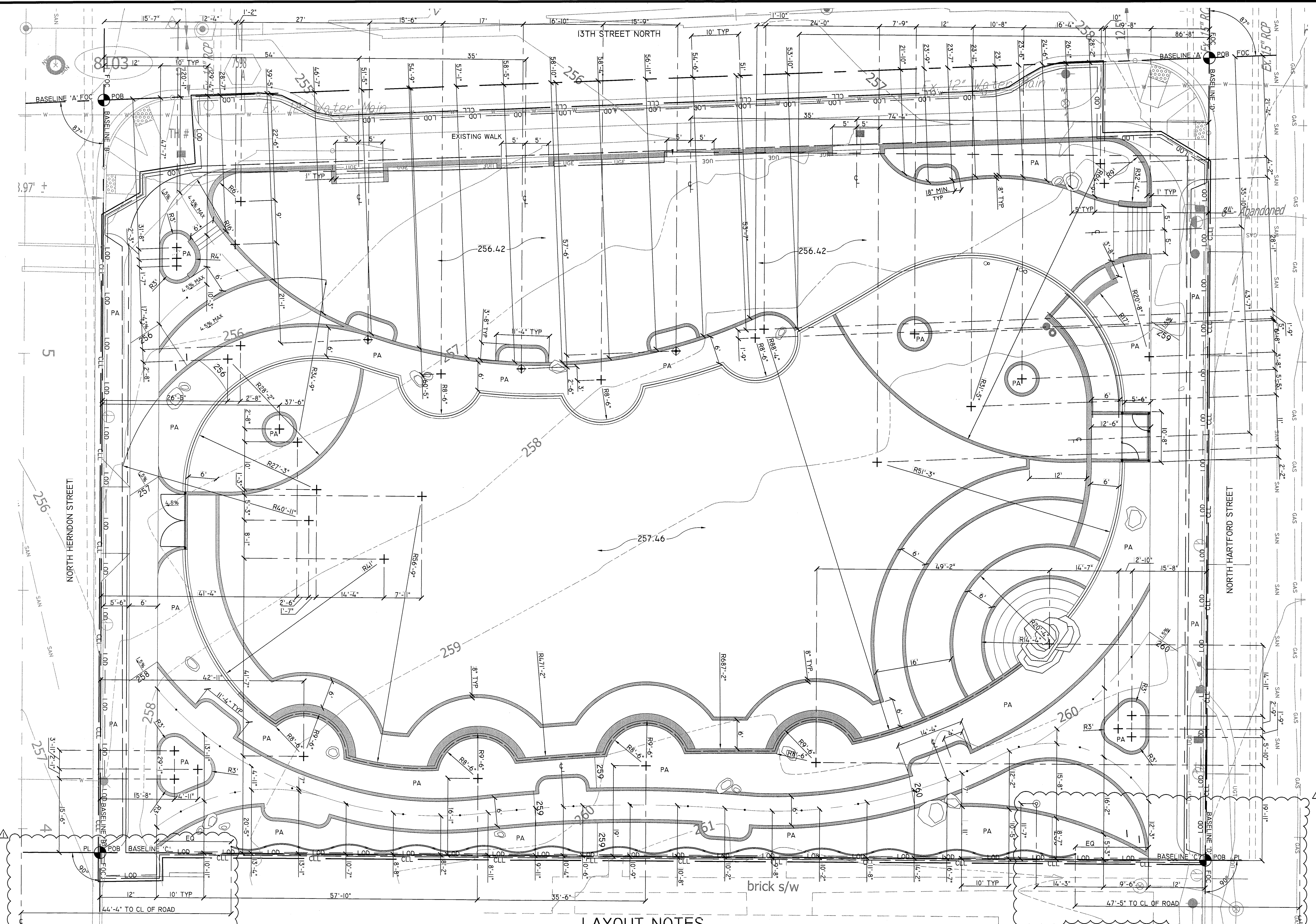
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REMOVAL NOTES

- TREE PRESERVATION FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION OPERATIONS. REFER TO SHEET GC-501 FOR DETAILS.
- CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 811 IN VA OR 1-800-552-7001. A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION, TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
- ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE SHALL BE STABILIZED IMMEDIATELY AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT. STOCKPILES SHALL BE CONTAINED BY STRAW BALES OR EROSION CONTROL FENCING AND COVERED WITH PLASTIC OR CANVAS AT THE END OF EACH WORK DAY FOR THE DURATION OF THE PROJECT.
- TEMPORARY CONSTRUCTION FENCING SHALL BE ERECTED AS SHOWN ON THE PLANS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS AND MAINTAINED UNTIL COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL COMPLETELY AND LEGALLY REMOVE FROM SITE ALL OF EXISTING WOOD CHIP MULCH.
- CONTRACTOR SHALL COMPLETELY AND LEGALLY REMOVE FROM SITE EXISTING CONCRETE WALK AS SHOWN ON PLANS. THE CONTRACTOR SHALL ENSURE THAT ALL SAW CUTTING OF PAVEMENTS AND SIDEWALKS SHALL BE DONE NEAT AND ACCURATELY.
- CONTRACTOR SHALL REMOVE ALL MISC. DEBRIS (I.E. CONCRETE FORMS, BRICK PAVERS, ETC.) THAT ARE NOT REPRESENTED IN THE PLANS.
- THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERCOURSES.
- UPON COMPLETION OF THE PROJECT, ALL EXCESS SOIL, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. ALL PAVED AREAS, WALLS, ETC. SHALL BE THOROUGHLY WASHED AND CLEANED UPON COMPLETION OF THE PROJECT
- CONTRACTOR IS RESPONSIBLE MATERIAL ENCOUNTERED TO PROJECT SUBGRADE. UNDERCUT OF UNSUITABLE SUBGRADE TO BE DONE ACCORDING TO UNIT PRICING.

LEGEND

SYMBOL	ITEM	REMARKS	SYMBOL	ITEM	REMARKS
	EXISTING WOOD CHIPS/MULCH TO BE REMOVED	REMOVE FULL DEPTH AND DISPOSE OF OFF SITE		LIMITS OF DISTURBANCE	FINAL LOCATIONS SHALL BE AS APPROVED BY THE PROJECT OFFICER.
	EXISTING CONCRETE WALK TO BE REMOVED	REMOVE FULL DEPTH AND DISPOSE OF OFF SITE		CONTRACT LIMIT LINE	
	ITEM TO BE REMOVED	ITEMS SHALL BE COMPLETELY REMOVED, INCLUDING ALL FOOTINGS OR STUMPS		CONSTRUCTION FENCE	FINAL LOCATION(S) REQUIRE APPROVAL.
	TREE PROTECTION FENCING - REFER TO DETAIL TP, SHEET GC-501	FINAL LOCATIONS SHALL BE AS APPROVED BY THE PROJECT OFFICER.		SILT FENCE - REFER TO E&S PLAN AND DETAILS, SHEET GC-501	FINAL LOCATIONS SHALL BE AS APPROVED BY THE PROJECT OFFICER.



CONSTRUCTION ABBREVIATIONS (AS APPLICABLE)

ALIGN	ALIGNMENT
BBQ	BARBECUE
BS	BOTTOM OF STEP
C/L	CENTERLINE
COC	CENTERLINE OF COLUMN
CONC	CONCRETE
DIA	DIAMETER
ELEV	ELEVATION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISH SURFACE
PA	PLANTING AREA
PAD	PAD
PL	PROPERTY LINE
POB	POINT OF BEGINNING
R	RADIUS
RIM	RIM
SHT	SHEET
SO	SQUARE
ST	STEP(S)
SYM	SYMBOL
TC	TOP OF CURB
TCS	TOP OF COLUMN
TS	TOP OF STEP
TYP	TYPICAL
TW	TOP OF WALL
*	SPOT ELEVATION PER SURVEY

IFB # 23-11

Project Name and Location
**13th & Herndon
Park Improve-
ments**

1230 N. Hartford Street

Sheet Title
Layout Plan

Approvals Date

<i>Dinesh Tiwari</i>	1/25/12
Department Director	
<i>J. D. Sh...</i>	1/25/12
Park Development Division Chief	
<i>P. S. Smith</i>	1/20/12
Design Unit Supervisor	

Revisions Date

△ PER ZONING REVIEW	9/14/11
△ PER DES REVIEW	10/12/11
△ PER PRCR REVIEW	12/22/11

Designed: AW
Drawn: AW
Checked: BG

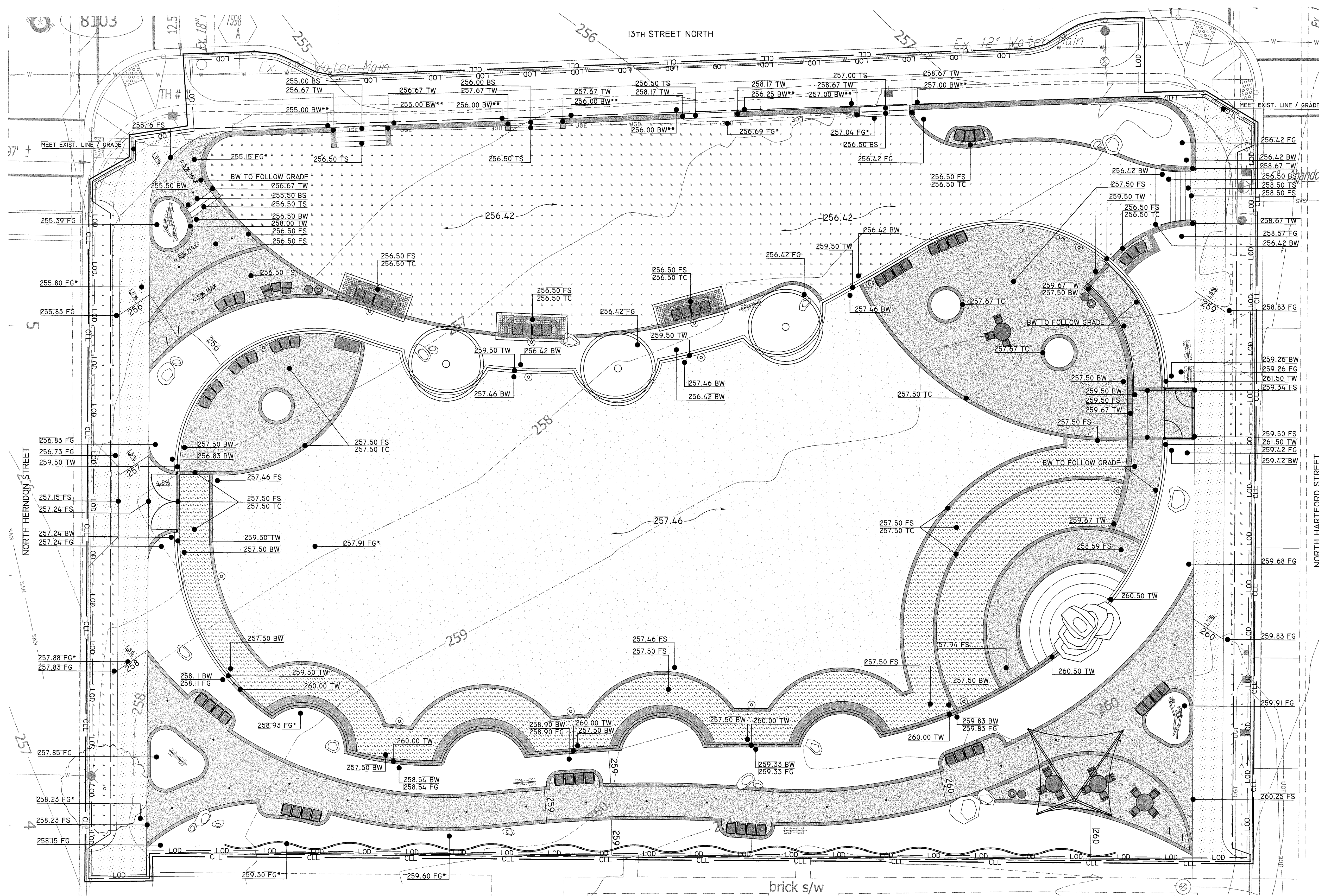
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Date: 22 DECEMBER, 2011

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LAYOUT NOTES

1. THE POINT OF BEGINNING (POB) SHALL BE THE INTERSECTION OF THE CURB FACES AND PROPERTY LINE, AS SHOWN ON THE DRAWING.
2. FOR THE PURPOSES OF THIS LAYOUT, BASELINE 'A' SHALL BE ALIGNED WITH THE FACE OF CURB AT 13TH STREET N., AND BASELINE 'B' SHALL BE ALIGNED WITH FACE OF CURB AT N. HERNDON ST., PERPENDICULAR TO BASELINE 'A'. BASELINE 'C' SHALL BE ALIGNED WITH THE PROPERTY LINE AND BASELINE 'D' SHALL BE ALIGNED WITH THE FACE OF CURB AT N. HARTFORD STREET, PERPENDICULAR TO BASELINE 'C'.
3. NEW WORK SHALL MEET AND MATCH EXISTING ALIGNMENT OF FEATURES AND FINISHED GRADES AT EXISTING PAVEMENT OR OTHER FACILITIES TO REMAIN. THE CONTRACTOR SHALL MAKE ANY NECESSARY MINOR ADJUSTMENTS IN THE PROPOSED WORK TO MEET THE INTENT OF THE PLANS AND TO PROVIDE SMOOTH TRANSITIONS BETWEEN EXISTING CONDITIONS AND NEW WORK.
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, SPOT ELEVATIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR PERFORMING THE WORK IN ACCORDANCE WITH THE SAME. CONTRACTOR SHALL NOTIFY PROJECT OFFICER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH WORK.
5. THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF PAVEMENT, EDGING, WALKS, AND SITE FEATURES IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO INSTALLATION. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT OF THE PROJECT WITHOUT WRITTEN APPROVAL BY THE PROJECT OFFICER PRIOR TO INSTALLATION.
6. LAYOUT OF PARK BENCHES, PICNIC TABLE, LANDSCAPE BOULDERS, TRASH RECEPTACLES AND BIKE RACKS IS APPROXIMATE. LAYOUT SHALL BE DETERMINED AND VERIFIED BY PROJECT OFFICER IN THE FIELD.



CONSTRUCTION ABBREVIATIONS

ALIGN	(AS APPLICABLE)
BS	ALIGNMENT
BW	BOTTOM OF WALL
CB	CATCH BASIN
C/L	CENTERLINE
CONC	CONCRETE
DIA	DIAMETER
ELEV	ELEVATION
FG	FINISH GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISH SURFACE
HP	HIGH POINT
LP	LOW POINT
PA	PLANTING AREA
PAD	PAD
POB	POINT OF BEGINNING
R	RADIUS
RIM	RIM
SHT	SHEET
SO	SQUARE
ST	STEP(S)
SYM	SYMBOL
TC	TOP OF CURB
TOC	TOP OF COLUMN
TS	TOP OF STEP
TYP	TYPICAL
TW	TOP OF WALL
VAR	VARIOUS
*	SPOT ELEVATION
**	PER SURVEY
	SPOT ELEVATION
	OF MATCH GRADE
	OF EXISTING
	PAVEMENT SURFACE



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 23-11

Project Name and Location

**13th & Herndon
Park Improve-
ments**

1230 N. Hartford Street

Sheet Title
Grading Plan

Approvals Date

Divya Tiwari 1/25/12
Department Director
J. D. D. 1/25/12
Park Development Division Chief
J. G. W. 1/20/12
Design Unit Supervisor

Revisions Date

▲ PER ZONING REVIEW 9/14/11
▲ PER DES REVIEW 10/12/11
▲ PER PRCR REVIEW 12/22/11

Designed: AW
Drawn: AW
Checked: BG

Filename: Grading_R.dwg
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 22 DECEMBER, 2011

Seal

Sheet 4 of 39

L-4.0

GRADING LEGEND:

- 257 ---
- 257
- 60.00
- 1.5%
- LOD
- CLL
- W
- SAN
-

GRADING LEGEND(CONTINUED):

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SLOPE
- LIMITS OF DISTURBANCE
- CONTRACT LIMIT LINE
- WATER LINE
- SANITARY SEWER
- STORM SEWER
- PROPERTY LINE
- SYNTHETIC TURF SURFACING - REFER TO SPECIFICATIONS
- CONCRETE PAVEMENT - REFER TO SPECIFICATIONS
- PERVIOUS PAVEMENT - REFER TO SPECIFICATIONS
- CRUSHER FINES / WASHED STONE DUST SURFACING
- TURFGRASS - REFER TO SPECIFICATIONS
- STORM SEWER MANHOLE
- VAR L7.0
- 9.10.11 L7.1
- 1.2 L7.0
- 3.4 L7.0

GRADING NOTES:

1. NEW WORK SHALL MEET AND MATCH EXISTING ALIGNMENT OF FEATURES AND FINISHED GRADES AT EXISTING PAVEMENT AND OTHER FACILITIES TO REMAIN. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED WORK TO MEET THE INTENT OF THE PLANS AND TO PROVIDE SMOOTH TRANSITIONS BETWEEN EXISTING CONDITIONS AND NEW WORK.
2. THE SPOT ELEVATIONS AND SLOPES ON THE DRAWINGS ARE REASONABLE AND ACCURATE FOR THEIR PURPOSE. HOWEVER, IN THE EXECUTION OF THE WORK, THE CONTRACTOR SHALL VERIFY ELEVATIONS GIVEN ON DRAWINGS WITH EXISTING CONDITIONS AND NOTIFY THE PROJECT OFFICER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH WORK.
3. SLOPE OF UNPAVED AREAS SHALL NOT EXCEED 3H:IV IN GRADE.
4. ALL PAVED AREAS SHALL BE GRADED TO DRAIN, AS INDICATED IN PLANS. CROSS SLOPES SHALL NOT EXCEED 1.5%. LONGITUDINAL SLOPE SHALL NOT EXCEED 4.75%.
5. SLOPES FOR WALKWAY LANDINGS SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
6. 0° THRESHOLDS SHALL BE MAINTAINED AT ALL PAVEMENT AND DECKING INTERFACES (CHANGE IN LEVEL NO GREATER THAN 1/8" AND MAX. GAPS BETWEEN SURFACES SHALL BE 1/8"), AS PER ADA GUIDELINES.
7. TREE PROTECTION FENCING SHALL BE INSTALLED FOR ALL EXISTING TREES TO REMAIN PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION OPERATIONS.
8. TEST ALL NEW UTILITY AND SITE DRAINAGE SYSTEMS IN THE PRESENCE OF THE PROJECT OFFICER PRIOR TO THE INSTALLATION OF BACKFILL MATERIAL.
9. FOR ALL CONDITIONS WHERE COMPACTED SUBGRADE IS SPECIFIED, PLACE FILL IN SIX INCH LAYERS MAXIMUM AND COMPACT TO 95%.
10. UPON COMPLETION OF WORK REMOVE ALL EXCESS SOIL, MATERIALS, DEBRIS AND EQUIPMENT FROM SITE. DISPOSE OF EXCESS MATERIALS LEGALLY.

DRAINAGE NOTES:

1. REFER TO PASSIVE SUBSURFACE SYSTEM AND STORM WATER MANAGEMENT PLANS AND DETAILS.

EXISTING SOILS

12

URBAN LAND-UDORTHENTS COMPLEX

THIS COMPLEX CONSISTS OF AREAS WHERE MORE THAN 85 PERCENT OF THE SURFACE IS URBAN LAND, COVERED BY BUILDINGS, ASPHALT, CONCRETE, OR OTHER IMPERVIOUS MATERIALS. THE OTHER 15 PERCENT CONSISTS OF AREAS OF DEEP TO VERY DEEP, NEARLY LEVEL (2%) TO MODERATELY SLOPING (15%), WELL AND MODERATELY WELL DRAINED SOILS. THIS UNIT IS APPROXIMATELY 85 PERCENT URBAN LAND, 10 PERCENT UDORTHENTS, AND 5 PERCENT OTHER SOILS. THE UDORTHENTS CONSIST OF MATERIAL THAT HAS BEEN GRADED, CUT, FILLED, OR OTHERWISE DISTURBED DURING URBANIZATION. THE DISTURBED MATERIAL IS LOAMY AND GENERALLY REFLECTS THE SOILS IN THE ADJACENT AREAS.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING MISS UTILITY AT 811. A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY COST INCURRED DUE TO DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
2. DO NOT PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT OFFICER (703-228-7928). THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
3. CONTRACTOR SHALL REMOVE FROM COUNTY PROPERTY ALL UNUSED MATERIAL AND DEBRIS FROM DEMOLITION, EXCAVATION AND CONSTRUCTION, TO THE SATISFACTION OF THE PROJECT OFFICER, ON A DAILY BASIS. COUNTY WASTE RECEPTACLES AND DUMPSTERS MAY NOT BE USED FOR THE DISPOSAL OF CONSTRUCTION DEBRIS.
4. CONSTRUCTION AREA SHALL BE SECURED WITH TEMPORARY CONSTRUCTION FENCING AT END OF WORKDAY AND WHEN CONTRACTOR IS NOT ON SITE.
5. RESTORE ALL DISTURBED AREAS WITH TOPSOIL FILL, SEED AND STRAW. STAKE OFF ALL SEEDED AREAS AFTER INSTALLATION. REFER TO PLANTING PLAN FOR SEED MIX APPLICATION(S).
6. NO CONSTRUCTION ACTIVITIES ARE TO OCCUR TO ADJACENT BUILDINGS OR BUILDING GROUNDS. CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PARK AREA ONLY. CONTRACTOR SHALL CORRECT OR REPLACE IN KIND ANY DAMAGE TO BUILDINGS, FENCES, PATHS AND DRIVES OR GROUNDS CAUSED BY HIS ACTIVITIES.



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

Park Development Division
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Arlington, VA 22201
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IFB # 23-11

Project Name and Location

**13th & Herndon
Park Improve-
ments**

Sheet Title

Grading Plan

Approvals	Date
<i>Dinesh Tiwari</i> Department Director	1/25/12
<i>A. D. Doherty</i> Park Development Division Chief	1/25/12
<i>[Signature]</i> Design Unit Supervisor	1/20/12

Revisions	Date
△ PER ZONING REVIEW	9/14/11
△ PER DES REVIEW	10/12/11
△ PER_PRCR REVIEW	12/22/11

Designed: AW
Drawn: AW
Checked: BG

Filename: Grading_R.dwg
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 22 DECEMBER, 2011

Seal

Sheet 5 of 39

L-4.1

IFB # 23-11

Project Name and Location

**13th & Herndon
Park Improve-
ments**

Sheet Title
Materials Plan

Approvals Date

Dinesh Tisari 1/25/12
Department Director
A. Deleh 1/25/12
Park Development Division Chief
Design 1/20/12
Design Unit Supervisor

Revisions Date

△ PER ZONING REVIEW 9/14/11
△ PER DES REVIEW 10/12/11
△ PER PRCR REVIEW 12/22/11

Designed: AW
Drawn: AW
Checked: BG

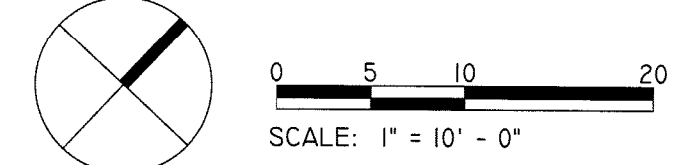
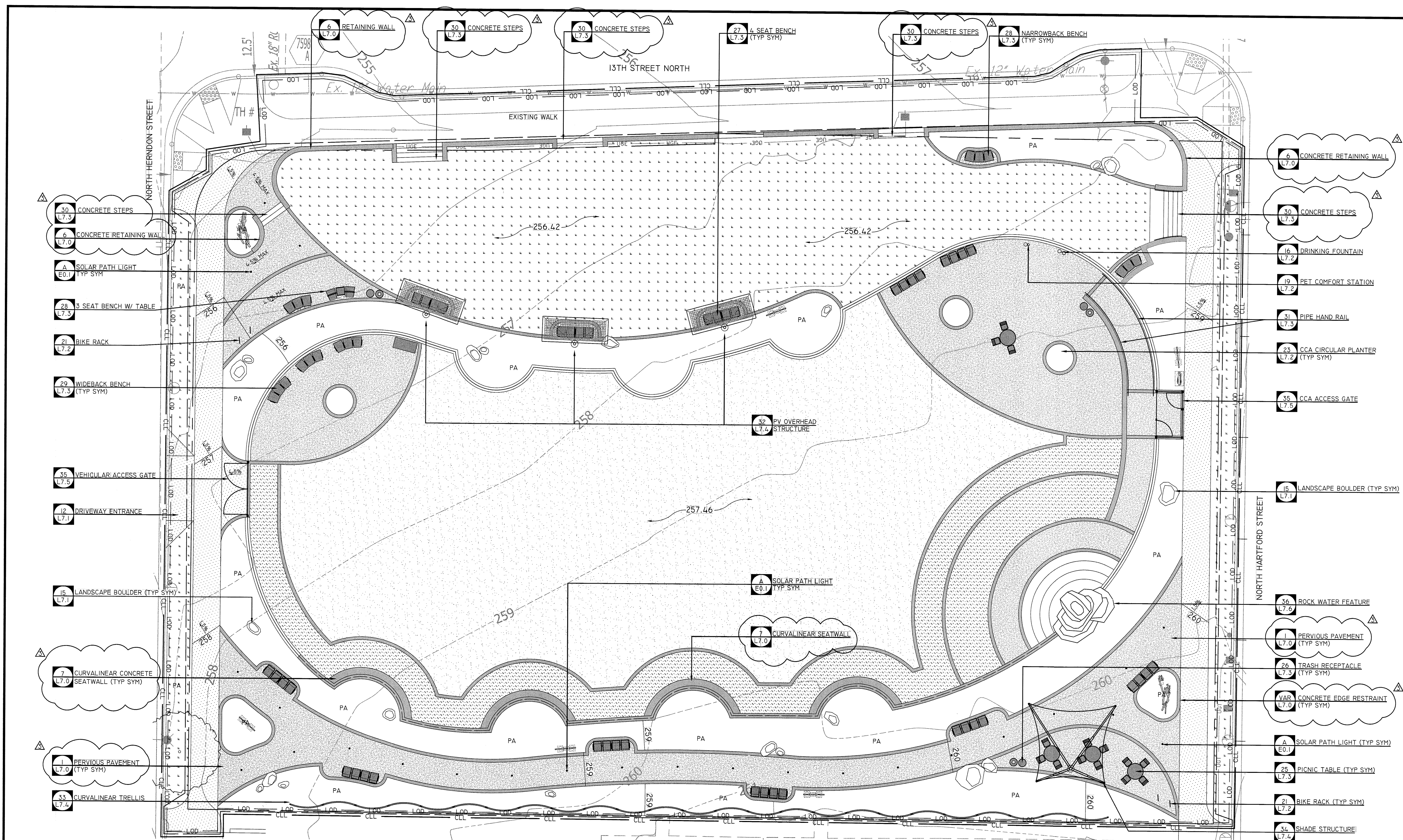
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Plotted: Jan 23, 2012

Scale: AS SHOWN
Date: 24 MARCH, 2011

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Sheet 6 of 33

L-5.0



CONSTRUCTION ABBREVIATIONS
(AS APPLICABLE)

ALIGN	ALIGNMENT
CONC	CONCRETE
PA	PLANTING AREA
SYM	SYMBOL
TYP	TYPICAL
VAR	VARIOUS

MATERIALS LEGEND

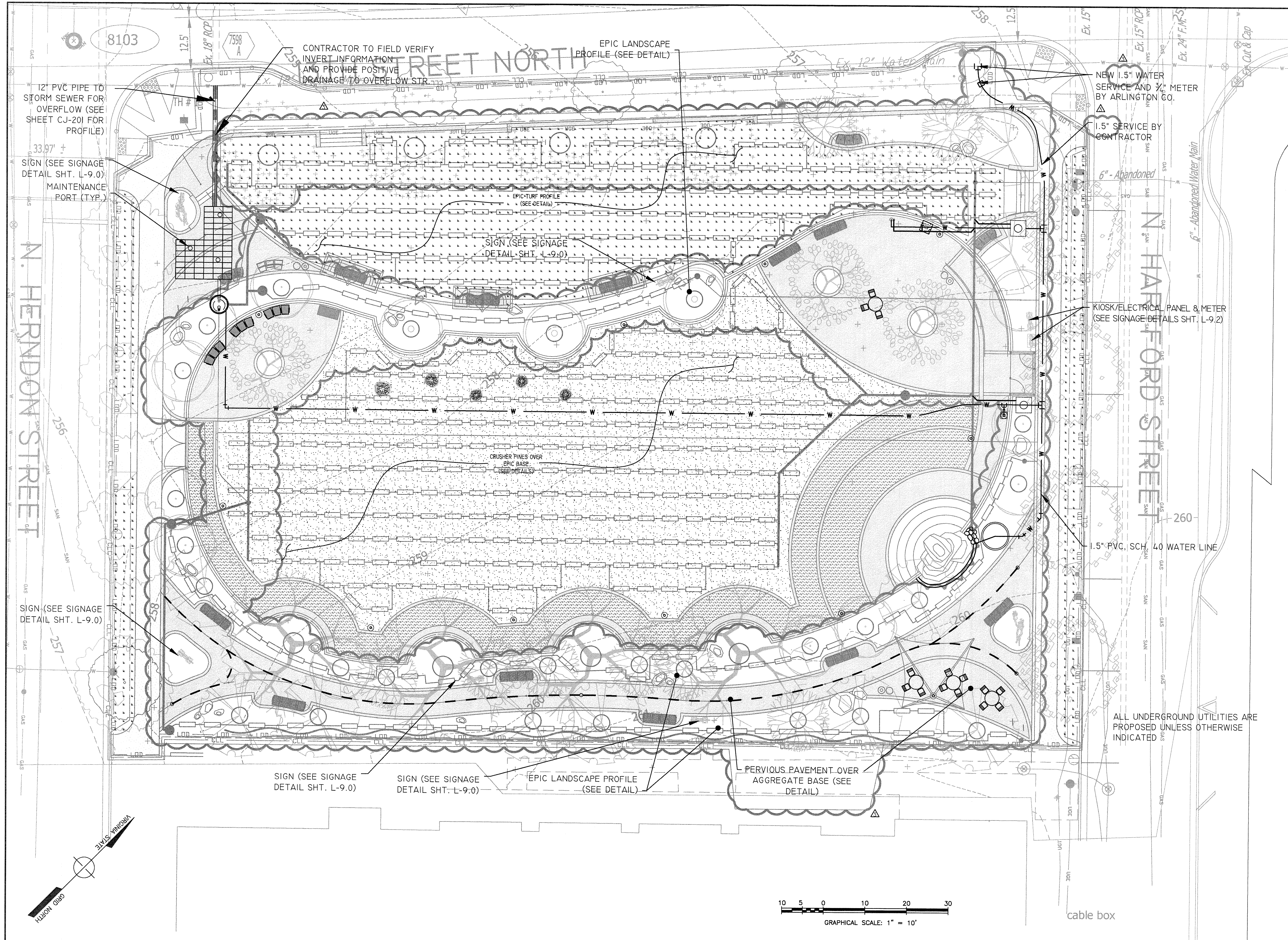
- DETAIL #
SHEET #
- 18" SEATWALL
- SYNTHETIC TURF SURFACING - REFER TO SPECIFICATIONS

MATERIALS LEGEND (CONTINUED)

- CONCRETE PAVEMENT - REFER TO SPECIFICATIONS
- PERVIOUS PAVEMENT - REFER TO SPECIFICATIONS
- CRUSHER FINES / WASHED STONE DUST SURFACING
- TURFGRASS - REFER TO SPECIFICATIONS
- 8" LANDSCAPEFORMS 4-SEAT PLEXUS BENCH - REFER TO SPECIFICATIONS
- LANDSCAPEFORMS 3-SEAT PLEXUS BENCH - REFER TO SPECIFICATIONS

MATERIALS LEGEND (CONTINUED)

- ADA PICNIC TABLE (TYP SYM) - REFER TO SPECIFICATIONS
- TRASH RECEPTACLE (TYP SYM) - REFER TO SPECIFICATIONS
- 6" COMBO PARAGLAS / RETAINING WALL - REFER TO SPECIFICATIONS
- 6" COMBO FENCE / RETAINING WALL - REFER TO SPECIFICATIONS
- CONCRETE EDGE RESTRAINT - REFER TO PLANS AND SPECIFICATIONS
- CONCRETE FOOTING (TYP SYSTEM OVERHEAD STRUCTURES AND SHADE STRUCTURES) - REFER TO SUPPORT FOUNDATION SECTION DETAIL, SHEET S-1.1



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

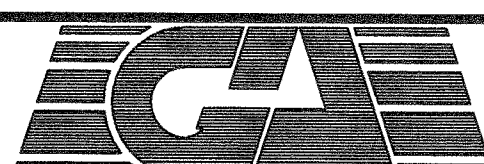
Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location
**13th and
Herndon Park
Improvements**

1299 N. HERNDON ST.
CLARENDON, VA 22201

Sheet Title
SITE UTILITIES PLAN



William H. Gordon Associates, Inc.
Engineers, Land Planners, Landscape Architects, Surveyors
4501 DAILY DRIVE, CHANTILLY, VIRGINIA 20151
Phone: 703.263.1800 Fax: 703.263.9788

Approvals Date

Dinesh Tiwari 1/25/12
Department Director

J. Decker 1/25/12
Park Development Division Chief

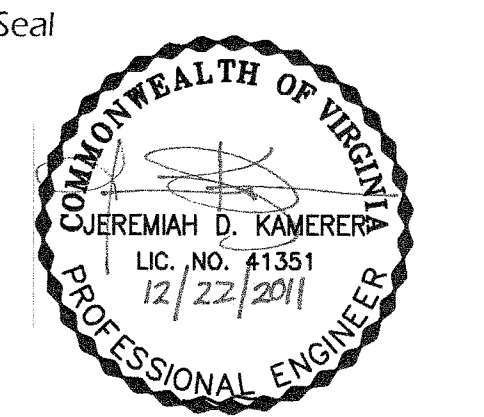
P. Johnson 1/20/12
Design Unit Supervisor

Revisions	Date
DES REVIEW	10/12/2011
PRCR REVIEW	12/22/2011

Designed: F. LUO
Drawn: F. LUO
Checked: R. WALKER

Filename: CU-401-2789-0601.dwg
Plotted: Jan 04, 2012

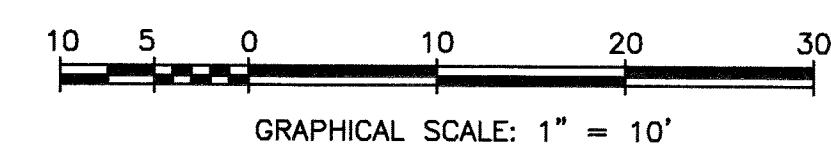
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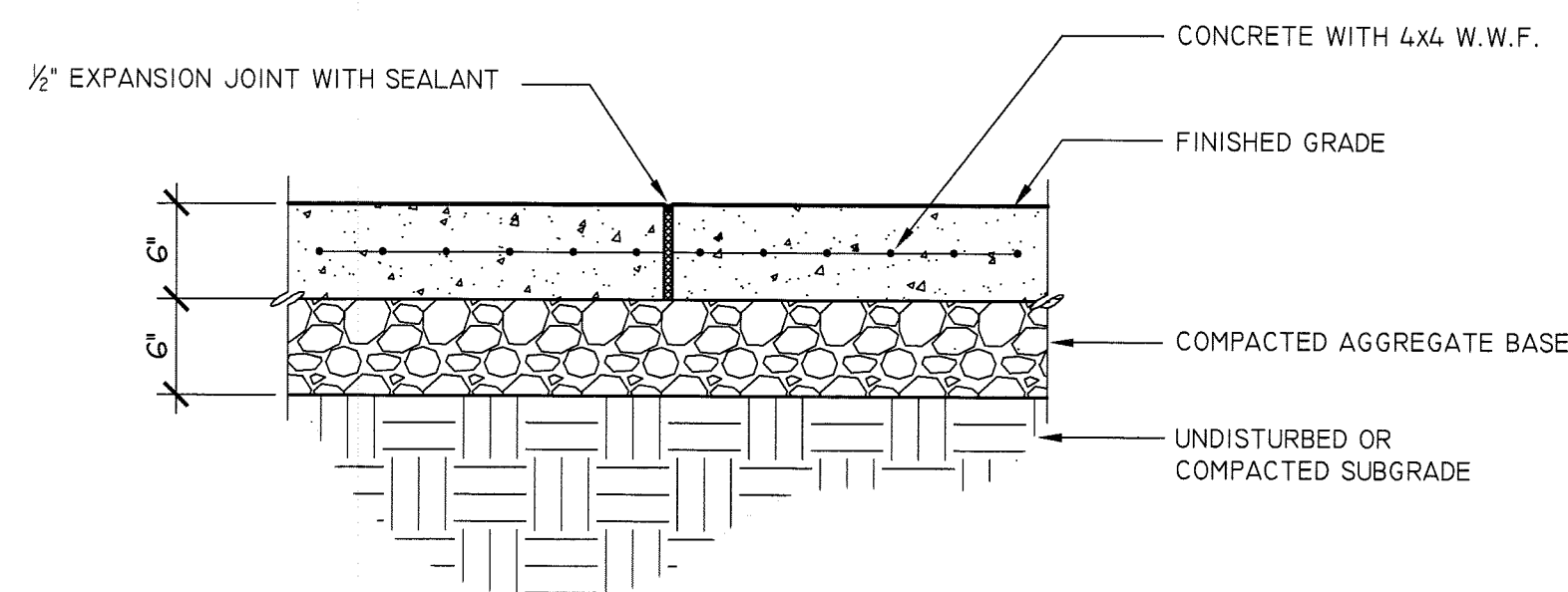


Sheet 08 of 39

CU-401

FOR INFORMATION ONLY

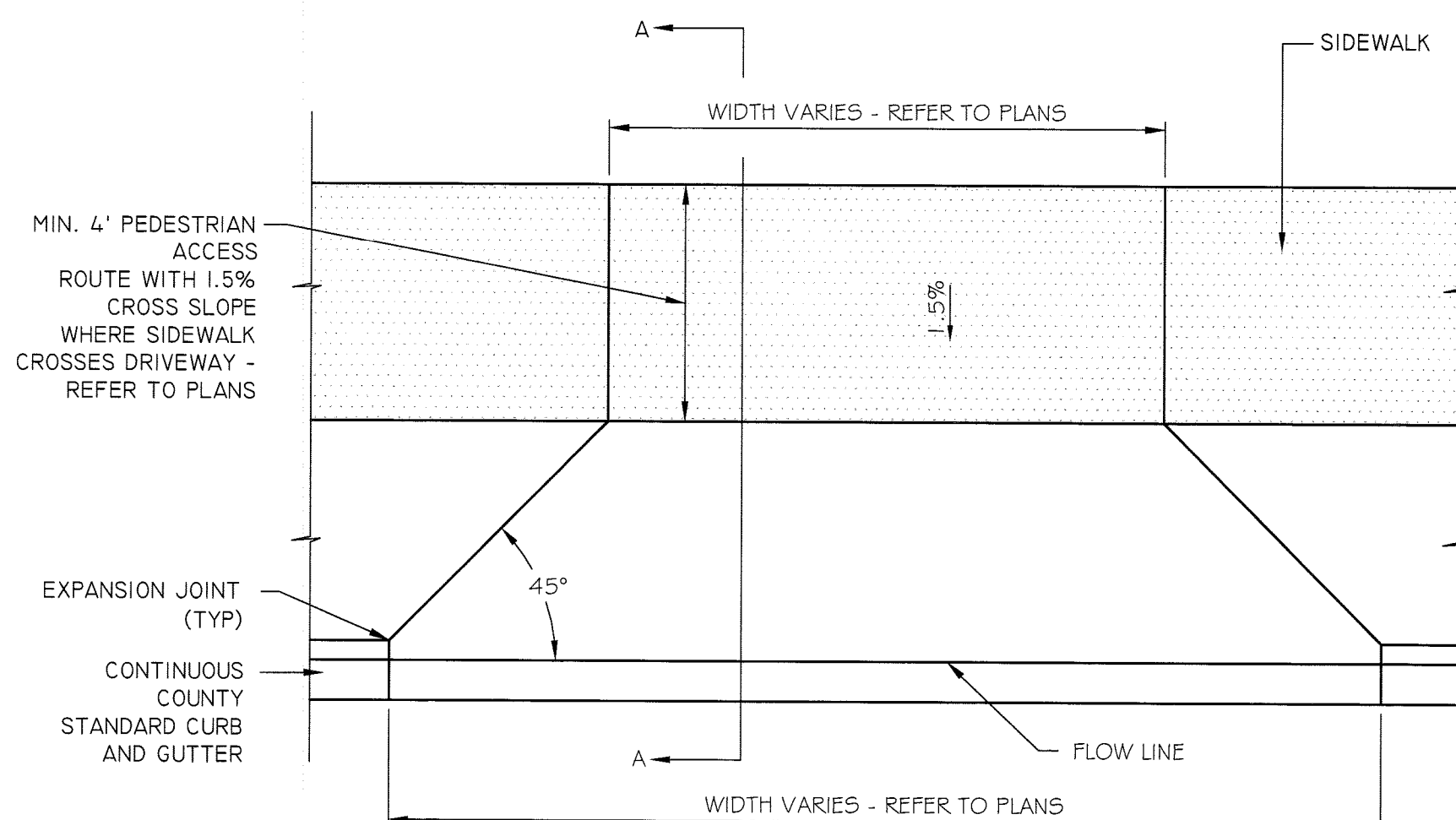




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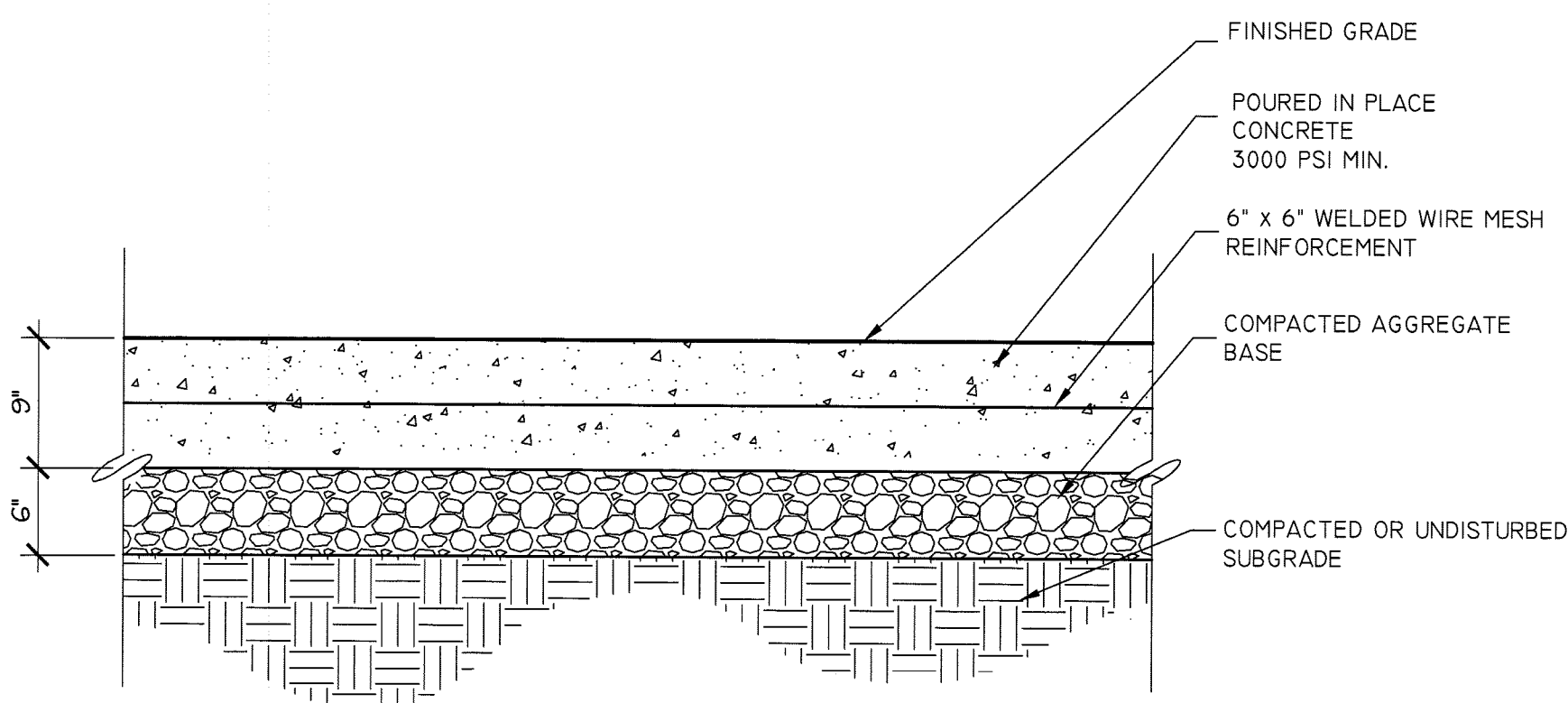
1. PROVIDE EXPANSION JOINTS EVERY 20' O.C. (UNLESS OTHERWISE SHOWN) AND AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, EXISTING PAVEMENTS, ETC.
2. PROVIDE CONTROL JOINTS EVERY 5' O.C. OR AS SHOWN ON THE PLANS.
3. EXPANSION JOINTS SHALL BE SEALED WITH SEALANT. COLOR TO MATCH COLOR OF CONCRETE.
4. FINISH IN ACCORDANCE WITH VDOT 404.07, SIDEWALK FINISH.
5. DISTURBED LAWN AREAS ADJACENT TO CONCRETE PAVEMENT SHALL BE BACKFILLED AND SEEDDED AS DESCRIBED IN SPECIFICATIONS.

REINFORCED CONCRETE PAVEMENT (6" THICKNESS)
SCALE: NOT TO SCALE



NOTE:
DRIVEWAY ENTRANCE SHALL COMPLY WITH ARLINGTON COUNTY STANDARD H-3.1 AND ALL APPLICABLE CODES.

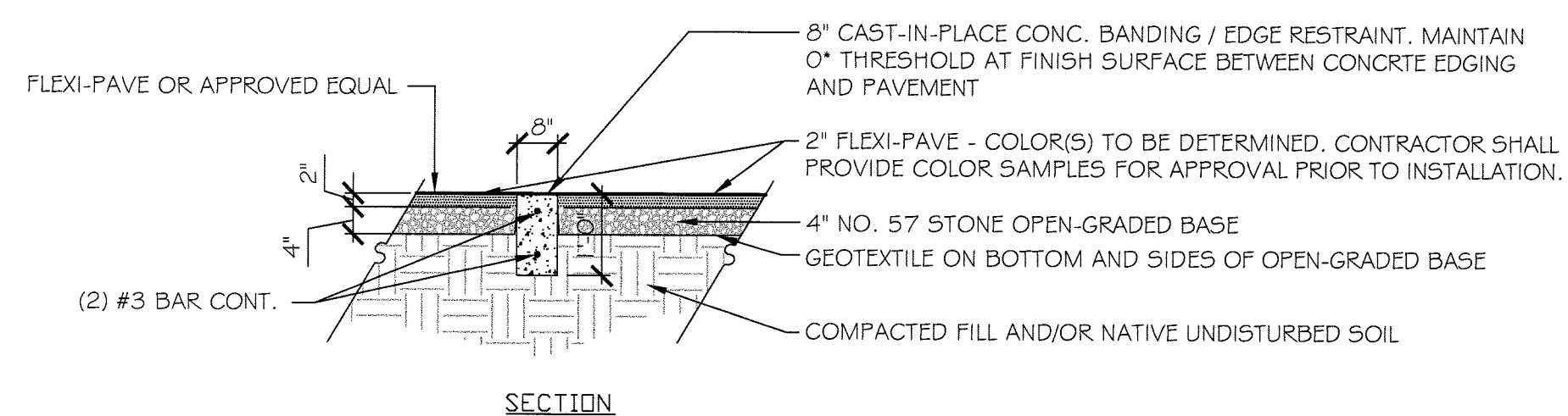
CONCRETE DRIVEWAY ENTRANCE
SCALE: NOT TO SCALE



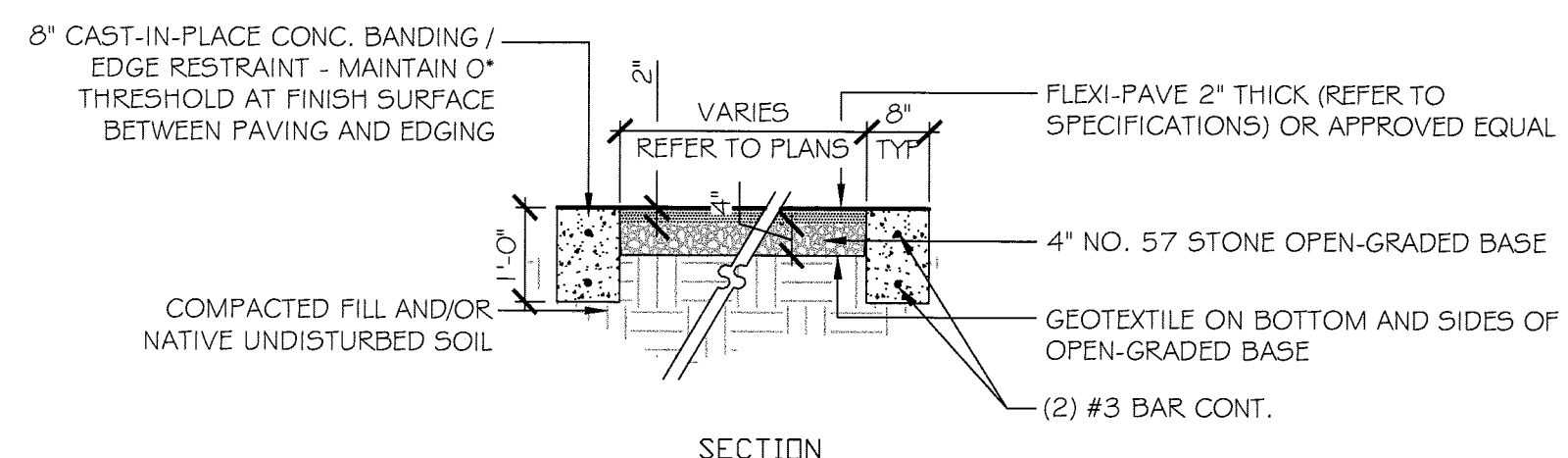
NOTES:

1. PROVIDE EXPANSION JOINTS AS SHOWN ON PLANS, 30' O.C. MAXIMUM AND WHERE NEW WORK JOINS EXISTING OR AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, ETC.
2. PROVIDE CONTROL JOINTS AS SHOWN ON PLANS, 10' O.C. MAXIMUM.

CONCRETE DRIVEWAY
SCALE: NOT TO SCALE

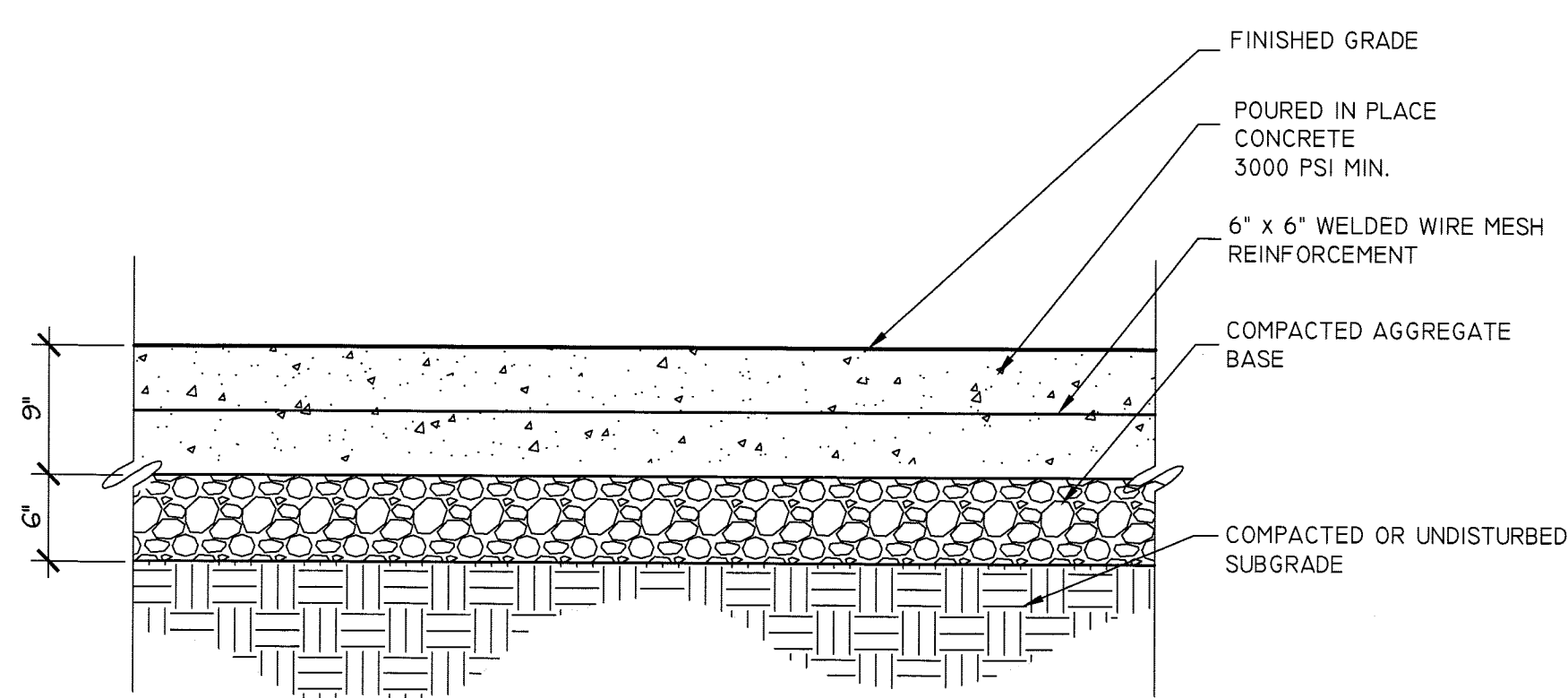


PERMEABLE PAVERS
SCALE: 1/2" = 1.0'



NOTE:
1. REFER TO TYPICAL SURFACING TRANSITION SECTION DETAIL, SHEET S-101, FOR EDGE RESTRAINT CONDITION WHEN EPIC SYSTEM IS BEING USED

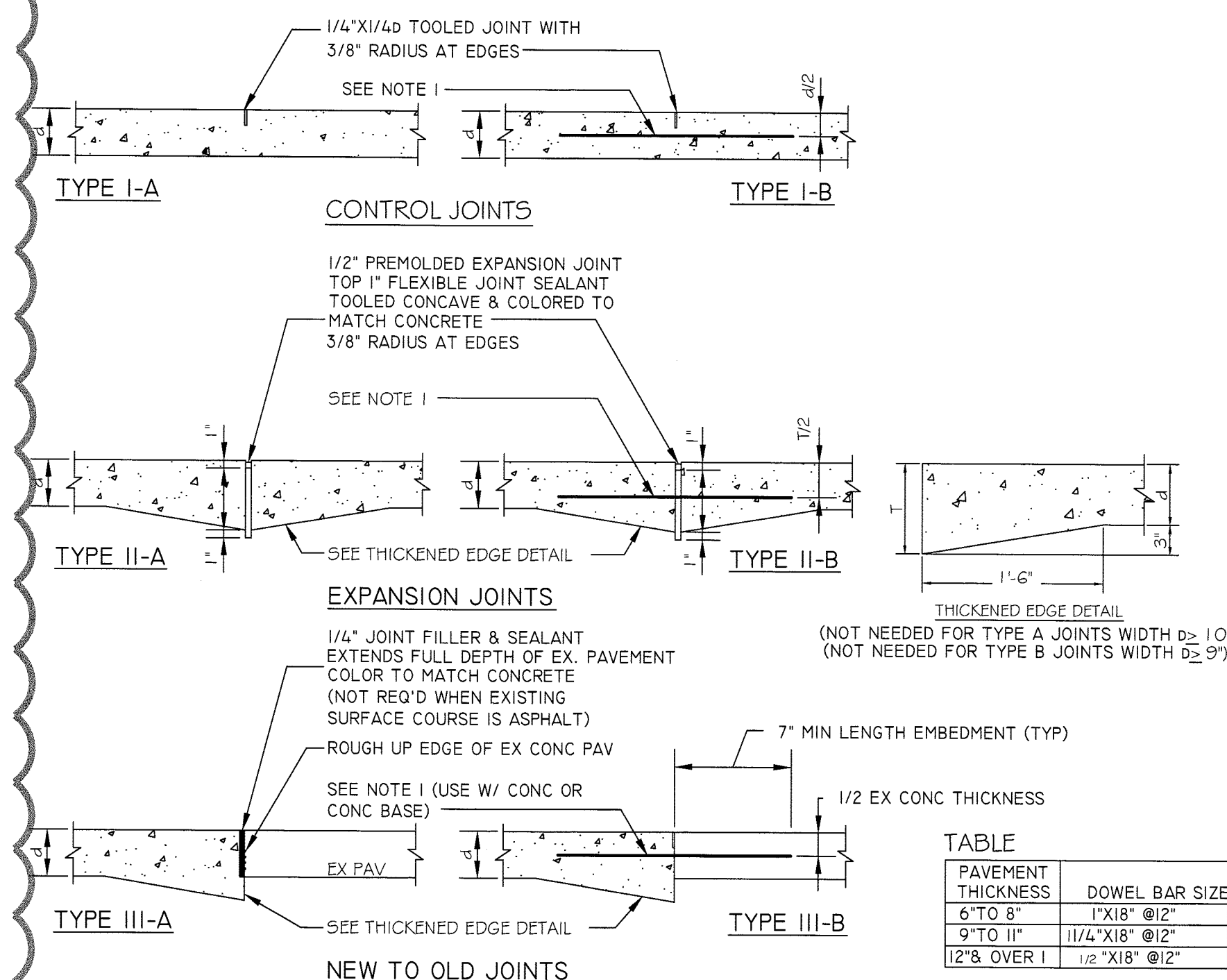
PERVIOUS PAVEMENT
SCALE: 1/2" = 1.0'



NOTES:

1. PROVIDE EXPANSION JOINTS AS SHOWN ON PLANS, 30' O.C. MAXIMUM AND WHERE NEW WORK JOINS EXISTING OR AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, ETC.
2. PROVIDE CONTROL JOINTS AS SHOWN ON PLANS, 10' O.C. MAXIMUM.

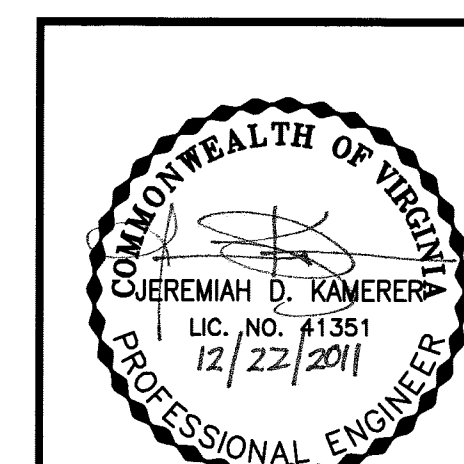
CONCRETE DRIVEWAY
SCALE: NOT TO SCALE



NOTES:

1. WHERE REQUIRED AT TRANSVERSE JOINTS, DOWEL BARS SHALL BE SIZED AS SHOWN IN THE TABLE. SMOOTH ROUND GRADE 60 OR BETTER WITH ENDS WRAPPED IN TAR PAPER.
2. TRANSVERSE JOINT SPACE SHALL NOT EXCEED SPACING INDICATED IN PLANS. THE AREA OF THE PAVEMENT PANEL SHALL NOT EXCEED 225 SQUARE FEET.
3. JOINT OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1'-6" LONG.
4. JOINT INTERSECTION ANGLES OF LESS THAN 60 DEGREES SHALL BE USED.
5. WHEN A JOINT IS CLOSER THAN 1'-0" TO A CASTING, THEN A MINOR ADJUSTMENT IN THE JOINT LOCATION SHOULD BE MADE BY SKEWING OR SHIFTING THE JOINT ALIGNMENT TO MEET THE CASTING AT 90° OR NORMAL TO THE CASTING.
6. DOWEL BARS SHALL NOT BE PLACED WITHIN 1'-0" OF THE EDGE OF PAVEMENT OR A PARALLEL JOINT.

CONCRETE PAVING JOINT DETAILS
SCALE: NOT TO SCALE



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

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IFB # 670-12

Project Name and Location

13th and Herndon Park Improvements

1299 N. HERNDON ST.
CLARENDON, VA 22201

Sheet Title

CIVIL DETAIL SHEET



William H. Gordon Associates, Inc.
Engineers, Land Planners, Landscape Architects, Surveyors
4501 DALY DRIVE, CHANTILLY, VIRGINIA 20151
Phone: 703.263.1900 Fax: 703.263.0766

Approvals Date

Dinesh Tiswani 1/25/12
Department Director
A. D. K. 1/25/12
Park Development Division Chief
P. S. M. 1/20/12
Design Unit Supervisor

Revisions Date

PRCR REVIEW 12/22/2011

Designed: C. ELDER
Drawn: C. ELDER
Checked: R. WALKER

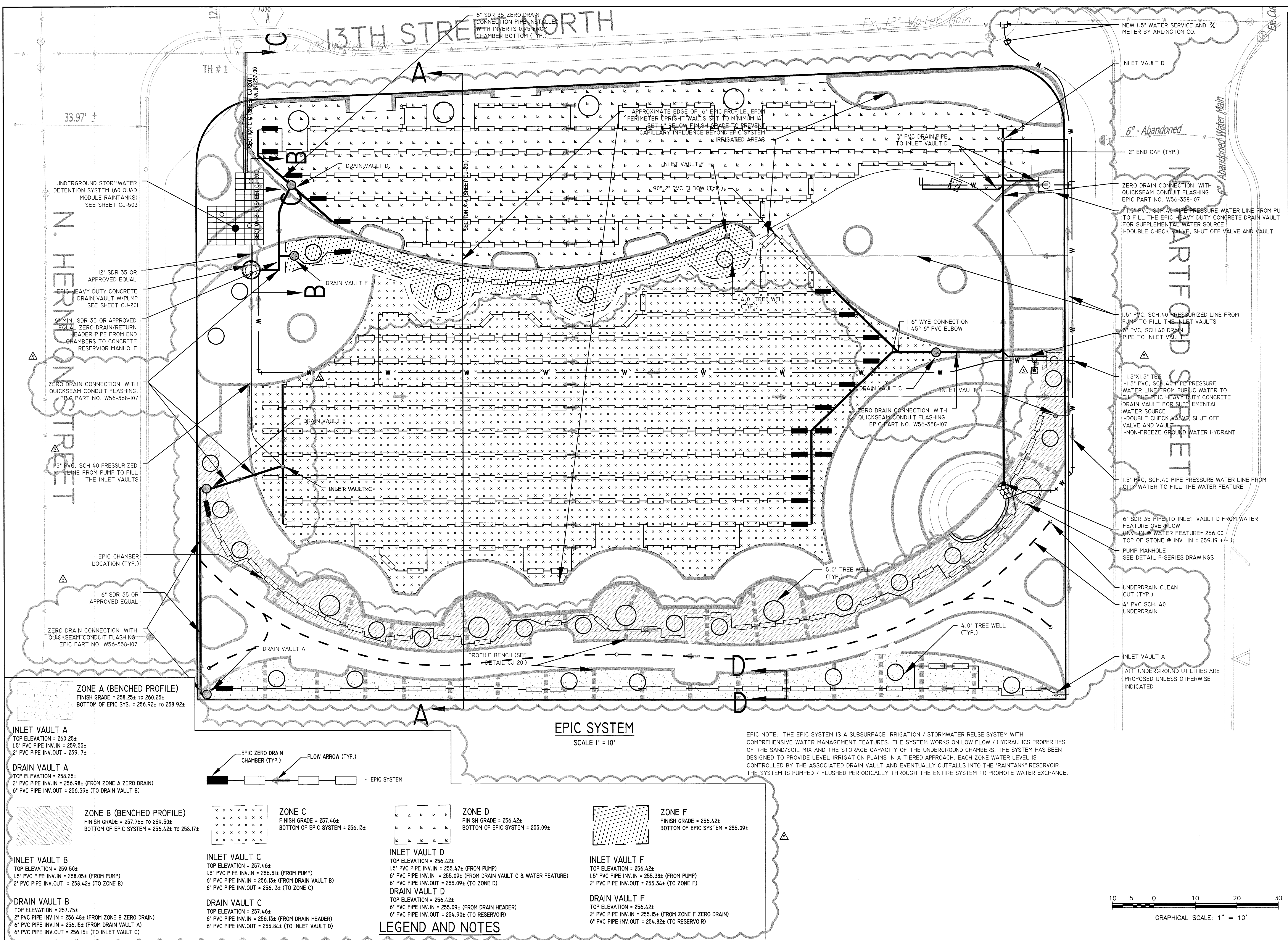
Filename: CU-501-2789-0601.dwg
Plotted: Jan 04, 2012

Scale: Value
Date: 22 DEC, 2011

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

13th & HERNDON PARK IMPROVEMENTS / ARLINGTON COUNTY PROJECT
BY-RIGHT CIVIL DETAIL SHEET

SCALE: 1"=25'	DESIGNED: C.ELDER	C.ELDER	CHECKED: R.WALKER
SUBMITTED DATE: 22 DEC, 2011	APPROVED DATE:	APPROVED DATE:	APPROVED DATE:
APPROVED DATE:	CHIEF TRANSP. PLANNING BUREAU	CHIEF TRANSP. ENGINEERING BUREAU	APPROVED DATE:
CHIEF WATER, SEWER, & STR. BUREAU	CHIEF ENGINEERING BUREAU	DIRECTOR OF ENV. SERVICES	
SHEET CU-501			CONTRACT H- SHEET 8A OF 39



ZONE A (BENCHED PROFILE)
 FINISH GRADE = 258.25± TO 260.25±
 BOTTOM OF EPIC SYS. = 256.92± TO 258.92±

INLET VAULT A
 TOP ELEVATION = 260.25±
 1.5" PVC PIPE INV. IN = 259.55±
 2" PVC PIPE INV. OUT = 259.17±

DRAIN VAULT A
 TOP ELEVATION = 258.25±
 2" PVC PIPE INV. IN = 256.98± (FROM ZONE A ZERO DRAIN)
 6" PVC PIPE INV. OUT = 256.59± (TO DRAIN VAULT B)

ZONE B (BENCHED PROFILE)
 FINISH GRADE = 257.75± TO 259.50±
 BOTTOM OF EPIC SYSTEM = 256.42± TO 258.17±

INLET VAULT B
 TOP ELEVATION = 259.50±
 1.5" PVC PIPE INV. IN = 258.05± (FROM PUMP)
 2" PVC PIPE INV. OUT = 258.42± (TO ZONE B)

DRAIN VAULT B
 TOP ELEVATION = 257.75±
 2" PVC PIPE INV. IN = 256.48± (FROM ZONE B ZERO DRAIN)
 6" PVC PIPE INV. IN = 256.15± (FROM DRAIN VAULT A)
 6" PVC PIPE INV. OUT = 256.15± (TO INLET VAULT C)

ZONE C (BENCHED PROFILE)
 FINISH GRADE = 257.46±
 BOTTOM OF EPIC SYSTEM = 256.13±

INLET VAULT C
 TOP ELEVATION = 257.46±
 1.5" PVC PIPE INV. IN = 256.51± (FROM PUMP)
 6" PVC PIPE INV. IN = 256.13± (FROM DRAIN VAULT B)
 6" PVC PIPE INV. OUT = 256.13± (TO ZONE C)

DRAIN VAULT C
 TOP ELEVATION = 257.46±
 6" PVC PIPE INV. IN = 256.13± (FROM DRAIN HEADER)
 6" PVC PIPE INV. OUT = 255.84± (TO INLET VAULT D)

ZONE D (BENCHED PROFILE)
 FINISH GRADE = 256.42±
 BOTTOM OF EPIC SYSTEM = 255.09±

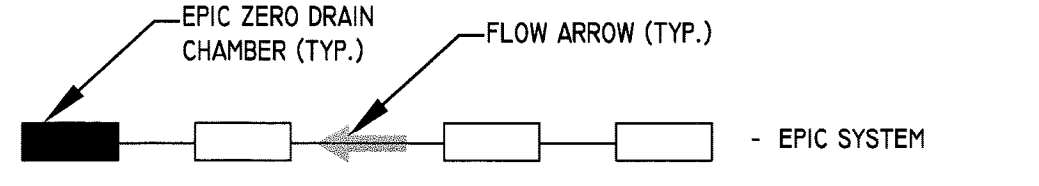
INLET VAULT D
 TOP ELEVATION = 256.42±
 1.5" PVC PIPE INV. IN = 255.47± (FROM PUMP)
 6" PVC PIPE INV. IN = 255.09± (FROM DRAIN VAULT C & WATER FEATURE)
 6" PVC PIPE INV. OUT = 255.09± (TO ZONE D)

DRAIN VAULT D
 TOP ELEVATION = 256.42±
 6" PVC PIPE INV. IN = 255.09± (FROM DRAIN HEADER)
 6" PVC PIPE INV. OUT = 254.90± (TO RESERVOIR)

ZONE E (BENCHED PROFILE)
 FINISH GRADE = 256.42±
 BOTTOM OF EPIC SYSTEM = 255.09±

INLET VAULT F
 TOP ELEVATION = 256.42±
 1.5" PVC PIPE INV. IN = 255.38± (FROM PUMP)
 2" PVC PIPE INV. OUT = 255.34± (TO ZONE F)

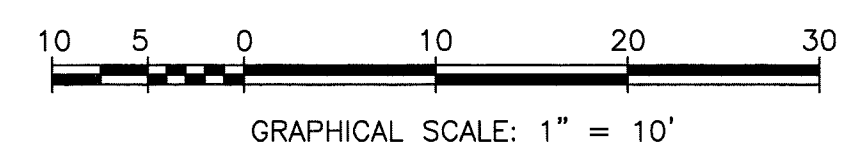
DRAIN VAULT F
 TOP ELEVATION = 256.42±
 2" PVC PIPE INV. IN = 255.15± (FROM ZONE F ZERO DRAIN)
 6" PVC PIPE INV. OUT = 254.82± (TO RESERVOIR)



LEGEND AND NOTES

EPIC SYSTEM
 SCALE 1" = 10'

EPIC NOTE: THE EPIC SYSTEM IS A SUBSURFACE IRRIGATION / STORMWATER REUSE SYSTEM WITH COMPREHENSIVE WATER MANAGEMENT FEATURES. THE SYSTEM WORKS ON LOW FLOW / HYDRAULICS PROPERTIES OF THE SAND/SOIL MIX AND THE STORAGE CAPACITY OF THE UNDERGROUND CHAMBERS. THE SYSTEM HAS BEEN DESIGNED TO PROVIDE LEVEL IRRIGATION PLAINS IN A TIERED APPROACH. EACH ZONE WATER LEVEL IS CONTROLLED BY THE ASSOCIATED DRAIN VAULT AND EVENTUALLY OUTFALLS INTO THE "RAINTANK" RESERVOIR. THE SYSTEM IS PUMPED / FLUSHED PERIODICALLY THROUGH THE ENTIRE SYSTEM TO PROMOTE WATER EXCHANGE.



ARLINGTON VIRGINIA
 DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES
 Park Development Division
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Project Name and Location
13th and Herndon Park Improvements

1299 N. HERNDON ST. CLARENDON, VA 22201

Sheet Title
PASSIVE SUBSURFACE IRRIGATION LAYOUT
ICAA
 William H. Gordon Associates, Inc.
 Engineers, Land Planners, Landscape Architects, Surveyors
 4501 DAILY DRIVE, CHANTILLY, VIRGINIA 20151
 Phone: 703.963.1909 Fax: 703.963.0766

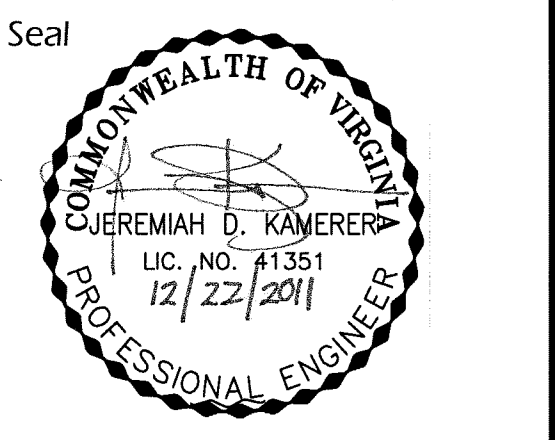
Approvals Date
 Dineen Tiswani 11/25/12
 Department Director
 J. D. D... 1/25/12
 Park Development Division Chief
 P. ... 1/20/12
 Design Unit Supervisor

Revisions Date
 PRCR REVIEW 12/22/2011

Designed: F. LUO
 Drawn: F. LUO
 Checked: R. WALKER

Filename: CJ-101-2789-0601.dwg
 Plotted: Jan 04, 2012

Scale: 1" = 10'
 Date: 22 DEC, 2011



Sheet 09 of 39

CJ-101

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES
13th & HERNDON PARK IMPROVEMENTS / ARLINGTON COUNTY PROJECT BY-RIGHT

PASSIVE SUBSURFACE SYSTEM ELEVATIONS

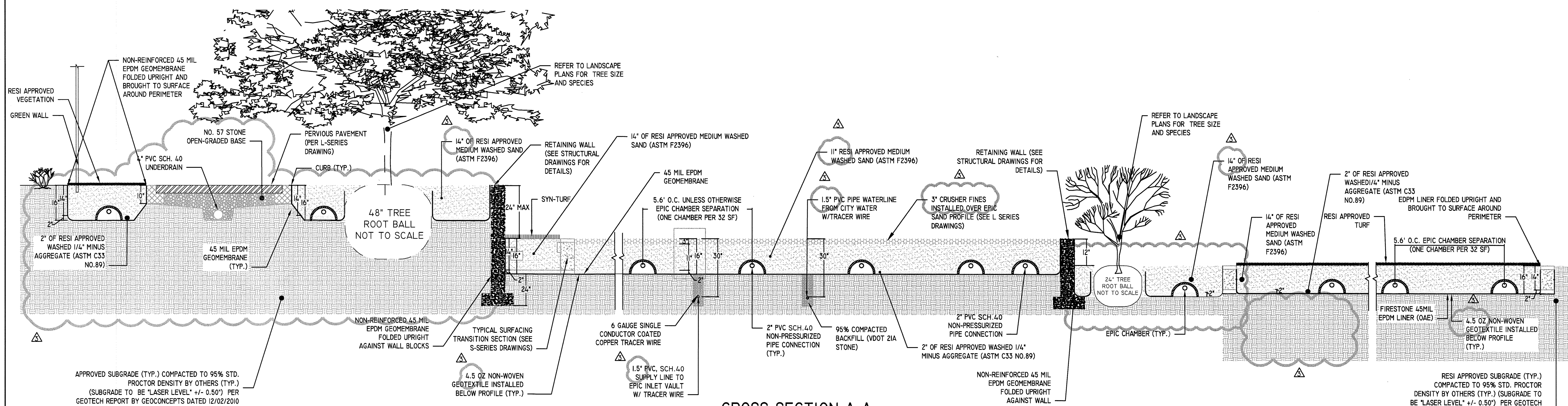
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SUBMITTED DATE: 22 DEC, 2011 APPROVED DATE: APPROVED DATE:

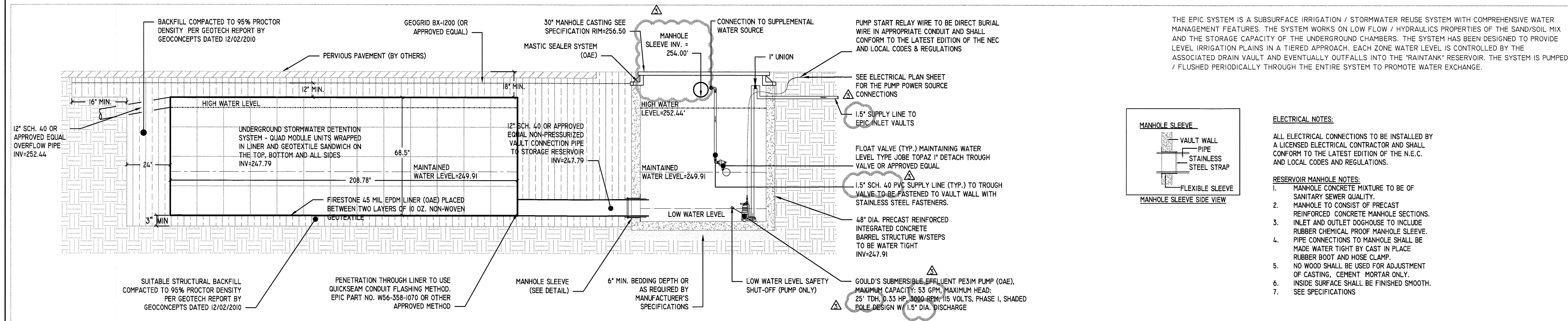
APPROVED DATE: APPROVED DATE: APPROVED DATE:

CHIEF WATER, SEWER, & STR. BUREAU CHIEF ENGINEERING BUREAU DIRECTOR OF ENV. SERVICES

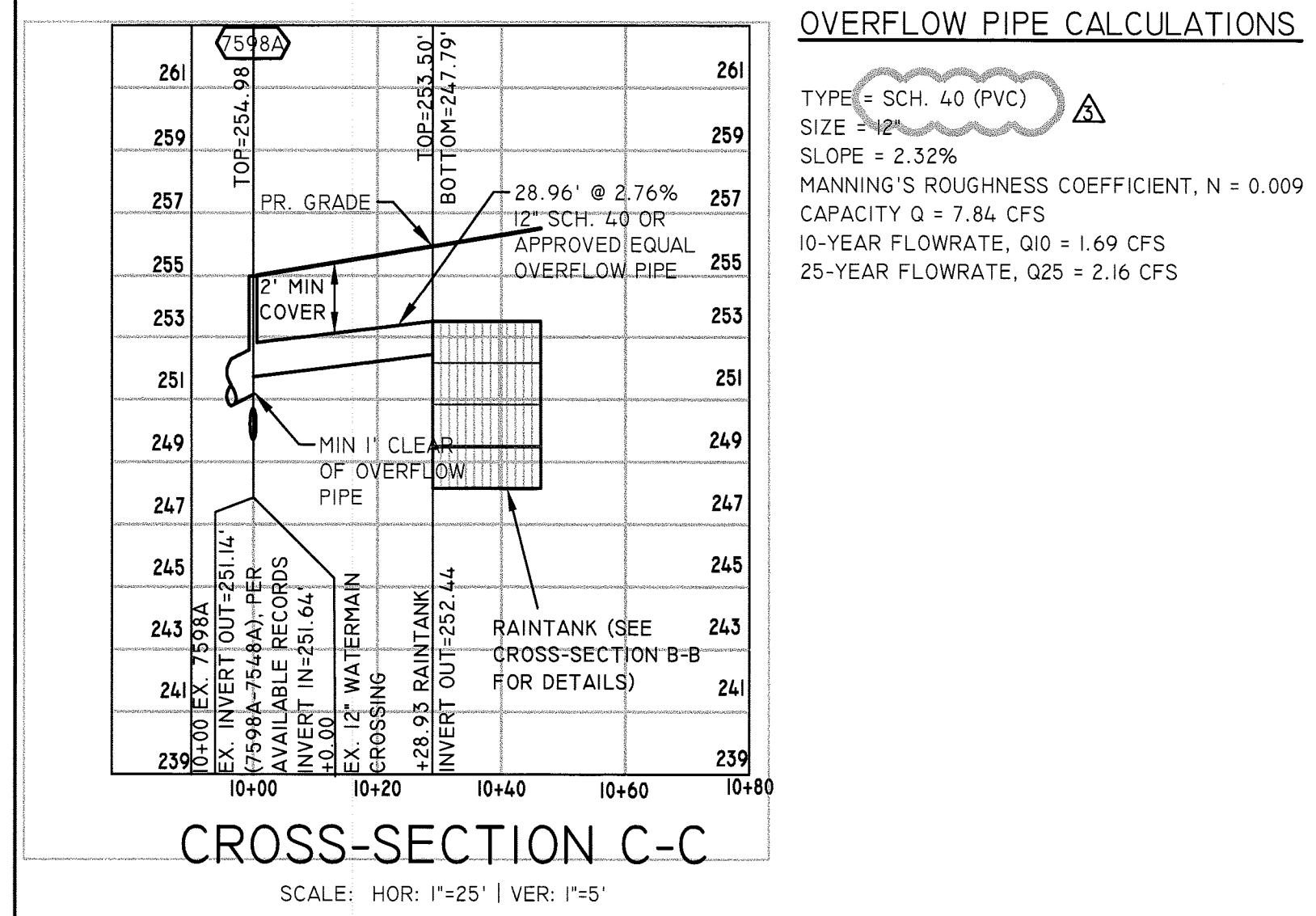
SHEET CJ-201 CONTRACT I- SHEET 10 OF 39



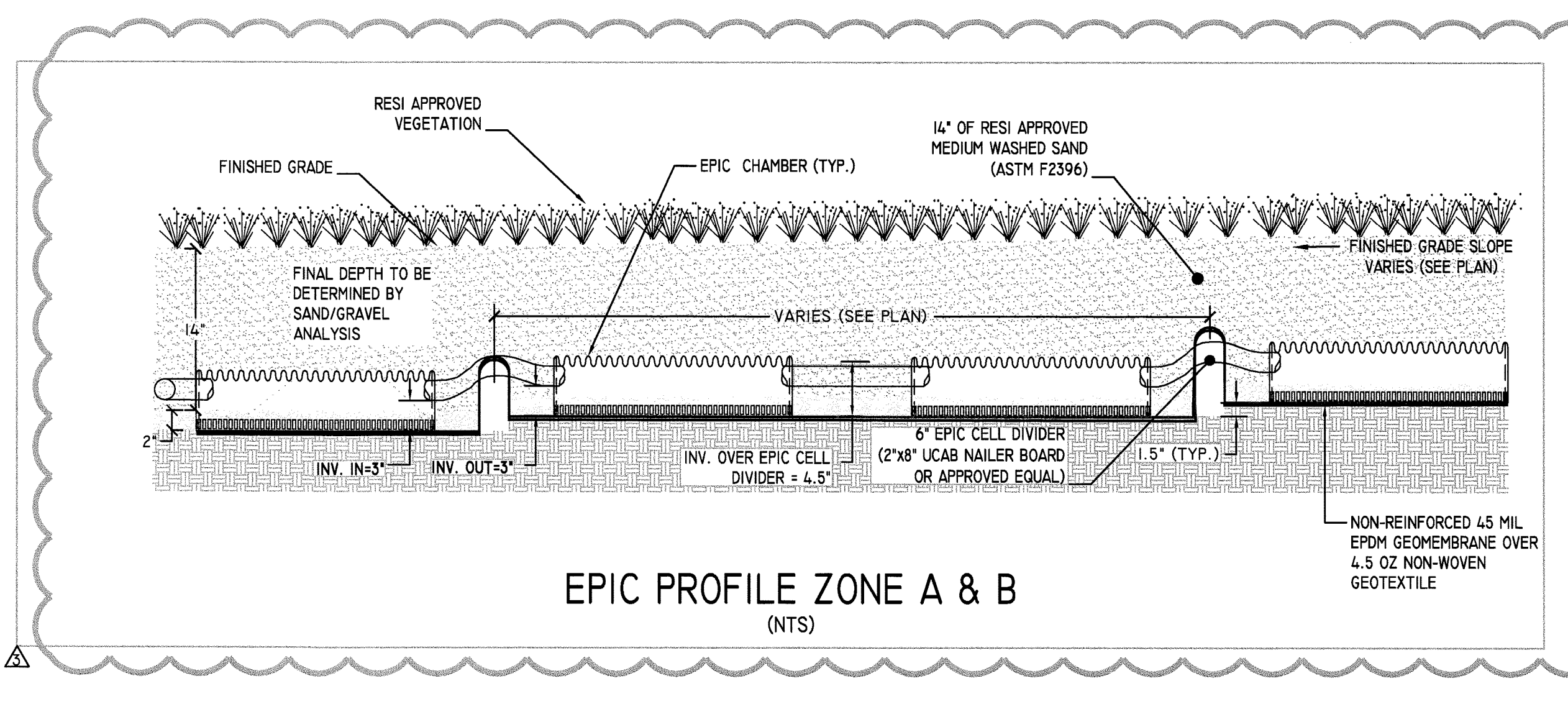
CROSS-SECTION A-A
(NTS)



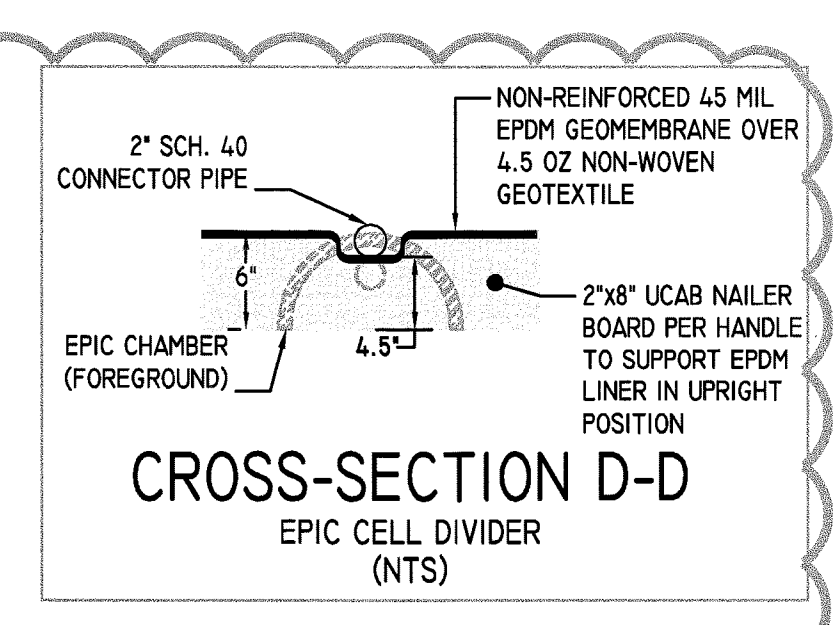
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(NTS)



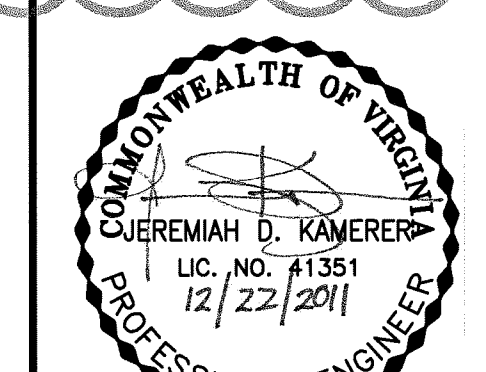
CROSS-SECTION C-C
SCALE: HOR: 1"=25' | VER: 1"=5'



EPIC PROFILE ZONE A & B
(NTS)



CROSS-SECTION D-D
EPIC CELL DIVIDER
(NTS)



Arlington County Chesapeake Bay Preservation Ordinance Stormwater Requirements Worksheet

Step 1. Enter site characteristics and determine impact area

Total Site Area	32631	%	
Existing Impervious Cover	0	0.0%	
Proposed Impervious Cover	1950	6.0%	
Average Land Cover condition	5221	16.0%	
90% of Existing Impervious Cover	0	0.0%	
Impact area (sf)			0
pre<=avg; post<=avg	Yes		None
pre<=avg; post>avg	No		--
pre>avg; post>avg	No		--
Total Impact Area			0
Impact area > 50% of total impervious area?			No
Impact Area Requirement			0
Maximum Watershed Management Fund fee	\$ 2.50	\$	-

Arlington County
Chesapeake Bay Preservation Ordinance
Stormwater Requirements
Worksheet

Applicant:

Step 2. Determine onsite stormwater treatment requirements

Vehicle-related pavement	Area (sf)		
Vehicle-related pavement required to be treated	0		
Required min. treatment efficiency	50%		
Treatment credit needed	0	Not to exceed Impact Area Requirement	
Onsite vehicle-related pavement treated	Impervious area treated (sf)	Treatment efficiency	Treatment Credit (sf)
BMP type	(A)	(B)	(A X B)
	0	0%	0
	0	0%	0
Total onsite stormwater treatment credits			0
Treatment efficiency is <50% Approval of County Manager required.			
Step 3. Additional treatment	Impervious area treated (sf)	Treatment efficiency	Treatment Credit (sf)
BMP type	(A)	(B)	(A X B)
	0	0%	0
	0	0%	0
Total additional treatment credits			0

If you are requesting an administrative exception for any of the circumstances described in Section 4.2 of the Interim Guidance Manual, note circumstance here and attach any supporting documentation:

Is onsite treatment requirement met? **YES**

Step 4. Determine compliance

Impact area	Area (sf)	0
Total treatment credits	0	
Remaining impact area	0	
Total Watershed Management Fund fee	\$ -	

NOTE: THE IMPERVIOUS AREA CONSISTS OF THE ONSITE EXISTING AND PROPOSED CONCRETE SIDEWALK AROUND THE PERIMETER OF THE PROPERTY FOR PUBLIC SIDEWALKS.

BMP NARRATIVE

PER CHESAPEAKE BAY PRESERVATION ORDINANCE 61.0(F)(1)(A) AND GUIDELINE MANUAL TO THE CHESAPEAKE BAY PRESERVATION ORDINANCE 4.1 IF BOTH PRE-AND POST DEVELOPMENT IMPERVIOUS COVER ARE LESS THAN OR EQUAL TO 16%, THERE ARE NO POLLUTANT REMOVAL REQUIREMENTS FOR THE SITE. THEREFORE, WATER QUALITY CONTROL IS NOT REQUIRED FOR THIS PROJECT.

AN ADMINISTRATIVE EXCEPTION OF SECTION 4.2 OF THE ARLINGTON COUNTY CHESAPEAKE BAY ORDINANCE FOR ON SITE TREATMENT IS REQUESTED UNDER SECTION 61-16. THE TOTAL ON-SITE VEHICLE PAVEMENT AREA IS 0 SQUARE FEET WHICH IS BELOW THE 2,000 SQUARE FEET.

△ DUE TO THE NATURE OF THE SUBSURFACE PASSIVE IRRIGATION SYSTEM OVER 75% OF THE ONSITE AREA WILL INFILTRATE THROUGH THE SURFACE TREATMENTS (PERVIOUS PAVEMENT, CRUSHER FINES, MANICURED LAWN, DECKING, PLANTING, ETC.) AND WILL CIRCULATE BENEATH THE SURFACE. THE SUBSURFACE PASSIVE IRRIGATION SYSTEM RETAINS STORMWATER THAT WILL BE REUSED BY THE PLANT MEDIA. THE RESERVOIR PROVIDES APPROXIMATELY 6,600 GAL. (888 CF) OF ADDITIONAL STORAGE.

THE EPIC SYSTEM IS A SUB SURFACE IRRIGATION / STORMWATER REUSE SYSTEM WITH COMPREHENSIVE WATER MANAGEMENT FEATURES. THE SYSTEM WORKS ON LOW FLOW / HYDRAULICS PROPERTIES OF THE SAND/SOIL MIX AND THE STORAGE CAPACITY OF THE UNDERGROUND CHAMBERS. THE SYSTEM HAS BEEN DESIGNED TO PROVIDE LEVEL IRRIGATION PLAINS IN A TIERED APPROACH. EACH ZONE WATER LEVEL IS CONTROLLED BY THE ASSOCIATED DRAIN VAULT AND EVENTUALLY OUTFALLS INTO THE "RAINTANK" RESERVOIR. THE SYSTEM IS PUMPED / FLUSHED PERIODICALLY THROUGH THE ENTIRE SYSTEM TO PROMOTE WATER EXCHANGE.

AS THE STORMWATER IS RECIRCULATED THROUGHOUT THE PROJECT, THE ENTIRE SITE ACTS AS AN IRRIGATION / REUSE SYSTEM. BASED ON LOCAL RAINFALL DATA, A WATER BUDGET WAS CALCULATED AND DETERMINED THE WATER DEMAND (IRRIGATION) IS GREATER THAN THE 10-YR STORAGE VOLUME. THEREFORE, THE NET RELEASE OF THE 10-YR STORM EVENT WILL BE 0.0 CFS. ADDITIONAL STORAGE VOLUME IS BEING PROVIDED TO ACCOUNT FOR ADDITIONAL IRRIGATION NEEDS. IN THE EVENT THERE ARE MULTIPLE STORM EVENTS, THE 12" OVERFLOW PIPE WILL ACT AS A CONTROL STRUCTURE AND THE 12" OVERFLOW PIPE HAS SUFFICIENT CAPACITY TO PASS THE 10-YR STORM EVENT (SEE SHEET CJ-201).

ARLINGTON COUNTY STORMWATER DETENTION CALCULATION

1. SITE DESCRIPTION

LOCATION:	POTOMAC WATERSHED
TOTAL SITE AREA A =	32631 SF OR 0.7491 AC
IMPERVIOUS AREA A _{imp} =	1950 SF OR 0.0448 AC
COMPOSITE C =	0.336
T _c =	5 MIN
I ₁₀ =	7.30 IN/HR
I ₁₀₀ =	10.00 IN/HR

2. PREDEVELOPMENT RUNOFF

C =	0.20 (SPECIFIED BY ORDINANCE)
Q ₁₀ =	1.09 CFS

3. UNDETAINED FLOW

UNDETAINED AREA A =	912 SF OR 0.0209 AC
C =	0.90
Q ₁₀ =	0.14 CFS

4. ALLOWABLE RELEASE RATE

ALLOWABLE Q ₁₀ =	PRE Q ₁₀ - UNDETAINED Q ₁₀
ALLOWABLE Q ₁₀ =	0.96 CFS

5. STORAGE VOLUME REQUIRED

DETAINED AREA A =	3179 SF OR 0.7282 AC
DETAINED IMPERVIOUS AREA A _{imp} =	1058 SF OR 0.0238 AC
COMPOSITE C =	0.320
TOTAL A*C =	0.233 AC

TIME (MIN)	TIME (SEC)	I ₁₀ (CFS)	IMP AC (A*C)	Q ₁₀ (CFS)	VOL. (CF)	DISCHARGE (CFS)	VOL. (CF)	STORAGE (CF)
5	300	7.30	0.233	1.701	510	0.96	287	223
10	600	5.90	0.233	1.375	825	0.96	574	251
15	900	5.10	0.233	1.188	1069	0.96	861	209
20	1200	4.50	0.233	1.049	1258	0.96	1147	111
25	1500	4.00	0.233	0.932	1398	0.96	1434	(36)
30	1800	3.71	0.233	0.864	1556	0.96	1721	(165)
35	2100	3.35	0.233	0.781	1639	0.96	2008	(369)
40	2400	3.15	0.233	0.734	1761	0.96	2295	(533)
50	3000	2.73	0.233	0.636	1908	0.96	2868	(960)
60	3600	2.30	0.233	0.536	1929	0.96	3442	(1513)
90	5400	1.90	0.233	0.443	2391	0.96	5163	(2773)
120	7200	1.48	0.233	0.345	2483	0.96	6884	(4401)
180	10800	1.10	0.233	0.256	2768	0.96	10326	(7558)

STORAGE VOLUME REQUIRED = 251 CF

6. STORAGE VOLUME PROVIDED

STORAGE OF RESI-EPIC SYSTEM

TOTAL SURFACE AREA =	19218 SF
AVERAGE PONDING DEPTH =	4 IN
GRAVEL OR SAND VOID RATE =	0.4
STORAGE =	2562 CF

OR 19168 GALLONS

STORAGE OF RAIN-TANK SYSTEM

NUMBER OF RAIN-TANK =	60
MODULE =	QUAD
EFFECTIVE STORAGE OF EACH TANK =	14.8 CF
STORAGE OF RAIN-TANK =	888 CF

OR 6643 GALLONS

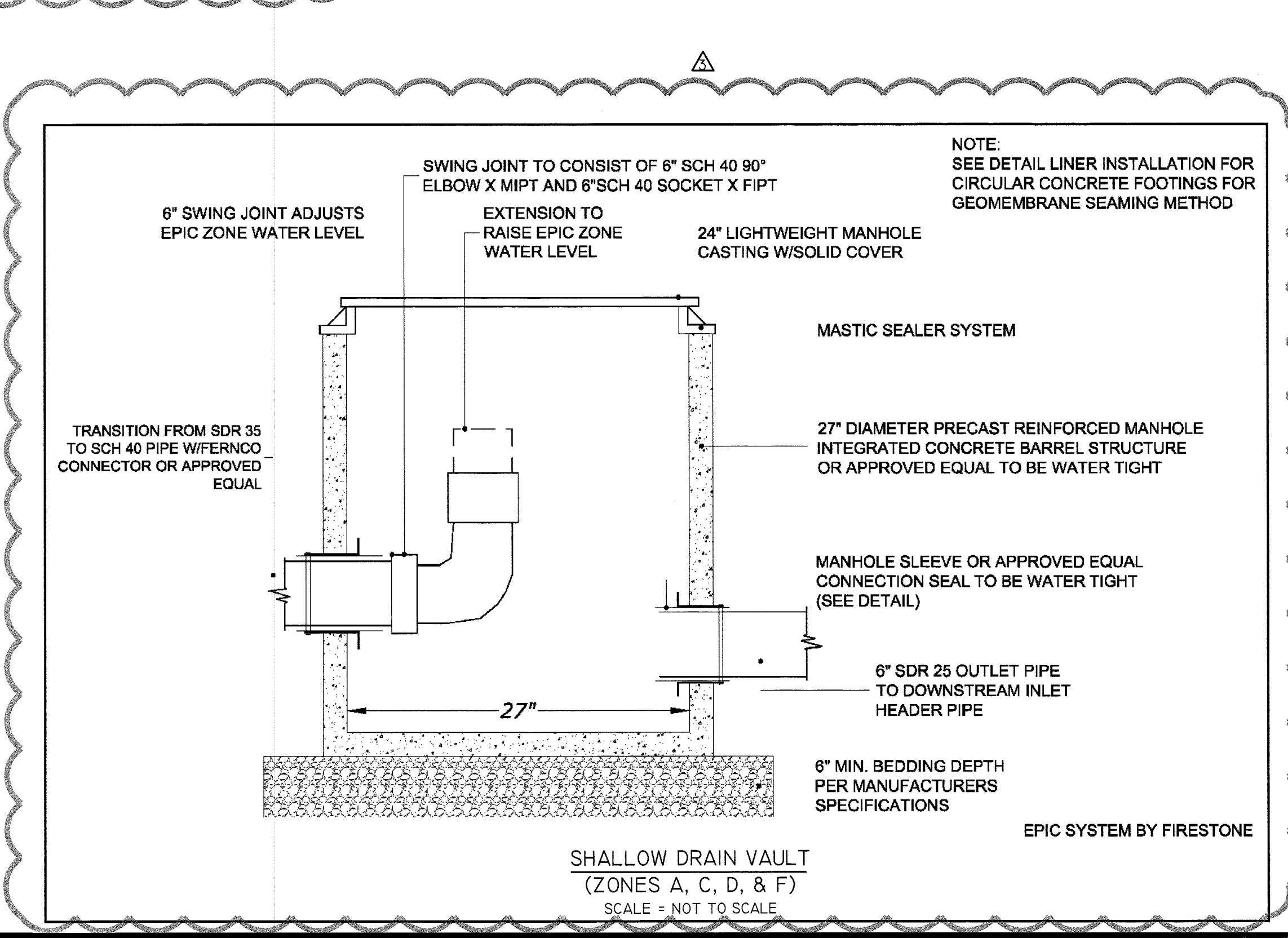
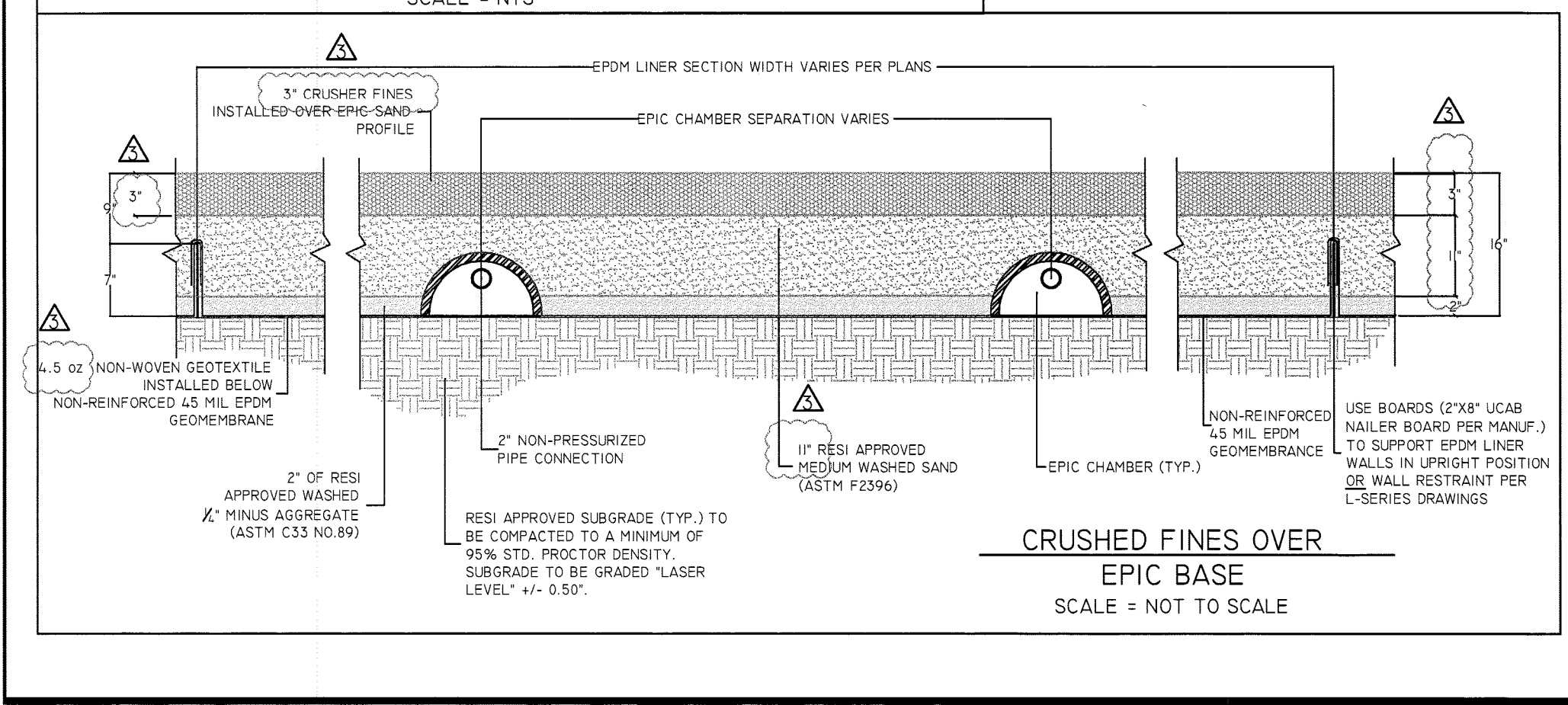
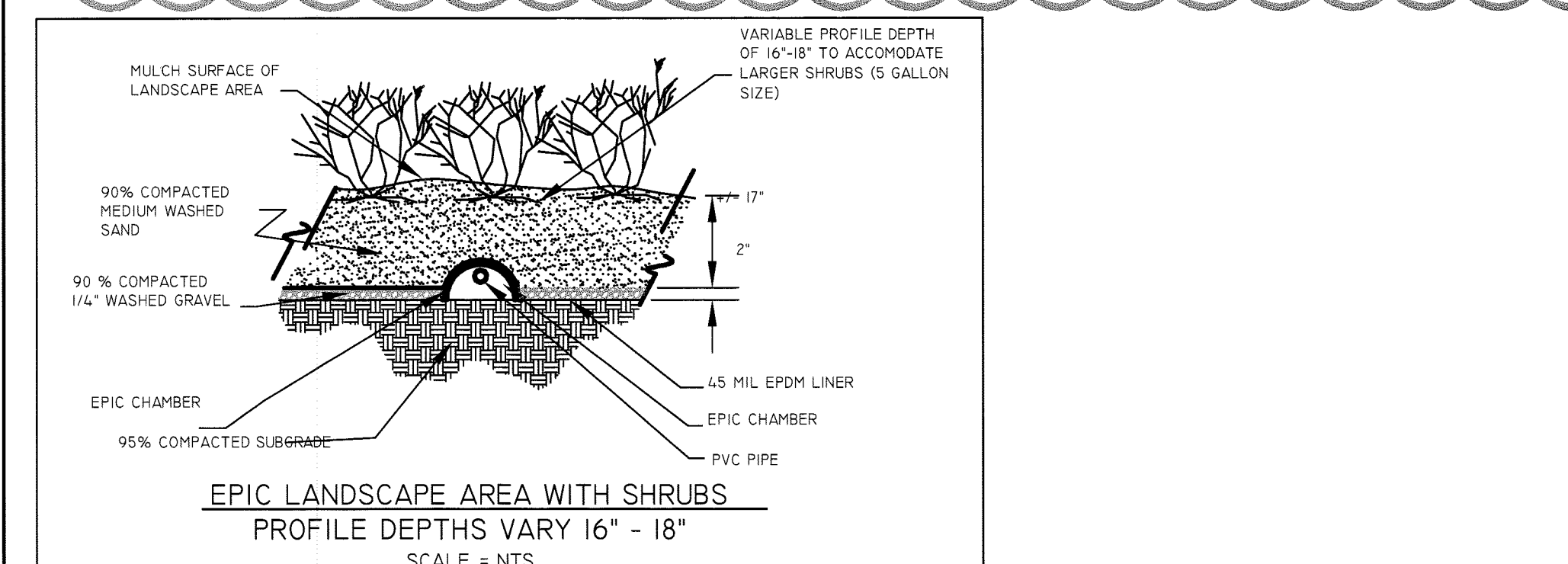
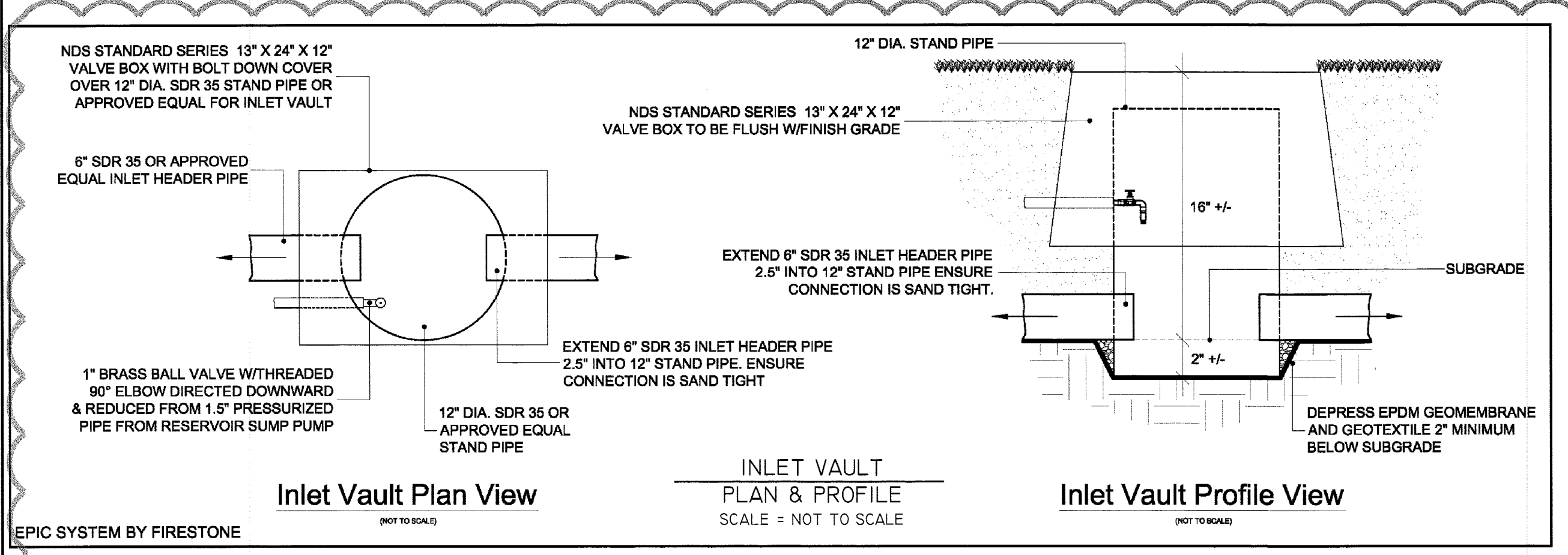
TOTAL STORAGE VOLUME PROVIDED = 3450 CF

OR 25811 GALLONS

7. DETAINED DISCHARGE

TIME (MIN)	TIME (SEC)	I ₁₀ (CFS)	IMP AC (A*C)	Q ₁₀ (CFS)	VOL. (CF)	STORAGE (CF)	DISCHARGE (CF)	DISCHARGE (CFS)
5	300	7.30	0.233	1.701	510	3450	(294.0)	0.00
10	600	5.90	0.233	1.375	825	3450	(2626)	0.00
15	900	5.10	0.233	1.188	1069	3450	(2381)	0.00
20	1200	4.50	0.233	1.049	1258	3450	(2192)	0.00
25	1500	4.00	0.233	0.932	1398	3450	(2052)	0.00
30	1800	3.71	0.233	0.864	1556	3450	(1894)	0.00
35	2100	3.35	0.233	0.781	1639	3450	(1811)	0.00
40	2400	3.15	0.233	0.734	1761	3450	(1689)	0.00
50	3000	2.73	0.233	0.636	1908	3450	(1542)	0.00
60	3600	2.30	0.233	0.536	1929	3450	(1521)	0.00
90	5400	1.90	0.233	0.443	2391	3450	(1060)	0.00
120	7200	1.48	0.233	0.345	2483	3450	(968)	0.00
180	10800	1.10	0.233	0.256	2768	3450	(682)	0.00

DETAINED DISCHARGE = 0.00 CFS < ALLOWABLE Q₁₀ = 0.96 CFS



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location
13th and Herndon Park Improvements

1299 N. HERNDON ST.
CLARENDON, VA 22201

Sheet Title
STORMWATER MANAGEMENT



William H. Gordon Associates, Inc.
Engineers - Land Planners - Landscape Architects - Surveyors
4501 DAILY DRIVE, CHANTILLY, VIRGINIA 20151
PHONE: 703.963.1100 - FAX: 703.963.1102

Approvals Date

Dinesh Tiwari 11/25/12
Department Director

J. Williams 1/25/12
Park Development Division Chief

P. Walker 1/20/12
Design Utility Supervisor

Revisions Date

PRCR REVIEW 12/22/2011

Designed: J. WILLIAMS
Drawn: J. WILLIAMS
Checked: R. WALKER

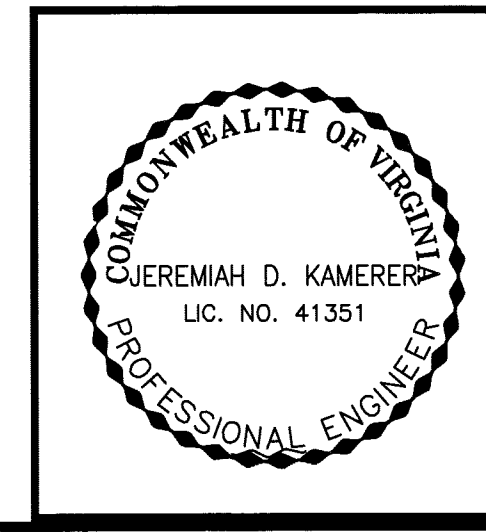
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Plotted: Jan 04, 2012

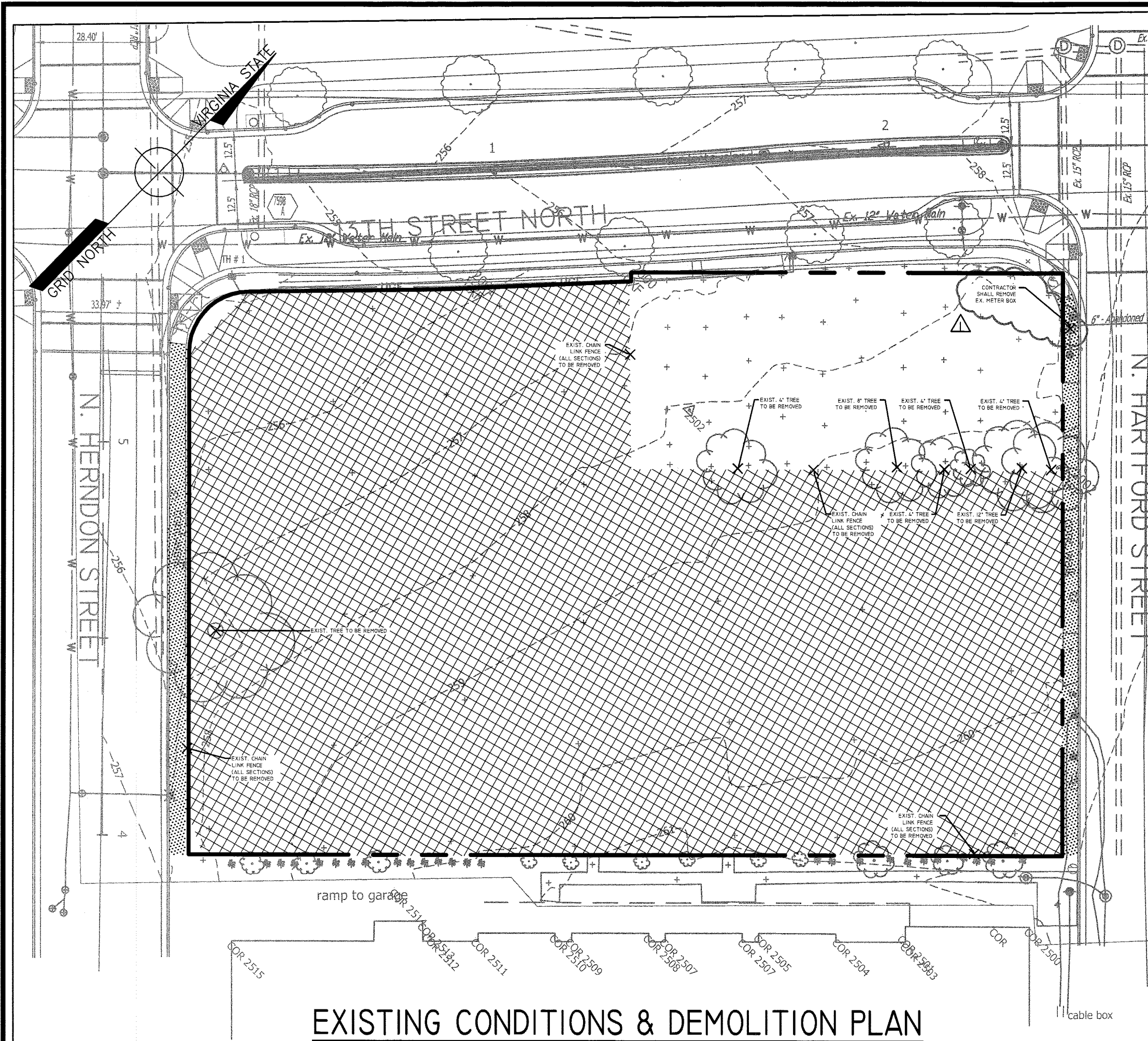
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ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

13th & HERNDON PARK IMPROVEMENTS / ARLINGTON COUNTY PROJECT BY-RIGHT STORMWATER MANAGEMENT

SCALE: 1"=25'	DESIGNED: J. WILLIAMS J. WILLIAMS	CHECKED: R. WALKER
SUBMITTED DATE: 22 DEC, 2011	APPROVED DATE: CHIEF TRANSP. PLANNING BUREAU	APPROVED DATE: CHIEF TRANSP. ENGINEERING BUREAU
APPROVED DATE: CHIEF WATER, SEWER, & STR. BUREAU	APPROVED DATE: CHIEF ENGINEERING BUREAU	APPROVED DATE: DIRECTOR OF ENV. SERVICES
SHEET CJ-501		CONTRACT H-SHEET 11 OF 39





EXISTING CONDITIONS & DEMOLITION PLAN

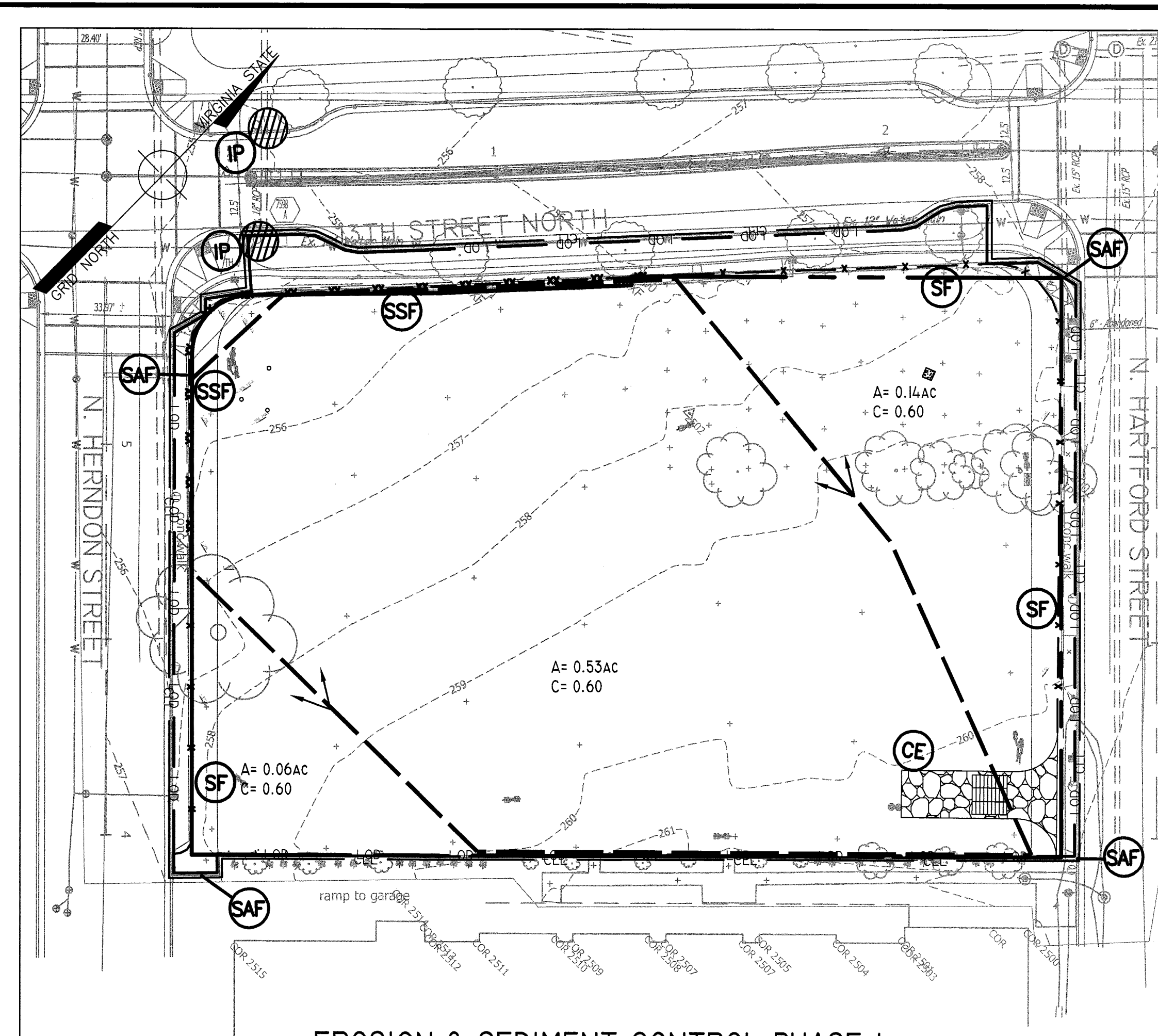
SCALE 1" = 25'

EXISTING CONDITIONS NOTES

1. THE PROPERTIES DELINEATED ON THIS PLAT ARE LOCATED ON ARLINGTON COUNTY ASSESSMENT MAP 053-03. REFERENCED AS RPC 15071007, 008, 015, 021, 022, 023, 024, 025, 027. PCA AND ARE ZONED C-3.
2. BOUNDARY INFORMATION IS BASED ON A FIELD SURVEY BY THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, ENGINEERING AND CAPITOL PROJECTS DIVISION, SURVEY SECTION.
3. TOPOGRAPHIC INFORMATION SHOWN HEREON COMPILED FROM FIELD RUN TOPOGRAPHY BY THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, ENGINEERING AND CAPITOL PROJECTS DIVISION, SURVEY SECTION.
4. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, SPOT ELEVATIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR PERFORMING THE WORK IN ACCORDANCE WITH SAME. ANY DISCREPANCIES IN CONTRACT DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT OFFICER OR CORRECTED AT CONTRACTOR'S EXPENSE.

REMOVAL NOTES

1. TREE PRESERVATION FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION OPERATIONS. REFER TO SHEET GC-501 FOR DETAILS.
2. CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
3. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT 811 IN VA OR 1-800-552-7001. A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION, TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
4. ANY STOCKPILING, REGARDLESS OF LOCATION ON SITE SHALL BE STABILIZED IMMEDIATELY AFTER ITS ESTABLISHMENT AND FOR THE DURATION OF THE PROJECT. STOCKPILES SHALL BE CONTAINED BY STRAW BALES OR EROSION CONTROL FENCING AND COVERED WITH PLASTIC OR CANVAS AT THE END OF EACH WORK DAY FOR THE DURATION OF THE PROJECT.
5. TEMPORARY CONSTRUCTION FENCING SHALL BE ERECTED AS SHOWN ON THE PLANS PRIOR TO BEGINNING CONSTRUCTION OPERATIONS AND MAINTAINED UNTIL COMPLETION OF CONSTRUCTION.
6. CONTRACTOR SHALL COMPLETELY AND LEGALLY REMOVE FROM SITE ALL OF EXISTING WOOD CHIP MULCH.
7. CONTRACTOR SHALL COMPLETELY AND LEGALLY REMOVE FROM SITE EXISTING CONCRETE WALK AS SHOWN ON PLANS. THE CONTRACTOR SHALL ENSURE THAT ALL SAW CUTTING OF PAVEMENTS AND SIDEWALKS SHALL BE DONE NEAT AND ACCURATELY.
8. CONTRACTOR SHALL REMOVE ALL MISC. DEBRIS (I.E. CONCRETE FORMS, BRICK PAVERS, ETC.) THAT ARE NOT REPRESENTED IN THE PLANS.
9. THE TEMPORARY CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATER COURSES.
10. UPON COMPLETION OF THE PROJECT, ALL EXCESS SOIL, TEMPORARY FENCING, EROSION CONTROL MEASURES, STABILIZATION MATERIALS, AND OTHER DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. ALL PAVED AREAS, WALLS, ETC. SHALL BE THOROUGHLY WASHED AND CLEANED UPON COMPLETION OF THE PROJECT.
11. CONTRACTOR IS RESPONSIBLE MATERIAL ENCOUNTERED TO PROJECT SUBGRADE. UNDERCUT OF UNSUITABLE SUBGRADE TO BE DONE ACCORDING TO UNIT PRICING.



EROSION & SEDIMENT CONTROL PHASE I

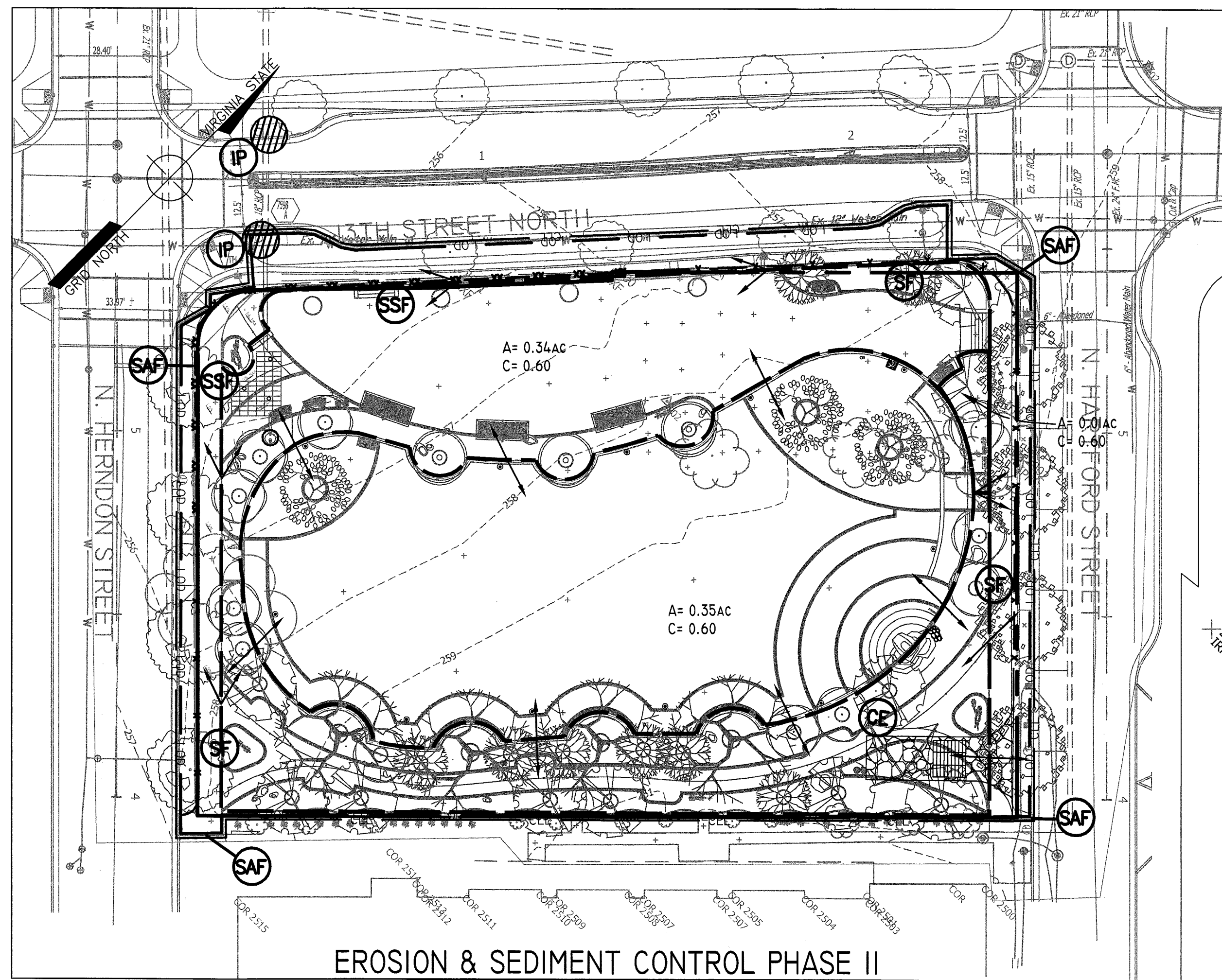
SCALE 1" = 25'

DEMOLITION LEGEND

SYMBOL	DESCRIPTION	REMARKS
	EXISTING WOOD CHIPS/MULCH TO BE REMOVED	REMOVE FULL DEPTH AND DISPOSE OF OFF SITE
	EXISTING CONCRETE WALK TO BE REMOVED	REMOVE FULL DEPTH AND DISPOSE OF OFF SITE
	ITEM TO BE REMOVED	ITEMS SHALL BE COMPLETELY REMOVED, INCLUDING ALL FOOTINGS OR STUMPS

EROSION/SEDIMENT CONTROL LEGEND

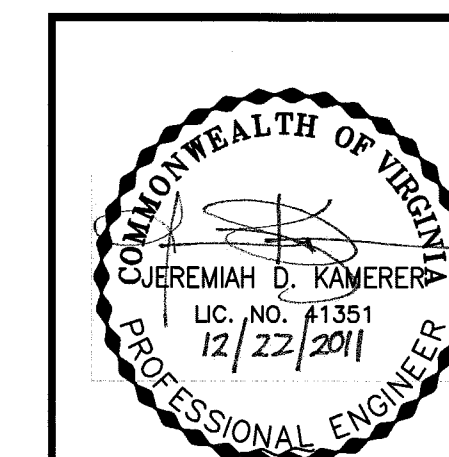
NO.	KEY	SYMBOL	DESCRIPTION
		— — — — —	LIMIT OF DISTURBANCE
3.01	TP SAF		TREE PROTECTION/ CONSTRUCTION SAFETY FENCE
3.02	CE		TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
3.05	SF		SILT FENCE
3.06	SSF		SUPER SILT FENCE
3.07	IP		STORM DRAIN INLET PROTECTION
		CLL — CLL — CLL	CONTRACT LIMIT LINE
		LDD — LDD — LDD	LIMITS OF DISTURBANCE



EROSION & SEDIMENT CONTROL PHASE II

SCALE 1" = 25'

THIS SHEET IS FOR DEMOLITION, EROSION & SEDIMENT CONTROL, AND DRAINAGE DIVIDES ONLY



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

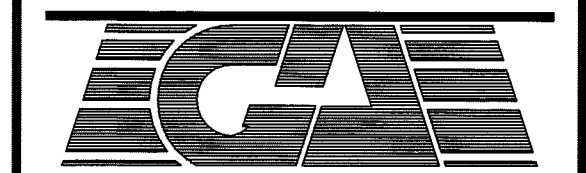
Project Name and Location

13th and Herndon Park Improvements

1299 N. HERNDON ST. CLARENDON, VA 22201

Sheet Title

EROSION & SEDIMENT CONTROL PLAN



William H. Gordon Associates, Inc.
Engineers, Land Planners, Landscape Architects, Surveyors
4501 DAILY DRIVE, CHANTLEY, VIRGINIA 20151
Phone: 703.263.1800 Fax: 703.263.0766

Approvals Date

Dinesh Tiwari 1/25/12
Department Director
A. J. DeLoe 1/25/12
Park Development Division Chief
R. Walker 1/20/12
Design Unit Supervisor

Revisions Date

DES REVIEW 10/12/11

Designed: J. WILLIAMS
Drawn: J. WILLIAMS
Checked: R. WALKER

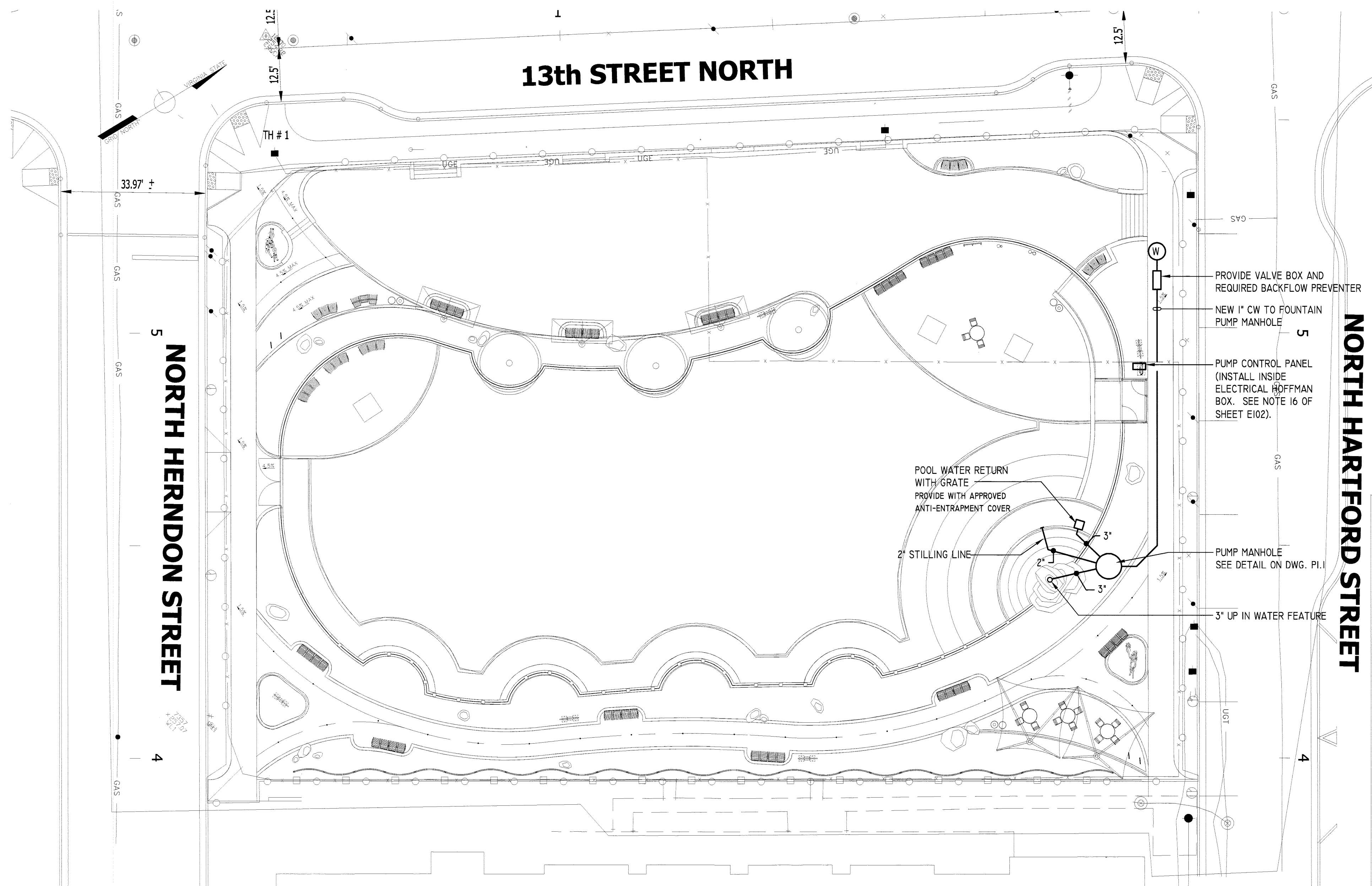
Filename: GC-101-2789-0601.dwg
Plotted: Jan 04, 2012

Scale: 1"=25'
Date: 22 DEC, 2011

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

13th & HERNDON PARK IMPROVEMENTS / ARLINGTON COUNTY PROJECT BY-RIGHT
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=25'	DESIGNED: J. WILLIAMS J. WILLIAMS	CHECKED: R. WALKER
SUBMITTED DATE: 22 DEC, 2011	APPROVED DATE: CHIEF TRANSP. PLANNING BUREAU	APPROVED DATE: CHIEF TRANSP. ENGINEERING BUREAU
APPROVED DATE: CHIEF WATER, SEWER, & STR. BUREAU	APPROVED DATE: CHIEF ENGINEERING BUREAU	APPROVED DATE: DIRECTOR OF ENV. SERVICES
SHEET GC-101		CONTRACT H- SHEET 14 OF 39



PLUMBING SITE PLAN
SCALE: 1/16"=1'-0"

SIMPLEX SUBMERSIBLE PUMP SYSTEM

GENERAL
FURNISH AND INSTALL A PUMP SYSTEM SIMILAR TO THAT DISTRIBUTED BY AMES, INC. 8918 HERMANN DRIVE, COLUMBIA, MARYLAND 21045, 301-621-8899 EXT. 107, CONTACT: KEVIN TRACY. THE SYSTEM SHALL INCLUDE ONE (1) TSURUMI B SERIES PUMPS WITH QUICK REMOVAL FITTINGS, STAINLESS STEEL GUIDE RAILS, DISCHARGE ELBOWS AND BOTTOM GUIDE RAIL SUPPORTS, STEEL MAIN COVER WITH PUMP ACCESS COVERS AND TOP GUIDE RAIL SUPPORTS, AMES/MESSCO NEMA 4X STEEL CONTROL PANEL FOR REMOTE MOUNTING. PUMPS MANUFACTURERS BY VAUGHAN AND HAYWARD GORDON ARE CONSIDERED EQUAL.

SUBMERSIBLE PUMP
TSURUMI SUBMERSIBLE PUMP MODEL # (TOS) 80821.5-62 RATED 30 GPM @ 49' TDH WITH 3" DISCHARGE, SELF-PRIMMING. CONSTRUCTION OF MAJOR PARTS OF THE PUMPING UNIT INCLUDING PUMP CASING, IMPELLER AND DISCHARGE ELBOW SHALL BE MANUFACTURED FROM GRAY CAST IRON, ASTM A48 CLASS 35. INTERNAL AND EXTERNAL SURFACES COMING INTO CONTACT WITH THE PUMPAGE SHALL BE PROTECTED BY A FUSED POLYMER COATING. ALL EXPOSED FASTENERS SHALL BE STAINLESS STEEL. ALL UNITS SHALL BE FURNISHED WITH A DISCHARGE ELBOW WITH 150 LB. (10KG/CM²) FLAT FACE FLANGE AND NPT COMPANION FLANGE. THE PUMP CASING SHALL INCORPORATE AN AIR RELIEF VALVE.

MOTOR
THE PUMP MOTORS SHALL BE 2 HP, 60 HZ, 240 VOLTS, 1 PHASE, 3400 RPM, AND SHALL BE NEMA 6 SUBMERSIBLE, DESIGN TYPE B EQUIVALENT. MOTOR SHALL BE RATED AT 5.9 FULL LOAD AMPS. MOTOR SHALL HAVE A 1.15 SERVICE FACTOR AND SHALL BE RATED FOR 20 STARTS PER HOUR. MOTOR SHALL BE AIR FILLED, COPPER WOUND, CLASS F INSULATED WITH BUILT IN THERMAL PROTECTION FOR EACH WINDING. OIL FILLED MOTOR SHELLS SHALL NOT BE CONSIDERED EQUAL. MOTOR SHAFT SHALL BE 420 OR 405 STAINLESS STEEL AND SHALL BE SUPPORTED BY TWO PERMANENTLY LUBRICATED, HIGH TEMPERATURE BALL BEARINGS WITH A B-10 LIFE RATING AT BEST EFFICIENCY POINT OF 60,000 HOURS. THE BOTTOM BEARING SHALL BE TWO ROW, DOUBLE SHIELDED, C3 DEEP GROOVE TYPE BALL BEARINGS. THE TOP BEARING ON ALL UNITS SHALL BE SINGLE ROW, DOUBLE SHIELDED, C3 DEEP GROOVE TYPE BALL BEARINGS. MOTOR HOUSING AND BEARING HOUSING SHALL BE GRAY CAST IRON, ASTM A48 CLASS 30. MOTORS SHALL BE D.O.L. OR STAR-DELTA START AND SHALL BE SUITABLE FOR ACROSS THE LINE START OR VARIABLE SPEED APPLICATIONS, UTILIZING A PROPERTY SIZED VARIABLE FREQUENCY DRIVE. EACH MOTOR SHALL BE FURNISHED WITH 32 FEET OF NEOPRENE JACKETED POWER CABLE.

MECHANICAL SEAL
A DOUBLE MECHANICAL SEAL SYSTEM SHALL BE FURNISHED. ALL UNITS SHALL BE FURNISHED WITH A DUAL INSIDE MECHANICAL SHAFT SEAL LOCATED COMPLETELY OUT OF THE PUMPAGE, RUNNING IN A SEPARATE OIL FILLED CHAMBER FILLED WITH CLEAN DIELECTRIC OIL AND FURTHER PROTECTED BY AN EXCLUSIONARY OIL SEAL LOCATED BETWEEN THE BOTTOM SEAL FACES AND THE FLUID BEING PUMPED. THE DEVICE SHALL NOT CONSUME ANY ADDITIONAL ELECTRICAL POWER. MECHANICAL SEALS SHALL BE RATED TO PRECLUDE THE INCURSION OF WATER UP TO 42.6 PSI. (98.4 FT). UNITS SHALL HAVE SILICON CARBIDE MECHANICAL SEAL FACES. MECHANICAL SEAL HARDWARE SHALL BE STAINLESS STEEL. UNITS DESIGNED TO EXCEED 42.6 PSI AT SHUT OFF HEAD SHALL INCORPORATE SEAL PRESSURE RELIEF PORTS. CARBON CERAMIC, TUNGSTEN CARBIDE OR SYSTEMS THAT ALLOW THE LOWER SEAL MECHANISM TO COME IN CONTACT WITH THE PUMPED MEDIA SHALL NOT BE CONSIDERED AN EQUAL. MECHANICAL SEAL CHAMBER SHALL INCLUDE THE TSURUMI "OIL LIFTER" LUBRICATION SYSTEM.

IMPELLER AND SUCTION COVER
IMPELLERS SHALL BE OF THE SINGLE OR TWO-VANE, SEMI-OPEN, SOLIDS HANDLING DESIGN EQUIPPED WITH TUNGSTEN CARBIDE VANE TIP AND SHALL BE SLIP FIT TO THE SHAFT AND KEY DRIVEN.

QUICK REMOVAL SYSTEM
THESE UNITS ARE TO BE FURNISHED WITH A SLIDING GUIDE RAIL SO THAT THE MOTOR AND PUMP END CAN BE RAISED AND LOWERED IN THE PIT WITHOUT UN-BOILING OR DISTURBING THE DISCHARGE PIPING. THE PUMP ELBOWS SHALL BE A HEAVY DUTY FOUR BOLT PATTERN AND PROVIDED BY THE PUMP MANUFACTURER.

CASING/VOLUTE
CASING AND VOLUTE SHALL BE HEAVY CLOSE GRAIN CAST IRON WITH SYMMETRICAL WATERWAY TO PROVIDE UNOBSTRUCTED FLOW.

CONTROL PANEL
CONTROL SHALL BE WEATHER PROOF FROM A SIMPLEX CONTROL PANEL. PANEL SHALL BE NEMA 4X STEEL ENCLOSURE. PANEL SHALL BE SUITABLE FOR EXTERIOR WALL MOUNTED. THE FOLLOWING ITEMS SHALL BE STANDARD:

- (1) FUSED DISCONNECT SWITCHES WITH LOCKOUT HANDLES THRU COVER FOR MAIN PUMP.
- (1) MAGNETIC STARTERS WITH OVERLOAD AND LOW VOLTAGE PROTECTION.
- (1) HAND-OFF-AUTOMATIC SELECTOR SWITCHES.
- (1) "EASY" ELECTRIC ALTERNATOR AND PLC.
- (1) CONTROL CIRCUIT TRANSFORMERS, 120 VOLT.
- (1) PUMP RUNNING LIGHTS.
- (1) OVERLOAD RESET BUTTONS.
- (1) WIRED AND NUMBERED TERMINAL STRIP.
- (1) HIGH WATER ALARM WITH LIGHT, ALARM BUZZER AND SILENCING SWITCH WITH DRY CONTACTS FOR REMOTE MONITORING.
- (2) MERCURY FLOAT SWITCHES WITH 20' CORD.

FILTER SYSTEM SHALL BE 10 MICRO BAG TYPE FILTER. 100 GPM FLOW RATE, 304 STAINLESS STEEL CONSTRUCTION WITH STAINLESS STEEL BASKET, ADJUSTABLE LEGS AND STRAINER BASKET.

AUTOMATIC CHLORINE FEEDER: UNIT SHALL BE FREE STANDING MODEL WITH ADJUSTABLE FLOW RATES TO MEET 1.1 PPM OF CHLORINE INJECTION AS REQUIRED BY AC24.1 WATER RECREATION FACILITIES. TOP LOADING UNIT. USES TABS OR STICKS. UPON POWER FAILURE, THE FEEDER SHALL FAIL TO OFF POSITION AND AUTOMATIC RESET.

ELECTRONIC WATER LEVEL CONTROL SYSTEM, PROVIDE "LEVOLOR" MODEL # K-1100 USING THE STILLING LINE METHOD OF MONITORING WATER LEVEL IN POOL. THE LEVEL CONTROL SHALL BE PROVIDED WITH SENSOR, CONTROL BOX AND SOLENOID VALVE FOR A COMPLETE INSTALLATION OR APPROVED EQUAL.

NOTE: ALL EQUIPMENT SPECIFIED IS OR APPROVED EQUAL.



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES
Park Development Division
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IFB # 670-12
Project Name and Location
13th and Herndon Park Improvements

Sheet Title
PLUMBING SITE PLAN & NOTES



Approvals Date
Dinaer Tisari 1/25/12
Department Director
S. Plath 1/25/12
Park Development Division Chief
S. Plath 1/20/12
Design Unit Supervisor

Revisions	Date

Designed: ELS
Drawn: TN
Checked: ELS
Filename: 09140.04_P-001.dwg
Plotted: Jul 26, 2011
Scale: AS NOTED
Date: 24 March 2011



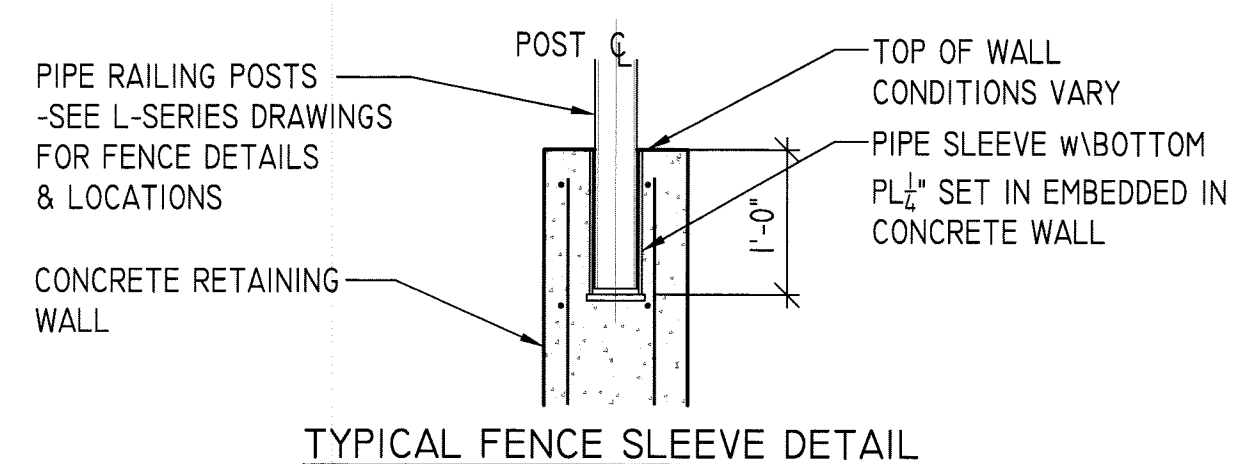
Sheet 19 of 39
P-001

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

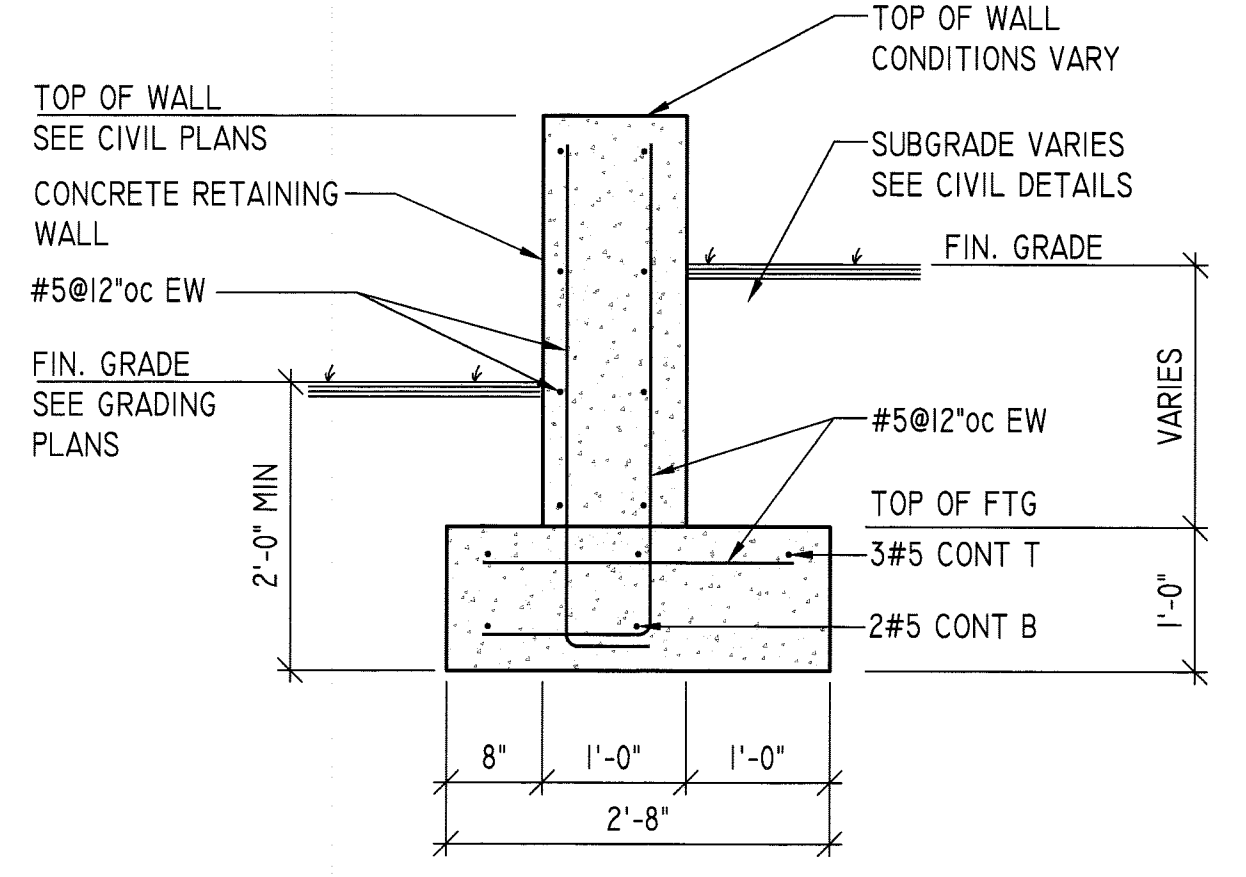
PLUMBING SITE PLAN & NOTES

SCALE: NOT TO SCALE	DESIGNED: _____	CHECKED: _____
SUBMITTED DATE: 24 MARCH 2011	APPROVED DATE: CHIEF TRANSP. PLANNING BUREAU	APPROVED DATE: CHIEF TRANSP. ENGINEERING BUREAU
APPROVED DATE: CHIEF WATER, SEWER, & STR. BUREAU	APPROVED DATE: CHIEF ENGINEERING BUREAU	APPROVED DATE: DIRECTOR OF ENV. SERVICES
SHEET P-001		CONTRACT H- SHEET 19 OF 39

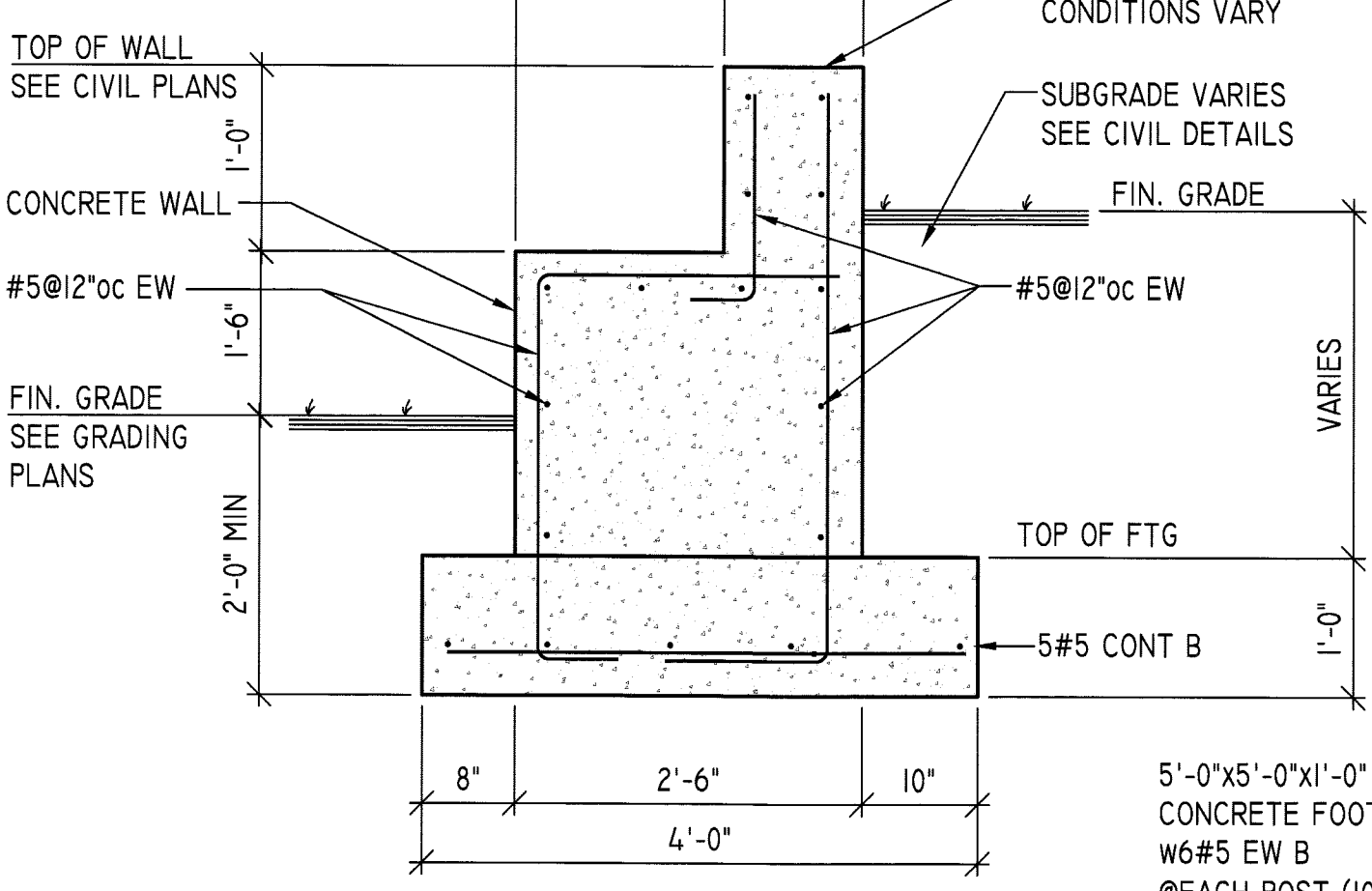
S3E Klingemann
S3E Klingemann, Inc.
8001 Braddock Road
Suite 200
Springfield, Virginia 22151
Phone: (703) 978-0100
Fax: (703) 978-6038
S3E #09140.04



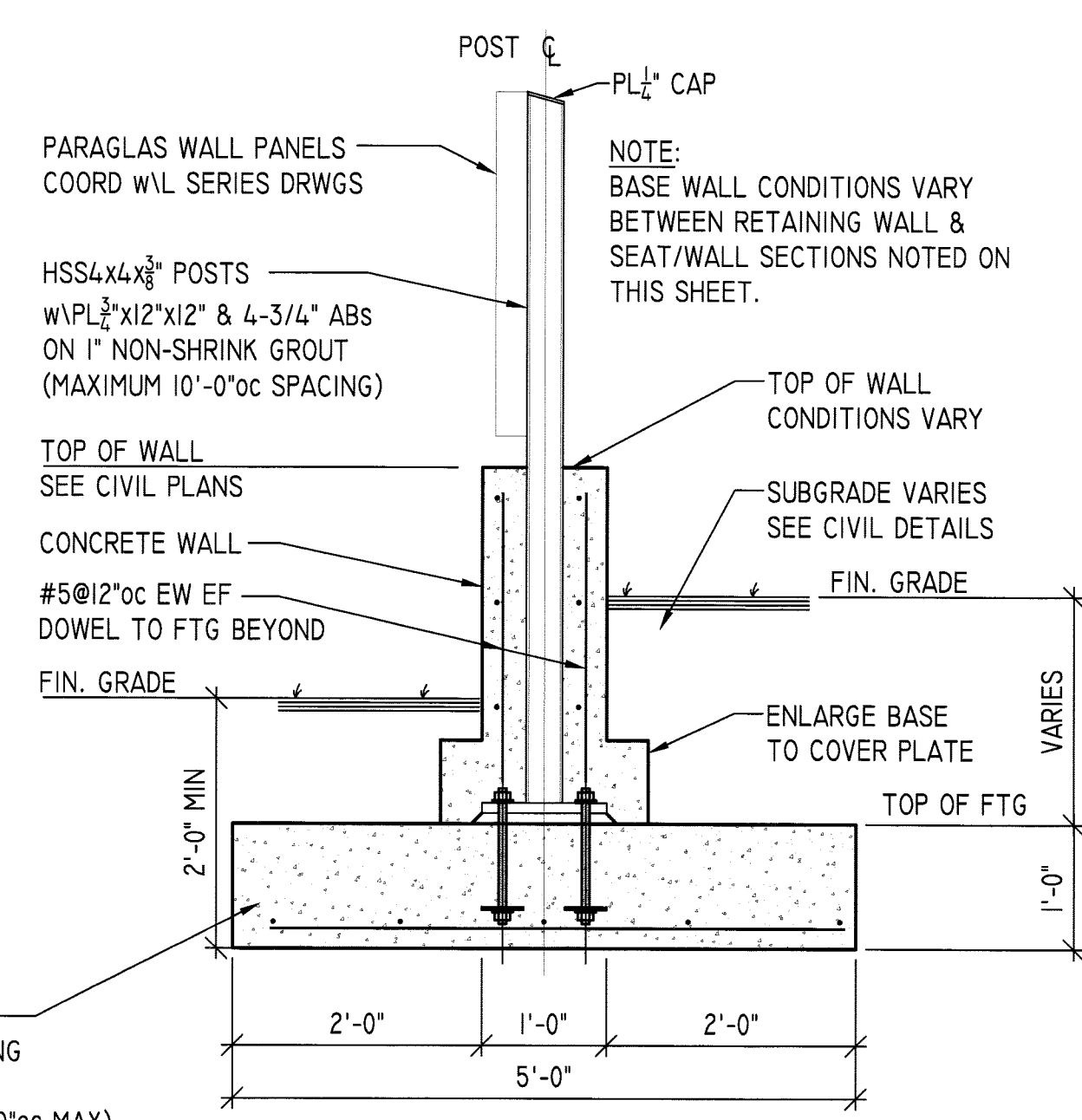
TYPICAL FENCE SLEEVE DETAIL



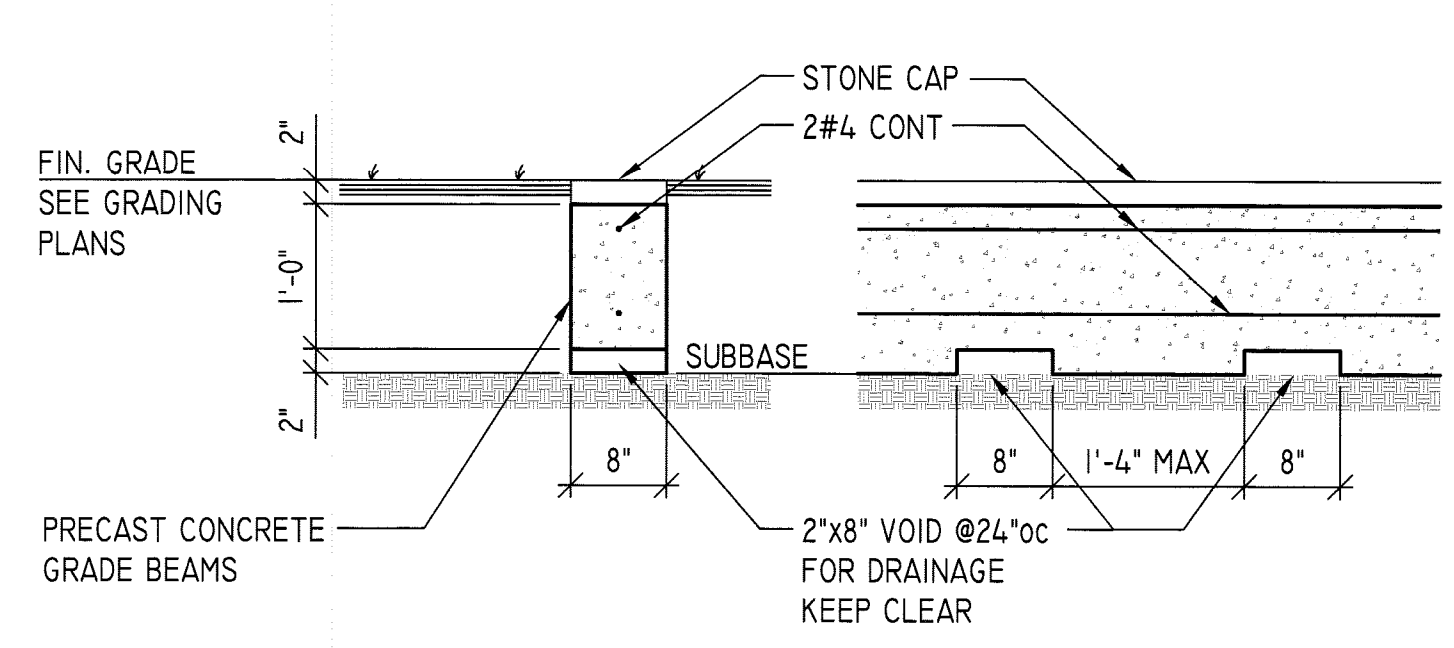
TYPICAL RETAINING WALL SECTION



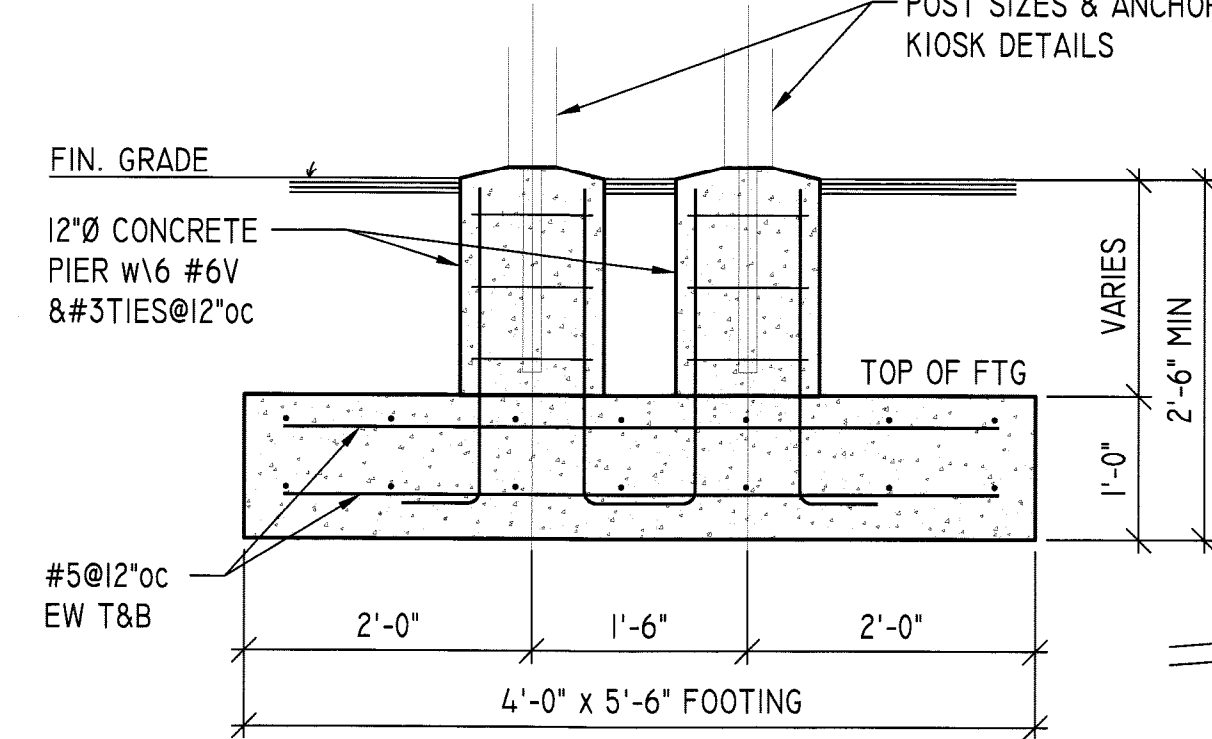
TYPICAL SEAT / WALL SECTION



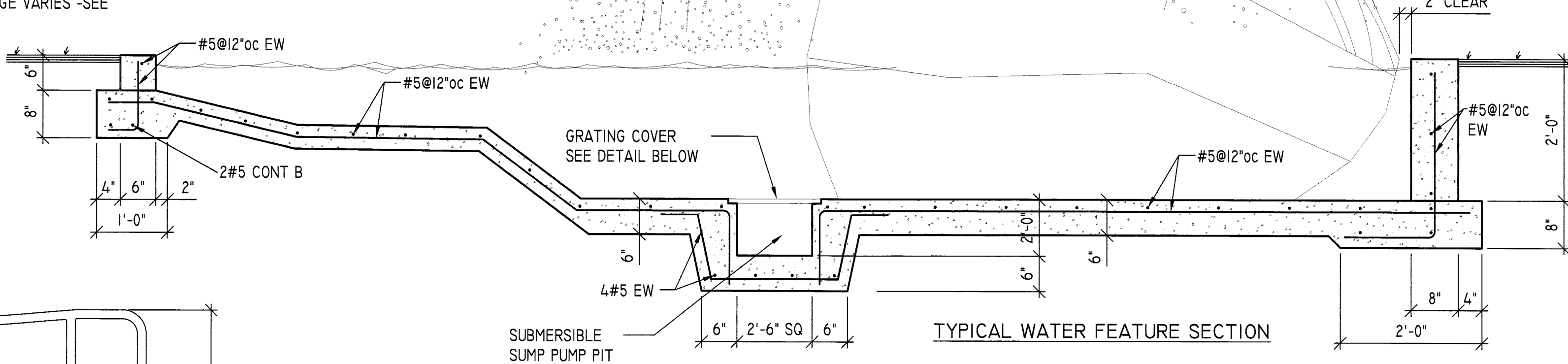
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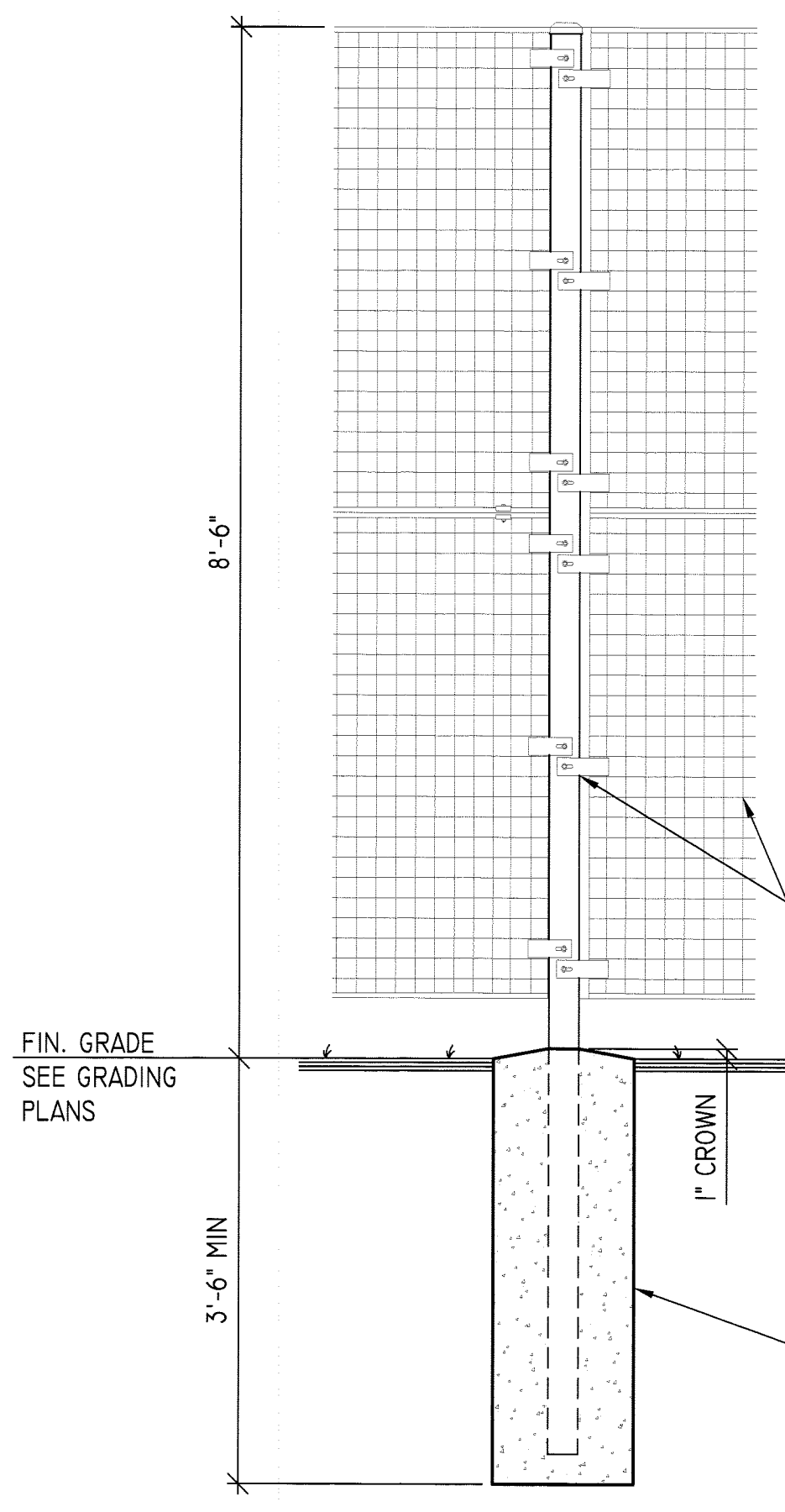
TYPICAL SURFACING TRANSITION SECTION



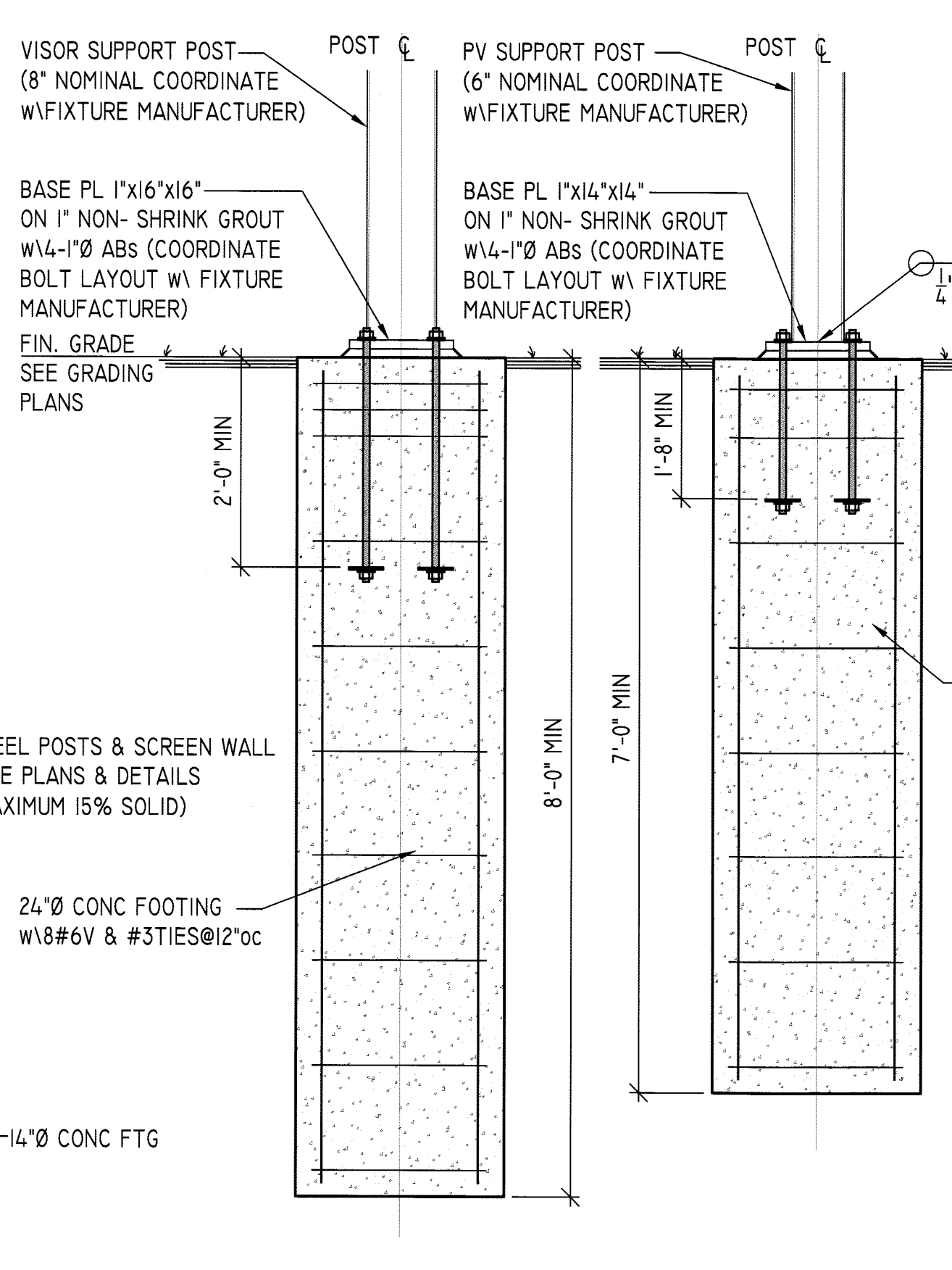
TYPICAL KIOSK FOUNDATION SECTION



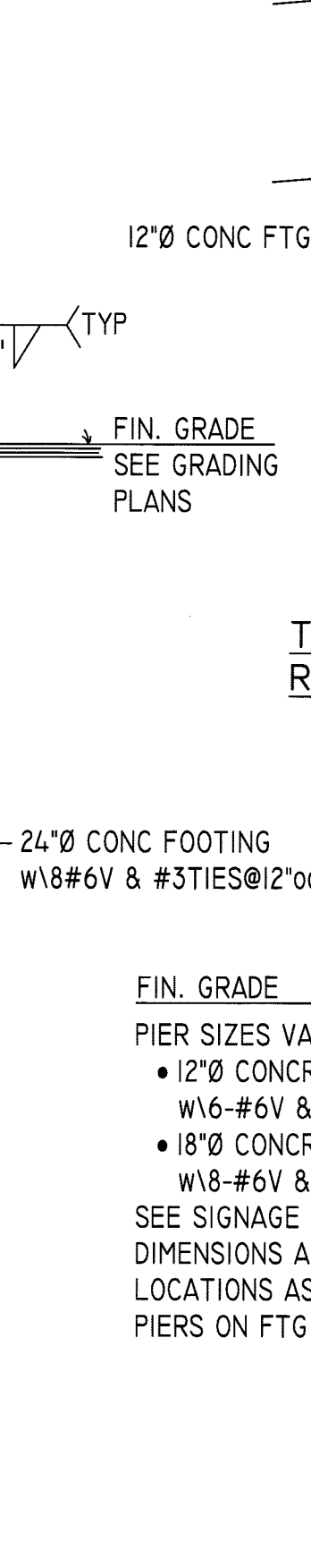
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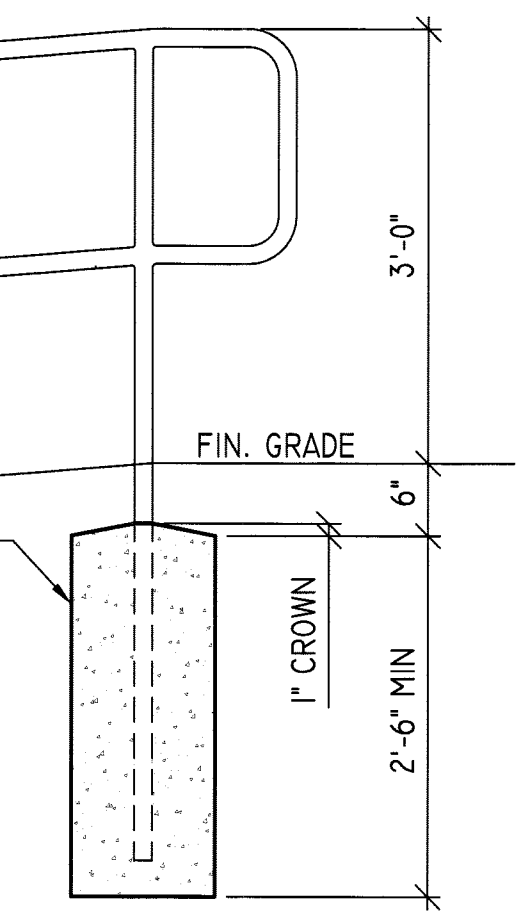
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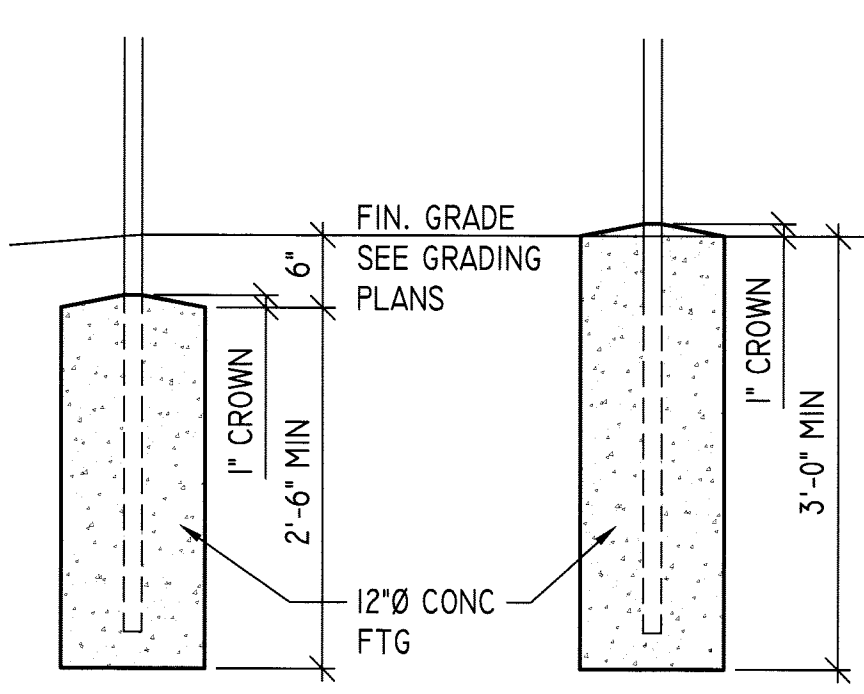
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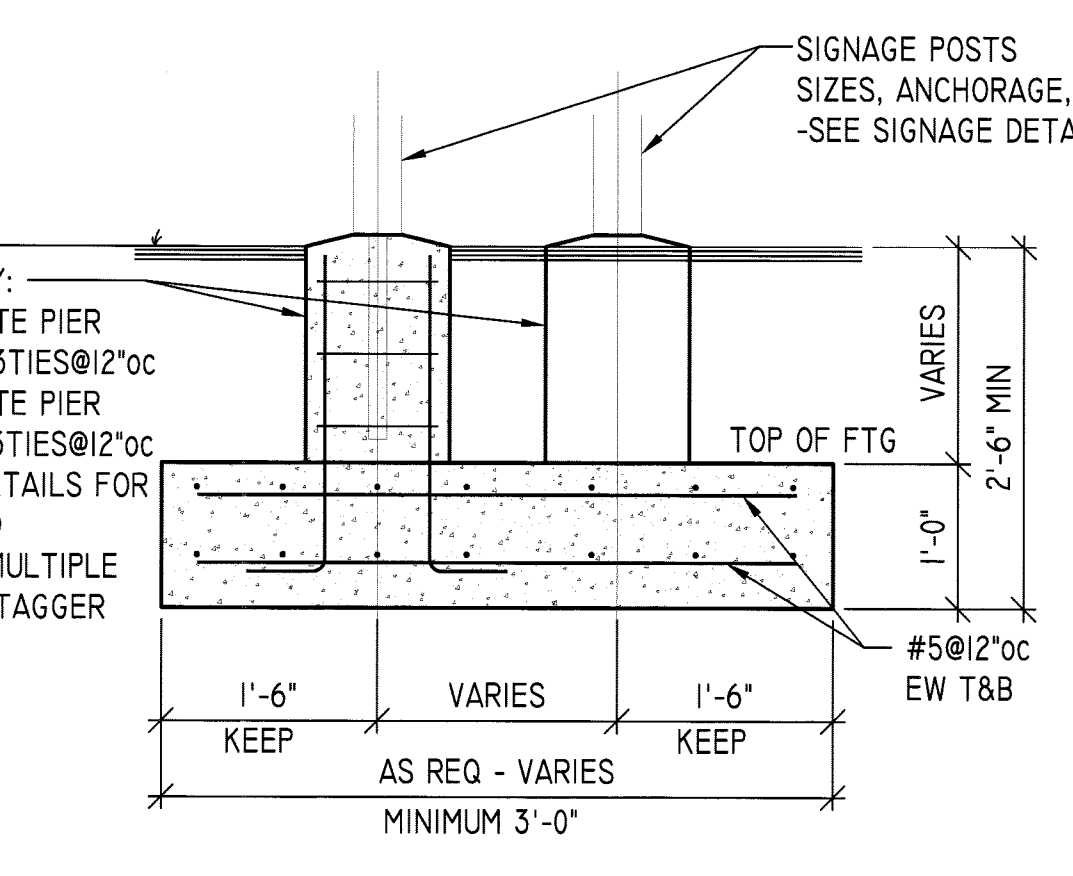
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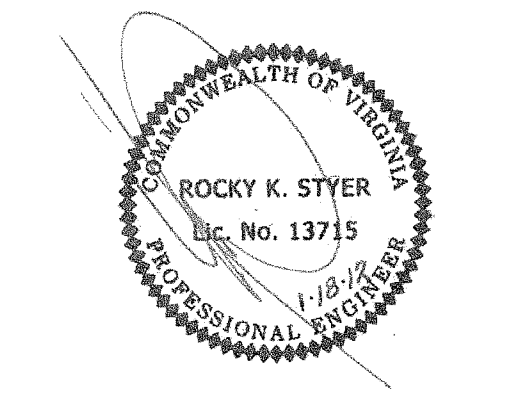
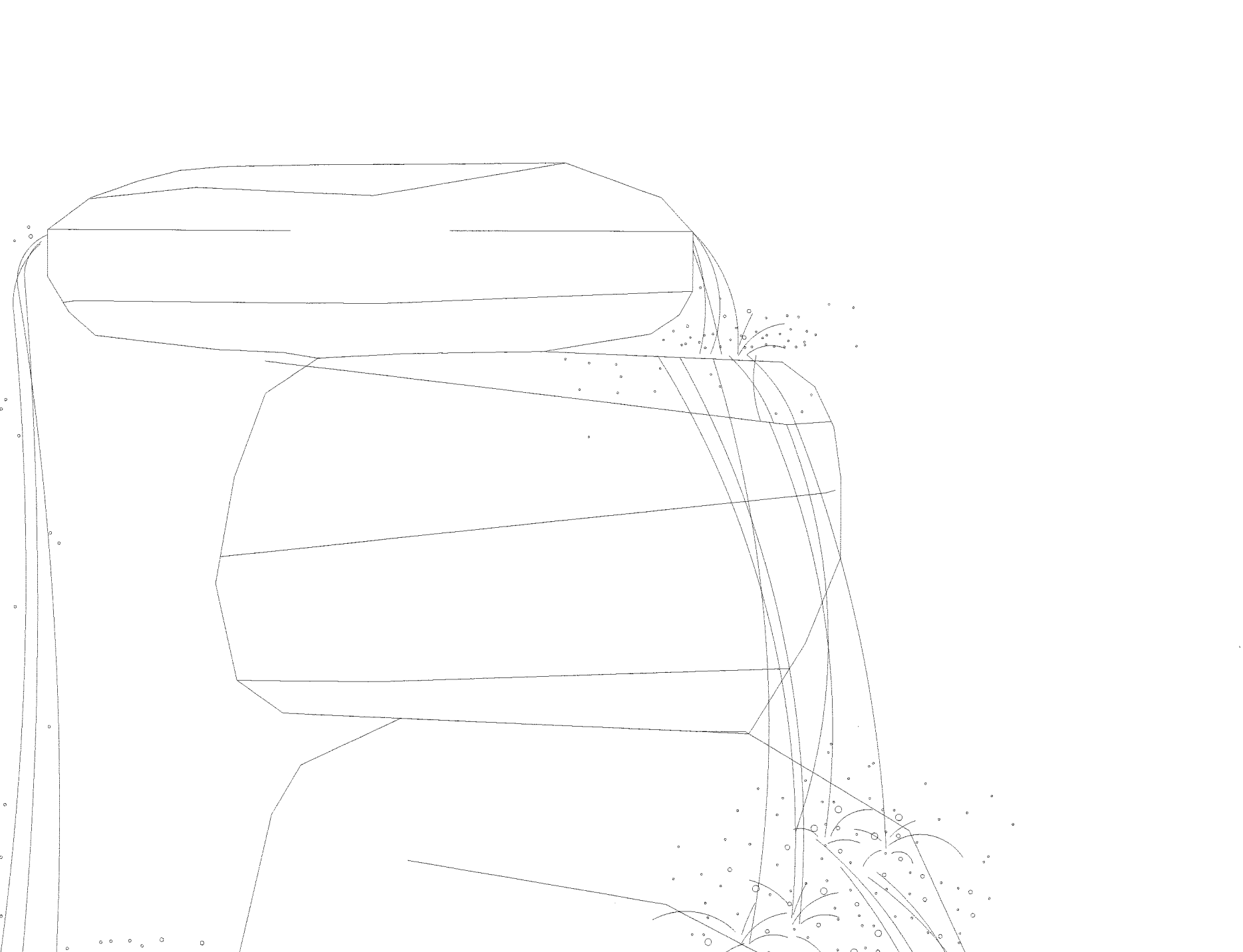
TYPICAL STAIR/RAMP RAILING FOUNDATION



TYPICAL GATE FOUNDATIONS



TYPICAL SIGNAGE FOUNDATION SECTION



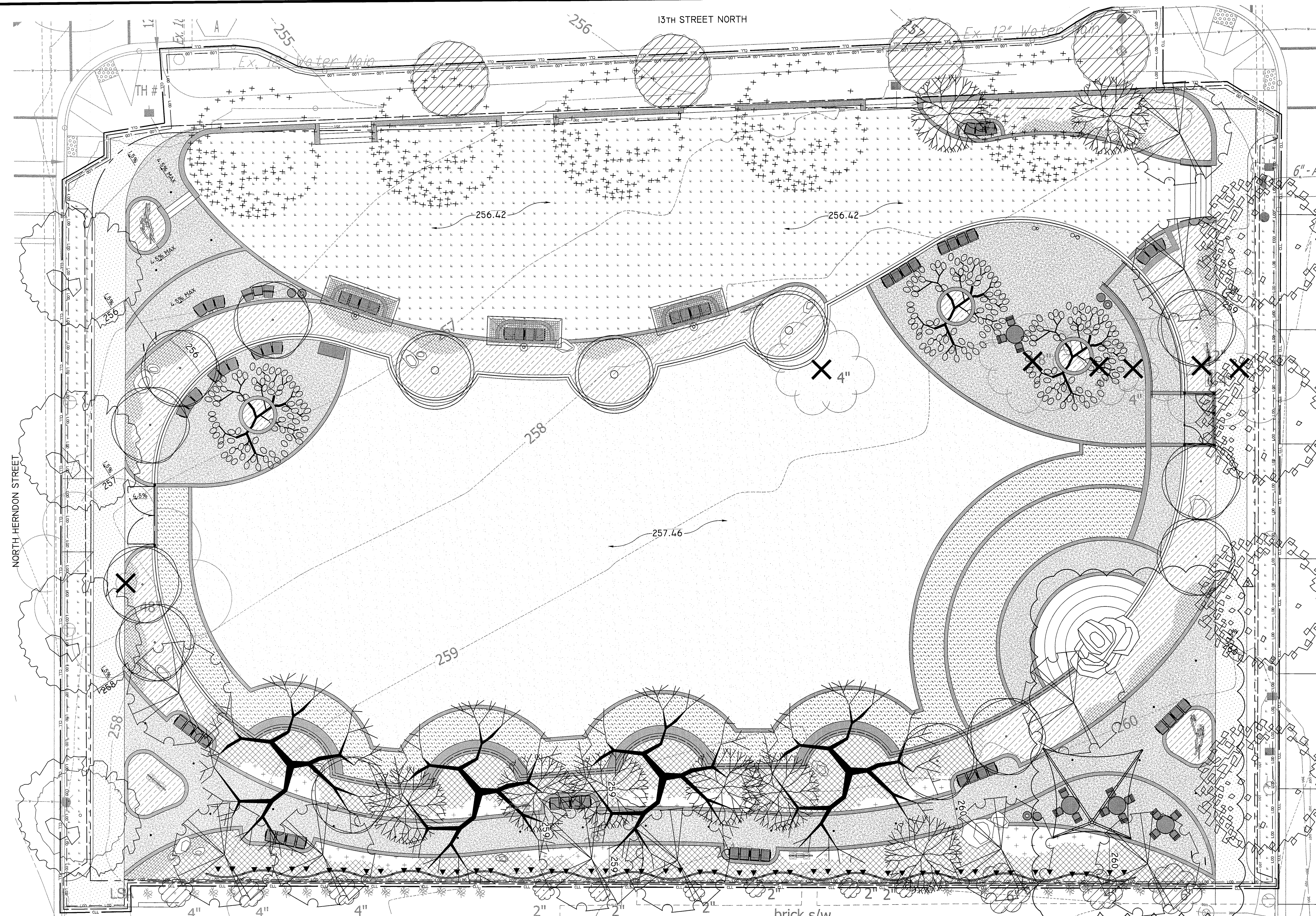
ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

STRUCTURAL DETAILS & SECTIONS

SCALE: NOT TO SCALE	DESIGNED: RKS	CHECKED: RKS
SUBMITTED DATE: 22 DECEMBER 2011	APPROVED DATE: CHIEF TRANSP. PLANNING BUREAU	APPROVED DATE: CHIEF TRANSP. ENGINEERING BUREAU
APPROVED DATE:	APPROVED DATE:	APPROVED DATE:
CHIEF WATER, SEWER, & STR. BUREAU	CHIEF ENGINEERING BUREAU	DIRECTOR OF ENV. SERVICES
	SHEET S-101	CONTRACT H- SHEET 22 OF 39

S3E Klingemann
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8001 Braddock Road
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Springfield, Virginia 22151
Phone: (703) 978-0100
Fax: (703) 978-6038
S3E #09140.04

- SUMP PIT GRATING COVER**
- NOTES:
- ALL GRATING & ATTACHMENTS SHALL BE STAINLESS STEEL
 - PROVIDE ANCHORED FRAMED IN CONCRETE BASE TO RECEIVE GRATING COVER IN TWO, SECURED AND REMOVABLE PIECES.
 - GRATING BEARING BARS SHALL BE 1"x1/2"@2'oc (CLOSE MESH) w/SWAGED CROSS BARS @ 4'oc
 - INCLUDE LIFT HANDLES FOR EACH SECTION AND HOLDDOWN DEVICES



LEGEND:

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED (TREES ARE LOCATED WITHIN CONSTRUCTION FOOTPRINT)
- CRITICAL ROOT ZONE OF EXISTING TREES (>3" DBH) WITHIN LIMITS OF WORK
- TREE PROTECTION FENCE - REFER TO DETAIL, SHEET GC-501
- LIMITS OF DISTURBANCE
- CONTRACT LIMIT LINE

NOTE: TREE PROTECTION FENCE AND CONTRACT LIMIT LINE ARE SHOWN OFFSET FROM THE LIMIT OF DISTURBANCE FOR GRAPHIC PURPOSES ONLY AND SHALL BE LOCATED ALONG THE LIMIT OF DISTURBANCE IN THE FIELD.

GENERAL CONST. NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING MISS UTILITY AT 811, A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY COST INCURRED DUE TO DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.
 2. DO NOT PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT OFFICER (703-228-3322). THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
 3. CONTRACTOR SHALL REMOVE FROM COUNTY PROPERTY ALL UNUSED MATERIAL AND DEBRIS FROM DEMOLITION, EXCAVATION AND CONSTRUCTION, TO THE SATISFACTION OF THE PROJECT OFFICER, ON A DAILY BASIS. COUNTY WASTE RECEPTACLES AND DUMPSTERS MAY NOT BE USED FOR THE DISPOSAL OF CONSTRUCTION DEBRIS.
 4. RESTORE ALL DISTURBED AREAS ACCORDING TO THE SPECIFICATIONS. REFER TO PLANS AND SPECIFICATIONS FOR PROPER SEED MIX AND PLACEMENT. STAKE OFF ALL SEEDED AREAS AFTER INSTALLATION.
 5. NO CONSTRUCTION ACTIVITIES ARE TO OCCUR TO ADJACENT BUILDINGS OR BUILDING GROUNDS. CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PARK AREA ONLY. CONTRACTOR SHALL CORRECT OR REPLACE IN KIND ANY DAMAGE TO BUILDINGS, FENCES, PATHS, DRIVES OR GROUNDS CAUSED BY HIS ACTIVITIES.
 6. DRAWING IS DIAGRAMMATIC. CONTRACTOR TO VERIFY ALL LOCATIONS AND CONDITIONS ON SITE. COUNT ALL PLANT MATERIAL BEFORE BIDDING.
 7. FINISH GRADE TO BE 1" BELOW ALL WALKS, CURBS, AND PAVING.
 8. CONTRACTOR TO REPAIR AT HIS OWN EXPENSE ALL PROPERTY DAMAGE WHICH OCCURS DURING PROJECT INSTALLATION.
 9. ALL PLANTING TO BE DONE ACCORDING TO THE PLANS AND SPECIFICATIONS. SITE VISIT W/PROJECT OFFICER IS MANDATORY BEFORE BEGINNING WORK.
 10. CONTRACTOR SHALL REMOVE ALL EXISTING INVASIVE PLANT SPECIES FROM THE SITE, PRIOR TO PLANTING. CONTRACTOR SHALL COORDINATE ALL EFFORTS TO IDENTIFY AND REMOVE SUCH INVASIVE PLANT MATERIAL WITH THE COUNTY FORESTRY AND LANDSCAPING DIVISION SUPERVISOR, JAMIE BARTALON AT (703) 228-7747.
- LANDSCAPE BOULDER - SIZE VARIES. CONTRACTOR SHALL NOTIFY PROJECT OFFICER OF AVAILABLE SELECTION AND OBTAIN APPROVAL PRIOR TO INSTALLATION. REFER TO DETAIL IS, SHEET L-7.1.

IFB # 670-12

Project Name and Location
13th & Herndon Park Improvements

Sheet Title
Planting & Landscape Conservation Plan - Trees & Groundcover

Approvals Date

Dinora Titani 1/25/12
Department Director

A. Deleh 1/25/12
Park Development Division Chief

P. J. Miller 1/21/12
Design Unit Supervisor

Revisions	Date
△ PER ZONING REVIEW	9/14/11
△ PER DES REVIEW	10/12/11
△ PER PRGR REVIEW	12/22/11

Designed: AW
Drawn: AW
Checked: BG

Filename: Planting & Landscape Conserv
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 24 MARCH, 2011

Seal

PLANT LEGEND				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE / NOTES	QUANTITY (THIS SHEET)
TREES				
	ACER RUBRUM 'ARMSTRONG'	RED MAPLE	8-10'	4
	ACER GINNALA 'FLAME'	AMUR MAPLE	8-10'	3
	CERCIS CANADENSIS	EASTERN REDBUD	5-6'	8
	CORNUS FLORIDA 'APALACHIAN SPRING'	FLOWERING DOGWOOD	5-6'	3
	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA'	SWEET GUM	8-10'	5
	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	5-6'	11
	NYSSA SYLVATICA	BLACK GUM	8-10' CONTAINER GROWN	10
	CELTIS OCCIDENTALIS	HACKBERRY	8-10' CONTAINER GROWN	4
	ZELCOVA SERRATA	JAPANESE ZELCOVA	8-10'	4

VINES / GROUNDCOVER				
	GELSEMIUM SEMPERVIRENS	CAROLINA JASMINE	5 GAL	50
	PHLOX STOLONIFERA 'BRUCE'S WHITE'	CREeping PHLOX	FROM PLUGS / FLATS	12" O.C.
	SEDUM SPP. (AVAIL. @ ETERA 877.694.7613)	SEDUM SUN / PART SHADE MIX	BULK STEM CUTTINGS	250LBS/1000SF
	SEDUM SPP. (AVAIL. @ ETERA 877.694.7613)	SEDUM PART / SHADE MIX	BULK STEM CUTTINGS	250LBS/1000SF
	PHLOX SUBULATA 'WHITE DELIGHT'	MOSS PHLOX	FROM PLUGS / FLATS	12" O.C.
	TURFGRASS	REFER TO SPECIFICATIONS	PER PLAN	FROM SEED

TREE CONSERVATION NOTES:

THERE ARE NO RESOURCE PROTECTION AREAS (RPA) ON THE PROJECT SITE.

1. THERE ARE NO SPECIMEN TREES ON THE PROJECT SITE.
2. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION PER THE SPECIFICATIONS IN LOCATIONS SHOWN ON THE PLAN, AND SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION.
3. ALL EXISTING TREES WHERE WORK IS TO TAKE PLACE WITHIN THE CRITICAL ROOT ZONE SHALL BE MONITORED. TREES INCURRING DAMAGE DUE TO CONSTRUCTION SHALL BE PRUNED AND FERTILIZED AS NEEDED BY A QUALIFIED PERSON AT THE CONTRACTOR'S EXPENSE. TREES DEAD OR SEVERELY DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK SHALL BE REPLACED PER THE ARLINGTON COUNTY TREE REPLACEMENT STANDARDS AT THE CONTRACTOR'S EXPENSE.

TREE REPLACEMENT SCHEDULE:

REQUIREMENTS PER AC DPW TREE REPLACEMENT STANDARDS (THIS SHEET)

TREES TO BE REMOVED <10' DBH: 5

TREES TO BE REMOVED >10' DBH: 2

NOTE: THE TREE REPLACEMENT FORMULA FOR THESE TREES WERE NOT CALCULATED, DUE TO THE INCREASE OF TREES AND OVER-ALL TREE CANOPY PROVIDED BY THIS PLAN GREATLY EXCEEDS THE REPLACEMENT REQUIREMENT.

TREE CANOPY COVERAGE NOTE:

PER SECTION 61-10.C.3 OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE, THE PROPOSED USE IS EXEMPT FROM THE TREE CANOPY COVERAGE REQUIREMENTS OF THE ORDINANCE.

PLANTING NOTES:

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE TO ARLINGTON COUNTY LANDSCAPE STANDARDS (REV. JULY 2004).
2. INSTALL PLANTS ACCORDING TO PLANS AND SPECIFICATIONS.
3. STREET TREES AND GROUND COVER SHALL BE PLANTED ACCORDING TO CURRENT ARLINGTON COUNTY LANDSCAPE STANDARDS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PER ARLINGTON COUNTY ADMINISTRATIVE REGULATION NO. 4.3.
5. REFER TO SHEET L-6.2 FOR FURTHER INFORMATION.



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location

13th & Herndon
Park Improvements

Sheet Title

Planting & Landscape Conservation Plan - Shrubs

Approvals Date

Dinesh Tiwari 1/25/12
Department Director

J. Doble 1/25/12
Park Development Division Chief

J. Miller 1/20/12
Design Unit Supervisor

Revisions Date

△ PER_ZONING_REVIEW 9/14/11
△ PER_DES_REVIEW 10/12/11
△ PER_PRCR_REVIEW 12/22/11

Designed: AW

Drawn: AW

Checked: BG

Filename: Planting & Landscape Const

Plotted: Jan 18, 2012

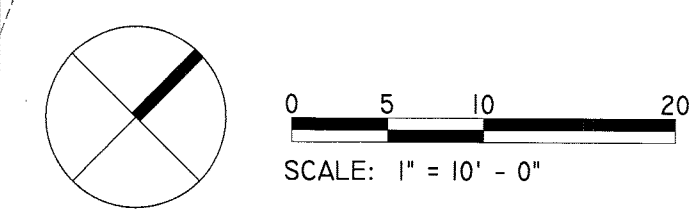
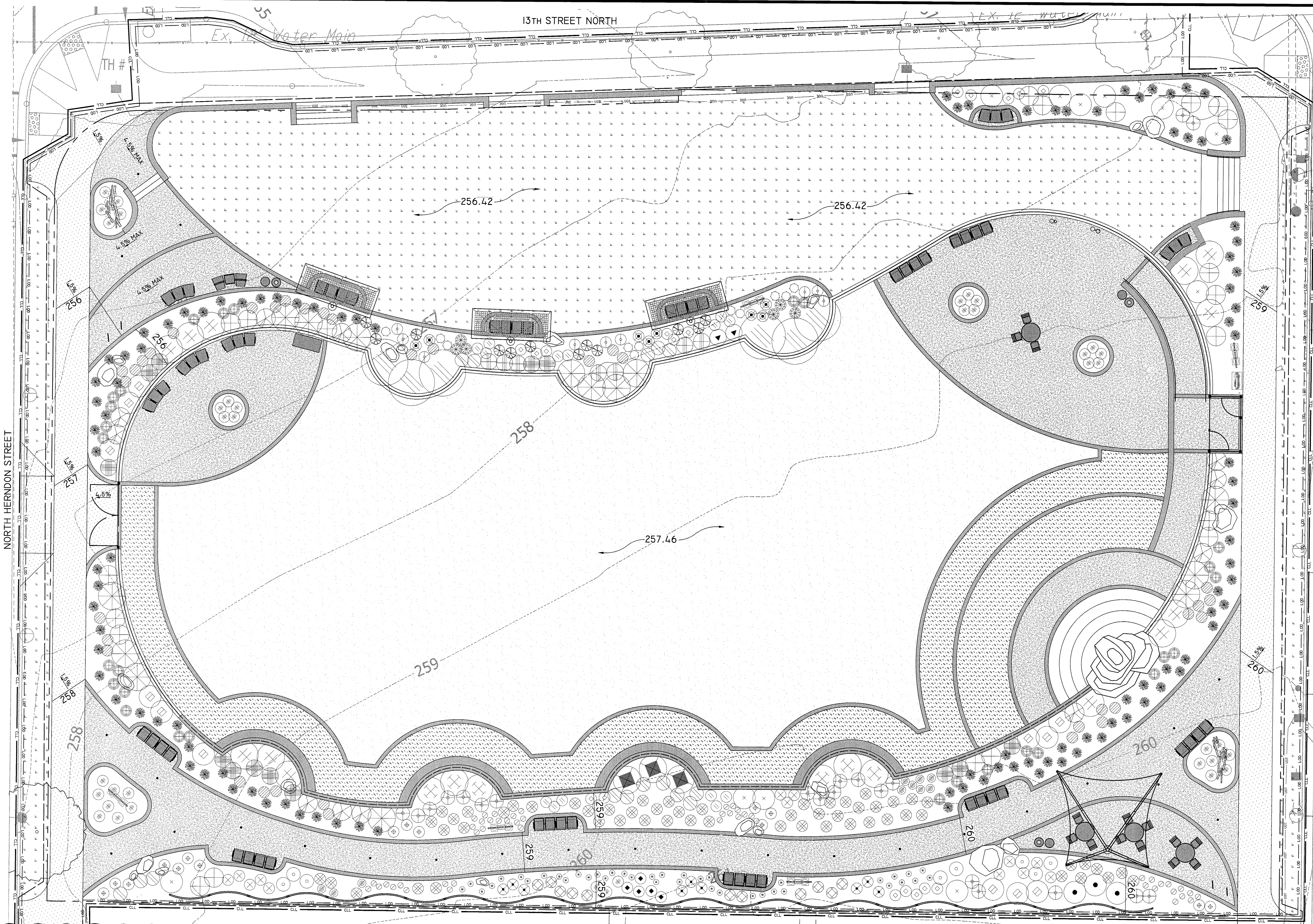
Scale: AS SHOWN

Date: 24 MARCH, 2011

Seal

Sheet 24 of 39

L-6.1



PLANT LEGEND				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE / NOTES	QUANTITY (THIS SHEET)
SHRUBS				
⊕	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	5GAL	6
⊖	CEANOTHUS AMERICANUS	NEW JERSEY TEA	IGAL	15
⊗	CLETHERA ALNIFOLIA	SWEET PEPPERBUSH	5GAL	14
⊗	GAYLUSSACIA BACCATA	BLACK HUCKLEBERRY	IGAL	21
●	ILEX GLABRA 'CHAMZIN' OR 'SHAMROCK'	INKBERRY	IGAL	3
⊖	ITEA VIRGINICA	VIRGINIA SWEETSPICE	IGAL	12
⊖	LINDERA BENZOIN	SPICEBUSH	5GAL	6
⊕	RHUS AROMATICA	FRAGRANT SUMAC	5GAL	12
⊗	RUBUS ALLEGHENIENSIS	ALLEGHENY BLACKBERRY	IGAL	7
⊖	VACCINIUM PALLIDUM	EARLY LOWBUSH BLUEBERRY	IGAL	9
◆	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	5GAL	3
⊖	VIBURNUM ACERIFOLIUM	MAPLE-LEAVED ARROWWOOD	IGAL	8

GRASSES				
⊗	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	IGAL	39
⊕	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	IGAL	9
⊖	PANICUM VIRGATUM 'NORTH WIND'	BLUE SWITCHGRASS	IGAL	11
⊕	PANICUM VIRGATUM 'SHANANDOAH'	SWITCHGRASS	IGAL	38
■	SCHIZACHYRIUM SCOPARUM	LITTLE BLUESTEM	IGAL	5
FERNS				
⊗	ASPLENIUM PLATYNEURON	EBONY SPLEENWORT	IGAL	106
⊖	DRYOPTERIS CRISTATA	SHIELD FERN	IGAL	15
⊖	DRYOPTERIS MARGINALIS	MARGINAL EVERGREEN FERN	IGAL	8
⊕	POLYSTICHUM ACROSTICHOIDES	CHRISTMAS FERN	IGAL	57

LANDSCAPE BOULDER - SIZE VARIES. CONTRACTOR SHALL NOTIFY PROJECT OFFICER OF AVAILABLE SELECTION AND OBTAIN APPROVAL PRIOR TO INSTALLATION. REFER TO DETAIL 15, SHEET L-7.1.

PERENNIALS				
⊖	AQUILEGIA CANADENSIS	COLUMBINE	IGAL	19
⊗	ASCLEPIAS SYRIACA	MILKWEED	IGAL	13
⊖	ASCLEPIAS TUBEROSA	BUTTERFLYWEED	IGAL	14
⊗	COREOPSIS TRIPTERIS	TALL COREOPSIS	IGAL	21
⊗	COREOPSIS VERTICILLATA	THREADLEAF COREOPSIS	IGAL	12
⊕	ECHINACEA PURPUREA	PURPLE CONEFLOWER	IGAL	13
⊕	EUPATORIUM FISTULOSUM	JOE-PYE WEED	IGAL	2
⊗	EUPATORIUM PURPUREUM	GREEN STEMMED JOE-PYE WEED	IGAL	11
⊖	IRIS VIRGINICA	SOUTHERN BLUE FLAG	IGAL	4.8
⊕	LIATRIS SPICATA	GAYFEATHER	IGAL	8
⊖	LOBELIA SIPHILLITICA	GREAT BLUE LOBELIA	IGAL	6
⊗	MONARDA BRADBURIANA	WILD BERGAMOT	IGAL	29
⊖	MONARDA DIDYMA	BEEBALM	IGAL	32
⊕	PENSTEMON LAEVIGATUS	EASTERN BEARDTONGUE	IGAL	10
⊖	RUDBECKIA FULGIDA	ORANGE CONEFLOWER	IGAL	9

FOR INFORMATION ONLY

L:\Division\Park Development\Projects\James Hunter Park\Design\CAD\CDG

PLANTING NOTES:

1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED, INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY PROJECT OFFICER PRIOR TO INSTALLATION.
3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS, WELL-DEVELOPED DENSELY FOLIATED BRANCHES, AND VIGOROUS ROOT SYSTEMS; AND BE FREE FROM DEFECTS, INJURIES, WEEDS, AND INSECT PESTS.
4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO GROWTH OF PLANT MATERIAL.
5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.
6. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY IF/WHEN PRACTICAL. IN THE EVENT THAT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD SHALL BE REJECTED.
7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF ROOTBALL SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF ANSI Z60 "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
8. ALL PLANTS SHALL BE PLANTED AND FERTILIZED IN ACCORDANCE WITH RESI EPIC SYSTEM RECOMMENDATIONS AND AS INDICATED IN THE DRAWINGS.
9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.
10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. INSTALL PLANTS PER THE PLANS, DETAILS AND MANUFACTURER (RESI EPIC SYSTEM) RECOMMENDATION.
11. NO PLANTS, EXCEPT GROUNDCOVERS AND PERENNIALS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.
12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT A NORMAL OR NATURAL RELATIONSHIP TO THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE THE PLANT IN THE CENTER OF THE PIT.
13. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. PRUNE DEAD, DISEASED OR DAMAGED TISSUE FROM ALL PLANTS. MAIN LEADER OF TREES SHALL NOT BE CUT BACK.
14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
15. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES 6" AND GREATER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE INSTALLED AS INDICATED. THE LANDSCAPE CONTRACTOR SHALL REMOVE STAKING, GUYING AND TREE WRAP AT THE END OF ONE YEAR MAINTENANCE AND GUARANTEE PERIOD.
16. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH.
17. NEW PLANTING AREAS AND SEEDING SHALL BE ADEQUATELY IRRIGATED OR WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN. EPIC SYSTEM SHALL BE COMPLETE AND IN PLACE AND ADJUSTED PROPERLY TO PROVIDE ADEQUATE IRRIGATION TO THE PLANTINGS UPON INSTALLATION.
18. ALL PLANTS SHOWN ON THE APPROVED LANDSCAPE PLAN SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR LANDSCAPE ARCHITECT'S REPRESENTATIVE. THE LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD. TREES, SHRUBS, VINES AND GROUNDCOVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVED BY THE PLANNING AUTHORITIES SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS:

TYPE	DATES
PLANTS	03/15 TO 12/15
LAWNS	03/15 TO 06/15 09/15 TO 12/01

THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH PLANTING THESE TREES IN THIS SEASON:

ACER RUBRUM	POPULUS SPP.
BETULA SPP.	PRUNUS SPP.
CARPINUS SPP.	PYRUS SPP.
CRATEGUS SPP.	QUERCUS SPP.
KOELREUTERIA PANICULATA	SALIX SPP.
LIQUIDAMBAR STYRACIFLUA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA
PLATANUS ACERIFOLIA	

ANY PLANTINGS INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. PLANTINGS ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.

19. ALL DISTURBED AREAS (STREETSCAPE / RIGHT OF WAY) SHALL BE TREATED WITH 4" TOP SOIL AND SEEDED IN ACCORDANCE WITH PERMANENT STABILIZATION METHODS INDICATED ON SOIL EROSION AND SEDIMENT CONTROL SHEET.

ADDITIONAL PLANTING NOTES:

1. FINAL LOCATION FOR PLANT MATERIAL AND PLANTING BEDS SHALL BE SUBJECT TO THE LANDSCAPE ARCHITECT'S APPROVAL. CONTRACTOR SHALL OBTAIN LANDSCAPE ARCHITECT'S APPROVAL FOR LOCATIONS PRIOR TO DIGGING OR INSTALLATION.
2. ALL PLANTS SHALL BE INSTALLED IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS FOR THE RESI EPIC SYSTEM. IN ADDITION TO THE LATEST EDITION OF THE ARLINGTON COUNTY GOVERNMENT DEPARTMENT OF ENVIRONMENTAL SERVICES STANDARD SPECIFICATIONS FOR PLANT INSTALLATION ALL STREET TREES SHALL BE PLANTED ACCORDING TO THE LATEST EDITION OF THE ARLINGTON COUNTY GOVERNMENT DEPARTMENT OF ENVIRONMENTAL SERVICES STANDARD SPECIFICATIONS FOR PLANT INSTALLATION.
3. CARE SHALL BE TAKEN TO PRESERVE EXISTING TREES AND ROOT SYSTEMS. TREES INCURRING ROOT DAMAGE DUE TO CONSTRUCTION SHALL BE PRUNED WITH CLEAN, SHARP TOOLS.
4. CONTRACTOR SHALL LEAVE NO HOLES OPEN OVERNIGHT. IF PLANTS CANNOT BE PLANTED IN HOLES DUG, THE HOLES SHALL BE BACKFILLED OR SUITABLY COVERED.
5. IF REQUIRED, CONTRACTOR MAY OBTAIN PERMIT FOR FIRE HYDRANT USE FOR WATERING FROM ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.
6. CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES PRIOR TO PLANTING. DO NOT PLANT DIRECTLY OVER UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM FAILURE TO PROPERLY LOCATE AND PROTECT UTILITIES.
7. THE CONTRACTOR SHALL NOTIFY THE COUNTY'S URBAN FORESTER 72 HOURS PRIOR TO DELIVERY AND INSTALLATION OF LANDSCAPE PLANTS, SO THAT HE MAY BE ON SITE TO INSPECT PLANT MATERIAL AND VIEW INSTALLATION.
8. WHERE NO CULTIVAR IS LISTED, THE PLANT MUST BE THE STRAIGHT SPECIES. CONTRACTOR SHOULD START LOOKING FOR PLANTS EARLY TO ENSURE AVAILABILITY AT TIME OF PLANTING.



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

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IFB # 670-12

Project Name and Location

**13th & Herndon
Park Improve-
ments**

Sheet Title

**Planting &
Landscape
Conservation
Plan - Notes**

Approvals Date

Dinesh Tiwari 1/25/12
Department Director
[Signature] 1/25/12
Park Development Division Chief
[Signature] 1/20/12
Design Unit Supervisor

Revisions Date

△ PER ZONING REVIEW 9/14/11
△ PER DES REVIEW 10/12/11
△ PER PRCR REVIEW 12/22/11

Designed: AW
Drawn: AW
Checked: BG

Filename: Planting & Landscape Cons
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 24 MARCH, 2011

Seal

Sheet 25 of 39

L-6.2

Approvals	Date
<i>Dineen Tivoni</i>	1/25/12
Department Director	
<i>J. DeWitt</i>	1/25/12
Park Development Division Chief	
<i>P. M. Miller</i>	1/20/12
Design Unit Supervisor	

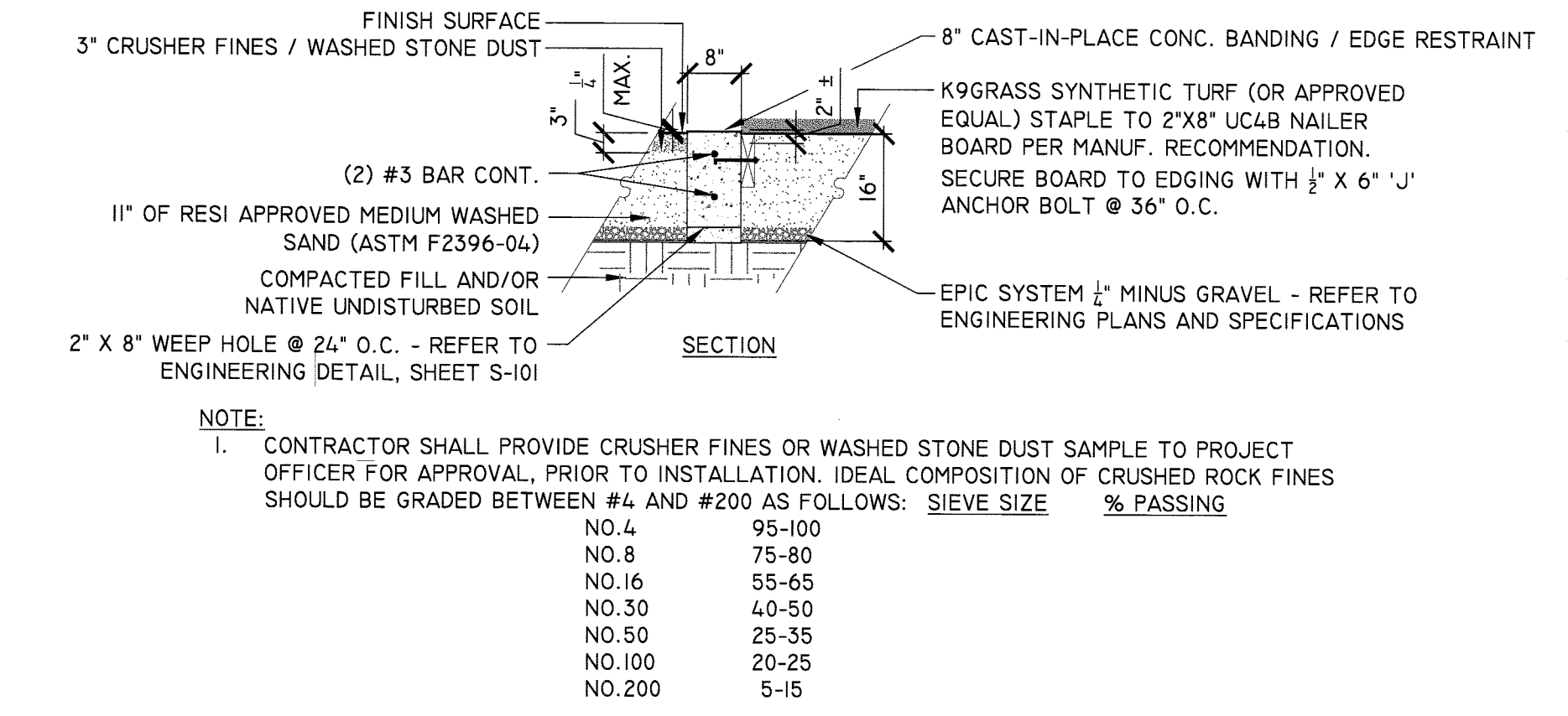
Revisions	Date
△ PER ZONING REVIEW	9/14/11
△ PER DES REVIEW	10/12/11
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Designed: AW
Drawn: AW
Checked: BG

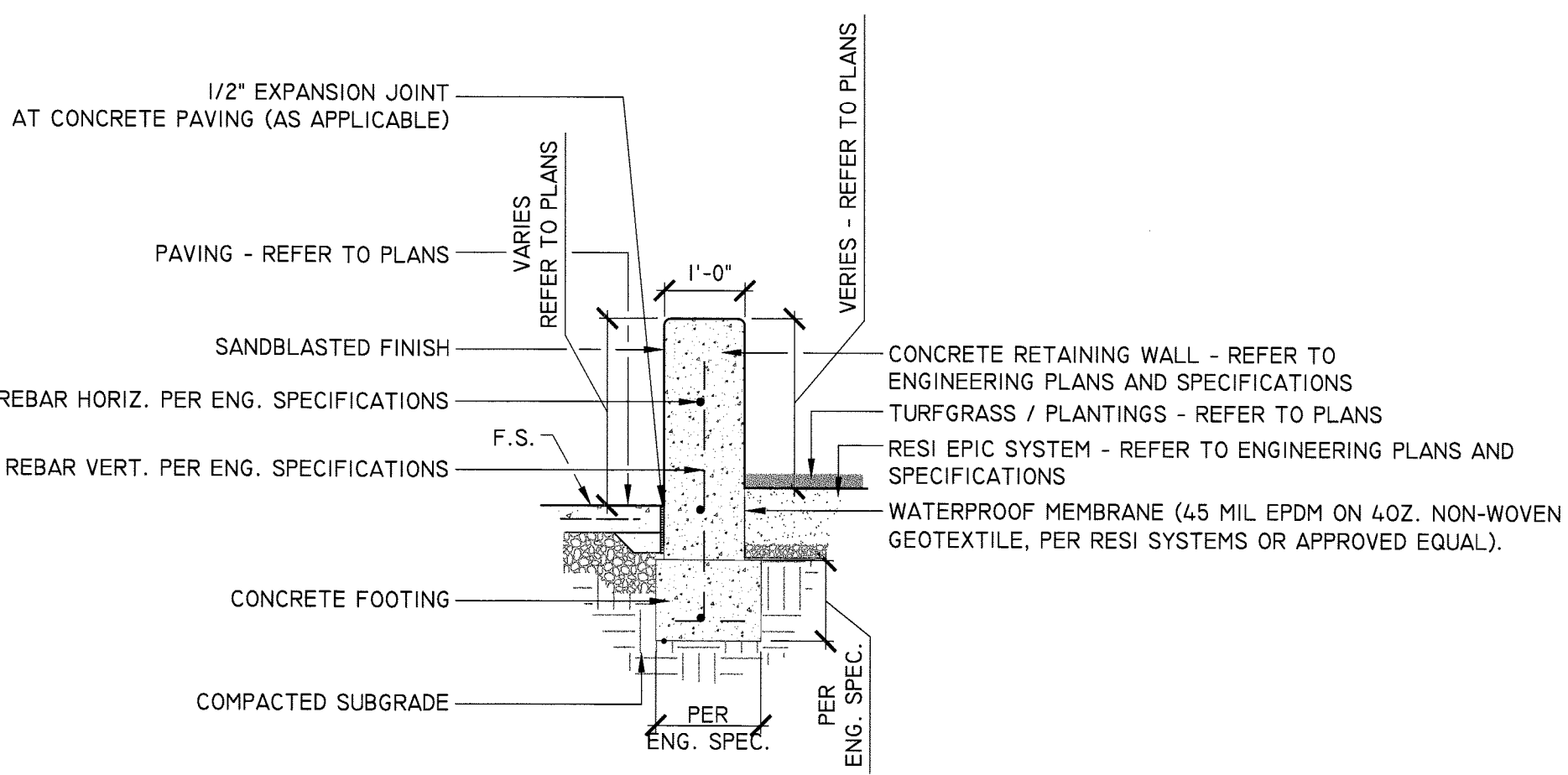
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Plotted: Jan 18, 2012

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Date: 24 MARCH, 2011

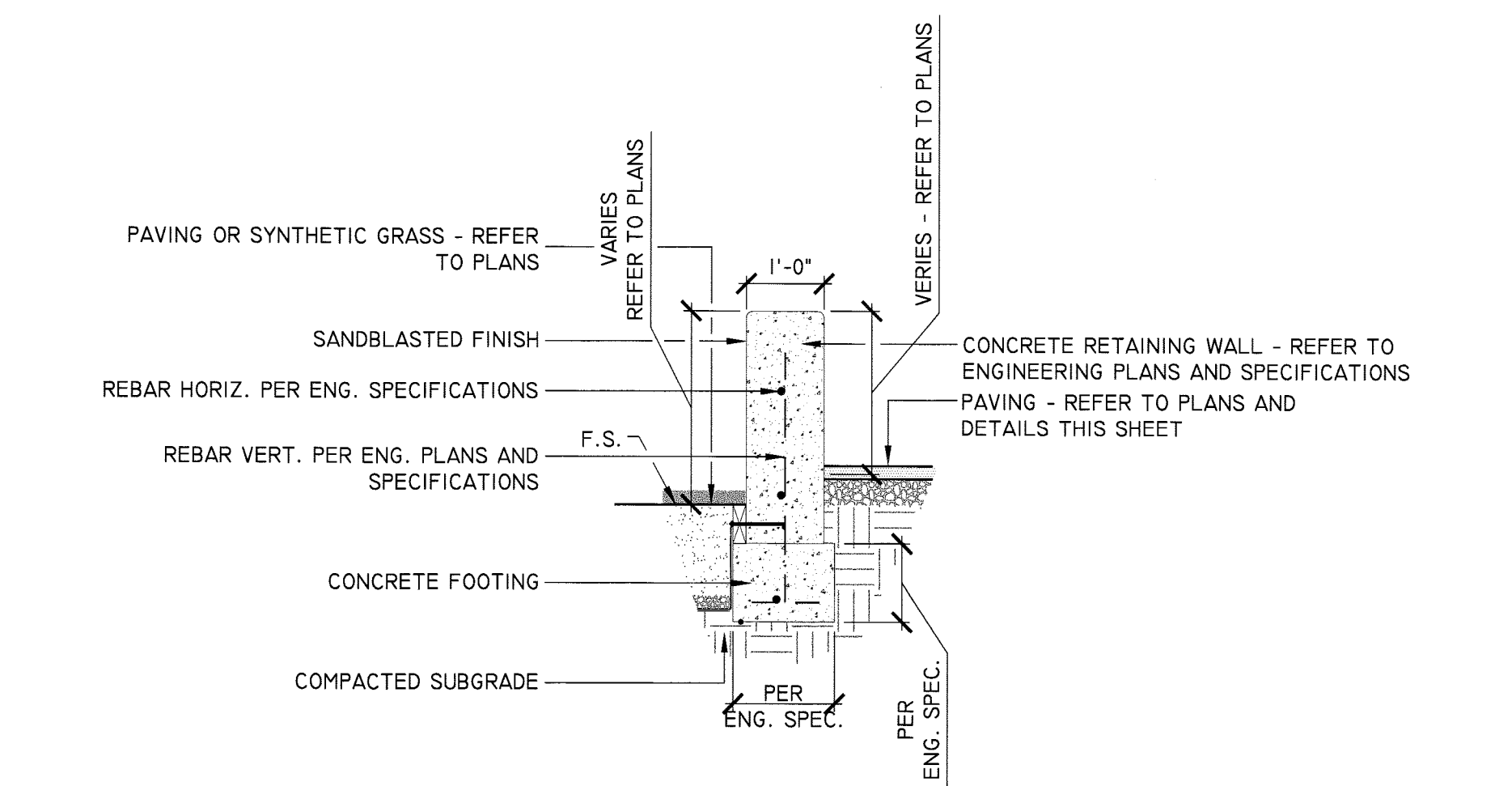
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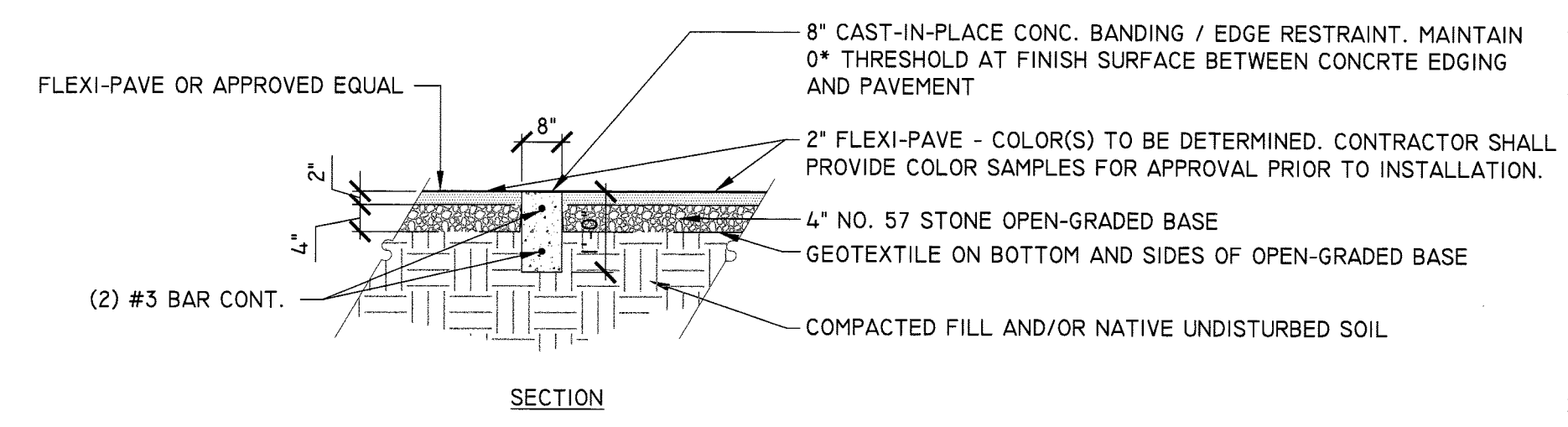
3 CRUSHER FINES / SYNTHETIC TURF CONDITION
FILE LOCATION
1/4" = 1'-0"



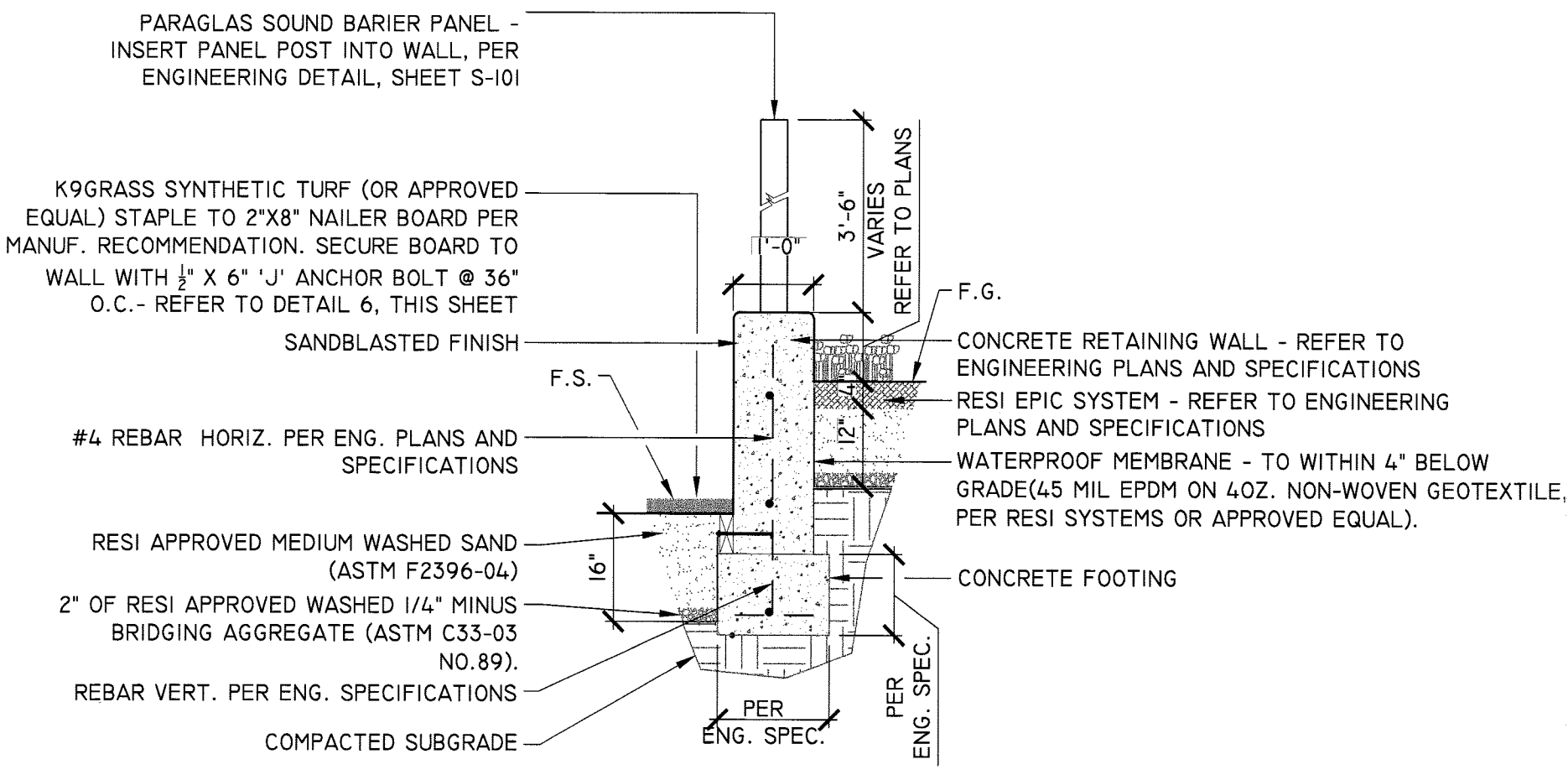
6 LAWN AREA RETAINING WALL SECTION
FILE LOCATION
SCALE: 1/2" = 1'-0"



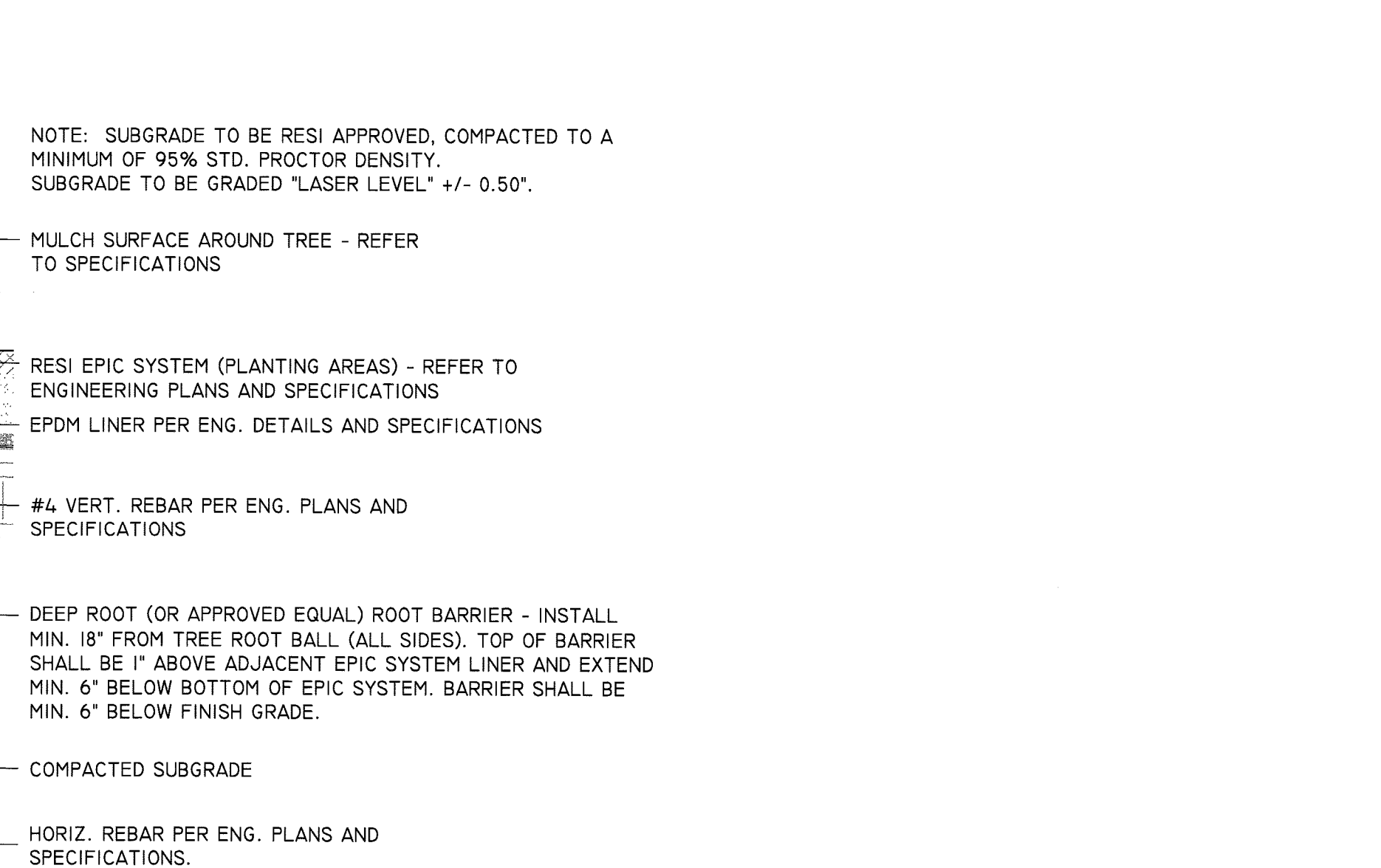
8 CCA RETAINING WALL SECTION
FILE LOCATION
SCALE: 1/2" = 1'-0"



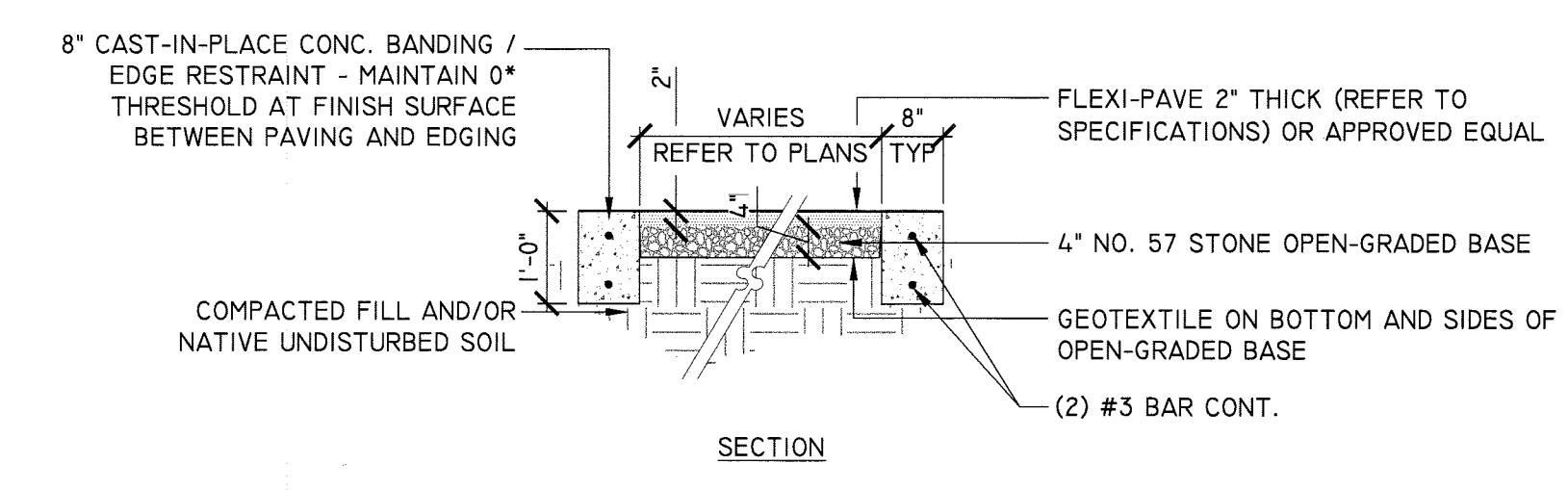
2 CONCRETE BANDING / EDGE RESTRAINT
DESIGN/CAD/CDS/DETAILS
1/2" = 1'-0"



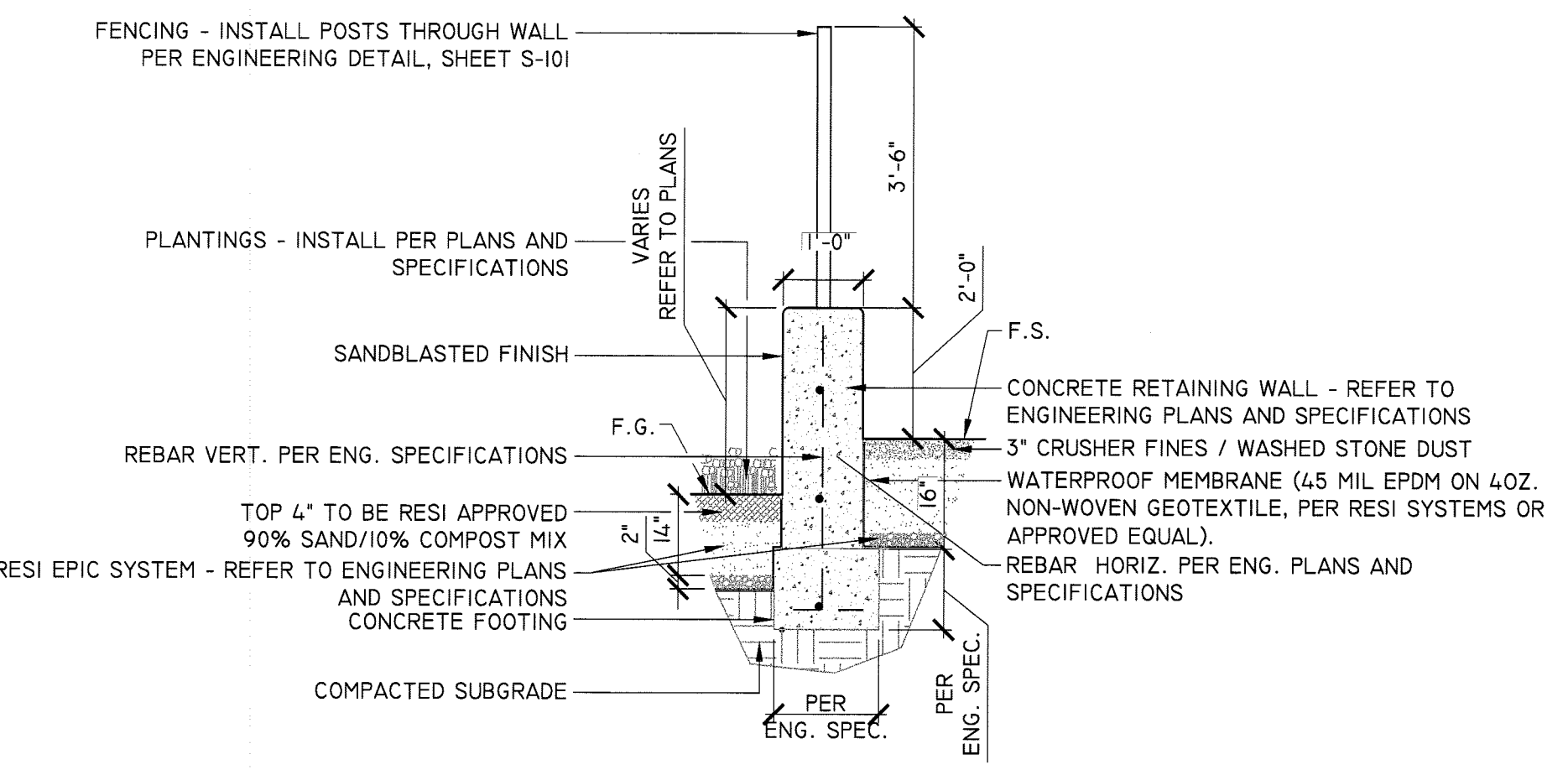
5 COMBO PARAGLAS / RETAINING WALL SECTION
FILE LOCATION
1/4" = 1'-0"



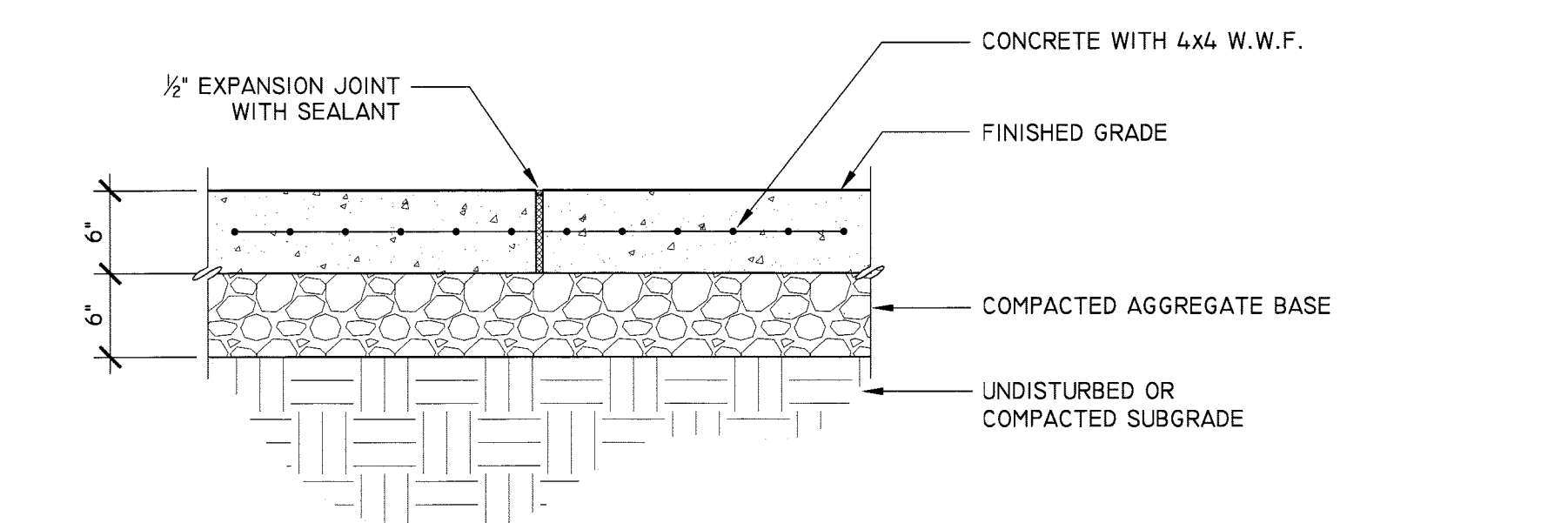
7 CURVALINEAR SEATWALL AND TREE PLANTING
SECTION
FILE LOCATION
1/4" = 1'-0"



1 PERVIOUS PAVEMENT
DESIGN/CAD/CDS/DETAILS
1/2" = 1'-0"

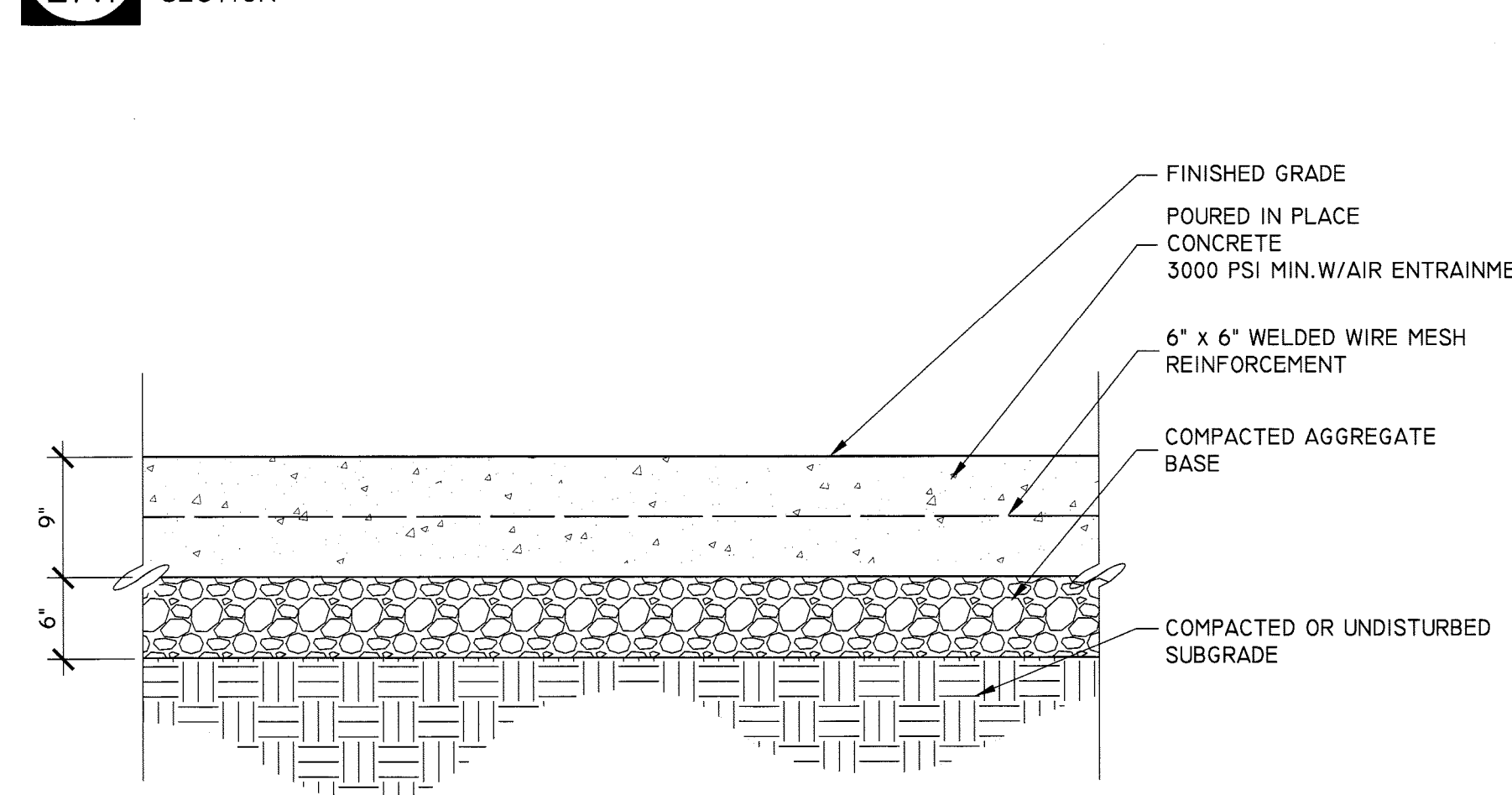


4 COMBO FENCE / RETAINING WALL SECTION
DESIGN/CAD/CDS/DETAILS
1/2" = 1'-0"



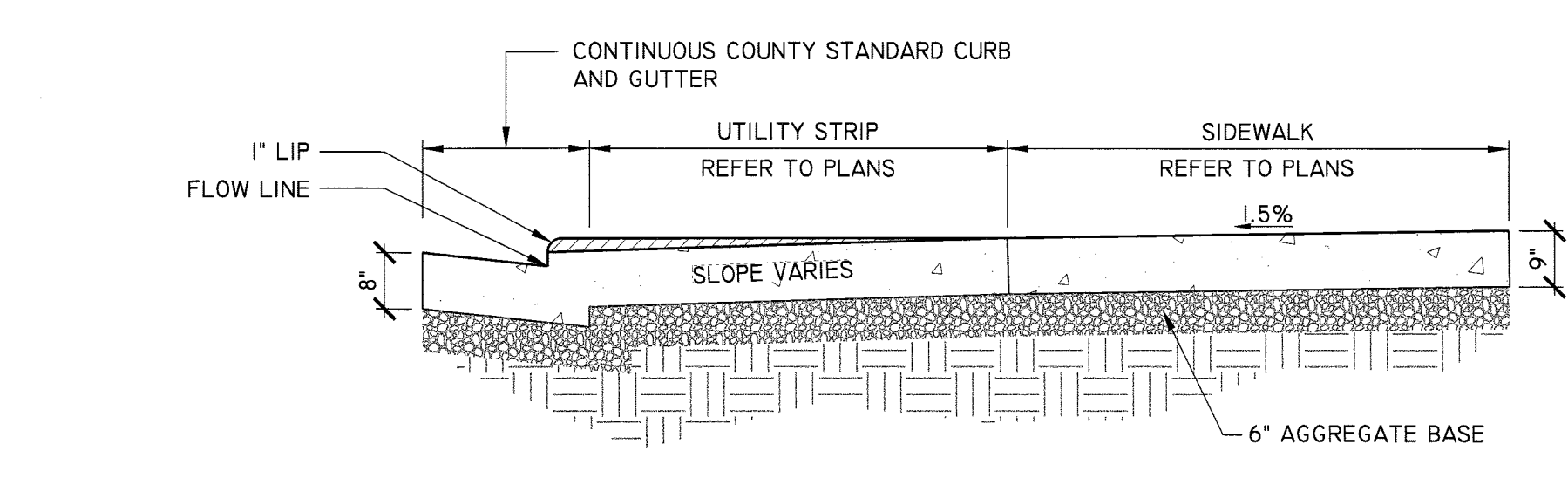
- NOTES:**
1. PROVIDE EXPANSION JOINTS EVERY 20' O.C. (UNLESS OTHERWISE SHOWN) AND AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, EXISTING PAVEMENTS, ETC.
 2. PROVIDE CONTROL JOINTS EVERY 5' O.C. OR AS SHOWN ON THE PLANS.
 3. EXPANSION JOINTS SHALL BE SEALED WITH SEALANT. COLOR TO MATCH COLOR OF CONCRETE.
 4. FINISH IN ACCORDANCE WITH VDOT 404.07, SIDEWALK FINISH.
 5. DISTURBED LAWN AREAS ADJACENT TO CONCRETE PAVEMENT SHALL BE BACKFILLED AND SEEDDED AS DESCRIBED IN SPECIFICATIONS.

10 REINFORCED CONCRETE PAVEMENT (6" THICKNESS) (REVISED 1.2009) 02751.2
SECTION L7.1 SECTION 1"=1'-0"

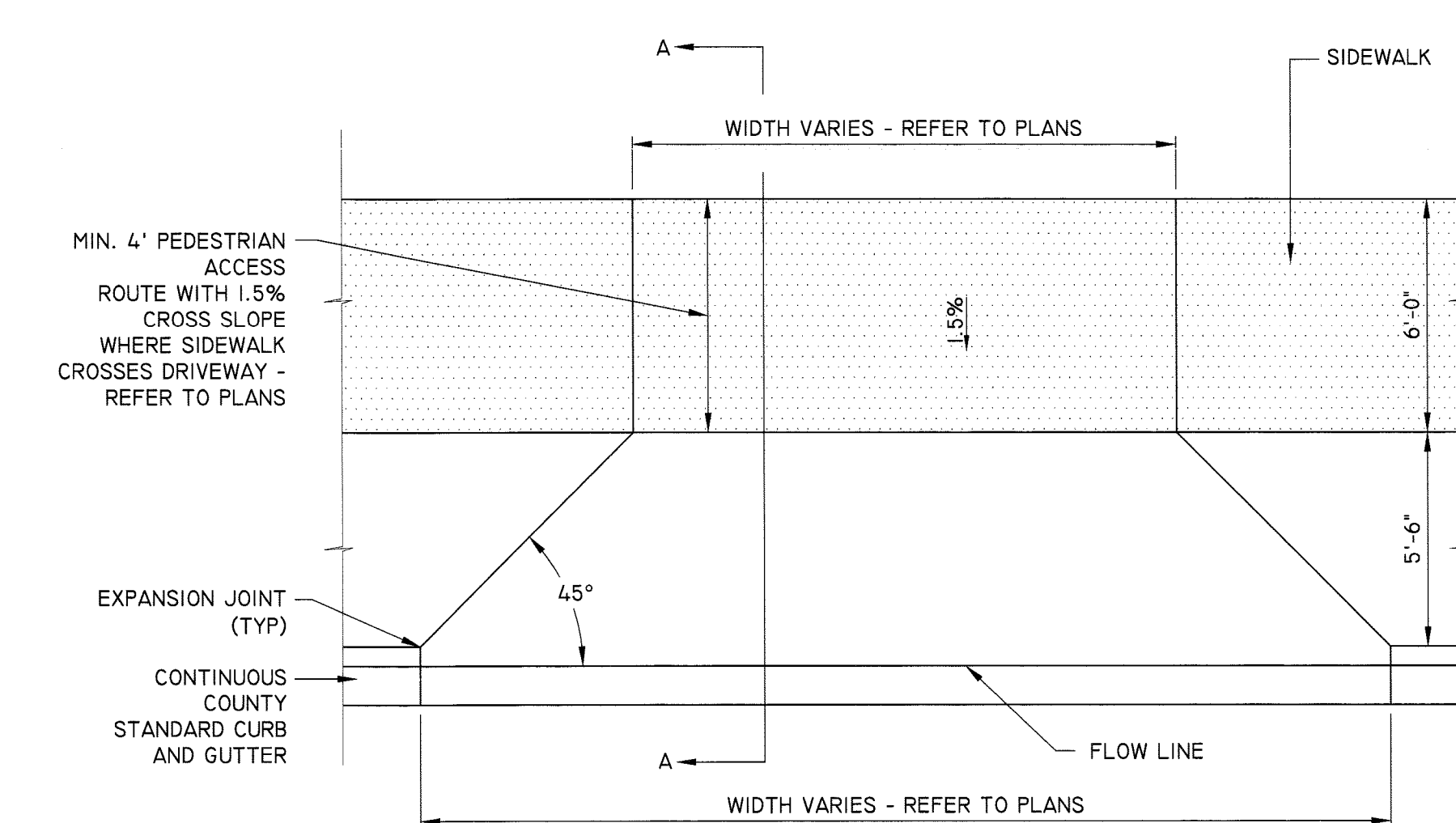


- NOTES:**
1. PROVIDE EXPANSION JOINTS AS SHOWN ON PLANS, 30' O.C. MAXIMUM AND WHERE NEW WORK JOINS EXISTING OR AROUND HARD OBJECTS SUCH AS HYDRANTS, MANHOLE COVERS, ETC.
 2. PROVIDE CONTROL JOINTS AS SHOWN ON PLANS, 10' O.C. MAXIMUM.

11 CONCRETE DRIVEWAY 02751.3
SECTION L7.1 SECTION 1"=1'-0"

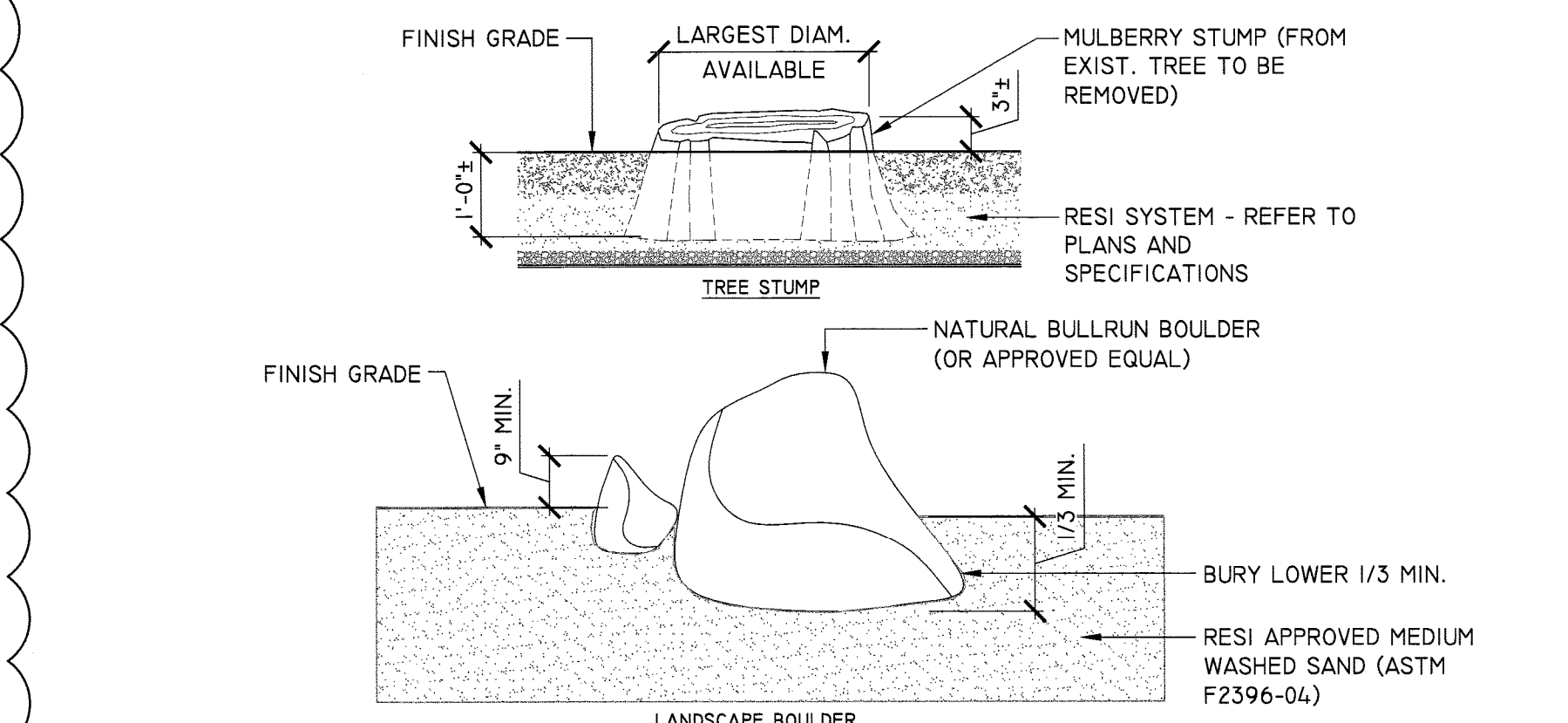


SECTION A-A



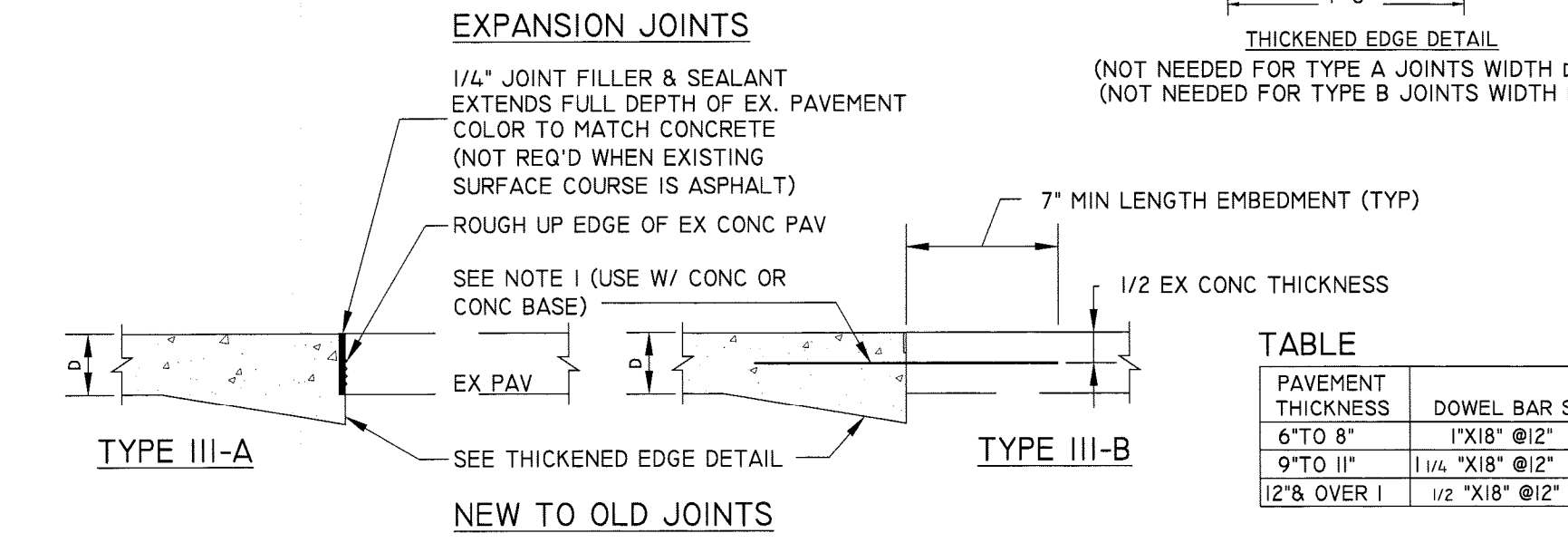
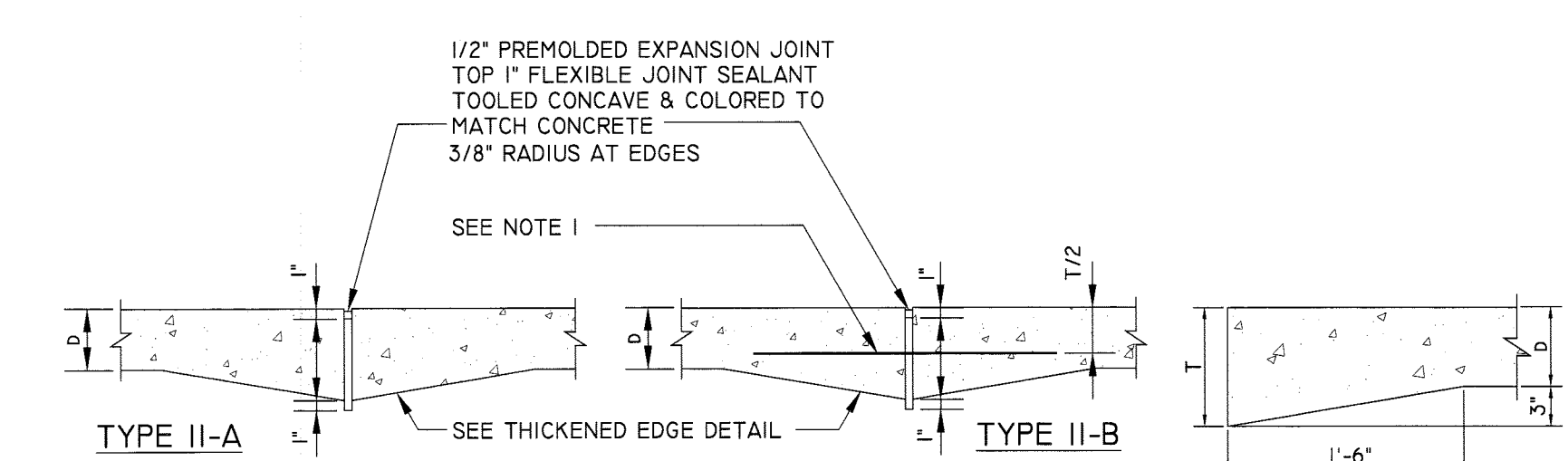
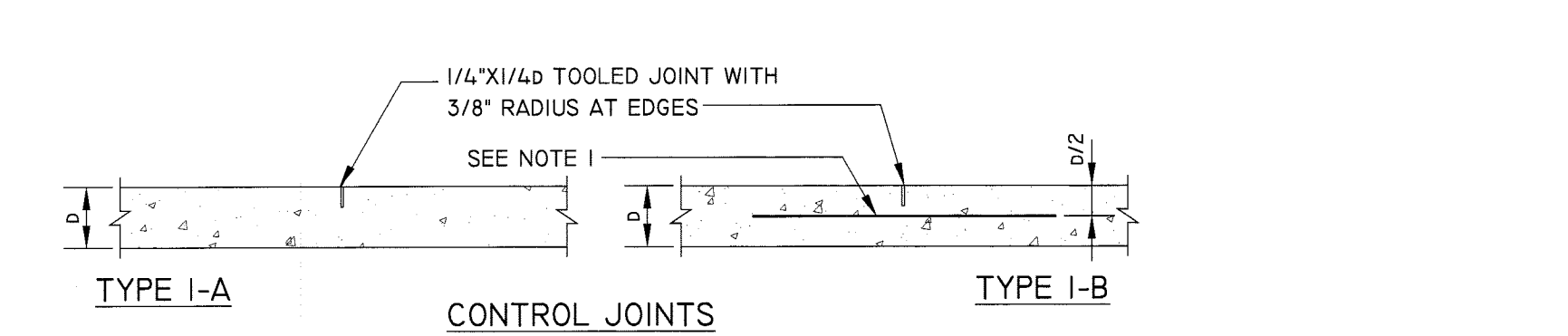
NOTE: DRIVEWAY ENTRANCE SHALL COMPLY WITH ARLINGTON COUNTY STANDARD H-3.1 AND ALL APPLICABLE CODES.

12 CONCRETE DRIVEWAY ENTRANCE N.T.S.
SECTION L7.1 SECTION



- NOTES:**
1. ALL STUMPS TO BE A MINIMUM 15 INCHES HIGH WITH 2-3 INCHES ABOVE GROUND.
 2. STUMPS SHALL BE CUT FROM EXISTING MULBERRY TREE TO BE REMOVED AND PLACED ACCORDING TO PLANS. CONTACT PATRICK WEGENG @ 571.220.1374 FOR ALTERNATE STUMP MATERIAL, SHOULD THE MULBERRY BE ROTTED OUT.
 3. ALL BOULDERS TO BE A MINIMUM 15 INCHES HIGH WITH MIN. 9 INCHES ABOVE GROUND.
 4. BOULDERS AVAILABLE AT BULL RUN QUARRIES (703) 753-2222.

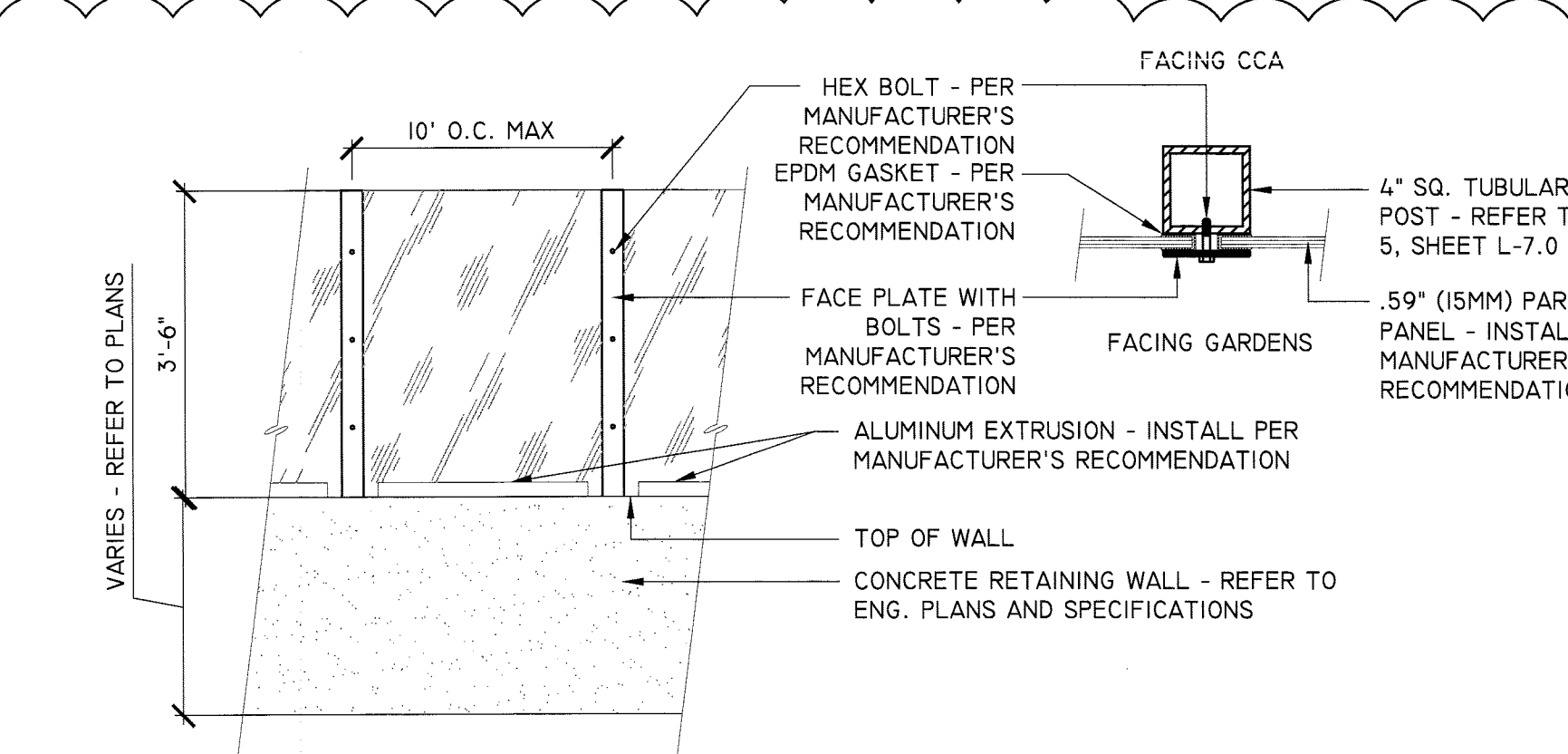
15 TREE STUMP / LANDSCAPE BOULDER FILE LOCATION
SECTION L7.1 SECTION SCALE: 1/2" = 1'-0"



PAVEMENT THICKNESS	DOWEL BAR SIZE
6" TO 8"	1" X 18" @ 12"
9" TO 11"	1 1/4" X 18" @ 12"
12" & OVER	1 1/2" X 18" @ 12"

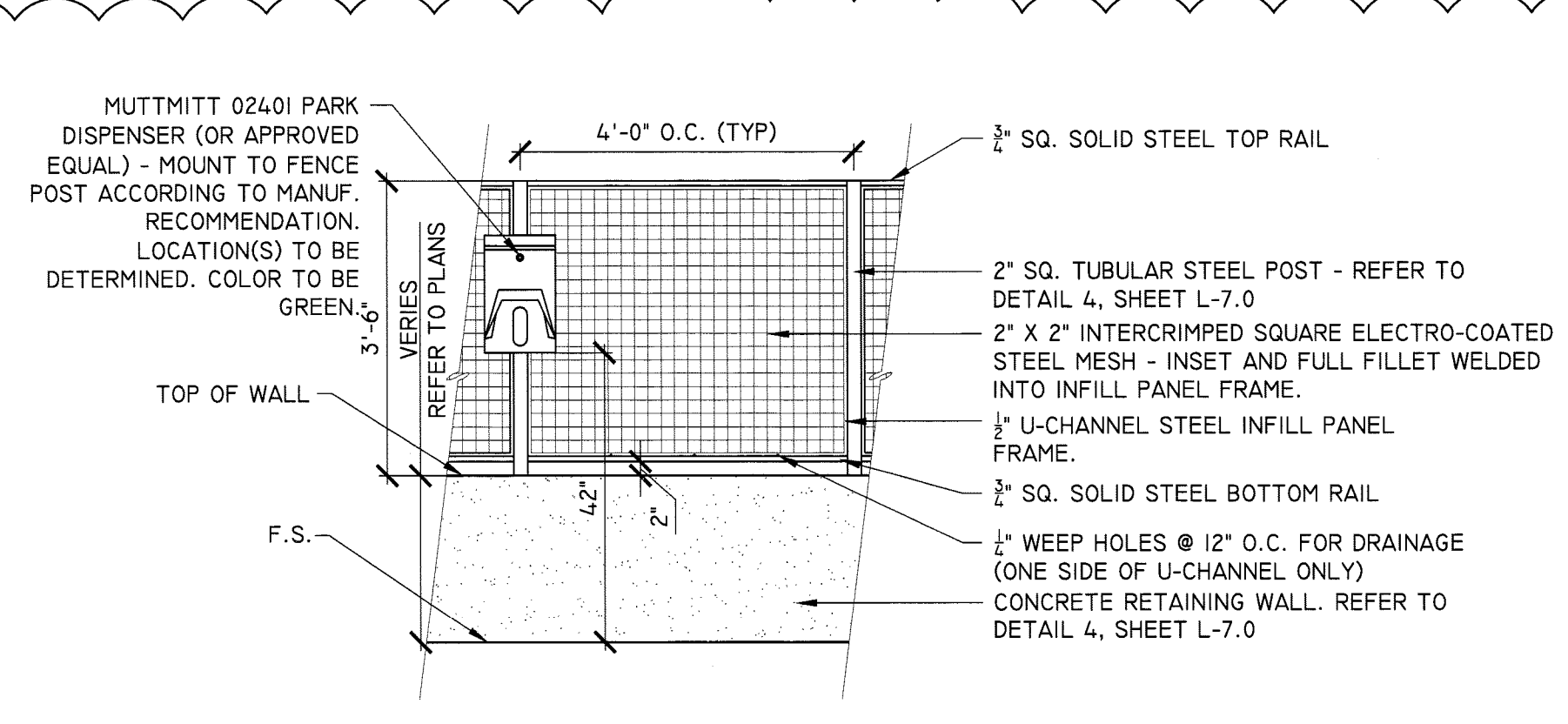
- NOTES:**
1. WHERE REQUIRED AT TRANSVERSE JOINTS, DOWEL BARS SHALL BE SIZED AS SHOWN IN THE TABLE. SMOOTH ROUND GRADE 60 OR BETTER WITH ENDS WRAPPED IN TAR PAPER.
 2. TRANSVERSE JOINT SPACE SHALL NOT EXCEED SPACING INDICATED IN PLANS. THE AREA OF THE PAVEMENT PANEL SHALL NOT EXCEED 225 SQUARE FEET.
 3. JOINT OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1'-6" LONG.
 4. JOINT INTERSECTION ANGLES OF LESS THAN 60 DEGREES SHALL BE USED.
 5. WHEN A JOINT IS CLOSER THAN 1'-0" TO A CASTING, THEN A MINOR ADJUSTMENT IN THE JOINT LOCATION SHOULD BE MADE BY SKEWING OR SHIFTING THE JOINT ALIGNMENT TO MEET THE CASTING AT 90° OR NORMAL TO THE CASTING.
 6. DOWEL BARS SHALL NOT BE PLACED WITHIN 1'-0" OF THE EDGE OF PAVEMENT OR A PARALLEL JOINT.

9 CONCRETE PAVING JOINT DETAILS NOT TO SCALE
SECTION L7.1 SECTION



- NOTE:**
1. TUBULAR STEEL POSTS TO BE MINIMUM WALL THICKNESS OF 0.25". TOP, INTERMEDIATE, AND BOTTOM RAILS AND POSTS TO BE MIN. WALL THICKNESS OF 0.1196". ALL WELDS SHALL BE GROUND SMOOTH PER A.N.S.I. / A.W.S D.I.1.81. ALL HARDWARE TO BE GALVANIZED OR STAINLESS STEEL, UNLESS OTHERWISE SPECIFIED. POWDER COAT ALL STEEL AS PER THE SPECIFICATIONS. COLOR SHALL BE "SILVER". CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE PROJECT OFFICER, PRIOR TO FABRICATION.
 2. INSTALL PARAGLAS PANELS PER MANUFACTURER'S RECOMMENDATION. REFER TO TYPICAL WALL SECTION @ PARAGLAS POST DETAIL, SHEET S-101 FOR ADDITIONAL INFORMATION.

13 COMBO PARAGLAS / RETAINING WALL ELEVATION 1/2" = 1'-0"
ELEVATION L7.1 ELEVATION

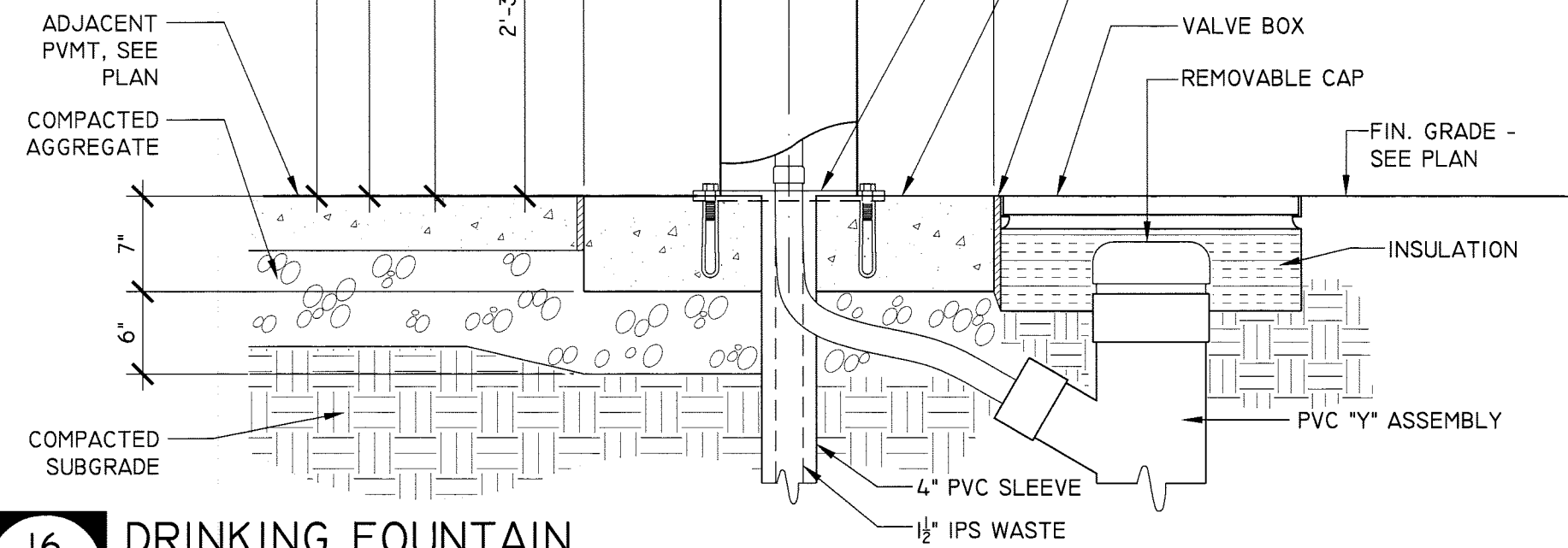


- NOTE:**
1. TUBULAR STEEL POSTS TO BE MINIMUM WALL THICKNESS OF 0.25". TOP, INTERMEDIATE, AND BOTTOM RAILS AND POSTS TO BE MIN. WALL THICKNESS OF 0.1196". ALL STEEL TO BE GALVANIZED CORROSION RESISTANT STEEL. ALL WELDS SHALL BE GROUND SMOOTH PER A.N.S.I. / A.W.S D.I.1.81. POWDER COAT ALL MATERIALS AS PER THE SPECIFICATIONS. COLOR SHALL BE "SILVER". CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE PROJECT OFFICER, PRIOR TO FABRICATION.

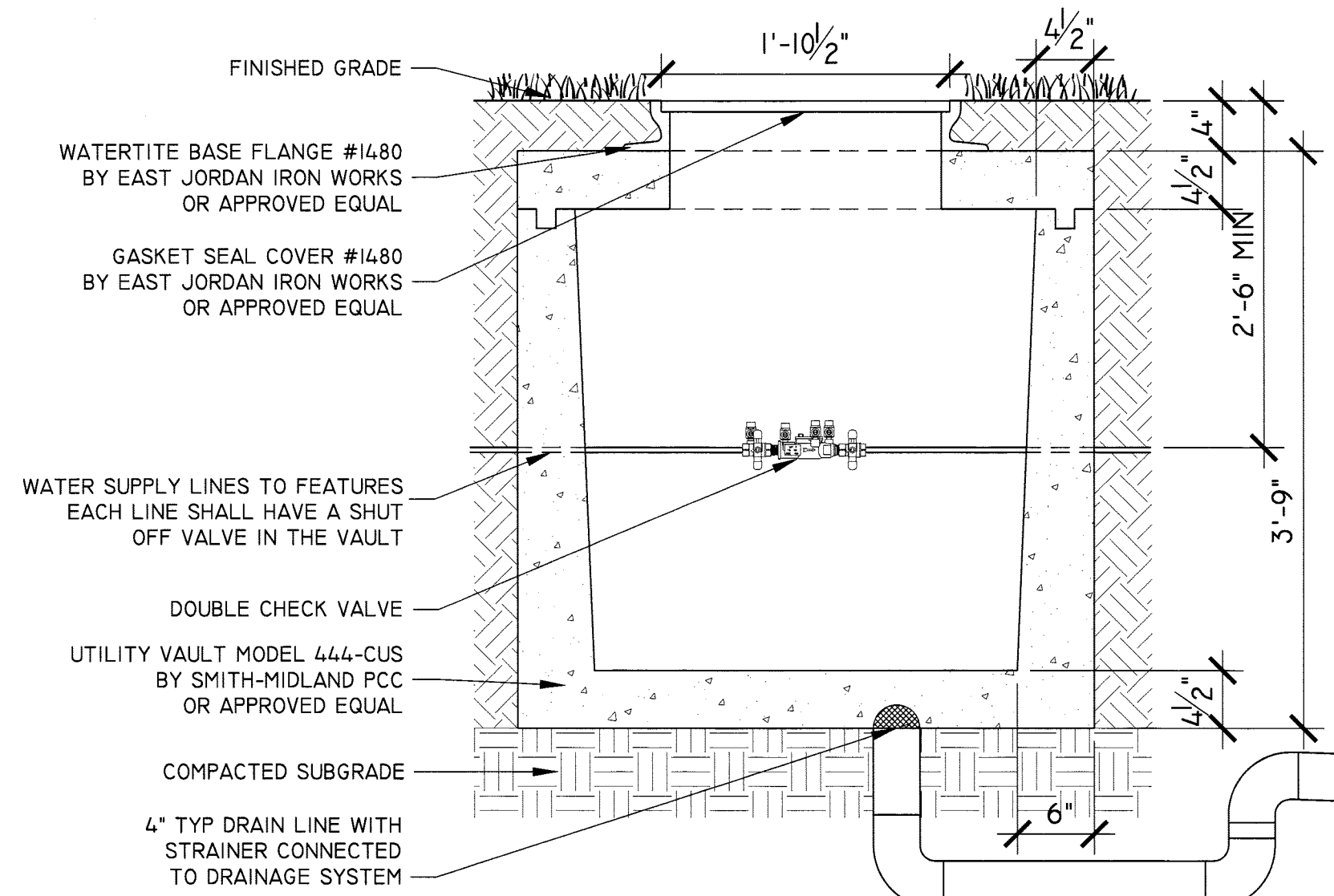
14 COMBO FENCE / RETAINING WALL ELEVATION 1/2" = 1'-0"
ELEVATION L7.1 ELEVATION

NOTES:

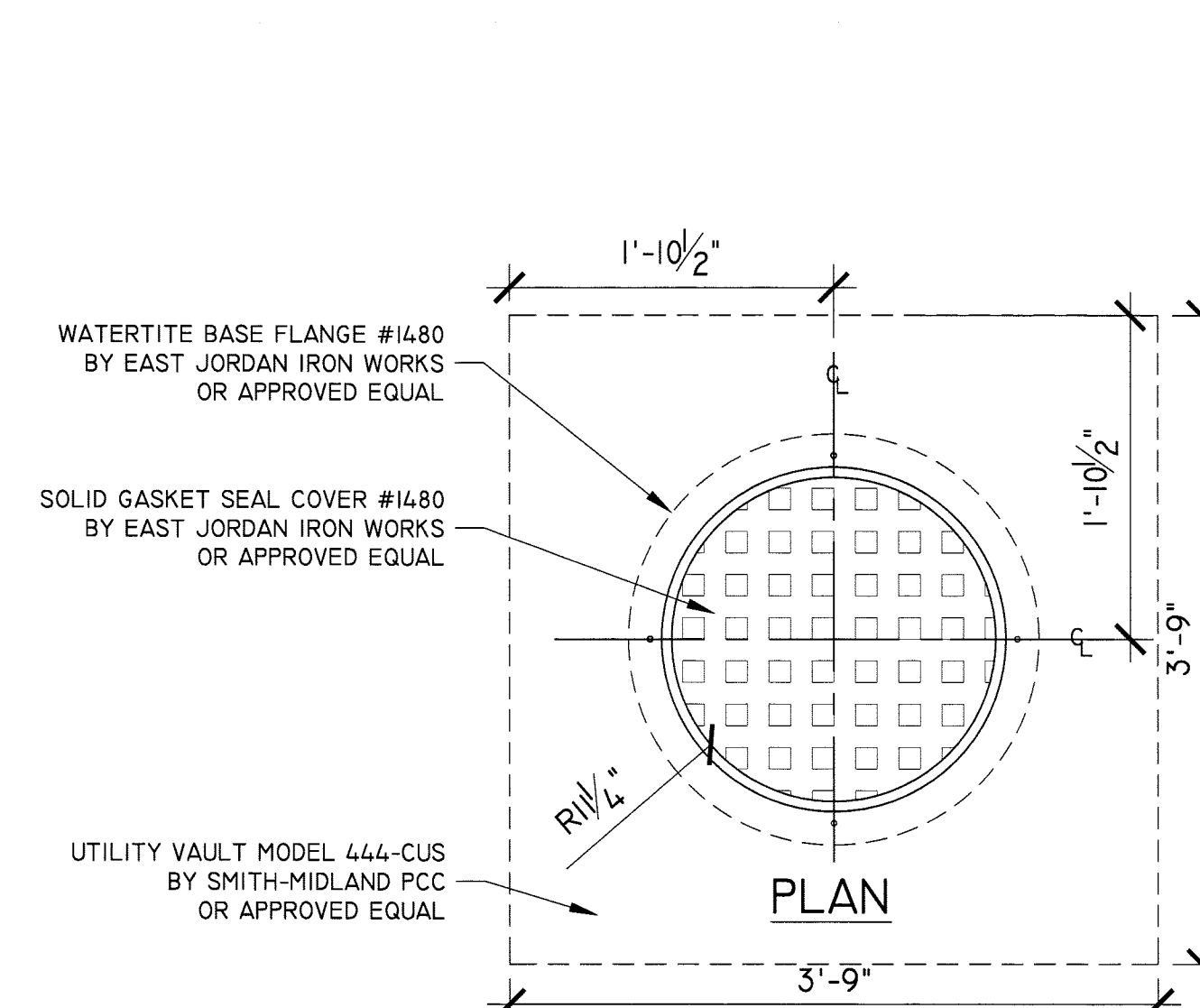
1. FOUNTAIN SHALL DRAIN INTO EPIC SYSTEM, PER ENG. PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL LOCATE AND TIE INTO EXIST. MAIN LINE.
3. SEE DETAIL 19, THIS SHEET, FOR VAULT INFO.
4. CONTRACTOR SHALL INSTALL DOUBLE CHECK VALVE. ALL PLUMBING TO BE FREEZE-RESISTANT.



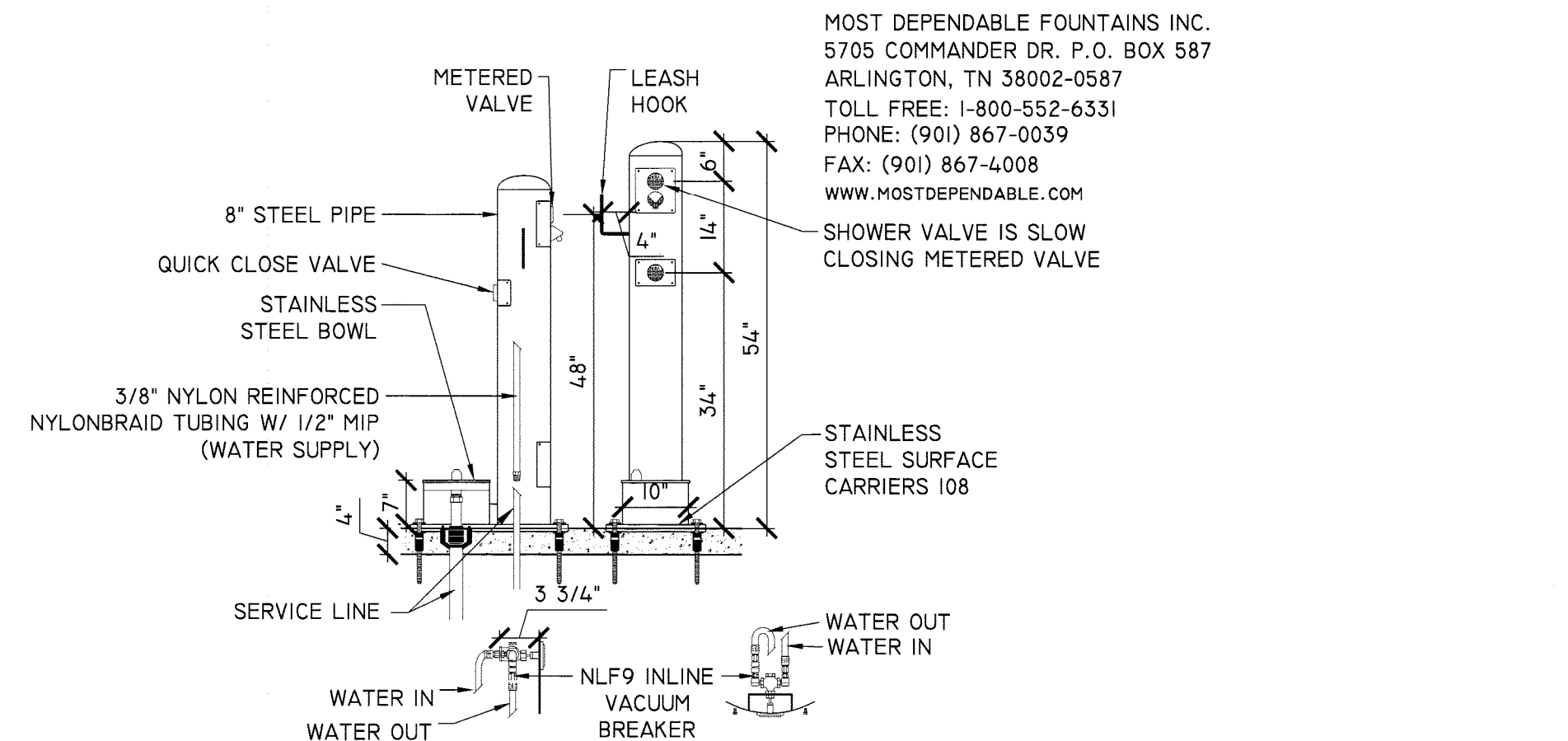
16 DRINKING FOUNTAIN
L7.2 SECTION 1"=1'-0"



17 DOUBLE CHECK VALVE, SHUT OFF VALVES & VAULT
L7.2 SECTION 1"=1'-0"

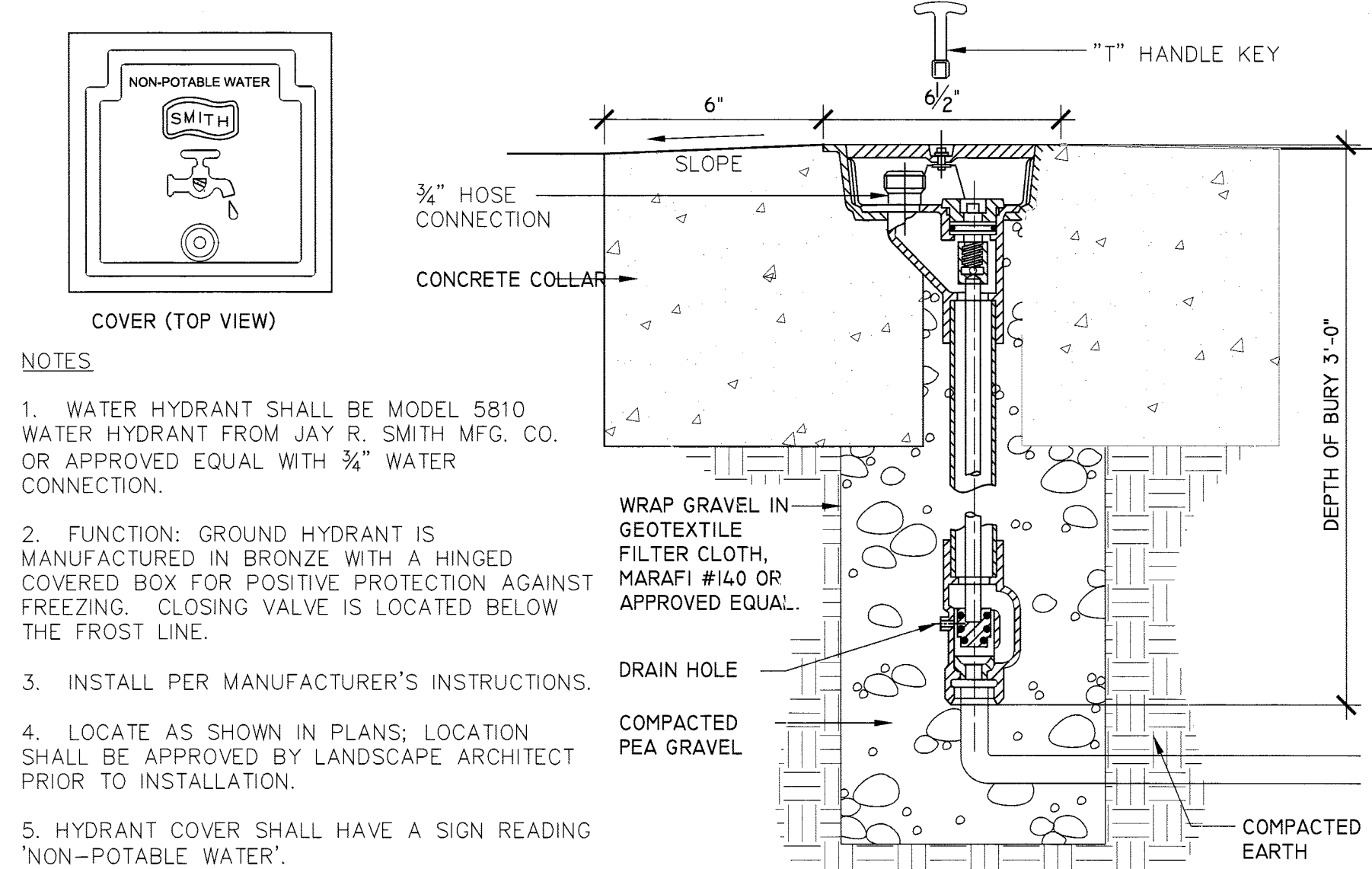


18 DOUBLE CHECK VALVE, SHUT OFF VALVES & VAULT
L7.2 PLAN 1"=1'-0"



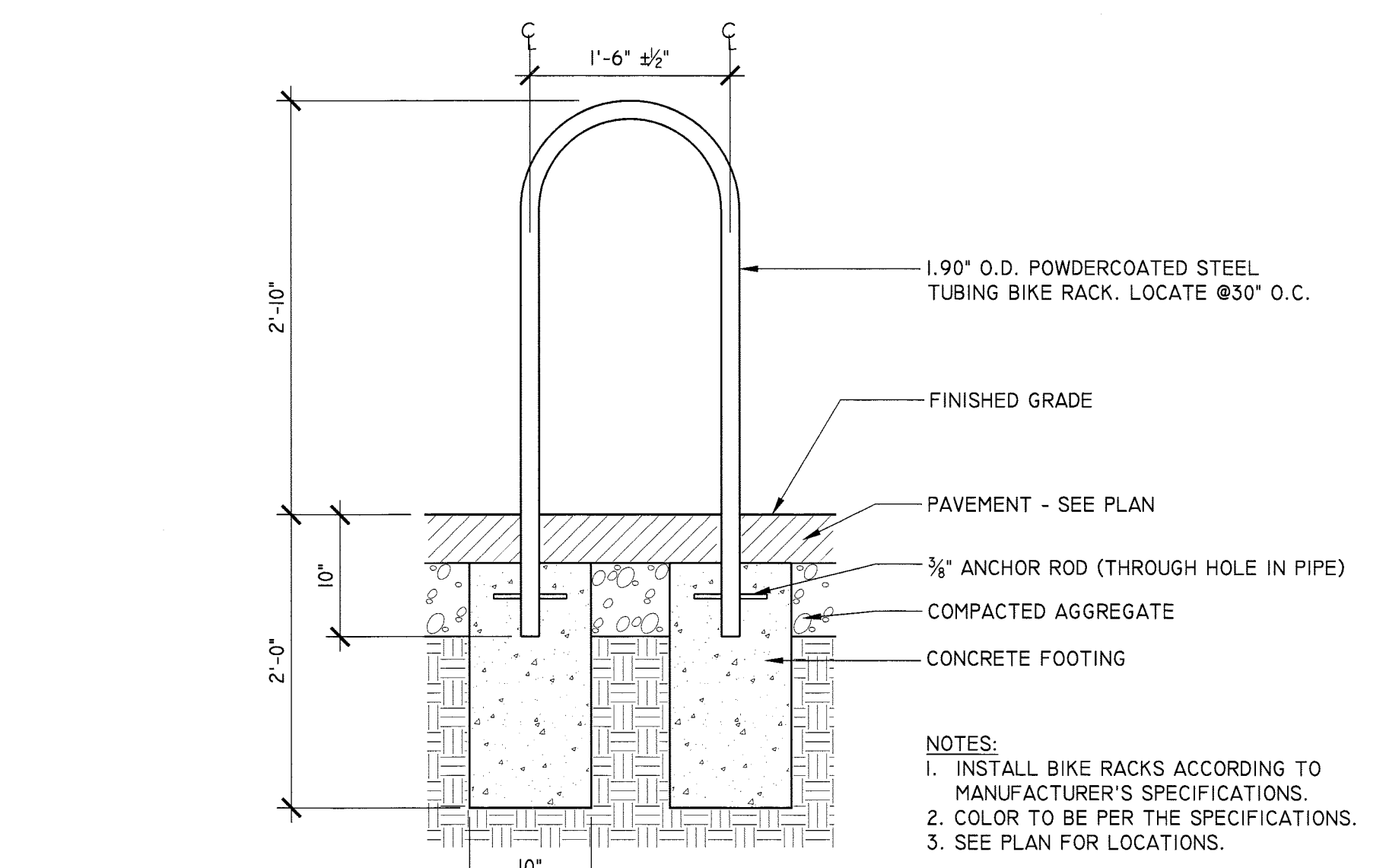
- NOTES:**
1. COLOR SHALL BE SILVER
 2. INSTALLATION TO BE FREEZE-RESISTANT AND COMPLETED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
 3. PET FOUNTAIN IS PROVIDED WITH AN INLINE VACUUM BREAKER PLUS A 1 GPM FLOW RESTRICTOR.
 4. SHOWN WITH STAINLESS STEEL SURFACE CARRIER 108.

19 MODEL 325 SM PET COMFORT STATION W/ SURFACE CARRIER
L7.2 SECTION N.T.S.

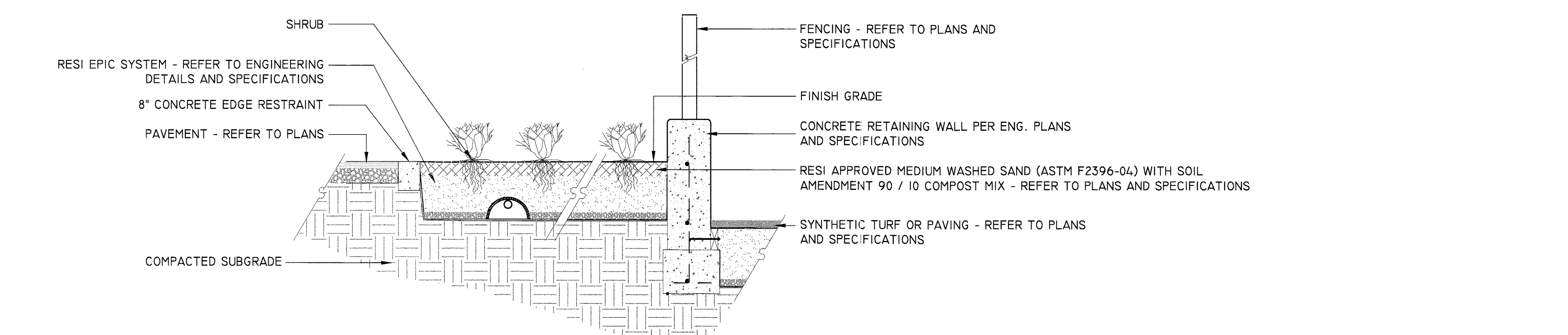


- NOTES:**
1. WATER HYDRANT SHALL BE MODEL 5810 WATER HYDRANT FROM JAY R. SMITH MFG. CO. OR APPROVED EQUAL WITH 3/4\"/>
 - 2. FUNCTION: GROUND HYDRANT IS MANUFACTURED IN BRONZE WITH A HINGED COVERED BOX FOR POSITIVE PROTECTION AGAINST FREEZING. CLOSING VALVE IS LOCATED BELOW THE FROST LINE.
 - 3. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
 - 4. LOCATE AS SHOWN IN PLANS; LOCATION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - 5. HYDRANT COVER SHALL HAVE A SIGN READING 'NON-POTABLE WATER'.

20 NON-FREEZE GROUND WATER HYDRANT
L7.2 SECTION/PLAN NOT TO SCALE

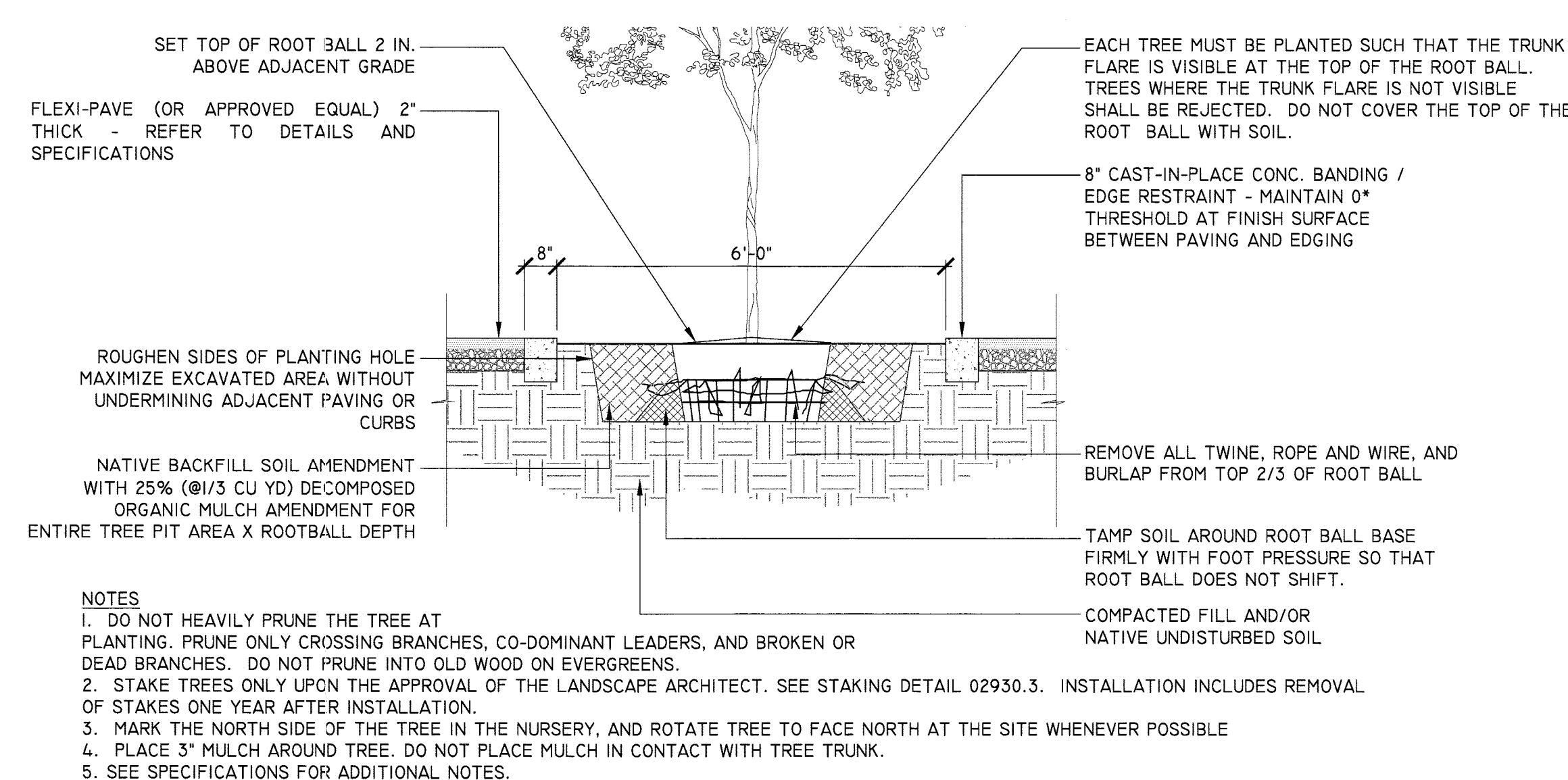


21 BIKE RACK
L7.2 SECTION 1"=1'-0"



- NOTES:**
1. SET PLANTS IN UPRIGHT, STABLE, AND UNIFORM POSITIONS. ORIENT BEST FACE OF PLANT TO BE MOST VISIBLE.
 2. FOR CONTAINERS: USE KNIFE OR SHARP SPADE TO CUT THROUGH 1/3 BOTTOM AND TWO SIDES OF CONTAINER ROOT BALL. IF ROOT OR POT BOUND, BUTTERFLY THE ROOT BALL. PARTIALLY CUT ROOT BALL ONLY IF ROOT BOUND. DO NOT CUT ENTIRELY THROUGH THE ROOT BALL.
 3. PLACE 2\"/>

22 SHRUB PLANTING
L7.2 SECTION N.T.S.



- NOTES:**
1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSING BRANCHES, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. DO NOT PRUNE INTO OLD WOOD ON EVERGREENS.
 2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. SEE STAKING DETAIL 02930.3. INSTALLATION INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.
 3. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE
 4. PLACE 3\"/>
 - 5. SEE SPECIFICATIONS FOR ADDITIONAL NOTES.

23 CCA CIRCULAR PLANTER
L7.2 SECTION 1/2" = 1'-0"



DEPARTMENT OF PARKS,
RECREATION AND
CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
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Fax: 703.228.3328

IFB # 670-12

Project Name and Location
**13th & Herndon
Park Improve-
ments**

Sheet Title
Site Details

Approvals Date
Dinaan Tisawi 1/25/12
Department Director
J. D. [Signature] 1/25/12
Park Development Division Chief
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Designed: AW
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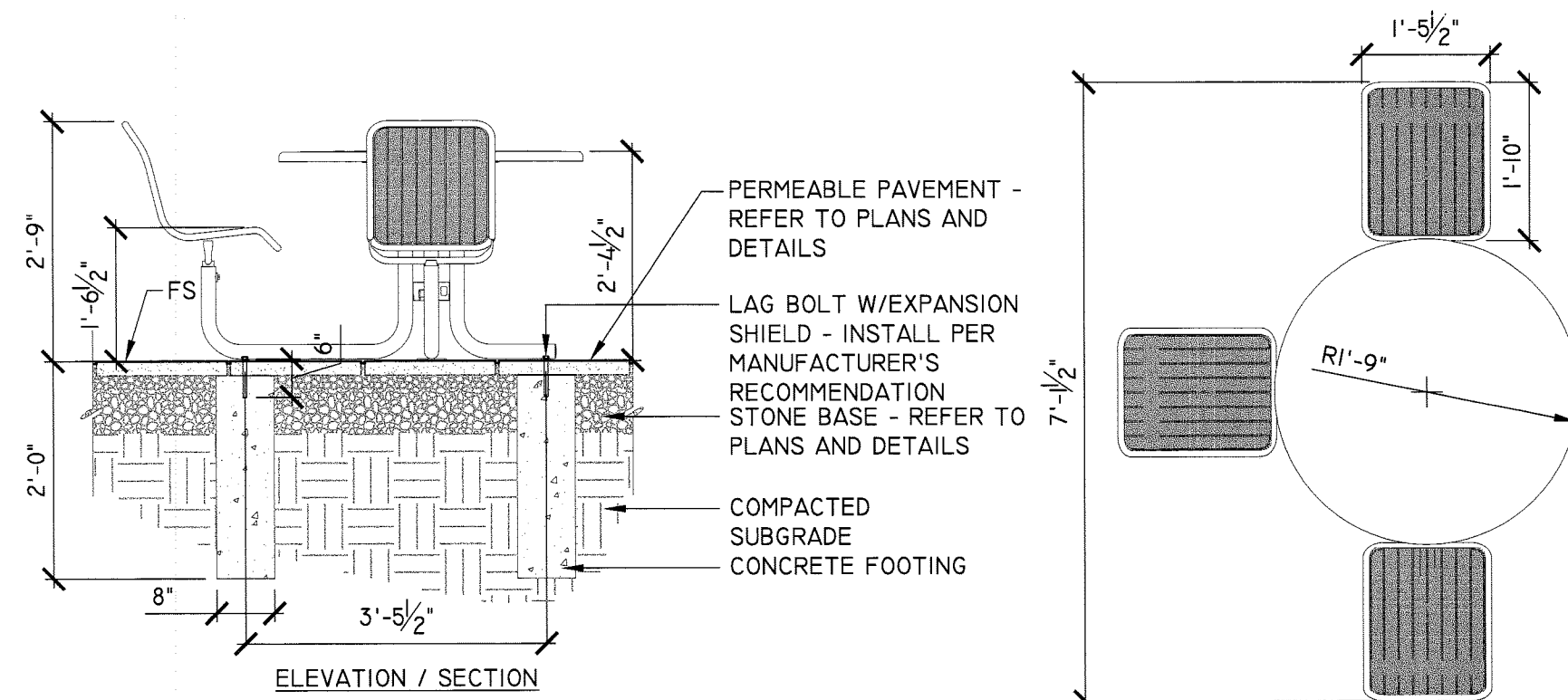
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Scale: AS SHOWN
Date: 24 MARCH, 2011

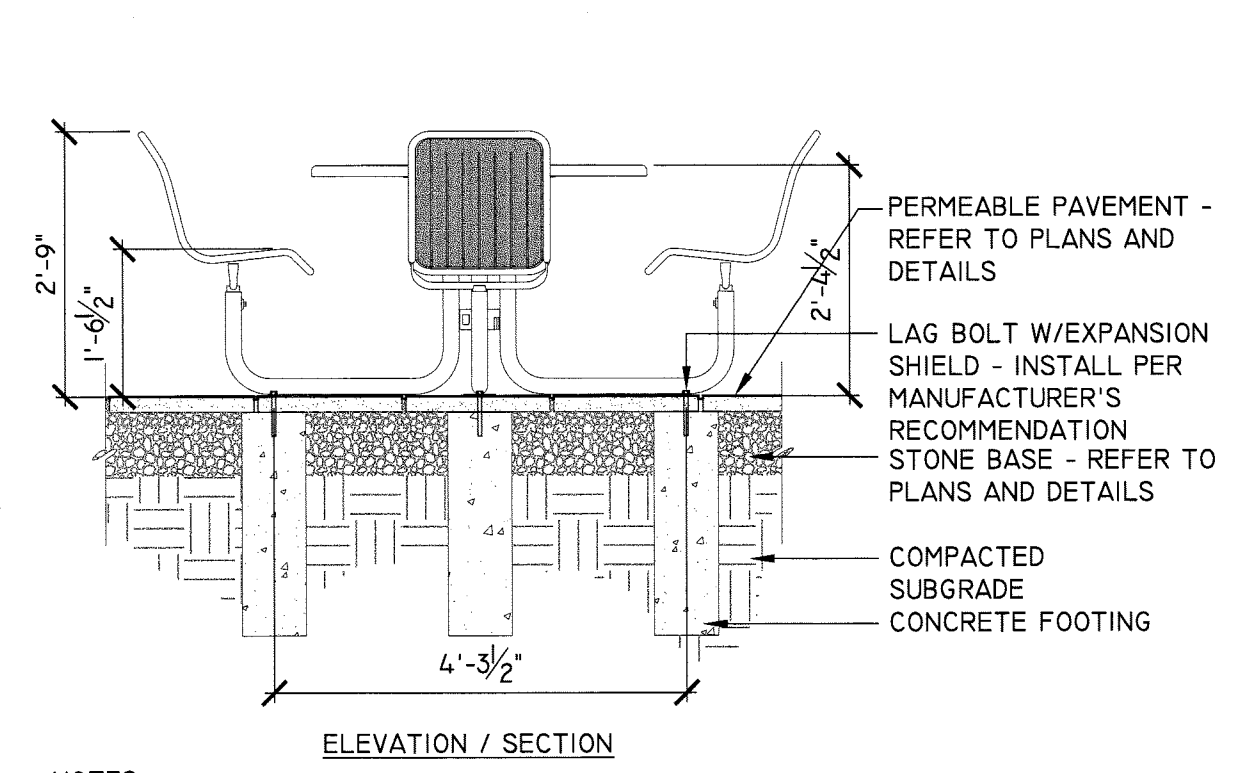
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Sheet 28 of 39

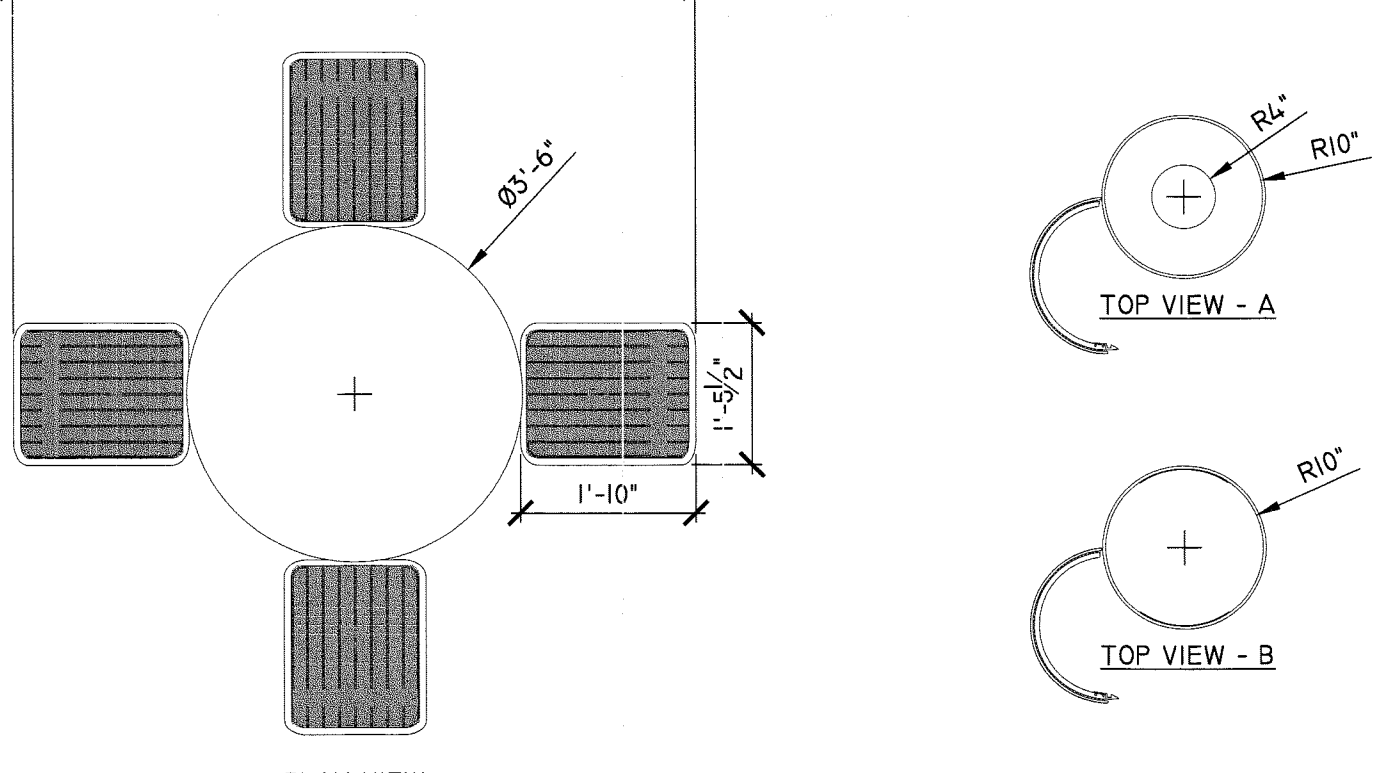
L-7.2



- NOTES:**
- TABLE SHALL BE CAROUSEL, 3 SEAT (REFER TO PLANS) SURFACE MOUNT W/BACKED GRID SEATS AND PERFORATED STEEL TABLE TOP, MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - SURFACE MOUNT TO DECKING AS NEEDED, PER MANUFACTURER'S RECOMMENDATION.



- NOTES:**
- TABLE SHALL BE CAROUSEL, 4 SEAT (REFER TO PLANS) SURFACE MOUNT W/BACKED GRID SEATS AND PERFORATED STEEL TABLE TOP, MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

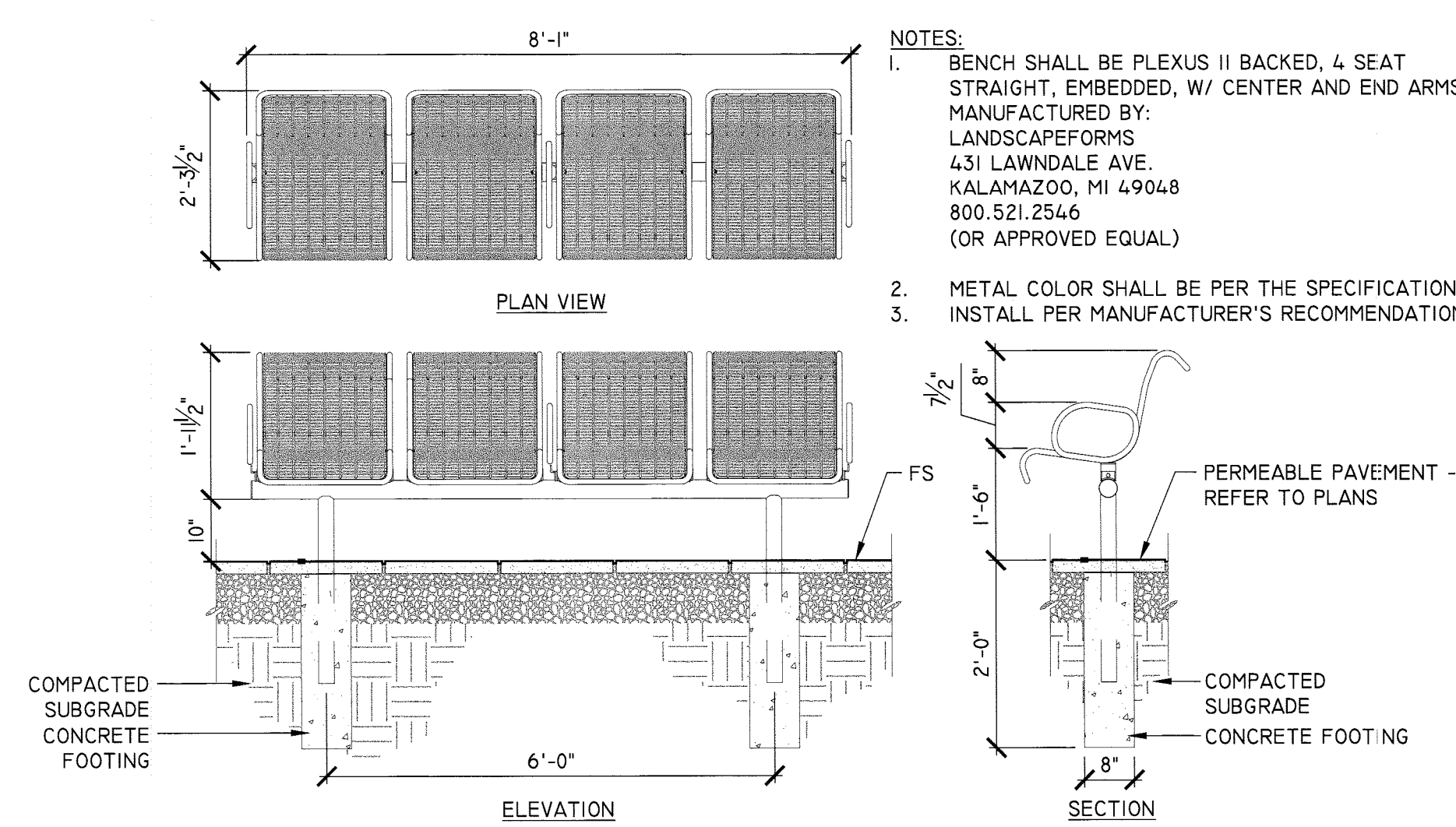


- NOTES:**
- TRASH RECEPTACLE SHALL BE PLEXUS 20" SIDE & TOP OPENING SURFACE MOUNT MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL ONE (RECYCLE - REFER TO SPECIFICATIONS) TOP (A) AND ONE SIDE (B) OPENING BIN AT EACH LOCATION, AS SHOWN ON PLANS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

24 ADA GAME / PICNIC TABLE
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"

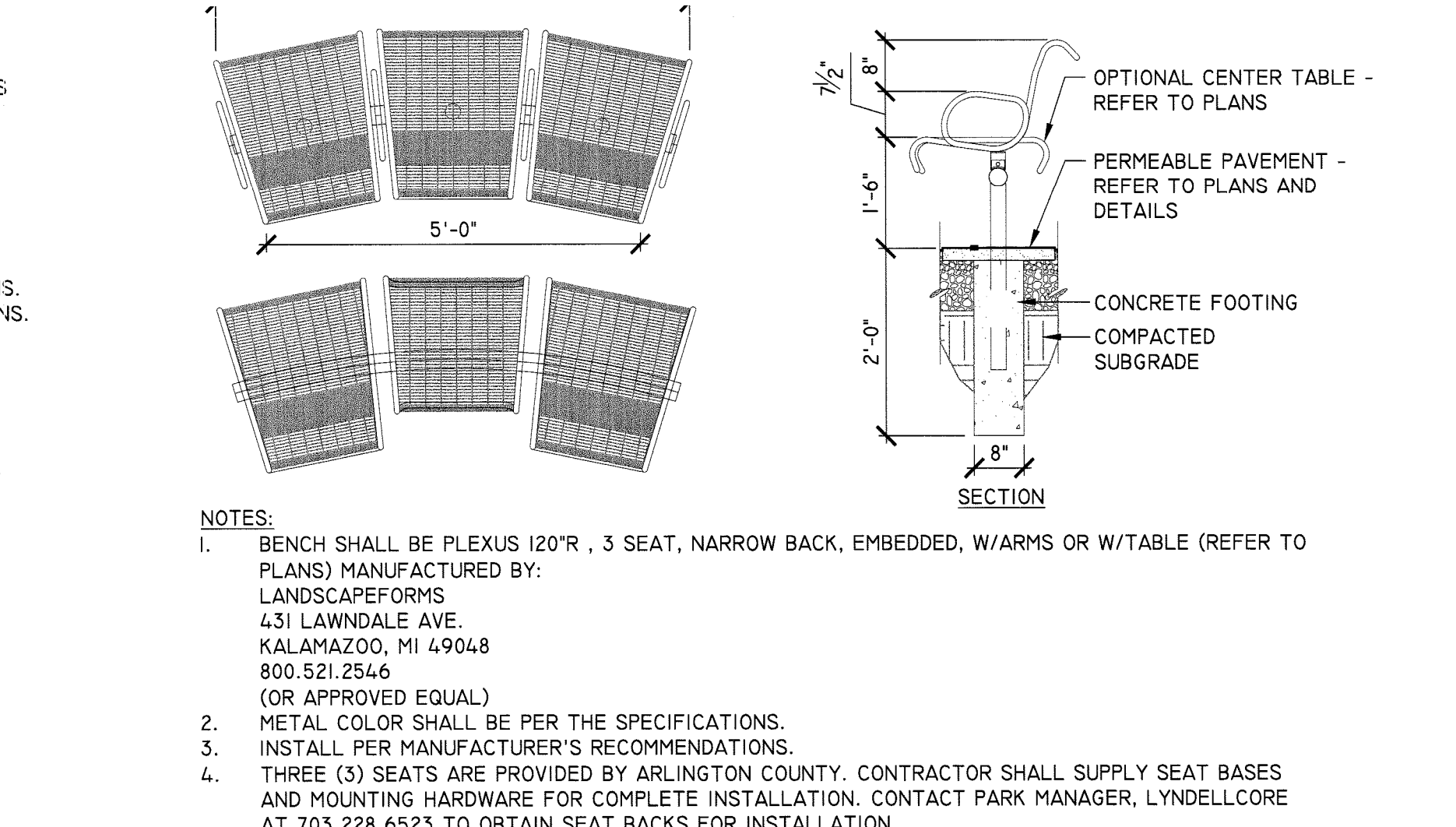
25 GAME / PICNIC TABLE
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"

26 TRASH RECEPTACLES
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



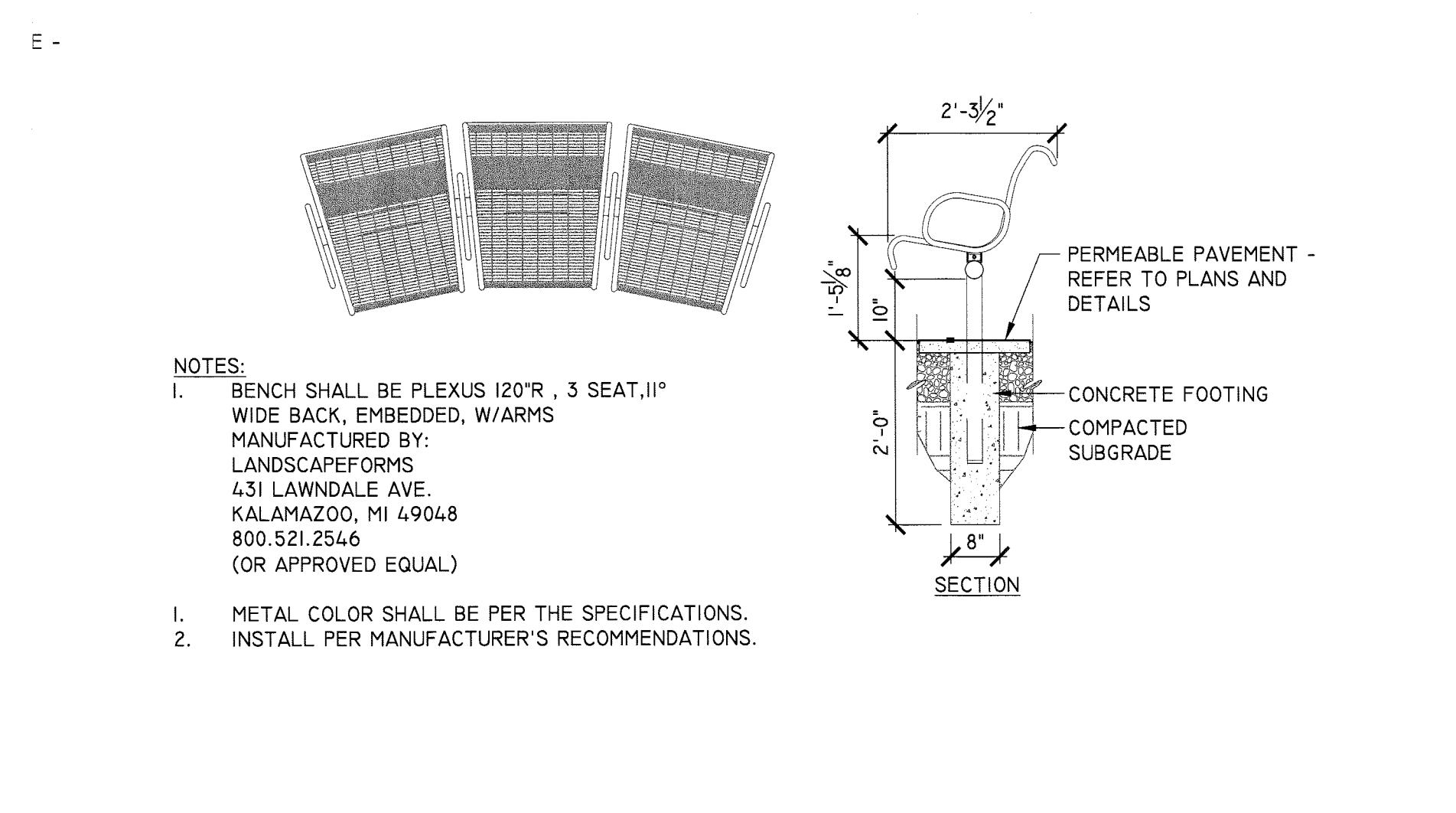
- NOTES:**
- BENCH SHALL BE PLEXUS II BACKED, 4 SEAT STRAIGHT, EMBEDDED, W/ CENTER AND END ARMS MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

27 4 SEAT BENCH
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



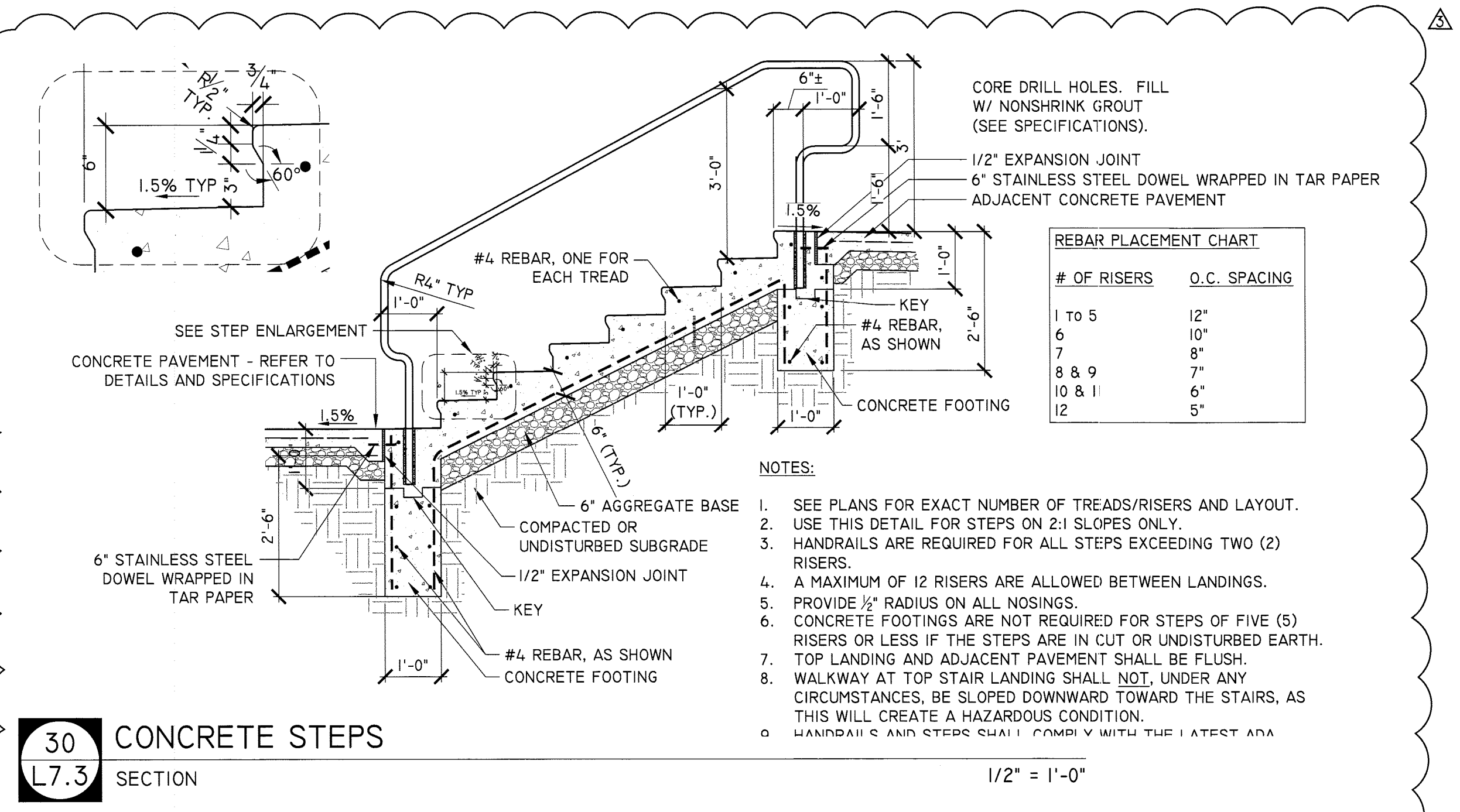
- NOTES:**
- BENCH SHALL BE PLEXUS 120"R, 3 SEAT, NARROW BACK, EMBEDDED, W/ARMS OR W/TABLE (REFER TO PLANS) MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - THREE (3) SEATS ARE PROVIDED BY ARLINGTON COUNTY. CONTRACTOR SHALL SUPPLY SEAT BASES AND MOUNTING HARDWARE FOR COMPLETE INSTALLATION. CONTACT PARK MANAGER, LYNELLCORE AT 703.228.6523 TO OBTAIN SEAT BACKS FOR INSTALLATION

28 NARROW BACK 3 SEAT BENCH
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



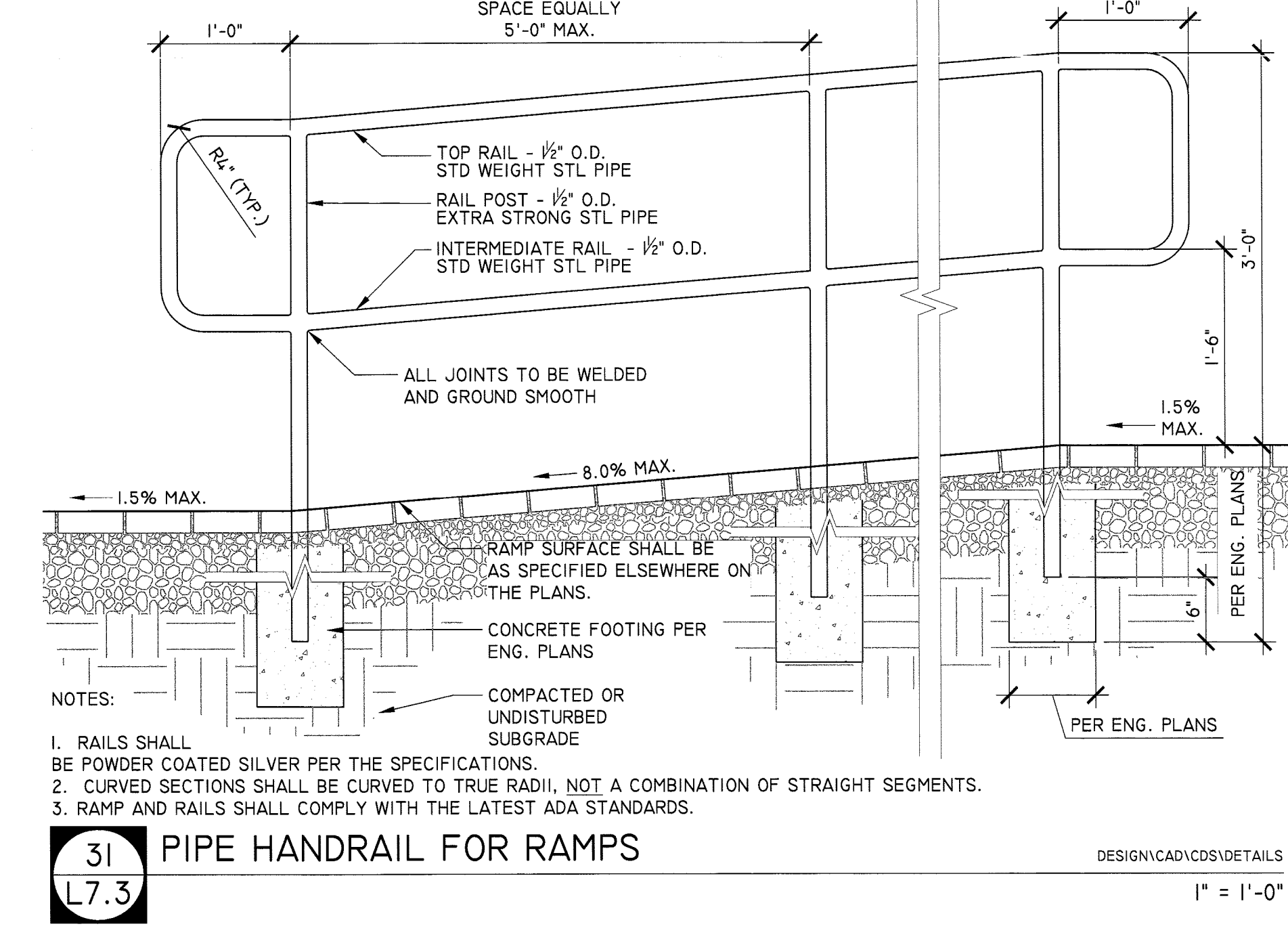
- NOTES:**
- BENCH SHALL BE PLEXUS 120"R, 3 SEAT, II" WIDE BACK, EMBEDDED, W/ARMS MANUFACTURED BY: LANDSCAPEFORMS 431 LAWDALE AVE. KALAMAZOO, MI 49048 800.521.2546 (OR APPROVED EQUAL)
 - METAL COLOR SHALL BE PER THE SPECIFICATIONS.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

29 WIDE BACK 3 SEAT BENCH
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



- NOTES:**
- SEE PLANS FOR EXACT NUMBER OF TREADS/RISERS AND LAYOUT.
 - USE THIS DETAIL FOR STEPS ON 2:1 SLOPES ONLY.
 - HANDRAILS ARE REQUIRED FOR ALL STEPS EXCEEDING TWO (2) RISERS.
 - A MAXIMUM OF 12 RISERS ARE ALLOWED BETWEEN LANDINGS.
 - PROVIDE 1/2" RADIUS ON ALL NOSINGS.
 - CONCRETE FOOTINGS ARE NOT REQUIRED FOR STEPS OF FIVE (5) RISERS OR LESS IF THE STEPS ARE IN CUT OR UNDISTURBED EARTH.
 - TOP LANDING AND ADJACENT PAVEMENT SHALL BE FLUSH.
 - WALKWAY AT TOP STAIR LANDING SHALL NOT, UNDER ANY CIRCUMSTANCES, BE SLOPED DOWNWARD TOWARD THE STAIRS, AS THIS WILL CREATE A HAZARDOUS CONDITION.
 - HANDRAILS AND STEPS SHALL COMPLY WITH THE LATEST ADA

30 CONCRETE STEPS
L7.3
DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



- NOTES:**
- RAILS SHALL BE POWDER COATED SILVER PER THE SPECIFICATIONS.
 - CURVED SECTIONS SHALL BE CURVED TO TRUE RADIUS, NOT A COMBINATION OF STRAIGHT SEGMENTS.
 - RAMP AND RAILS SHALL COMPLY WITH THE LATEST ADA STANDARDS.

31 PIPE HANDRAIL FOR RAMPS
L7.3
DESIGN\CAD\CDS\DETAILS
1" = 1'-0"



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12
Project Name and Location
13th & Herndon Park Improvements

Sheet Title
Site Details

Approvals Date
Dinesh Tiwari 1/25/12
Department Director
Park Development Division Chief
Design Unit Supervisor

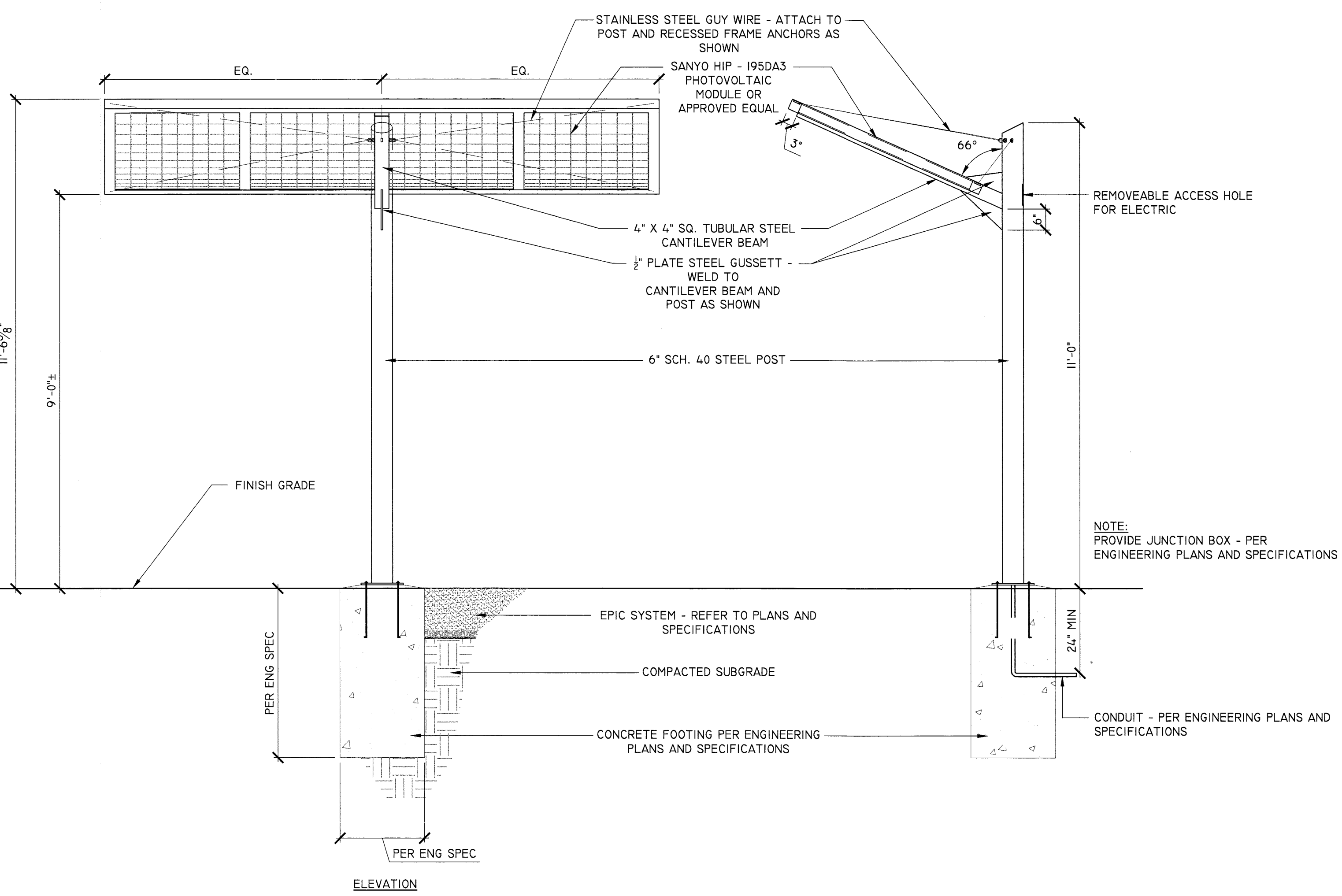
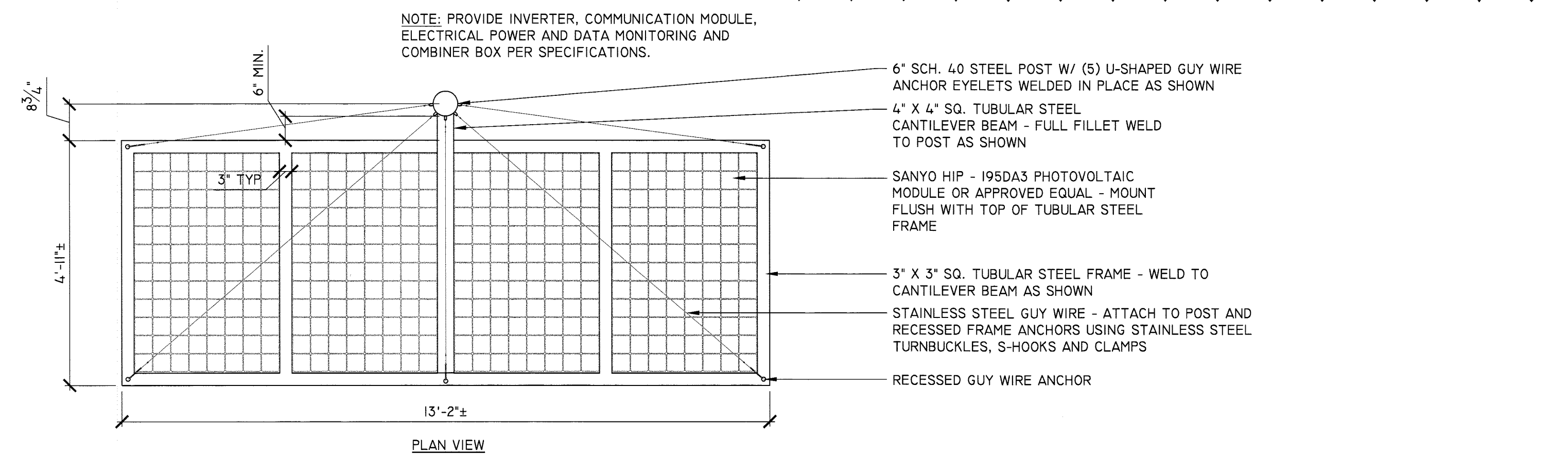
Revisions	Date
PER ZONING REVIEW	9/14/11
PER DES REVIEW	10/12/11
PER PROR REVIEW	12/22/11

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Drawn: AW
Checked: BG

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Plotted: Jan 18, 2012

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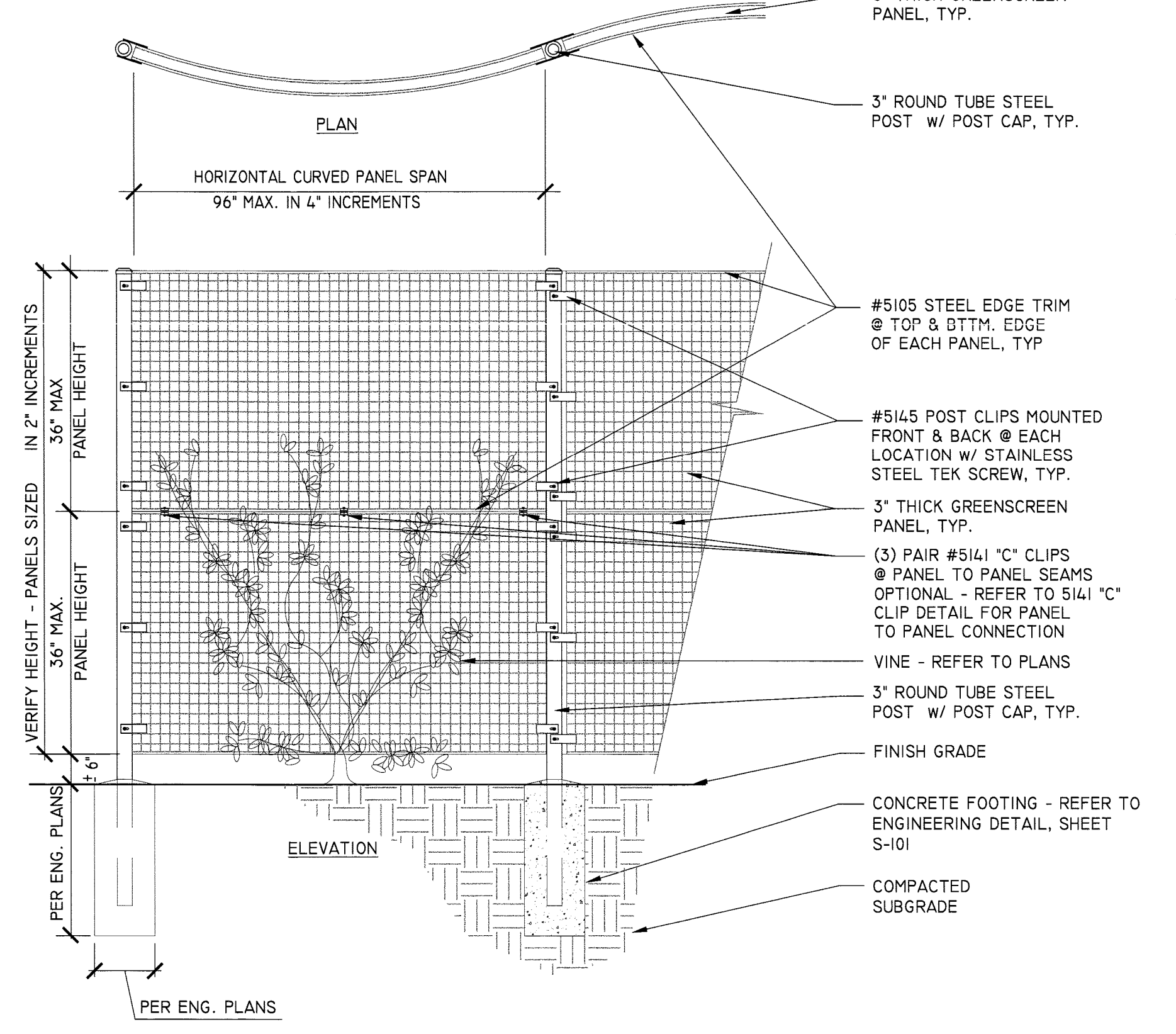
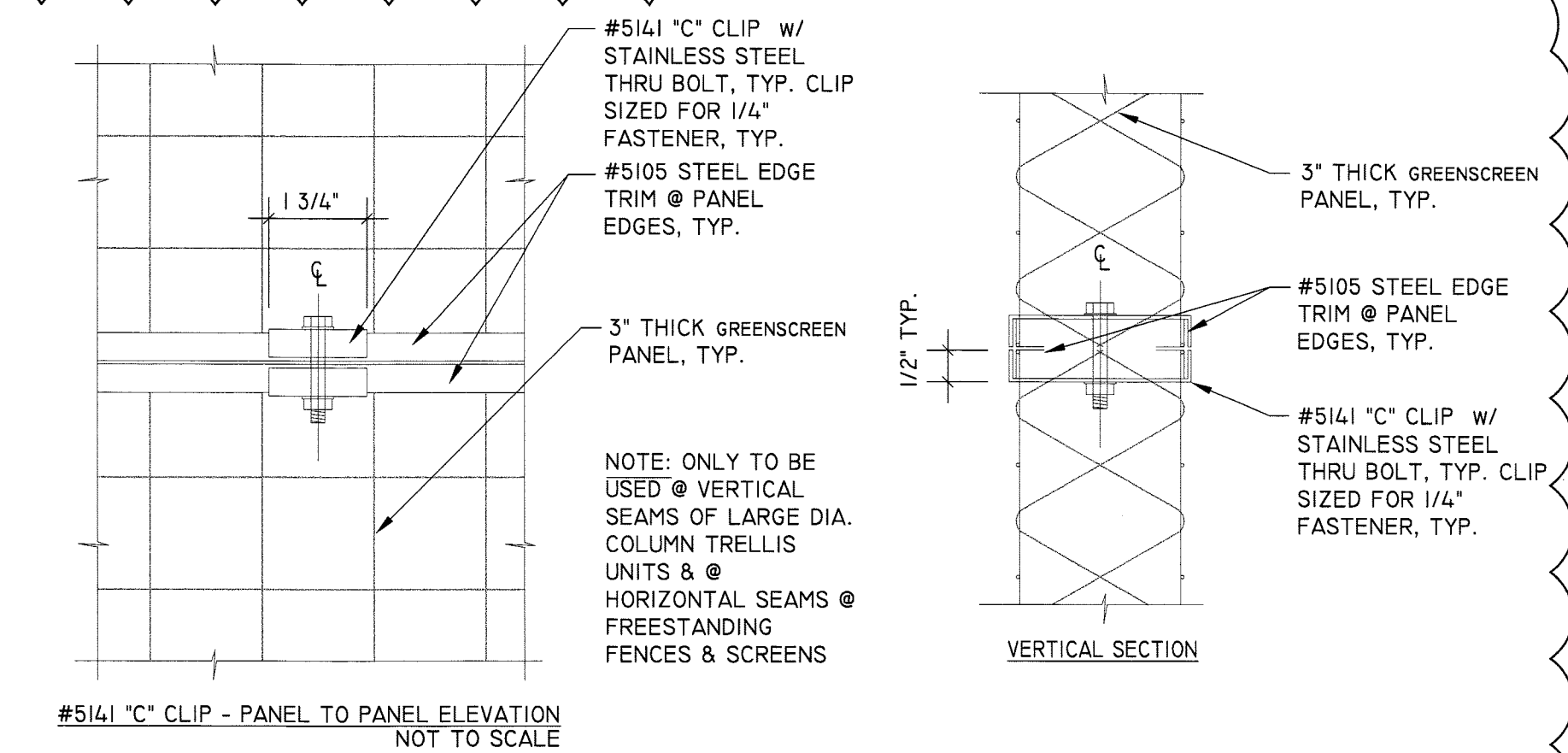
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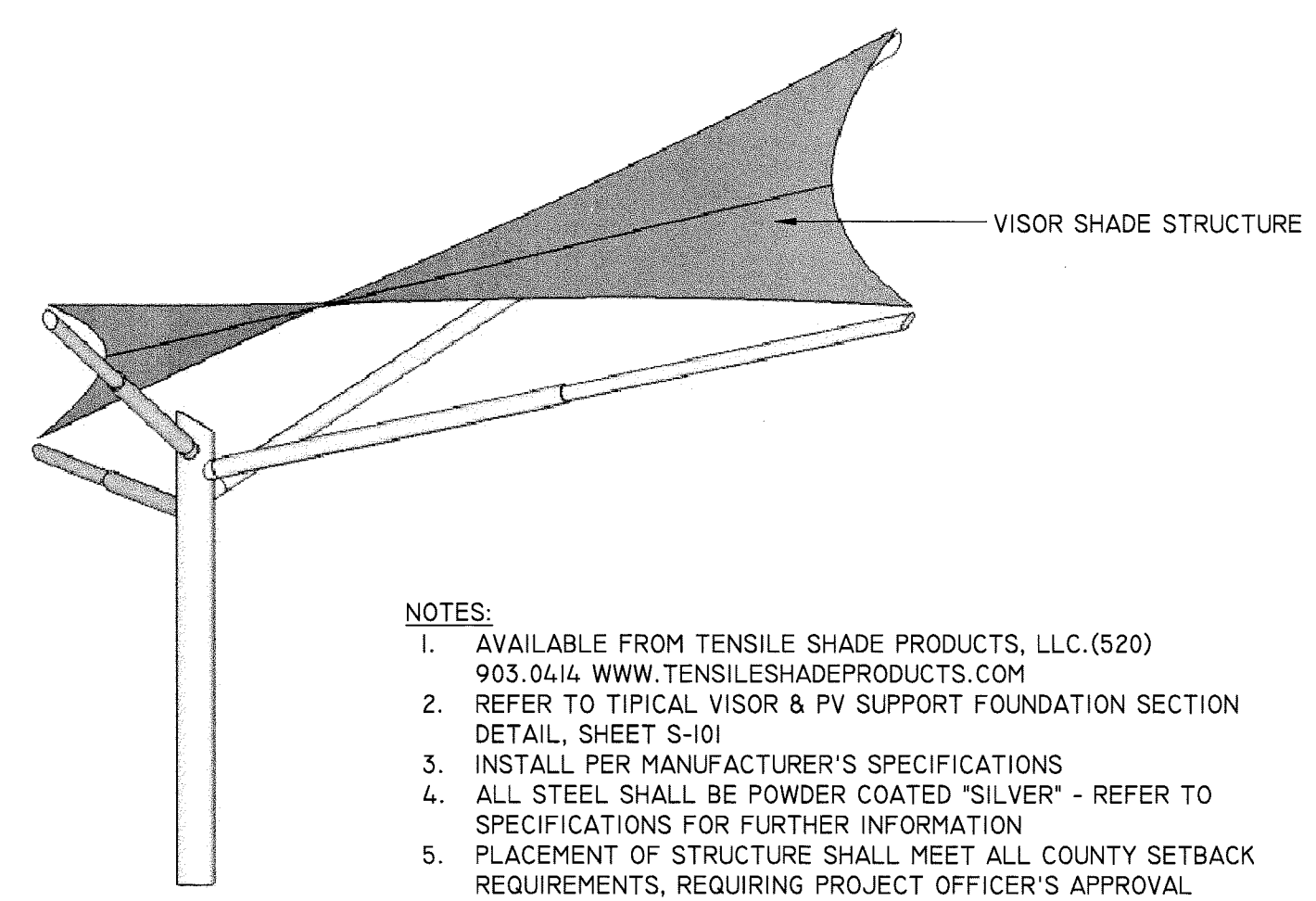
- NOTES:
- TUBULAR STEEL TO BE MINIMUM WALL THICKNESS OF 0.1096. POSTS TO BE SCH. 40 STANDARD STEEL, UNLESS OTHERWISE SPECIFIED. ALL STEEL TO BE GALVANIZED CORROSION RESISTANT STEEL. ALL WELDS SHALL BE FULL FILLET AND GROUND SMOOTH PER A.N.S.I. / A.W.S. D1.81. POWDER COAT ALL MATERIALS AS PER THE SPECIFICATIONS. COLOR SHALL BE "SILVER". CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE PROJECT OFFICER, PRIOR TO FABRICATION.
 - PHOTOVOLTAIC PANELS SHALL BE INSTALLED FLUSH WITH TOP OF FRAME AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
 - CONTRACTOR SHALL INSTALL AND PROVIDE AC POWER LIGHTNING ARRESTOR AND BREAKER IN DISTRIBUTION PANEL.
 - CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, FINISHING (GALVANIZING AND POWDER COATING), AND TRANSPORTATION NECESSARY FOR A COMPLETE AND IN-PLACE INSTALLATION.
 - CONTRACTOR SHALL PROVIDE ALL SERVICE CONNECTIONS, INCLUDING BUT NOT LIMITED TO ALL CONDUITS AND WIRING THROUGHOUT THE PARK TO THE LOADS, KIOSK, ARRAY BASES, ETC. IN ADDITION, CONTRACTOR SHALL INSTALL ALL METERING, DISCONNECTS, DISTRIBUTION PANNEL, AND JUNCTION BOXES. REFER TO ENGINEERING PLANS AND SPECIFICATIONS, SHEETS E-101 & E-102, FOR ELECTRICAL PLANS, DETAILS, AND SCHEDULES. THIS PV SYSTEM IS PART OF THE TOTAL ELECTRICAL SYSTEM FOR THE PARK AND SHALL FALL WITHIN THE REQUIREMENTS OF ALL ELECTRICAL WORK AND INSPECTIONS REQUIRED TO COMPLETE THE PARK ELECTRICAL SYSTEM.
 - CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT PV RACKING LIGHTNING PROTECTION/GROUNDING CONDUCTORS AT POLE BASES AND GROUNDING ELECTRODES/RODS.
 - CONTRACTOR SHALL PROVIDE A ENPHASE ENLIGHTEN WEB BASED MONITORING SYSTEM FOR SOLAR ARRAY (OR APPROVED EQUAL).
 - CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE ALL OF THE PV SYSTEM COMPONENTS WORK TOGETHER AND THE SYSTEM IS OPERATIONAL AND FUNCTIONING PROPERLY.
 - CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SYSTEM ELECTRICAL WORK AND EQUIPMENT (INCLUDING INFORMATION KIOSK DATA AQUISITION AND MONITORING EQUIPMENT COMPONENTS) WITH THOUGHTBARN (512 299 3068), JEFFREY STEVENS, PROJECT PV SYSTEM SPECIALIST (585-808-8402), AND COUNTY PROJECT OFFICER FOR APPROVAL, PRIOR TO INSTALLATION AND CONNECTION OF ALL COMPONENTS.

32 PV OVERHEAD STRUCTURE
L7.4

1/2" = 1'-0"



- NOTES:
- PRODUCT AVAILABLE FROM GREENSCREEN®, LOS ANGELES, CA; PHONE 800-450-3494, FAX 310-837-0523, WWW.GREENSCREEN.COM, OR APPROVED EQUAL - INSTALL PER MANUFACTURER'S RECOMMENDATION
 - REMOVE NURSERY FRAME OR STAKE. ALL VINE TENDRILS TO BE INTERTWINED ONTO PANELS AND ATTACHED W/ APPROVED VINE TIES. INSTALL BIODEGRADABLE VINE TIES PER MAFGR'S RECOMMENDATION.
 - VINES TO BE MINIMUM 5 GAL. SIZE.
 - CROWN OF PLANT TO BE PLANTED 1" ABOVE FINISH GRADE.
 - TRELLIS COLOR SHALL BE "SILVER" TO MATCH SITE FURNISHINGS.



- NOTES:
- AVAILABLE FROM TENSILE SHADE PRODUCTS, LLC.(520) 903.0414 WWW.TENSILESHADEPRODUCTS.COM
 - REFER TO TYPICAL VISOR & PV SUPPORT FOUNDATION SECTION DETAIL, SHEET S-101
 - INSTALL PER MANUFACTURER'S SPECIFICATIONS
 - ALL STEEL SHALL BE POWDER COATED "SILVER" - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
 - PLACEMENT OF STRUCTURE SHALL MEET ALL COUNTY SETBACK REQUIREMENTS, REQUIRING PROJECT OFFICER'S APPROVAL PRIOR TO INSTALLATION.

34 SHADE STRUCTURE
L7.4

1/2" = 1'-0"



DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
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IFB # 670-12

Project Name and Location
13th & Herndon Park Improvements

Sheet Title
Site Details

Approvals Date
Dinesh Tiwari 1/25/12
Department Director
Park Development Division Chief
Design Unit Supervisor

Revisions	Date
PER ZONING REVIEW	9/14/11
PER DES REVIEW	10/12/11
PER PRCR REVIEW	12/22/11

Designed: AW
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L-7.4



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
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13th & Herndon
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Dinesh Tiwari 1/25/12
Department Director
A. D. D. 1/25/12
Park Development Division Chief
B. J. M. 1/20/12
Design Unit Supervisor

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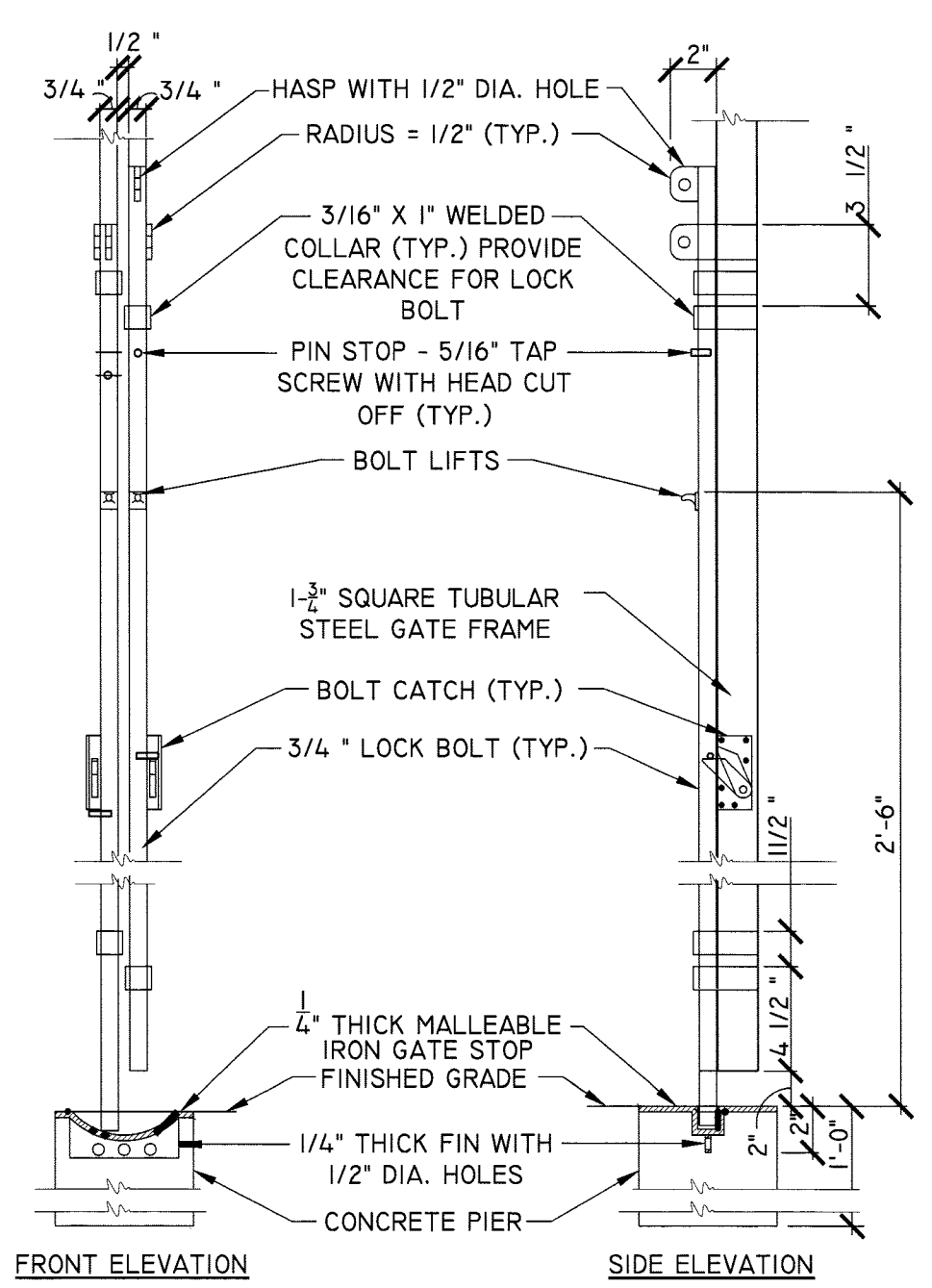
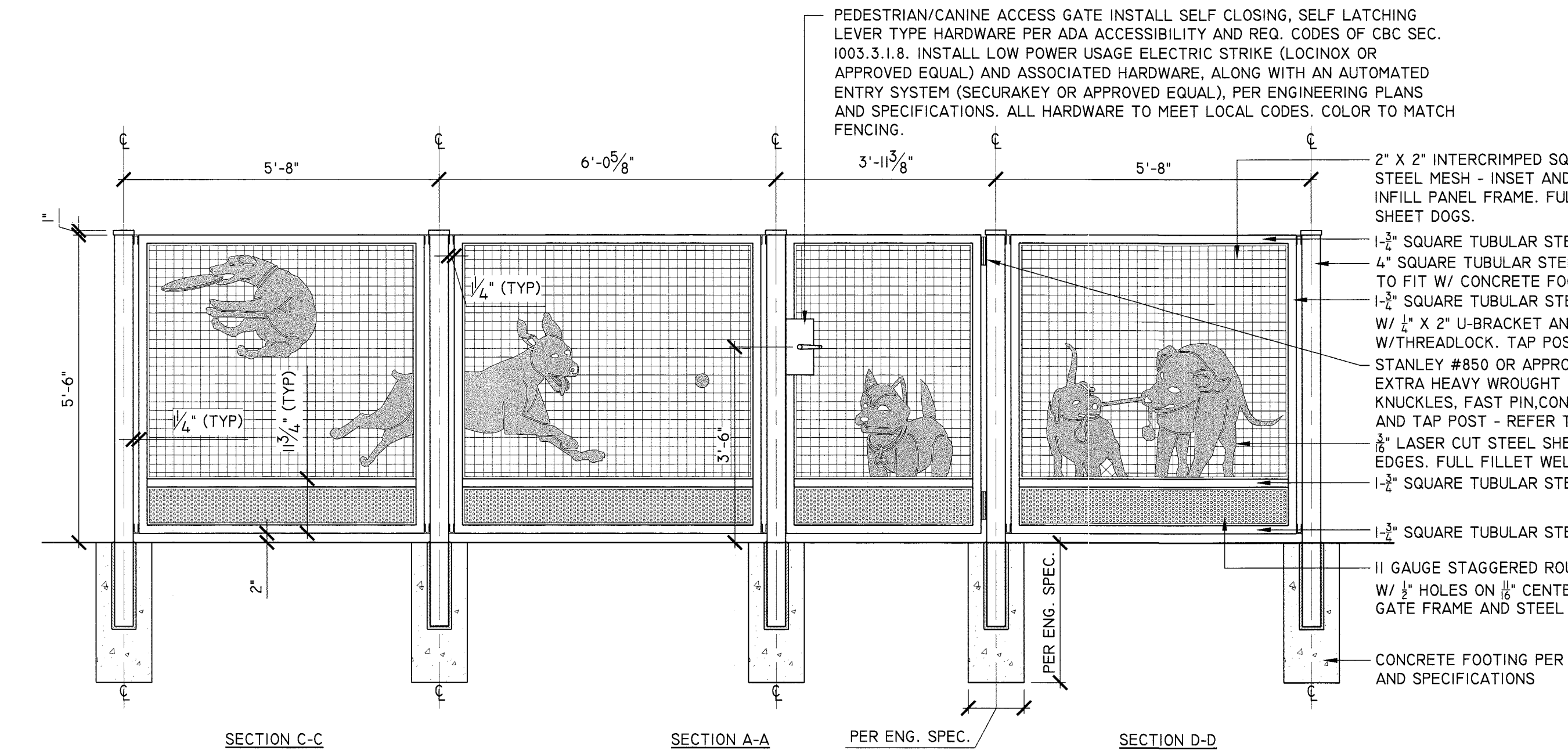
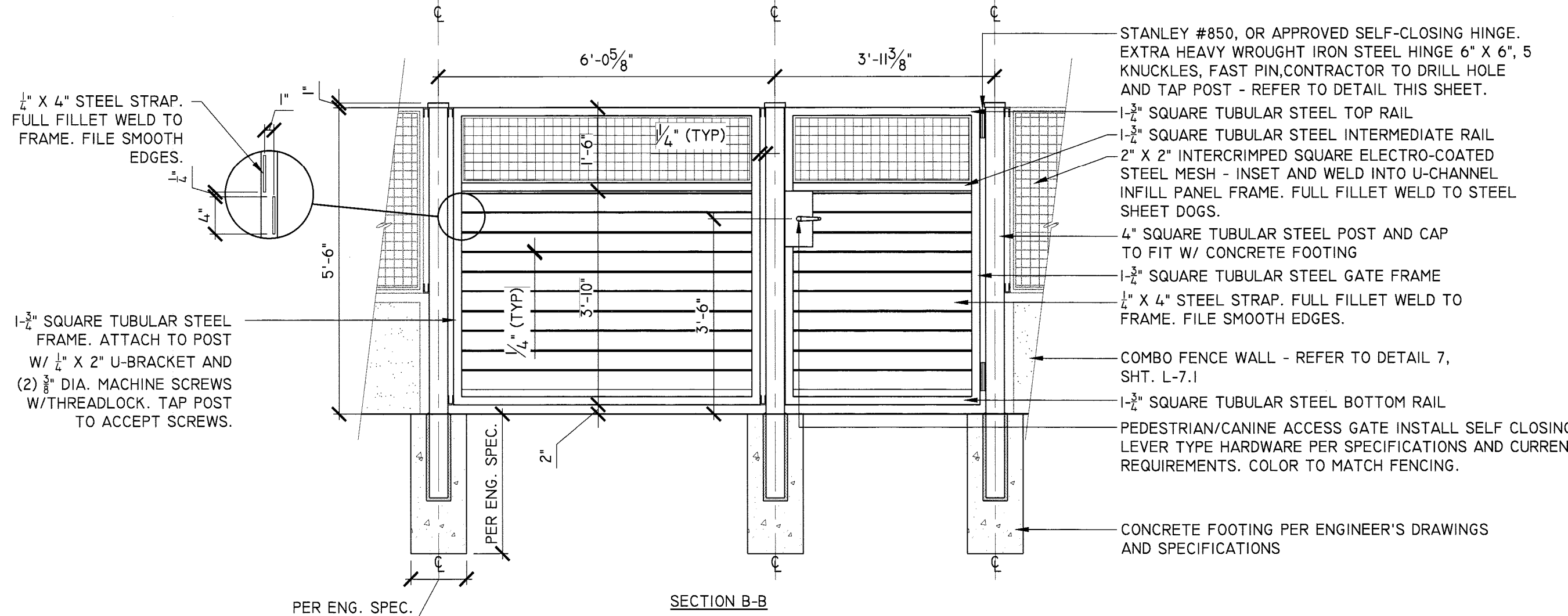
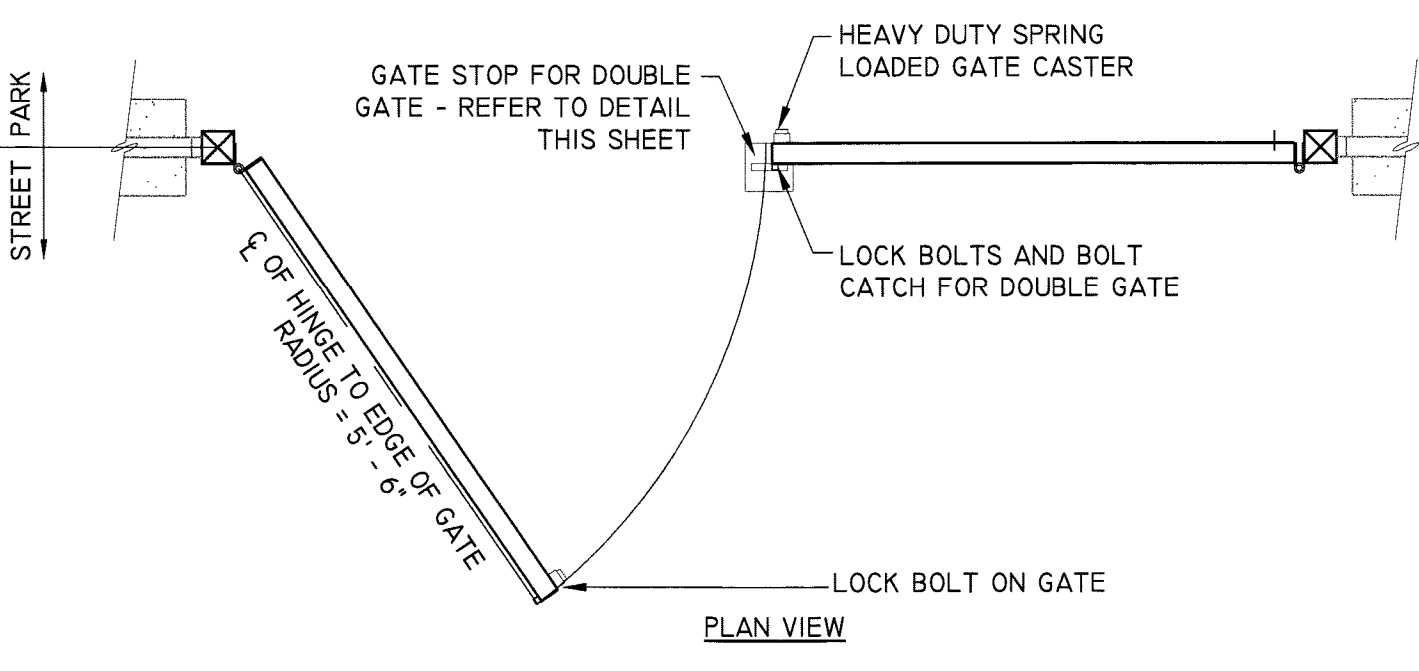
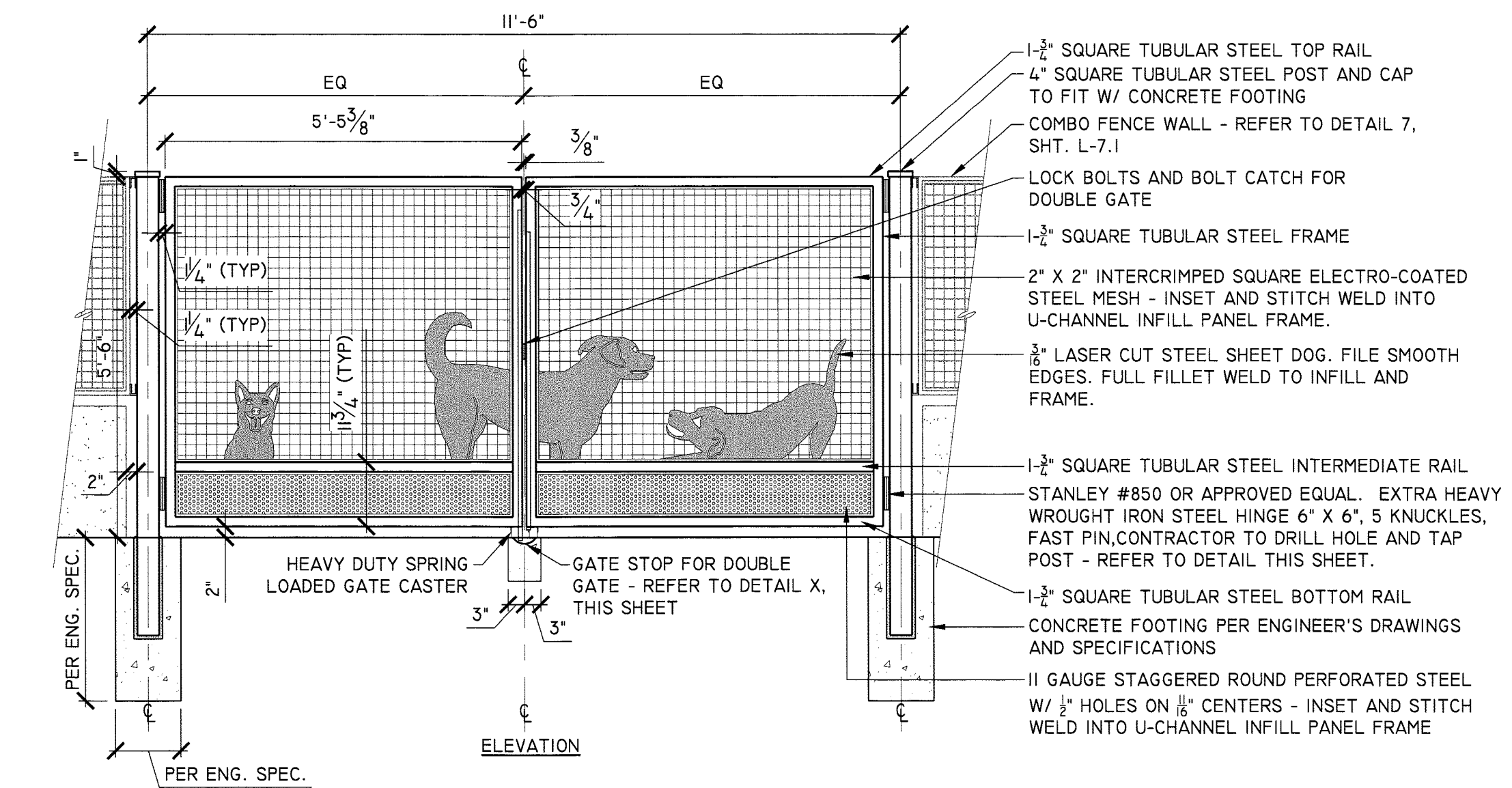
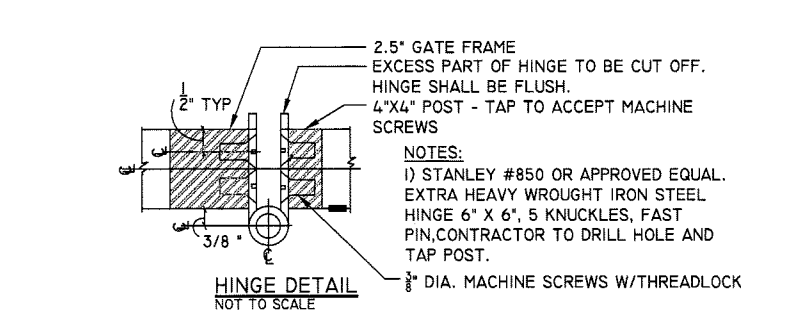
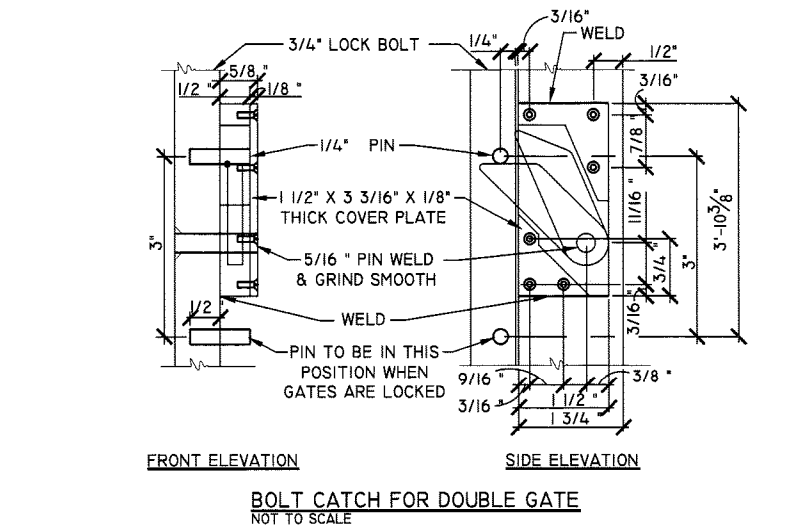
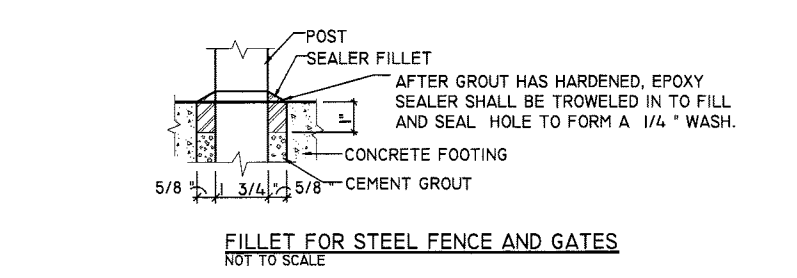
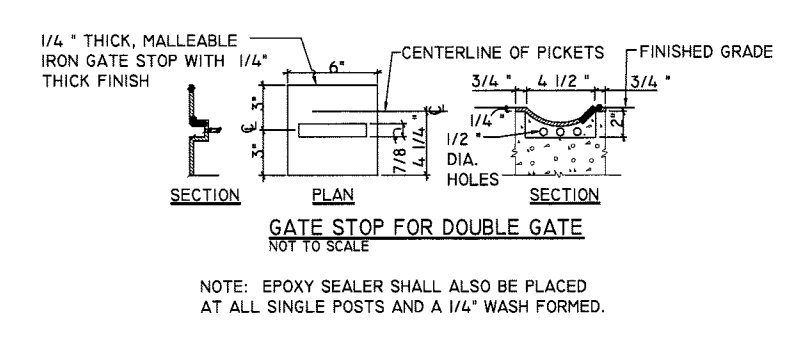
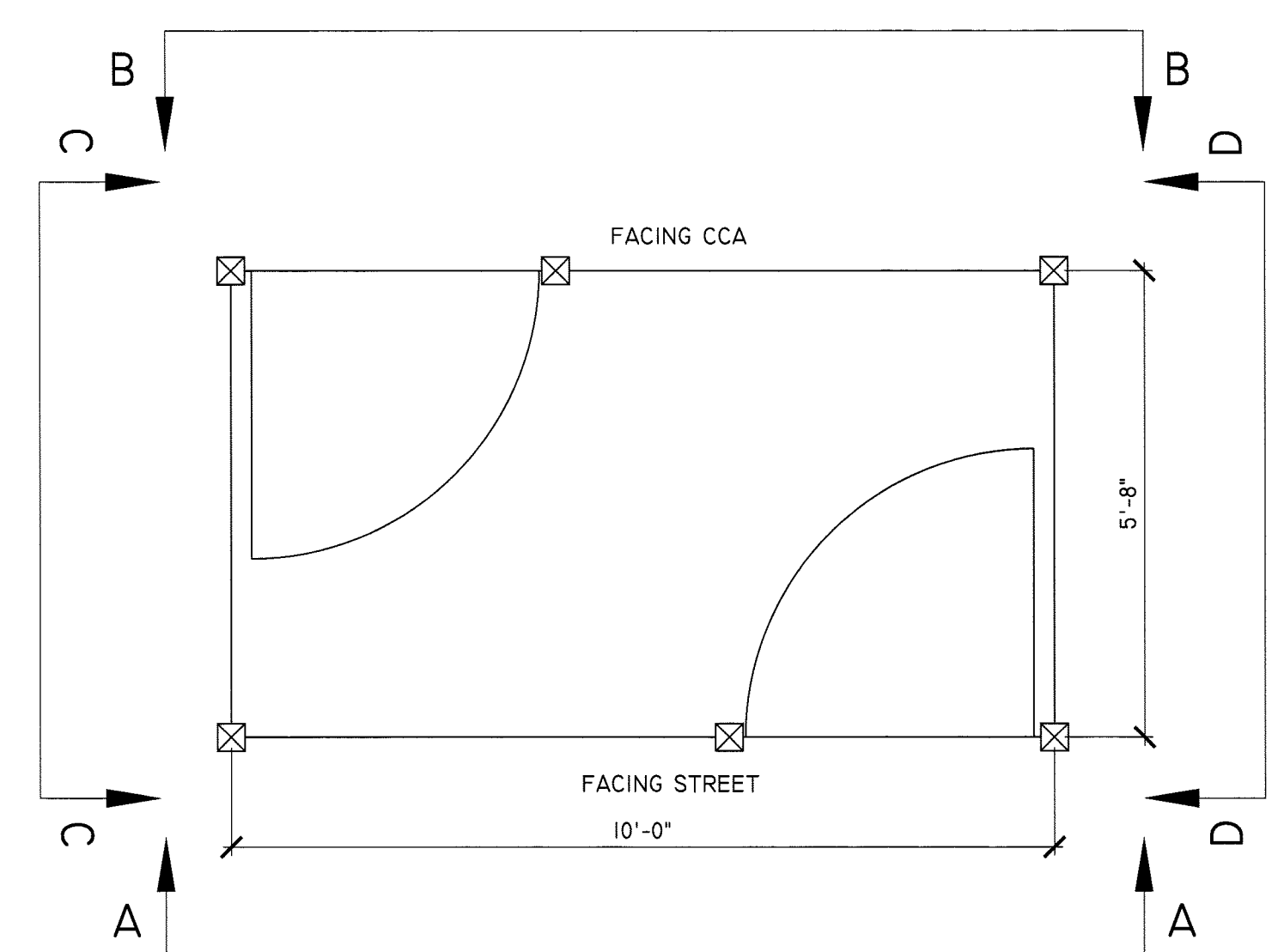
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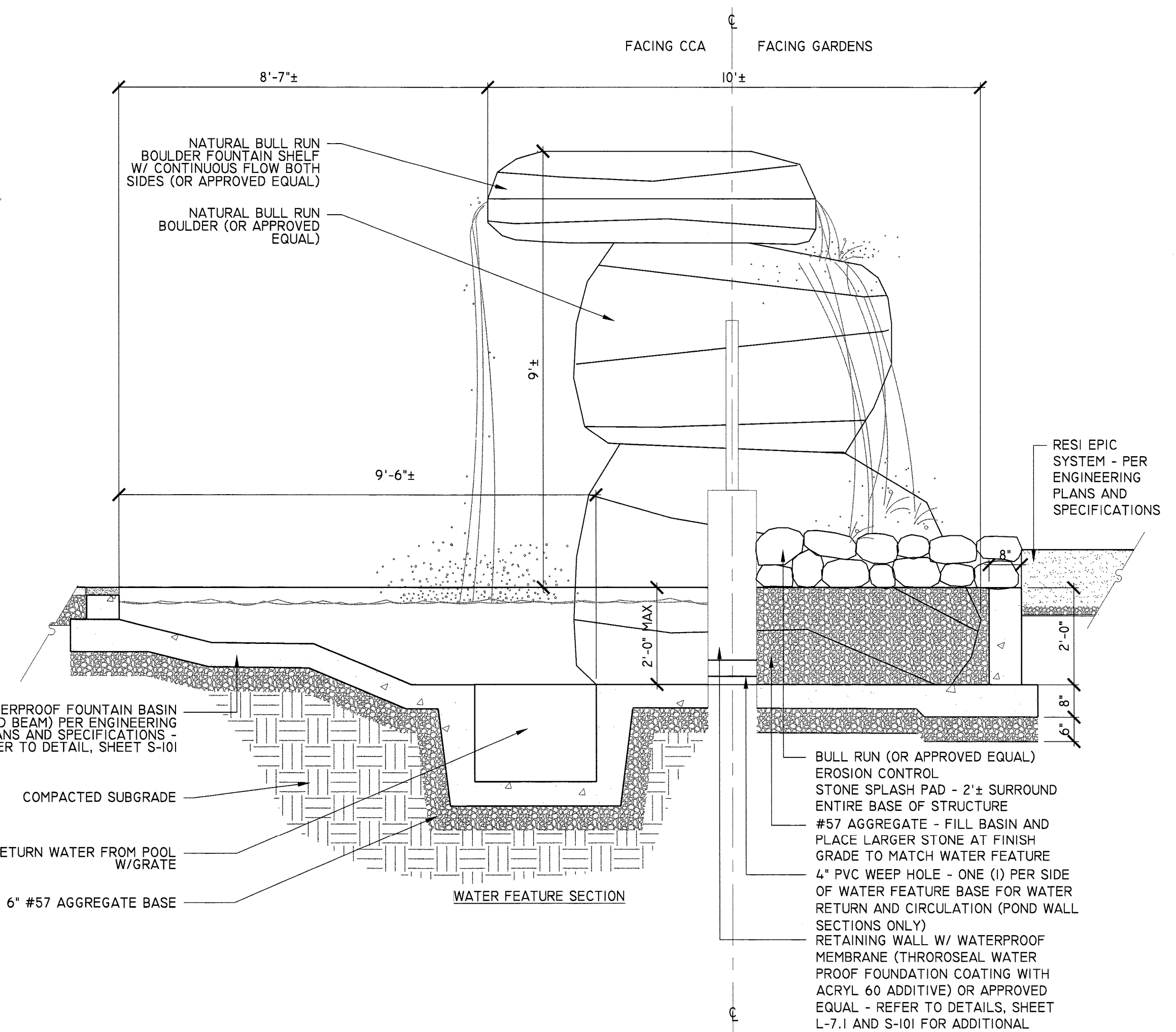
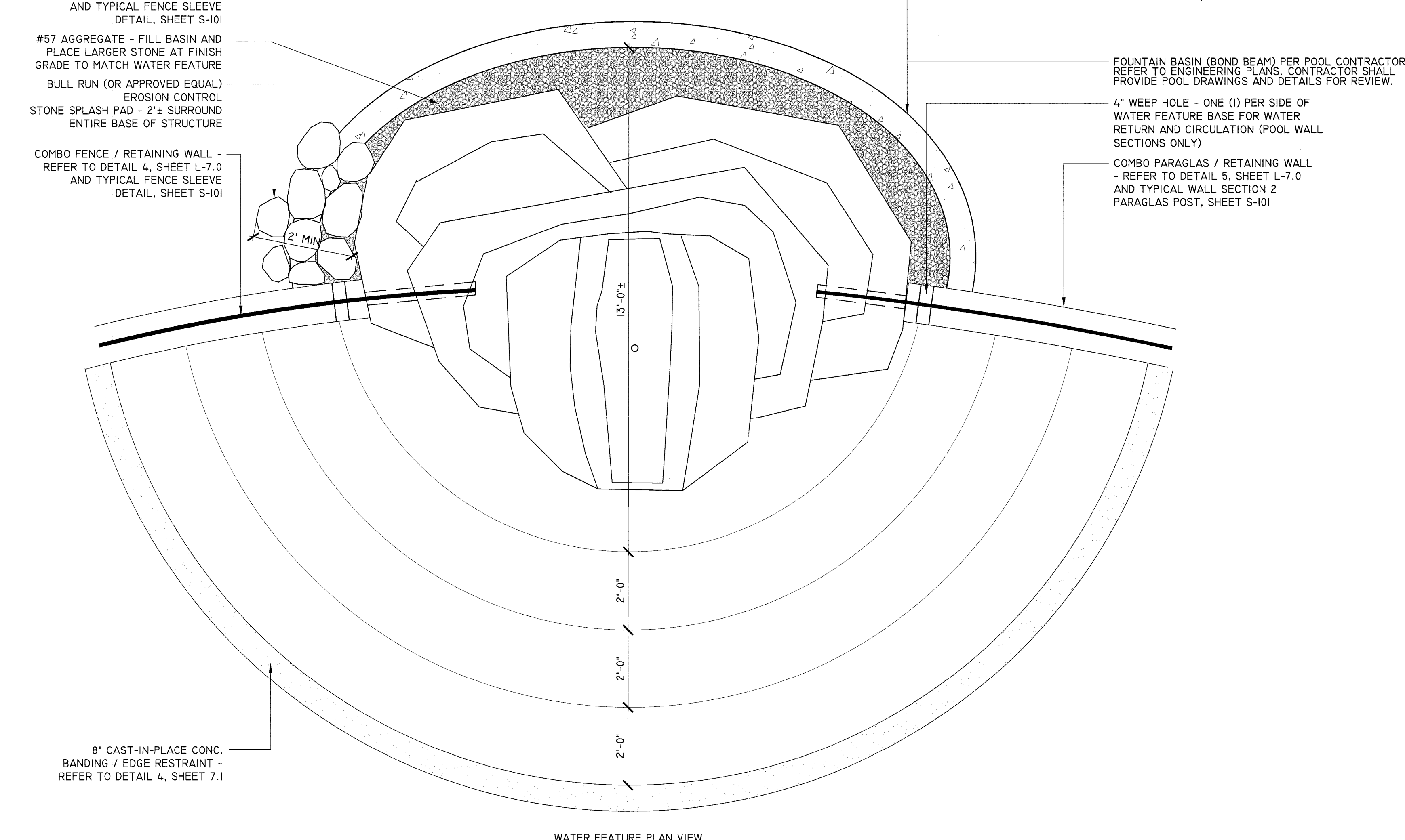
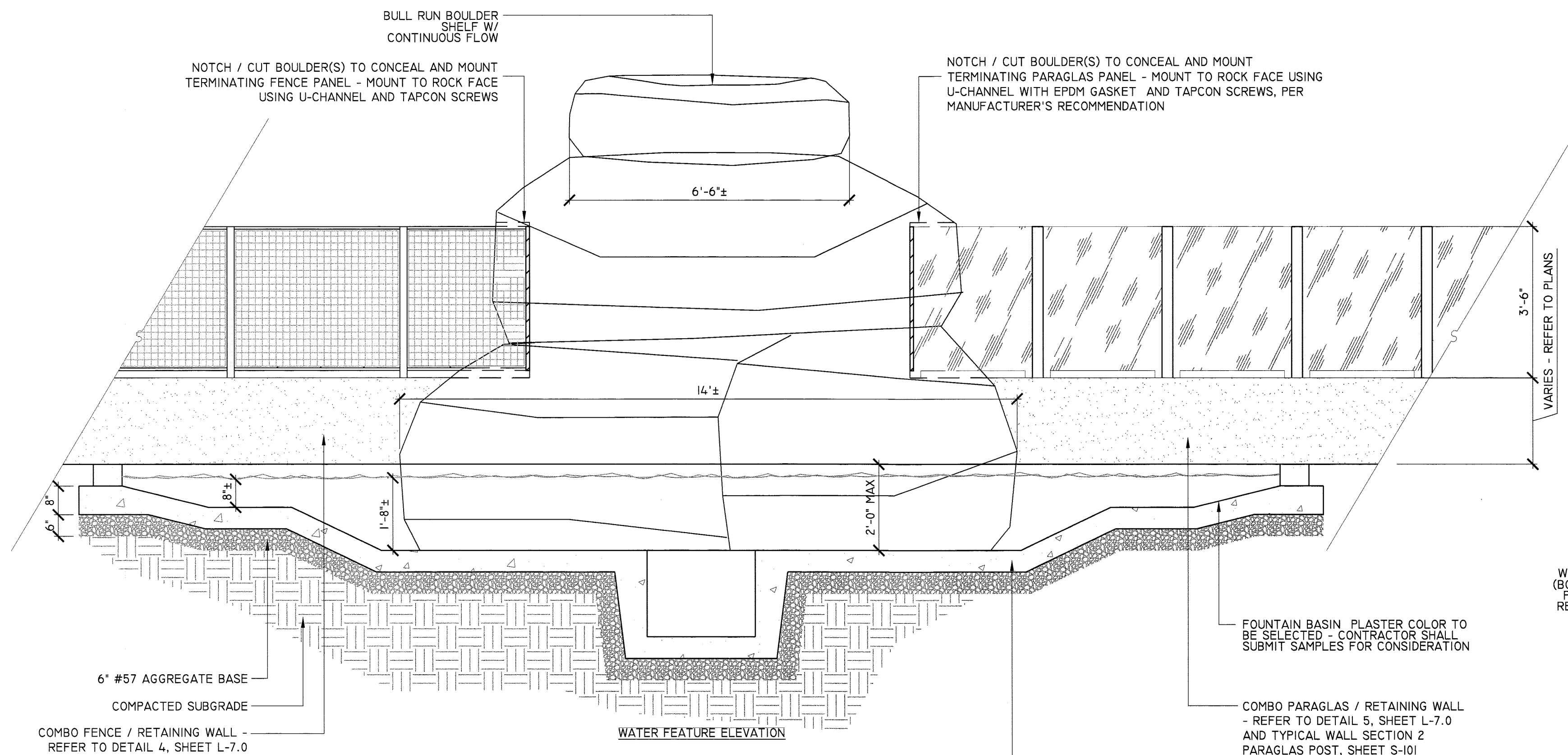
L-7.5



- NOTES:
- TUBULAR STEEL TO BE MINIMUM WALL THICKNESS OF 0.1196". TOP, INTERMEDIATE, AND BOTTOM RAILS AND POSTS TO BE SCH. 40 STANDARD STEEL. ALL STEEL TO BE GALVANIZED CORROSION RESISTANT STEEL. ALL WELDS SHALL BE GROUND SMOOTH PER A.N.S.I. / A.W.S. D1.1.81. POWDER COAT ALL MATERIALS AS PER THE SPECIFICATIONS. COLOR SHALL BE 'SILVER'. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL BY THE PROJECT OFFICER, PRIOR TO FABRICATION.
 - FOOTING AND GATE STOP LOCATIONS SHALL BE DETERMINED IN-FIELD PRIOR TO INSTALLATION AND VERIFIED BY THE PROJECT OFFICER.
 - CONTRACTOR SHALL PROVIDE ATTACHMENT DETAIL FOR COMBO WALL FENCE TO POST CONDITION FOR APPROVAL, PRIOR TO FABRICATION.
 - CONTRACTOR SHALL SUBMIT GATE CASTER AND ATTACHMENT METHOD TO PROJECT OFFICER FOR APPROVAL, PRIOR TO FABRICATION OF THE MAINTENANCE ENTRY GATE.
 - REFER TO SPECIFICATIONS FOR GATE HARDWARE.
 - CAD DRAWINGS FOR LASER CUTTING PURPOSES ARE AVAILABLE FROM THE COUNTY UPON CONTRACTOR'S REQUEST.

35 GATES
L7.5

SCALE: AS SHOWN



- NOTES:**
1. SYSTEM IS RECIRCULATING, DESIGNED FOR CANINE USE AND SHALL INCLUDE HYDRAULIC, STRUCTURAL, FILTRATION AND FEATURE PUMPING SYSTEMS, CHEMICAL SYSTEMS, AND UTILITY COORDINATION SERVICES. IN ADDITION, WATER FEATURE SHALL INCLUDE AN AUTOMATIC SKIMMER AND CHLORINE EROSION FEEDER ASSEMBLY (SLOW DISSOLVE TRICHLOR OR BROMINE TABS) WITH INTEGRATED CONTROLLER / FEEDER SYSTEM ABLE TO MONITOR AND MAINTAIN PH / CHLORINE CONCENTRATION. SYSTEM SHALL COMPLY WITH ACC 24.1 (WATER RECREATION FACILITIES), PROVIDING IPFM CHLORINATION. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING BOULDER ANCHORING AND METHOD OF WALL AND FENCE ATTACHMENT.
 2. REFER TO ENGINEERING PLANS AND SPECIFICATIONS, SHEETS P-001 7 P-101, FOR SYSTEM COMPONENTS, PLUMBING, AND ELECTRICAL CONNECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WATER FEATURE COMPONENTS, AS WELL AS PROVIDING LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF THE OPERATIONAL SYSTEMS AS DETAILED IN THE PLANS AND SPECIFICATIONS. ANY SUBSTITUTIONS OF WATER FEATURE MATERIALS AND/OR METHODS SHALL REQUIRE WRITTEN APPROVAL BY THE PROJECT OFFICER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS ACCOMPANIED BY (1) A COMPLETE WATER FEATURE SYSTEM FLOW DIAGRAM, (2) A COMPLETE ELECTRICAL CONTROL PANEL LADDER LOGIC DIAGRAM, (3) A WRITTEN DESCRIPTION OF THE WATER FEATURE'S OPERATIONAL CYCLE, (4) A WRITTEN TWO (2) YEAR PERFORMANCE GUARANTEE CERTIFYING THAT THE PROPOSED SYSTEM WILL MEET THE SPECIFIED DESIGN INTENT AND PERFORMANCE REQUIREMENTS.
 3. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL TURN OVER THREE COPIES OF OWNER'S OPERATION AND MAINTENANCE MANUALS. IN ADDITION, MANUALS SHALL BE PROVIDED ON COMPACT DISCS, IN A PRINTABLE FORMAT, INCLUDING MAINTENANCE PROCEDURES AND MANUFACTURER'S DATA SHEETS AND SYSTEM DRAWINGS.
 4. WATER FEATURE PLUMBING AND ELECTRICAL DRAWINGS ARE DIAGRAMATIC, INTENDED TO INDICATE THE SCOPE OF THE WORK TO BE DONE. EQUIPMENT AND MATERIAL LOCATIONS ARE DRAWN FOR GRAPHIC CLARITY AND ARE APPROXIMATE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE TO PROJECT OFFICER FOR APPROVAL, PRIOR TO CONSTRUCTION. ALL PLUMBING AND ELECTRICAL WORK SHALL COMPLY WITH LOCAL CODE REQUIREMENTS. INSTALL ONLY STRANDED TYPE COPPER CONDUCTORS WITH WATERPROOF INSULATION BETWEEN UNDERWATER JUNCTION BOXES AND FOUNTAIN CONTROL PANEL. SOLID COPPER CONDUCTORS SHALL NOT BE PERMITTED. CONTRACTOR SHALL SIZE WIRE BASED UPON CONDUIT RUNS AND CODE REQUIREMENTS.
 5. QUESTIONS PERTAINING TO WORK THAT DOES NOT APPEAR TO BE SUFFICIENTLY DETAILED OR EXPLAINED, OR PERTAINING TO THE TRUE MEANING OF A PART OF THE DRAWINGS OR SPECIFICATIONS, OR DISCREPANCIES FOUND WITHIN THE CONSTRUCTION DOCUMENTS, SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND/OR PROJECT OFFICER FOR CLARIFICATION.
 6. ALL MATERIALS AND LABOR REQUIRED TO COMPLETE FIELD WIRING WITH WIRE TERMINATIONS FOR INCOMING POWER AND WIRING ASSOCIATED WITH WATER LEVEL CONTROL OR RESERVOIR AND SYSTEM AUTOMATION ELECTRICAL COMPONENTS ARE TO BE COMPLETED AND TESTED BY INSTALLING CONTRACTOR PRIOR TO A SCHEDULED ON-SITE STARTUP BY A QUALIFIED TECHNICIAN.
 7. INSTALL PIPE RUNS AS DIRECT AS POSSIBLE, USING A MINIMUM NUMBER OF FITTINGS. SLOPE PIPE TO PUMP FOR DRAINAGE AND FREE OF AIR TRAPS OR LOOPS.
 8. WATERPROOF INSIDE OF WELL/VAULT: SEAL WITH LINK SEAL AND GROUT ALL PIPE PENETRATIONS INTO THE VAULT/WELL. FILL ALL CRACKS VOIDS AND JOINTS WITH XYPEX BRAND "PATCH & PLUG" GROUT (OR APPROVED EQUAL). APPLY XYPEX BRAND "CONCENTRATE" WATERPROOF COATING (OR APPROVED EQUAL) TO ENTIRE INSIDE SURFACE OF VAULT. APPLY A FINISH COAT OF XYPEX BRAND "MODIFIED" WATERPROOF COATING TO ENTIRE INSIDE SURFACE OF VAULT.
 9. WATERPROOF WATERLINE (BOND BEAM, BOULDERS, WALL, ETC.) OF POND AREA WITH RICOROCK POLYMER WATERPROOFING (OR APPROVED EQUAL).

Approvals	Date
<i>Dineen Tiwari</i>	1/25/12
Department Director	
<i>J. D. Doherty</i>	1/25/12
Park Development Division Chief	
<i>J. J. ...</i>	1/20/12
Design Unit Supervisor	

Revisions	Date
△ PER ZONING REVIEW	9/14/11
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ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location

13th & Herndon Park Improvements

Sheet Title

Signage Layout Plan

Approvals Date

Dineen Tiwari 1/25/12
Department Director

J. DeWitt 1/25/12
Park Development Division Chief

[Signature] 1/20/12
Design Unit Supervisor

Revisions Date

△ PER ZONING REVIEW 9/14/11
△ PER DES REVIEW 10/12/11
△ PER PRCR REVIEW 12/15/11

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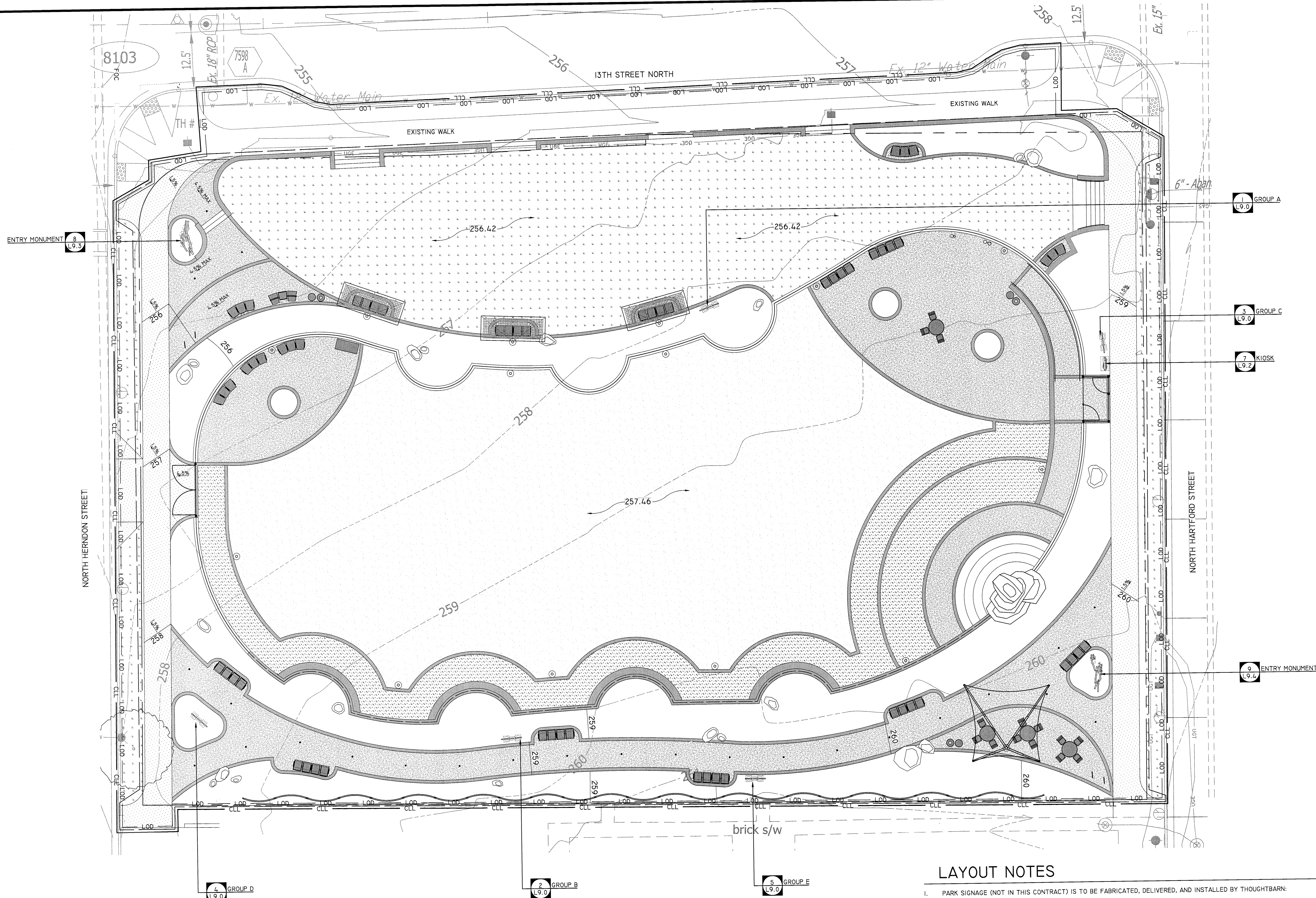
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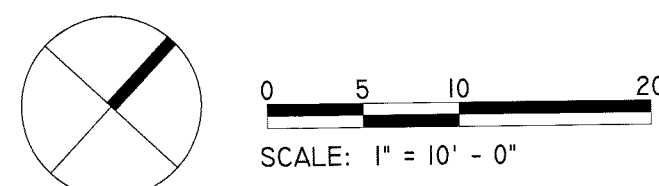
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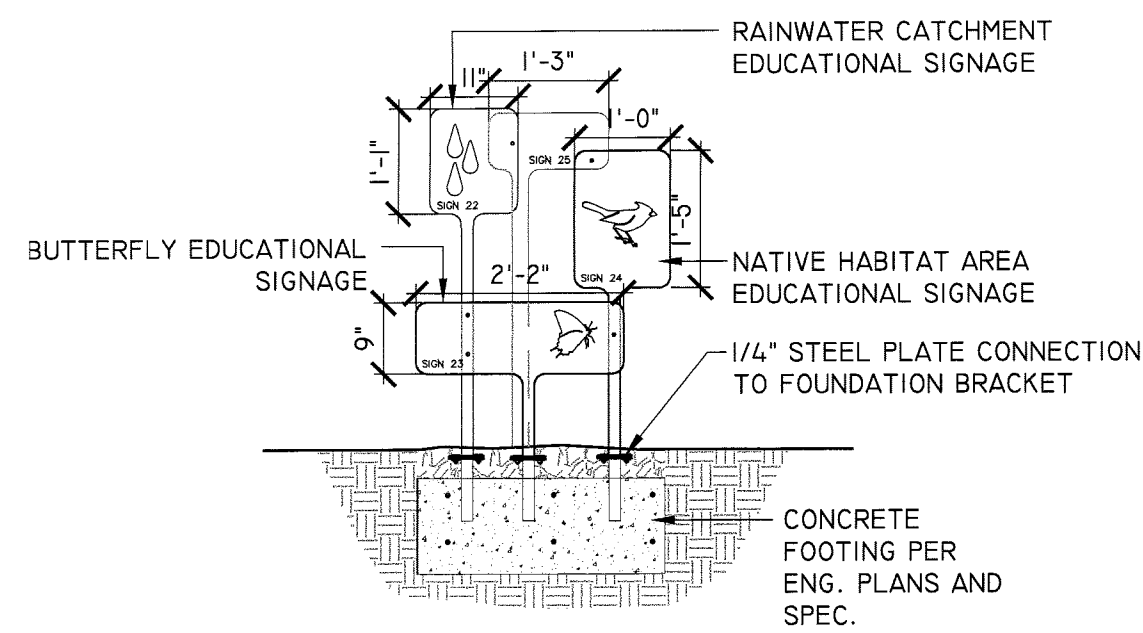
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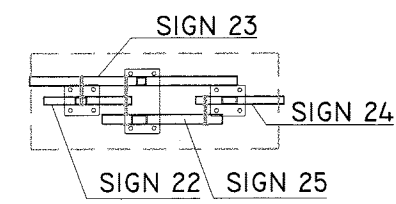
LAYOUT NOTES

- PARK SIGNAGE (NOT IN THIS CONTRACT) IS TO BE FABRICATED, DELIVERED, AND INSTALLED BY THOUGHTBARN:
ROBERT GAY / LUCY BEGG
4805 RED BLUFF RD / STUDIO A
AUSTIN TX 78702 / 512 299 3068
GAYROBE@THOUGHTBARN.COM
WWW.THUGHTBARN.COM
- CONTRACTOR SHALL PROVIDE THOUGHTBARN AND PROJECT OFFICER WITH MINIMUM THIRTY (30) DAYS NOTICE TO COORDINATE DELIVERY AND INSTALLATION OF PARK SIGNAGE IN ACCORDANCE WITH PARK CONSTRUCTION SCHEDULE.
- SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE COORDINATED IN THE FIELD, PRIOR TO INSTALLATION. THOUGHTBARN SHALL STAKE THE ALIGNMENT OF ALL SIGNS IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO INSTALLATION.



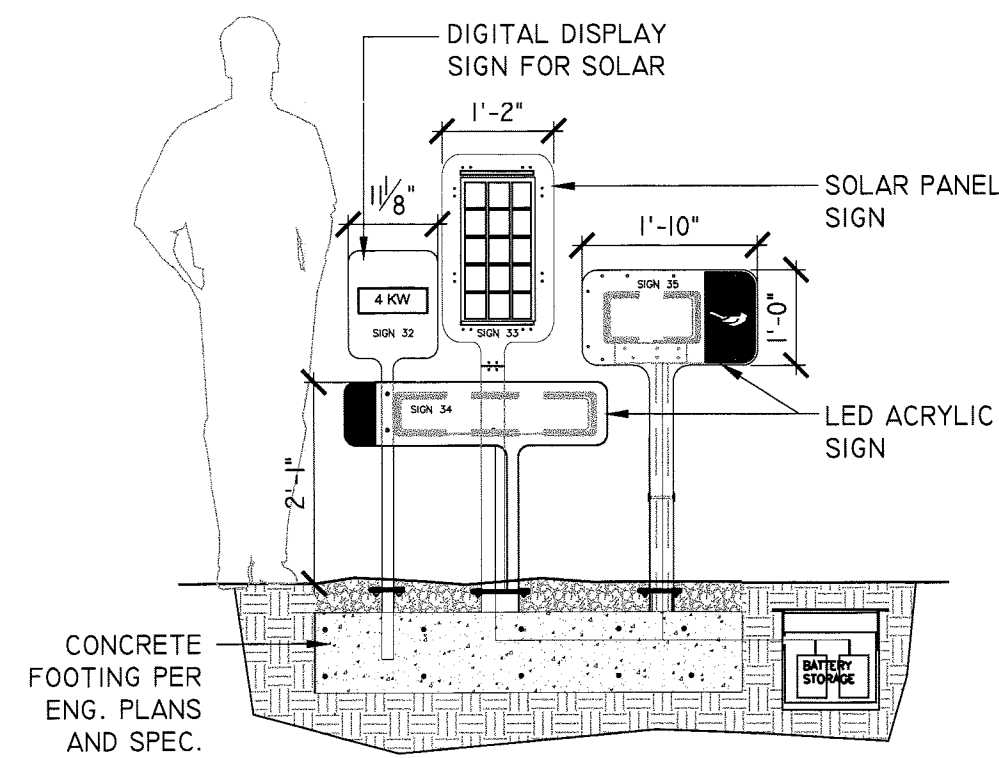


EDUCATIONAL SIGNAGE GROUP A - SECTION / ELEVATION

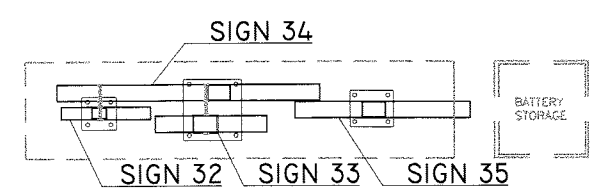


EDUCATIONAL SIGNAGE GROUP A - PLAN

1 EDUCATIONAL SIGN OPTION A
L9.0

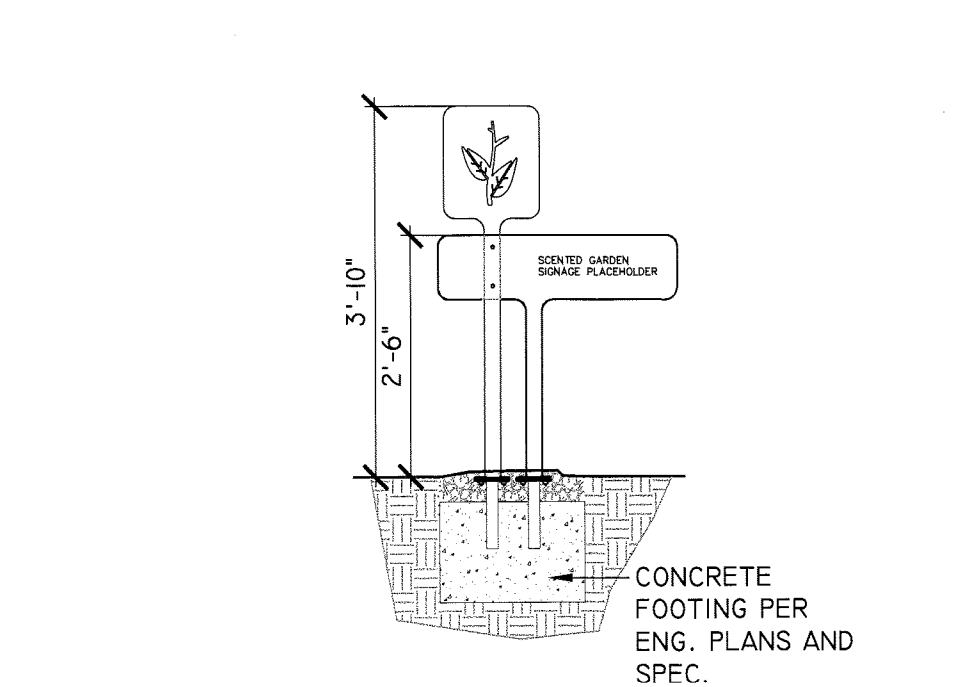


EDUCATIONAL SIGNAGE GROUP C - SECTION / ELEVATION

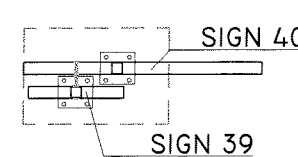


EDUCATIONAL SIGNAGE GROUP C - PLAN

3 EDUCATIONAL SIGN OPTION C
L9.0

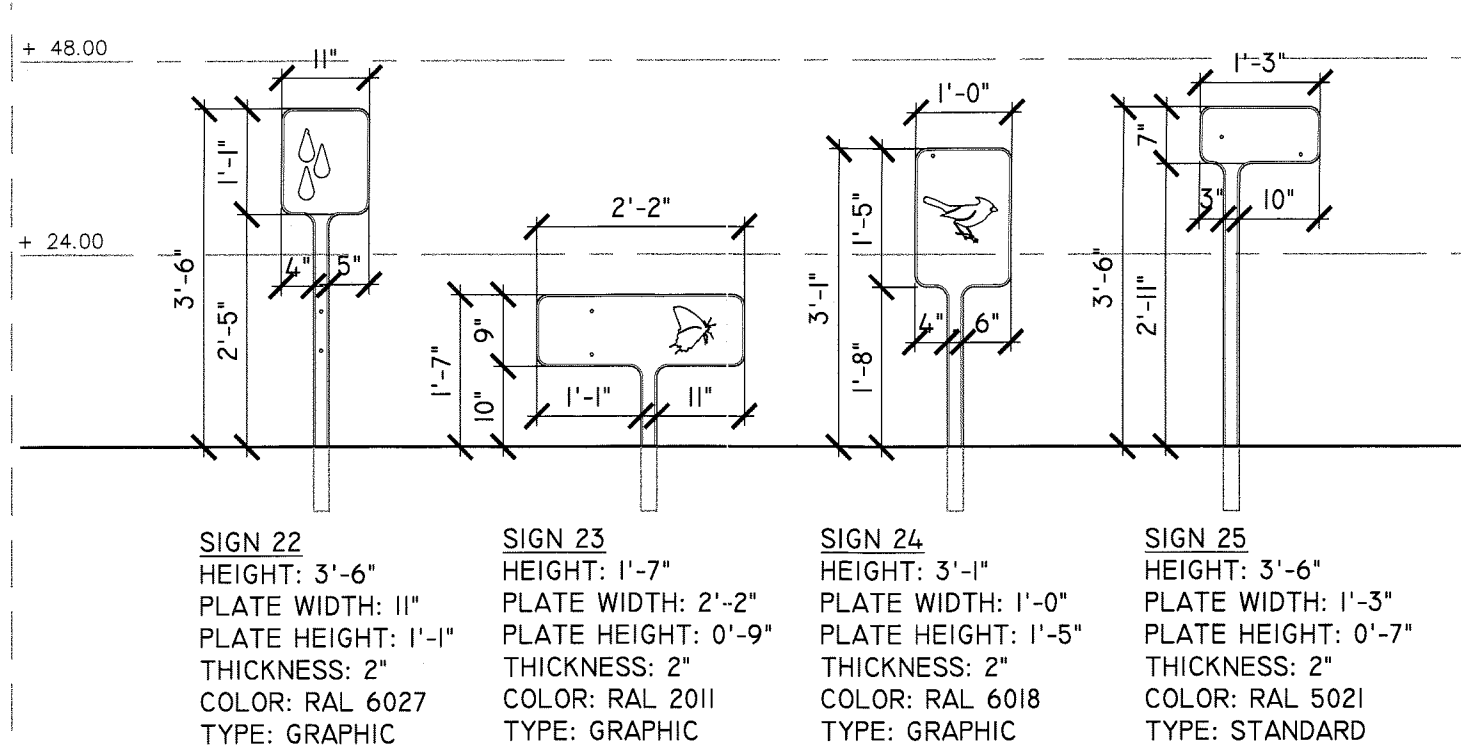


EDUCATIONAL SIGNAGE GROUP E - SECTION / ELEVATION



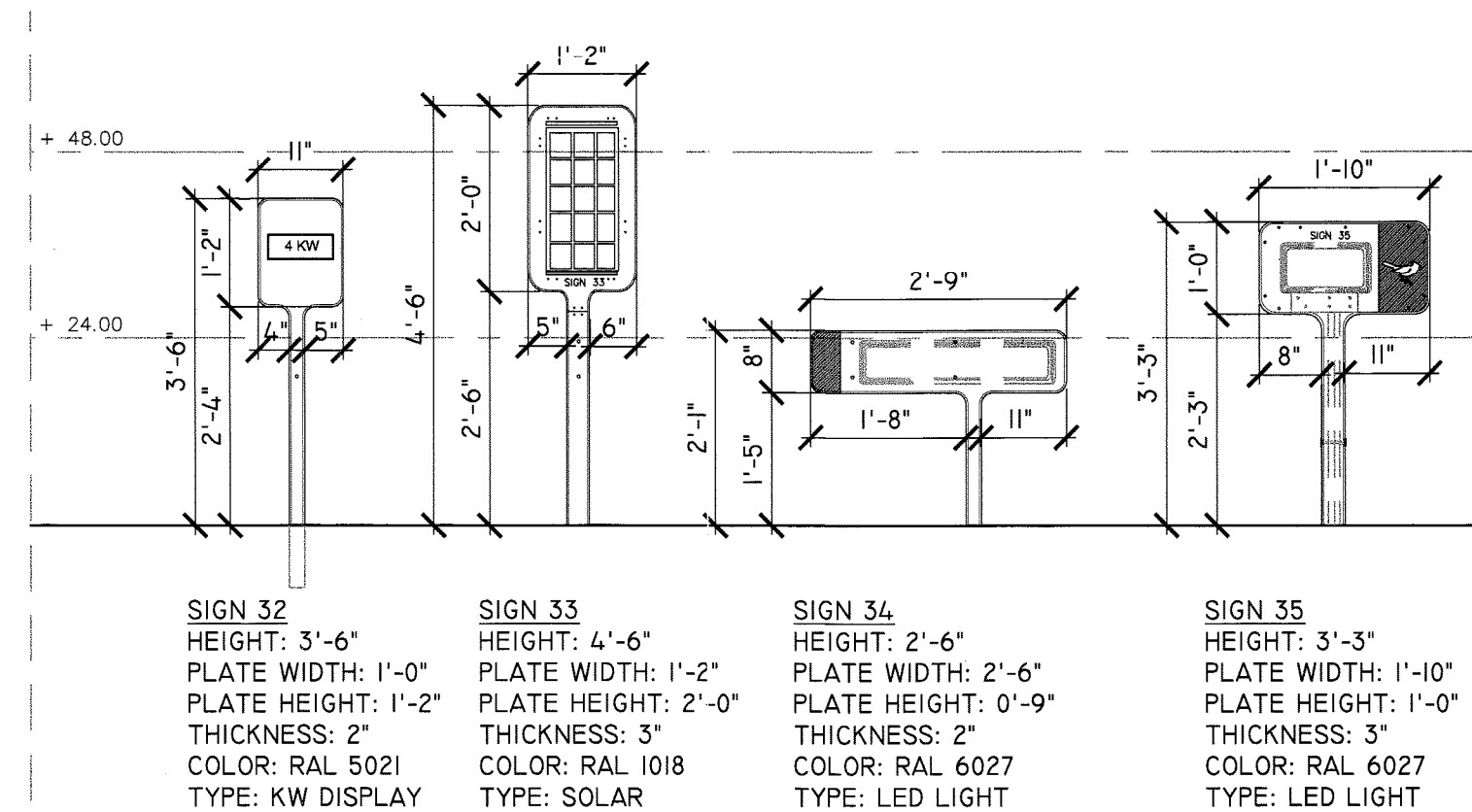
EDUCATIONAL SIGNAGE GROUP E - PLAN

5 EDUCATIONAL SIGN OPTION E
L9.0



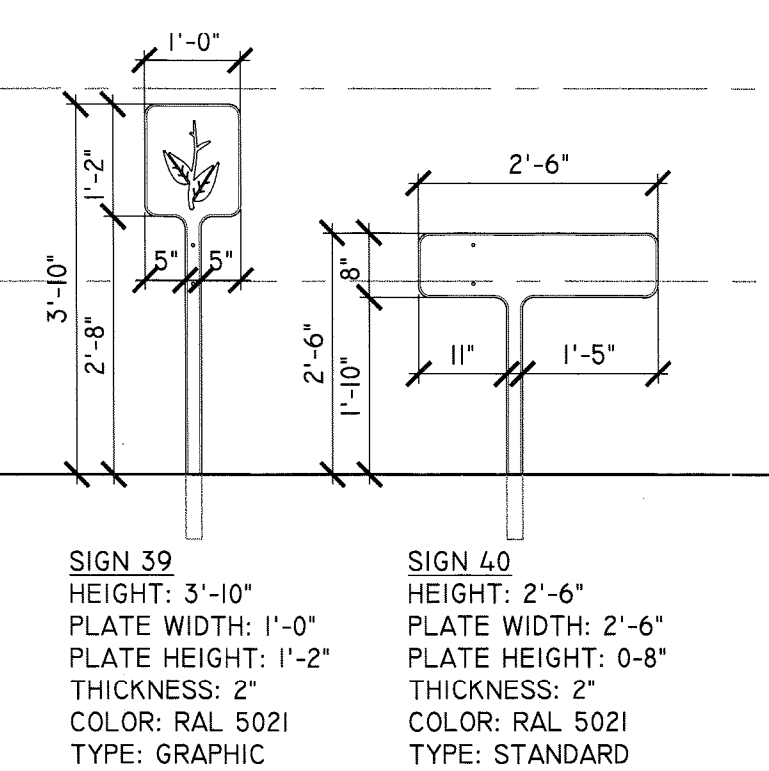
EDUCATIONAL SIGNAGE GROUP A - ELEVATION

DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



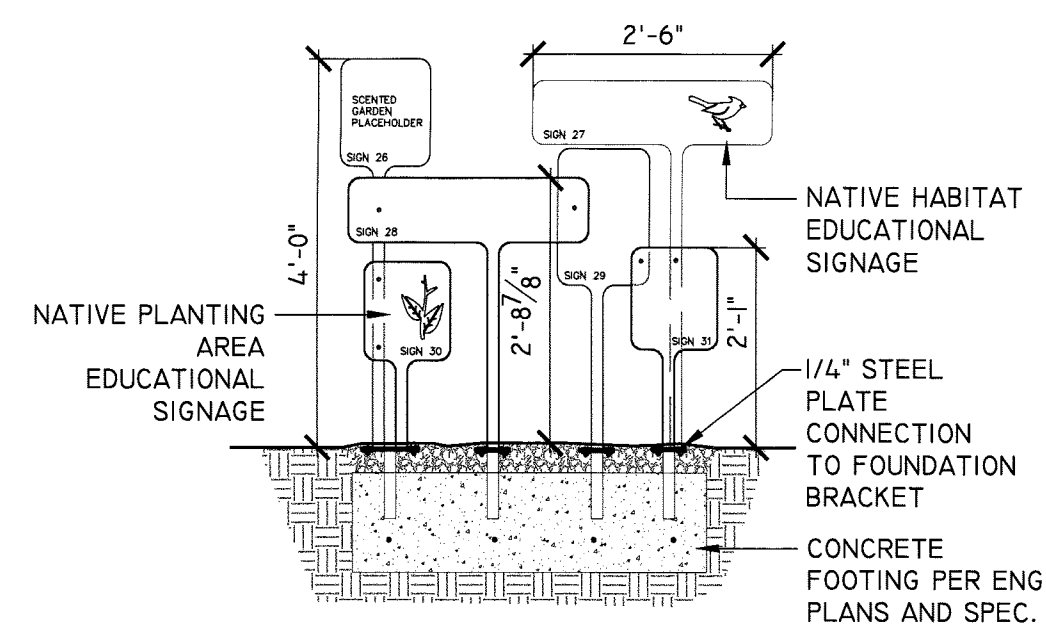
EDUCATIONAL SIGNAGE GROUP C - ELEVATION

DESIGN\CAD\CDS\DETAILS
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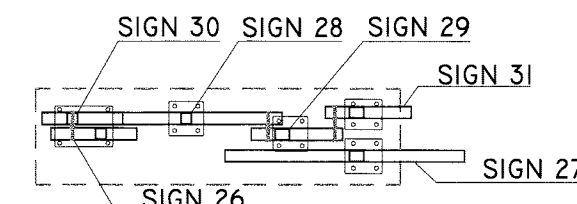


EDUCATIONAL SIGNAGE GROUP E - ELEVATION

DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"

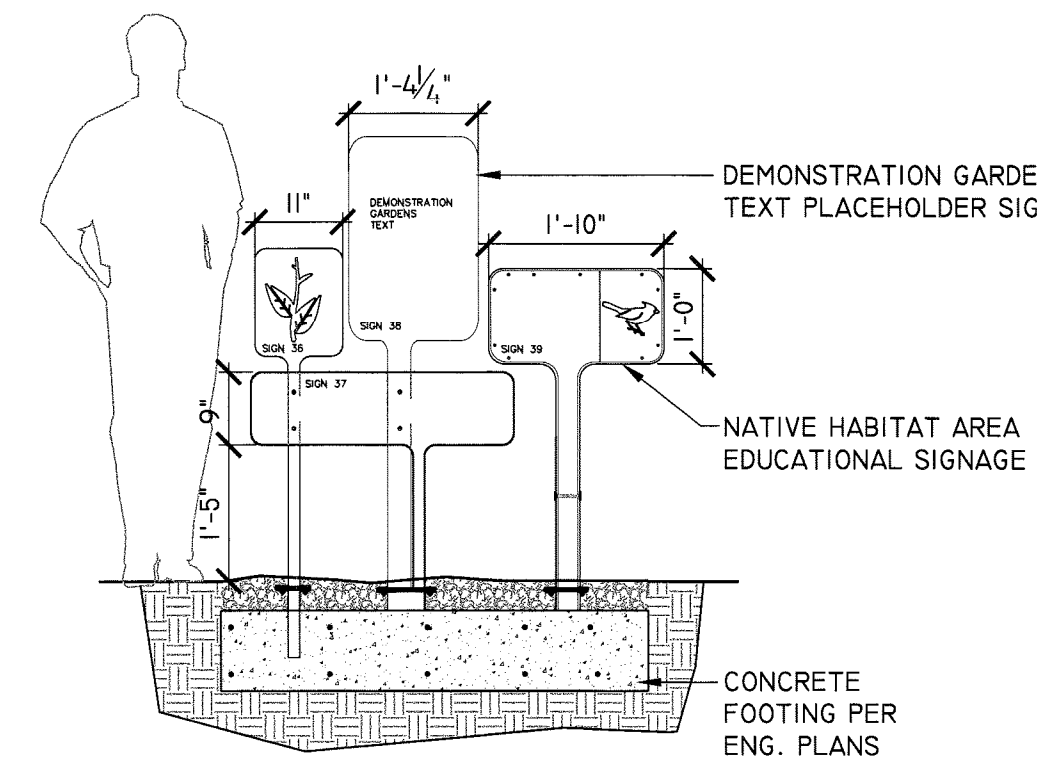


EDUCATIONAL SIGNAGE GROUP B - SECTION / ELEVATION

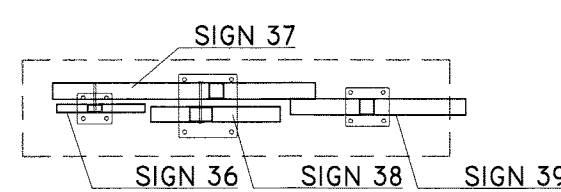


EDUCATIONAL SIGNAGE GROUP B - PLAN

2 EDUCATIONAL SIGN OPTION B
L9.0

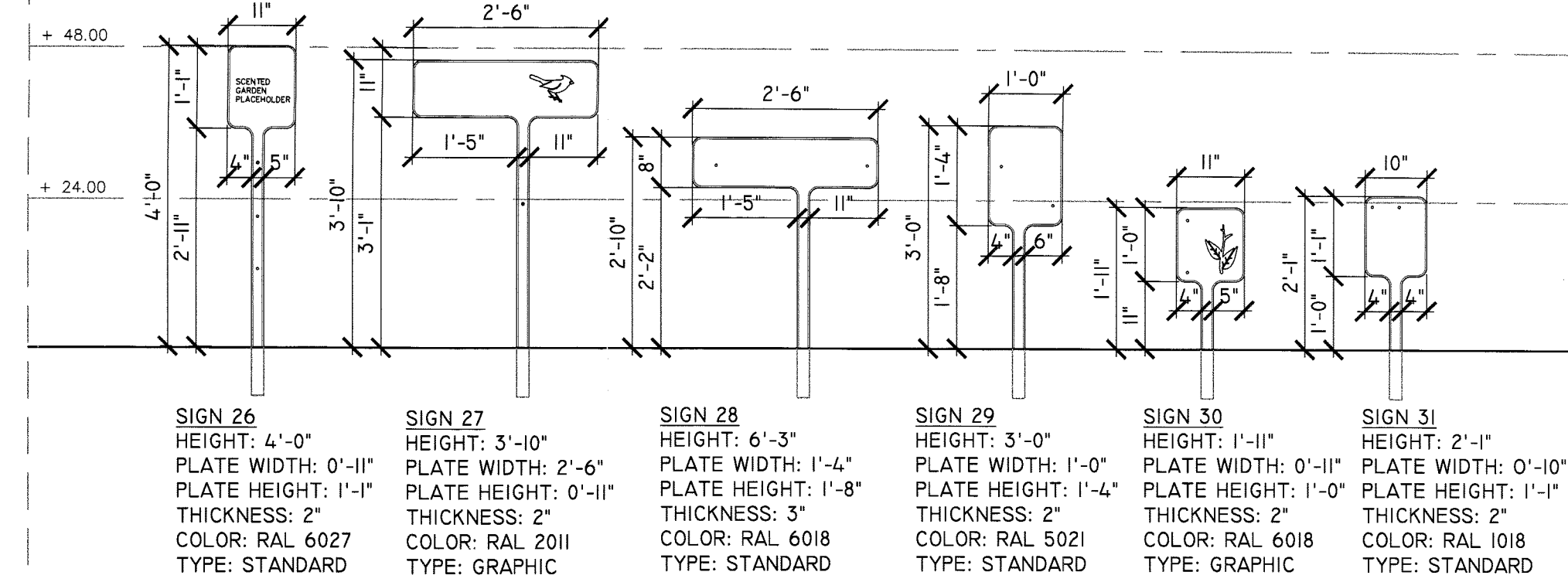


EDUCATIONAL SIGNAGE GROUP D - SECTION / ELEVATION



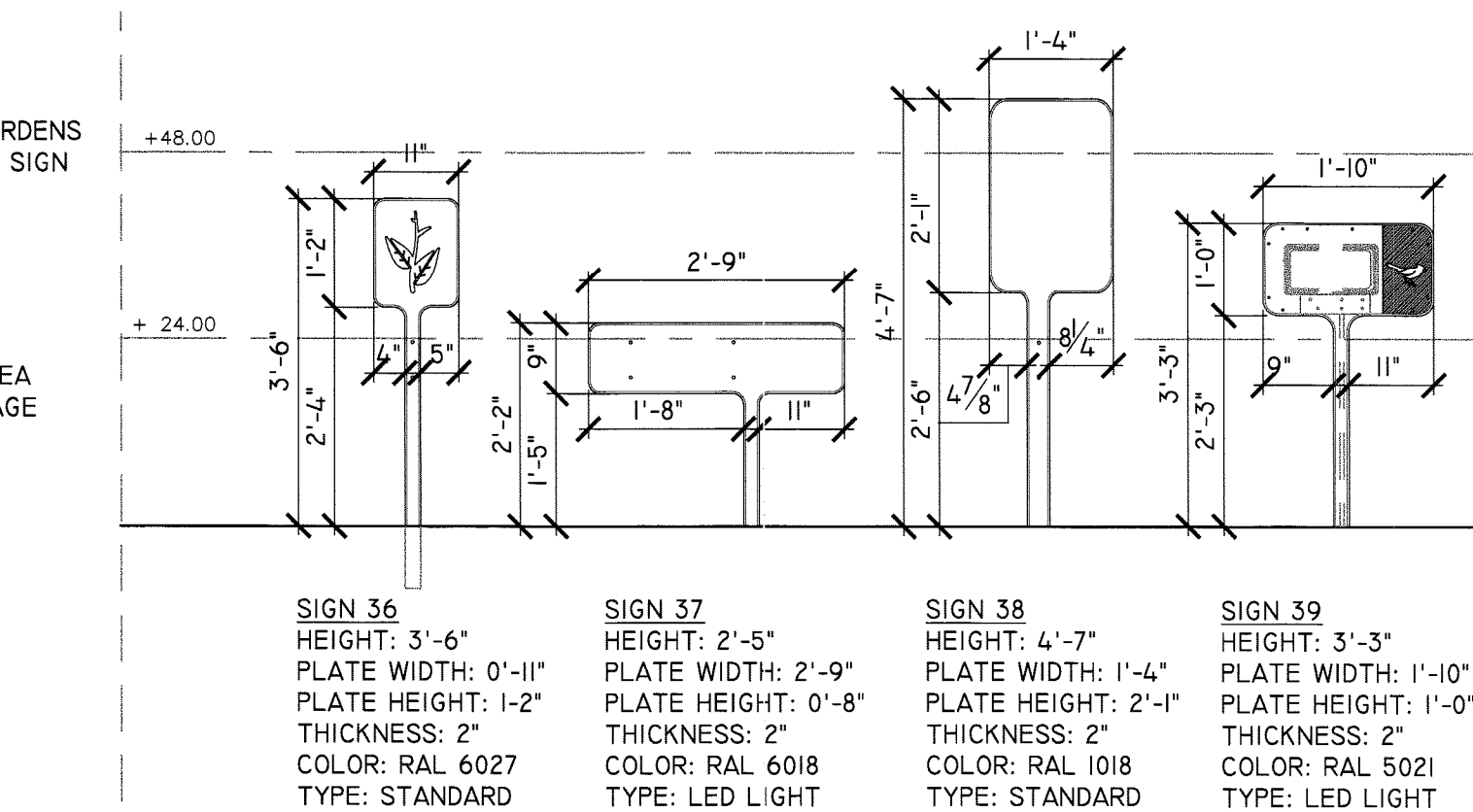
EDUCATIONAL SIGNAGE GROUP D - PLAN

4 EDUCATIONAL SIGN OPTION D
L9.0



EDUCATIONAL SIGNAGE GROUP B - ELEVATION

DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"



EDUCATIONAL SIGNAGE GROUP D - ELEVATION

DESIGN\CAD\CDS\DETAILS
1/2" = 1'-0"

NOTES:

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Approvals	Date
<i>Dinesh Tikrani</i>	1/25/12
Department Director	
<i>J. D. Hu</i>	1/25/12
Park Development Division Chief	
<i>[Signature]</i>	1/20/12
Design Unit Supervisor	

Revisions	Date
△ PER ZONING REVIEW	9/14/11
△ PER DES REVIEW	10/12/11
△ PER PRCR REVIEW	12/22/11

Designed: TB
Drawn: TB
Checked: BG

Filename: Details_R.dwg
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 24 MARCH, 2011

Seal



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division
2100 Clarendon Boulevard, Suite 414
Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location

13th & Herndon
Park Improvements

Sheet Title

Park Signage -
Solar Options

Approvals Date

Dinesh Tiwari 1/25/12
Department Director

J. D. [Signature] 1/25/12
Park Development Division Chief

[Signature] 1/20/12
Design Unit Supervisor

Revisions Date

△ PER ZONING REVIEW 9/14/11
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△ PER PRCR REVIEW 12/22/11

Designed: TB
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Checked: CHECK

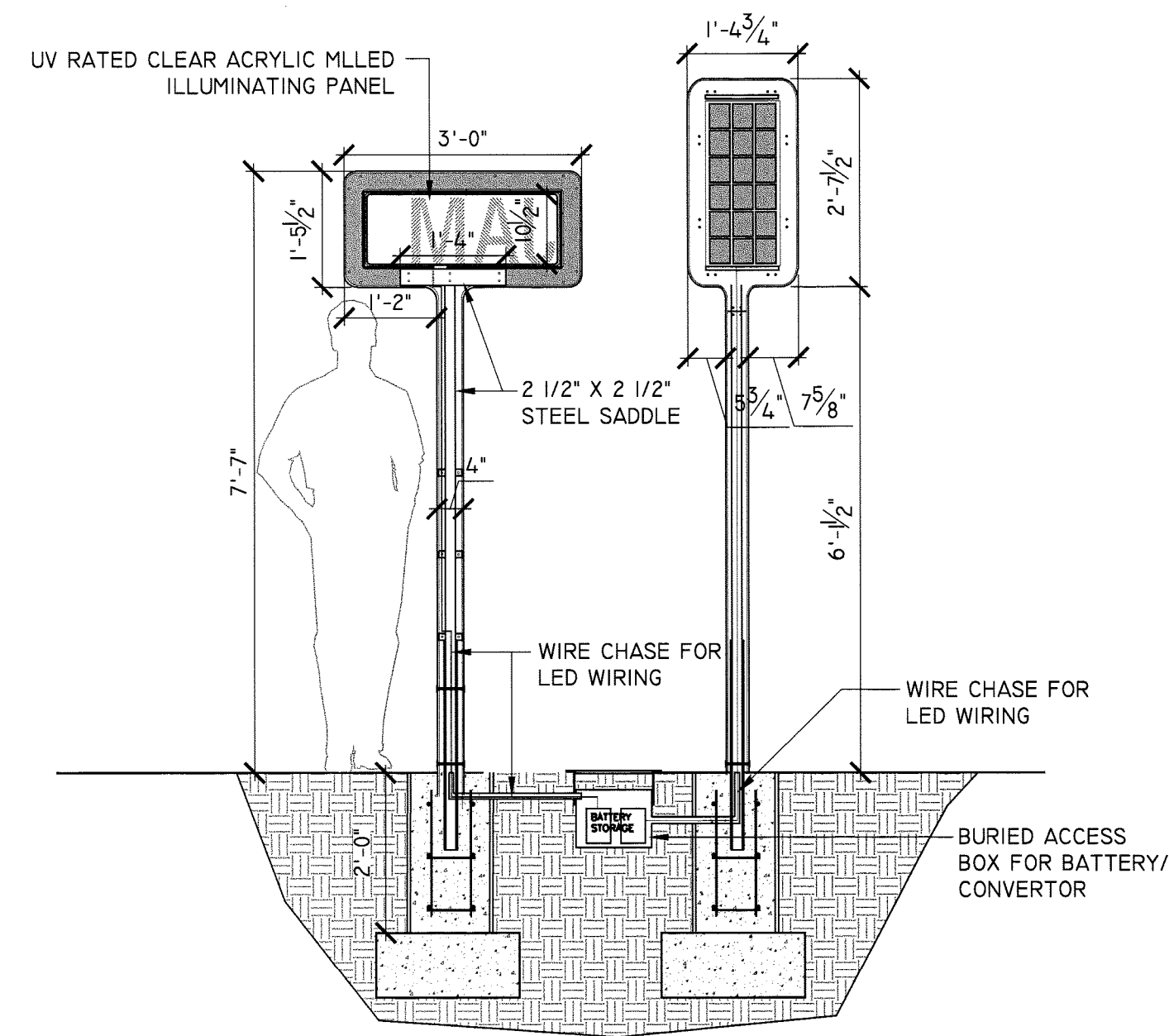
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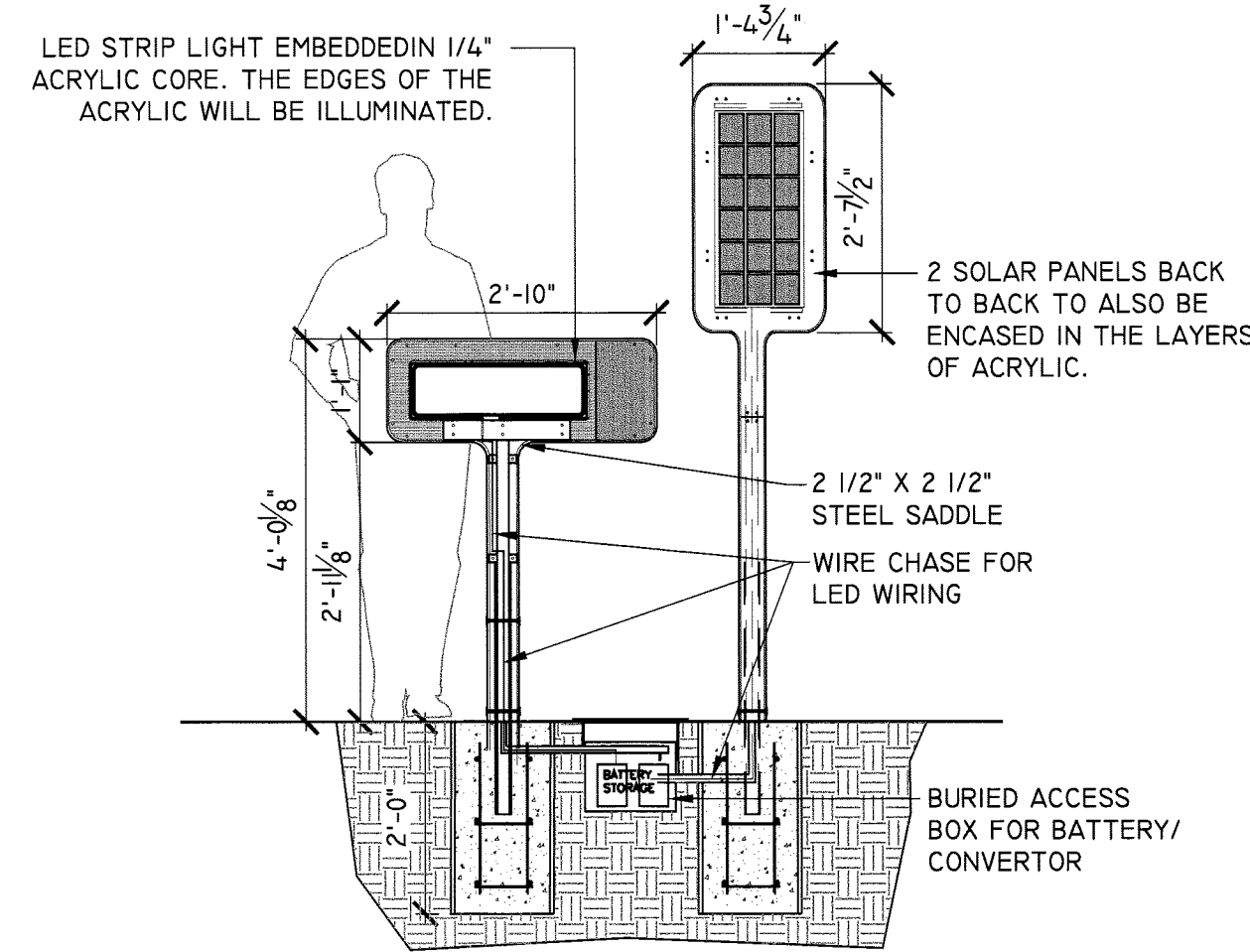
Seal

Sheet 35 of 39

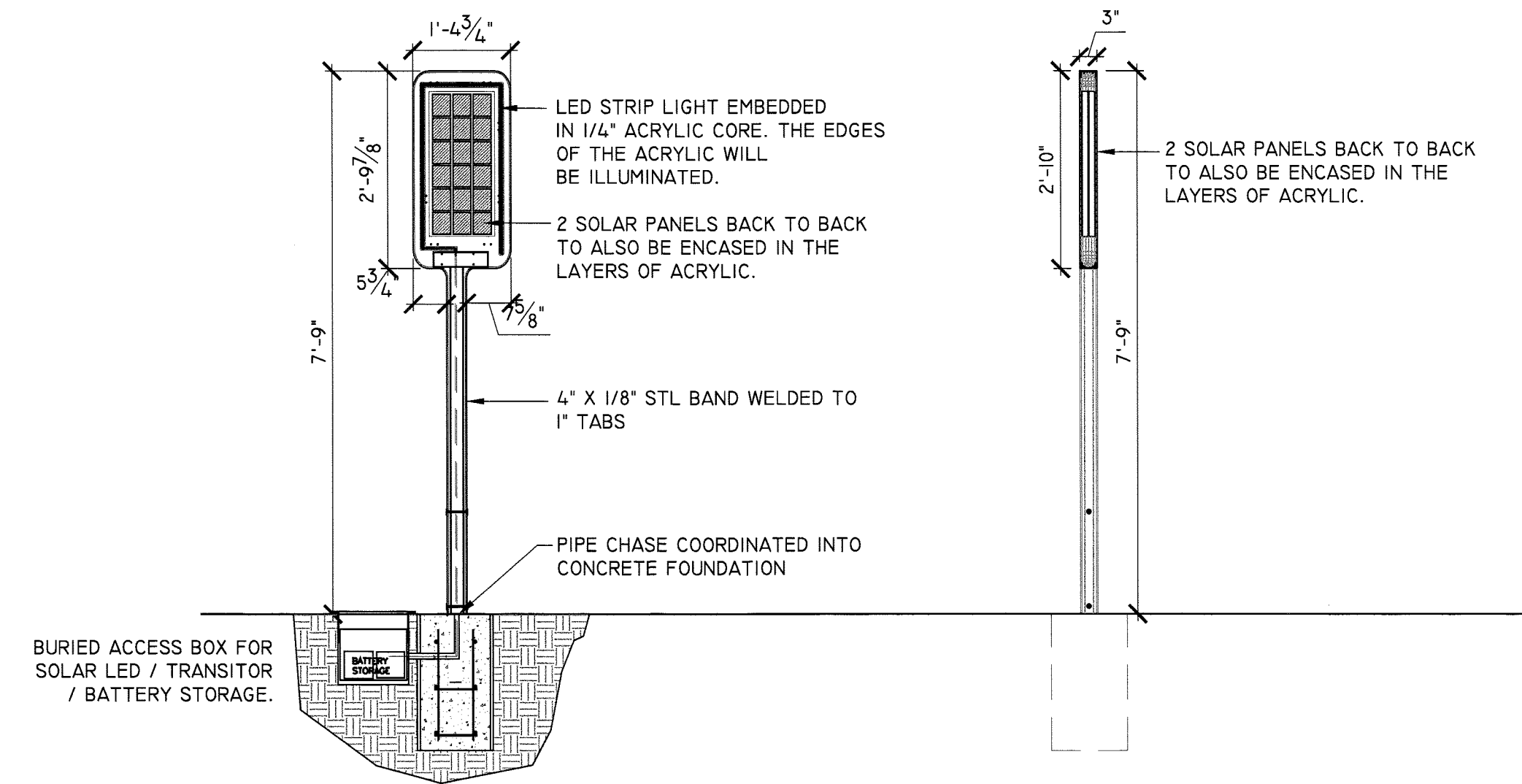
L-9.1



SOLAR / LED COMBO - TALL OPTION

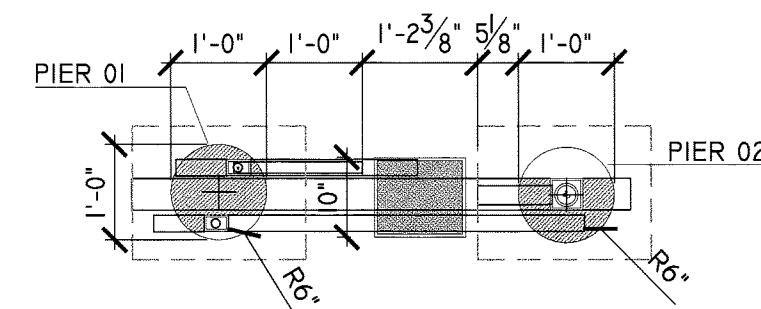


SOLAR / LED COMBO - MEDIUM OPTION



SOLAR / LED SIGN - SECTION

SOLAR / LED SIGN - SIDE ELEVATION



SOLAR / LED COMBO - PLAN

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Approvals _____ Date _____
Dinesh Tikswani 1/25/12
Department Director
[Signature] 1/25/12
Park Development Division Chief
[Signature] 1/20/12
Design Unit Supervisor

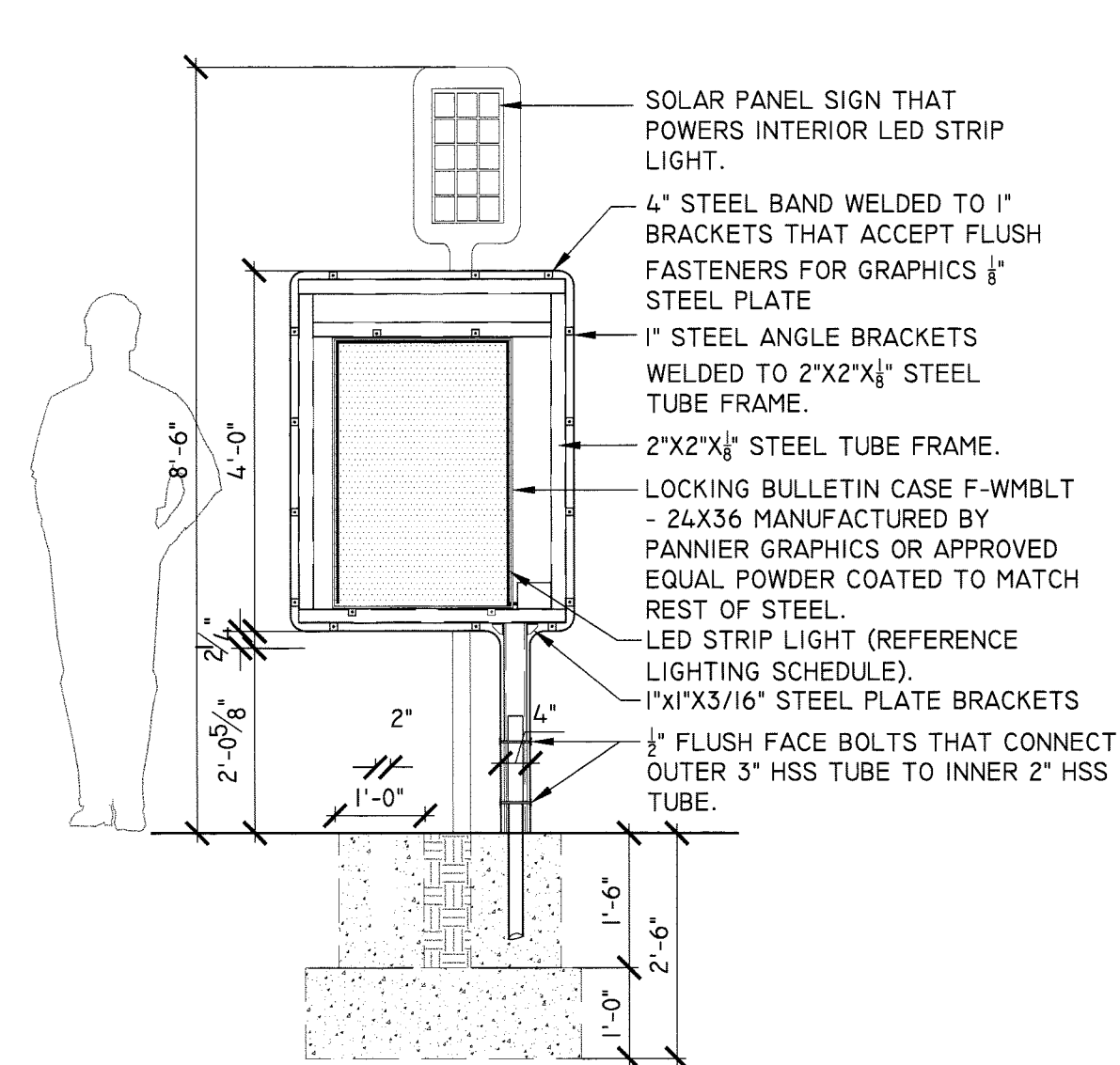
Revisions	Date
△ PER ZONING REVIEW	9/14/11
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△ PER PRCR REVIEW	12/22/11

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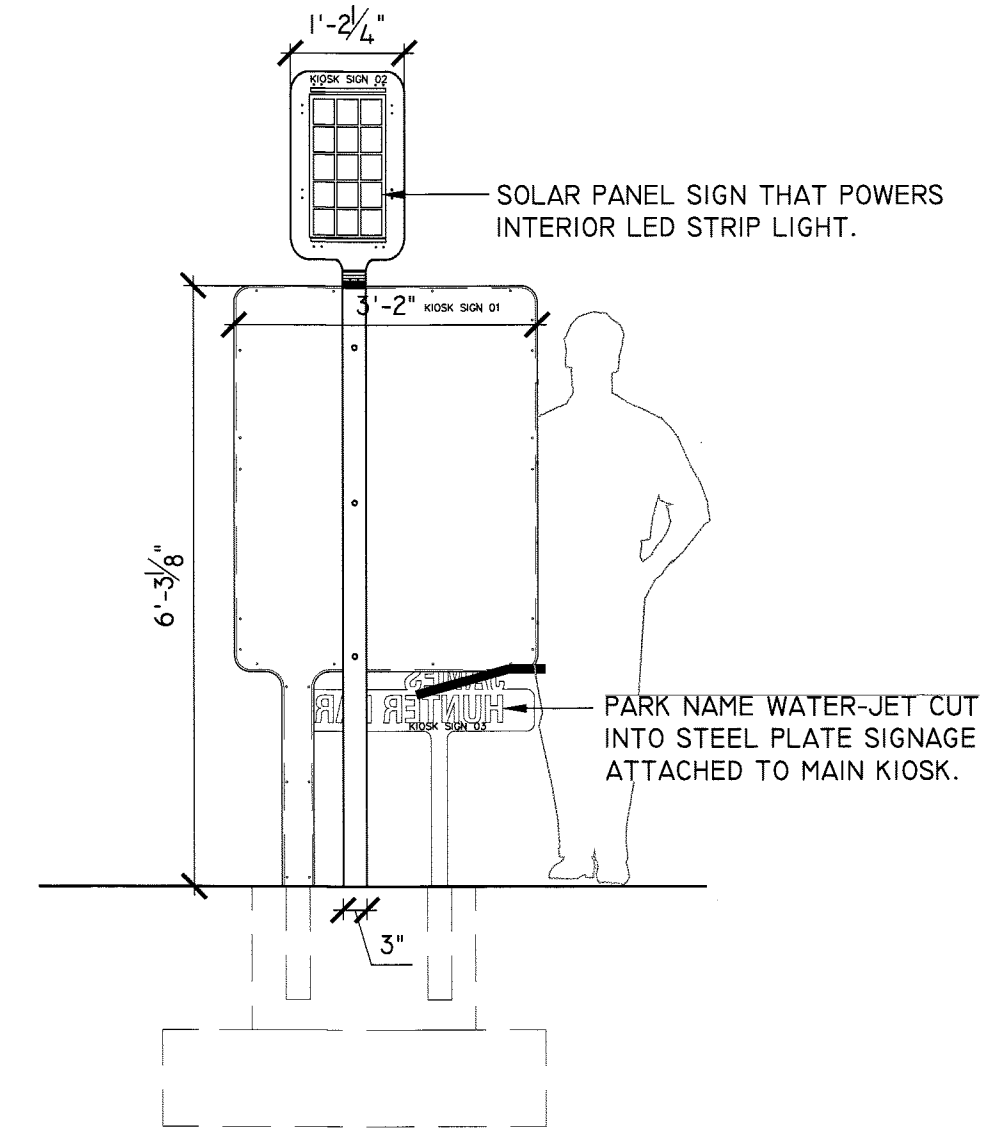
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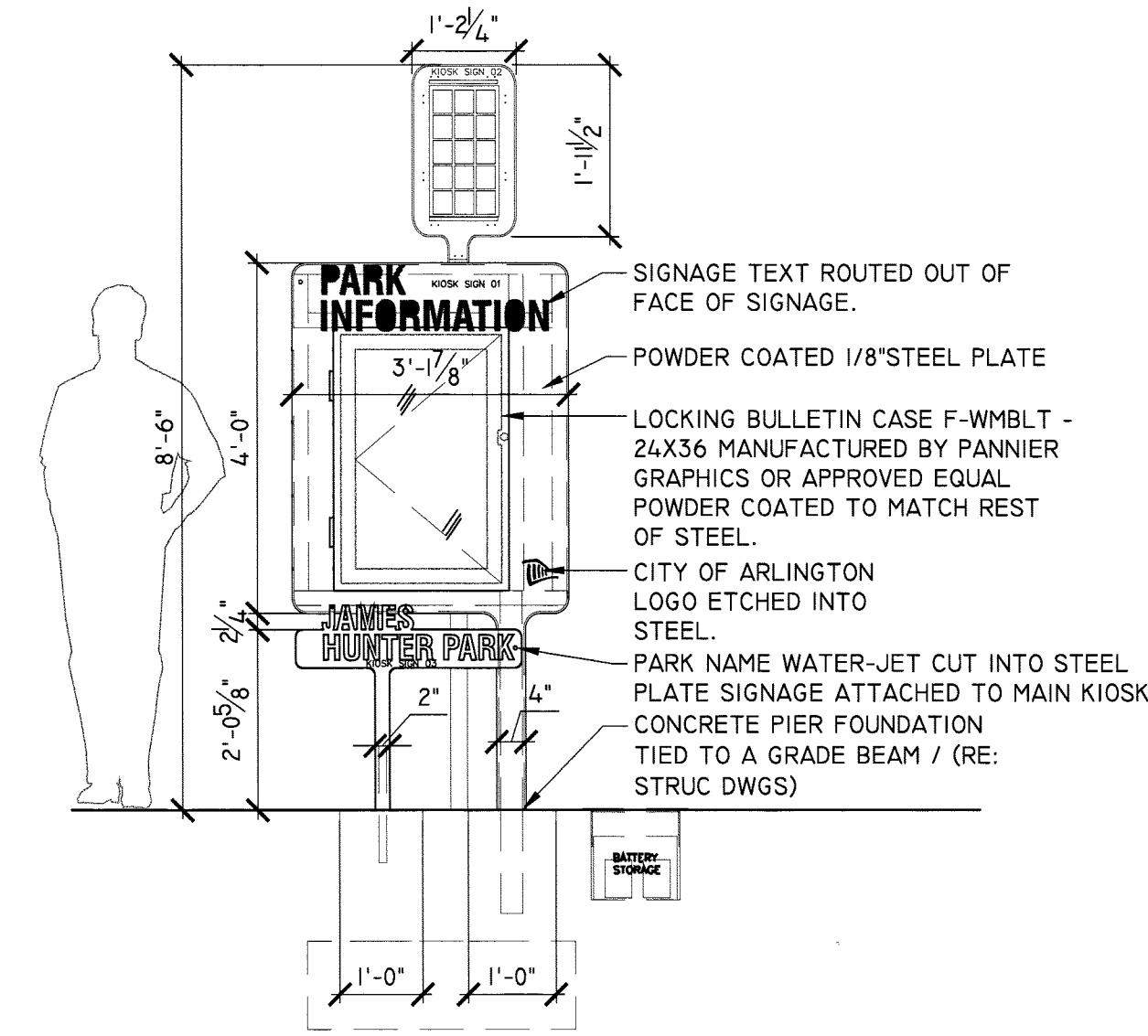
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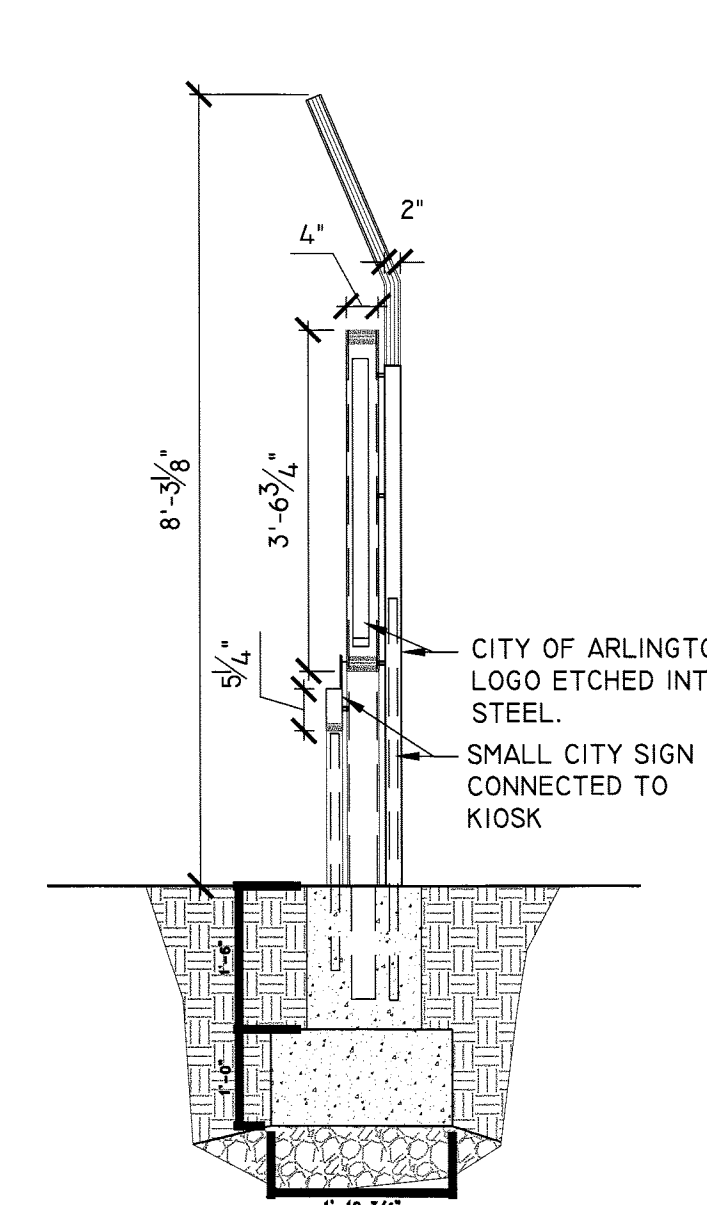
KIOSK - SECTION THROUGH SIGN / FOUNDATION



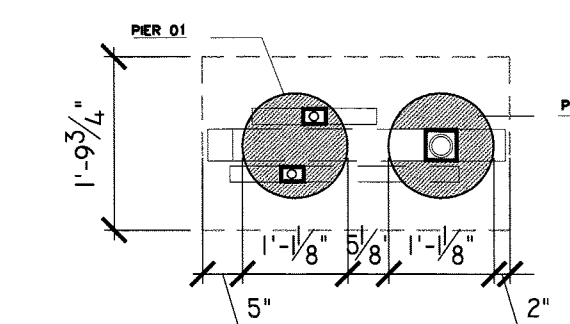
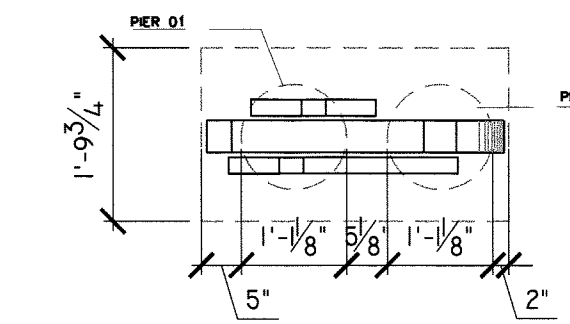
KIOSK - BACK ELEVATION



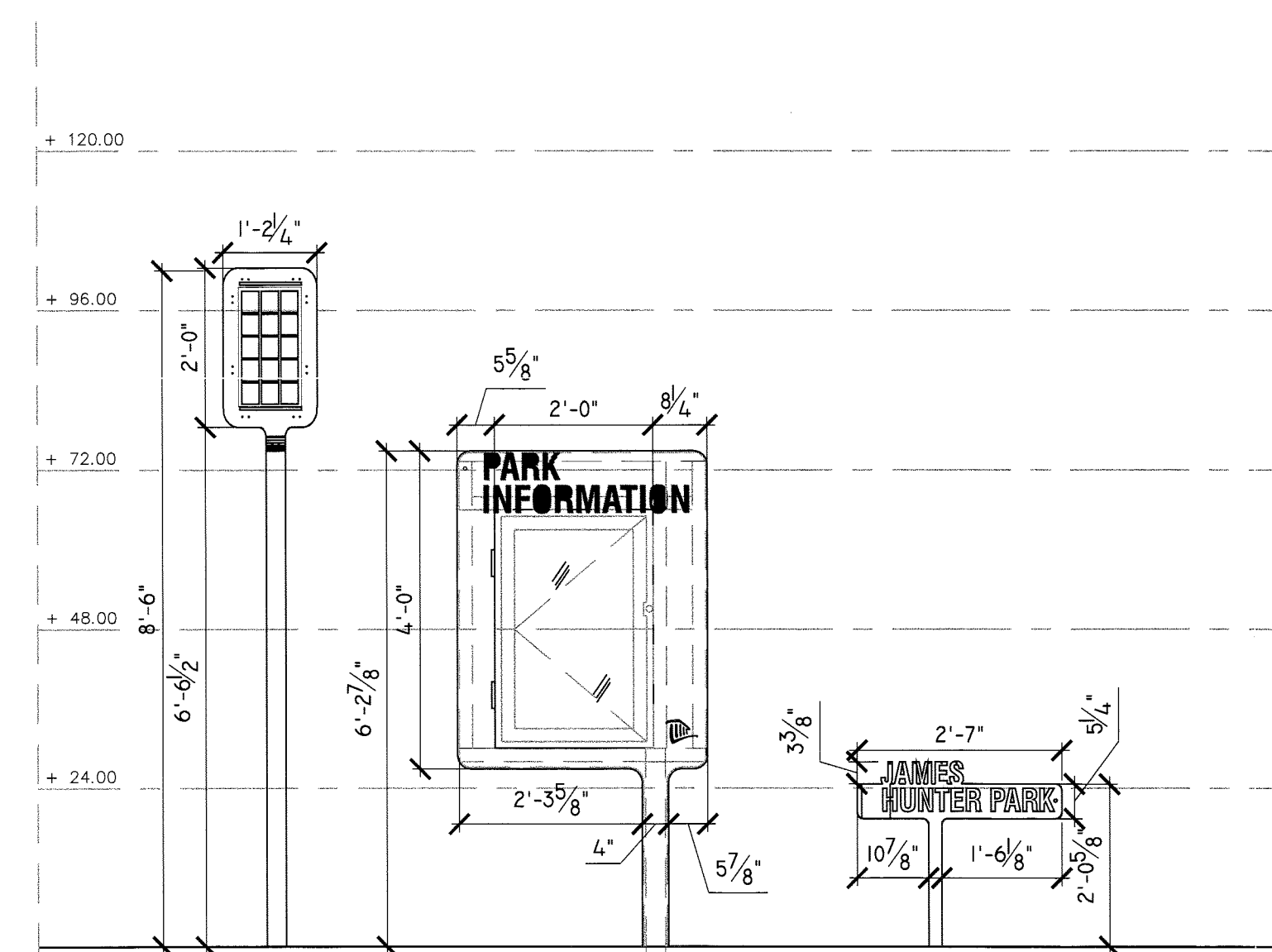
KIOSK - FRONT ELEVATION



KIOSK - SIDE ELEVATION



KIOSK - FOUNDATION PLAN



KIOSK SIGN 02
HEIGHT: 8'-6"
PLATE WIDTH: 1'-3"
PLATE HEIGHT: 2'-0"
THICKNESS: 4"
COLOR: RAL 6018
TYPE: SOLAR

KIOSK SIGN 01
HEIGHT: 6'-3"
PLATE WIDTH: 1'-3"
PLATE HEIGHT: 0'-9"
THICKNESS: 4"
COLOR: RAL 6018
TYPE: KIOSK/LED STRIP LIGHT

KIOSK SIGN 03
HEIGHT: 6'-3"
PLATE WIDTH: 2'-7"
PLATE HEIGHT: 0'-9"
THICKNESS: 2"
COLOR: RAL 6018
TYPE: STANDARD SIGN

NOTES:

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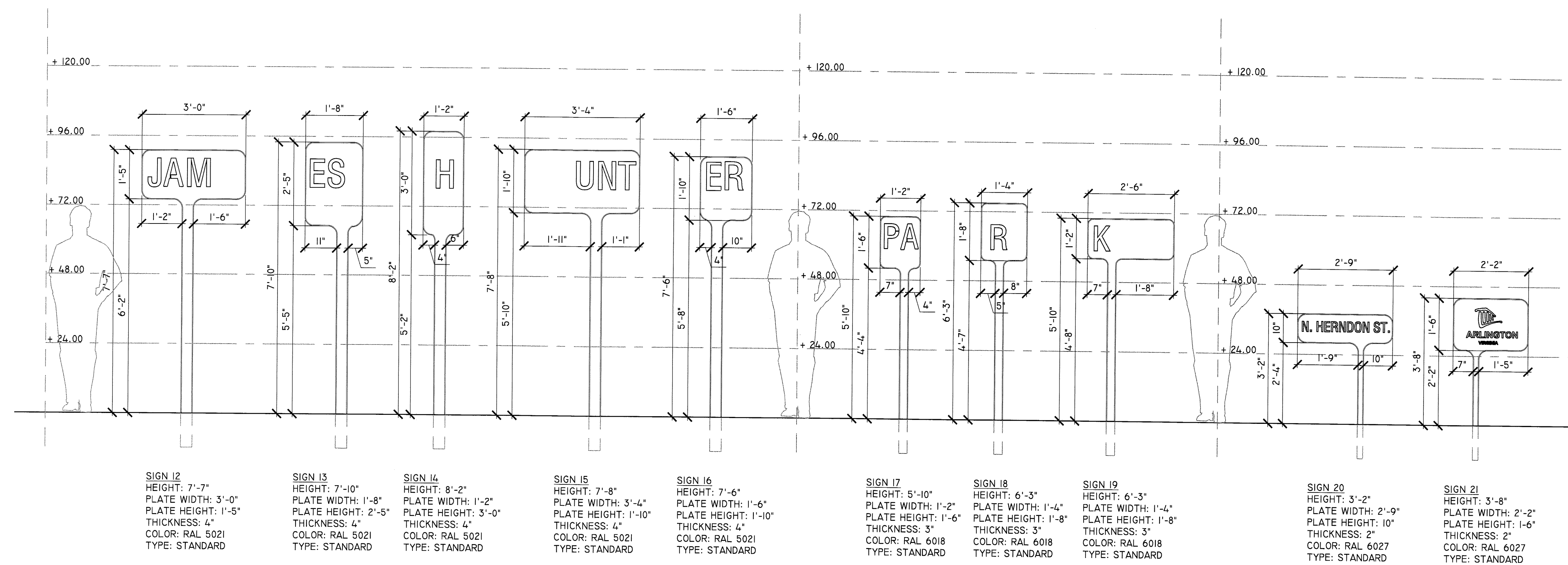
Revisions	Date
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Designed: TB
Drawn: TB
Checked: BG

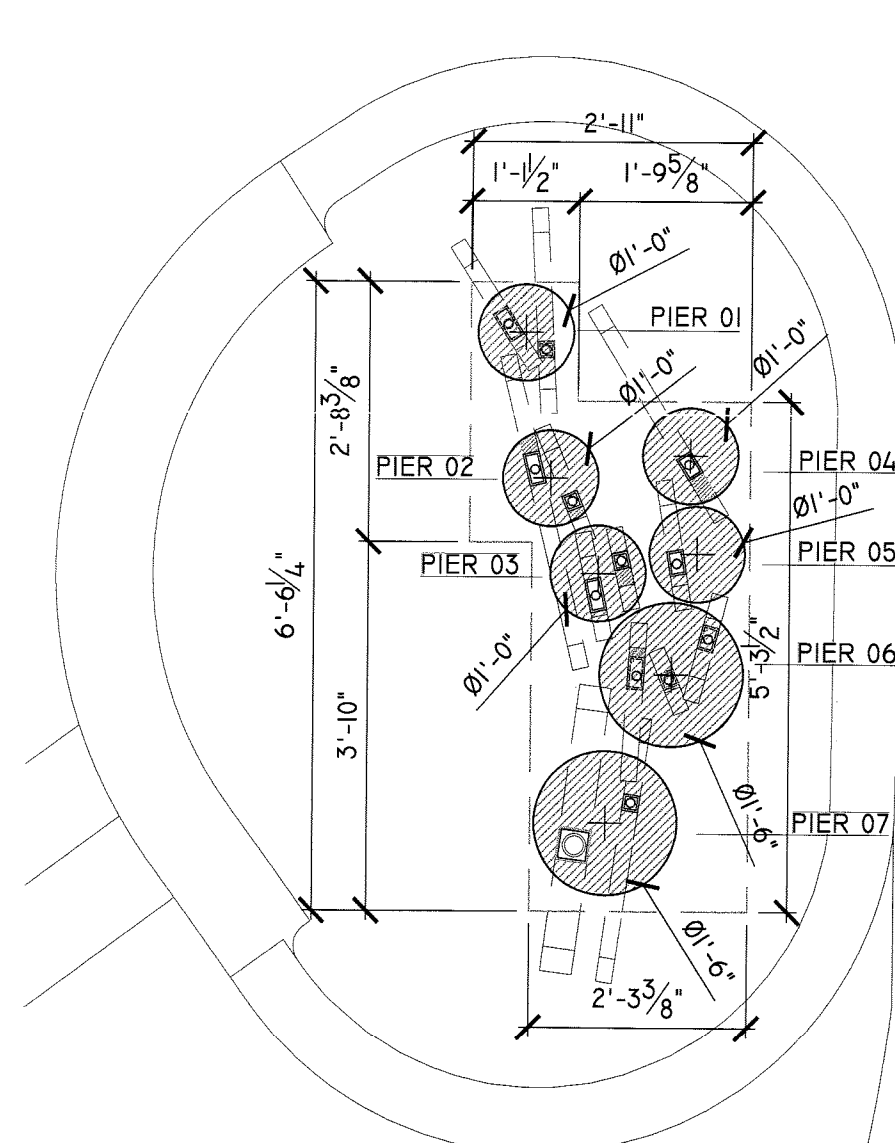
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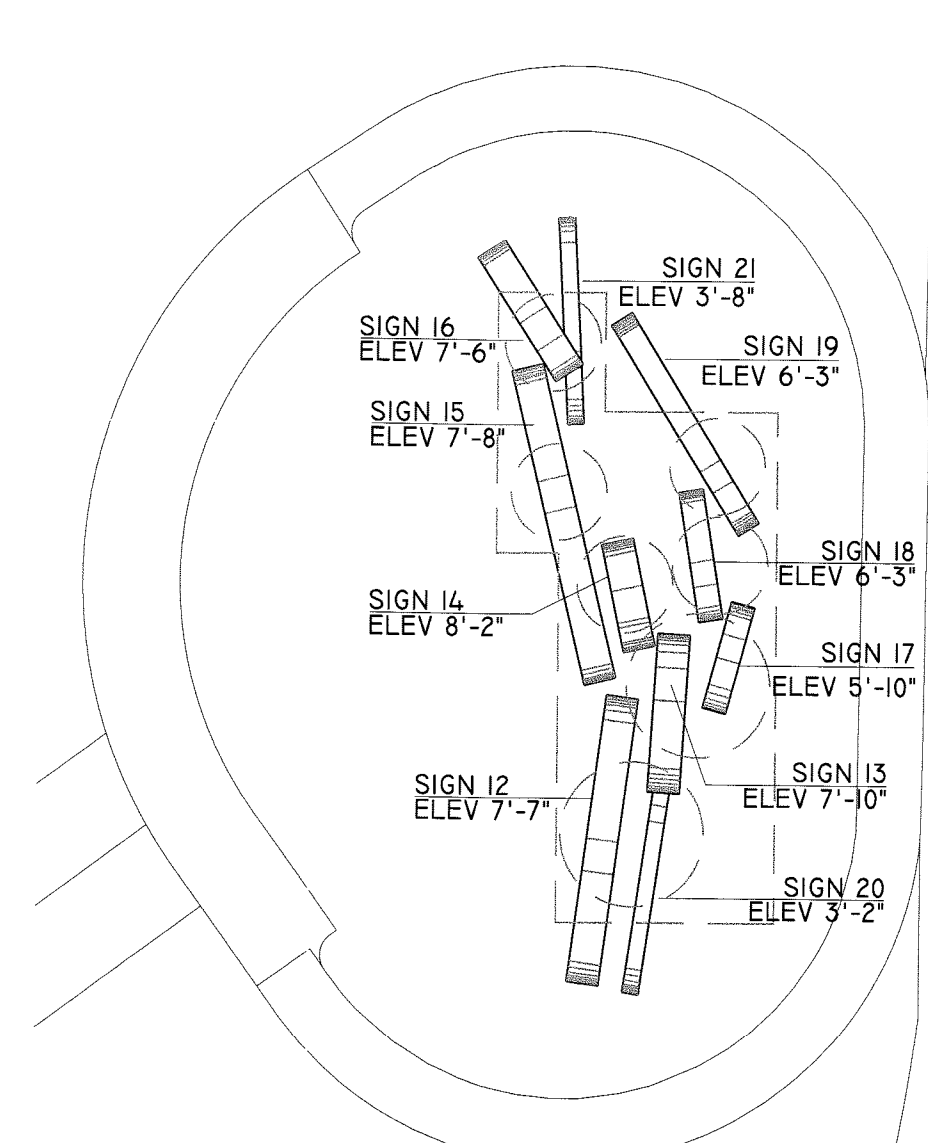
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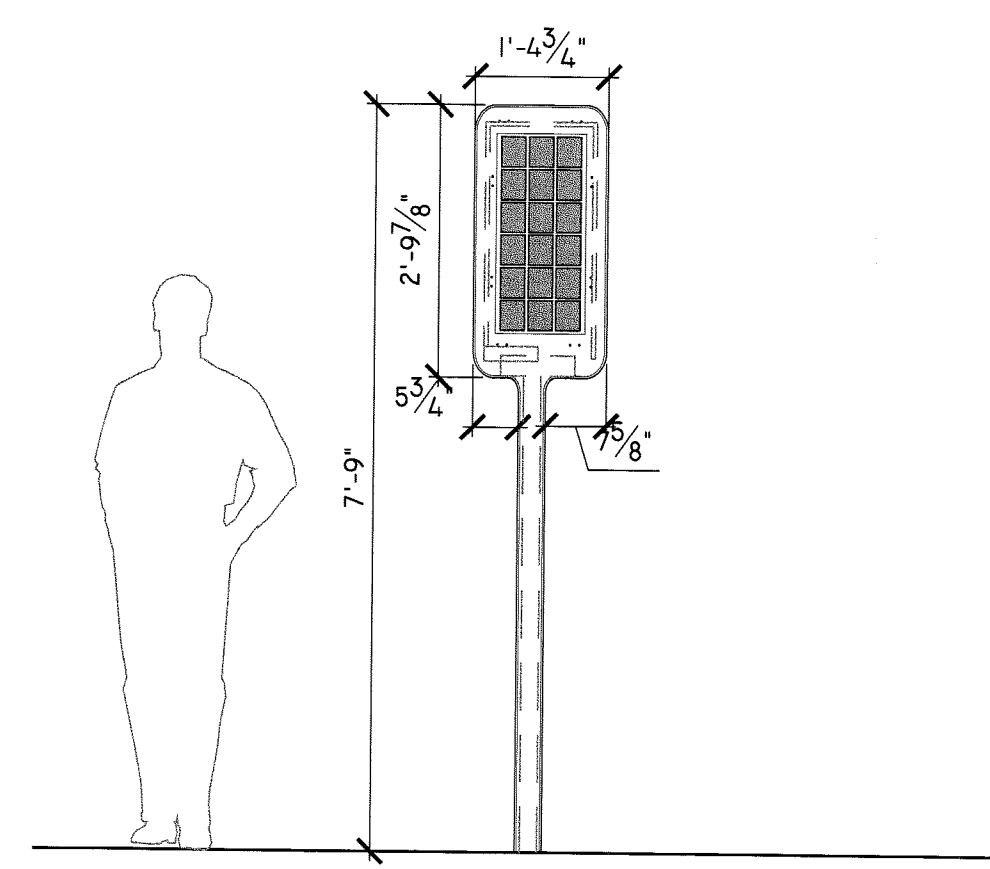
HERNDON MONUMENT - ELEVATION OF INDIVIDUAL SIGNS



HERNDON MONUMENT FOUNDATION PLAN



HERNDON MONUMENT PLAN



HERNDON SOLAR / LED - ELEVATION

NOTES:

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Arlington, VA 22201
Phone: 703.228.3323
Fax: 703.228.3328

IFB # 670-12

Project Name and Location

13th & Herndon
Park Improvements

Sheet Title

Park Signage -
Hartford Street
Monumentation

Approvals Date

Dinesh Tiwari 1/25/12
Department Director
J. D. Jh 1/25/12
Park Development Division Chief
[Signature] 1/29/12
Design Unit Supervisor

Revisions Date

△ PER ZONING REVIEW 9/14/11
△ PER DES REVIEW 10/12/11
△ PER PROR REVIEW 12/22/11

Designed: TB
Drawn: TB
Checked: BG

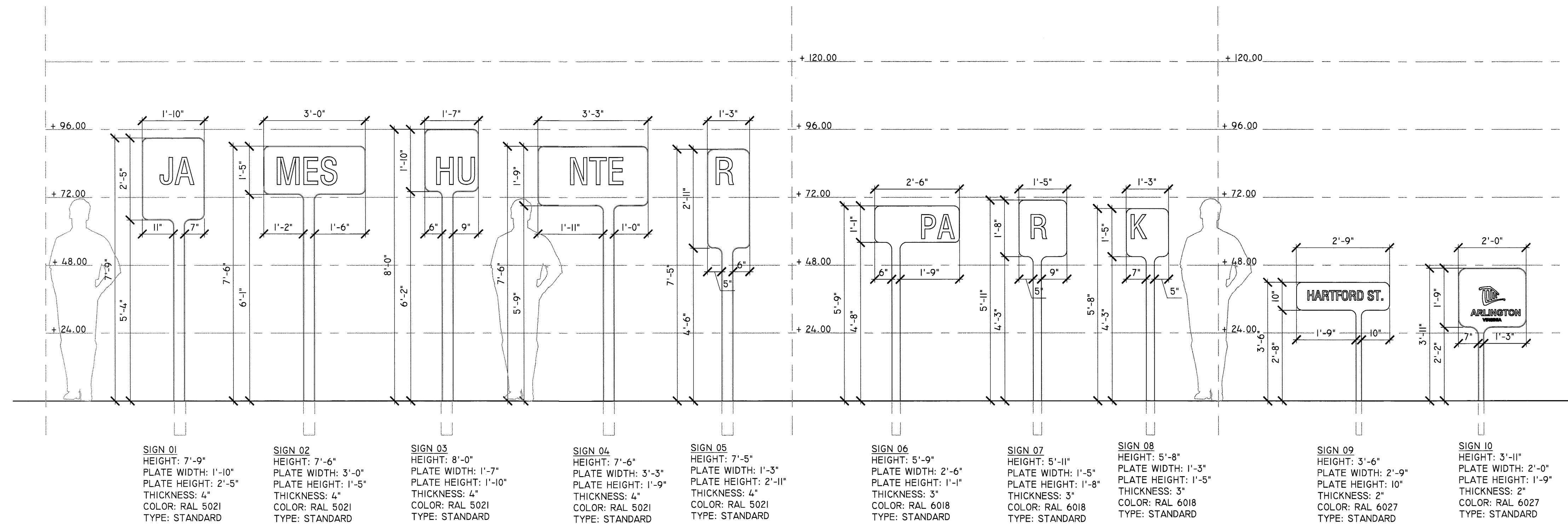
Filename: Details_R.dwg
Plotted: Jan 18, 2012

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Date: 24 MARCH, 2011

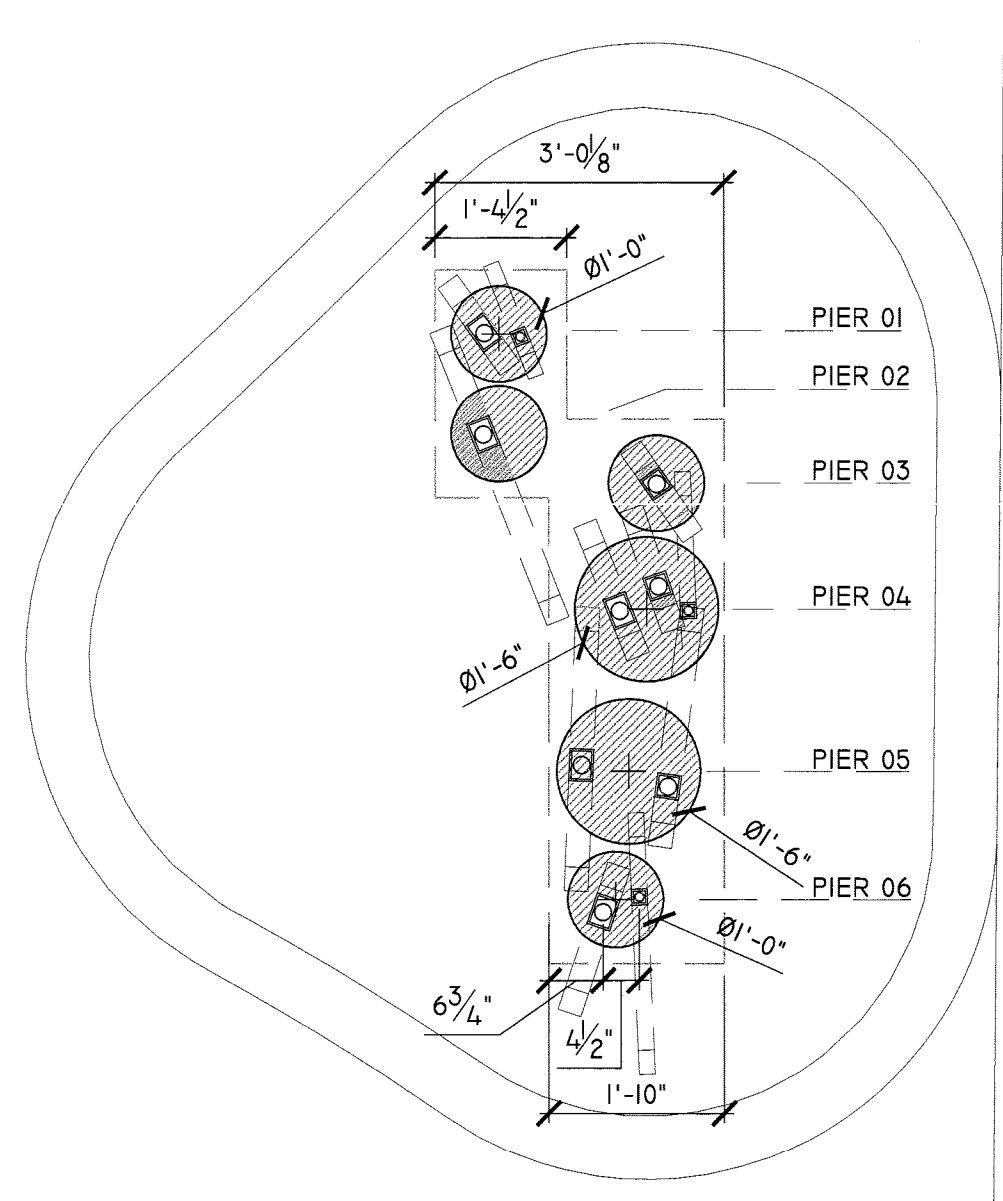
Seal

Sheet 38 of 39

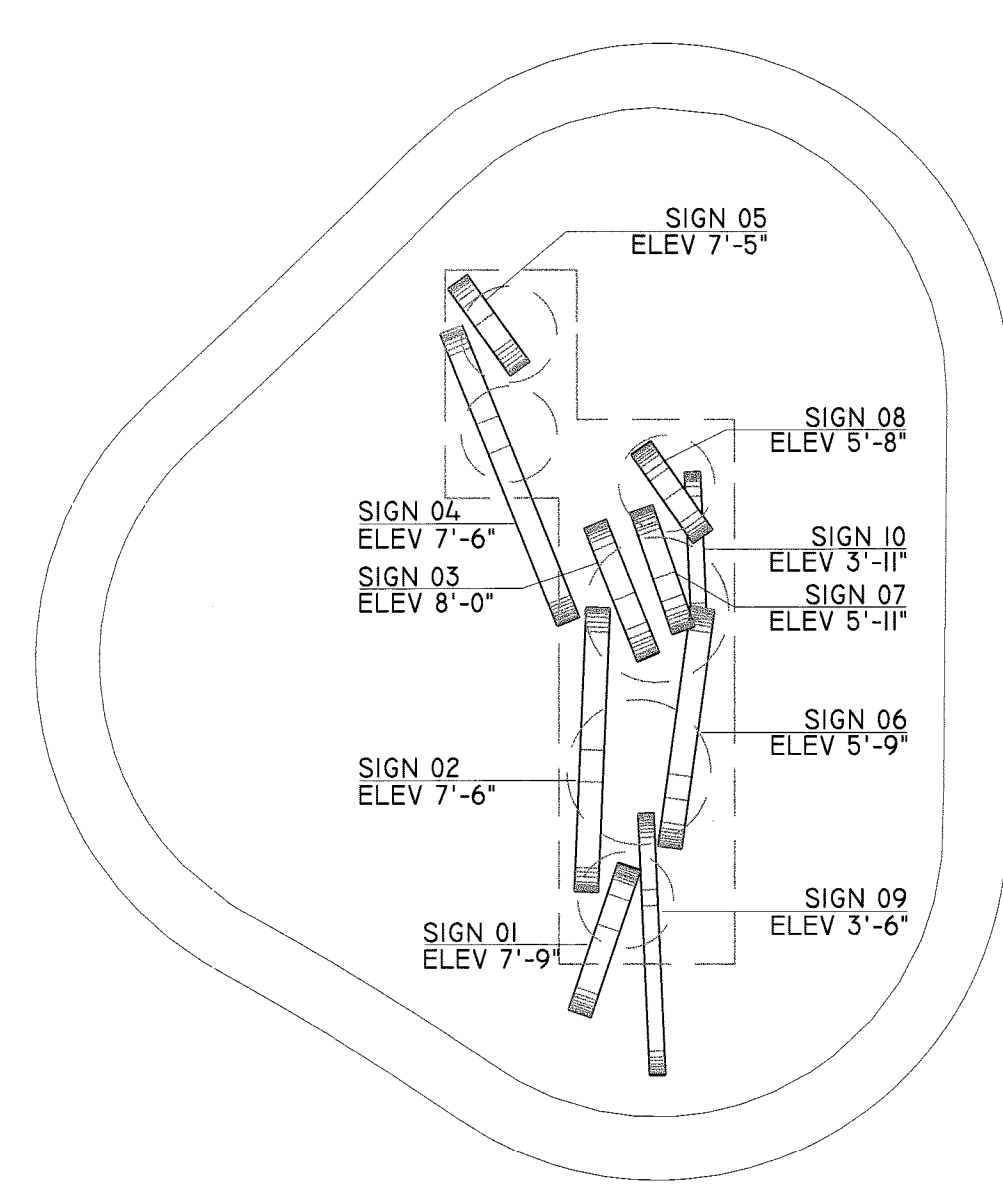
L-9.4



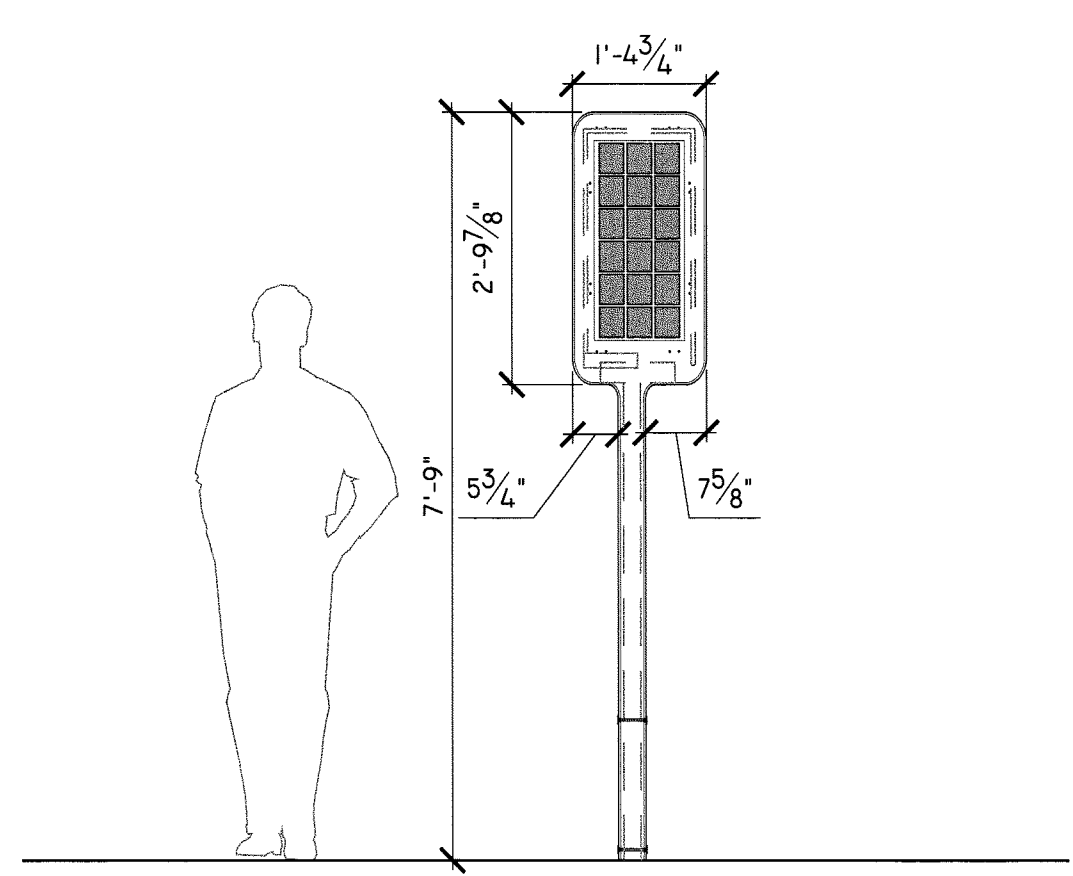
HARTFORD STREET - ELEVATION OF INDIVIDUAL SIGNS



HARTFORD MONUMENT FOUNDATION PLAN



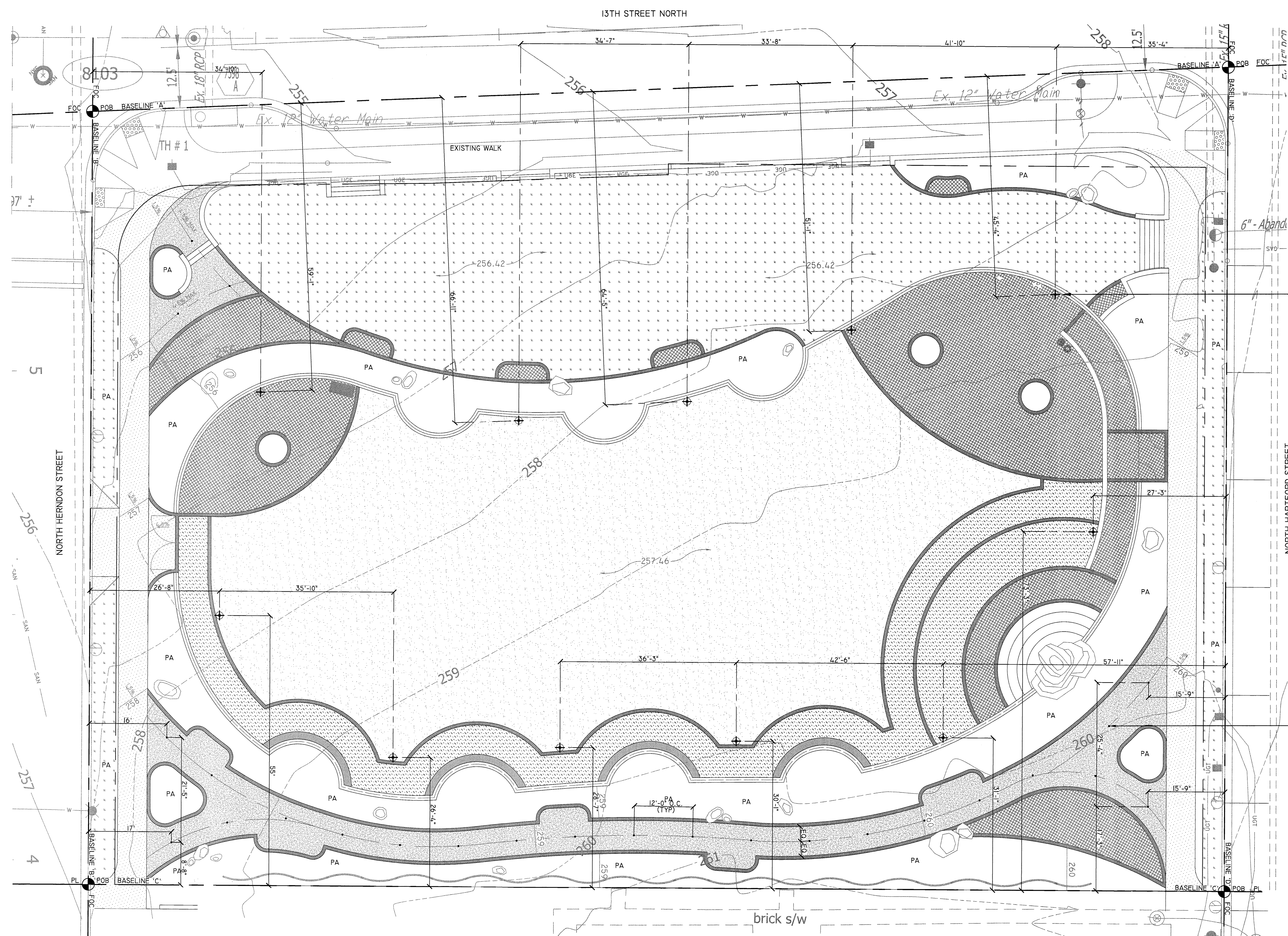
HARTFORD MONUMENT PLAN



HARTFORD SOLAR / LED - ELEVATION

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Approvals	Date
<i>Dinesh Tiwari</i>	1/25/12
Department Director	
<i>J. D. ...</i>	1/25/12
Park Development Division Chief	
<i>...</i>	1/25/12
Design Unit Supervisor	

Revisions	Date
▲	
▲	
▲	

Designed: AW
Drawn: AW
Checked: BG

Filename: Lighting Layout_R.dwg
Plotted: Jan 18, 2012

Scale: AS SHOWN
Date: 24 MARCH, 2011

Seal

Sheet 39 of 39
L-10.0

LEGEND

● POINT OF BEGINNING (SEE NOTE #1)

LAYOUT NOTES

- THE POINT OF BEGINNING (POB) SHALL BE THE INTERSECTION OF THE CURB FACES AND PROPERTY LINE, AS SHOWN ON THE DRAWING.
- FOR THE PURPOSES OF THIS LAYOUT, BASELINE 'A' SHALL BE ALIGNED WITH THE FACE OF CURB AT 13TH STREET N., AND BASELINE 'B' SHALL BE ALIGNED WITH FACE OF CURB AT N. HERNDON ST., PERPENDICULAR TO BASELINE 'A'.
- REFER TO ENGINEERING PLANS AND SPECIFICATIONS, SHEETS E-0.1 AND S-1.1 FOR FURTHER INFORMATION.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, SPOT ELEVATIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR PERFORMING THE WORK IN ACCORDANCE WITH THE SAME. CONTRACTOR SHALL NOTIFY PROJECT OFFICER OF ANY DISCREPANCIES, PRIOR TO COMMENCING WITH WORK.
- THE CONTRACTOR SHALL STAKE THE ALIGNMENT OF ALL LIGHTING IN THE FIELD FOR APPROVAL BY THE PROJECT OFFICER PRIOR TO INSTALLATION. NO CHANGES SHALL BE MADE TO THE DESIGN OR LAYOUT OF THE PROJECT WITHOUT WRITTEN APPROVAL BY THE PROJECT OFFICER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL INSTALL CONCRETE FOOTINGS PER ENGINEERING DETAILS AND COORDINATE INOVUS LUMINAIRE INSTALLATION WITH SUPPLIER. INSTALL ANCHOR BOLTS PER MANUFACTURER'S RECOMMENDATION FOR PROPER BOLT PATTERN ALIGNMENT AND LUMINAIRE ORIENTATION ON CONCRETE BASE.

FIXTURE TYPE 'B' (INOVUS SOLAR) - REFER TO ENGINEERING DETAILS AND SPECIFICATIONS, SHEETS E-001 AND S-101 (TYP)

FIXTURE TYPE 'A' (SOLAR CYNERGY) PATH LIGHT @ 12' O.C. - REFER TO ENGINEERING DETAIL AND SPECIFICATION, SHEET E-001 (TYP)

CONSTRUCTION ABBREVIATIONS (AS APPLICABLE)

ALIGN	ALIGNMENT
BBQ	BARBECUE
BS	BOTTOM OF STEP
C/L	CENTERLINE
COC	CENTERLINE OF COLUMN
CONC	CONCRETE
DIA	DIAMETER
ELEV	ELEVATION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOW LINE
FOC	FACE OF CURB
FOW	FACE OF WALL
FS	FINISH SURFACE
PA	PLANTING AREA
PAD	PAD
PL	PROPERTY LINE
POB	POINT OF BEGINNING
R	RADIUS
RIM	RIM
SHT	SHEET
SQ	SQUARE
ST	STEP(S)
SYM	SYMBOL
TC	TOP OF CURB
TOC	TOP OF COLUMN
TS	TOP OF STEP
TYP	TYPICAL
TW	TOP OF WALL
*	SPOT ELEVATION PER SURVEY

