

Contract #: C203202 - RA Haywood County / I-40 Rest Area Renovation & New Construction

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**HAYWOOD COUNTY**

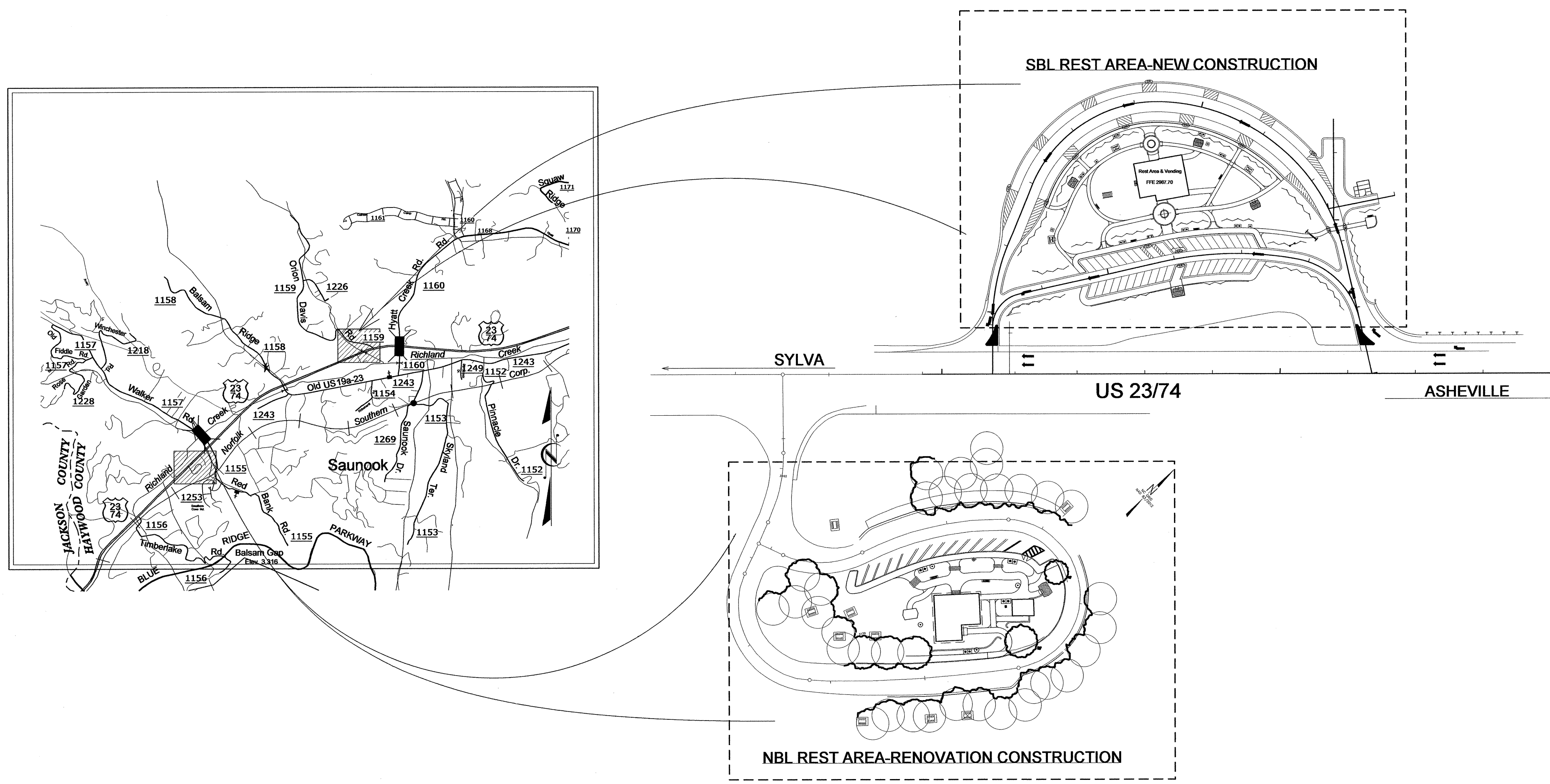
Location: US 23 & 74 - SBL Rest Area On New Location & Existing NBL Rest Area

Type of Work: Construction of New SBL Rest Area Site and Building,  
Restoration of Existing NBL Building and Site Work

STATE	NC	T.J.P. #	K5002	SHEET #	L1 of 30
WBS #	39977.1.1	F.A. Project #		Description	P.E.
				RAW	
				CONSTR.	

Project Legend(s)

County Line	---
City or Town Line	---
Exist. Right of Way Line Marker	---
Prop. Right of Way Line Marker (By Others)	---
Prop Right of Way Line Marker (By Contract)	---
Exist. Control of Access Line	---
Prop. Control of Access Line	---
Property Line	---
Easement Line	---
Slope Stake Line	---
Exist. Fence	---
Prop. Woven Wire Fence	---
Prop. Chain Link Fence	---
Exist. Road	---
Prop. Road	---
Guardrail	---
Survey Line	---
Denotes Line Equality	---
Bridge	---
Culvert	---
Railroad	---
Woods	---
Exist. Telephone Pole	---
Prop. Telephone Pole	---
Tower Pole and Line	---
Exist. Power Pole	---
Prop. Power Pole	---
Sanitary Sewer Line	---
Water Line	---
Gas Line	---
Picnic Shelter	---
Regeneration	---
Reforestation	---
Large Deciduous Tree	---
Evergreen Tree	---
Small or Flowering Tree	---
Shrubs	---
Planting Bed	---



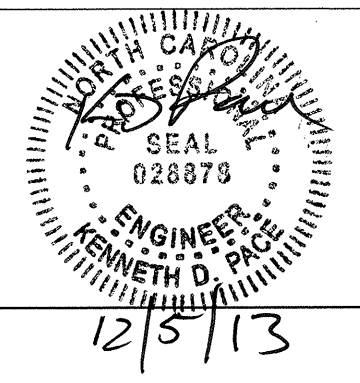
LEGEND NOTES:

CONSTRUCTION NOTE IDENTIFICATION

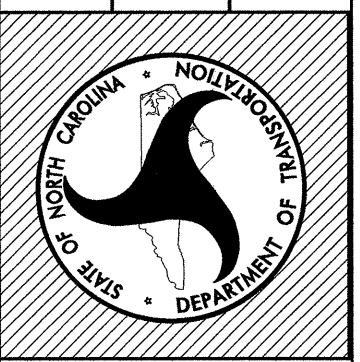
	PICNIC SHELTER & TABLE (HANDICAP) SEE SHEET LD5
	PICNIC SHELTER & TABLE - SEE SHEET LD5
	BENCH SEAT - SEE SHEET LD13
	PARK STOVE - SEE SHEET LD8
	WASTE CONTAINER ON PAD - LD8
	DEPRESSED CURB-LD3
	SITE SIGNAGE LOCATION - SEE SHEETS LD14, LD15
	WORMSTYLE FENCE - SEE SHEET LD13
	ROADWAY LIGHT
	POST TOP LIGHT
	YARD HYDRANT - SEE SHEET LD12
	PROPOSED CONTOURS
	EXISTING CONTOURS
	METAL EDGING-LD9

VICINITY MAPS

Site / Landscape Design	REST AREA PROJECT DEVELOPMENT	Architectural / Engineering	Plans Drawn By: J. Lackey
LANDSCAPE DESIGN & DEVELOPMENT	REST AREA SECTION	Architect: Weeks Turner Architecture 3305-109 Durham Drive Raleigh, NC 27603 919.779.9797	Scale n/a
Roadside Environmental Unit 1557 Mail Service Center Raleigh, North Carolina 27699-1557 Office (919) 733-2920 Fax (919) 733-9810	Roadside Environmental Unit 1557 Mail Service Center Raleigh, North Carolina 27699-1557 Office (919) 733-2920 Fax (919) 733-9810	Mechanical/Electrical/Plumbing.: McGill Associates 55 Broad Street Asheville, NC 828.252.0575	Date 11 / 5 / 13
			Letting Date November 5, 2013
			2012 Standard Specifications
			Sheet Description TITLE SHEET
			Sheet # L1



North Carolina Department of Transportation  
Division of Highways  
1 South Wilmington Street Raleigh, North Carolina



Plan:  
US 23/74-HAYWOOD COUNTY  
Rest Area Construction SBL &  
Rest Area Renovations NBL

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- L7 -SBL LANDSCAPE PLAN
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- SEWER FORCE MAIN 2 PLAN - STA. 10+00 - STA. 15+00
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- C-103 ...SEWER FORCE MAIN 2 PLAN - STA. 15+00 - STA. 45+00
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- C-107 ...NORTHBOUND REST AREA SITE PLAN
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- C-109 ...ODOR CONTROL BUILDING PLAN AND ELEVATIONS
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- PLAN AND SECTION
- C-502 ...SOUTHBOUND REST AREA SEWER PUMP STATION
- PLAN AND SECTION
- C-503 ...MISCELLANEOUS DETAILS
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- C-506 ...MISCELLANEOUS DETAILS
- C-507 ...MISCELLANEOUS DETAILS
- E-001 ...ELECTRICAL LEGEND, NOTES, SCHEDULES
- AND ABBREVIATIONS
- E-101 ...NORTHBOUND REST AREA PUMP STATION
- E-102 ...SOUTHBOUND REST AREA PUMP STATION
- E-501 ...ELECTRICAL DETAILS

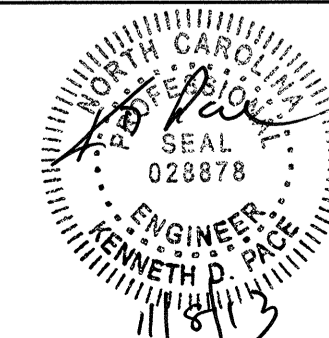
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**HAYWOOD COUNTY**

NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
LANDSCAPE DESIGN & DEVELOPMENT  
1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557  
PH: 919-707-2920 FAX: 919-733-9810  
[http://www.ncdot.org/doh/operations/dp.chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp.chief_eng/roadside/)

US 23 / 74 -SBL & NBL Rest Area Development  
Haywood County, North Carolina

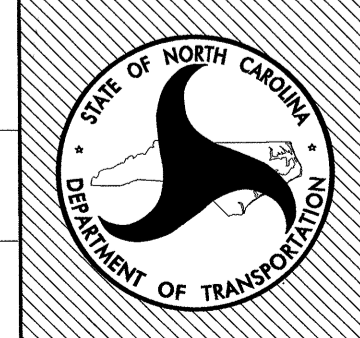
project #: K-5002 / CONTRACT C203202



sheet description:

Design & Development Plans  
Index of Sheets

prel design date:  
checked by & date :  
final design date :



sheet no :  
**L2**  
total sheet no : 30



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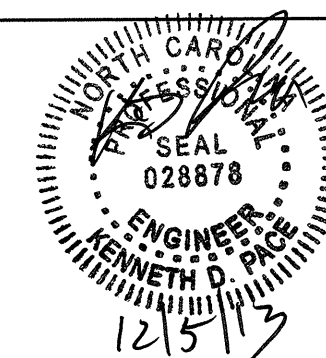
# HAYWOOD COUNTY

QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	REMARKS
<b>Small Flowering Trees (LARGE)</b>						
35	EA	AGL	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2-21/2" Cal., B&B, Specimen	As Shown
21	EA	CCL	<i>Cercis canadensis</i>	Redbud	2-21/2" Cal., B&B, Single Stem Specimen	As Shown
30	EA	CFL	<i>Cornus florida</i> 'Cherokee Princess'	Cherokee Princess Dogwood	2-21/2" Cal., B&B, Specimen	As Shown
<b>Evergreen Trees (LARGE)</b>						
19	EA	AFL	<i>Abies fraseri</i>	Fraser Fir	6-8', B&B, Specimen 3.2.4	As Shown
8	EA	INL	<i>Ilex x Nellie R. Stevens</i>	Nellie R. Stevens Holly	4-6', B&B, Specimen 3.1.2.4	As Shown
<b>Deciduous Trees (LARGE)</b>						
27	EA	AOL	<i>Acer rubrum</i> 'October Glory'	October Glory Red Maple	2-21/2" Cal., 12-14', B&B, Specimen, 1.2.1	As Shown
9	EA	ARL	<i>Acer rubrum</i> 'Red Sunset'	Red Sunset Red Maple	2-21/2" Cal., 12-14', B&B, Specimen, 1.2.1	As Shown
24	EA	ASL	<i>Acer saccharum</i>	Sugar Maple	2-21/2" Cal., 12-14', B&B, Specimen, 1.2.1	As Shown
20	EA	QCL	<i>Quercus coccinea</i>	Scarlet Oak	2-21/2" Cal., 12-14', B&B, Specimen, 1.2.1	As Shown
18	EA	QTL	<i>Quercus texana</i> var. <i>nutalli</i>	Nuttall Oak	2-21/2" Cal., 12-14', B&B, Specimen, 1.2.1	As Shown
19	EA	TDL	<i>Taxodium Distichum</i>	Bald Cypress	2- 2 1/2" Cal., 6-8', B&B, Specimen	As Shown
<b>Shrubs</b>						
45	EA	AR	<i>Azalea x 'Roblem'</i>	Autumn Starlite Encore Azalea	18-24", #3 Cont., min. 3 canes, 4.2.3	As Shown
43	EA	EA	<i>Euonymus alatus</i>	Dwarf Burning Bush	24-36", #3 Cont., min. 3 canes, 2.2.3	As Shown
7	EA	IV	<i>Ilex verticillata</i> 'Red Sprite'	Winterberry	24-36", #3 Cont., min. 3 canes, 2.2.2	As Shown
53	EA	PL	<i>Prunus laurocerasus</i> 'Otto Luyken'	Otto Luyken Laurel	18-24", #3 Cont., min. 3 canes, 4.2.2	As Shown
3	EA	RP	<i>Rhododendron</i> 'PJM'	P.J.M. Rhododendron	18-24", #3 Cont., min. 3 canes, 4.2.2	As Shown
39	EA	TM	<i>Taxus x media</i> 'Densiformis'	Yew	18-24", #3 Cont., min. 3 canes, 3.2.3	As Shown
2	EA	TO	<i>Thuja occidentalis</i> 'Degroot's Spire'	American Arborvitae	5-6', LS, 3.2.6	As Shown
<b>Native Grass and Perennial Varieties</b>						
365	EA	EP	<i>Echinacea purpurea</i>	Purple Coneflower	4" Pot or Qt. Cont. - Deep	2" O.C.
827	EA	HB	<i>Hemerocallis</i> 'Buttered Popcorn'	Buttered Popcorn Daylily	Single Fan	2" O.C.
528	EA	IC	<i>Iris</i> 'Caesars's Brother'	Caesars's Brother Bearded Iris	Single Fan Rhizome	As Shown
130	EA	JE	<i>Juncus effusus</i>	Soft Rush	2 1/4" Sq.Pot, Tray of 32	4" O.C.
153	EA	LS	<i>Liriope spicata</i>	Liriope	#1 Cont.	24" O.C.
699	EA	ND	<i>Narcissus</i> 'Dutch Master'	Dutch Master Daffodil	DN II	24" O.C.
303	EA	PV	<i>Panicum virgatum</i> 'Cloud Nine'	Cloud Nine Switchgrass	2.25" Cont. 32/tray	5" O.C.
428	EA	RF	<i>Rudbeckia fulgida</i> 'Goldstrum'	Black Eyed Susan	4" Pot or Qt. Cont. - Deep, 12.3	2" O.C.
70	EA	SC	<i>Scirpus cyperinus</i>	Wool Grass	2 1/4" Sq.Pot, Tray of 32, 12.4	4" O.C.
132	EA	SB	<i>Spartina bakeri</i>	Cord Grass	2 1/4" Sq.Pot, Tray of 32, 12.4	4" O.C.

## Summary of Quantities

NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
LANDSCAPE DESIGN & DEVELOPMENT  
1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557  
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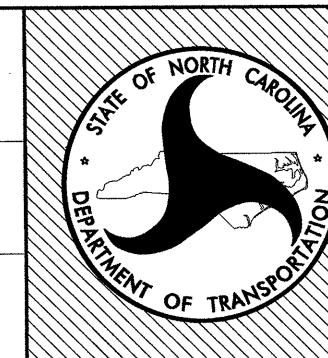
US 23 / 74 -SBL & NBL Rest Area Development  
Haywood County, North Carolina  
project #: K-5002 / CONTRACT C203202



sheet description:

Design & Development Plans  
Summary of Landscape Quantities

prel design date:  
checked by & date:  
final design date:



sheet no :  
**L3**  
total sheet no : 30

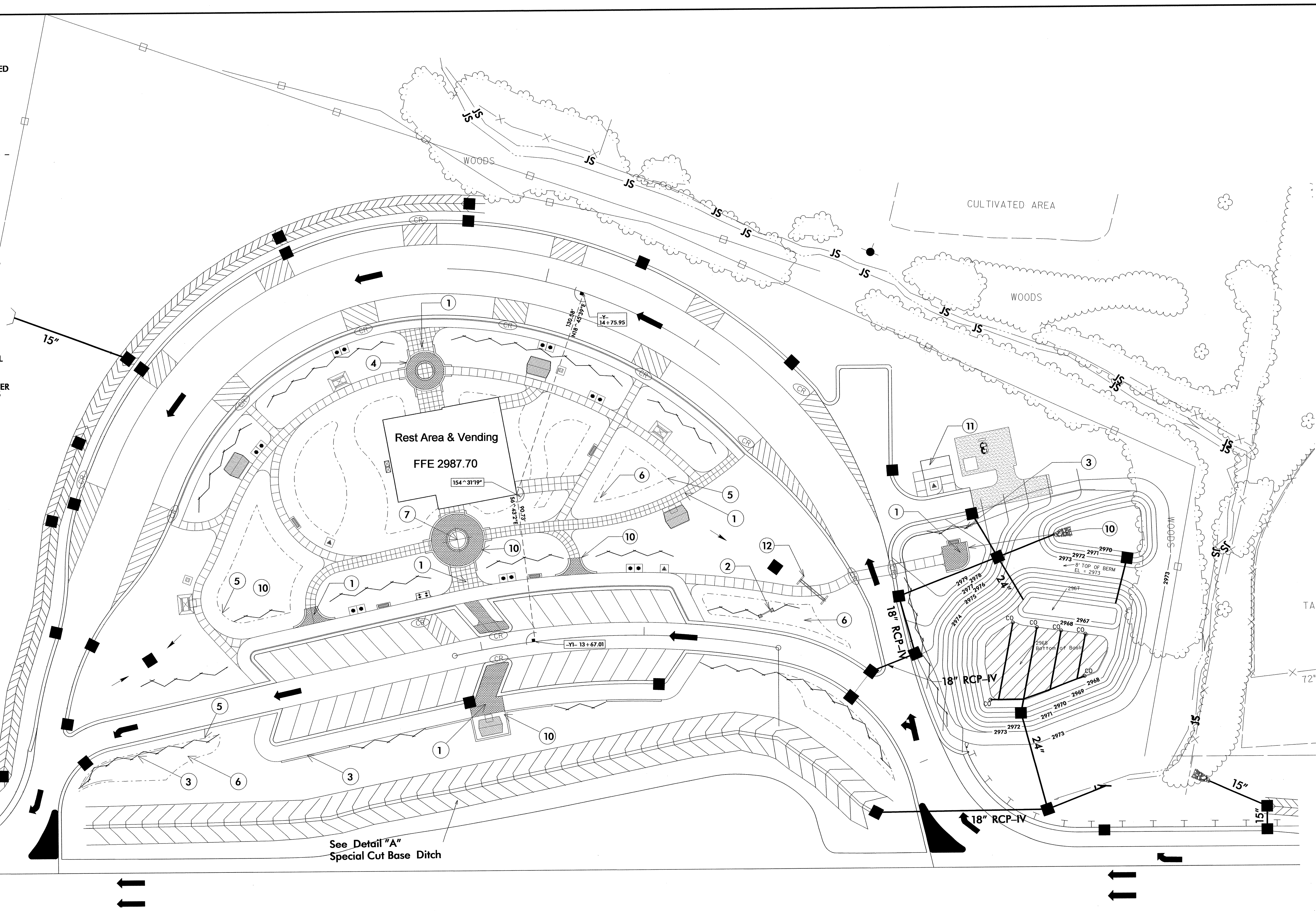
**CONSTRUCTION NOTES:**

- ① CONCRETE PAVER PLACEMENT, CONCRETE/TOOLED WALKWAYS - SEE SHEET L9,
- ② SIGN LOCATIONS AND DETAILS - SEE SHEETS LD14, LD15.
- ③ WORMSTYLE FENCING - SEE SHEET LD13
- ④ SEGMENTAL & RETAINING WALL REQUIREMENTS - SEE SHEETS LD1.
- ⑤ PAVEMENT & EDGING REQUIREMENTS - SEE SHEETS -LD9
- ⑥ LANDSCAPING REQUIREMENTS - SEE SHEETS LD4
- ⑦ WATER FEATURE REQUIREMENTS - SEE SHEETS LD10, LD11.
- ⑧ STORAGE BUILDING AND DUMPSTER AREA REQUIREMENTS - SEE ARCHITECTURAL PLANS
- ⑨ FLAG POLE REQUIREMENT - SEE SHEET LD8
- ⑩ STACKED STONE VENEER FACED SEATWALL REQUIREMENT (18" ABOVE FIN GRADE - SEE SHEET LD2)
- ⑪ 8 X 12 STORAGE BUILDING-SEE ARCHITECTURAL PLANS
- ⑫ 18" RCP ENDWALL WITH STACKED STONE VENEER TO MATCH BUILDING-SEE NCDOT STANDARDS 838.01-LD2

**LEGEND NOTES:**

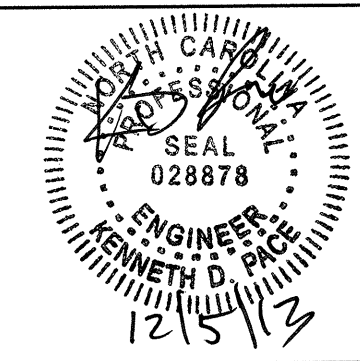
**CONSTRUCTION NOTE IDENTIFICATION**

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- PICNIC SHELTER & TABLE - SEE SHEET LD4
- BENCH SEAT - SEE SHEET LD12
- PARK STOVE - SEE SHEET LD6
- WASTE CONTAINER ON PAD - LD6
- DEPRESSED CURB
- SITE SIGNAGE LOCATION - SEE SHEETS LD2, LD13
- WORMSTYLE FENCE - SEE SHEET LD2
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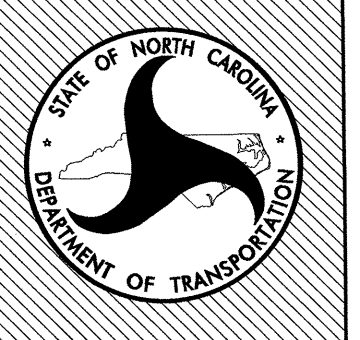
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sheet description:  
 Design & Development Plans  
 SBL SITE PLAN

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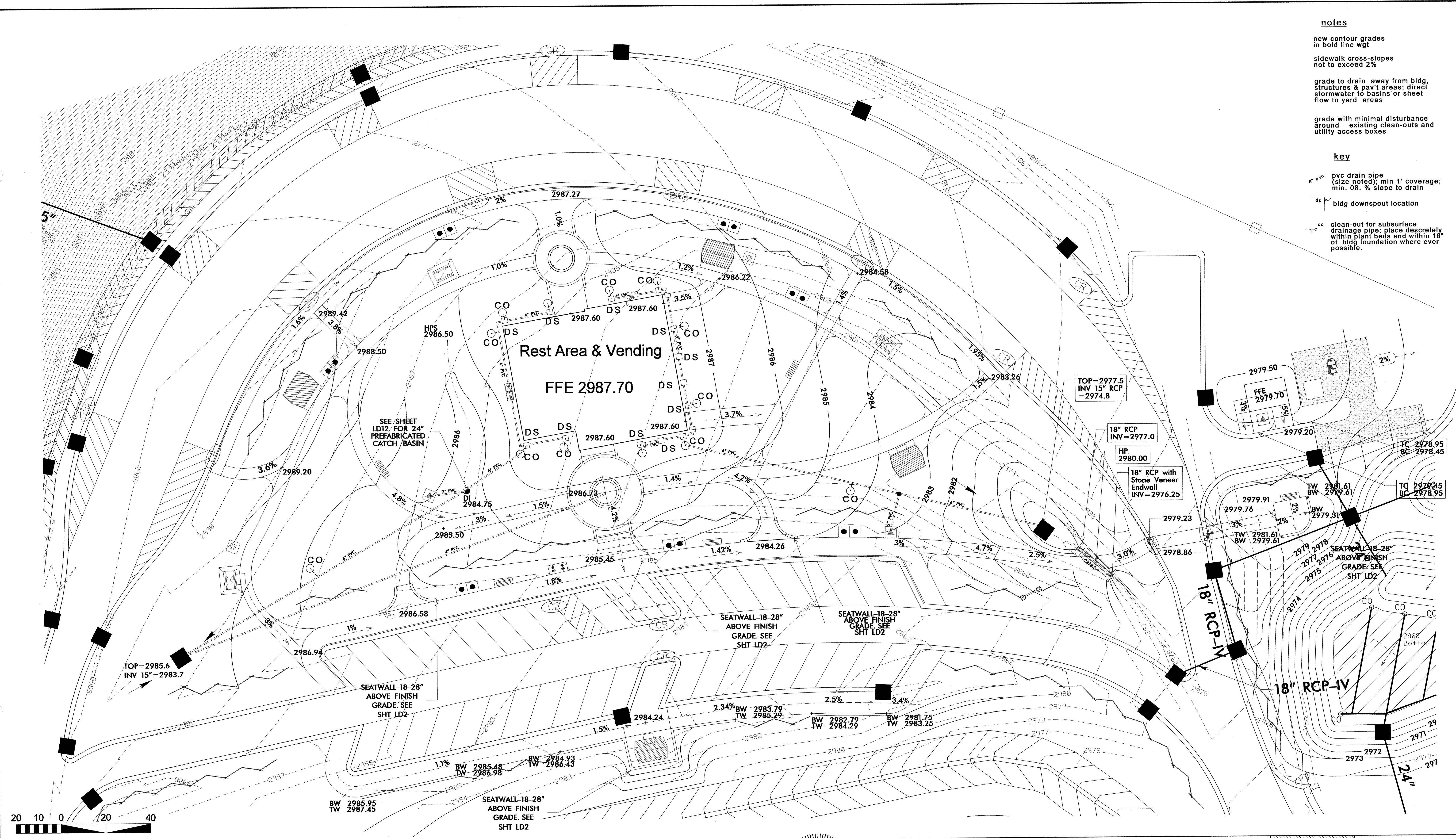


**notes**

- new contour grades in bold line wgt
- sidewalk cross-slopes not to exceed 2%
- grade to drain away from bldg, structures & pav't areas; direct stormwater to basins or sheet flow to yard areas
- grade with minimal disturbance around existing clean-outs and utility access boxes

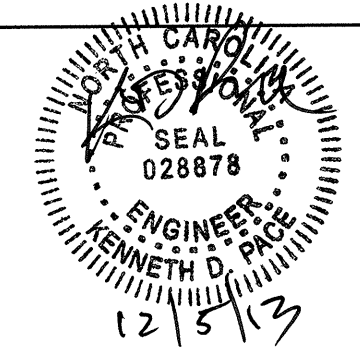
**key**

- 6" pvc pvc drain pipe (size noted); min 1' coverage; min .08% slope to drain
- ds bldg downspout location
- co clean-out for subsurface drainage pipe; place discreetly within plant beds and within 16" of bldg foundation where ever possible.



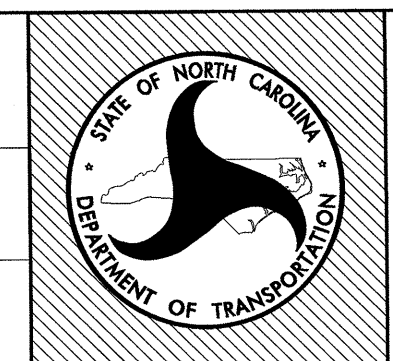
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Design & Development Plans  
 SBL GRADING & DRAINAGE PLAN

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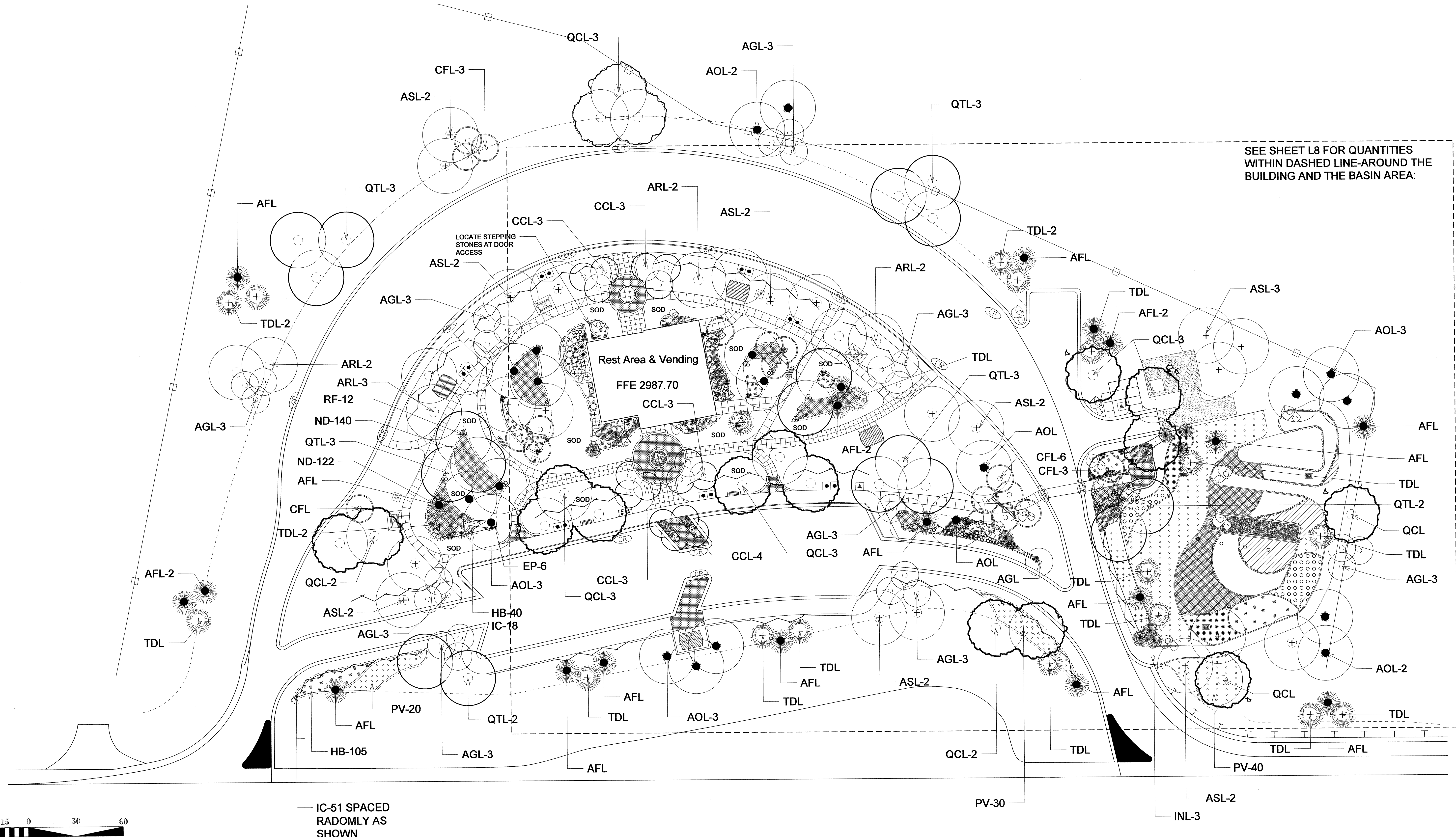


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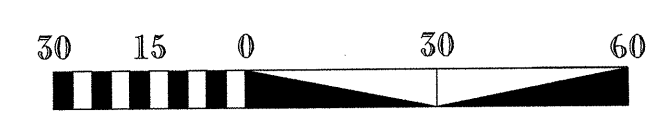








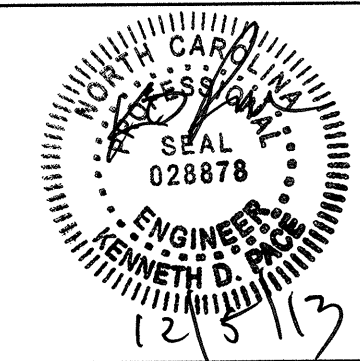
SEE SHEET L8 FOR QUANTITIES WITHIN DASHED LINE-AROUND THE BUILDING AND THE BASIN AREA:



IC-51 SPACED RANDOMLY AS SHOWN

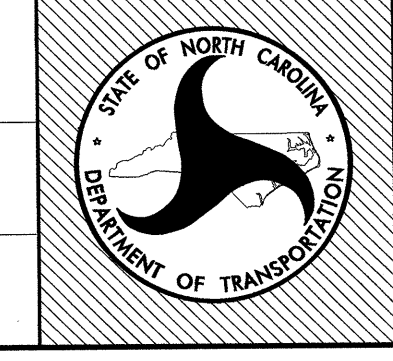
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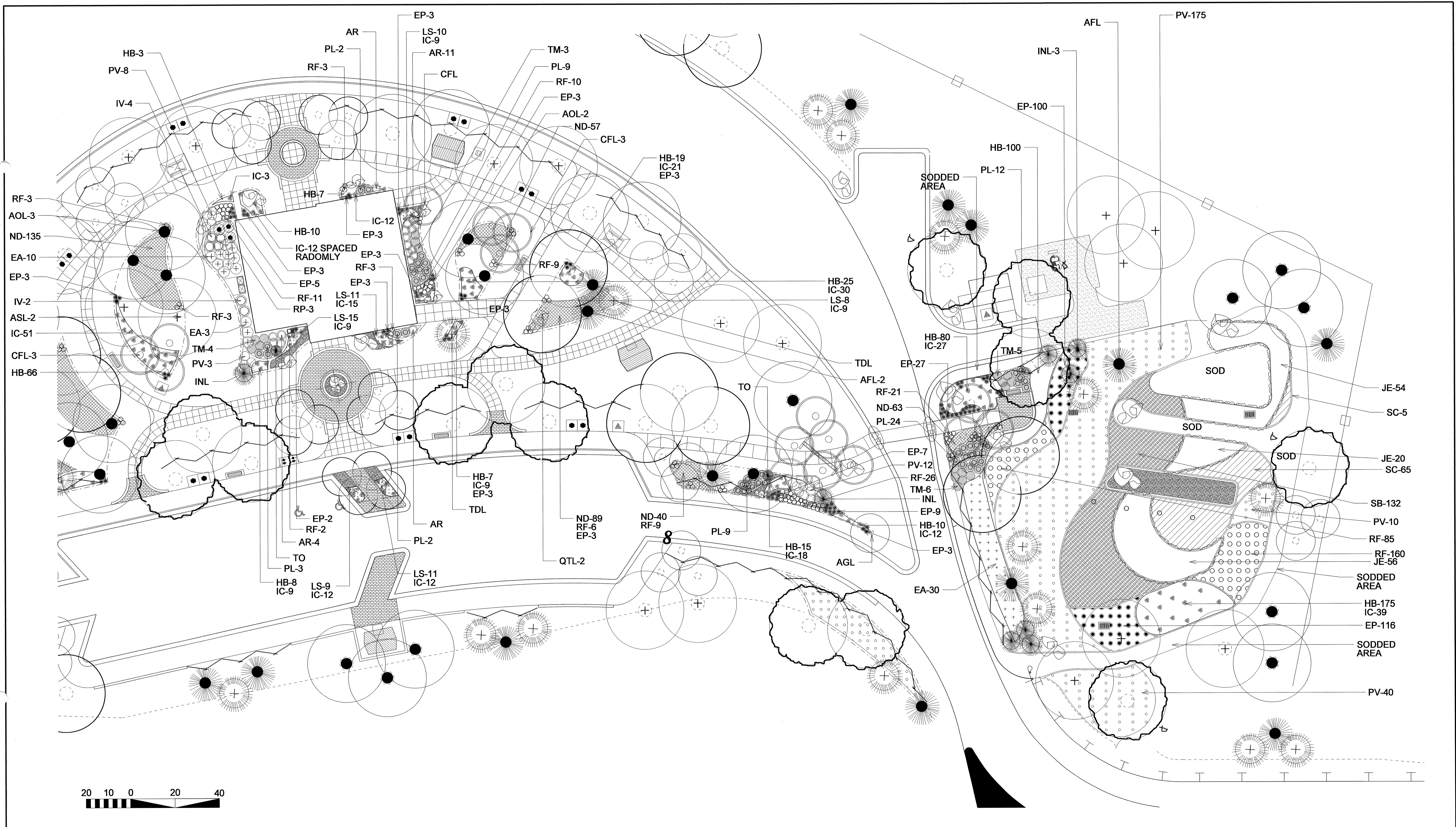
Design & Development Plans  
 SBL LANDSCAPE PLAN

prel design date: \_\_\_\_\_  
 checked by & date: \_\_\_\_\_  
 final design date: \_\_\_\_\_



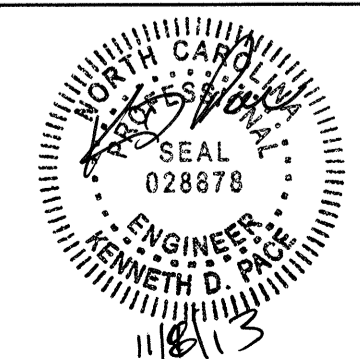
sheet no: **L7**  
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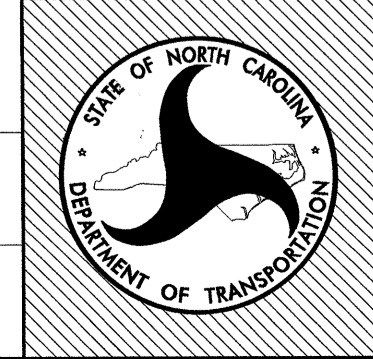
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US 23 / 74 -SBL & NBL Rest Area Development  
 Haywood County, North Carolina  
 project #: K-5002 / CONTRACT C203202



sheet description:  
 Design & Development Plans  
 SBL Landscape Plan

prel design date:  
 checked by & date:  
 final design date:

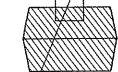
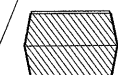

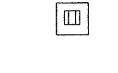







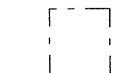




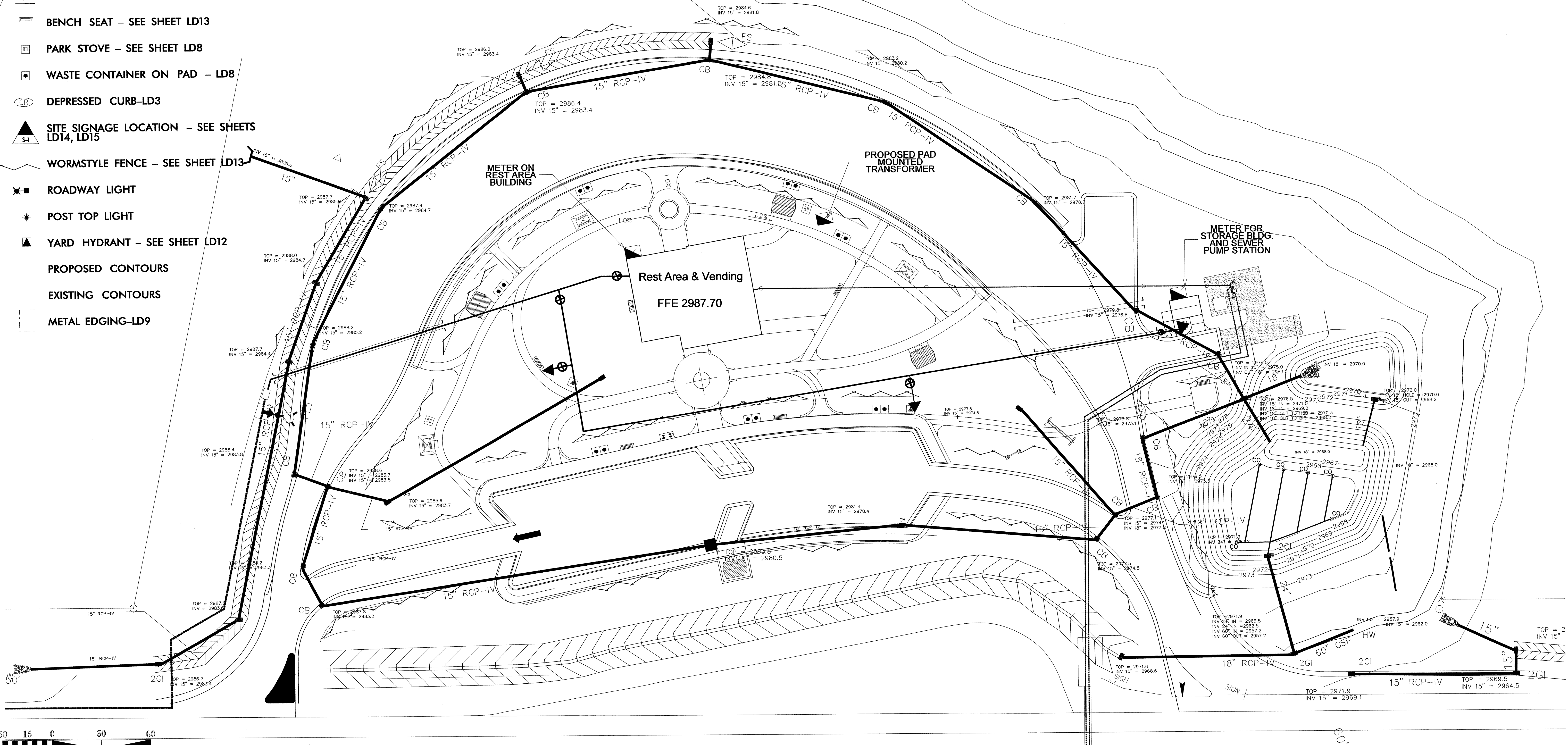
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 total sheet no: 30



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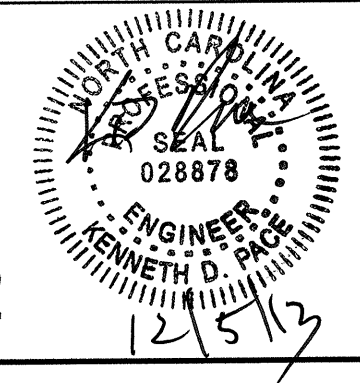
CONSTRUCTION NOTE IDENTIFICATION

-  PICNIC SHELTER & TABLE (HANDICAP) SEE SHEET LD5
-  PICNIC SHELTER & TABLE - SEE SHEET LD5
-  BENCH SEAT - SEE SHEET LD13
-  PARK STOVE - SEE SHEET LD8
-  WASTE CONTAINER ON PAD - LD8
-  DEPRESSED CURB-LD3
-  SITE SIGNAGE LOCATION - SEE SHEETS LD14, LD15
-  WORMSTYLE FENCE - SEE SHEET LD13
-  ROADWAY LIGHT
-  POST TOP LIGHT
-  YARD HYDRANT - SEE SHEET LD12
-  PROPOSED CONTOURS
-  EXISTING CONTOURS
-  METAL EDGING-LD9



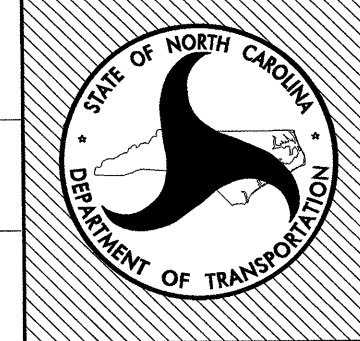
NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
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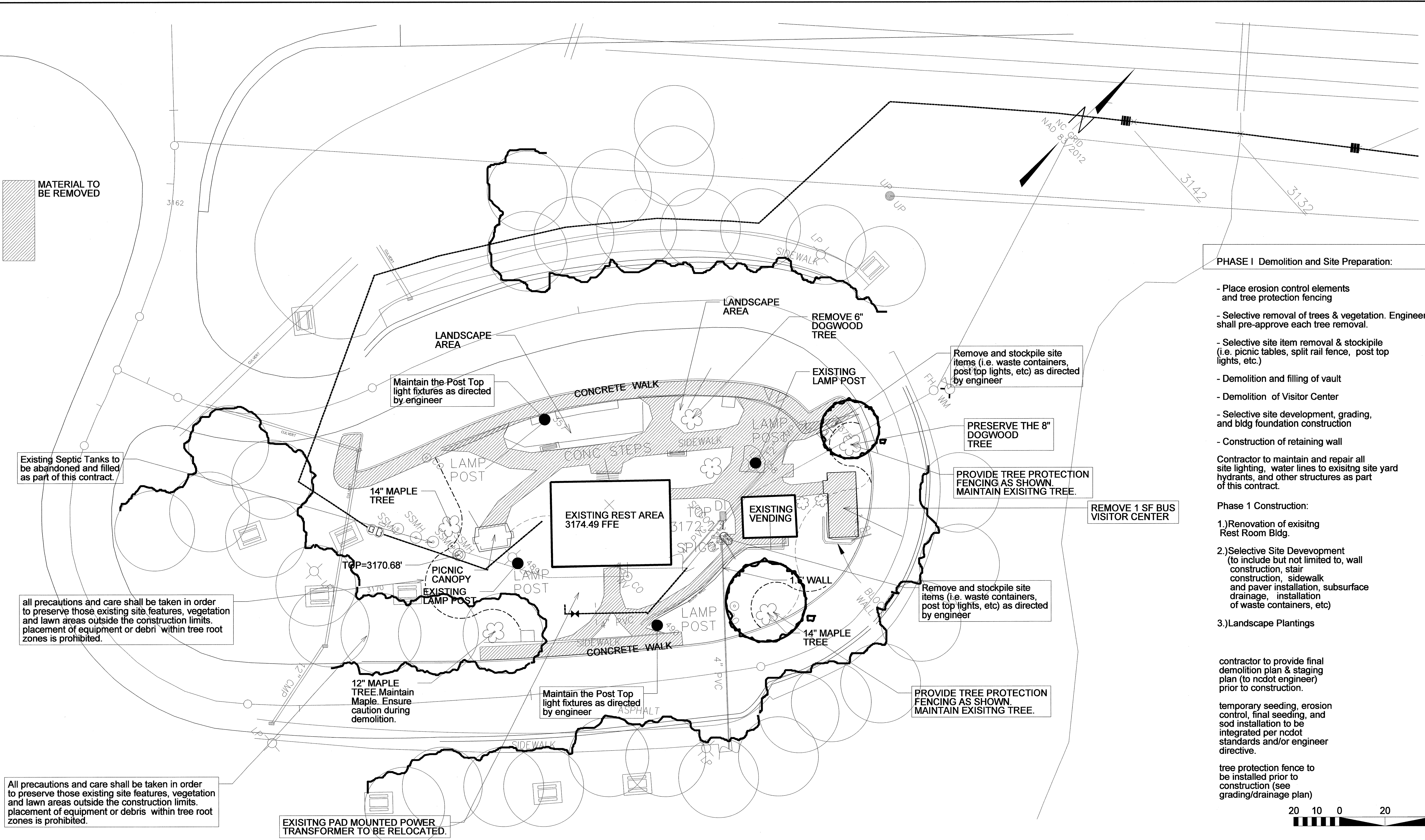
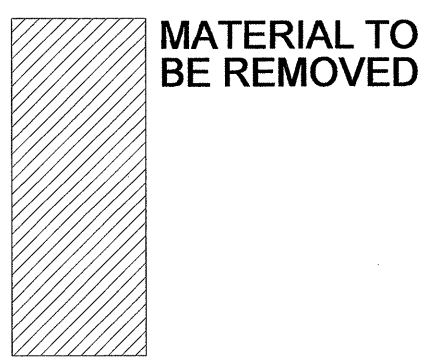
sheet description:  
 Design & Development Plans  
 SBL Utility PLAN

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 final design date:



sheet no :  
**L9**  
 total sheet no : 30





**PHASE I Demolition and Site Preparation:**

- Place erosion control elements and tree protection fencing
  - Selective removal of trees & vegetation. Engineer shall pre-approve each tree removal.
  - Selective site item removal & stockpile (i.e. picnic tables, split rail fence, post top lights, etc.)
  - Demolition and filling of vault
  - Demolition of Visitor Center
  - Selective site development, grading, and bldg foundation construction
  - Construction of retaining wall
- Contractor to maintain and repair all site lighting, water lines to existing site yard hydrants, and other structures as part of this contract.

- Phase 1 Construction:**
- 1.) Renovation of existing Rest Room Bldg.
  - 2.) Selective Site Development (to include but not limited to, wall construction, stair construction, sidewalk and paver installation, subsurface drainage, installation of waste containers, etc)
  - 3.) Landscape Plantings

contractor to provide final demolition plan & staging plan (to ncdot engineer) prior to construction.

temporary seeding, erosion control, final seeding, and sod installation to be integrated per ncdot standards and/or engineer directive.

tree protection fence to be installed prior to construction (see grading/drainage plan)



Existing Septic Tanks to be abandoned and filled as part of this contract.

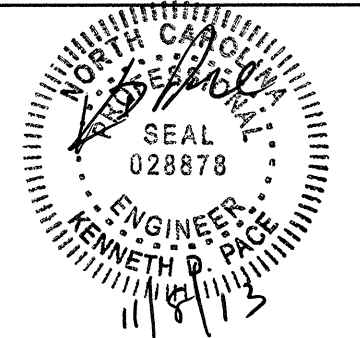
all precautions and care shall be taken in order to preserve those existing site features, vegetation and lawn areas outside the construction limits. placement of equipment or debris within tree root zones is prohibited.

All precautions and care shall be taken in order to preserve those existing site features, vegetation and lawn areas outside the construction limits. placement of equipment or debris within tree root zones is prohibited.

EXISTING PAD MOUNTED POWER TRANSFORMER TO BE RELOCATED.

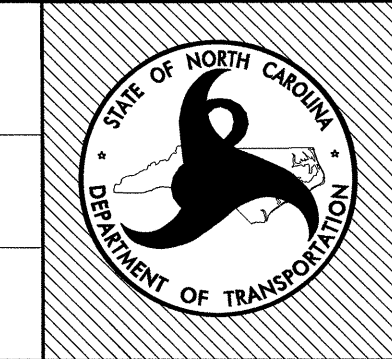
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 project #: K-5002 / CONTRACT C203202



sheet description:  
 Design & Development Plans  
 NBL DEMOLITION PLAN

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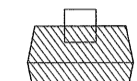
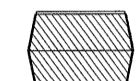




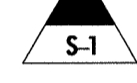





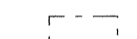



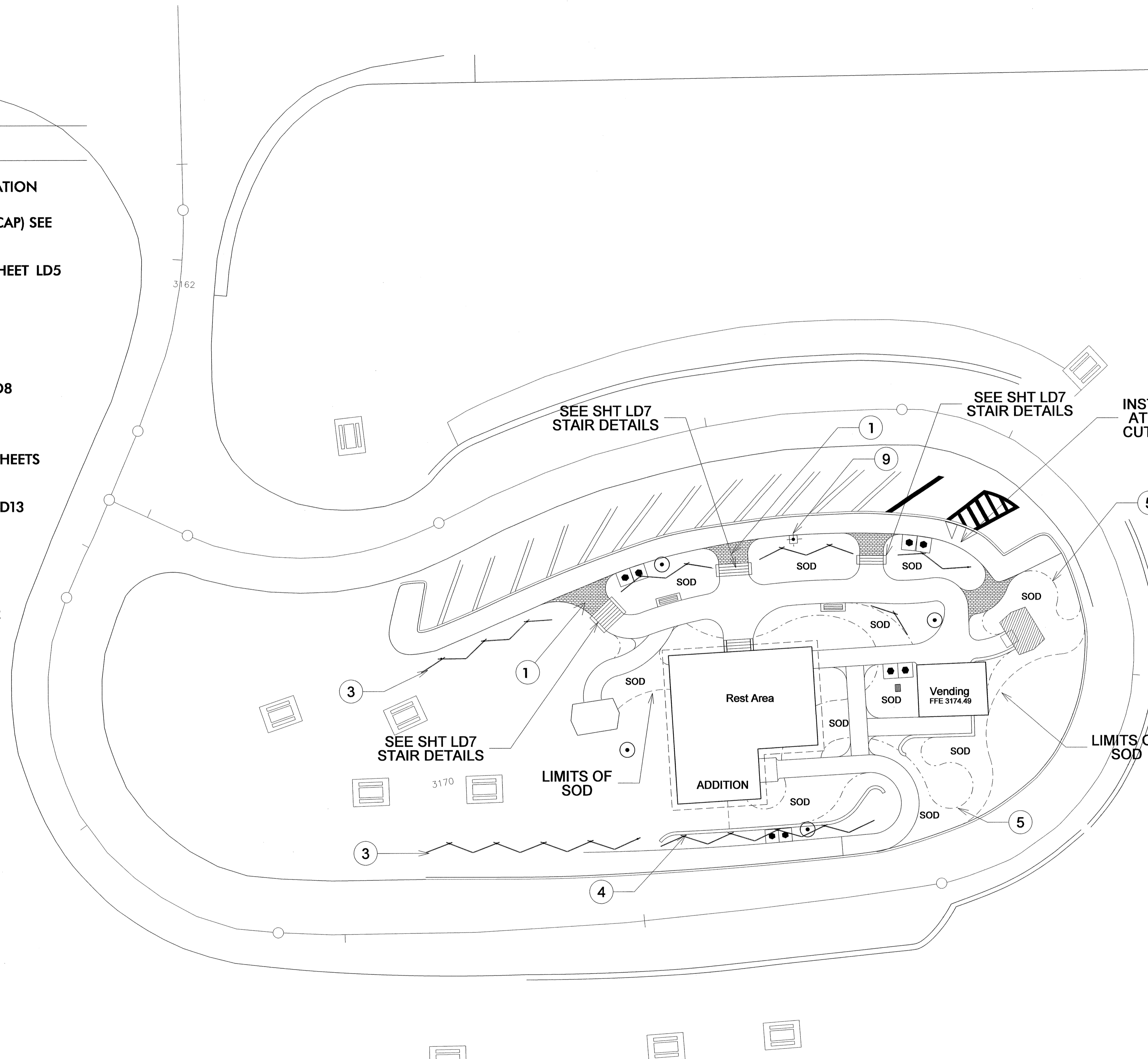
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**LEGEND NOTES:**

**CONSTRUCTION NOTE IDENTIFICATION**

-  PICNIC SHELTER & TABLE (HANDICAP) SEE SHEET LD5
-  PICNIC SHELTER & TABLE - SEE SHEET LD5
-  BENCH SEAT - SEE SHEET LD13
-  PARK STOVE - SEE SHEET LD8
-  WASTE CONTAINER ON PAD - LD8
-  DEPRESSED CURB-LD3
-  SITE SIGNAGE LOCATION - SEE SHEETS LD14, LD15
-  WORMSTYLE FENCE - SEE SHEET LD13
-  ROADWAY LIGHT
-  POST TOP LIGHT
-  YARD HYDRANT - SEE SHEET LD12
-  PROPOSED CONTOURS
-  EXISTING CONTOURS
-  METAL EDGING-LD9



INSTALL NEW CURB RAMP AT THIS LOCATION. SAW CUT TO GET SMOOTH SET

**CONSTRUCTION NOTES:**

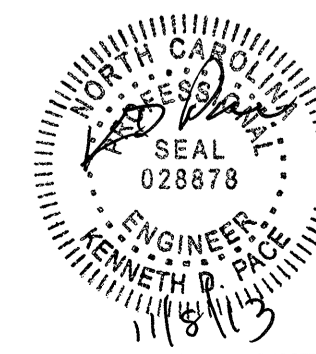
- 1 CONCRETE PAVER PLACEMENT, CONCRETE/TOOLED WALKWAYS - SEE SHEET L9,
- 2 SIGN LOCATIONS AND DETAILS - SEE SHEETS LD14, LD15.
- 3 WORMSTYLE FENCING - SEE SHEET LD13
- 4 SEGMENTAL & RETAINING WALL REQUIREMENTS - SEE SHEETS LD1.
- 5 PAVEMENT & EDGING REQUIREMENTS - SEE SHEETS -LD9
- 6 LANDSCAPING REQUIREMENTS - SEE SHEETS LD4
- 7 WATER FEATURE REQUIREMENTS - SEE SHEETS LD10, LD11.
- 8 STORAGE BUILDING AND DUMPSTER AREA REQUIREMENTS - SEE ARCHITECTURAL PLANS
- 9 FLAG POLE REQUIREMENT. ENSURE TO CONNECT AT LIGHT FIXTURE SOURCE FOR POWER - SEE SHEET LD8
- 10 STACKED STONE VENEER FACED SEATWALL REQUIREMENT (18" ABOVE FIN GRADE - SEE SHEET LD2)
- 11 8 X 12 STORAGE BUILDING-SEE ARCHITECTURAL PLANS
- 12 18" RCP ENDWALL WITH STACKED STONE VENEER TO MATCH BUILDING-SEE NCDOT STANDARDS 838.01-LD2



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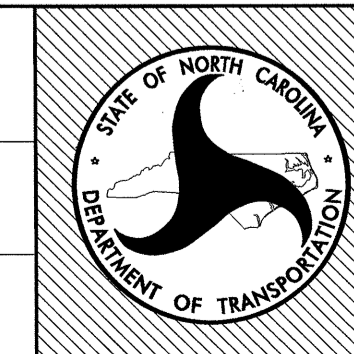
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Design & Development Plans  
 NBL SITE PLAN

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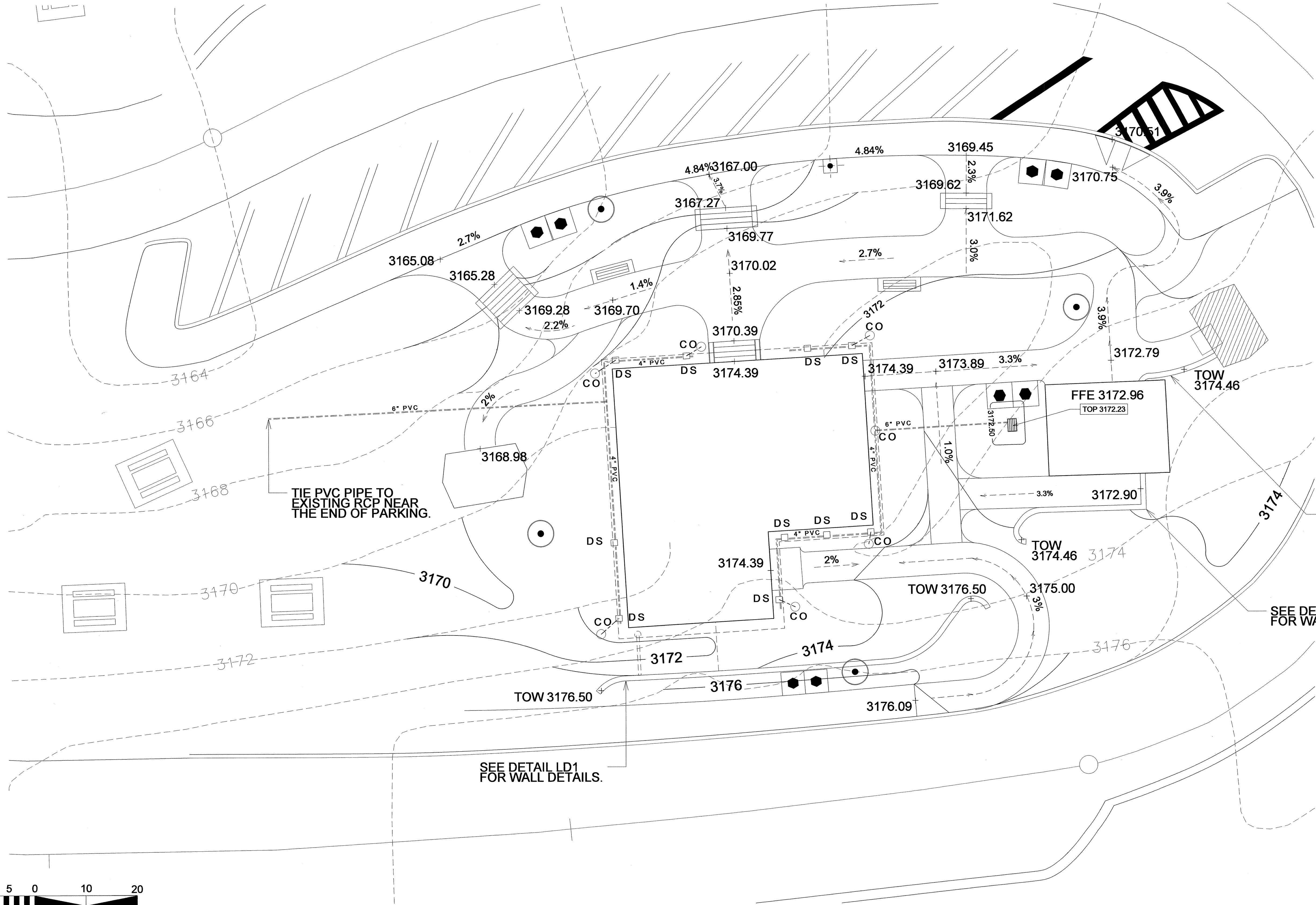
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sheet no :

**L11**

total sheet no : 30



**notes**

new contour grades  
in bold line wgt

sidewalk cross-slopes  
not to exceed 2%

grade to drain away from bldg,  
structures & pav't areas; direct  
stormwater to basins or sheet  
flow to yard areas

grade with minimal disturbance  
around existing clean-outs and  
utility access boxes

**key**

6" pvc pvc drain pipe  
(size noted); min 1' coverage;  
min. 08. % slope to drain

ds bldg downspout location

co clean-out for subsurface  
drainage pipe; place descretely  
within plant beds and within 16"  
of bldg foundation where ever  
possible.

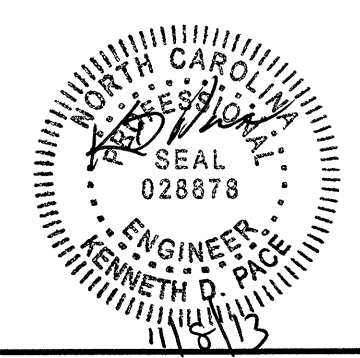
SEE DETAIL LD1  
FOR WALL DETAILS.

SEE DETAIL LD1  
FOR WALL DETAILS.

SEE DETAIL LD1  
FOR WALL DETAILS.

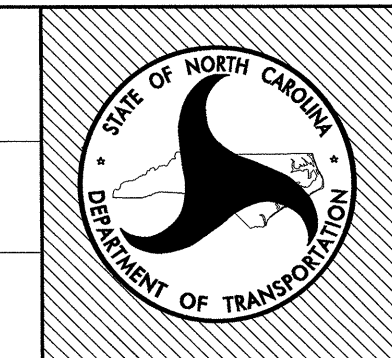
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Design & Development Plans  
NBL GRADING & DRAINAGE  
PLAN

prel design date:  
checked by & date:  
final design date:


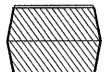





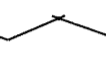
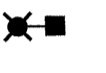





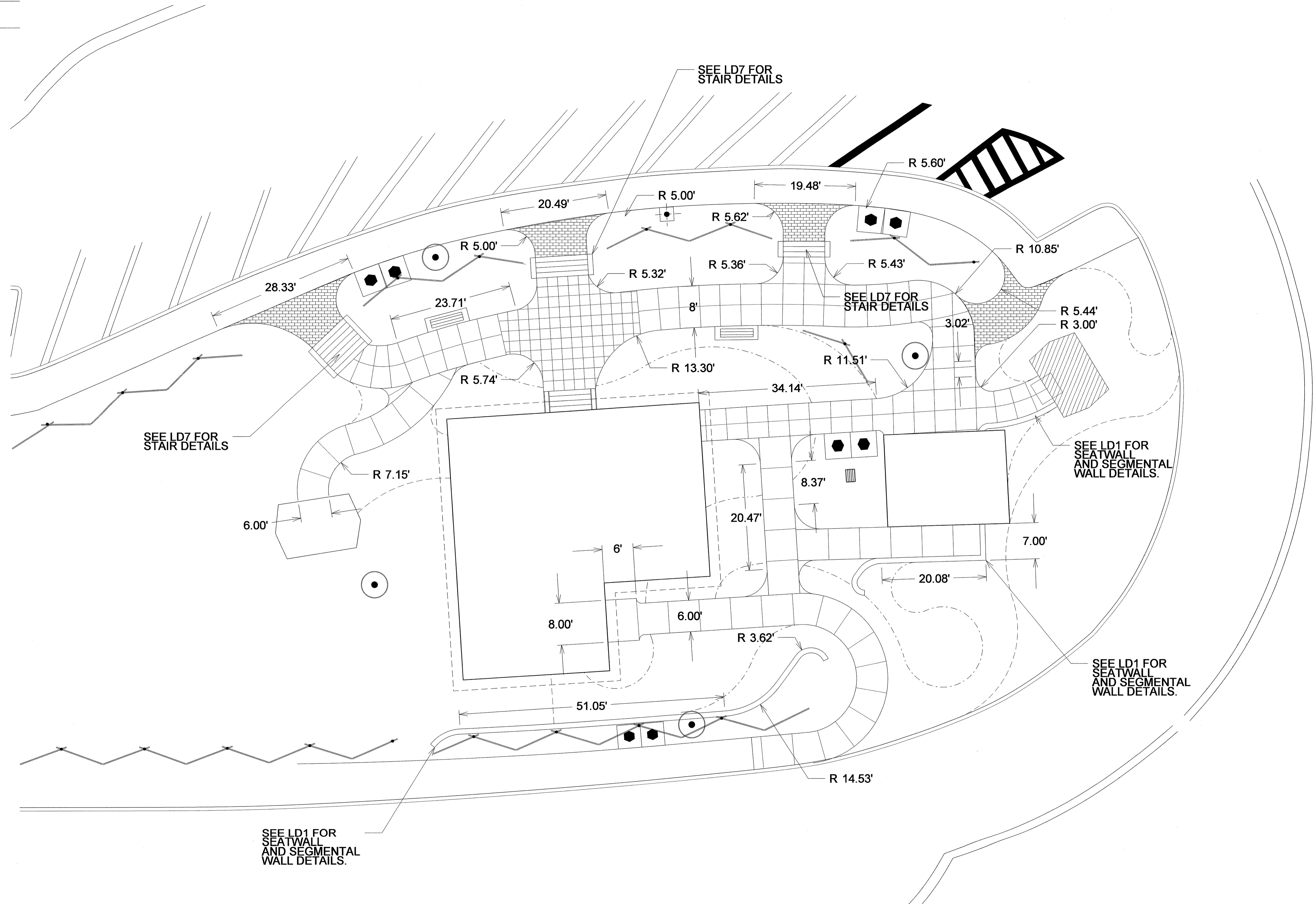
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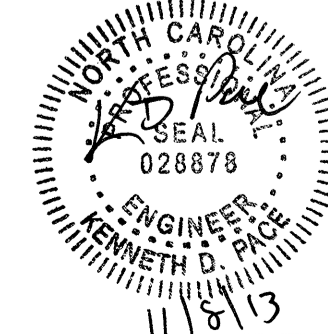
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-  PICNIC SHELTER & TABLE - SEE SHEET LD5
-  BENCH SEAT - SEE SHEET LD13
-  PARK STOVE - SEE SHEET LD8
-  WASTE CONTAINER ON PAD - LD8
-  DEPRESSED CURB-LD3
-  SITE SIGNAGE LOCATION - SEE SHEETS LD14, LD15
-  WORMSTYLE FENCE - SEE SHEET LD2
-  ROADWAY LIGHT
-  POST TOP LIGHT
-  YARD HYDRANT - SEE SHEET LD12
- PROPOSED CONTOURS
- EXISTING CONTOURS
-  METAL EDGING-LD9



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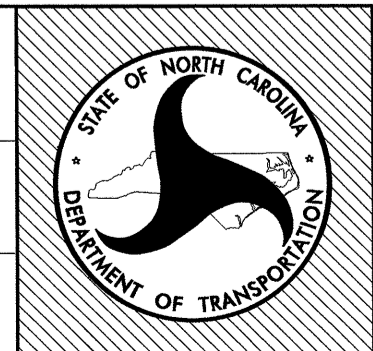
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 NBL HARDSCAPE & LAYOUT

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checked by & date:

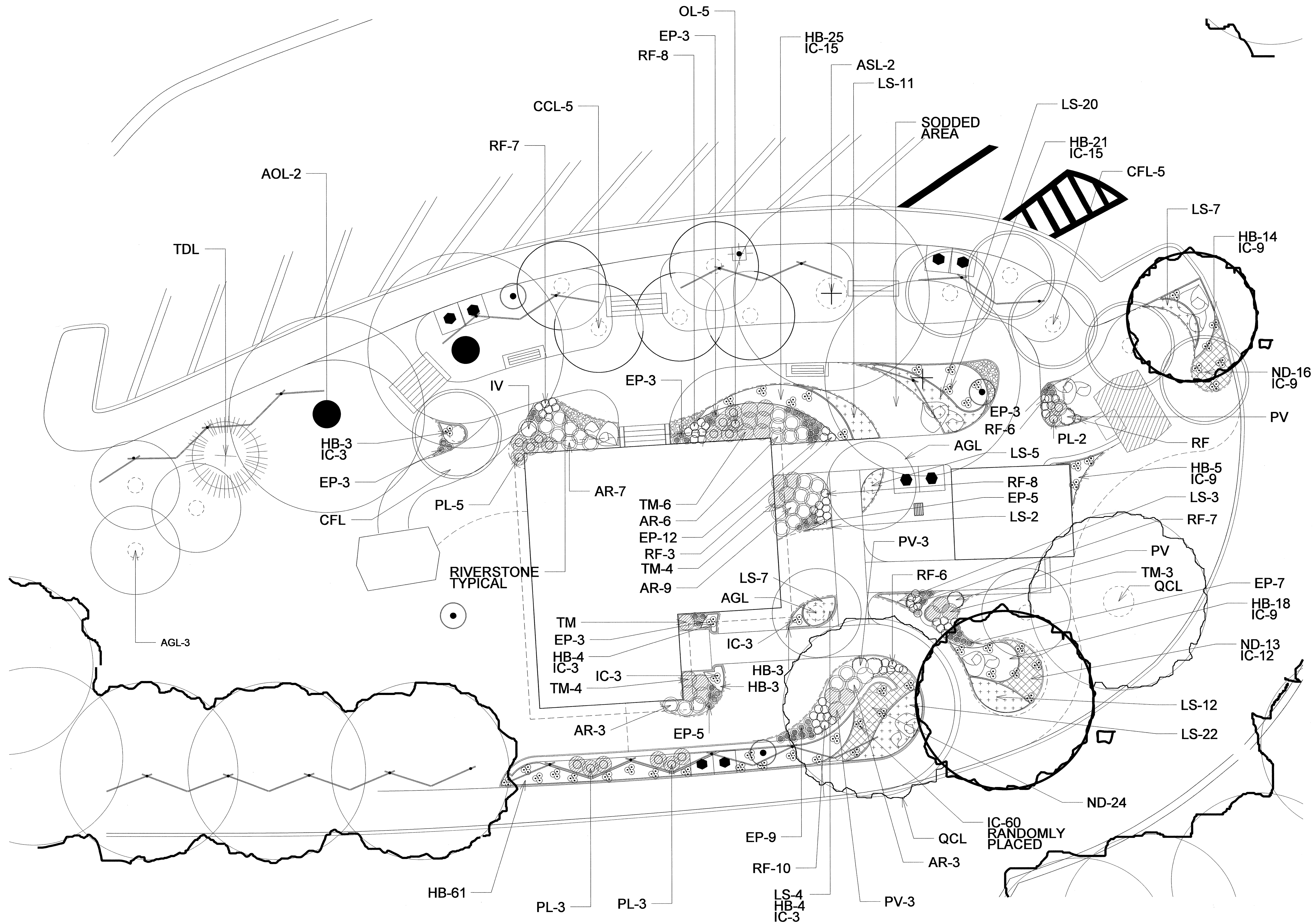
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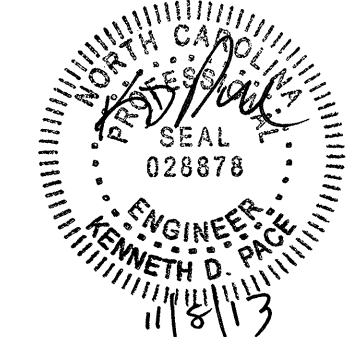
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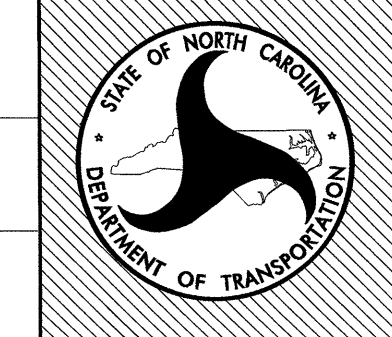
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 Haywood County, North Carolina  
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sheet description:  
 Design & Development Plans  
 NBL LANDSCAPE PLAN

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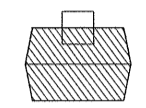
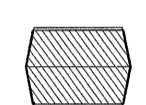

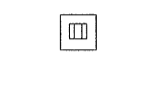
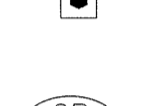

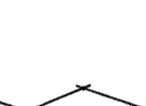




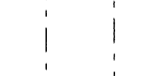


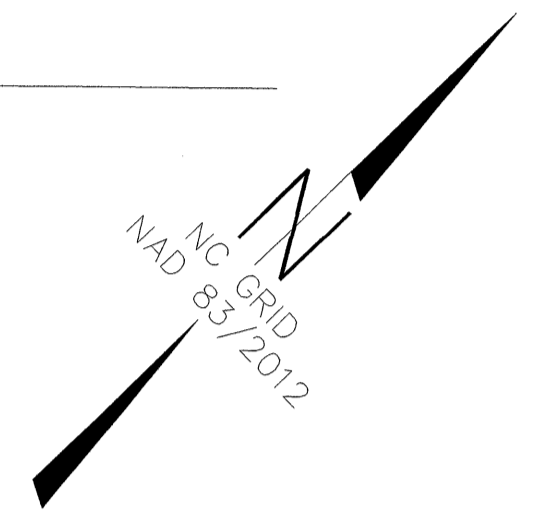
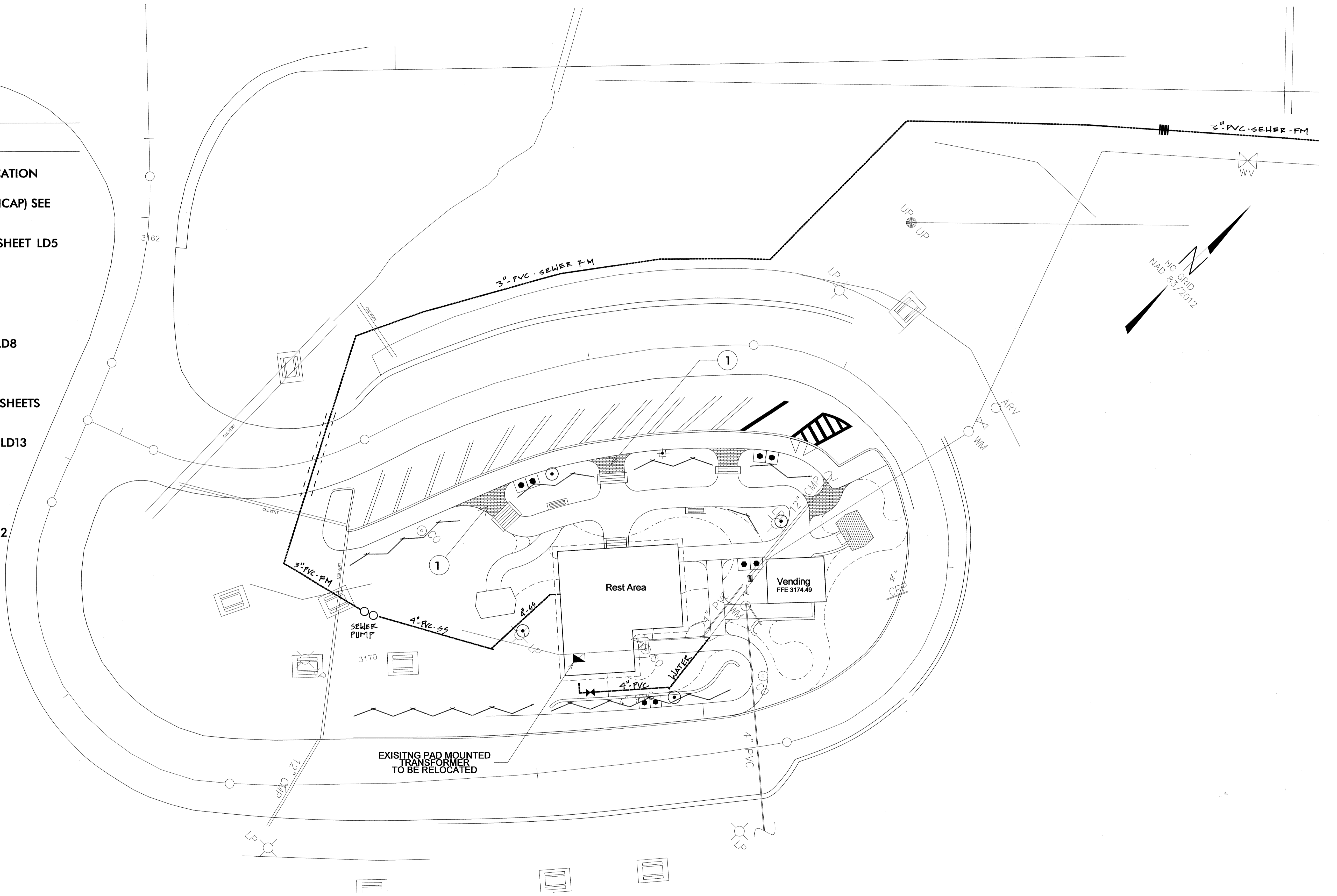
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LEGEND NOTES:

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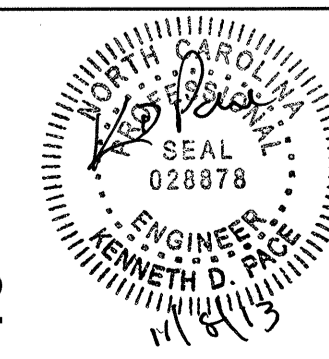
-  PICNIC SHELTER & TABLE (HANDICAP) SEE SHEET LD5
-  PICNIC SHELTER & TABLE - SEE SHEET LD5
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-  PARK STOVE - SEE SHEET LD8
-  WASTE CONTAINER ON PAD - LD8
-  DEPRESSED CURB-LD3
-  SITE SIGNAGE LOCATION - SEE SHEETS LD14, LD15
-  WORMSTYLE FENCE - SEE SHEET LD13
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-  YARD HYDRANT - SEE SHEET LD12
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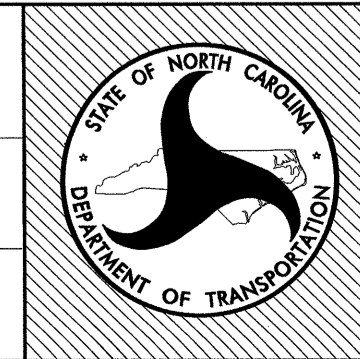
project #: K-5002 / CONTRACT C203202



sheet description:

Design & Development Plans  
 NBL SITE UTILITY PLAN

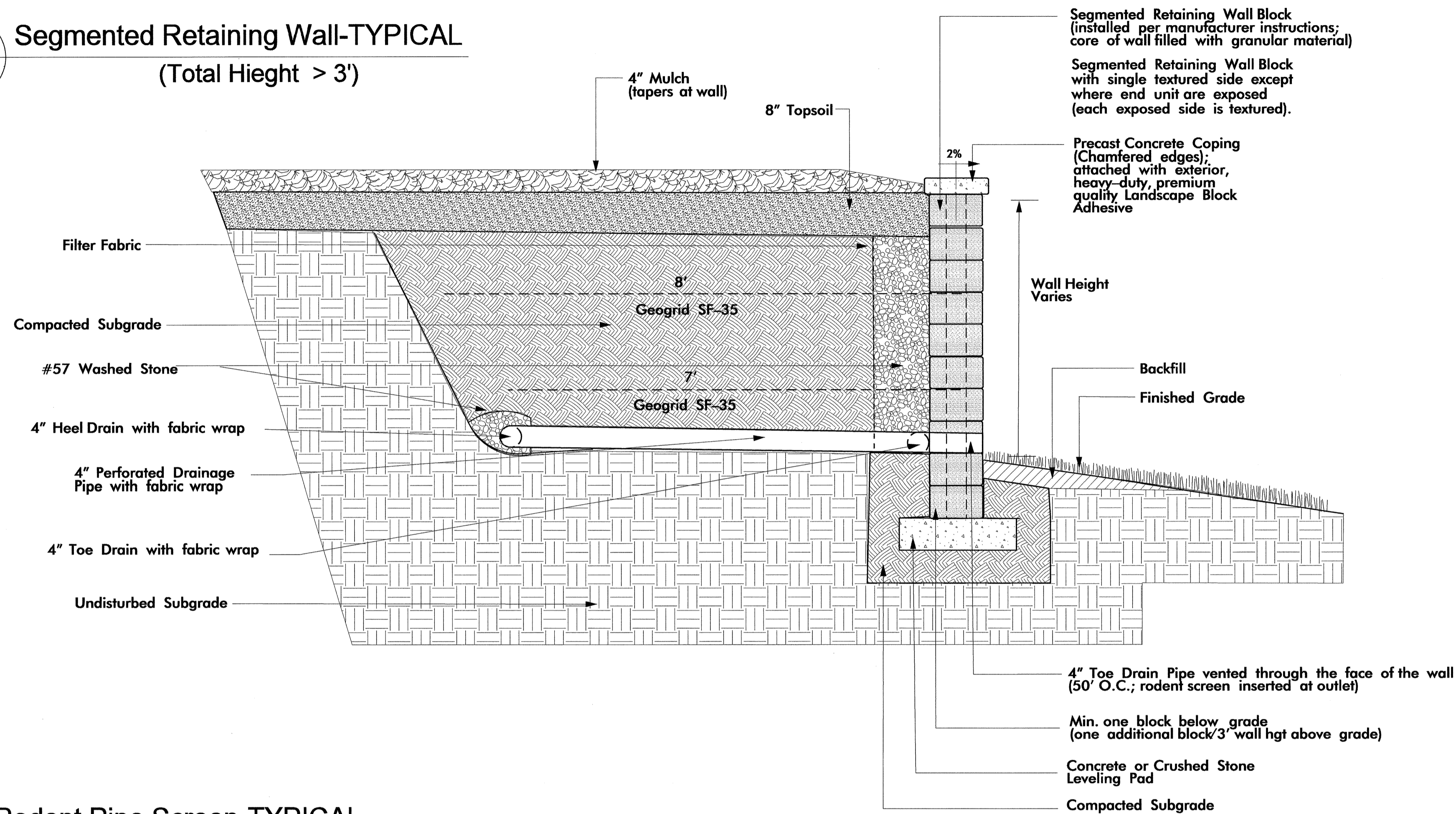
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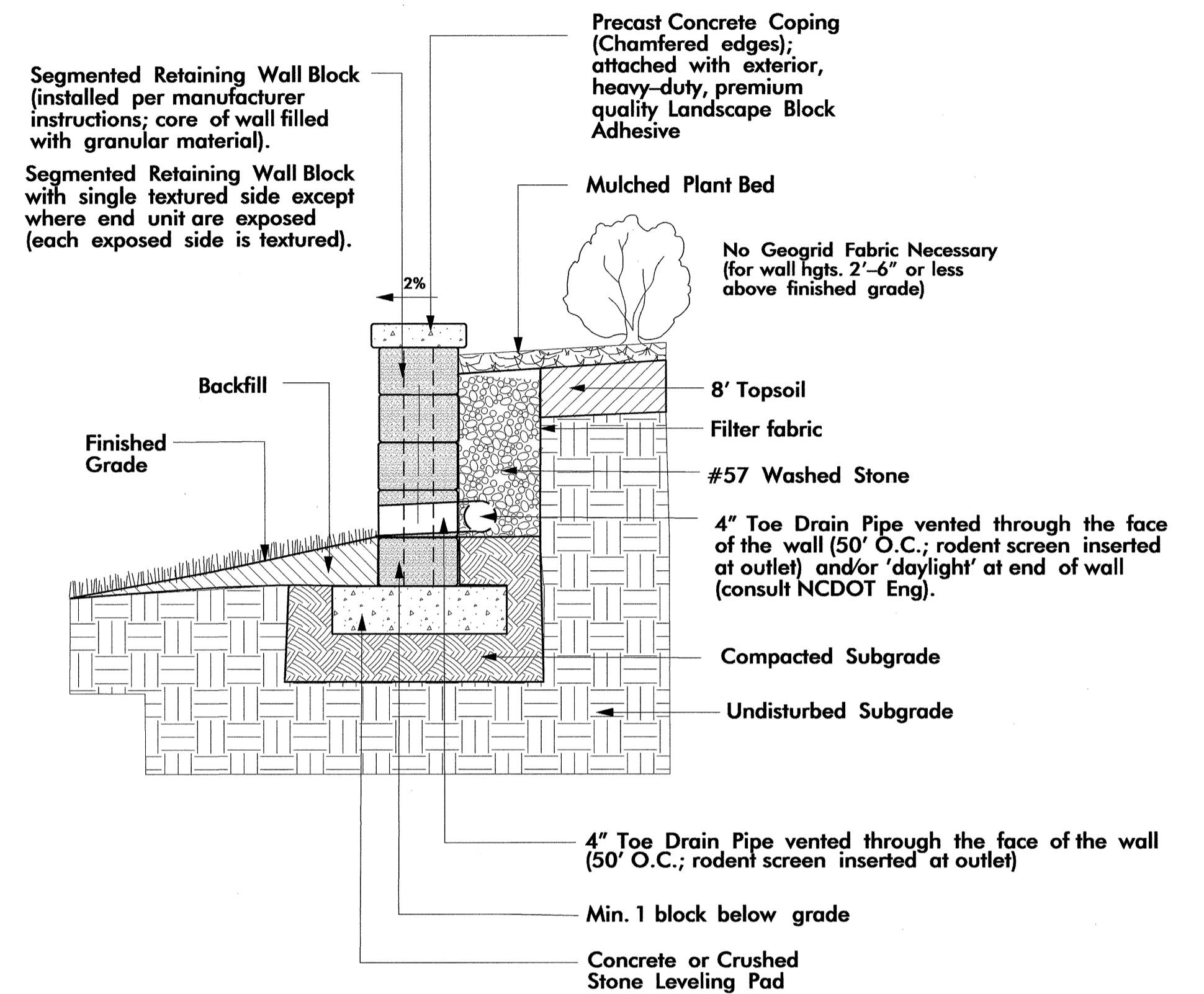
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**L15**  
 total sheet no : 30

CONTRACTOR SHALL PROVIDE SEALED ENGINEERED DRAWINGS FOR ALL WALLS.

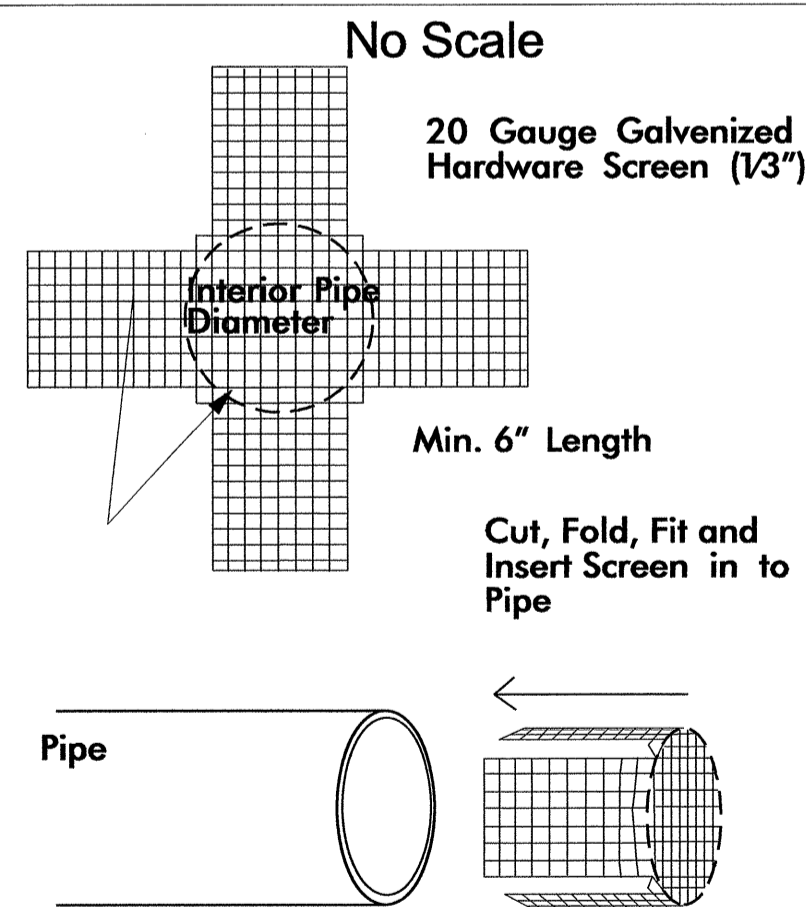
**LD1 Segmented Retaining Wall-TYPICAL**  
A (Total Height > 3')



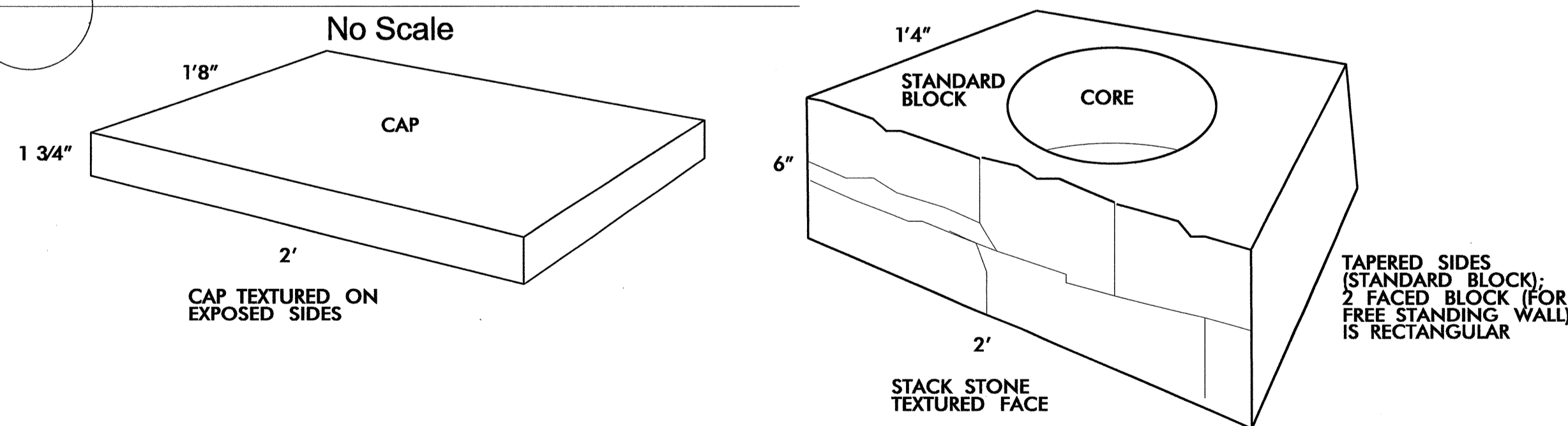
**LD1 Segmented Retaining Wall-TYPICAL**  
B (Total Height < 3')



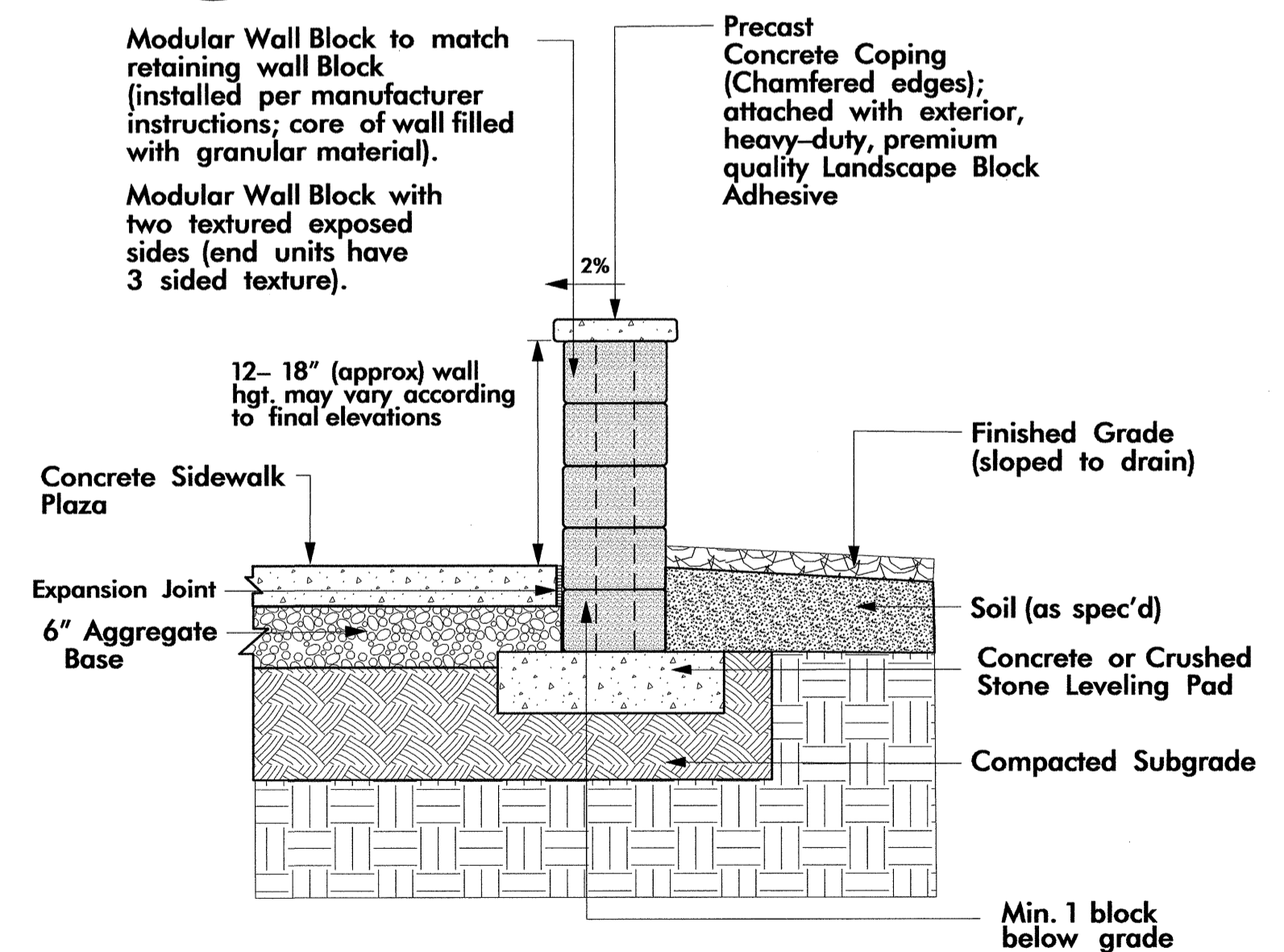
**LD1 Rodent Pipe Screen-TYPICAL**



**LD1 Segmented Retaining Wall Block-TYPICAL**

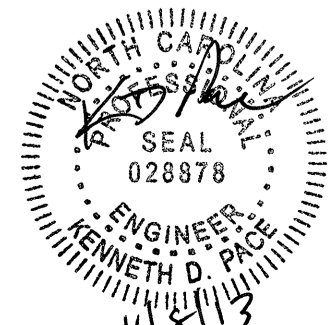


**LD1 Freestanding Seat Wall-TYPICAL**  
C No Scale



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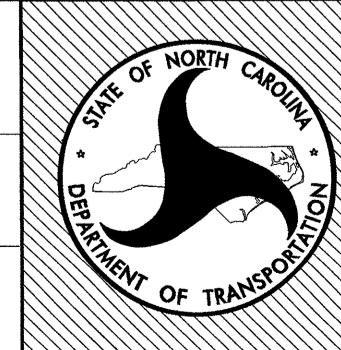


Design & Development Plans  
Segmental & Retaining Wall

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final design date:

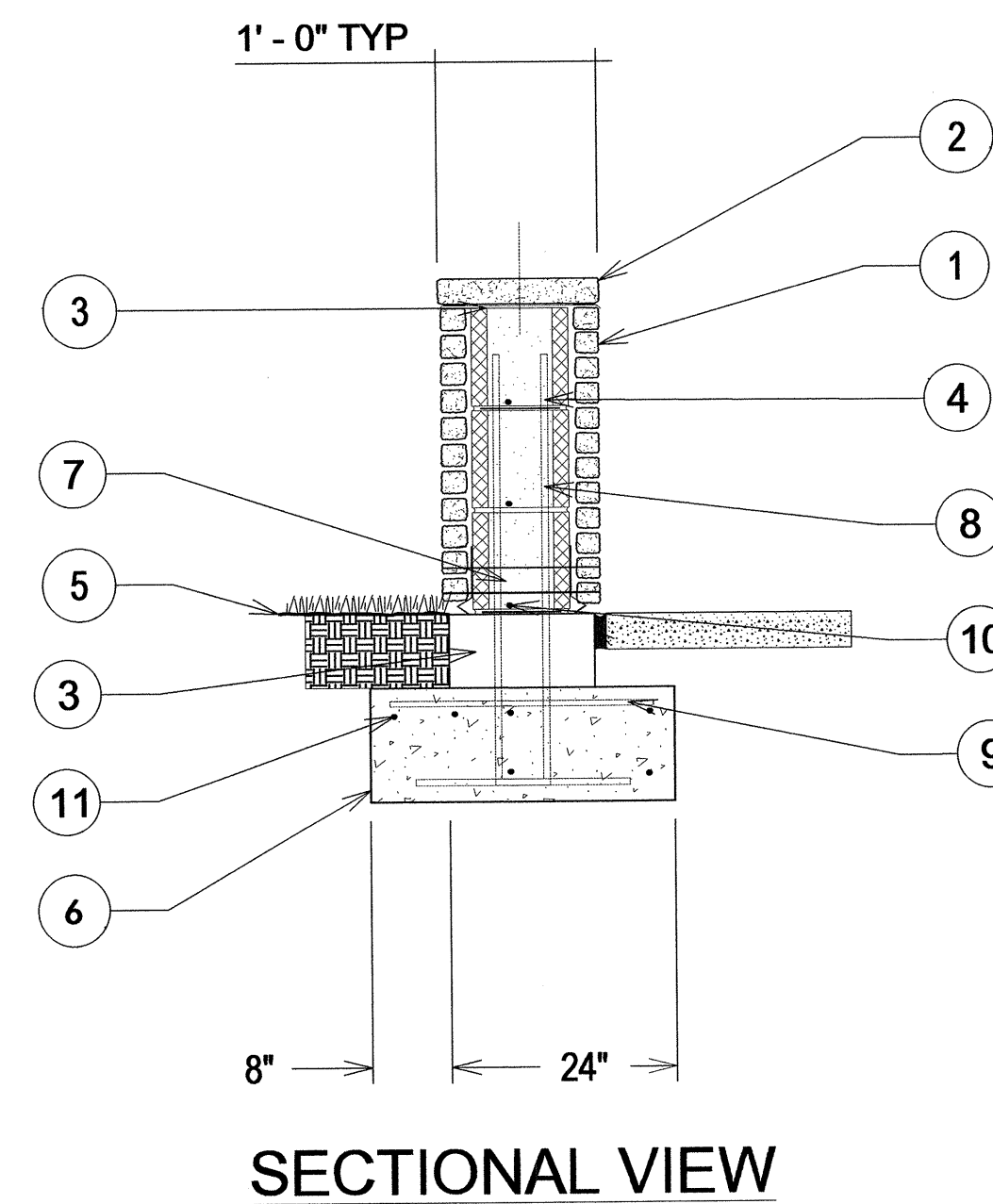
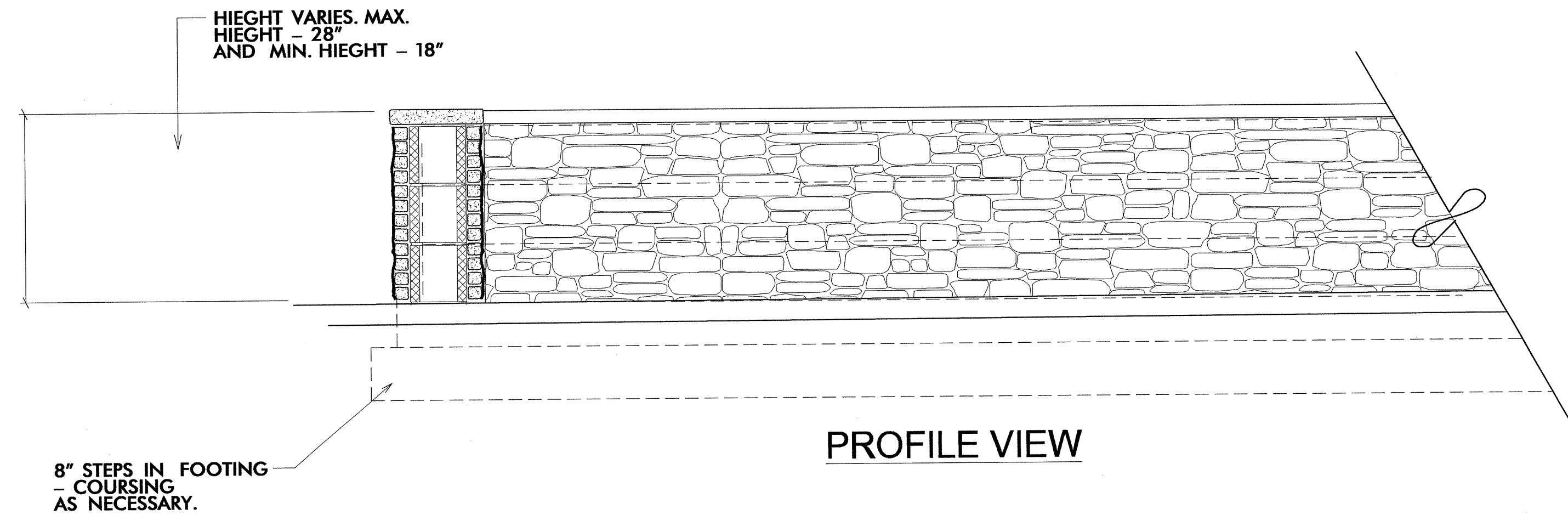


sheet no :

**LD1**

total sheet no : 30

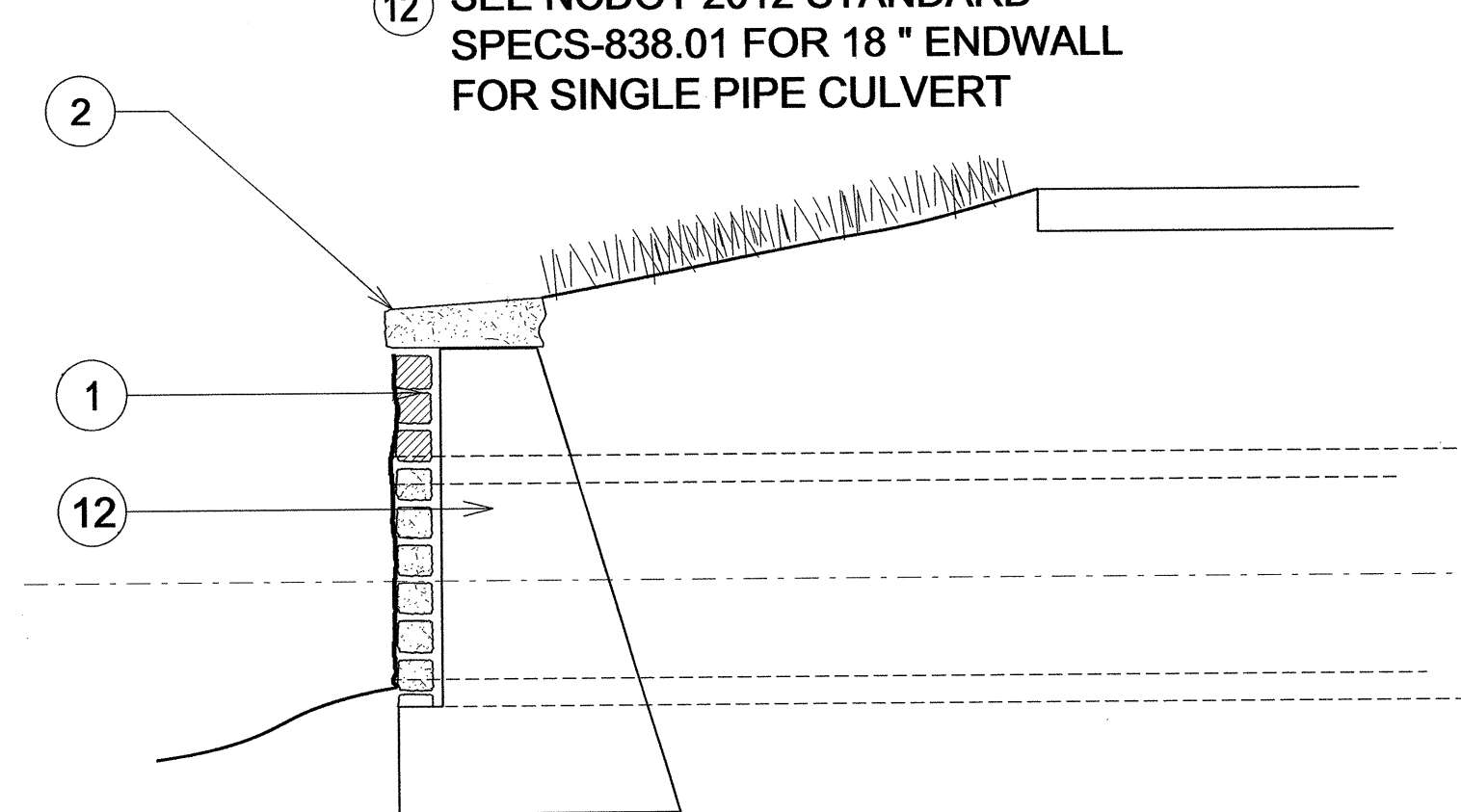
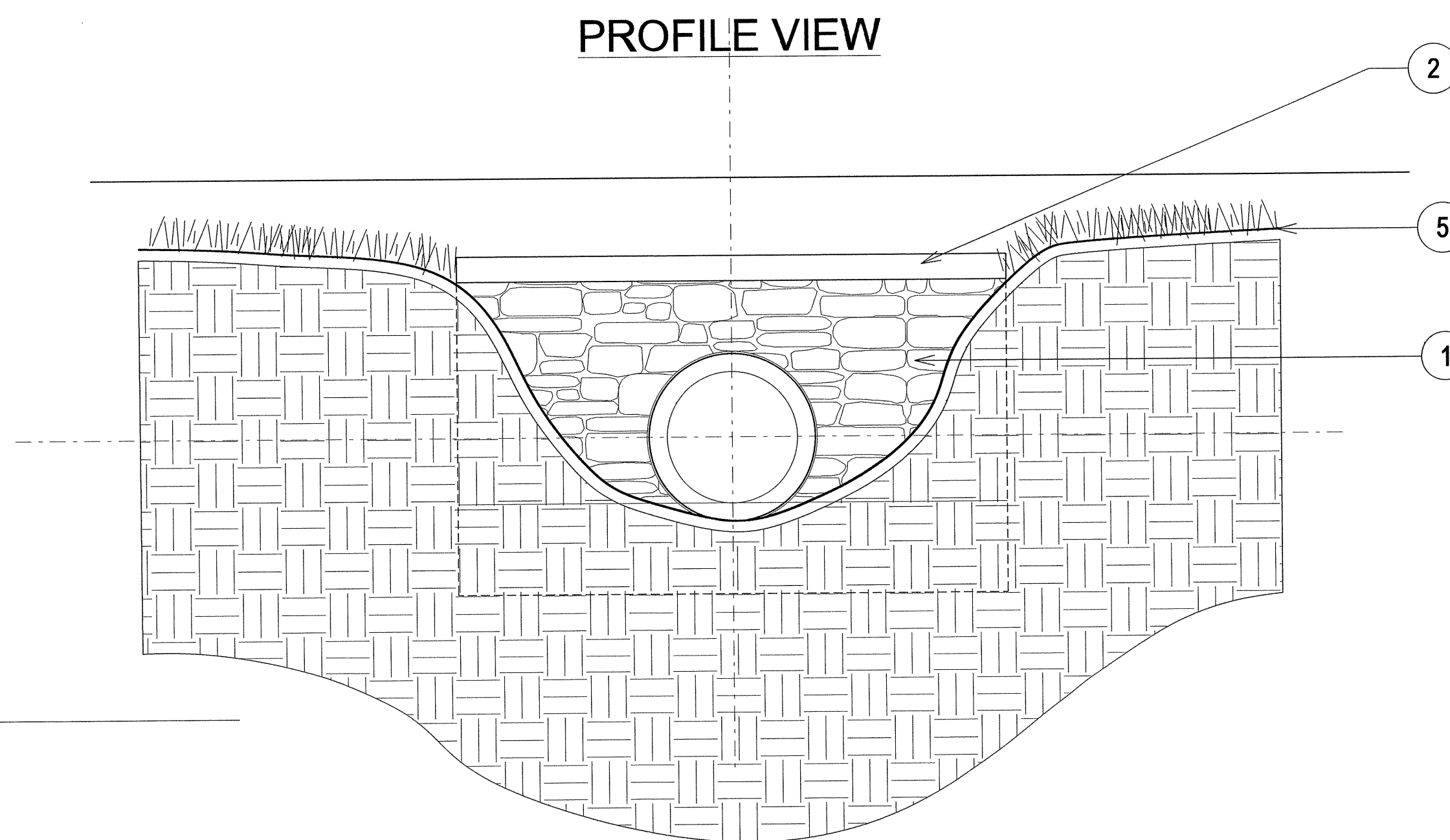
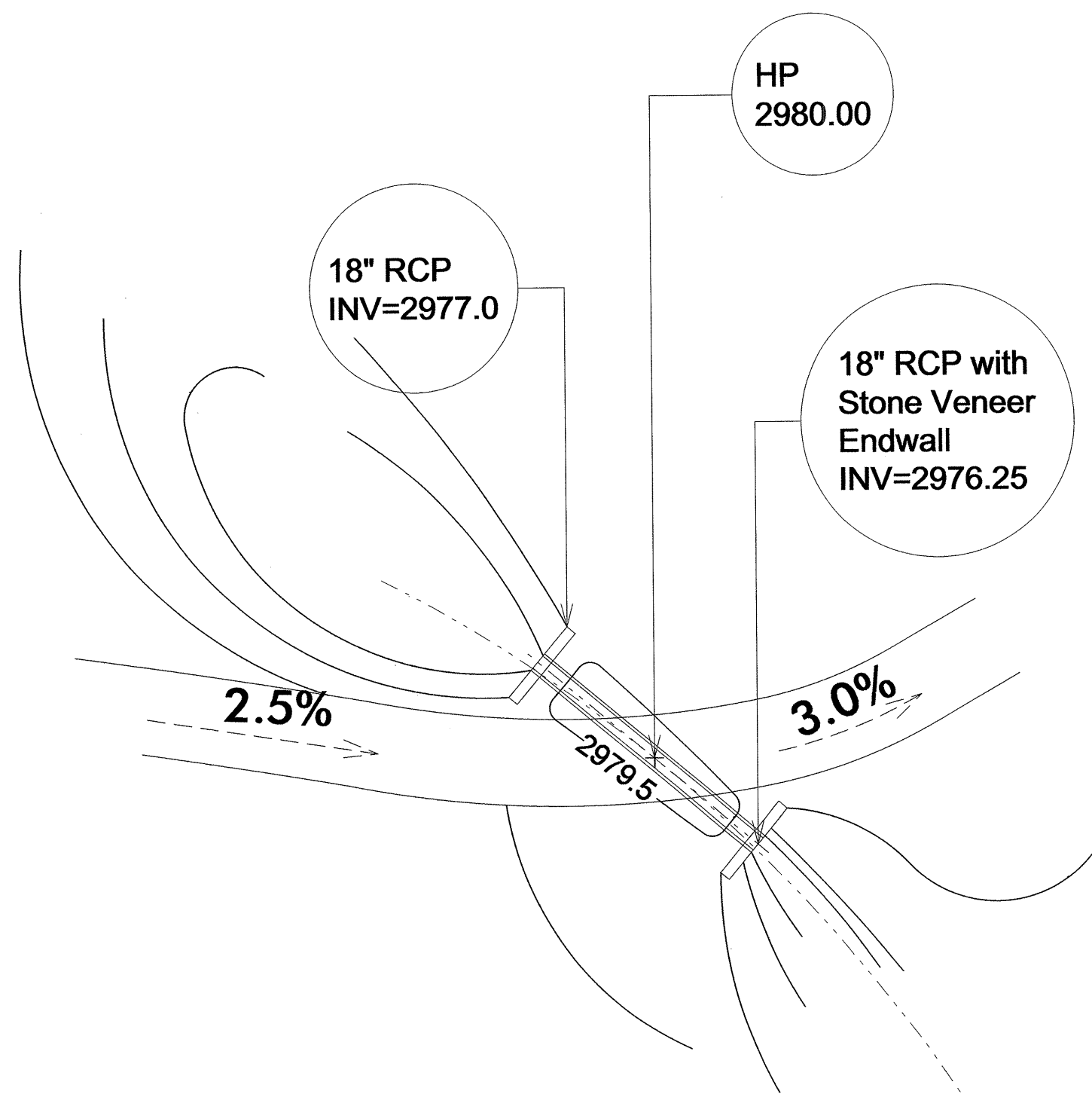




**CONSTRUCTION NOTES:**

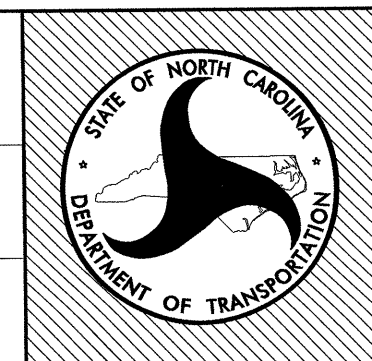
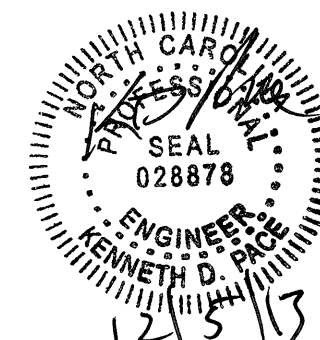
- ① STACKED STONE VENEER TO MATCH BUILDING. ADHERE TO CONCRETE AS PER MANUF SPECS. SEE ARCHITECTURAL PLANS.
- ② 2" THICK CONCRETE MASONRY CAP TO MATCH BUILDING CAP WITH ROCKFACED EDGE. CAPPING LENGTHS SHOULD BE JOINED WITH 1/2" MOTAR JOINTS. TILT CAPPING TO DRAIN TOWARDS TURF AREAS.
- ③ 8"x8"x16" CONCRETE BLOCK UNIT MASONRY
- ④ GALV. MASONRY TIES @ 16" O.C. VERTICALLY
- ⑤ FINISH GRADE.
- ⑥ 6" CONG FOOTER ON COMPACTED STONE BASE-CONCRETE FOOTING 3000 PSI
- ⑦ 2" DIA. WEEP HOLE @ 32" O.C. TILT TO DRAIN TOWARDS TURF.
- ⑧ #4 @ 32" O.C. ALTERNATE SIDES
- ⑨ #4 @ 16" O.C. HORIZONTAL
- ⑩ #3 @ 8" O.C. HORIZONTAL
- ⑪ 6 - #4
- ⑫ SEE NCDOT 2012 STANDARD SPECS-838.01 FOR 18" ENDWALL FOR SINGLE PIPE CULVERT

**LD2** SEATWALL DETAIL (Stacked Stone Veneer)-TYPICAL  
**A** SCALE - 3/4" = 1'-0"



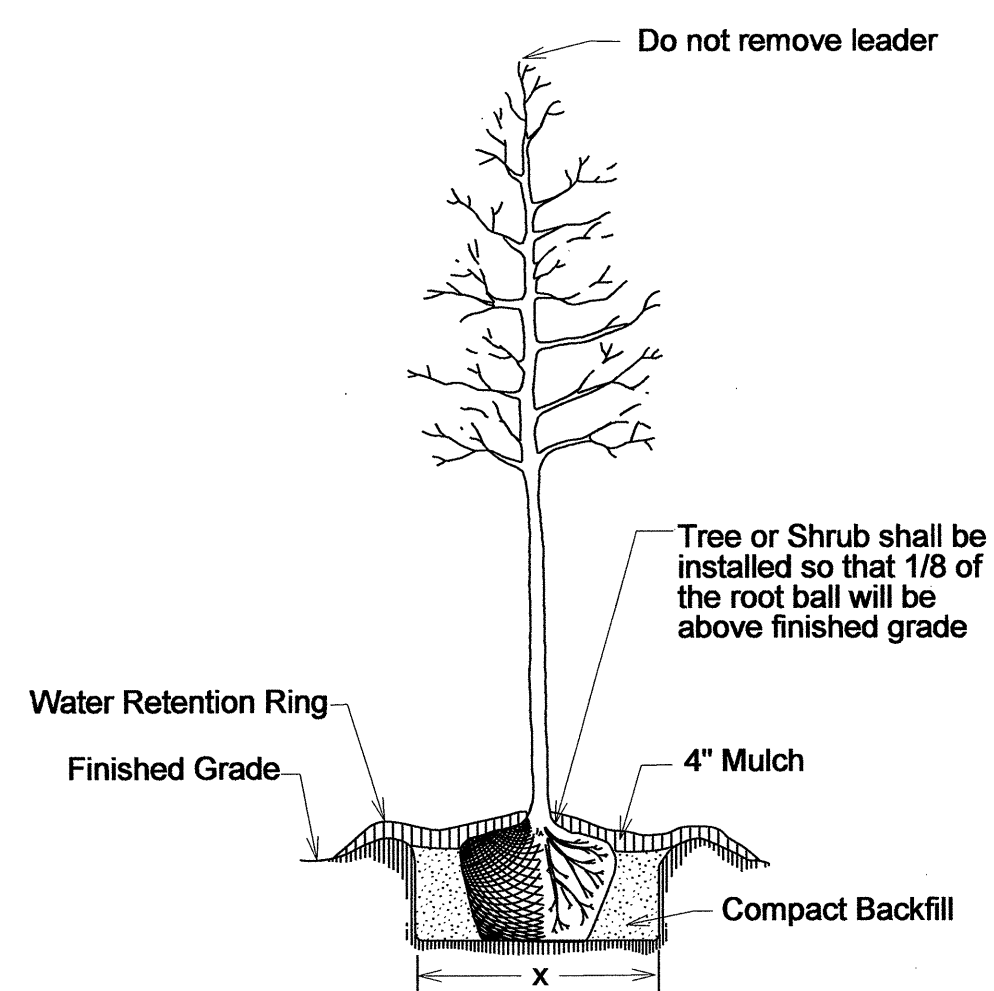
**LD2** CONCRETE ENDWALL FOR SINGLE CULVERT (Stacked Stone Veneer Facing)-TYPICAL  
**B** NOT TO SCALE

**SECTIONAL VIEW**

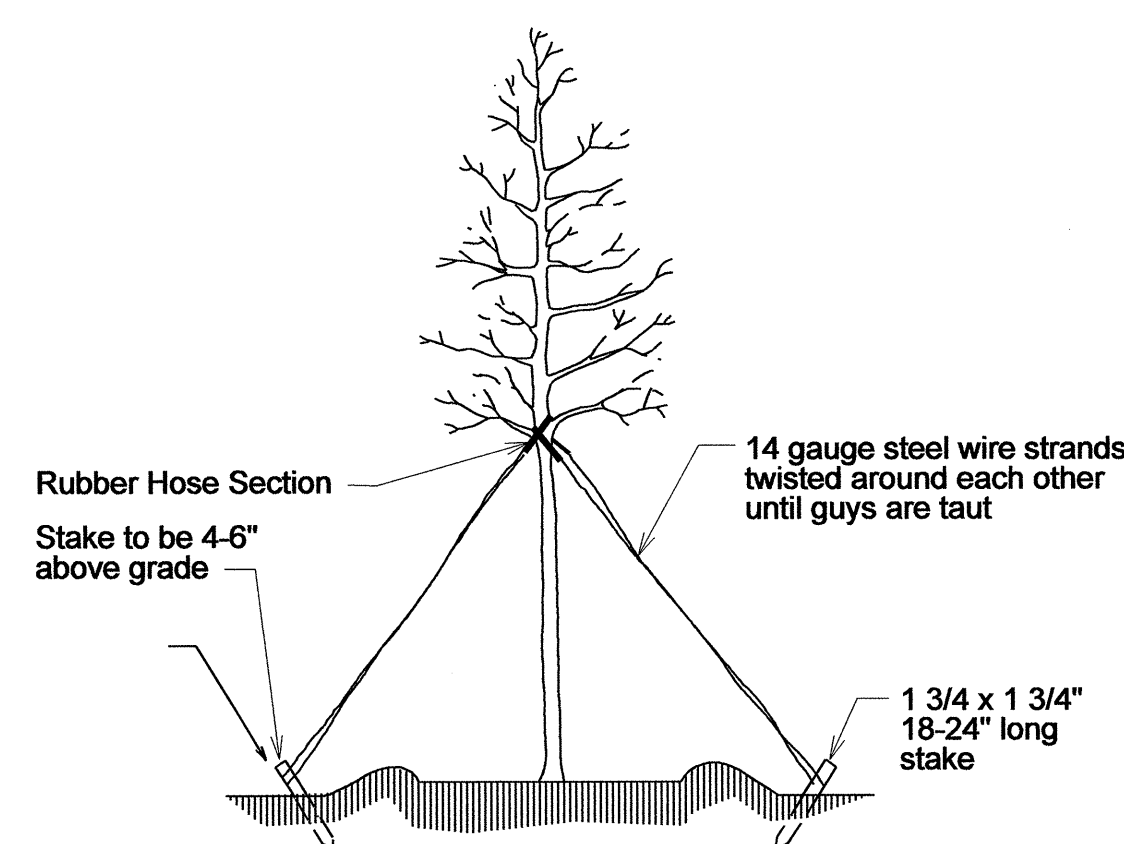






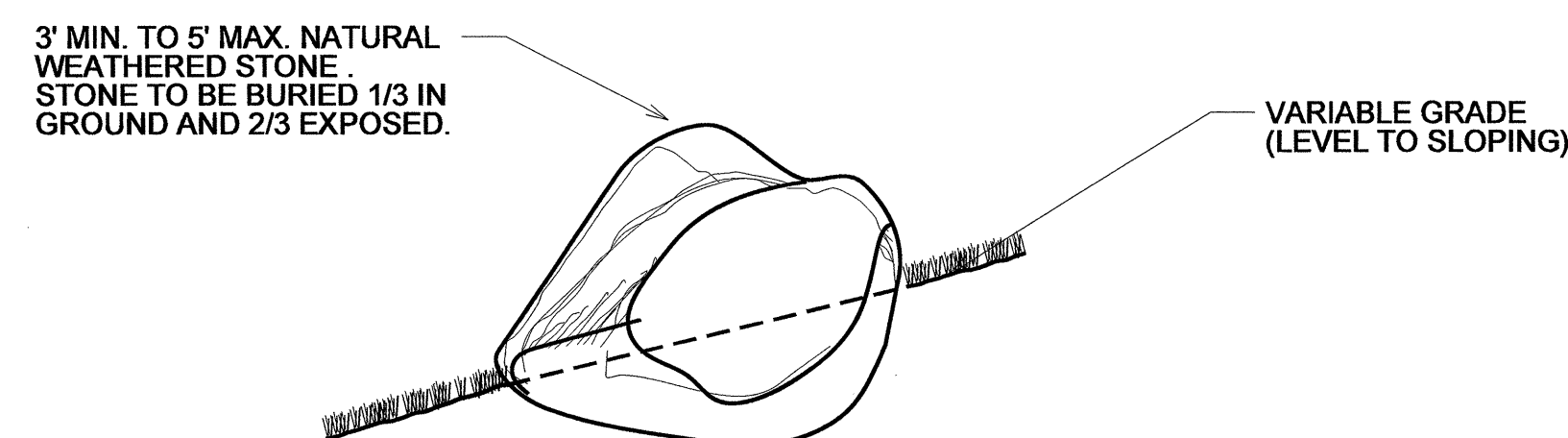


**TREE OR SHRUB PLANTING DETAIL**  
(LEVEL GROUND)

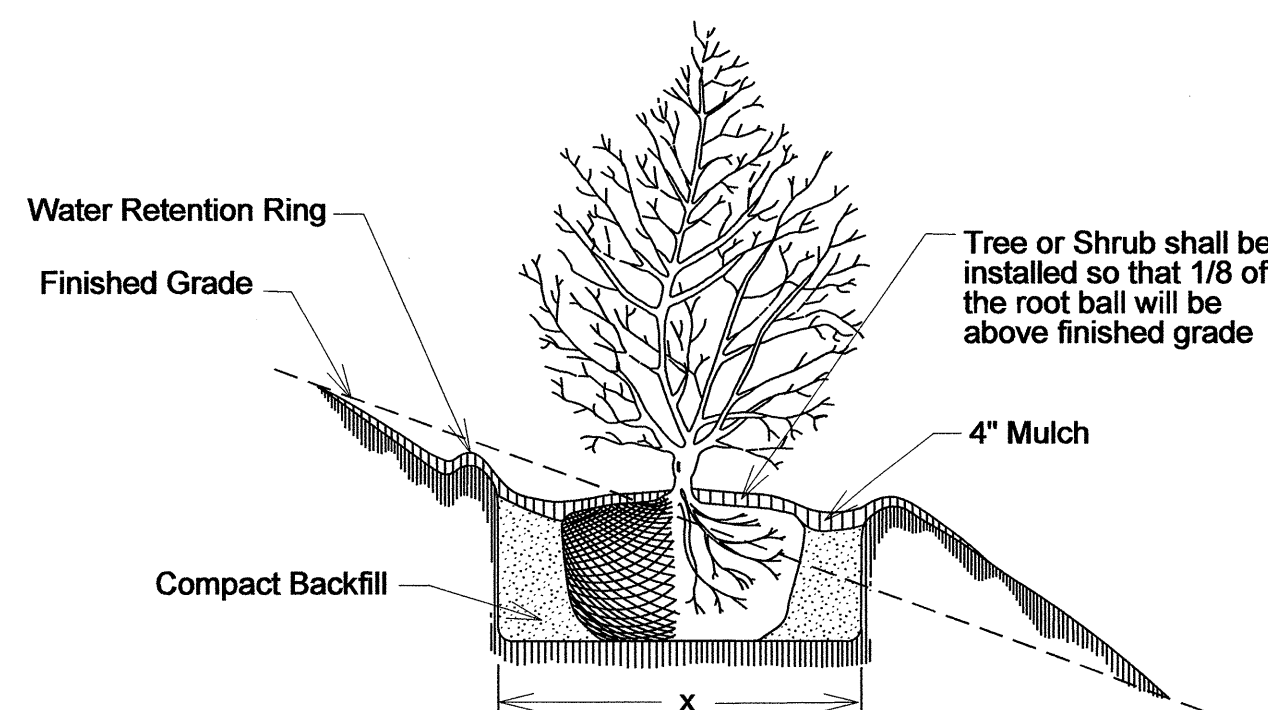


**TREE GUYING DETAIL**  
(FOR TREES 10' OR LARGER)

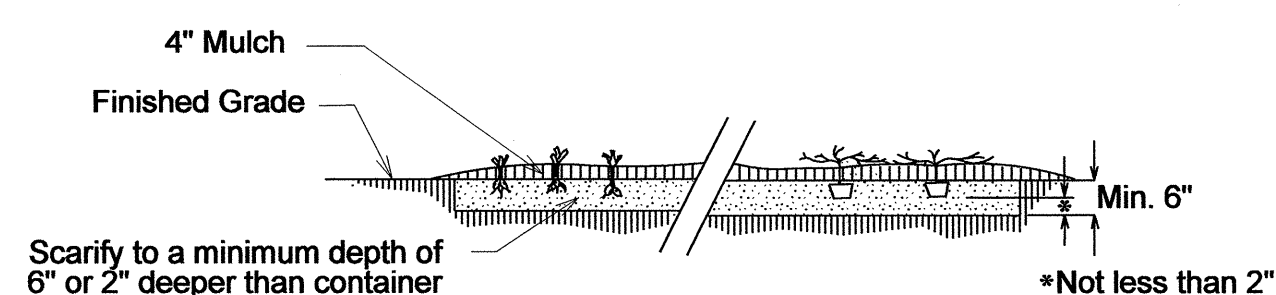
\* Utilize guying detail only if requested by the Engineer.



**BOULDER PLACEMENT DETAIL**  
TYPICAL



**TREE OR SHRUB PLANTING DETAIL**  
(SLOPING GROUND)

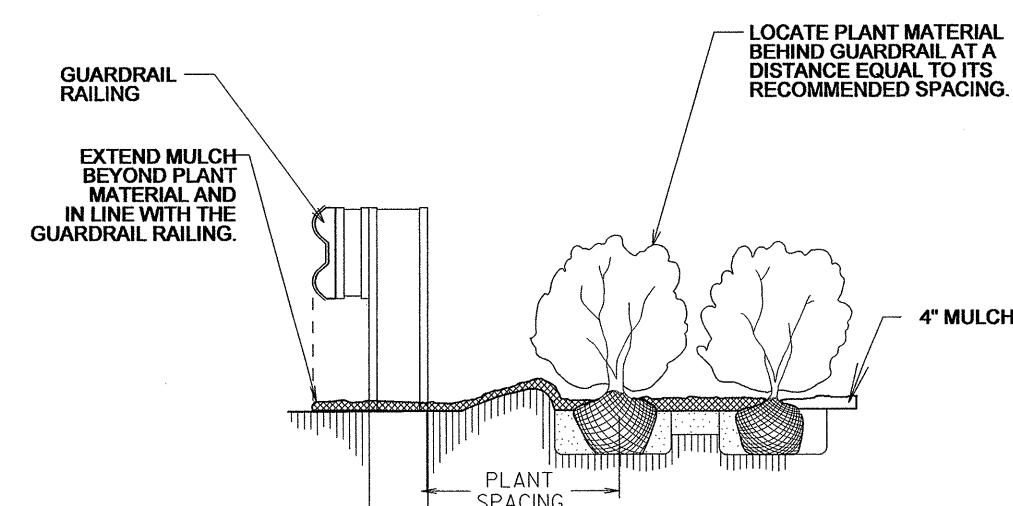


**Groundcover Planting Detail**

\*Plants may be planted before or after mulching operation

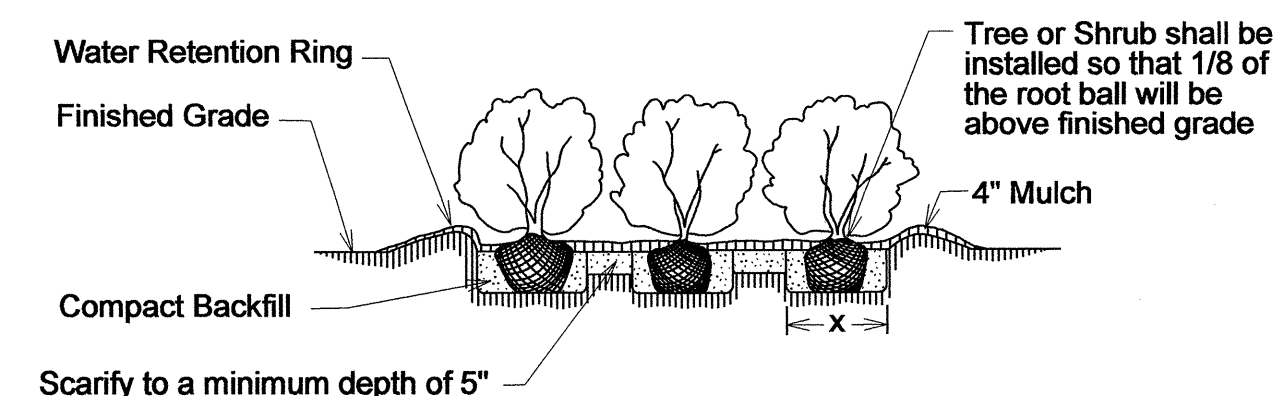
Align Grasses around the edge of plant bed to establish GRID. Start center of grasses & perennials half the spacing distance from edge of plant bed

Establish the O.C. Grid for Grasses & Perennials. See Plant List for individual spacing.



**GUARDRAIL MULCHING DETAIL**

\* Detail to be used when approved by the Engineer.



**Shrub Bed Planting Detail**

Scarify to a minimum depth of 5"

**NOTES:**

SCHEDULE FOR PLANT HOLE SIZE:  
CONTAINER OR ROOT BALL SIZE  
X = 2 TIMES THE DIAMETER OF THE CONTAINER OR THE ROOT BALL DIAMETER

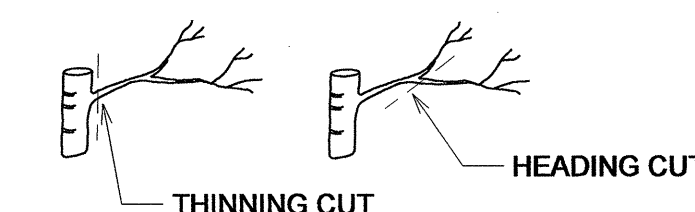
FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING. FERTILIZER SHALL BE A SLOW RELEASE PELLET OR TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER IN THE FIELD.

RATES SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND APPROVED BY THE ENGINEER IN THE FIELD. THOROUGHLY MIX WITH TOPSOIL, BACKFILL OR SCARIFIED SOIL.

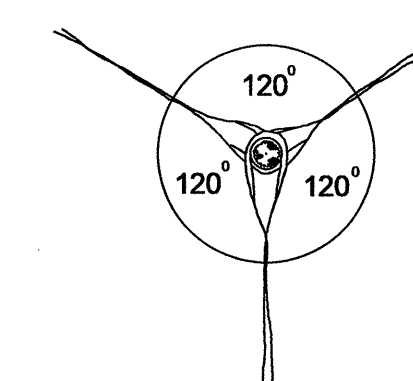
REMOVE BURLAP FROM TOP OF BALL BEFORE BACKFILLING AROUND BALL IS COMPLETE

SEE STANDARD SPECIFICATIONS FOR PLANT BED HERBICIDE TREATMENT

When mulched bed is adjacent to guard rail run mulch to front edge of guard rail - see detail



**PRUNING CUTS**

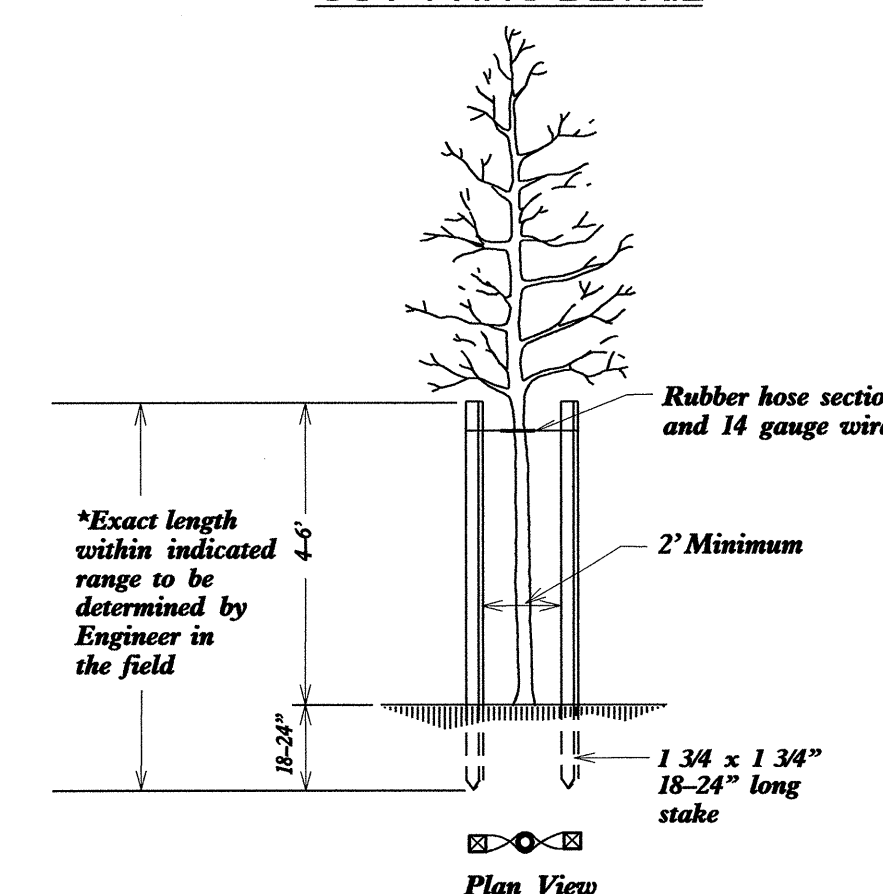


**GUY SPACING DETAIL**

Section of rubber hose or manufactured ties between wires and tree bark

14 Gauge steel wire

**GUY TYING DETAIL**

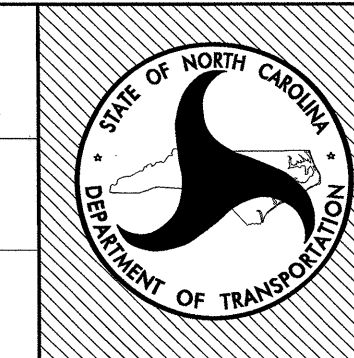
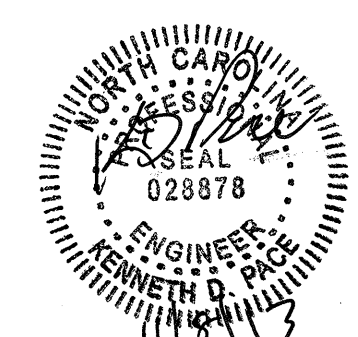


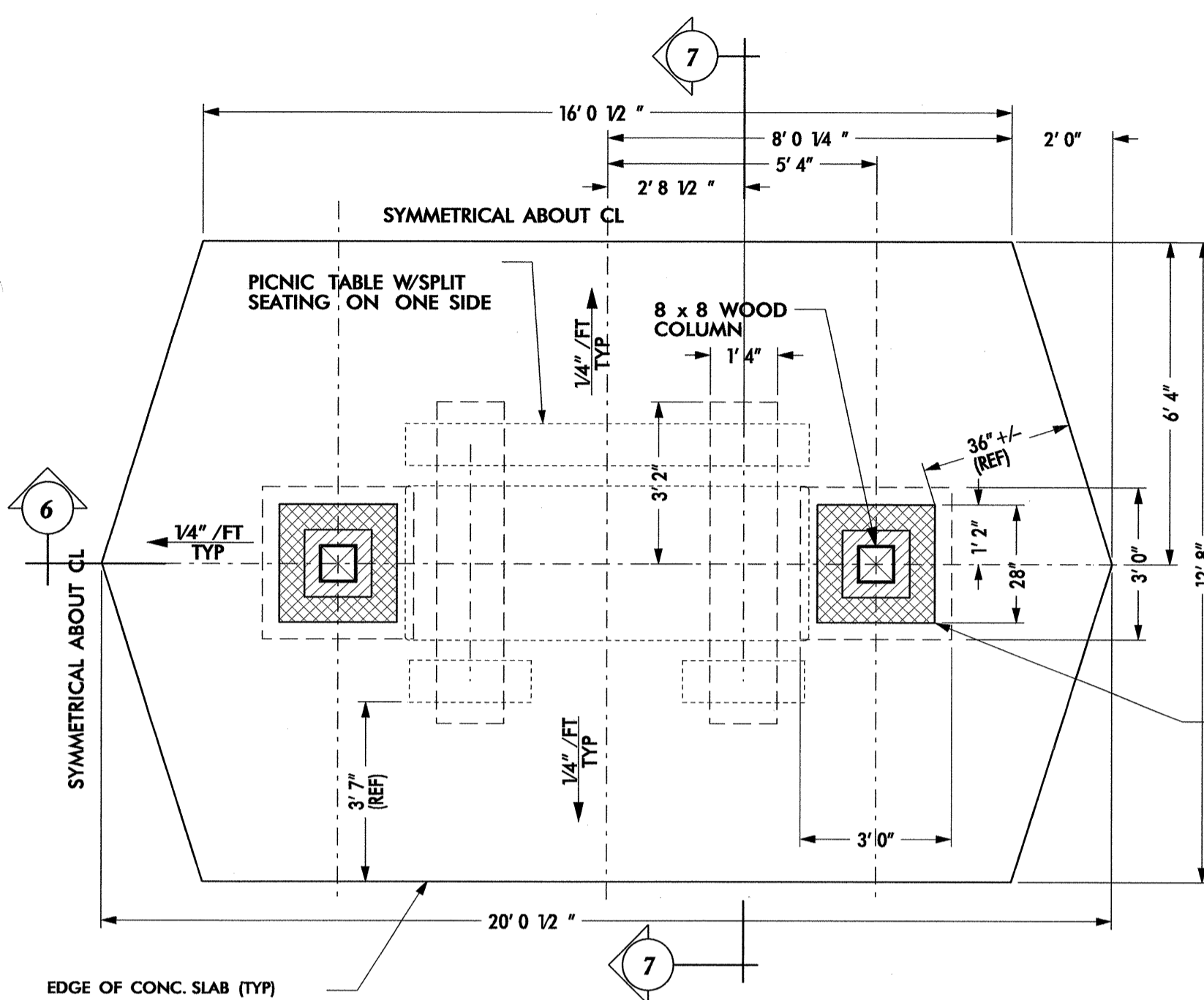
**STAKING DETAIL**  
(FOR TREES 6' TO 10')

\* Utilize staking detail only if requested by the Engineer.

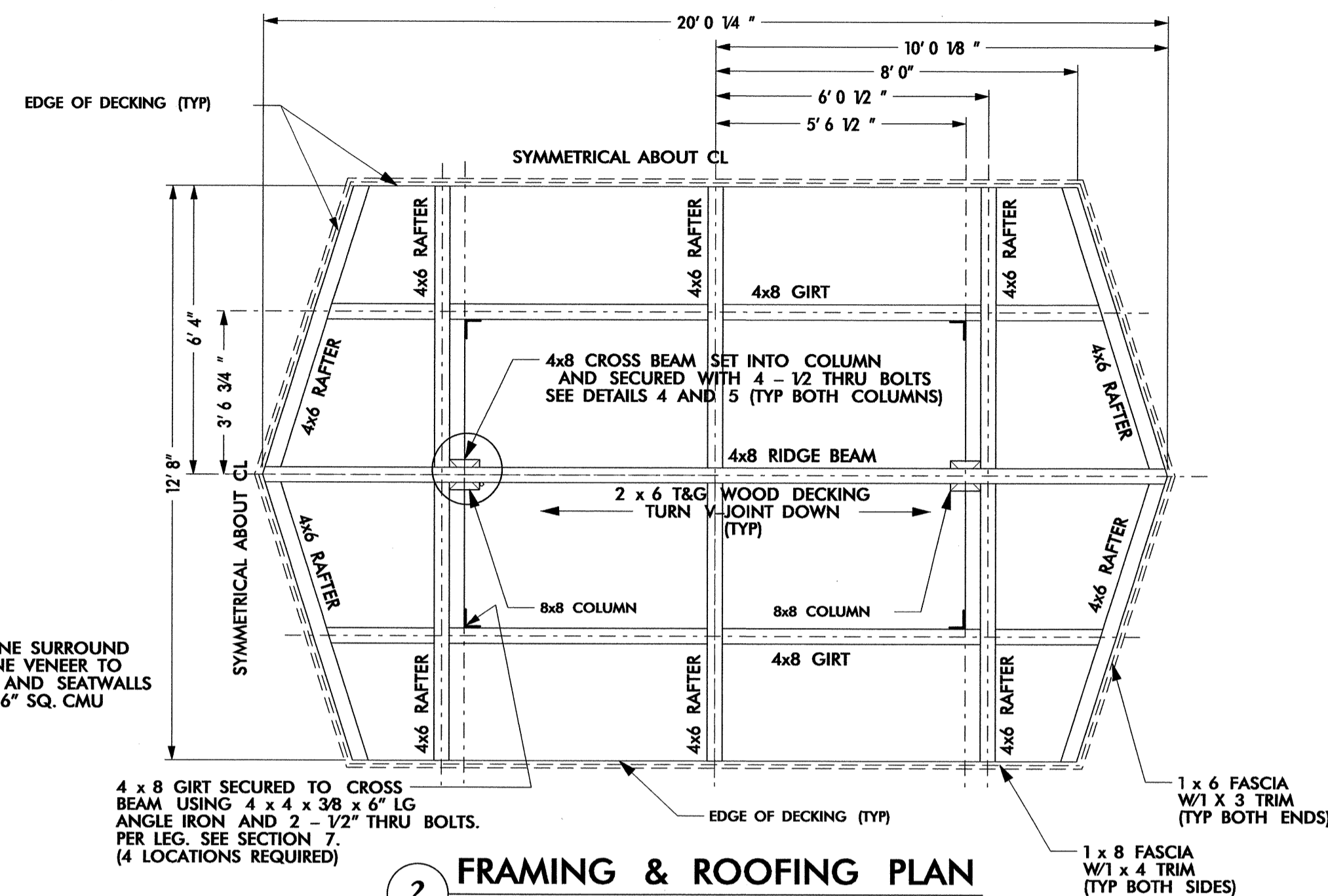
**Typical Section @ Cut Slopes**  
No Scale

**Typical Plan View @ Layout for Native Grass & Perennial Plantings**  
No Scale

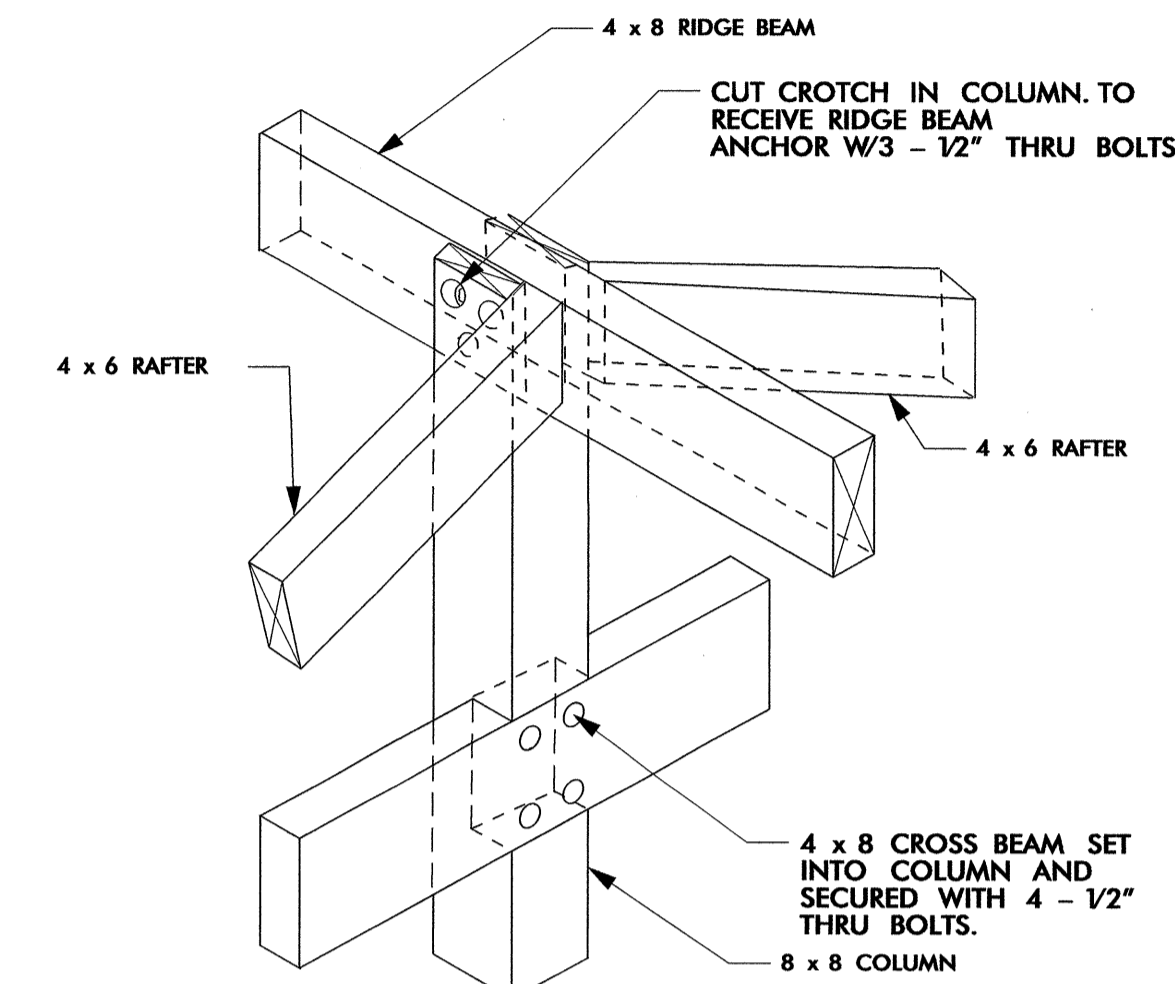




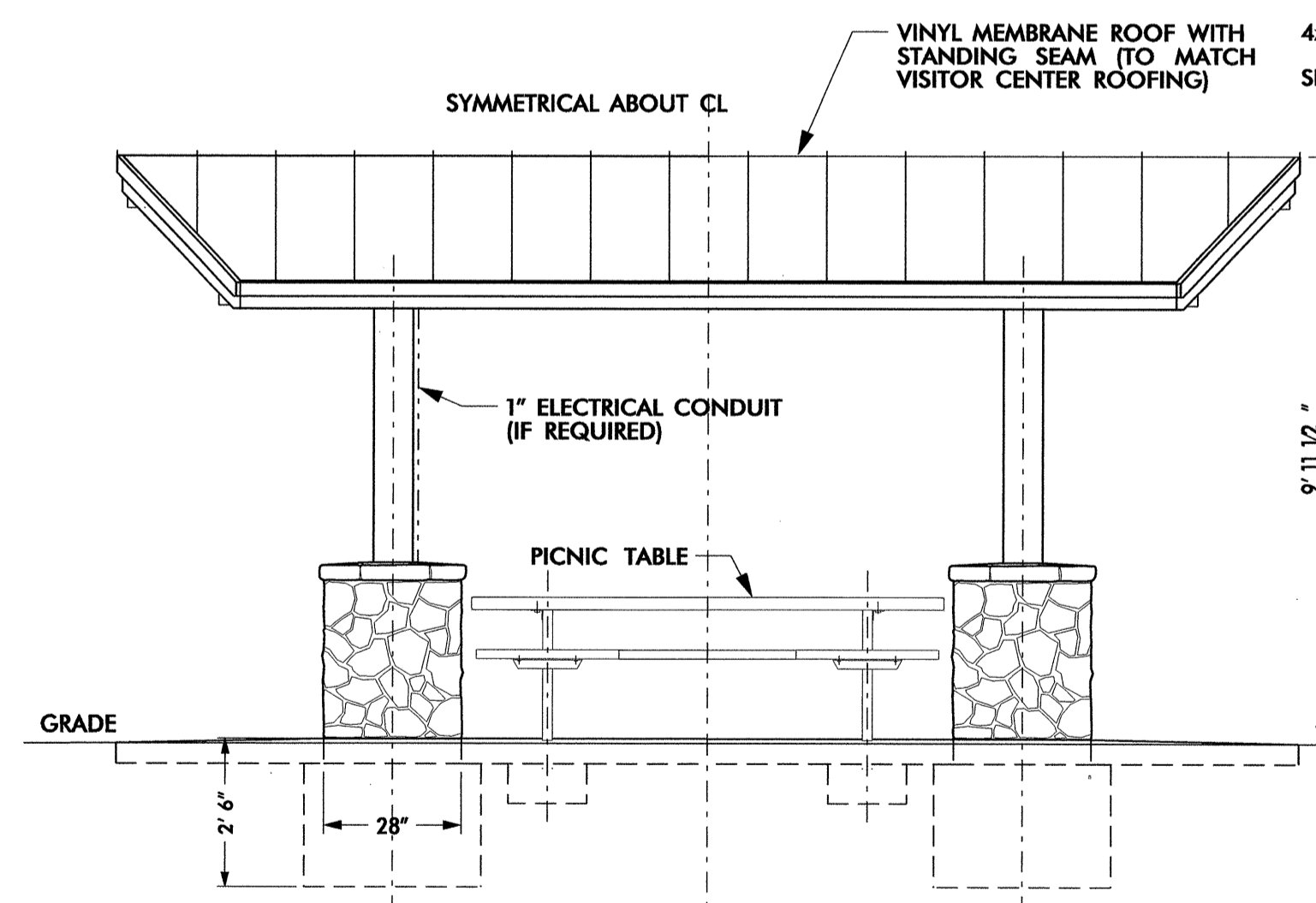
**1 CONCRETE PAD PLAN**  
1/2" = 1' 0"



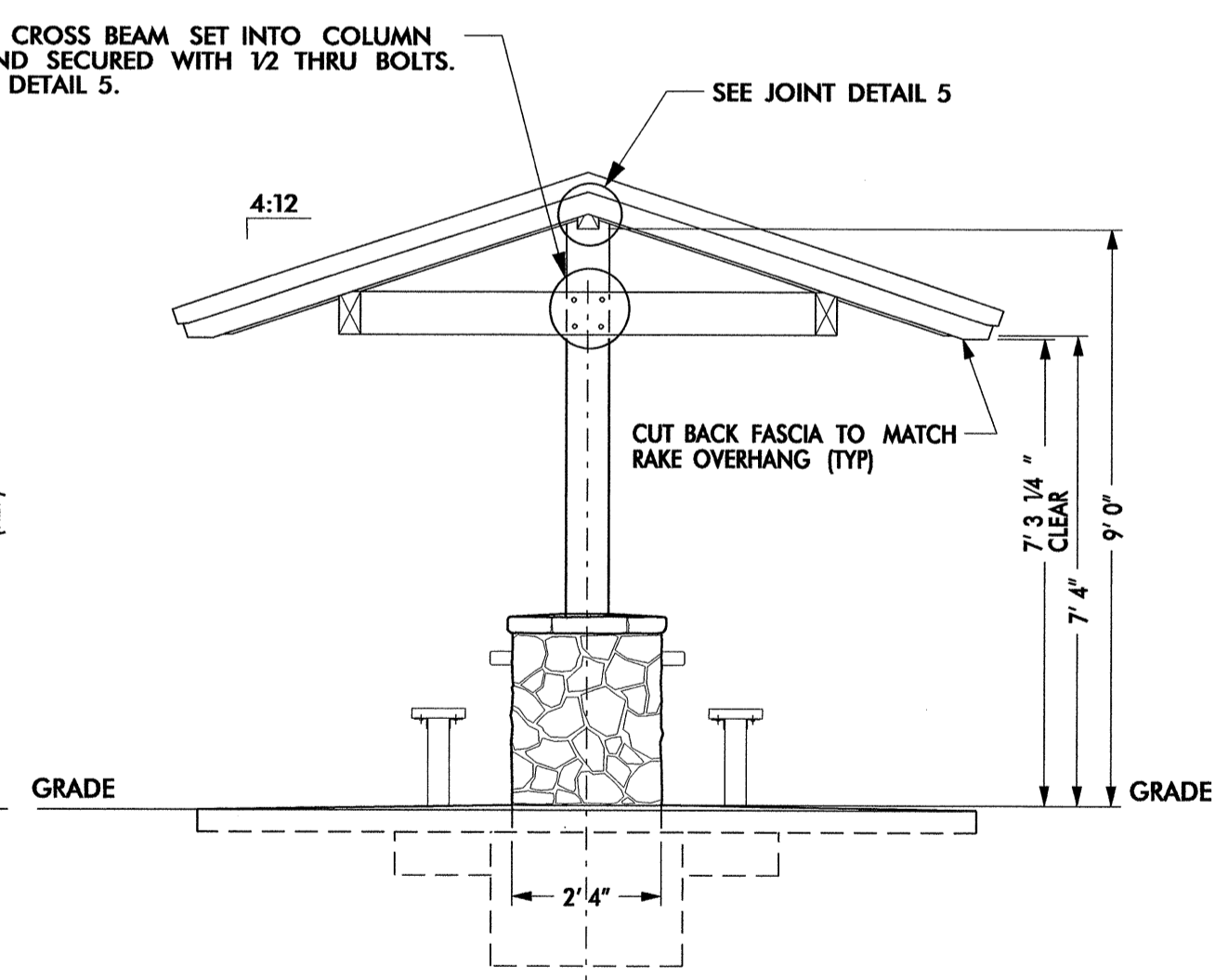
**2 FRAMING & ROOFING PLAN**  
1/2" = 1' 0"



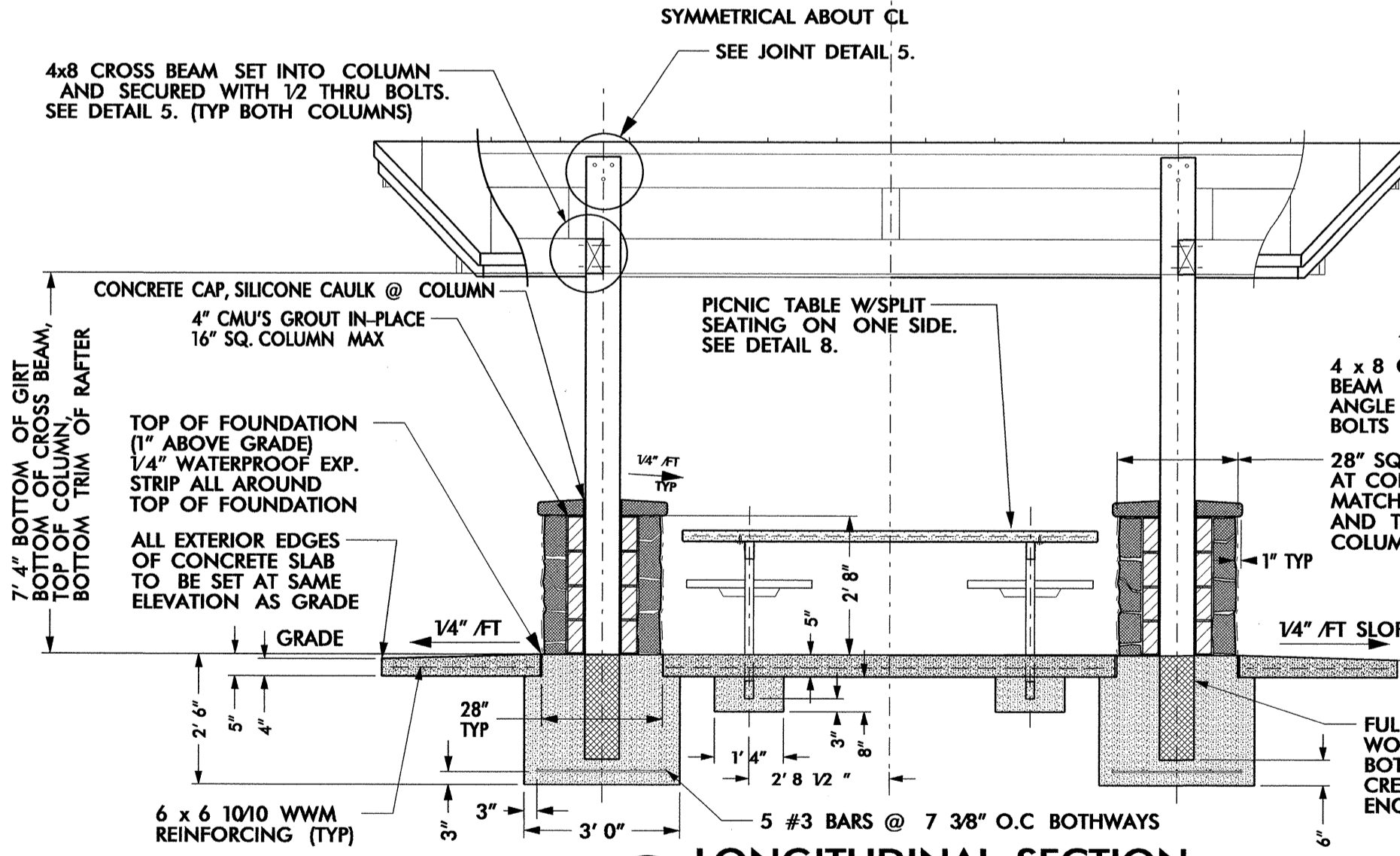
**5 JOINT DETAIL**  
NO SCALE



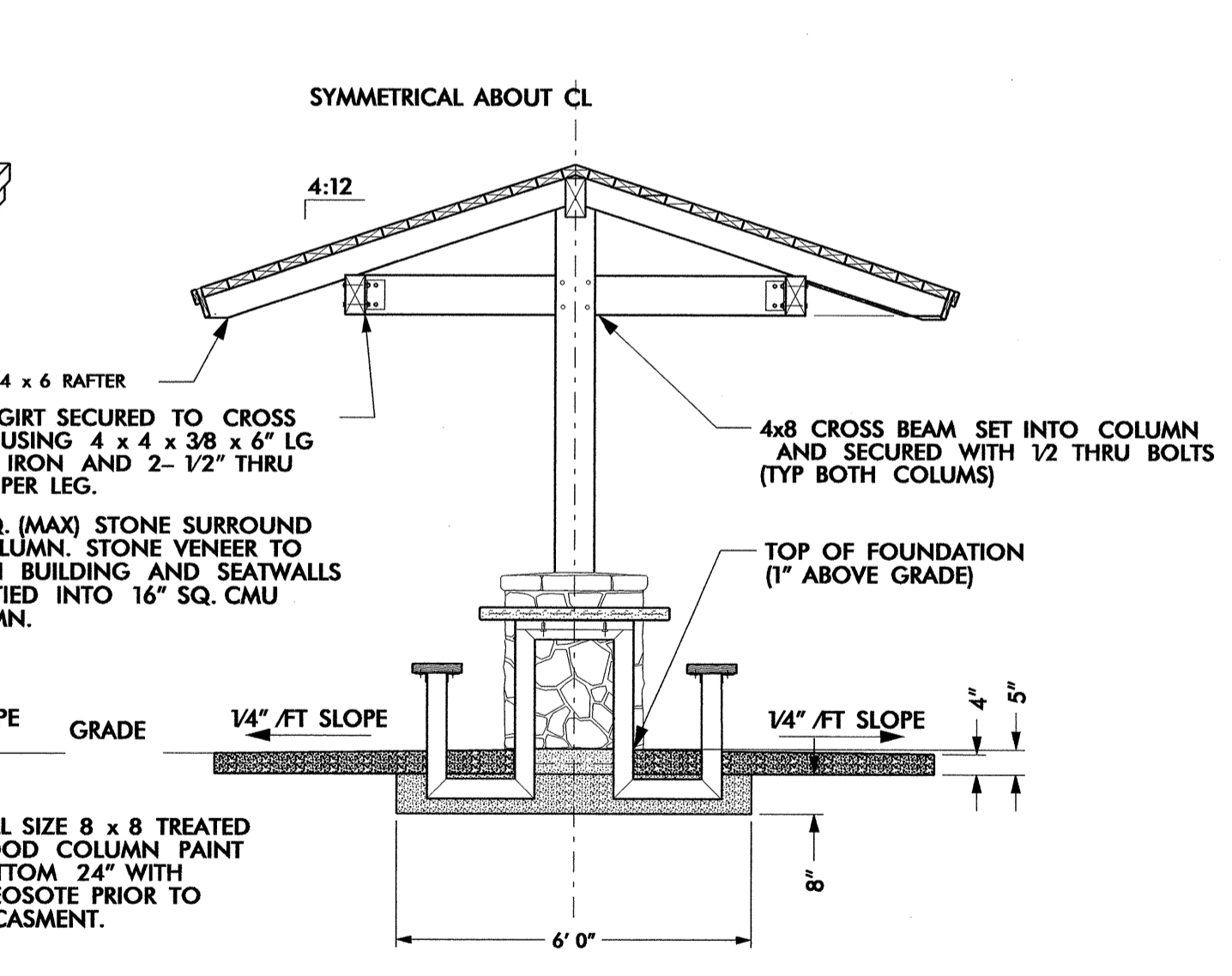
**3 FRONT ELEVATION**  
1/2" = 1' 0"



**4 END ELEVATION**  
1/2" = 1' 0"



**6 LONGITUDINAL SECTION**  
1/2" = 1' 0"

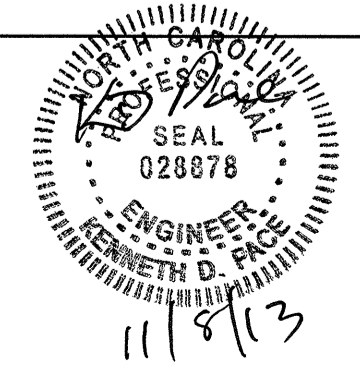


**7 CROSS SECTION**  
1/2" = 1' 0"

**Picnic Shelter /Table**

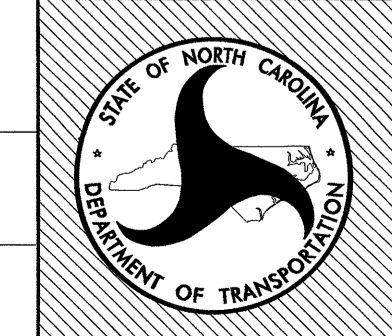
NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
 LANDSCAPE DESIGN & DEVELOPMENT  
 1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557  
 PH: 919-707-2920 FAX: 919-733-9810  
[http://www.ncdot.org/doh/operations/dp\\_chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

US 23 / 74 -SBL & NBL Rest Area Development  
 Haywood County, North Carolina  
 project #: K-5002 / CONTRACT C203202



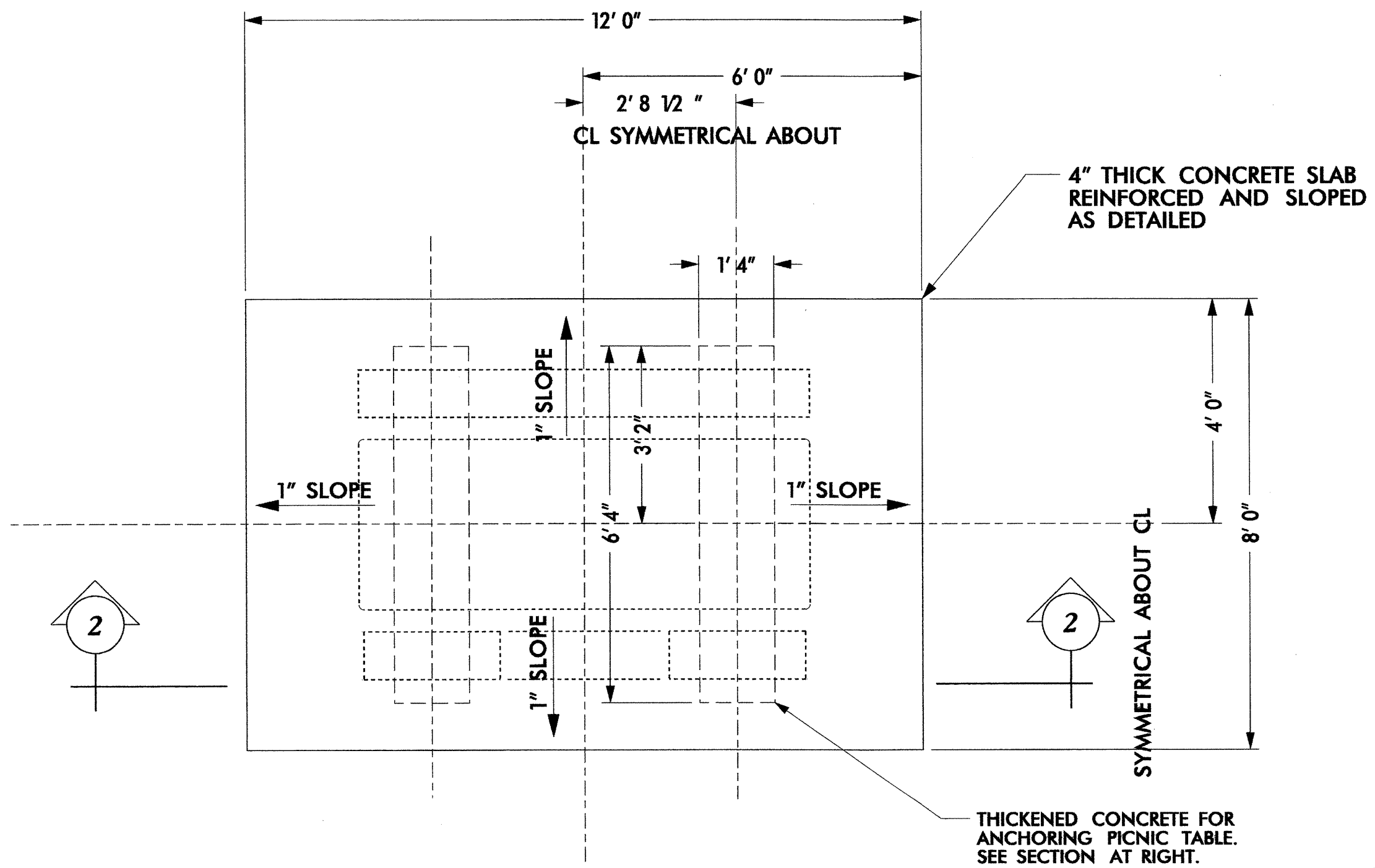
Design & Development Plans  
 Picnic Shelter with Stone Veneer Base

prel design date:  
 checked by & date:  
 final design date:

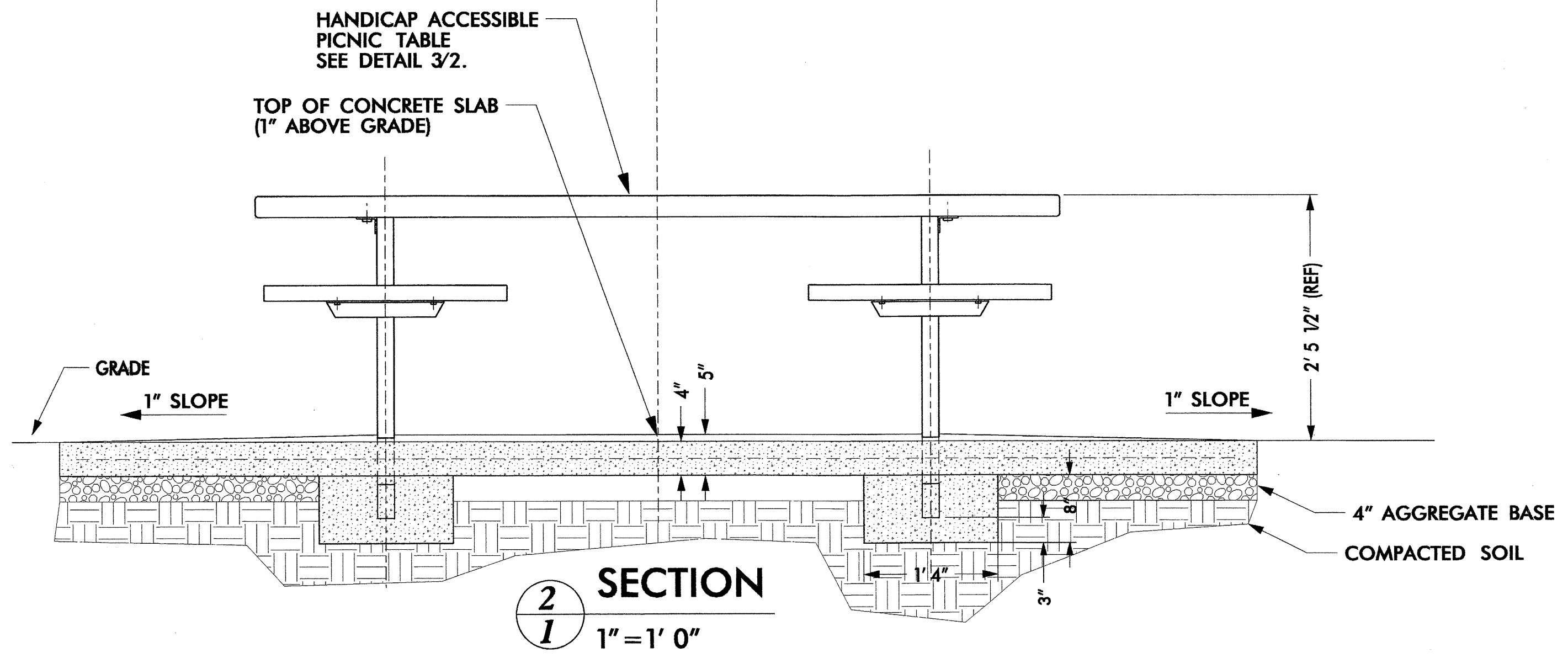


sheet no:  
**LD5**  
 total sheet no: 30

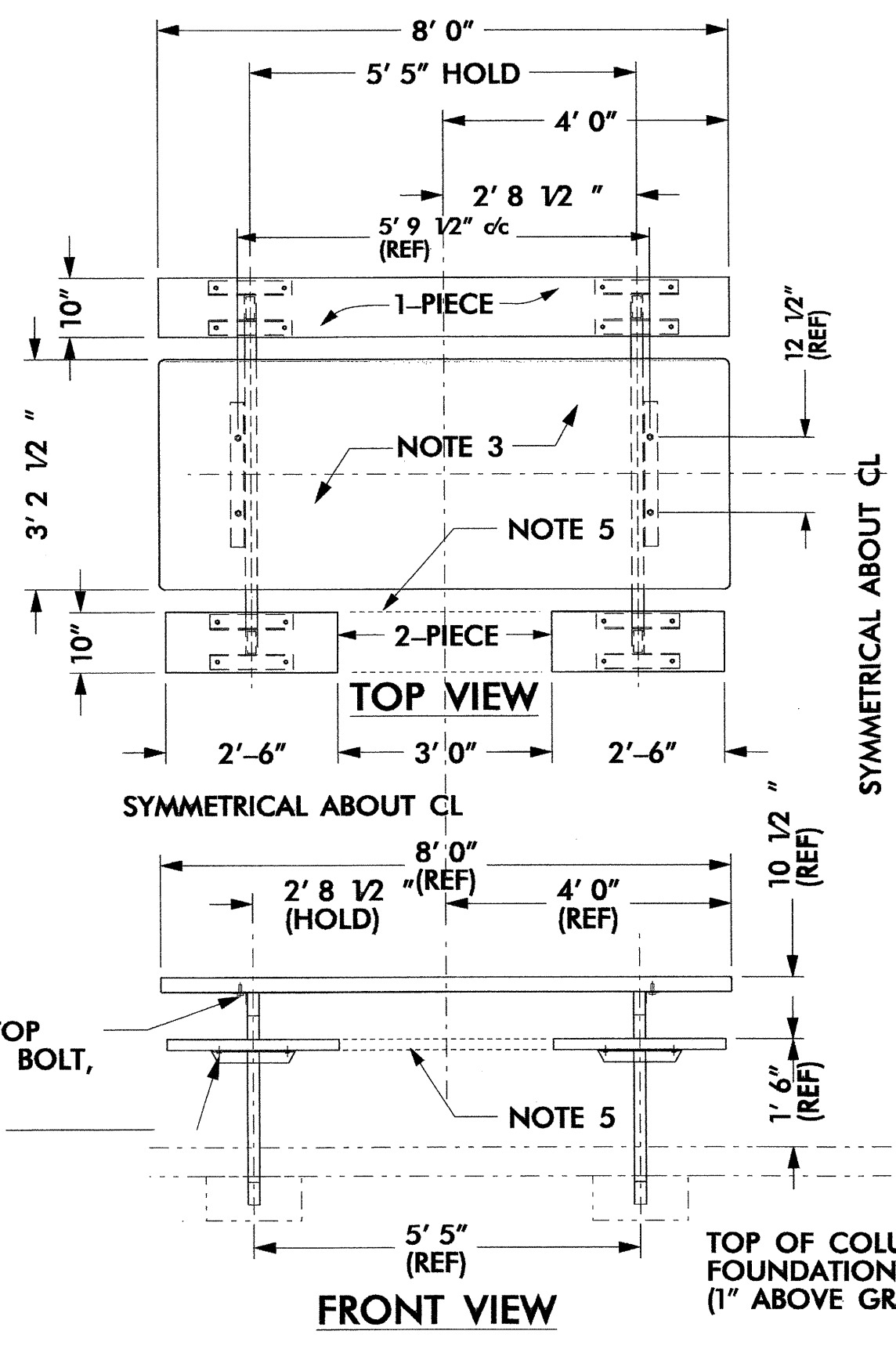




**1 CONCRETE PAD PLAN**  
1/2" = 1' 0"

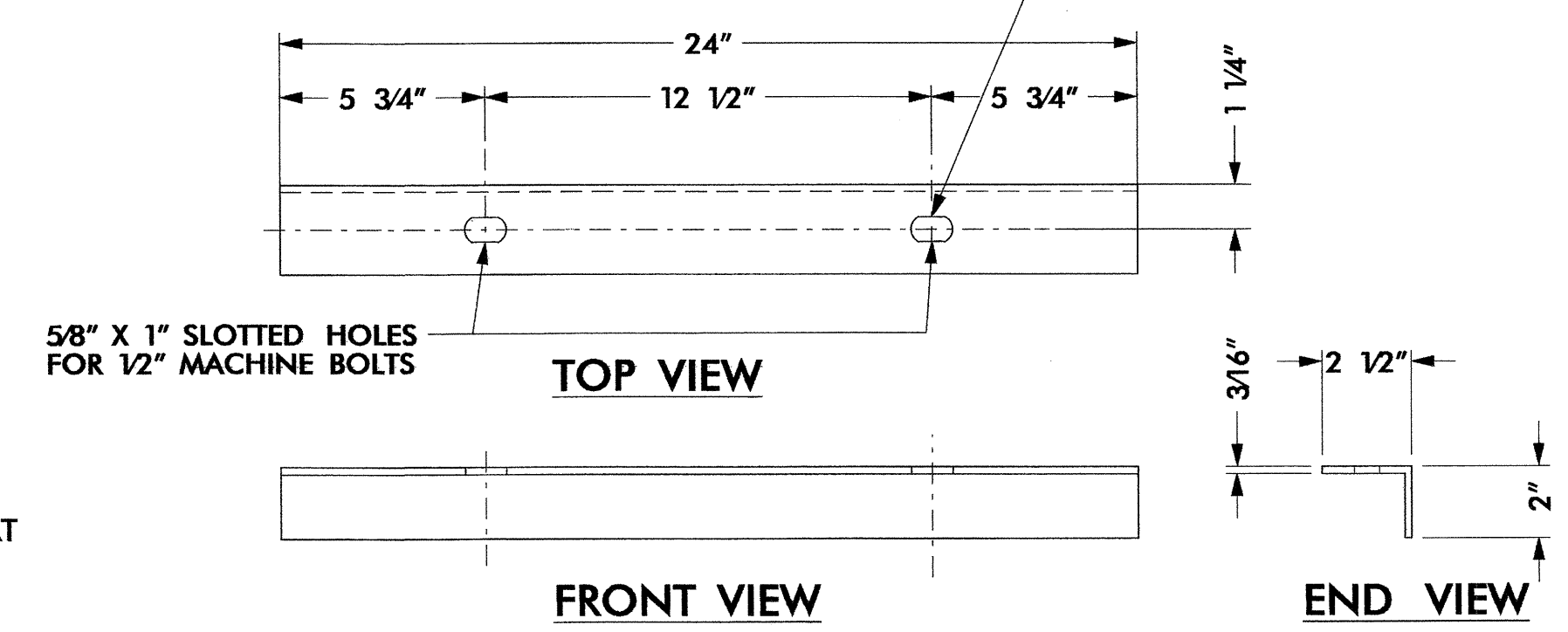


**2 SECTION**  
1" = 1' 0"



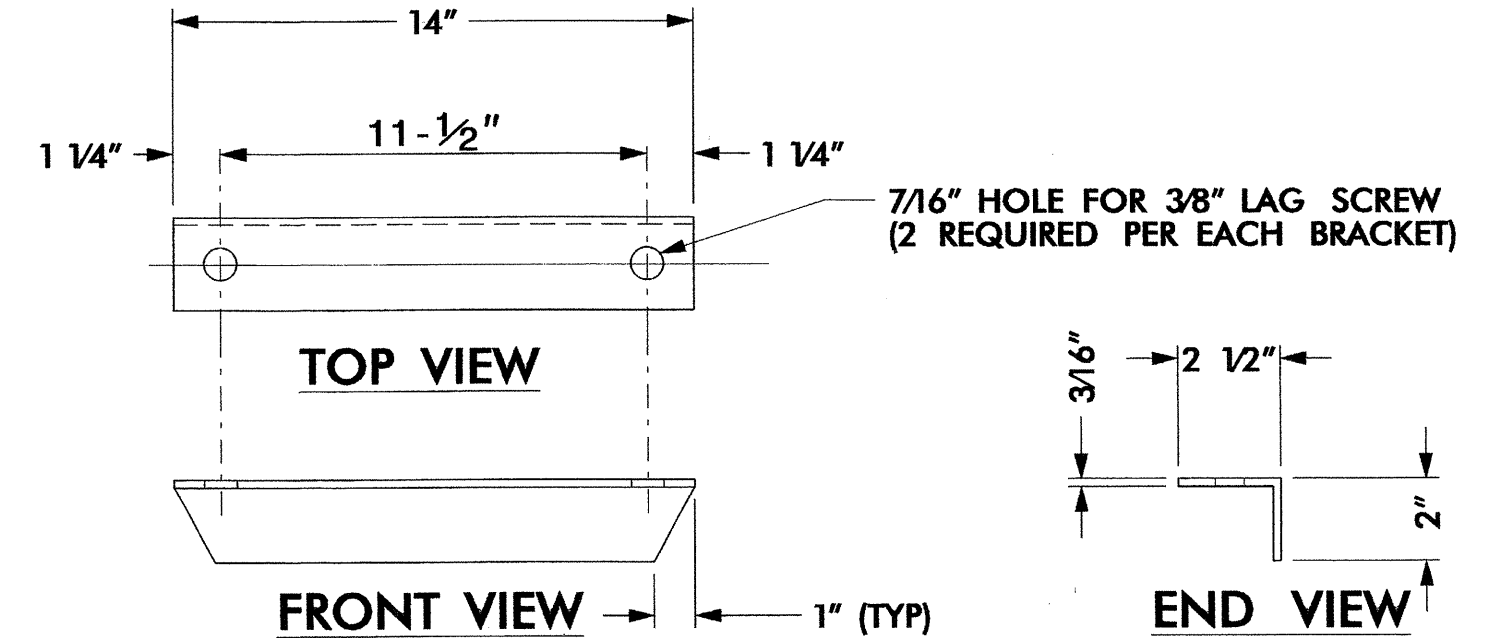
**8 PICNIC TABLE - ORTHO GRAPHIC VIEWS**  
1/2" = 1' 0"

- NOTE:
- 1) TUBULAR PICNIC TABLE FRAME SHALL BE 2" x 4" x 1/4" RECTANGULAR STEEL TUBING.
  - 2) MITER ALL CORNERS, CONTINUOUS WELD ALL CONNECTIONS AND GRIND SMOOTH. (TYP ALL TUBULAR FRAMING AND STEEL ANGLES).
  - 3) PICNIC TABLETOP SHALL BE PRECAST TERRAZZO. SPECIFICATION SHALL BE THE SAME AS (OR EQUAL TO) SAMPLE #061217-1, AS SUPPLIED BY PRECAST TERRAZZO ENTERPRIZES, INC., 1107 N. NEW HOPE ROAD, RALEIGH, NC, 27610. TELE: 800.849.8849/919.231-6200, EXT 105
  - 5) NON-HANDICAP TABLE REQUIRES ONE (1) PIECE SEAT ON BOTH SIDES OF TABLE. HANDICAP TABLE REQUIRES TWO (2) PIECE SEAT ON ONE SIDE OF TABLE. ORIENT 2-PIECE SEAT ADJACENT TO 4" CONCRETE ACCESS PAD SHOWN ON SITE PLAN.

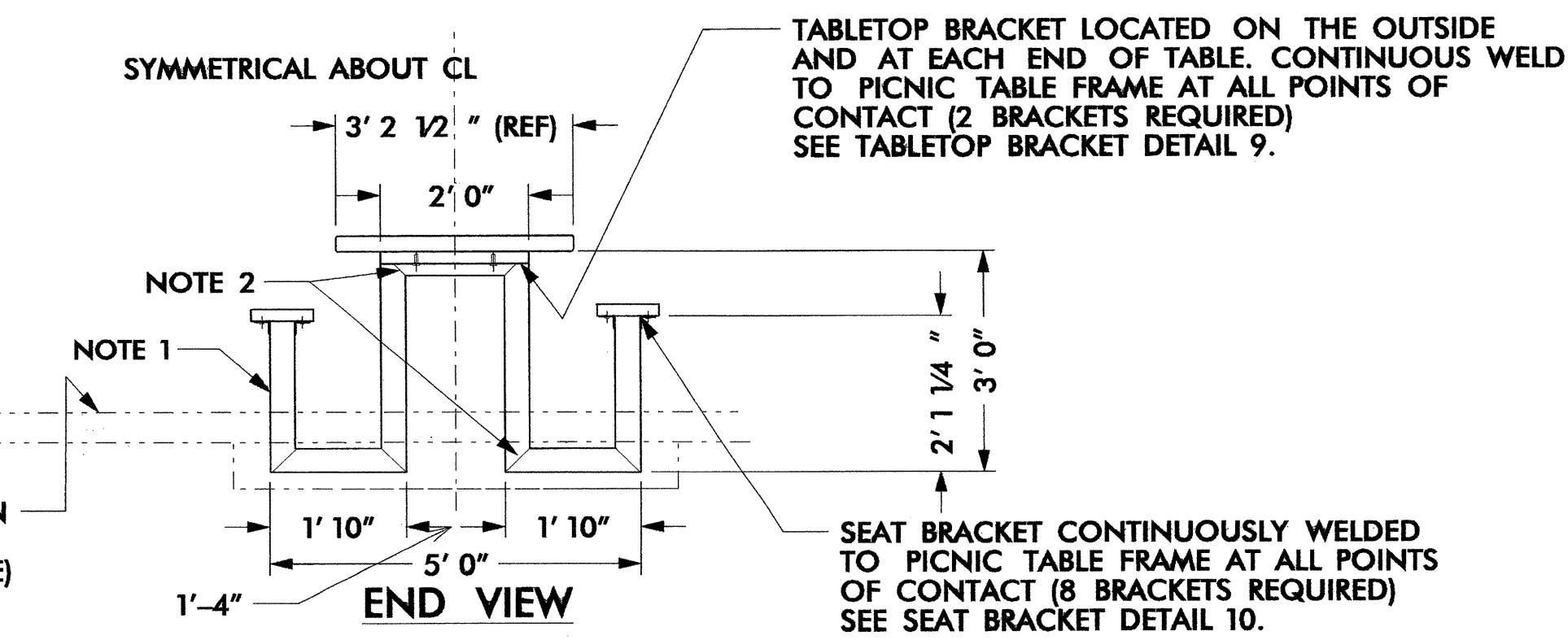


**9 TABLETOP BRACKET - 2 REQ.**  
NO SCALE

NOTE: GRIND ALL METAL EDGES SMOOTH (TYP ALL STEEL ANGLES).

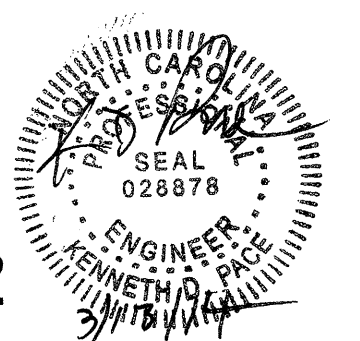


**10 SEAT BRACKET - 8 REQ.**  
NO SCALE



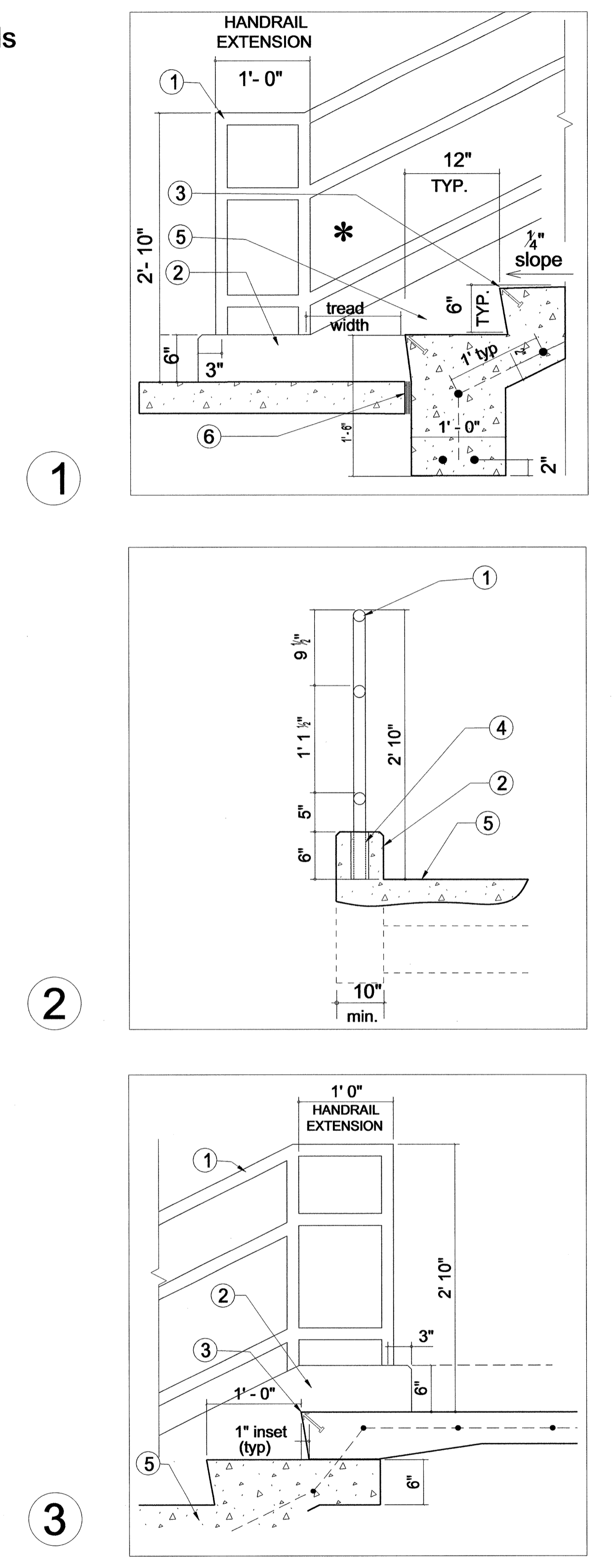
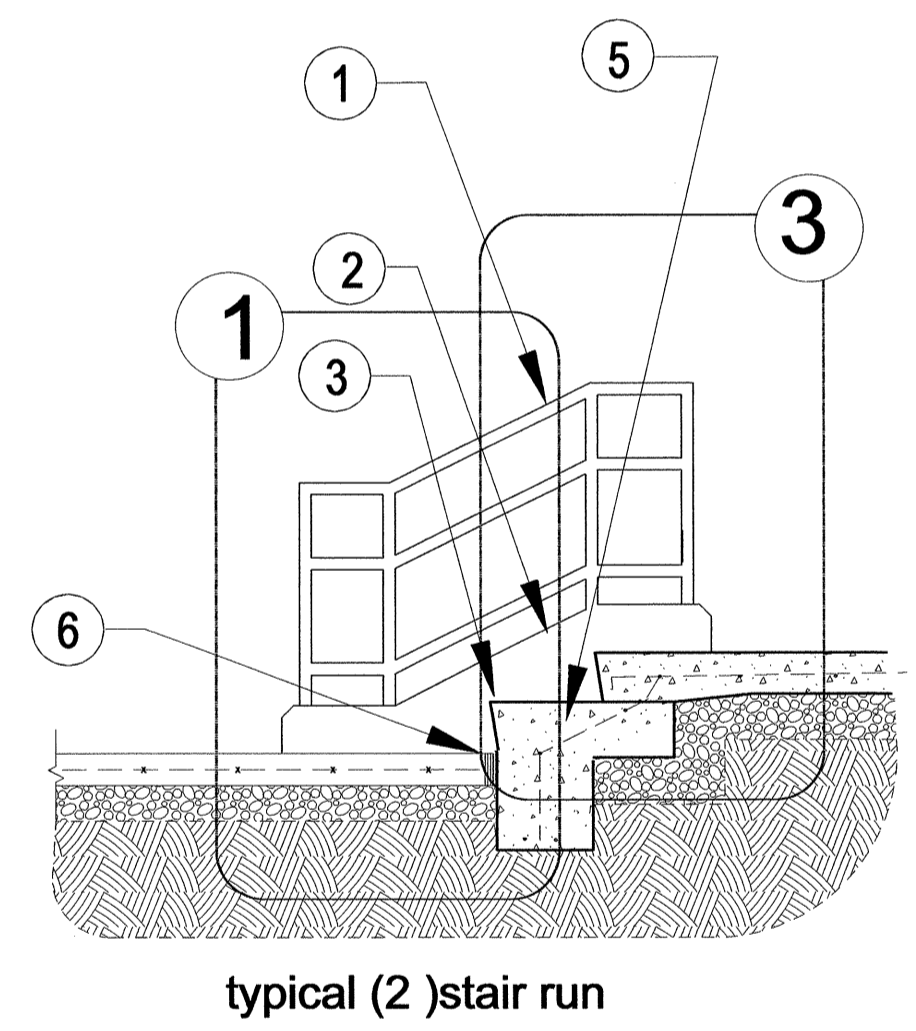
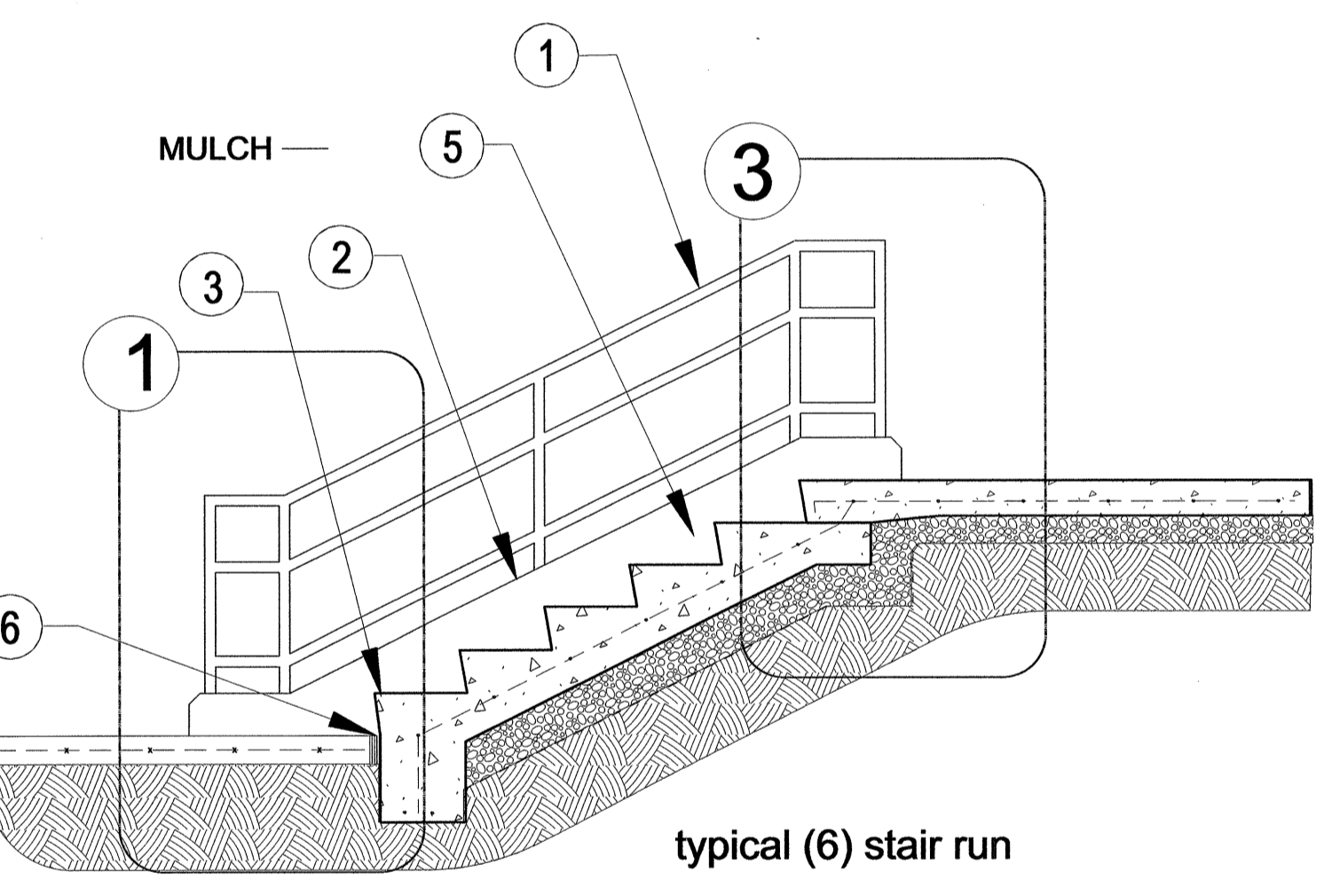
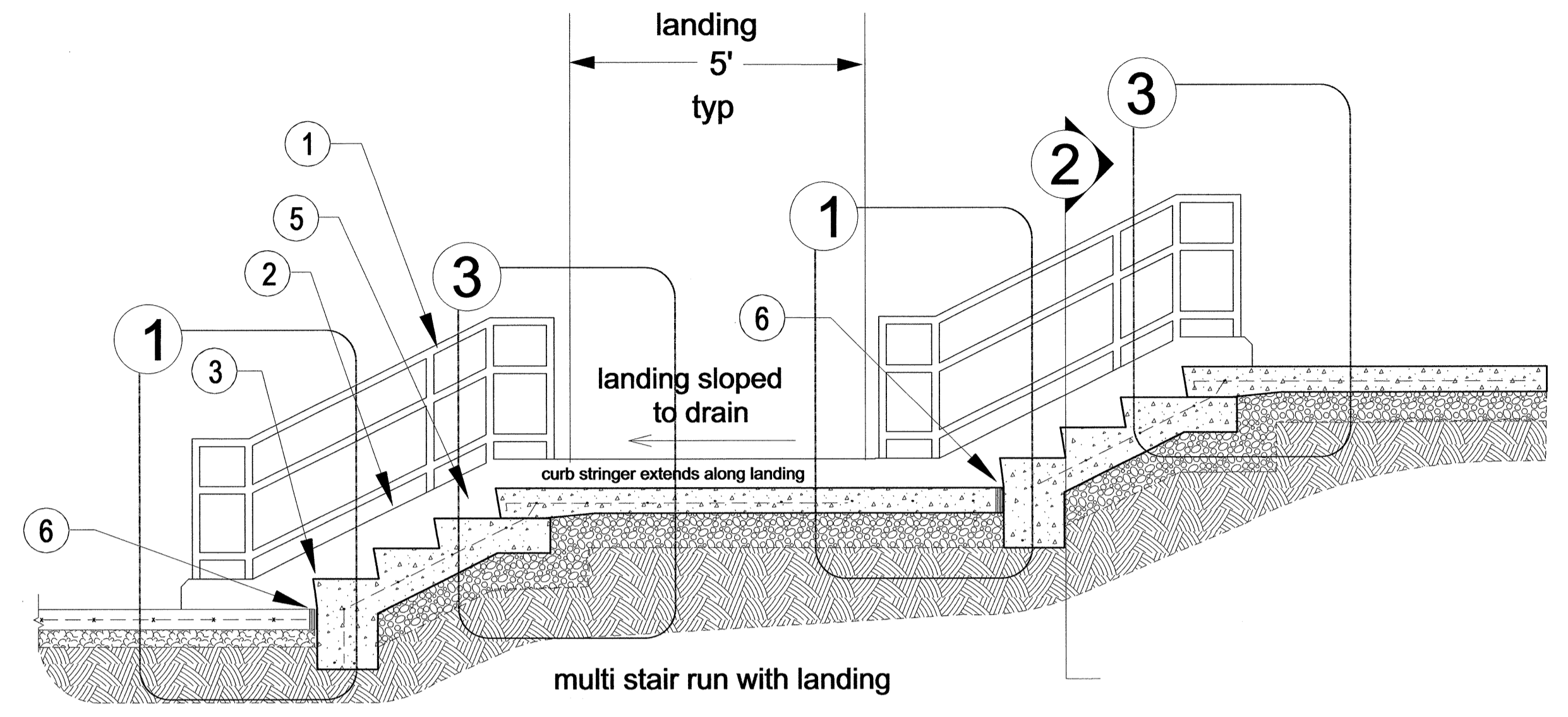
SEAT BRACKET CONTINUOUSLY WELDED TO PICNIC TABLE FRAME AT ALL POINTS OF CONTACT (8 BRACKETS REQUIRED) SEE SEAT BRACKET DETAIL 10.

TABLETOP BRACKET LOCATED ON THE OUTSIDE AND AT EACH END OF TABLE. CONTINUOUS WELD TO PICNIC TABLE FRAME AT ALL POINTS OF CONTACT (2 BRACKETS REQUIRED) SEE TABLETOP BRACKET DETAIL 9.



stair details

- UPPER LEVEL ELE. VARIES BY LOCATION  
SEE PLANS
- LANDING ELE. VARIES BY LOCATION  
SEE PLANS
- LOWER LEVEL ELE. VARIES BY LOCATION  
SEE PLANS



- ① HANDRAIL- 1 1/2" Ø aluminum PIPE, TYP.; set in conc stringer.
- ② CONCRETE CURB STRINGER.
- ③ GALVANIZED METAL NOSING, TYP. -EMBED IN CONCRETE and flush with face of stair.
- ④ GUARDRAIL PIPE SLEEVE - 2 1/4" Ø METAL PIPE, TYP.; handrail set within sleeve and held in place with construction epoxy.
- ⑤ (6'-0" TYPICAL) WIDE POURED IN PLACE CONCRETE STAIR WITH REINFORCING AS SHOWN. SEE PLANS TO MATCH ACTUAL DESIGN WIDTH-WHICH VARIES. REINFORCING SHALL BE 1/2" Ø STEEL REBAR 12" O.C. IN BOTH DIRECTIONS. REINFORCING SHALL EXTEND INTO STRINGERS.
- REINFORCING, NOSING AND OTHER MATERIALS INCIDENTAL TO STEP CONSTRUCTION, EXCEPT HANDRAIL, SHALL BE INCLUDED IN THE PER CUBIC YARD PAYMENT AMOUNT.
- step actual riser dimension is 5 3/4" with 1/4" slope from back to front of tread.
- ⑥ 1/2" expansion joint

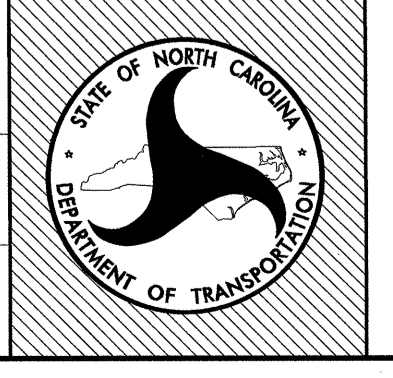
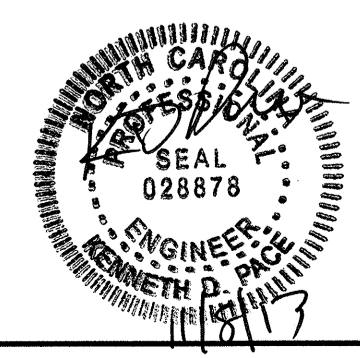
notes:

A. HANDRAIL ASSEMBLY TO BE FINISHED WITH KYNAR 500 per engineer's approval.

STAIRS MAY VARY IN NUMBER OF

B. RISERS. SEE PLANS FOR LOCATION AND DESCRIPTION.

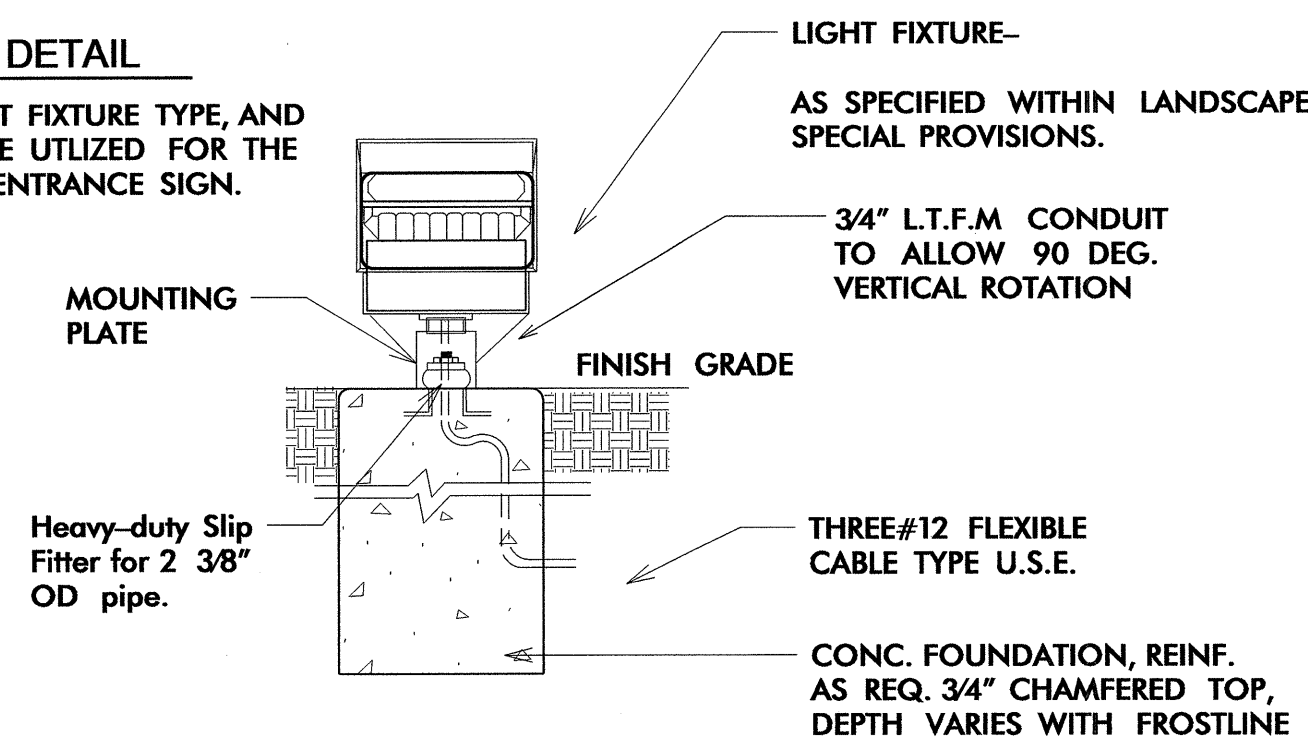
steps and landing(s) sloped 1/4 " per ft to C. drain.





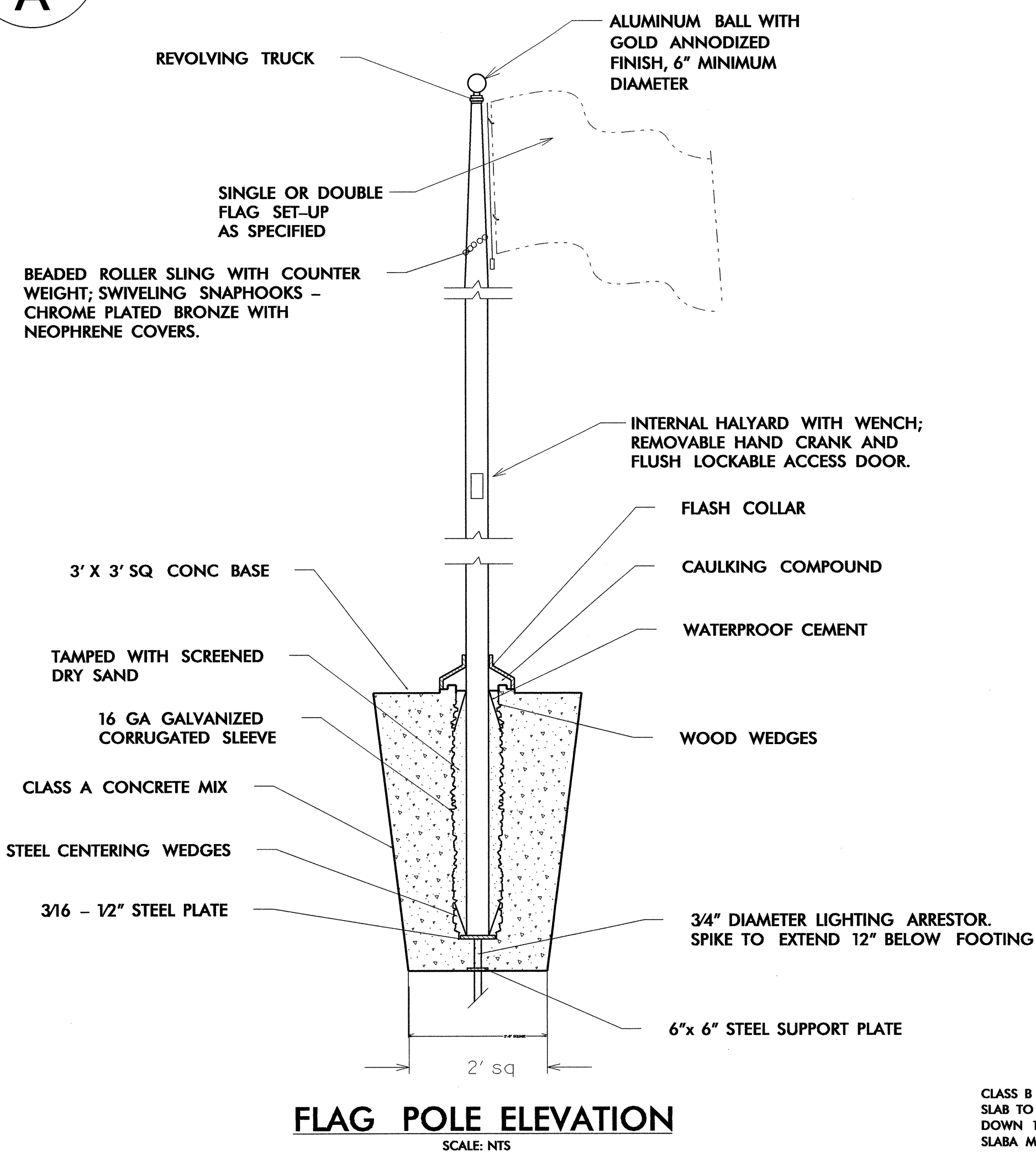
**LIGHTING DETAIL**

NOTE: ENSURE LIGHT FIXTURE TYPE, AND CONSTRUCTION ARE UTILIZED FOR THE FLAG POLES AND ENTRANCE SIGN.



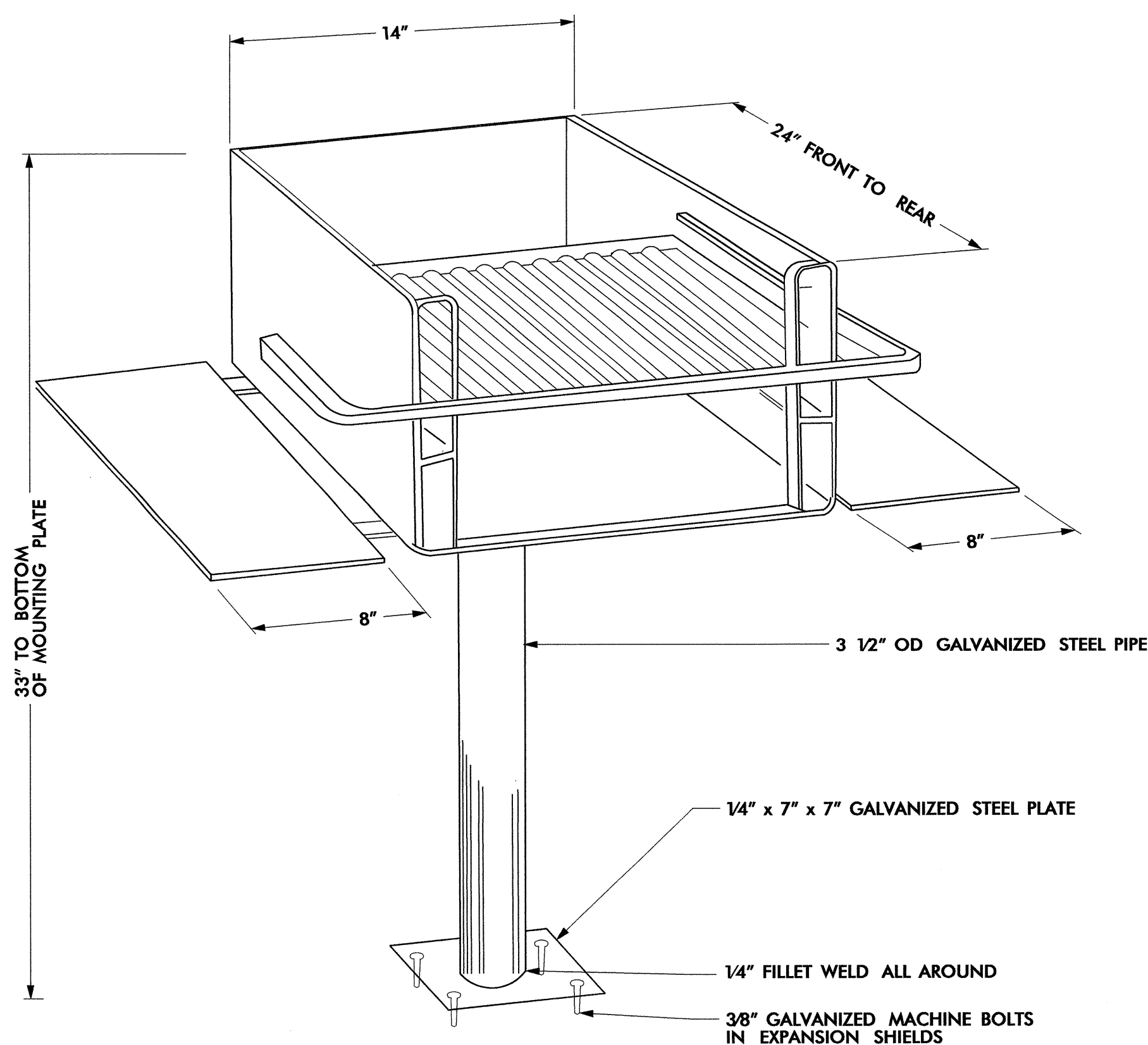
**LD8 LED Lighting Detail-TYPICAL**

**A** No to Scale

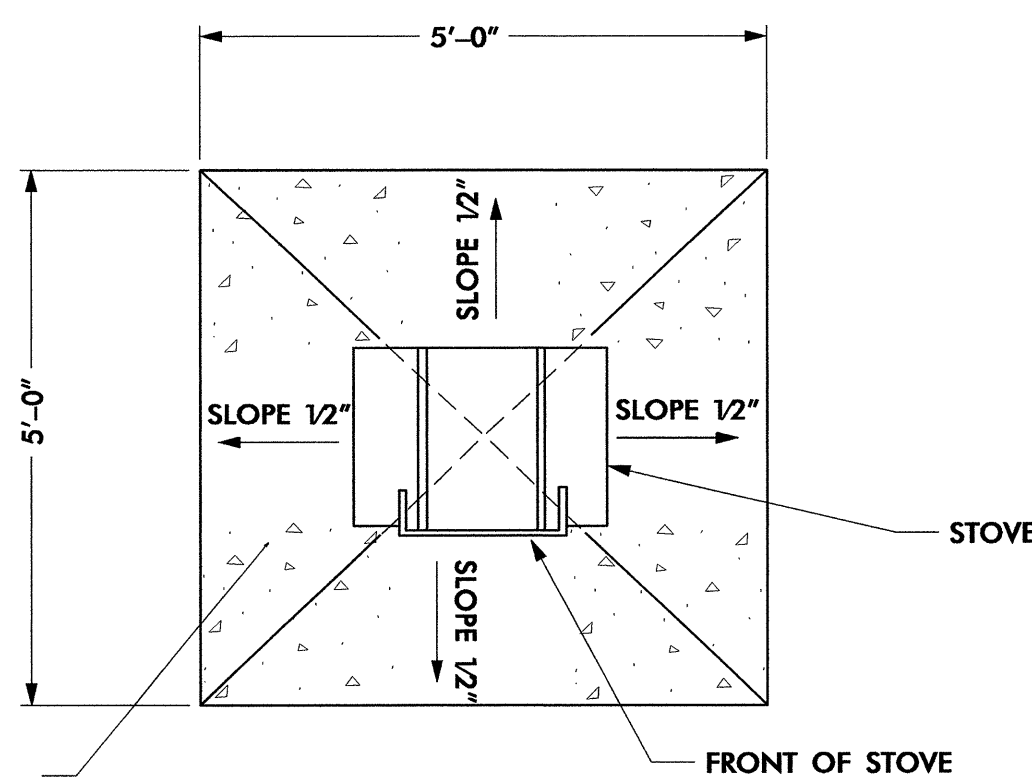


**FLAG POLE ELEVATION**

SCALE: NTS



**PERSPECTIVE VIEW**



**PLAN VIEW**

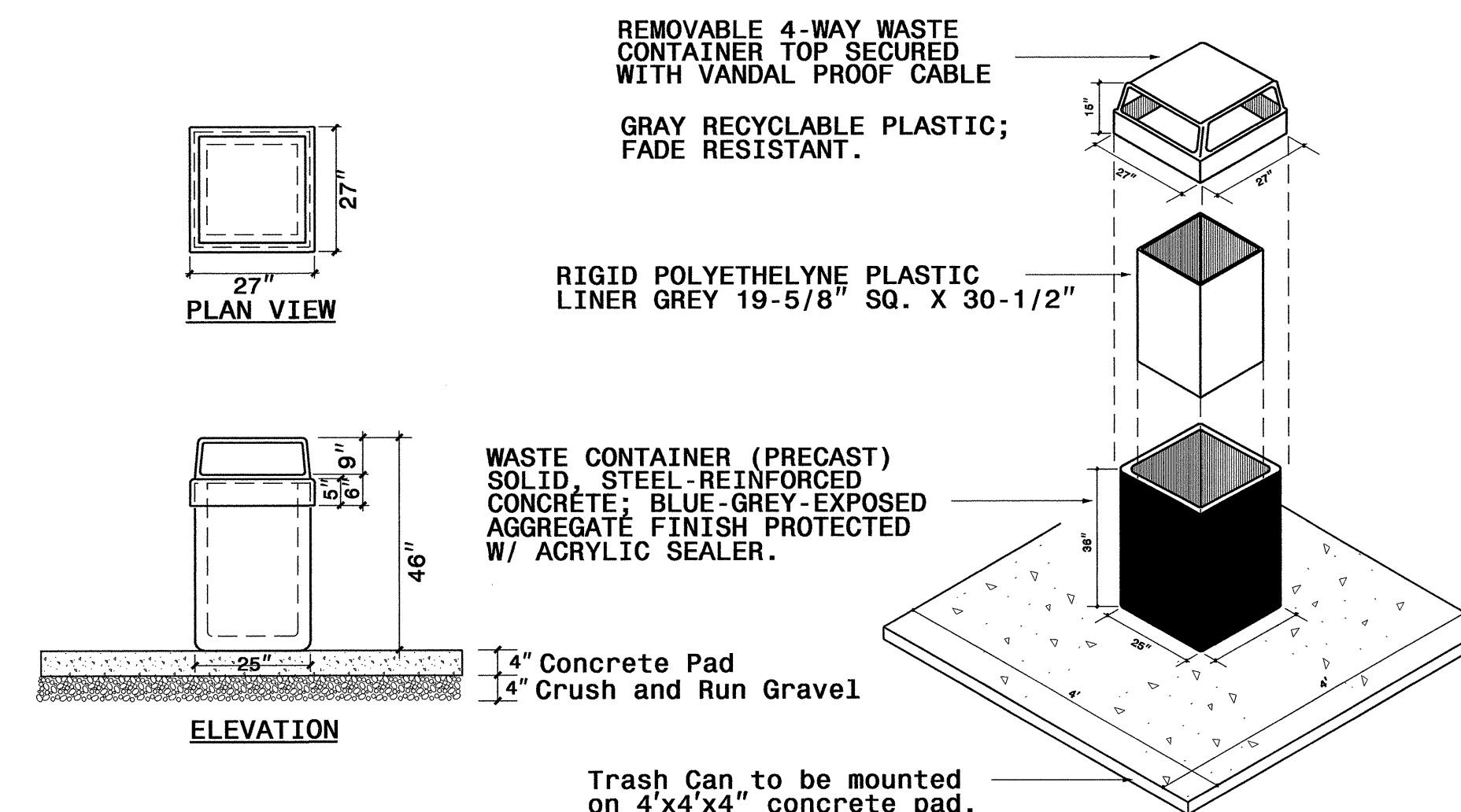
SCALE: NTS

**NOTES:**

- 1) PARK STOVE TO CONSIST OF A FABRICATED STEEL UNIT WITH GRILL COOKING AREAS. SIDE PLATES FOR HOLDING UTENSILS, SMOKESTACKS, AND MOUNTED ON A STEEL PIPE. THE GRILLING SECTION TO CONSIST OF BARS WELDED 1/2" APART, NON-MOVABLE WITH STAY-COOL HANDLE FOR RAISING AND LOWERING.
- 2) CONTRACTOR TO VERIFY SITE CONDITIONS AND GRADES PRIOR TO CONSTRUCTION, AND TO NOTIFY ENGINEER OF ANY SIGNIFICANT DISCREPANCIES.
- 3) THE STOVE TO BE APPROXIMATELY 8 1/2" IN HEIGHT, 14" IN WIDTH, 24" IN LENGTH WITH SMOKE STACK (3" WIDE x 6" HIGH) AND TO BE EQUIPPED WITH STEEL SIDE PLATES (8" x 24"). THE COOKING/ GRILLING AREA IS APPROXIMATELY 294 SQUARE INCHES. THE ASSEMBLY TO BE DESIGNED FOR BURNING EITHER WOOD OR CHARCOAL. IT MUST BE MADE TO SWIVEL 360 DEGREES AND CONTAIN A CONCEALED LOCKING DEVICE FOR PREVENTION OF VANDELISM.
- 4) THE PARK STOVE TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THIS DRAWING.
- 5) FINISH: HIGH HEAT RESISTANT ALUMINUM PAINT.

EXACT LOCATION OF PARK STOVES TO BE DETERMINED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

**PRE-CAST EXPOSED AGGREGATE - WASTE CONTAINER**



Trash Can to be mounted on 4'x4'x4" concrete pad.

**LD8 Flagpole Detail-TYPICAL**

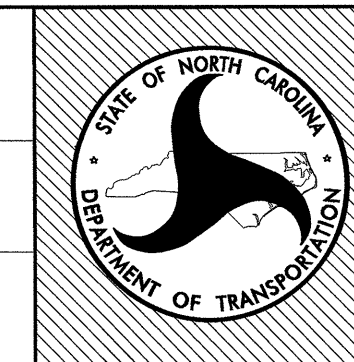
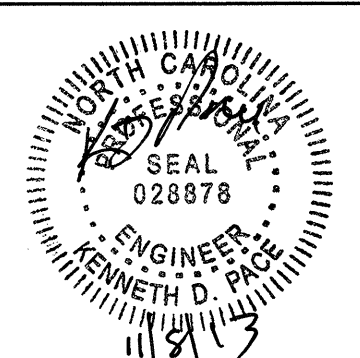
**B** No to Scale

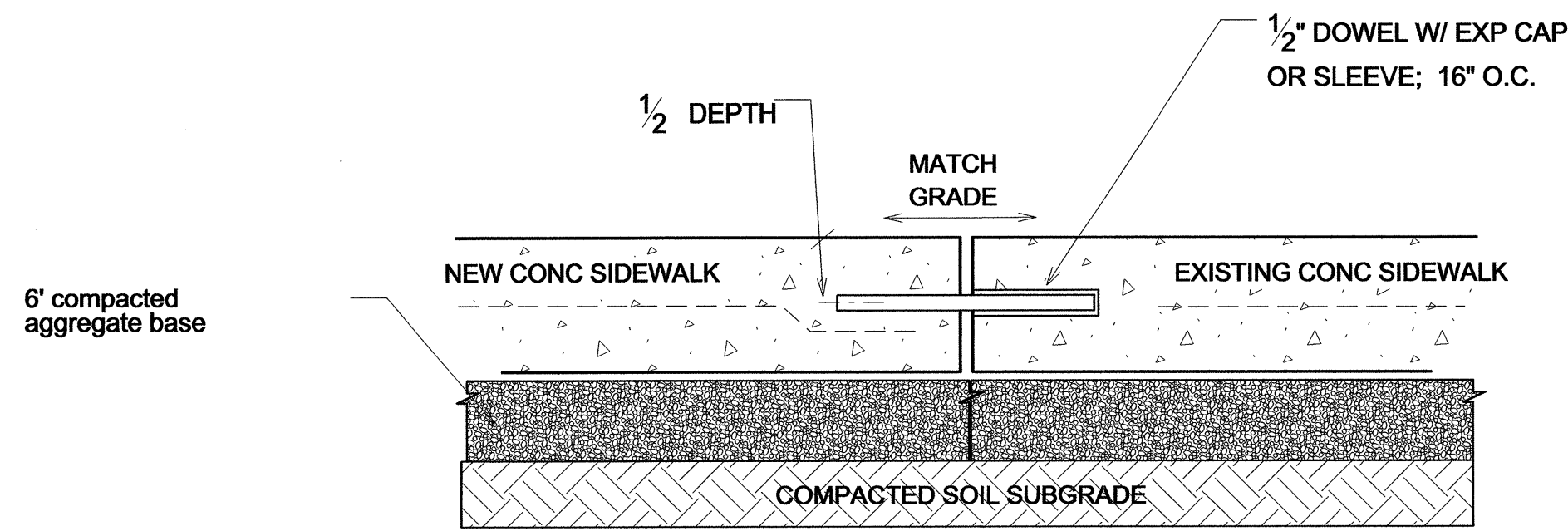
**LD8 Park Stove Detail-TYPICAL**

**C** No to Scale

**LD8 Exposed Aggregate Waste Container-TYPICAL**

**C** No to Scale

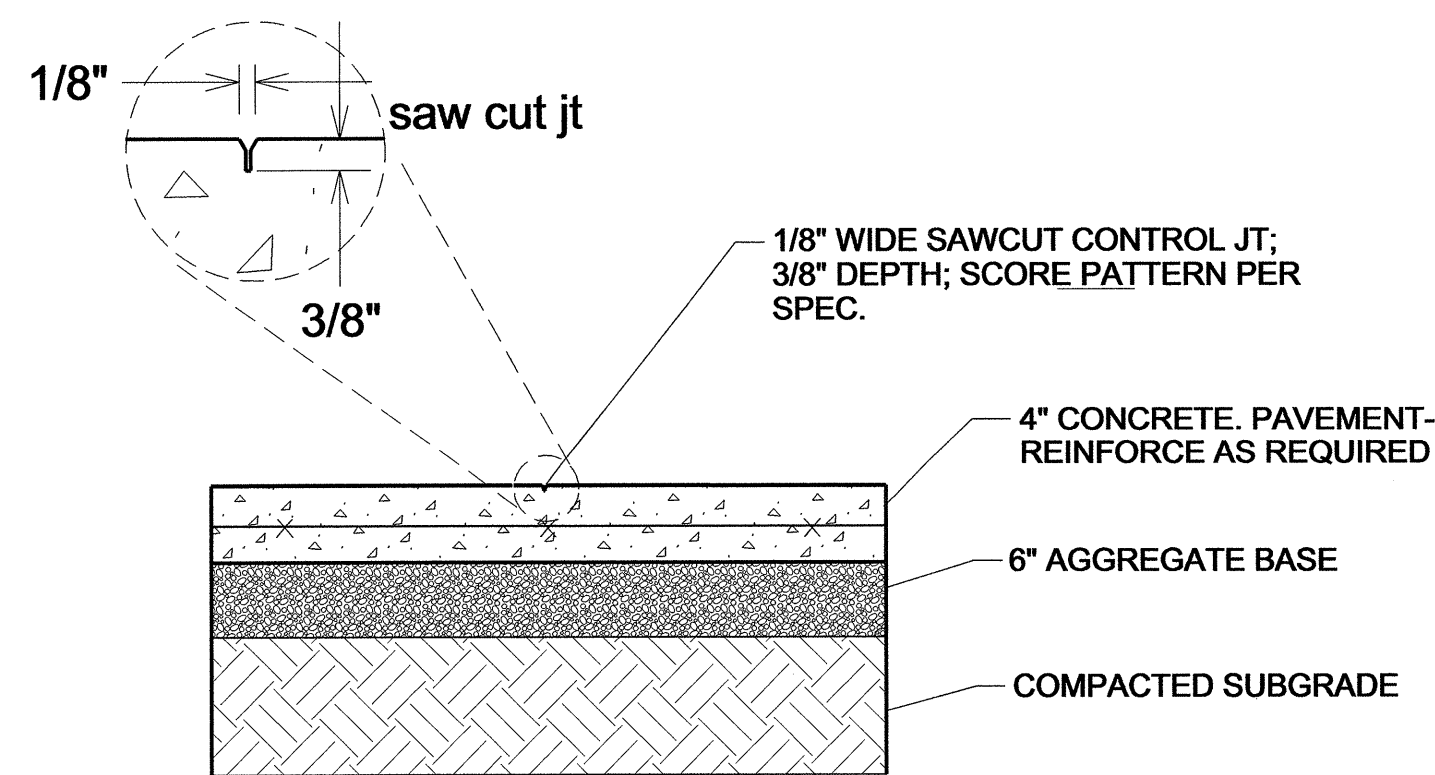




**matching new conc sidewalk to existing**

FOR ALL LOCATIONS WHERE EXISTING SIDEWALK ADJOINS NEW CONC - CONSULT ENGINEER -

nts

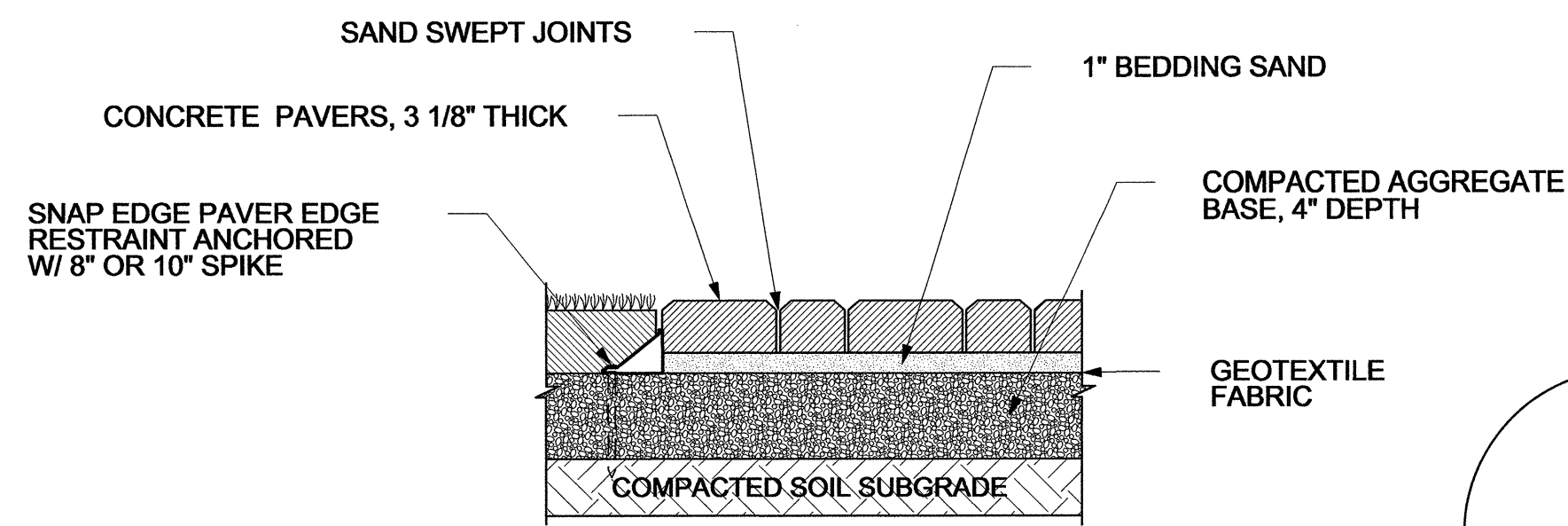


**CONCRETE SIDEWALK - CONTROL JOINT**

nts

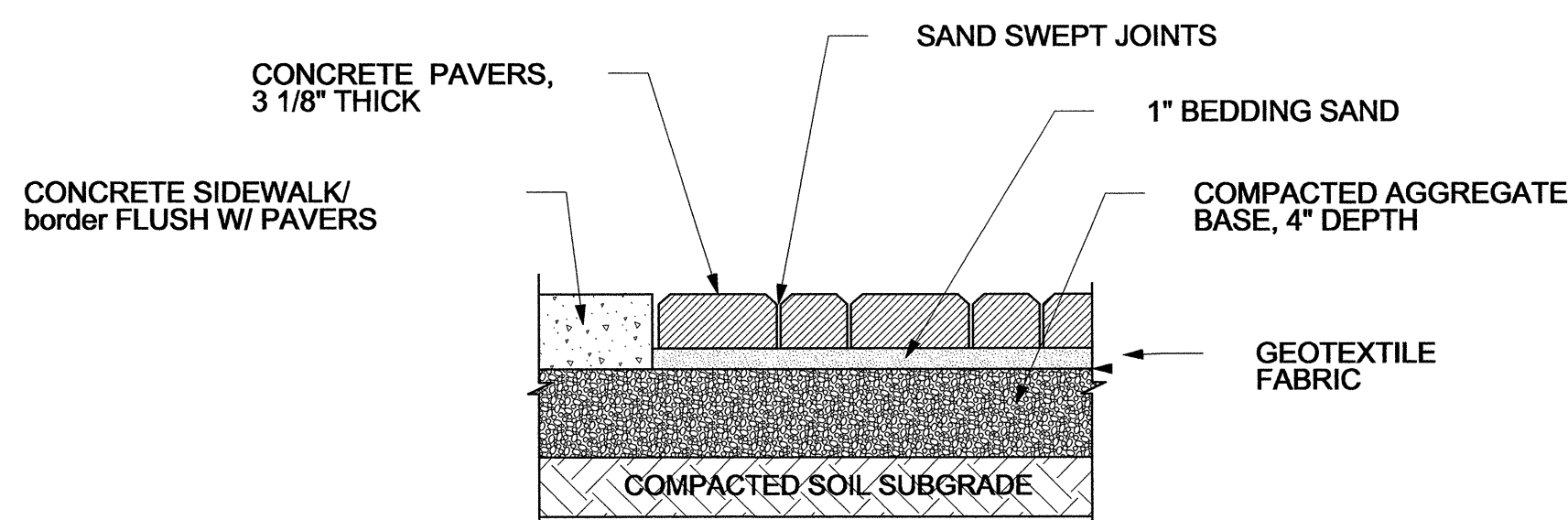
**GENERAL NOTES:**

- 1 STANDARD 4" THICK CONCRETE SIDEWALK to be installed as noted on plans; CONTROL JOINT EVERY 5' (OR same dimension as sidewalk width) AND EXPANSION JOINT EVERY 30' (and where the sidewalk adjoins another hard surface).
- 2 CONCRETE PAVER border AS SHOWN on plans:  
- 9" CAST IN PLACE curb or  
- metal restraint as spec'd.
- 3 paver pattern, color, and dimensions as defined in plans, details, or specifications.
- 4 ALL HARDSCAPE SURFACES SHALL BE GRADED PROPERLY TO DRAIN TO DESIGNATED LANDSCAPE AREAS OR DROP INLETS.



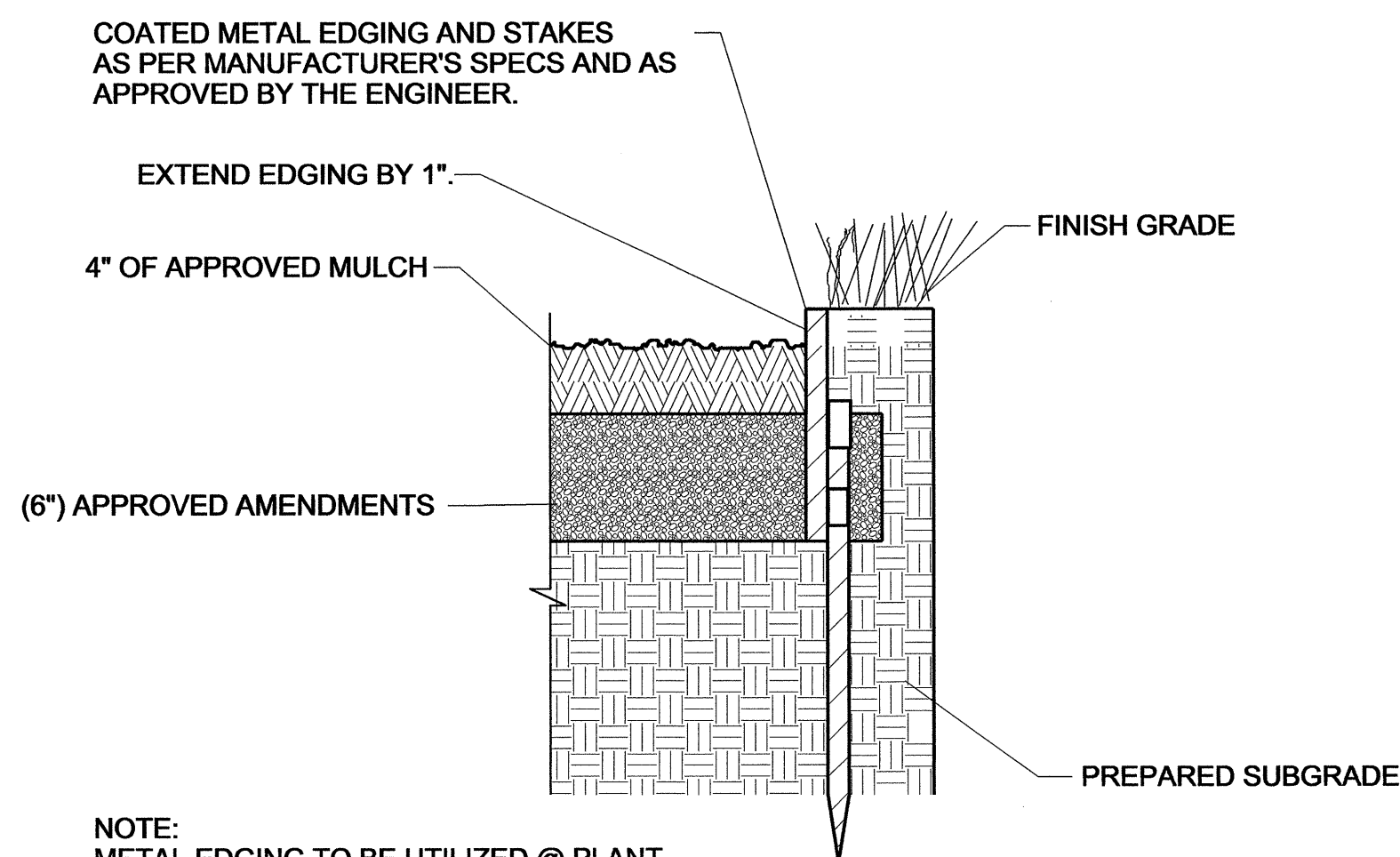
**conc paver detail a**

nts



**conc paver detail b**

nts

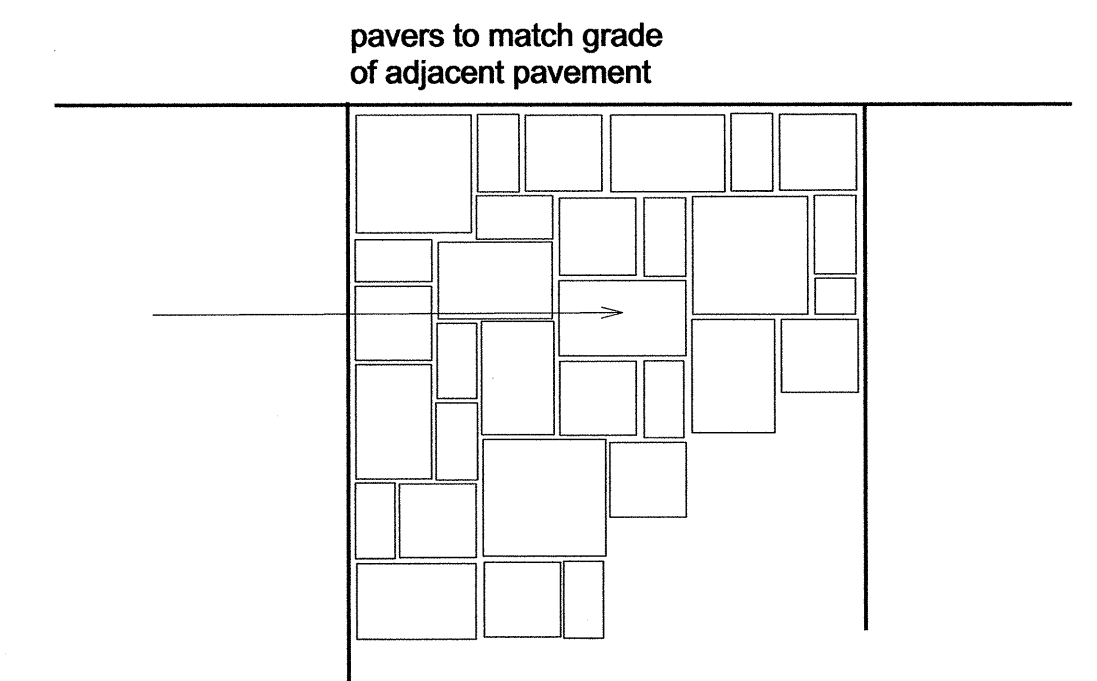


**METAL EDGING**

nts

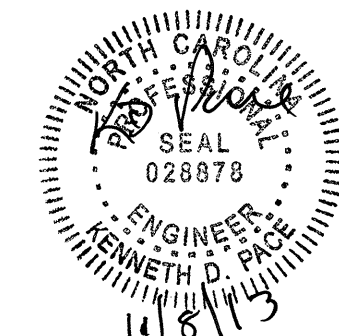
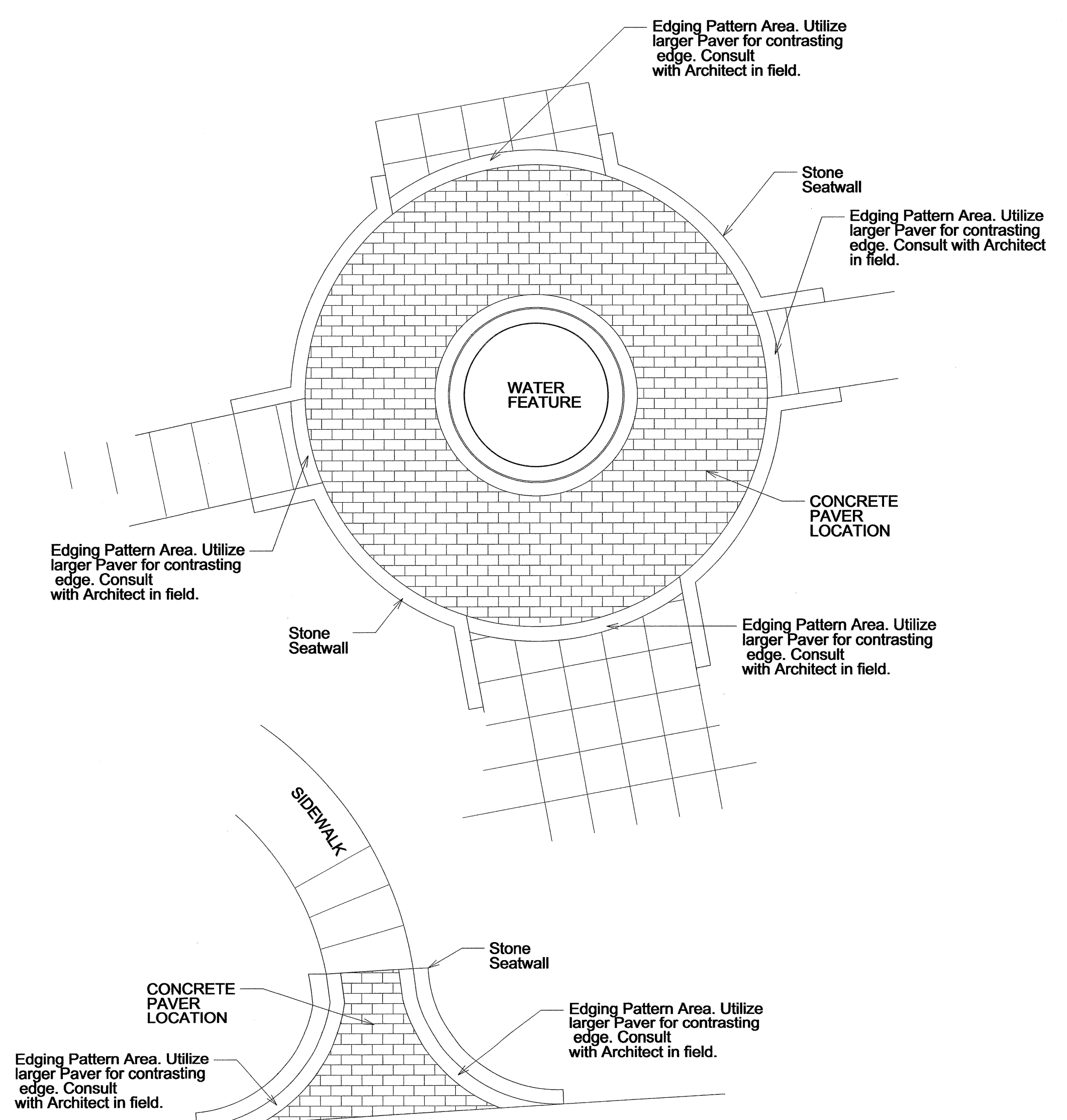
NOTE: METAL EDGING TO BE UTILIZED @ PLANT BED AREAS CONSULT WITH ENGINEER AND DESIGNER TO GET PROPER PLACEMENT IN THE FIELD.

Belgard -mortarless pav't system; 4 pc interlocking pattern.



**typical paver pattern**

nts



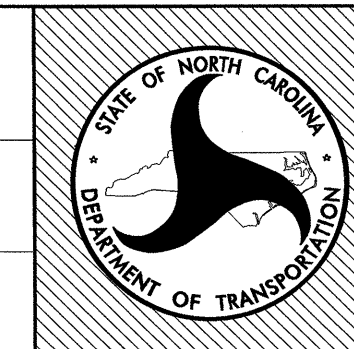
sheet description:

Design & Development Plans  
 Pavement & Edging Details

prel design date:

checked by & date:

final design date:

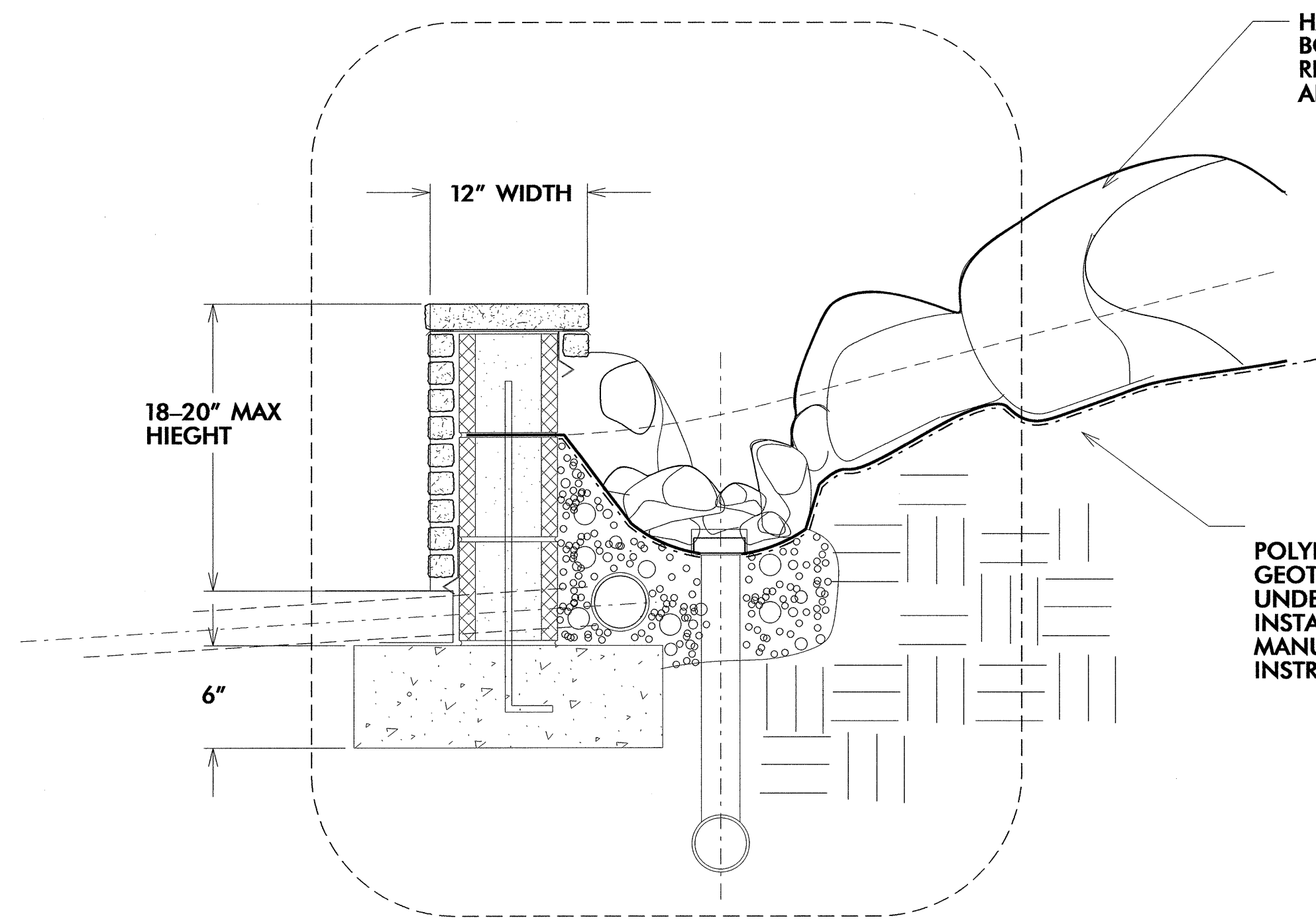


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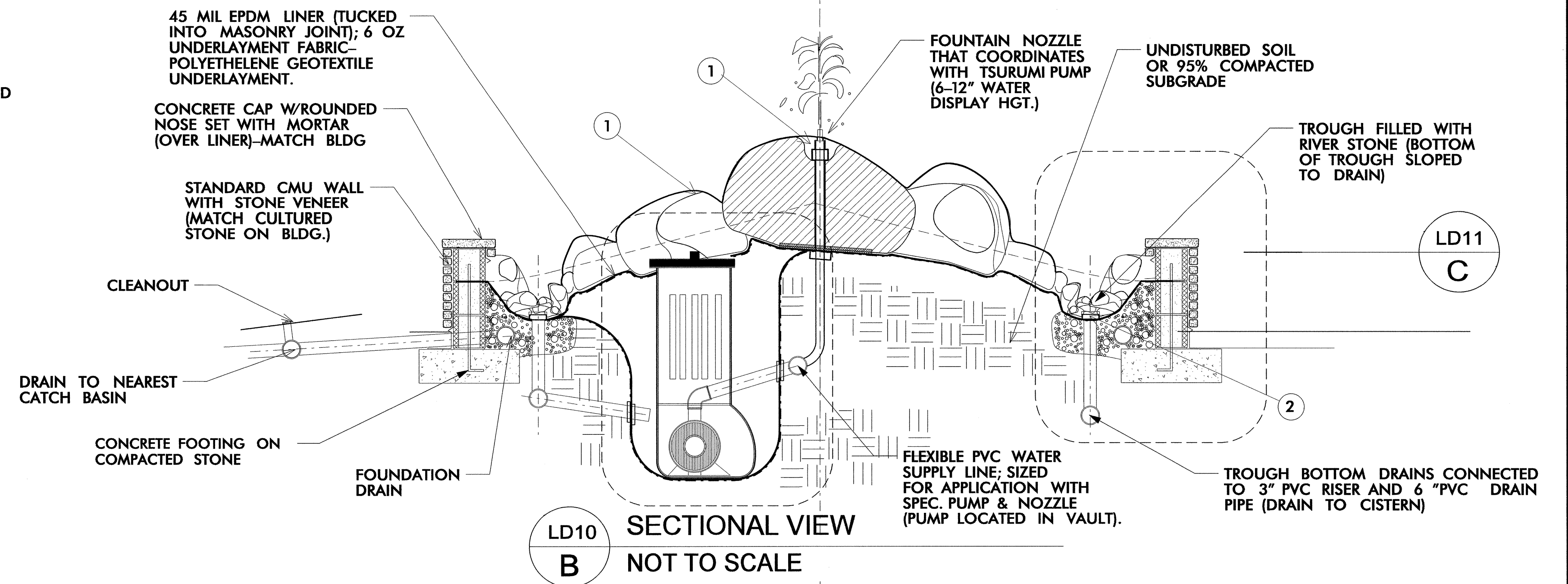
**LD9**

total sheet no.: 30

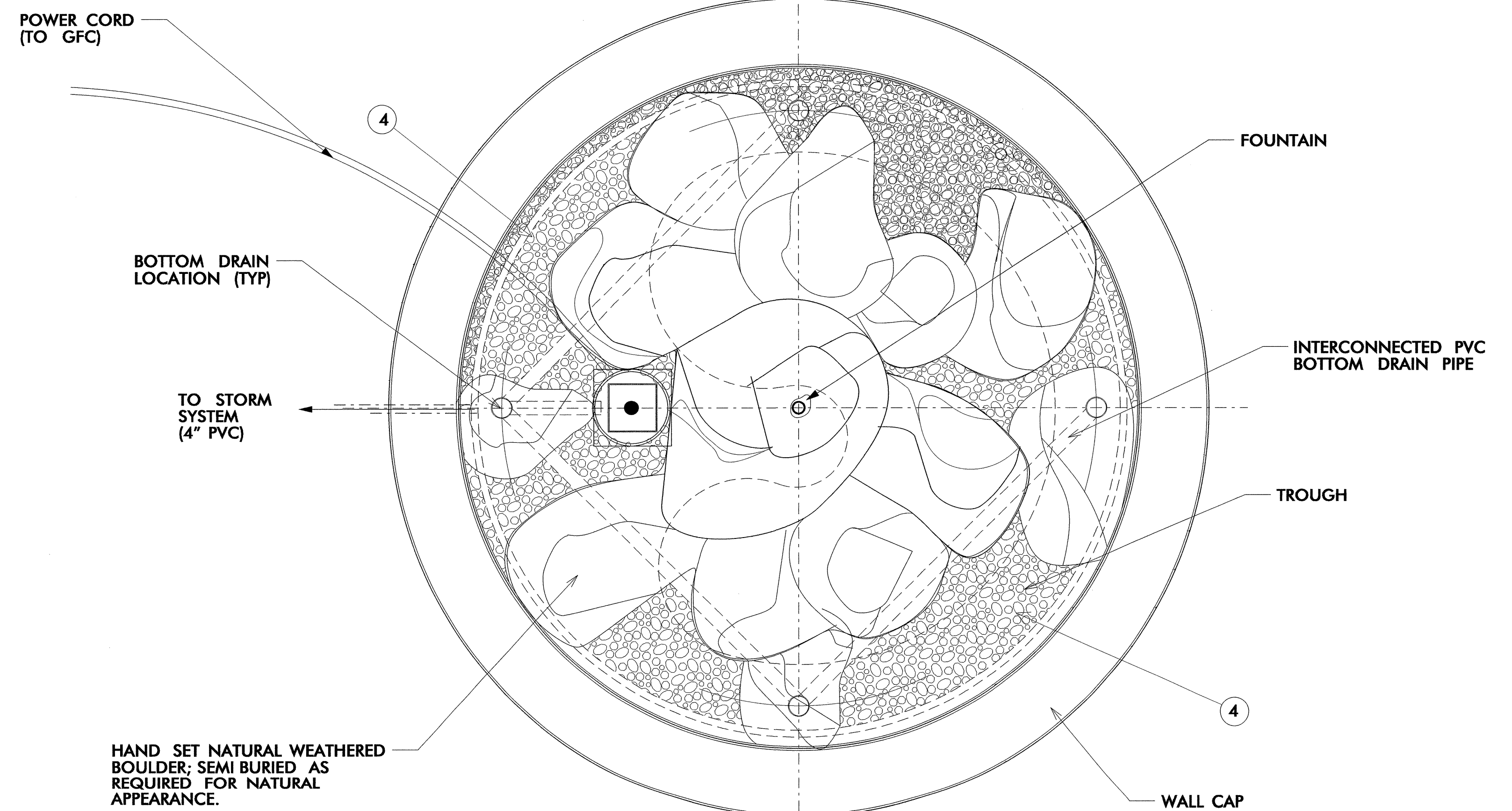




LD10 EXPANDED SECTIONAL VIEW  
C NOT TO SCALE



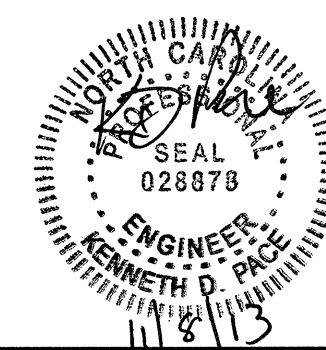
LD10 SECTIONAL VIEW  
B NOT TO SCALE



LD10 PLAN VIEW  
A NOT TO SCALE

**LEGEND NOTES:**

- 1 FROTHY NOZZLE (BY LONG ISLAND FOUNTAIN COMPANY OR SIMILIAR) WATERPROOF BULK HEAD FITTING, WATER SUPPLY PIPE, PUMP SIZE AND ITS ELECTRICAL CONNECTION ALL IN ACCORDANCE WITH MANUFACTURER'S SUGGESTIONS); 24" FIBERGLASS BOWL OR HIGH QUALITY POLYETHYLENE (MANUFACTURED BY LONG ISLAND FOUNTAIN CO. OR SIMILIAR) SET LEVEL ON NOTED BASE, RIM SEALED (W/MARINE GRADE CONSTRUCTION SEALANT) OVER LINER. BOULDER SHALL BE BORED WITH ALLOWANCES FOR FLEXIBLE PIPING AND NOZZLE. APPLY MARINE GRADE CONSTRUCTION SEALANT BETWEEN BOULDER AND NOZZLE AREAS FOR WATER TIGHT FITTING.
- 2 3" EASY PRO BOTTOM DRAIN; ROTO MOLDED; INCLUDES BULK HEAD FITTING, VALVE AND PIPE FITTING
- 3 HAND SET NATURAL WEATHERED BOULDER; SEMI BURIED AS REQUIRED FOR NATURAL APPEARANCE. BOULDER SIZES RANGE FROM (2-5 FT.) IN WIDTH X LENGTH, AND DEPTH (1-3 FT.) MAY BE ADJUSTED IN FIELD TO ACCOMODATE LAYOUT. ENSURE POSTIVE DRAINAGE IS MAINTAINED FROM THE FOUNTAIN TO THE TROUGH.
- 4 4-6" DEPTH SMOOTH RIVER ROCK (2-6" DIA.)



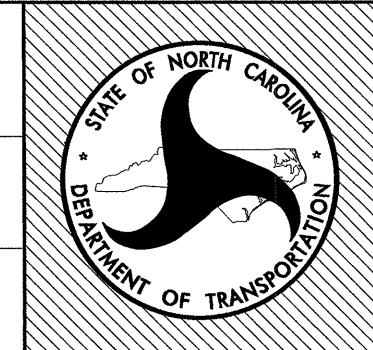
sheet description:

Design & Development Plans  
Water Feature

prel design date:

checked by & date:

final design date:

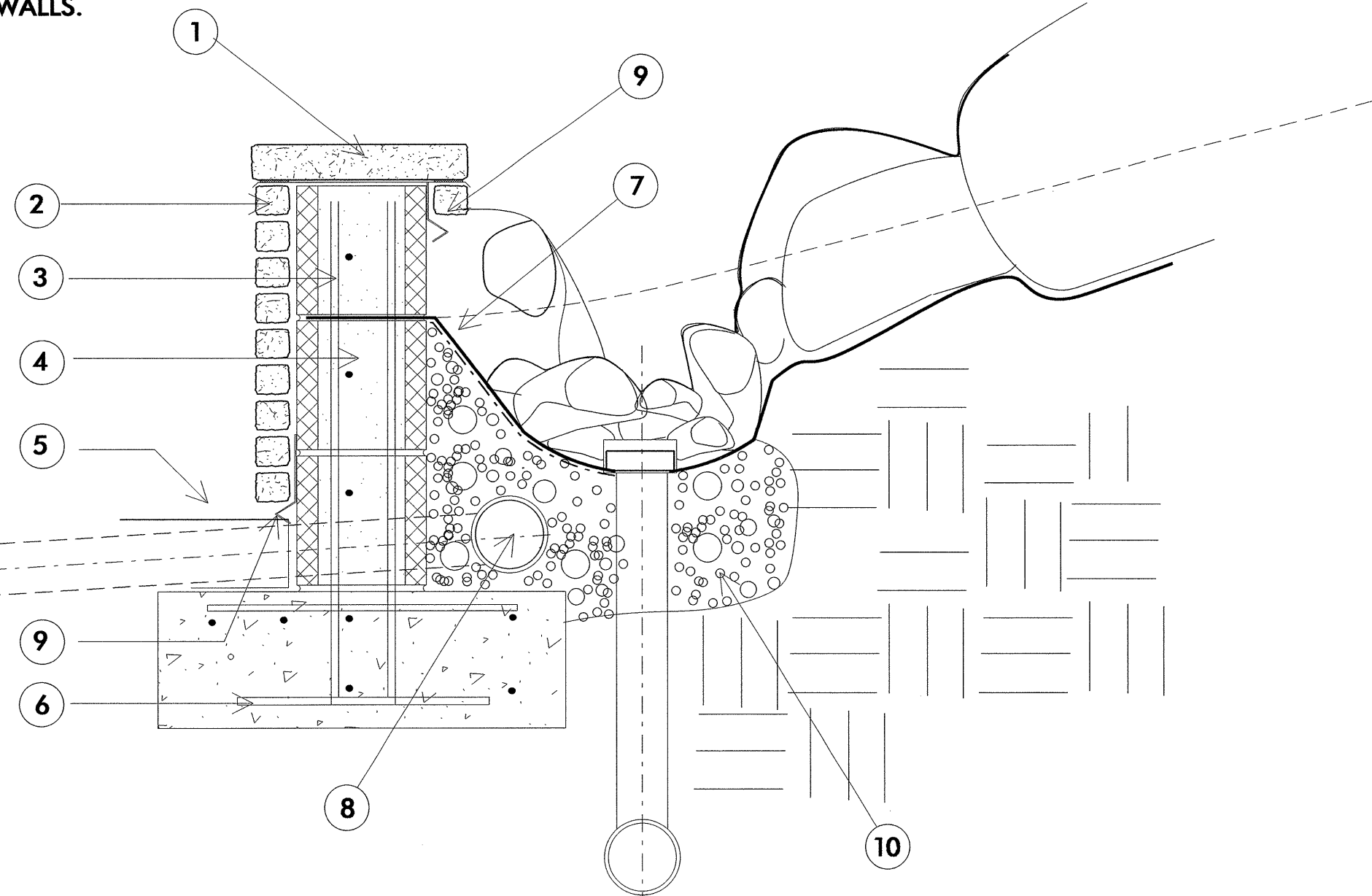


sheet no.:

**LD10**

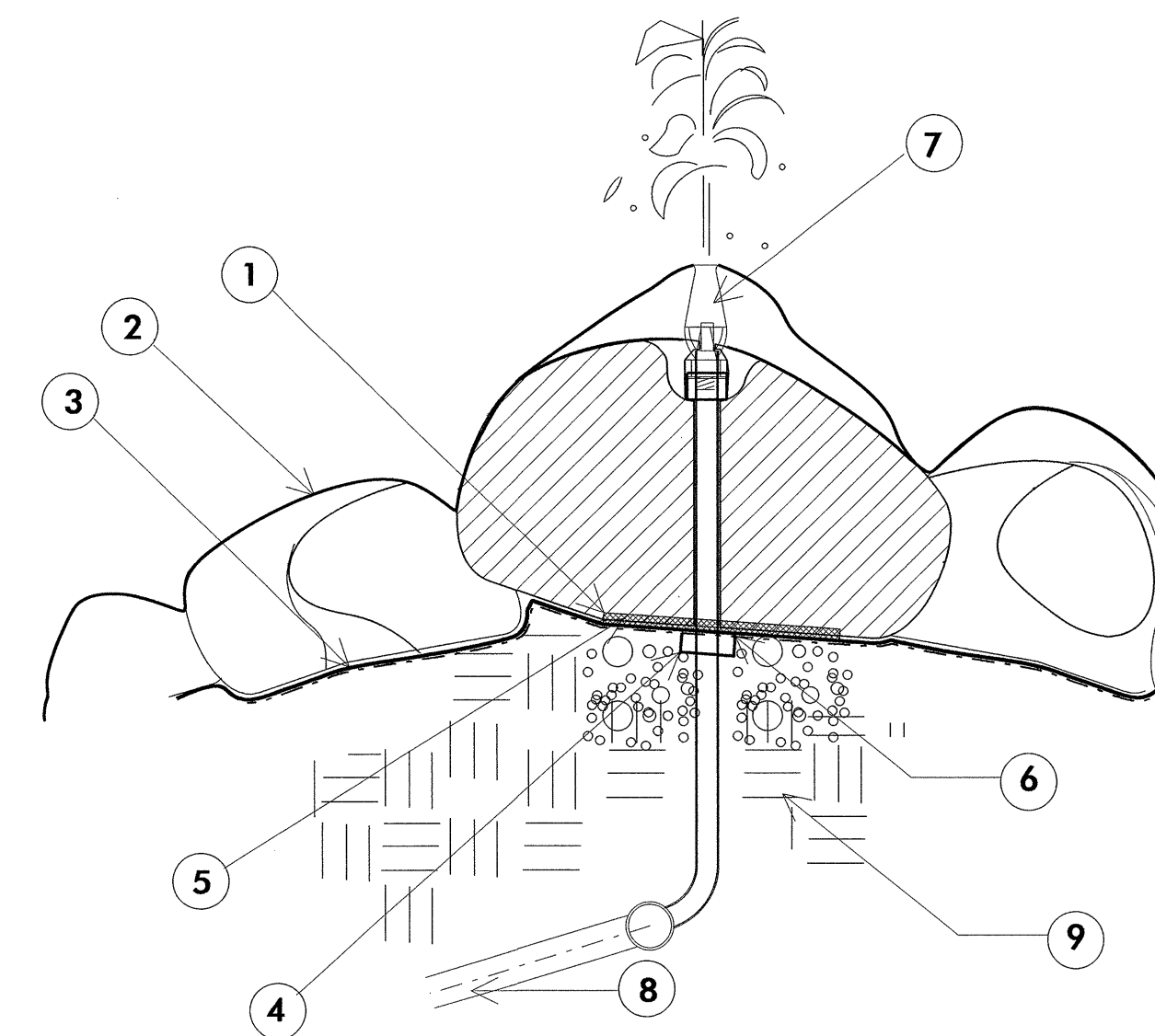
total sheet no. : 30

CONSULT STONE SEATWALL  
DETAILS FOR COMPLETE  
REINFORCEMENT DETAILS.  
STONE VENEER TO MATCH  
BUILDING. CAPPING TO MATCH  
STONE SEATWALLS.



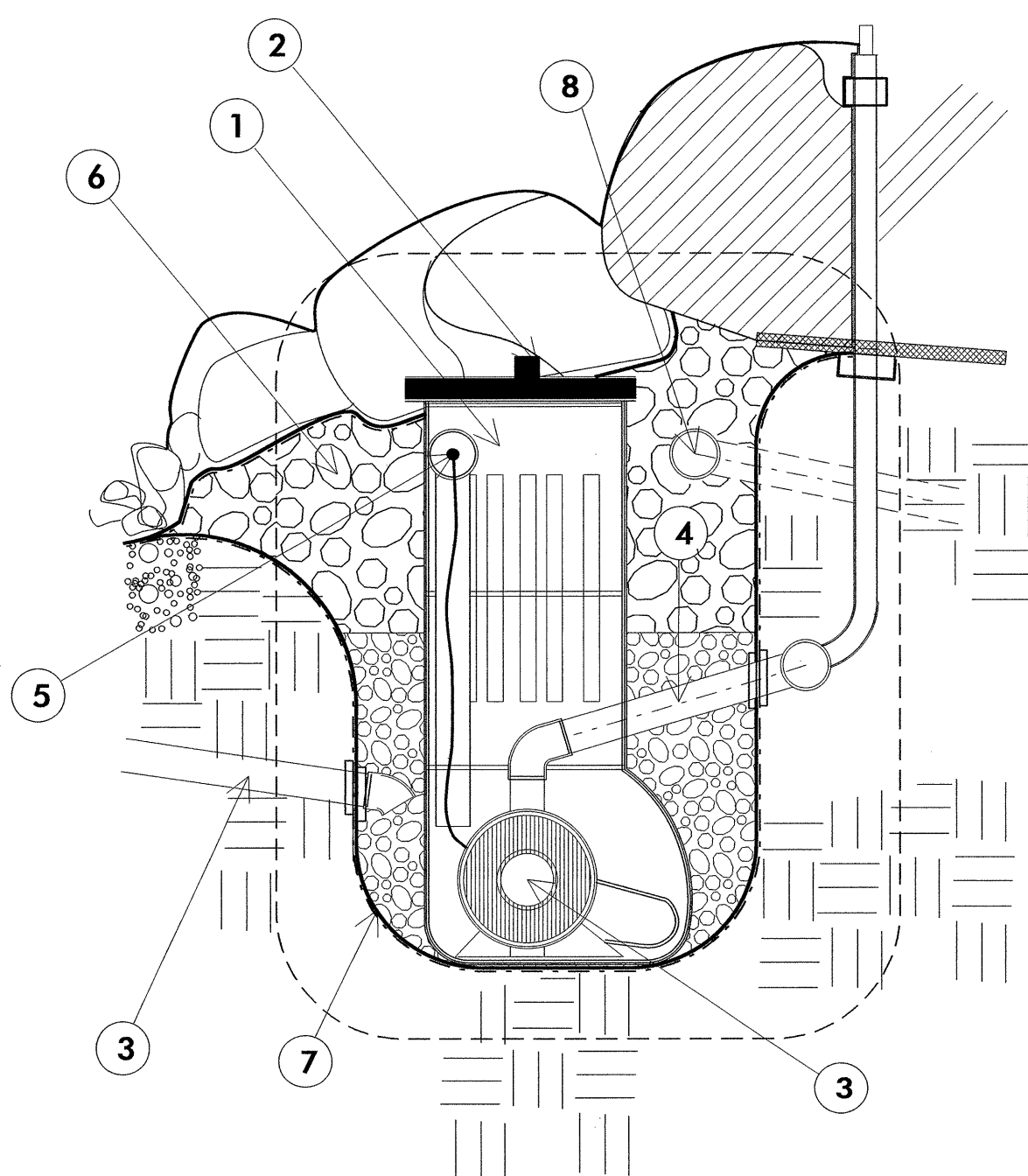
**LD11 B** WATER FEATURE STONE WALL  
NOT TO SCALE

- 1 12" REIN. CONC. COPING
- 2 STACKED STONE VENEER-  
DRY STACKED LOOK
- 3 8 X 8 X 18  
AND/OR 4 X 8 X 16  
CONC. MASONRY UNIT
- 4 GALV. MASONRY TIES  
VERT. 16" O.C.
- 5 FINISHED GRADE;  
POS. SLOPE AWAY  
FROM WALL
- 6 6" CONC. FOOTER  
ON COMPACTED  
STONE BASE
- 7 EPDM LINER FOLDED  
INTO MORTAR JT.
- 8 SPEC. DRAINAGE
- 9 AS PER MANUFACTURERS  
SPECS
- 9 CONTINUOUS GRAVEL BED  
ALONG WALL FOR DRAINAGE.



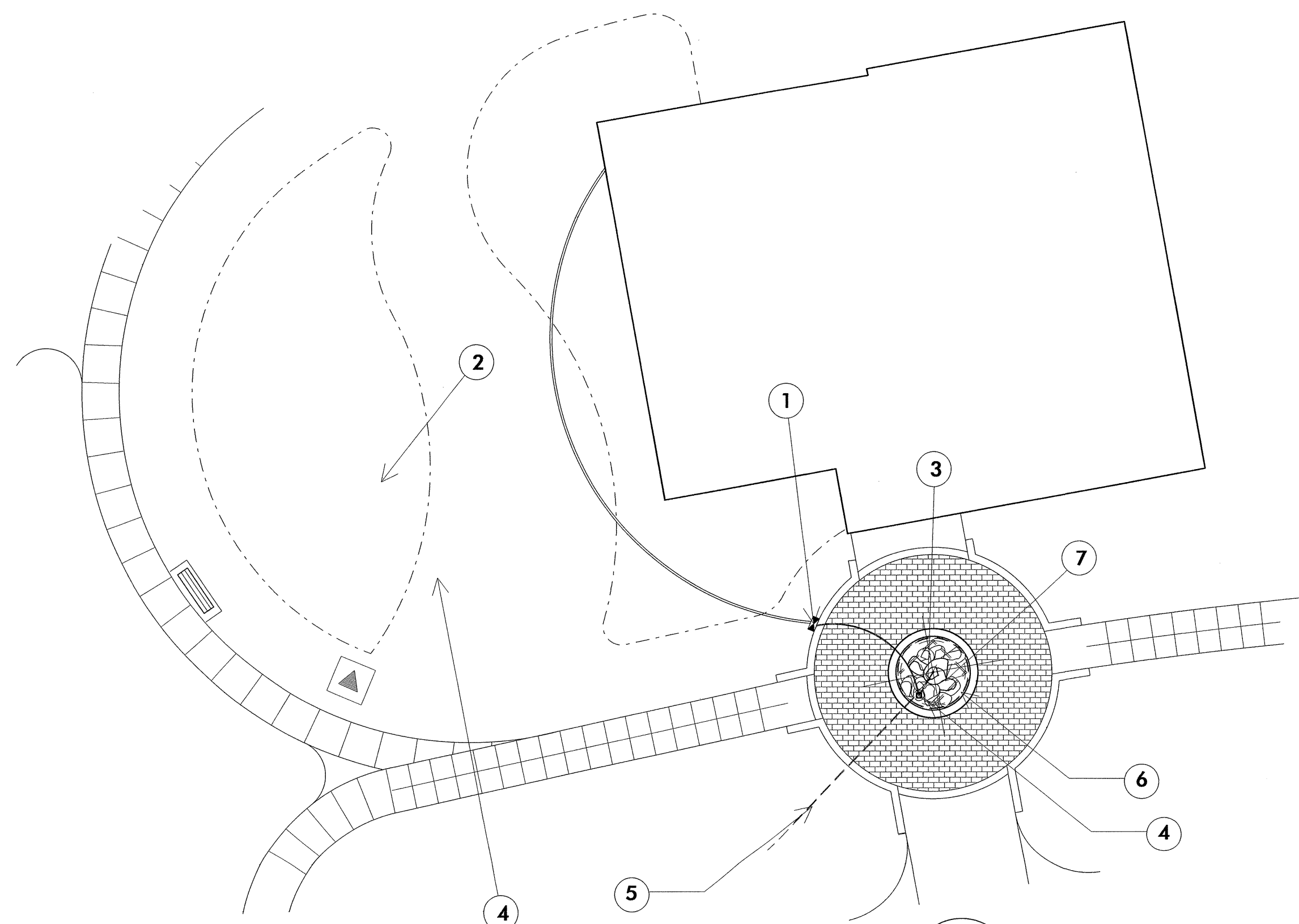
**LD11 A** WATER FEATURE NOZZLE  
NOT TO SCALE

- 1 6 OZ UNDERLAYMENT FABRIC
- 2 HAND SET NATURAL WEATHERED  
BOULDER; SEMI BURIED AS  
REQUIRED FOR NATURAL  
APPEARANCE.
- 3 45 MIL EPDM LINER (TUCKED  
INTO MASONRY JOINT) COVERED  
WITH 6 OZ UNDERLAYMENT  
FABRIC; POLYETHYLENE  
GEOTEXTILE UNDERLAYMENT.
- 4 LEVELING BASE OF STONE  
OR MASONRY FILL
- 5 WATERSTOP FLASHING/FLANGE
- 6 MARINE GRADE CONSTRUCTION  
SEALANT
- 7 GEYSER/FROTHY JET OR NOZZLE  
THAT COORDINATES WITH TSURUMI  
PUMP- (6-12" WATER DISPLAY HGT.)
- 8 FLEXIBLE PVC SUPPLY LINE
- 9 COMPACTED SUBGRADE



**LD11 C** PUMP / FILTER / VAULT DETAIL  
NOT TO SCALE

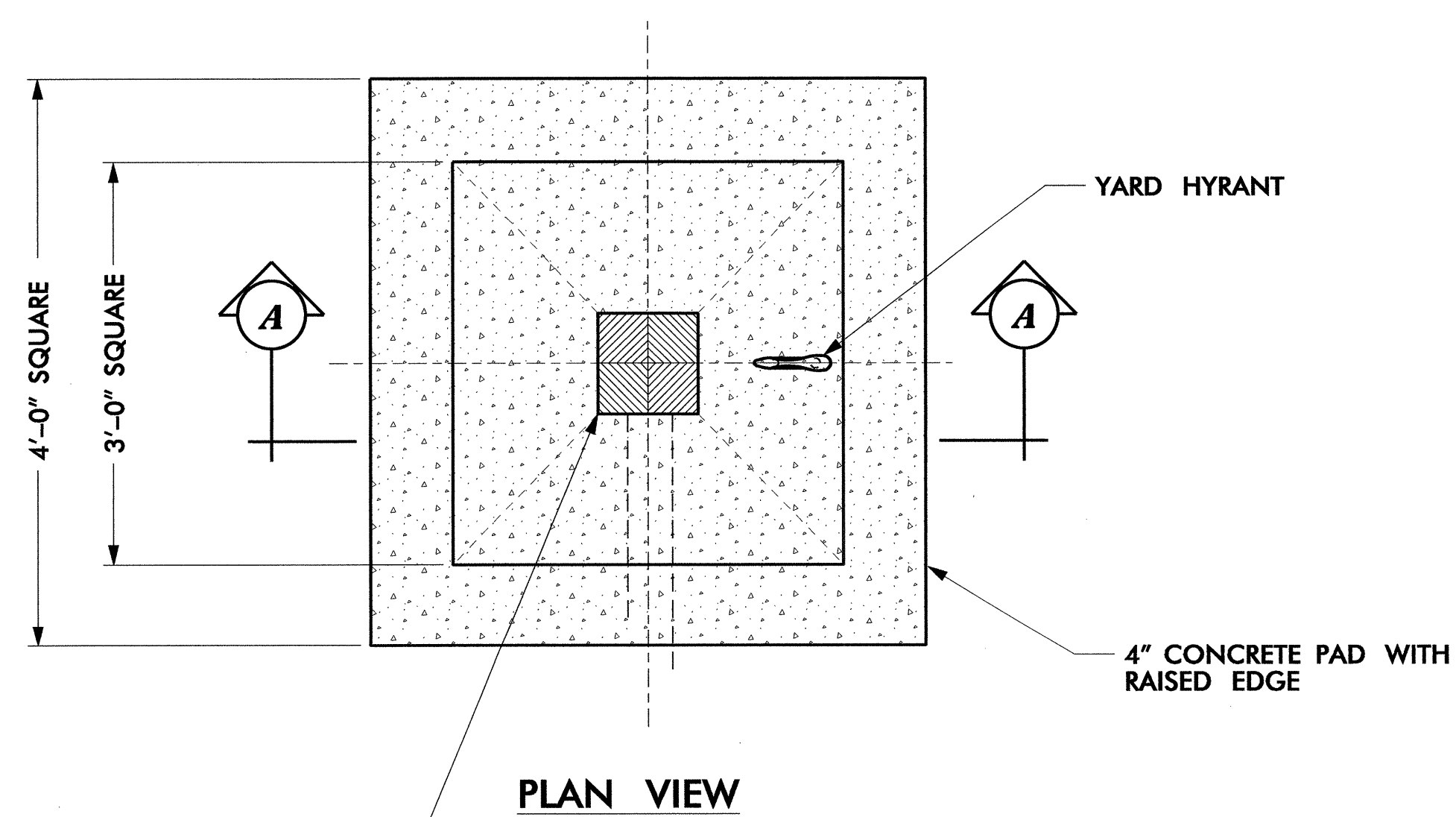
- 1 PUMP VAULT RISER  
(AS NEEDED)
- 2 Sturdy access lid  
below shallow layer  
of stone
- 3 FINISHED GRADE  
SLOPE TO DRAIN  
TO THE VAULT
- 4 2" FLEXIBLE PVC  
(RUNS TO NOZZLE)
- 5 POWER CORD  
(TO GFC)
- 6 Washed Stone  
(River Stone for  
top 8")
- 7 45 MIL EPDM LINER (TUCKED  
INTO MASONRY JOINT) COVERED  
WITH 6 OZ UNDERLAYMENT FABRIC;  
POLYETHYLENE GEOTEXTILE  
UNDERLAYMENT.
- 8 OUTLET PVC PIPE  
TO TRENCH DRAIN  
AND THEN TO  
DRAINAGE SYSTEM
- 9 Polyethylene Pump Vault  
- single molded housing  
- free flow vents
- 9 Submersible Pump  
with low water cut-off  
(min 3500 gpm)  
Cord attached to vault and  
pump for quick accessibility.  
Dimensions of basin and  
elevations of pipes determined  
by final waterfall design;  
minimal water capacity of  
basin area should equal  
waterfall volume x 2.5



**LD12 D** WATER FEATURE PLAN SCHEMATIC  
NOT TO SCALE

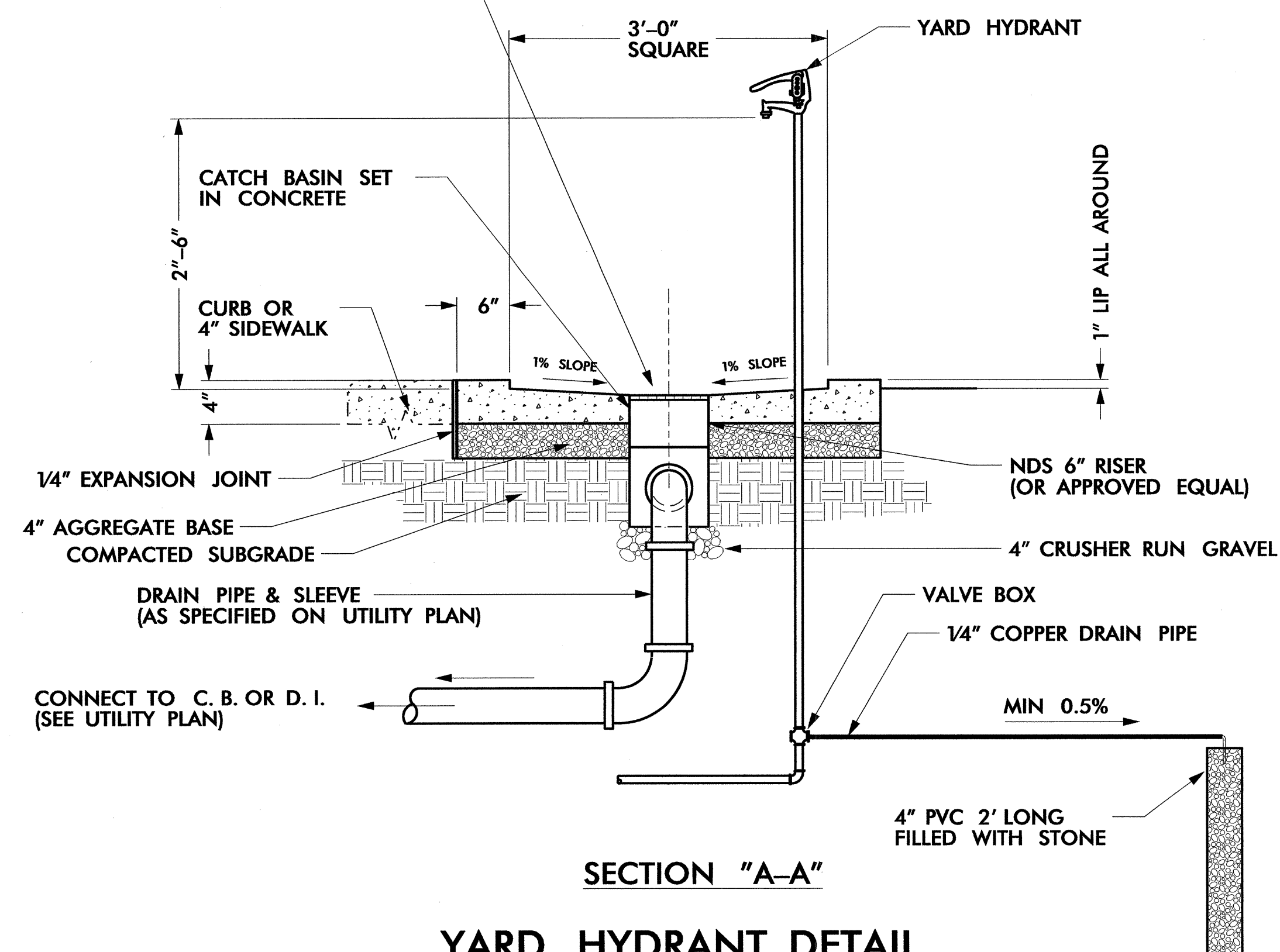
- 1 ELECTRICAL  
JUNCTION BOX  
(SEE UTILITY PLANS)
- 2 PROPOSED  
PLANT BED
- 3 WATER SUPPLY  
LINE (FROM PUMP)
- 4 DRAIN LINE
- 5 TO STORM  
SYSTEM (4" PVC)
- 6 SEATWALL  
18"-28"  
MAX HT
- 7 WATER FEATURE-BUBBLING  
BOULDERS. BOULDER SIZES  
VARY (2-5 FT WIDTH SIZE  
VARIATIONS)





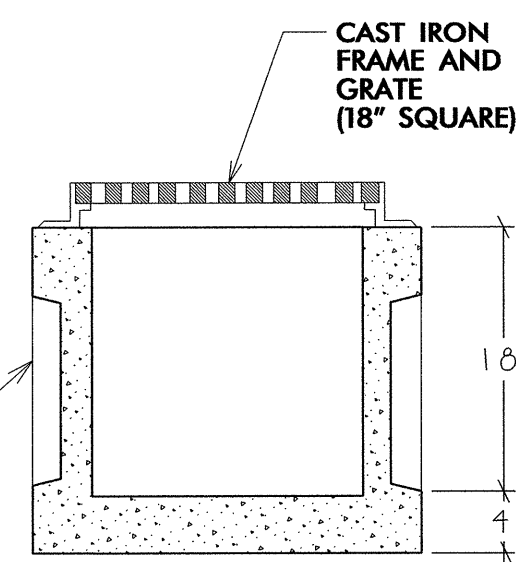
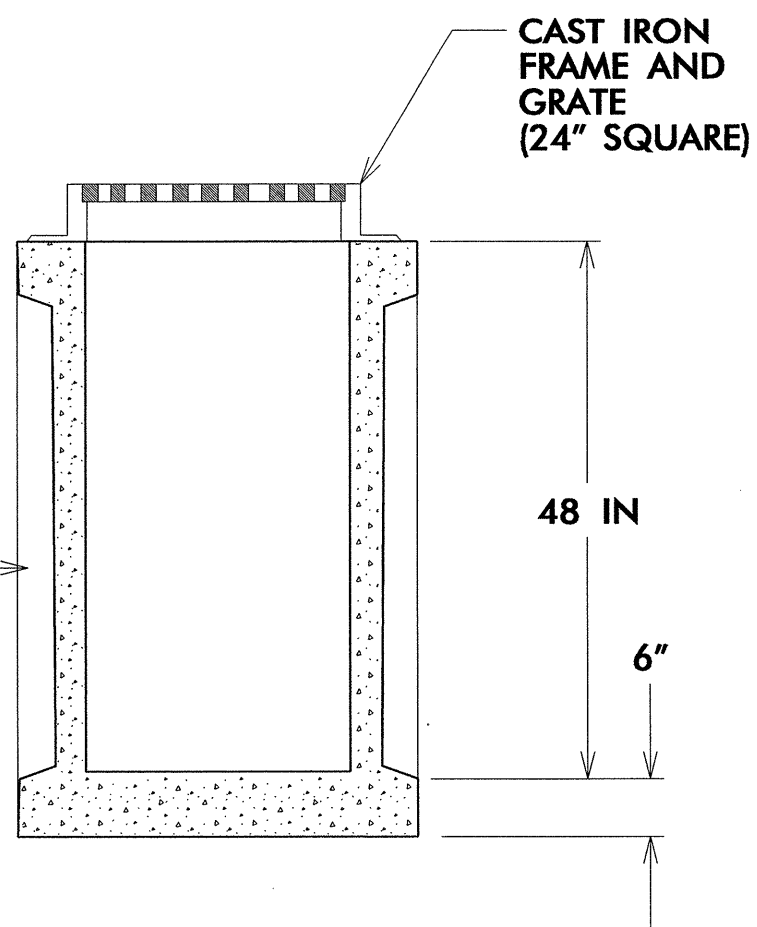
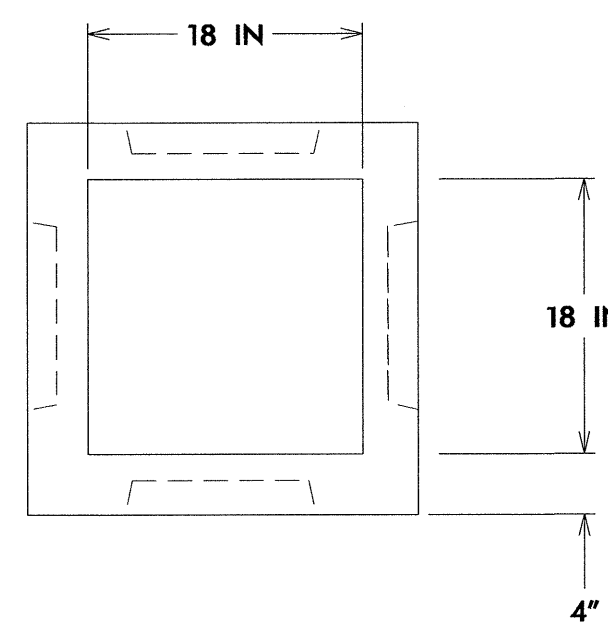
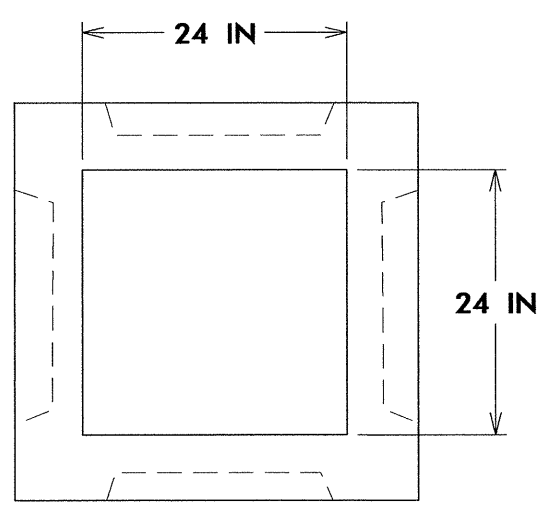
PLAN VIEW

DRAIN - REMOVABLE 9" SQ. BLACK GRATE (INDS 980 OR APPROVED EQUAL)



SECTION "A-A"  
YARD HYDRANT DETAIL

SCALE: NTS

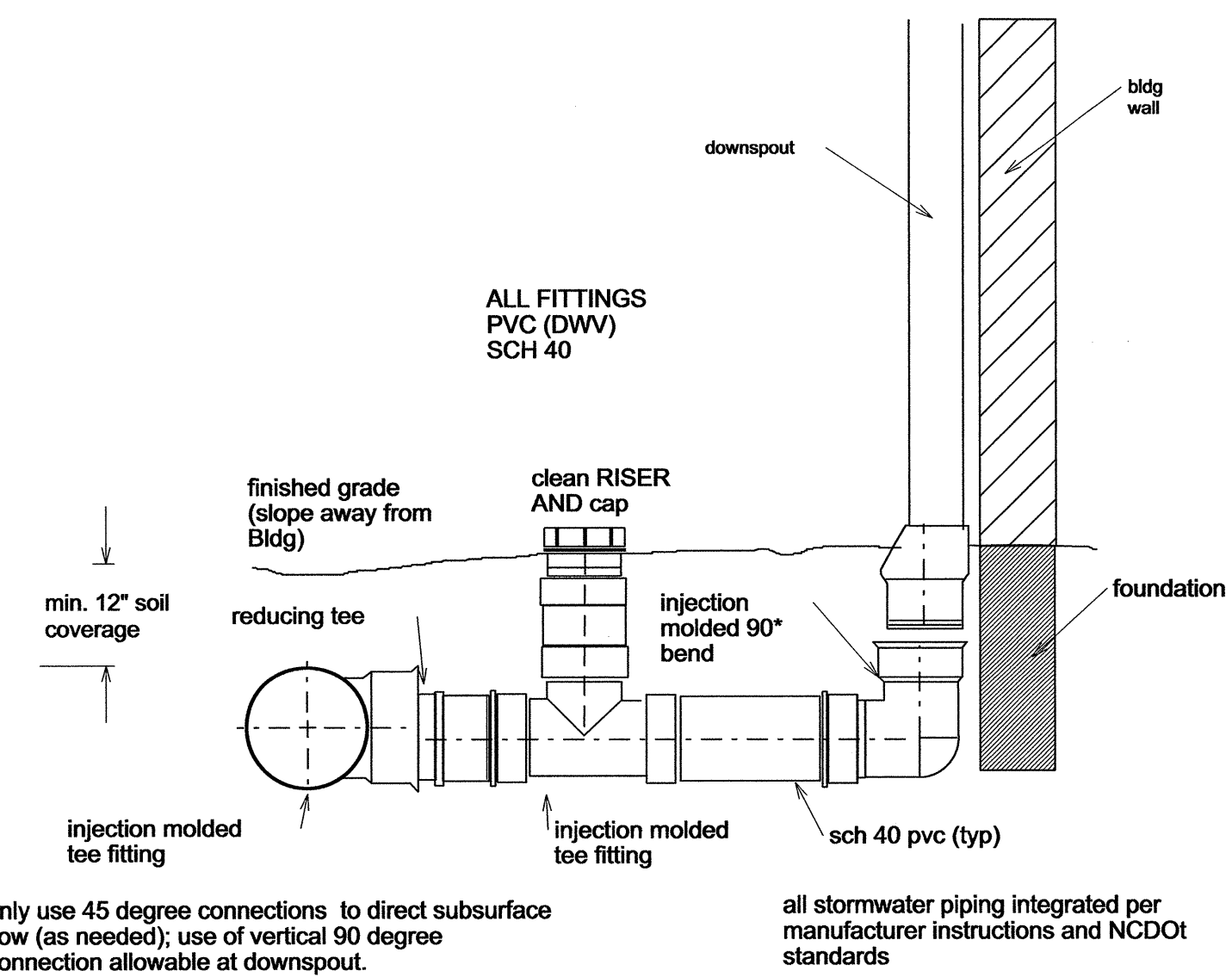


STANDARD KNOCKOUT PANELS (TYP. 4 WALLS)

STANDARD KNOCKOUT PANELS

18" AND 24" PREFABRICATED CATCH BASINS DETAIL-TYPICAL

L5  
B Not to Scale

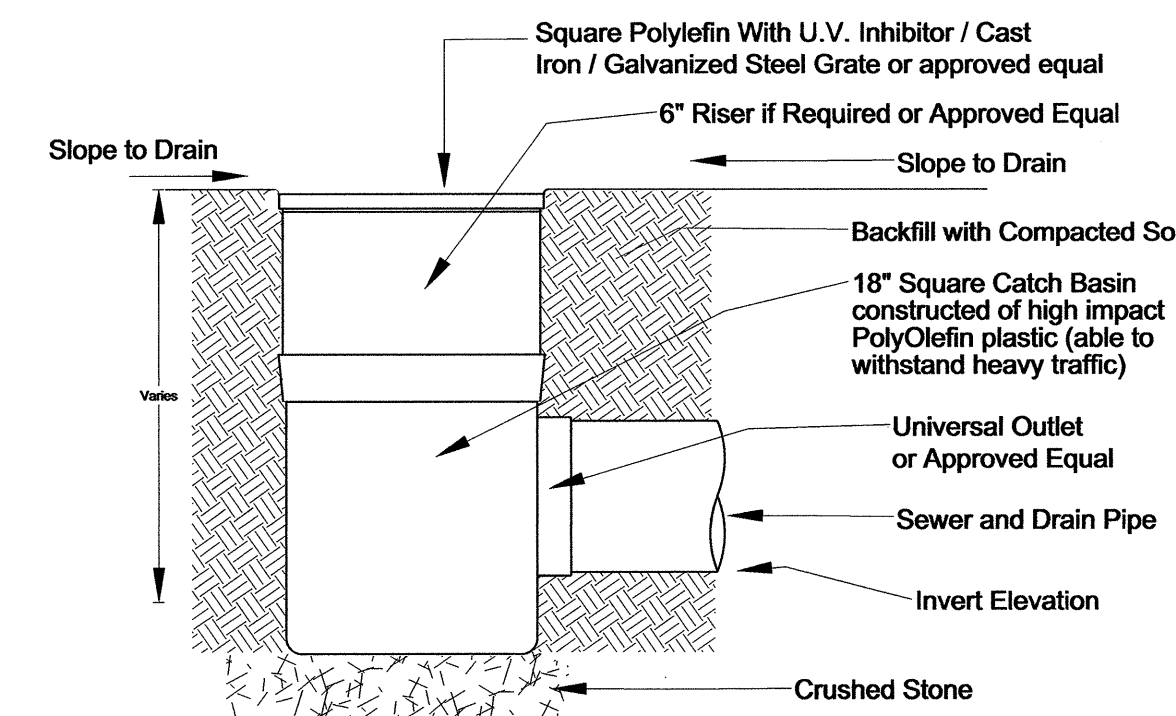


only use 45 degree connections to direct subsurface flow (as needed); use of vertical 90 degree connection allowable at downspout.  
all stormwater piping integrated per manufacturer instructions and NCDOT standards

roof leader drainage system

rl LD7

nts

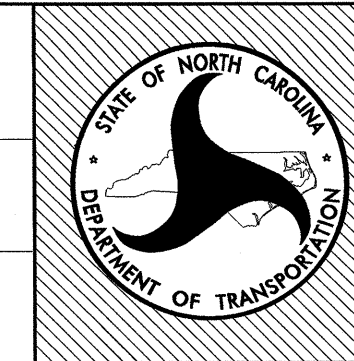
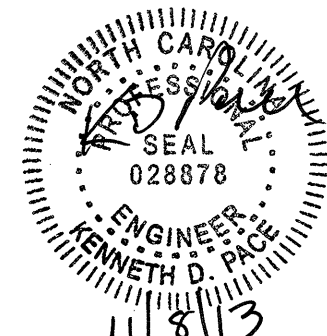


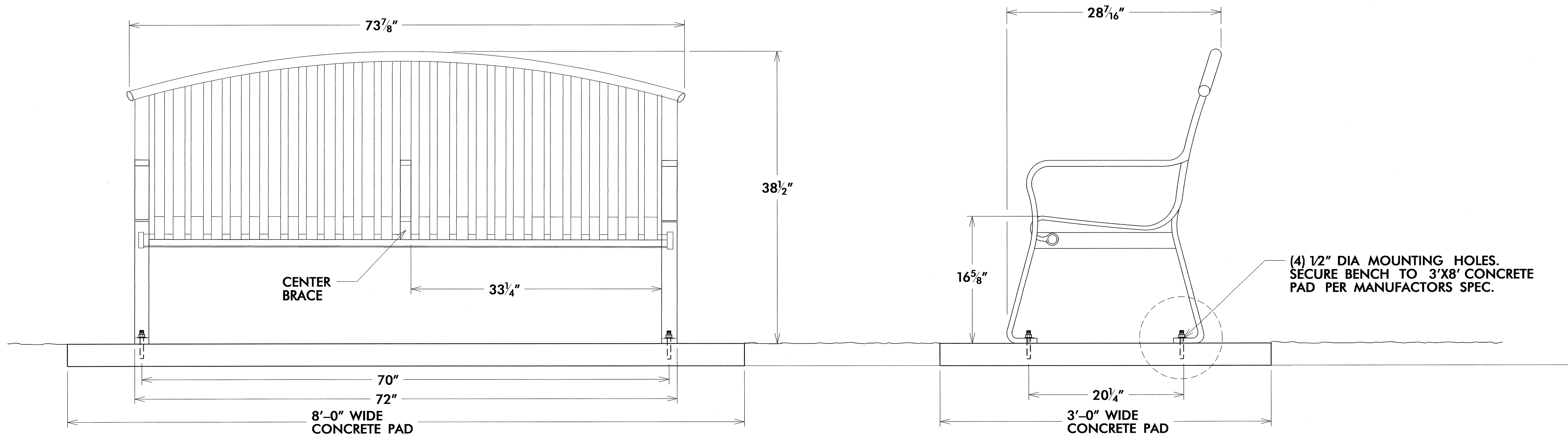
SQUARE GRATE WITH SQUARE CATCH BASIN

catch basin

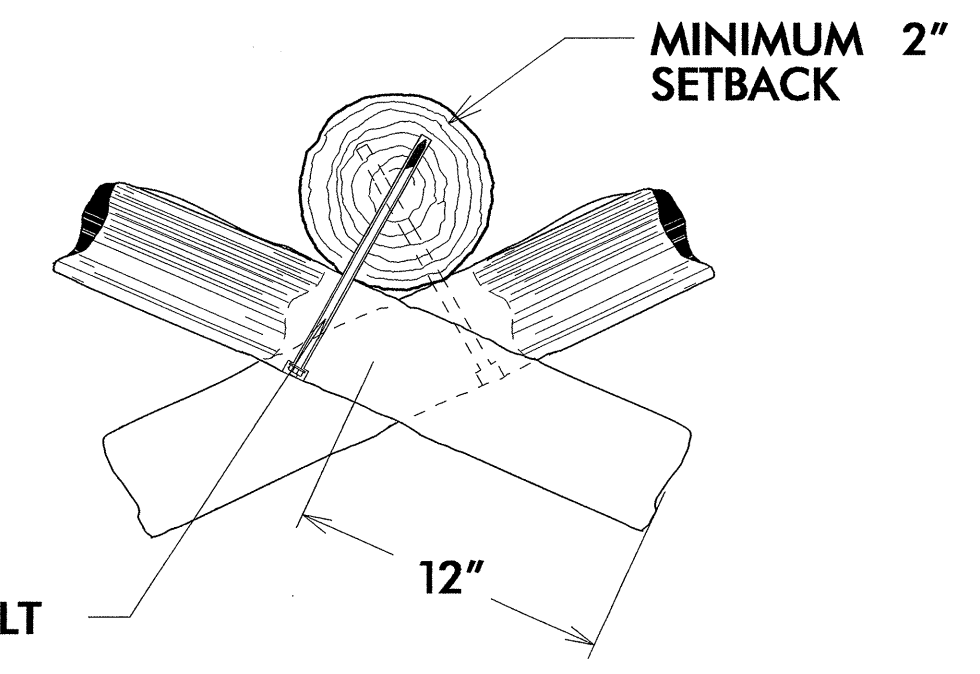
cb LD7

nts

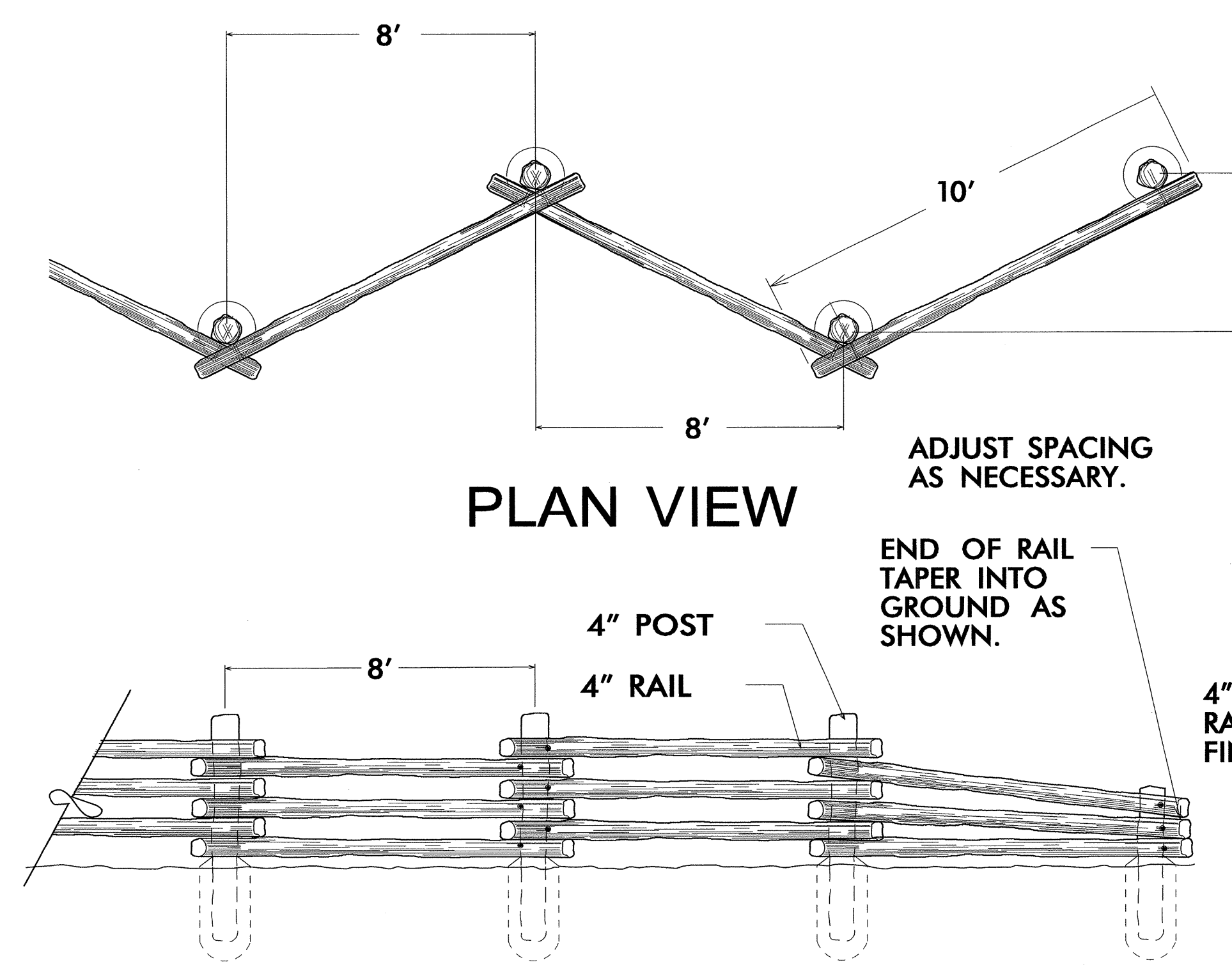




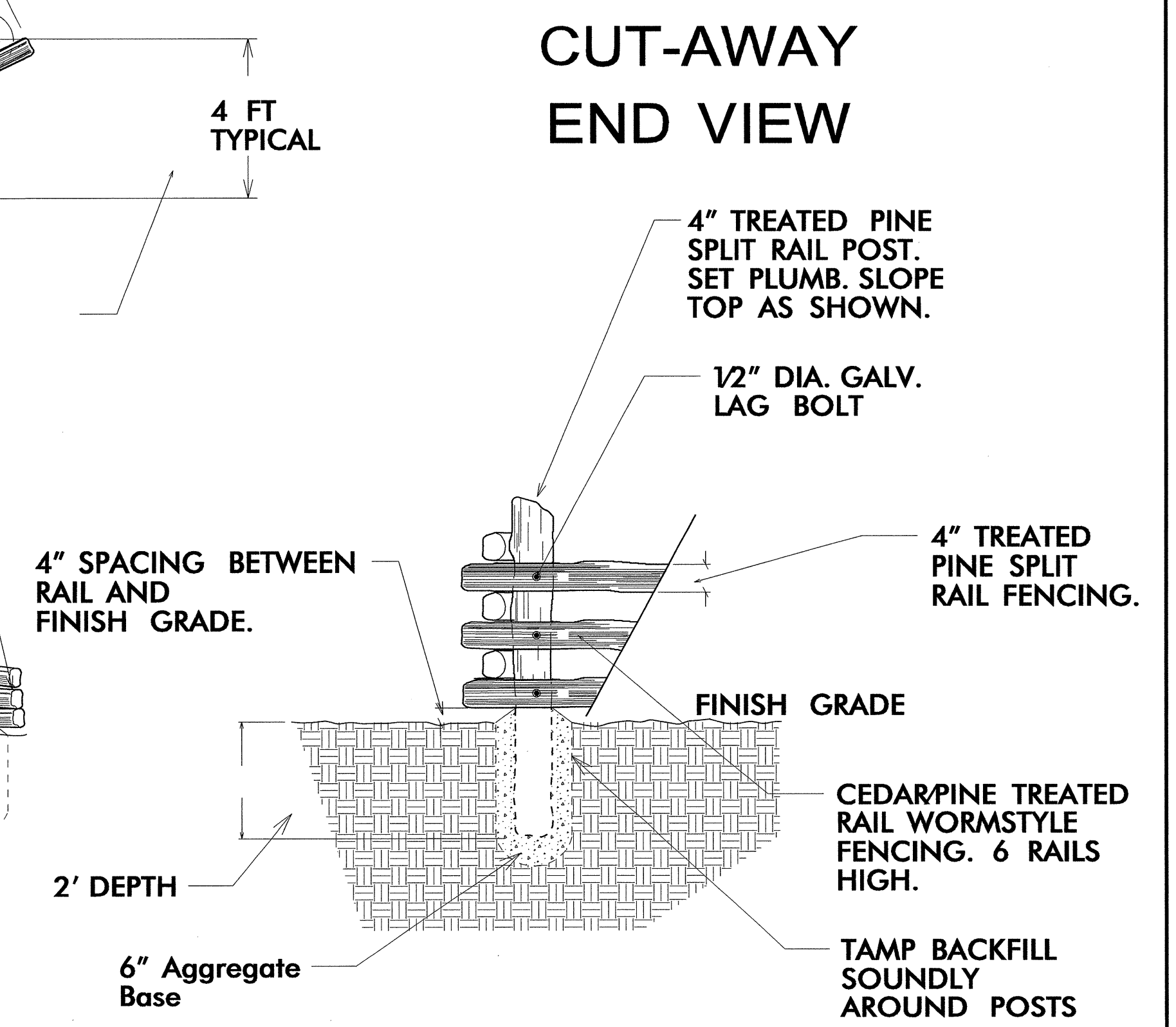
**LD13** METAL BENCH ELEVATION VIEW-TYPICAL  
**A** Not to Scale



**CONNECTION DETAIL**  
 \* A sample of the split rail fencing shall be built prior to construction for engineer review and approval



**ELEVATION VIEW-TYPICAL**

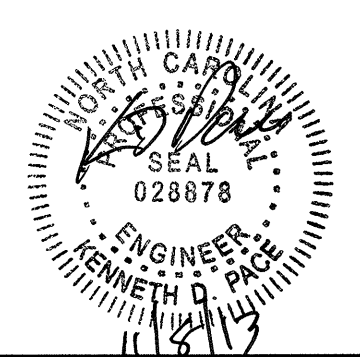


**CUT-AWAY END VIEW**

**LD13** SPLIT RAIL FENCING (WORMSTYLE)-TYPICAL  
 Not to Scale

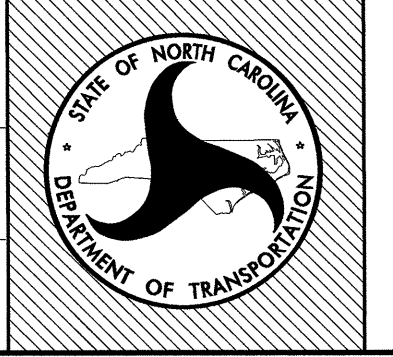
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 PH: 919-707-2920 FAX: 919-733-9810  
[http://www.ncdot.org/doh/operations/dp\\_chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

US 23 / 74 -SBL & NBL Rest Area Development  
 Haywood County, North Carolina  
 project #: K-5002 / CONTRACT C203202



Design & Development Plans  
 Bench & Wormstyle Fence

prel design date:  
 checked by & date:  
 final design date:



sheet no:  
**LD13**  
 total sheet no: 30



**NOTES:**

CONTRACTOR SHALL PROVIDE A WAYFINDING LAYOUT OF SIGNS AND DIRECTIONS TO THE VARIOUS DESTINATIONS PRIOR TO DEVELOPMENT OF SIGNAGE. FABRICATOR SHALL PRODUCE ARTWORK AS INDICATED ON THE PLANS OR AS DESCRIBED IN THE SPECIAL PROVISIONS AND SUBMIT ALONG WITH FONT CHOICES FOR SELECTION AND APPROVAL PRIOR TO CONSTRUCTING SIGN.

LETTER SIZE AND SIGN SIZE ARE APPROXIMATE, FABRICATOR SHALL ADJUST AS APPROPRIATE.

FABRICATOR SHALL SUBMIT A FULL SCALE MOCK UP OF SIGN WITH DIMENSIONS INDICATED & COLORS FOR APPROVAL PRIOR TO PRODUCING.

THE BACK OF ALL SIGNS SHALL BE FINISHED ACCORDING TO VISIBILITY.

FABRICATOR'S INSTRUCTIONS FOR MOUNTING ALONG WITH ALL HARDWARE SHALL BE FURNISHED WITH EACH SIGN.

**COLOR KEY:**

A	- WHITE
B1	- BLUE: SKY - RECESSED LT. BROWN: MOUNTAINS (FADE BETWEEN TWO COLORS)
B2	- GREY
C	- FOREST GREEN
C1	- BLUE
C2	- BLACK
C3	- GLOSSY WHITE

1) BACKGROUND TO BE SANDBLASTED. LETTERS, BORDER, AND ART TO BE RAISED WITH MINIMUM 3/8" RELIEF. RELIEF DEPTH MAY VARY WITH COMPLEXITY OF SIGN ART AND LETTERING.

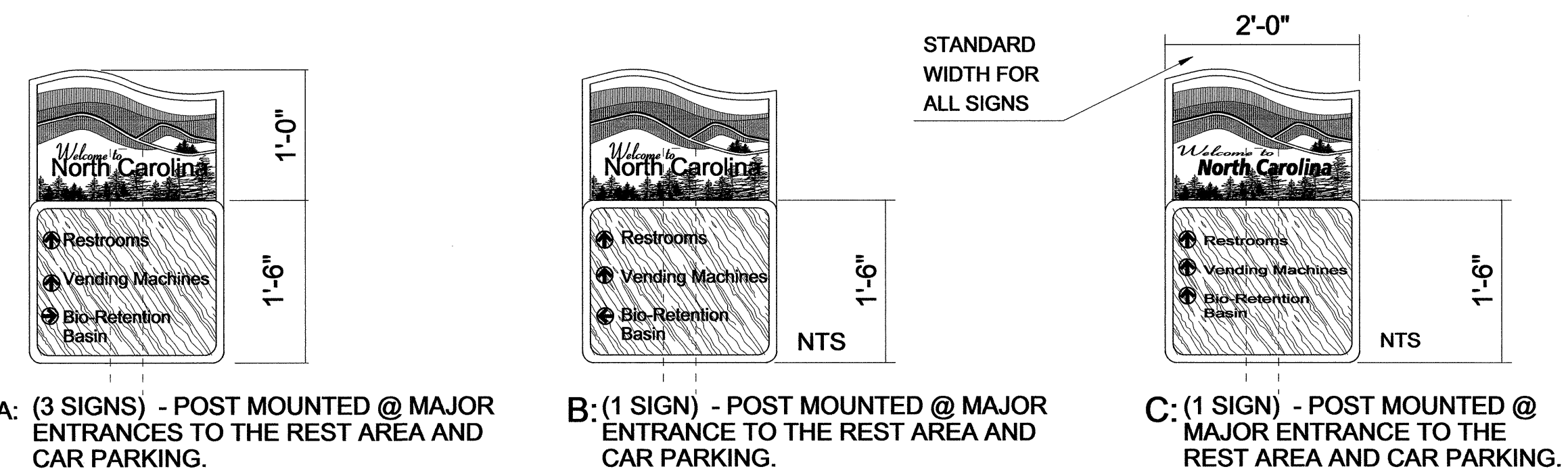
2) FINISH BACKSIDE OF EACH SIGN AND STAIN ALL WOOD POSTS. COLOR: TO MATCH BUILDING SOFFIT.

3) FABRICATOR TO FURNISH INSTRUCTIONS AND ALL HARDWARE FOR MOUNTING SIGNS AS INDICATED ON THESE DETAILS.

4) ALL SANDBLASTED SIGNS SHALL BE RE-INFORCED WITH ALUMINUM BACKING MIN. .0125 THICKNESS. CONSULT SECTION 901 FOR INSTALL AND CONNECTIONS. SILK SCREENED ART TO BE APPROVED VIA MOCK BEFORE FINAL PRODUCTION.

5) SECURE SANDBLASTED SIGNS WITH THROUGH BOLTS AND APPROVED CONSTRUCTION ADHESIVE. SECURE AND CAULK SURROUND EDGES WITH CLEAR WEATHERPROOF SILICON.

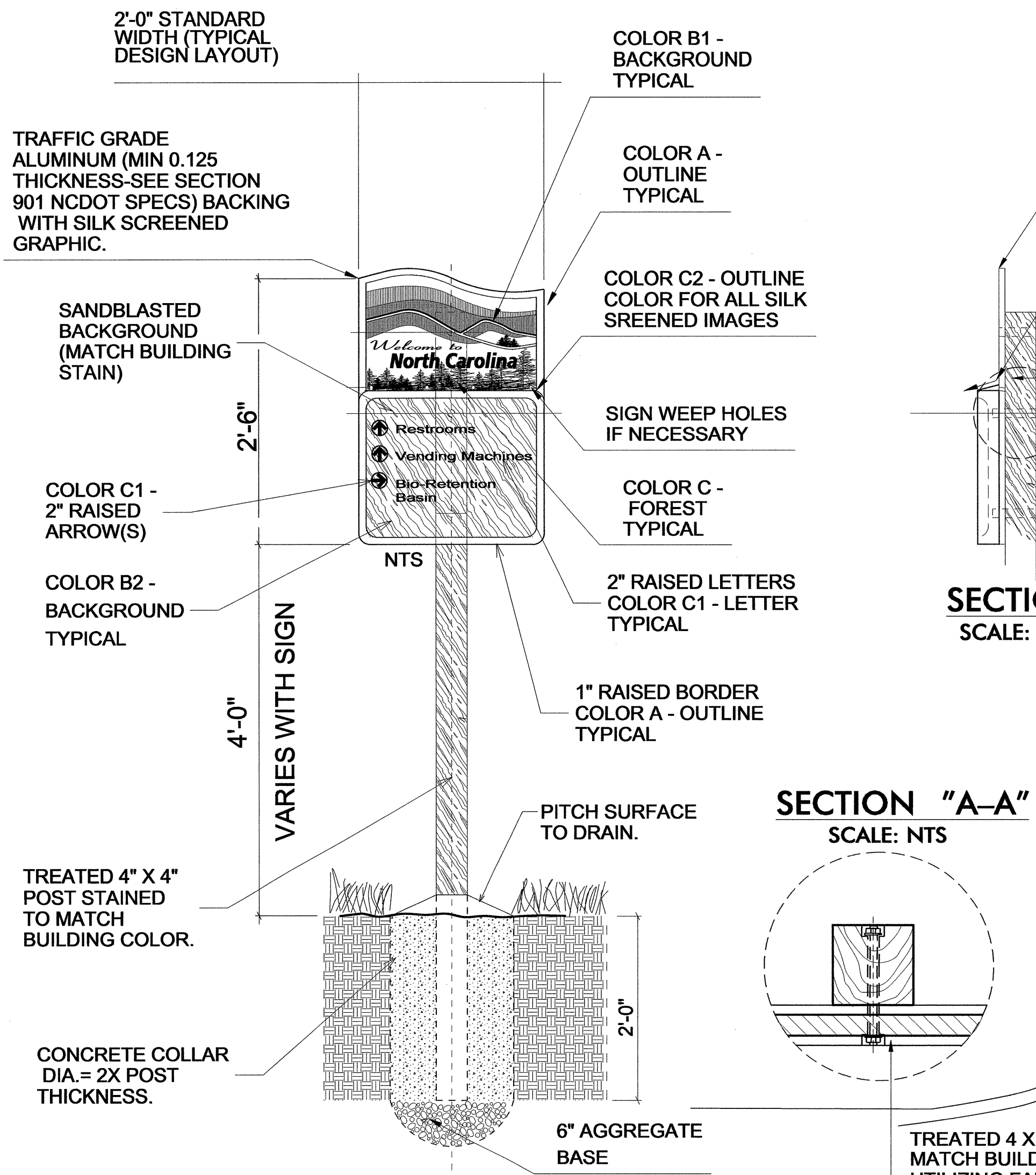
\*\*\*FINAL DECISIONS FOR COLORS SHALL BE MADE WHEN FULL SCALE MOCK UP IS PRESENTED TO ENSURE VISIBILITY & READABILITY.



A: (3 SIGNS) - POST MOUNTED @ MAJOR ENTRANCES TO THE REST AREA AND CAR PARKING.

B: (1 SIGN) - POST MOUNTED @ MAJOR ENTRANCE TO THE REST AREA AND CAR PARKING.

C: (1 SIGN) - POST MOUNTED @ MAJOR ENTRANCE TO THE REST AREA AND CAR PARKING.



TRAFFIC GRADE ALUMINUM (MIN 0.125 THICKNESS-SEE SECTION 901 NCDOT SPECS) BACKING WITH SILK SCREENED GRAPHIC.

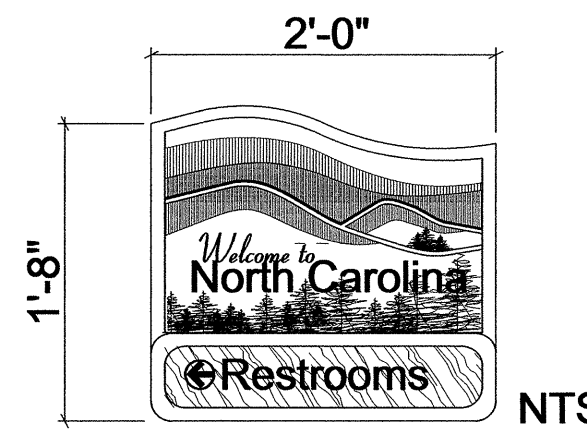
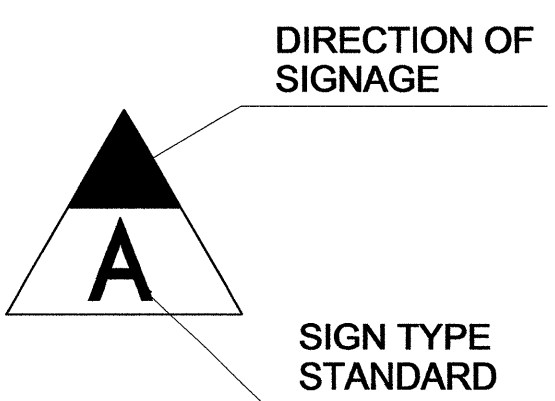
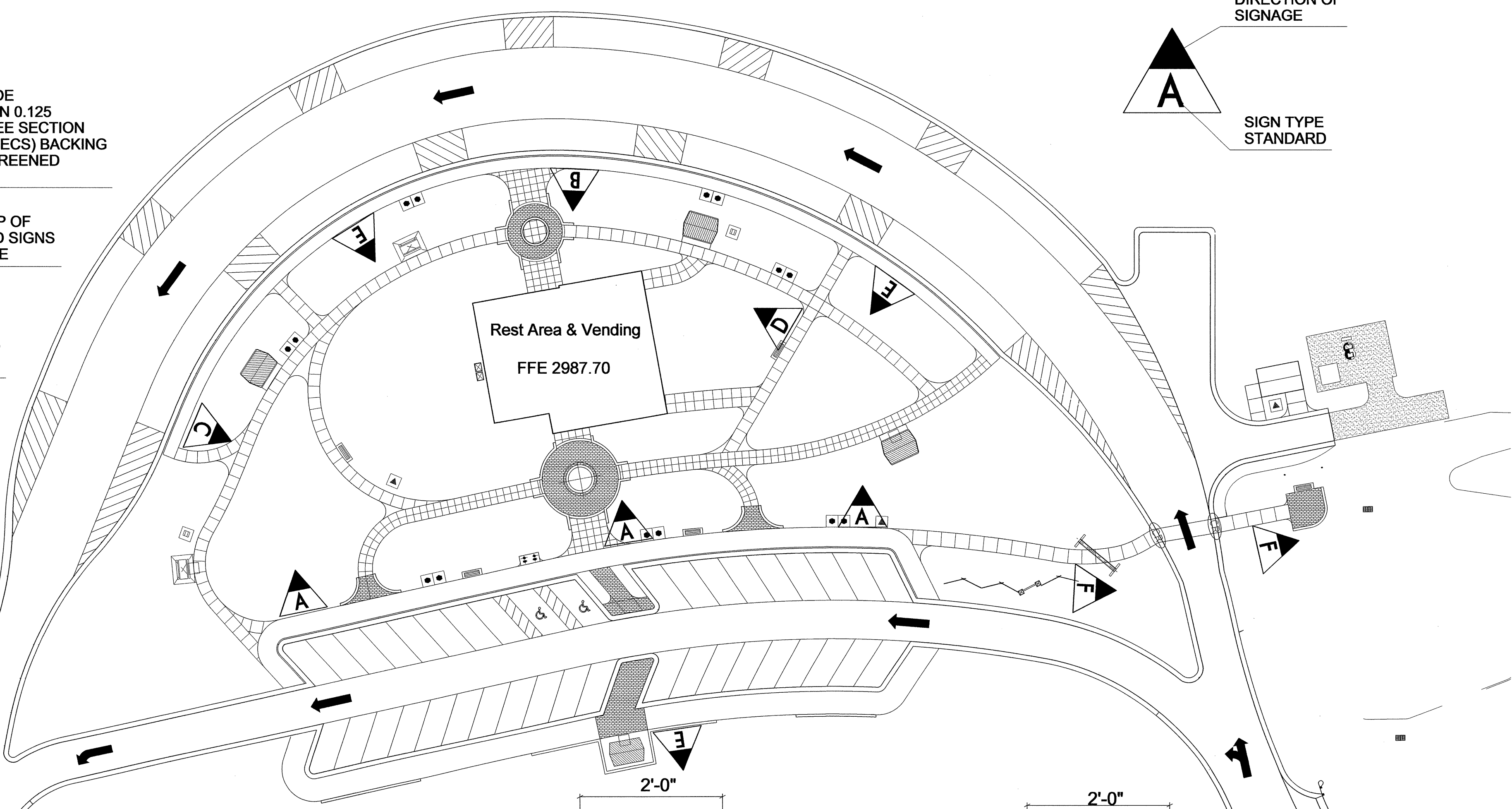
2% SLOPE-TOP OF SANDBLASTED SIGNS FOR DRAINAGE

1/8" SIGN WEEP HOLES

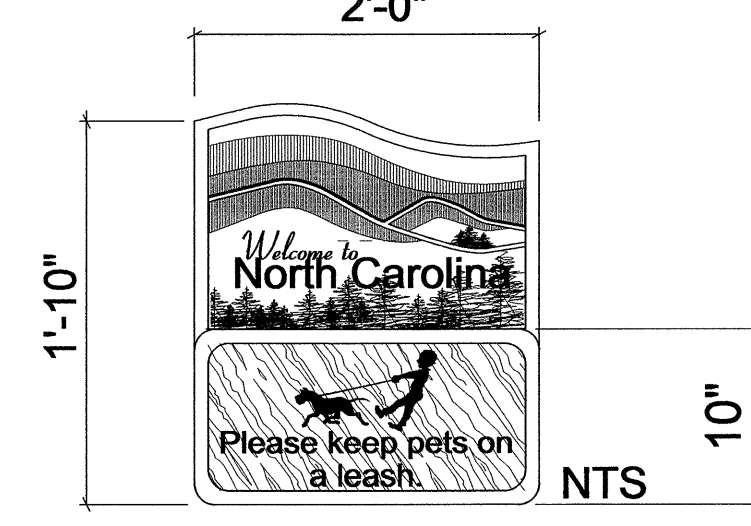
SECTION SCALE: NTS

SECTION "A-A" SCALE: NTS

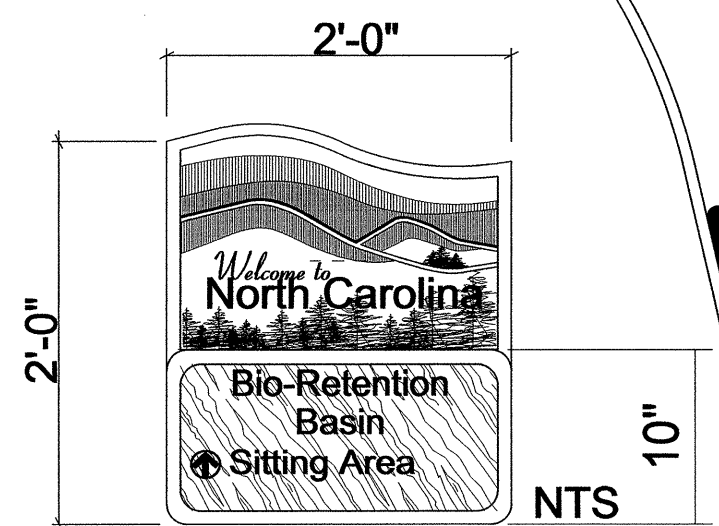
TREATED 4 X 4 STAINED TO MATCH BUILDING SOFFIT. SECURE SIGN UTILIZING FABRICATORS SPECIFIED FASTENERS OR WITH TWO (2) 1/2" GALVANIZED BOLTS. EACH COMPLETE WITH TWO (2) 1/2" WASHERS AND NUT. (COUNTERSINK). CONSULT WITH FIELD ENGINEER PRIOR TO ANY INSTALLATION.



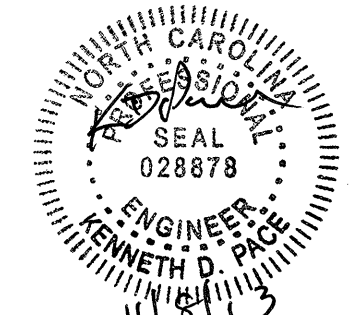
D: (1 SIGN) - POST MOUNTED @ INTERSECTION. MOUNTING POST SHALL BE BETWEEN 2-3' AS DICTATED BY SITE AND ADJUSTED BY THE ENGINEER IN THE FIELD.



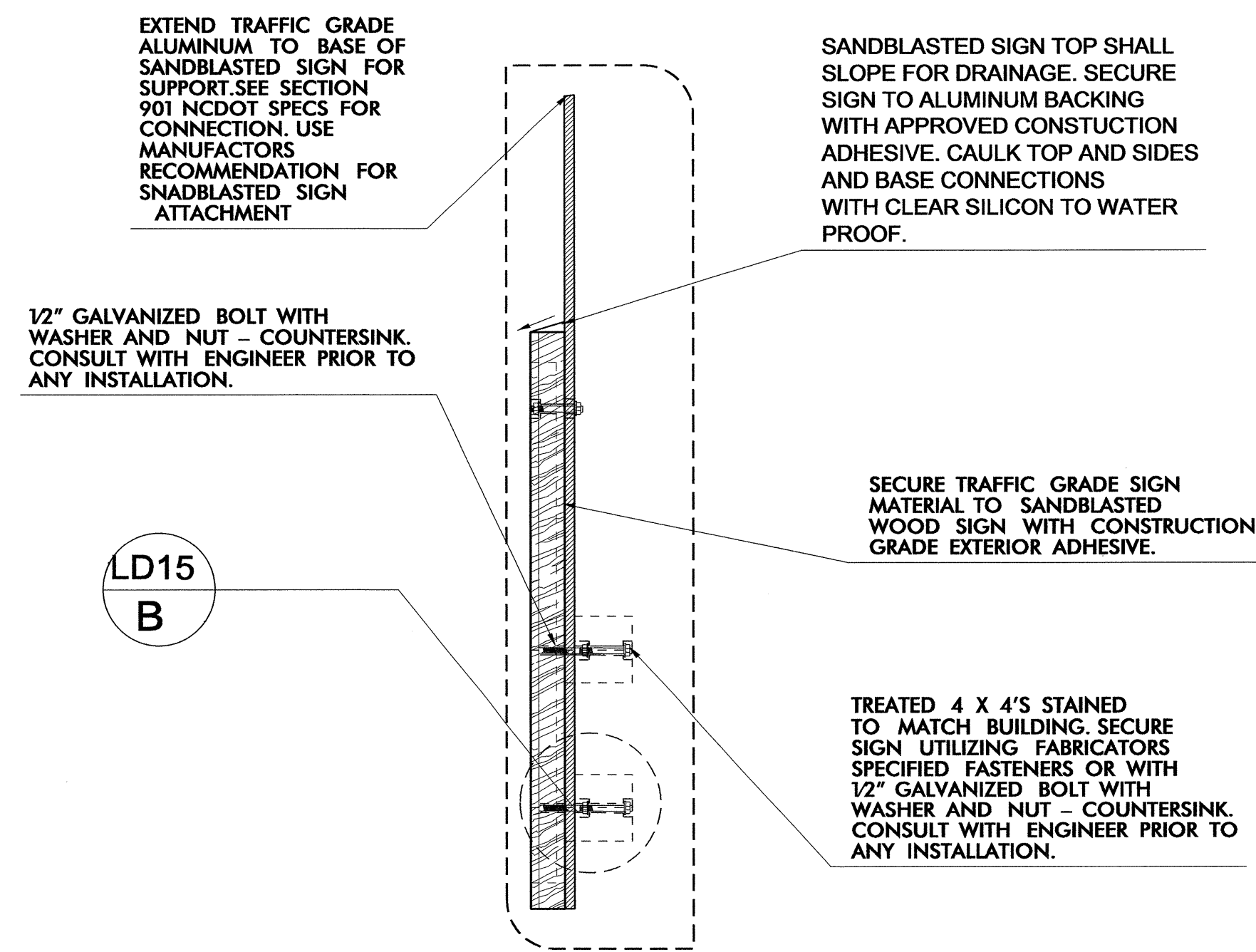
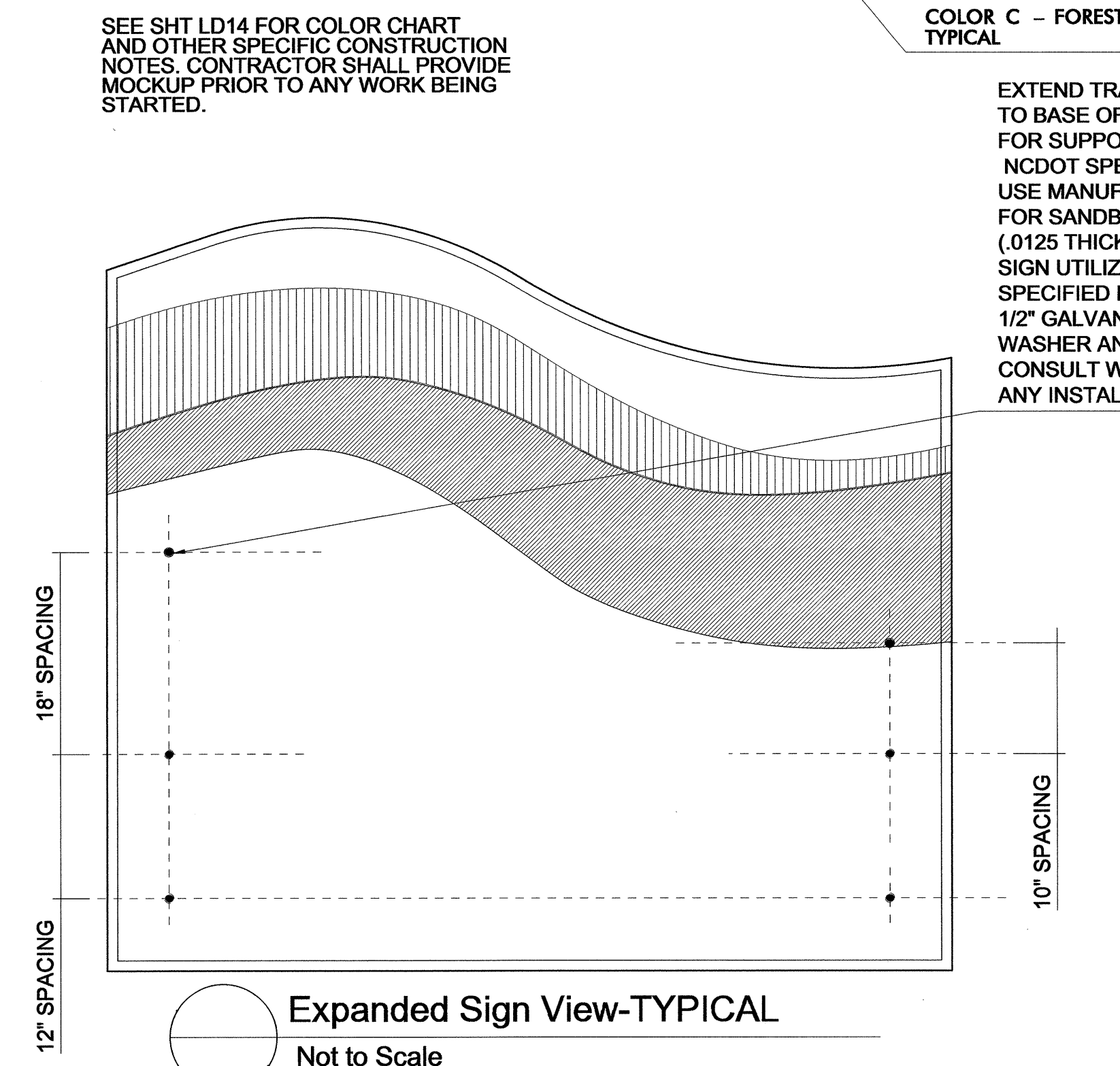
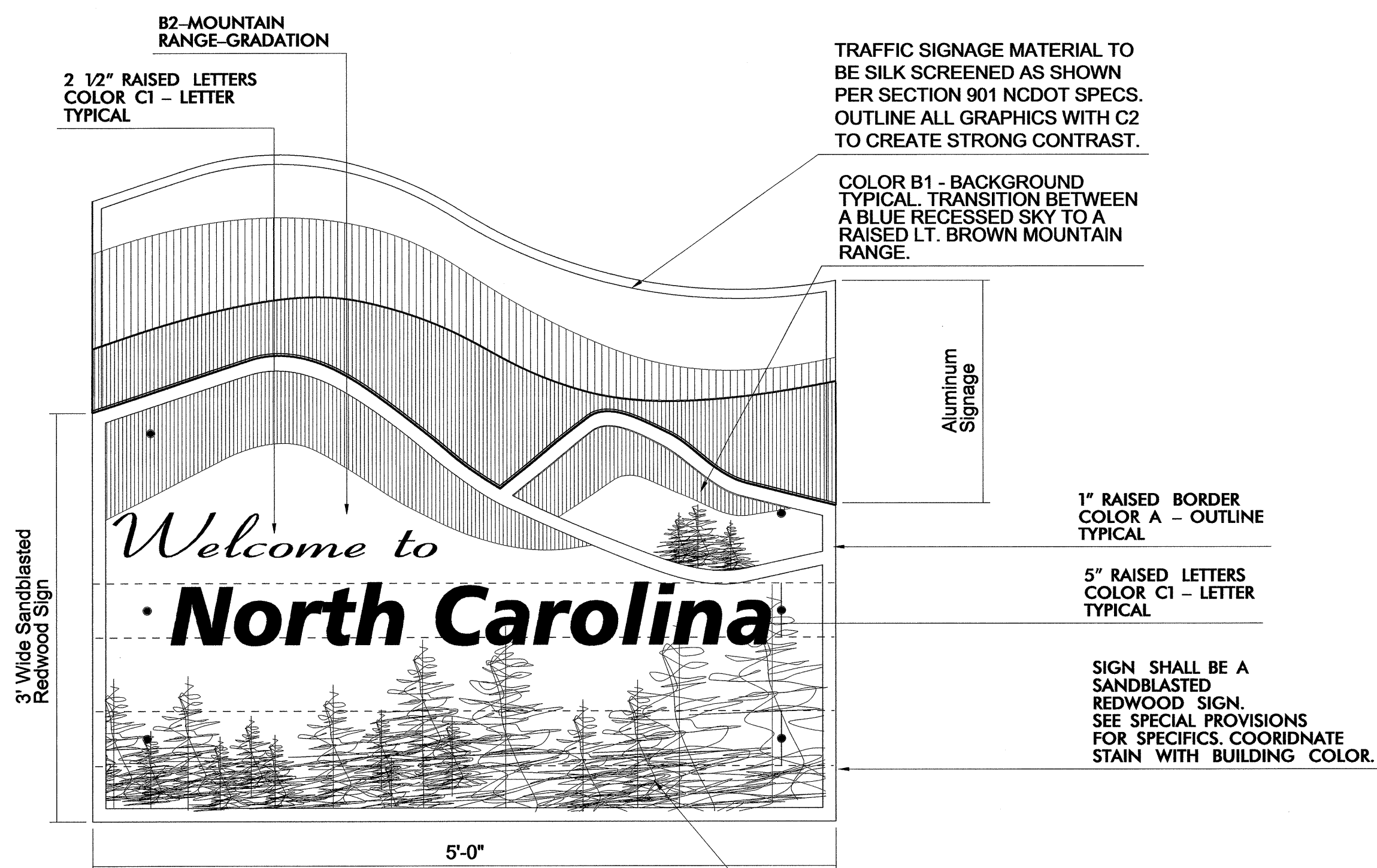
E: (3 SIGNS) - POST MOUNTED @ INTERSECTIONS TO PARKING AND WALKS. MOUNTING POST SHALL BE BETWEEN 4-6' AS DICTATED BY SITE AND ADJUSTED BY THE ENGINEER IN THE FIELD.



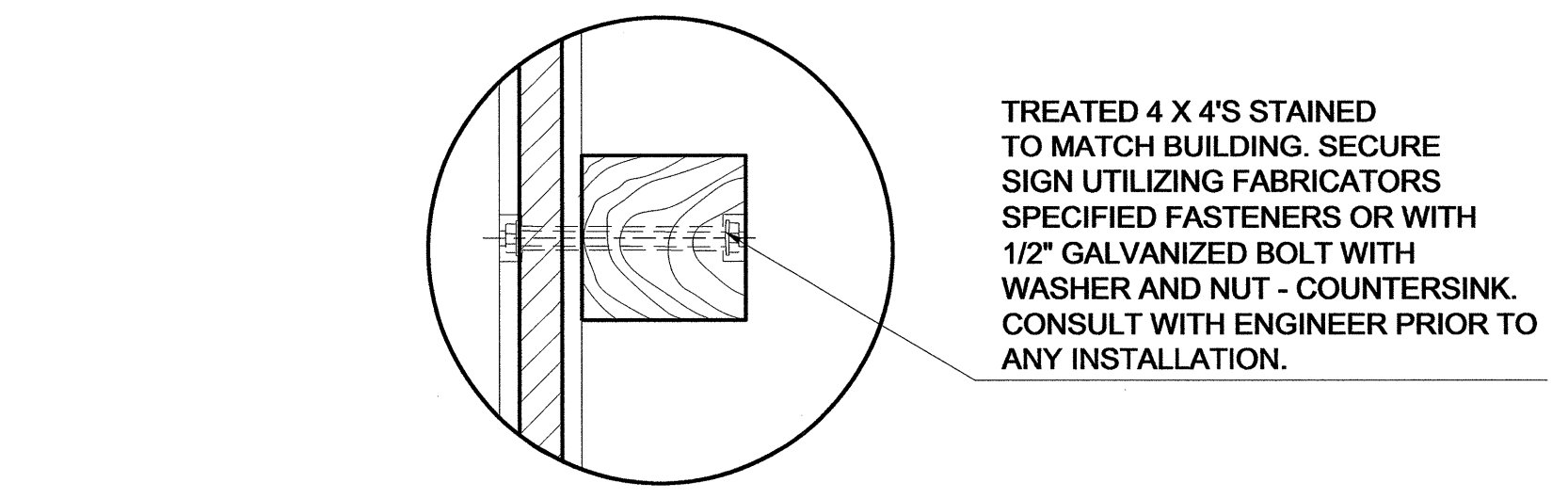
F: (2 SIGNS) - MOUNTING HEIGHT SHALL BE BETWEEN 4-6' HIGH AND AS DETERMINED BY THE ENGINEER IN THE FIELD.



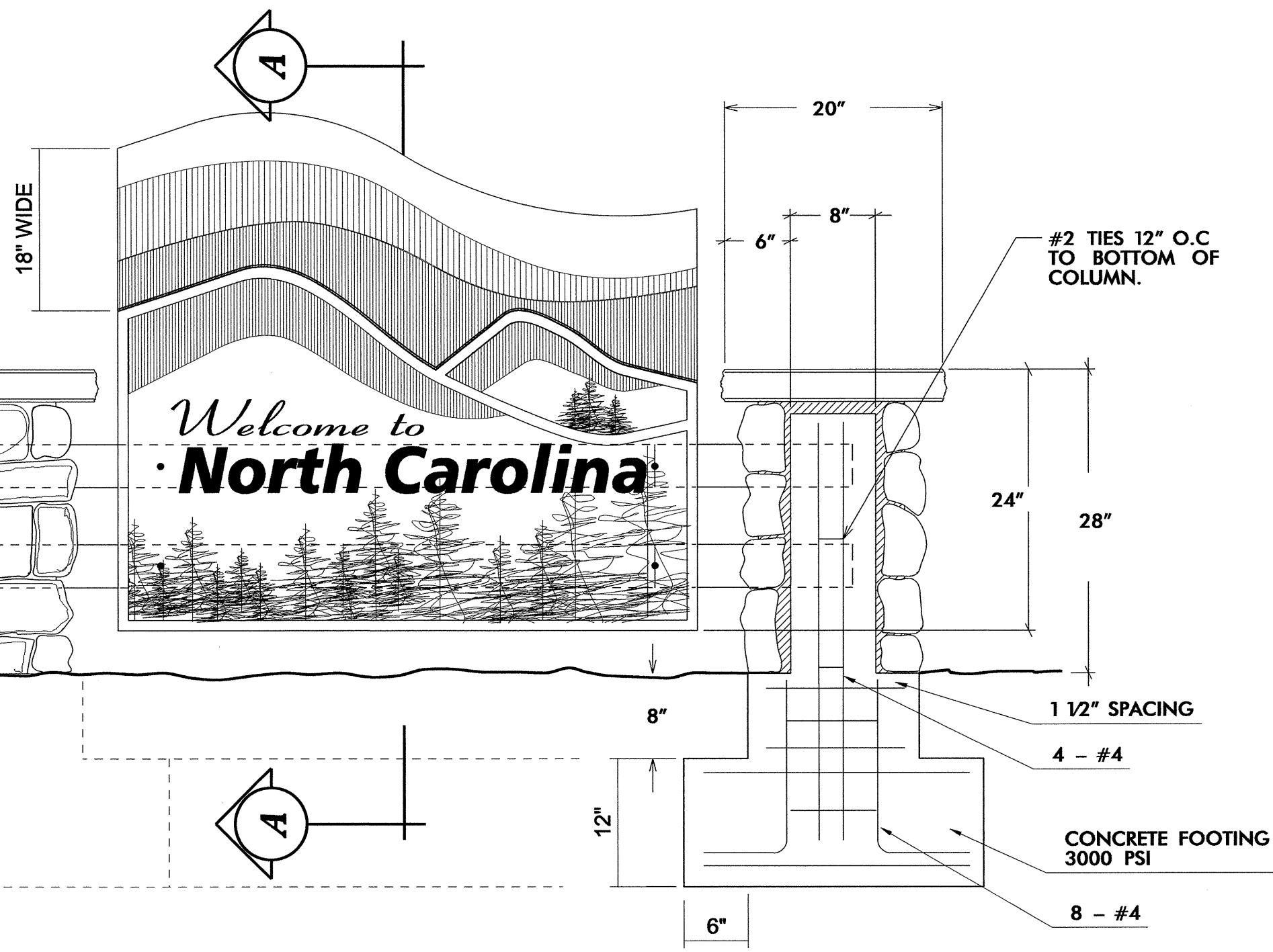




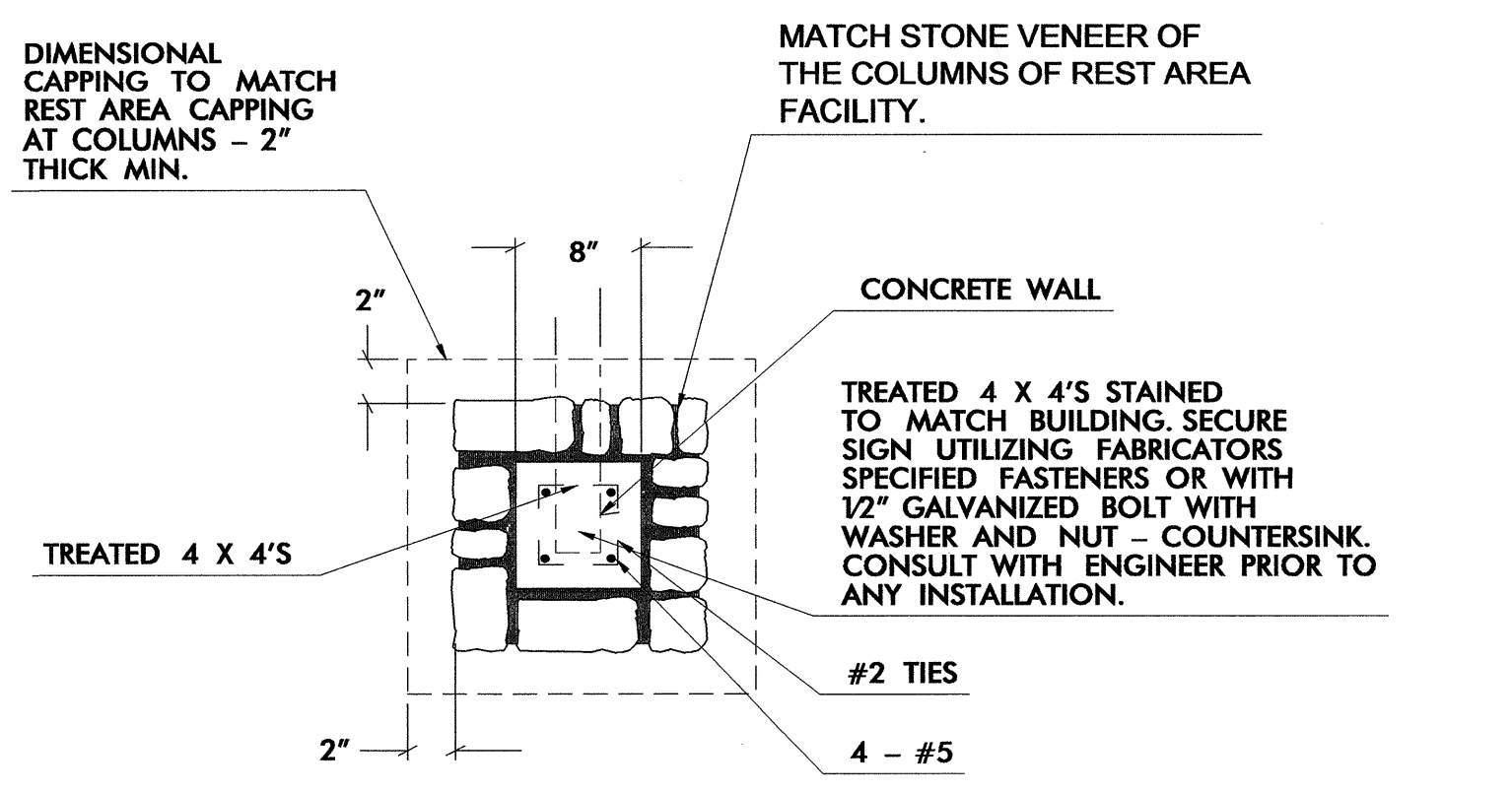
LD15 B  
SECTION VIEW AT ALUMINUM SIGNAGE AND SANDBLASTED SIGN  
NOT TO SCALE



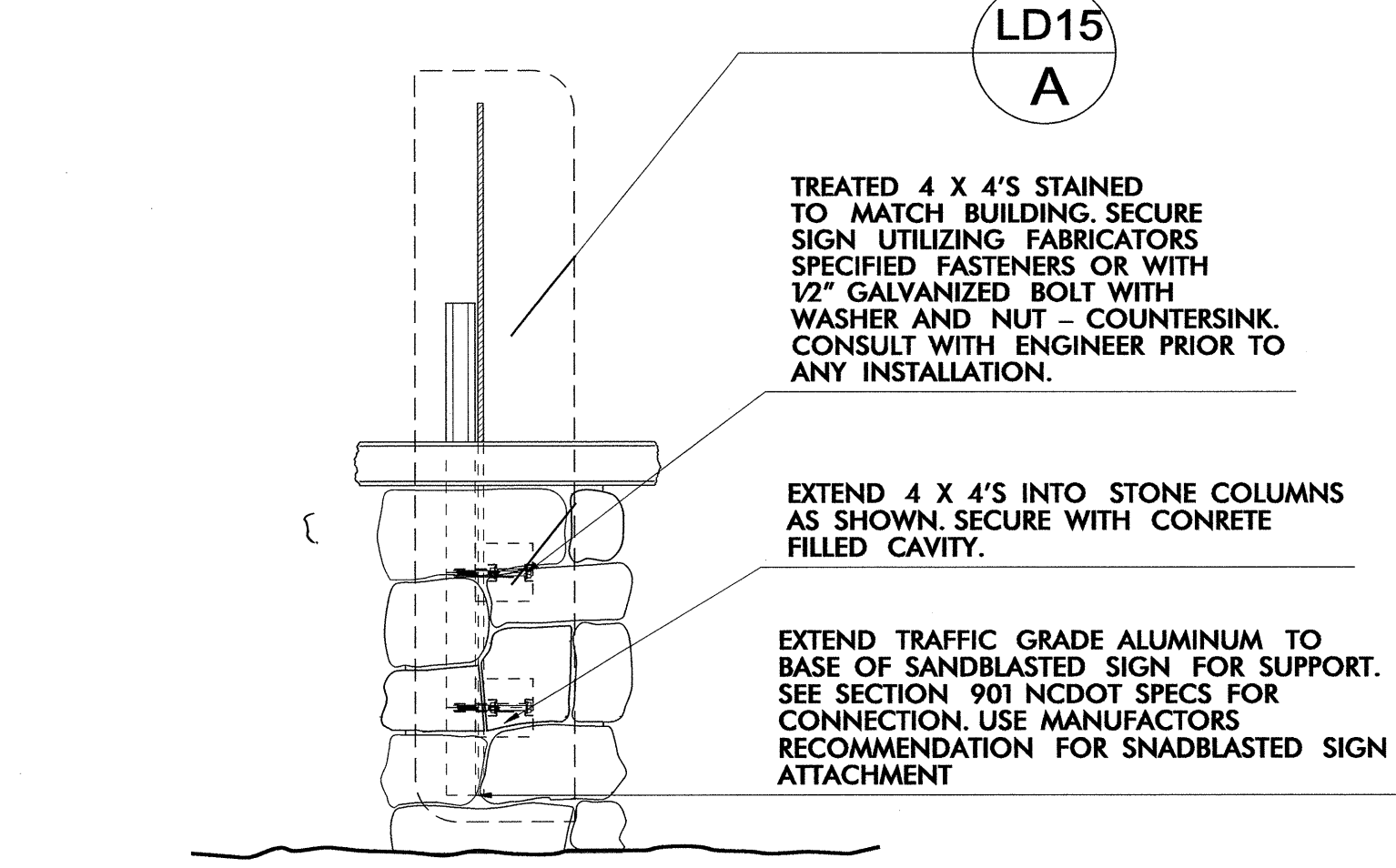
LD15 B  
SECTION VIEW AT ALUMINUM SIGNAGE AND SANDBLASTED SIGN  
NOT TO SCALE



LD15 A  
WELCOME TO NC SIGN ELEVATION DETAIL  
No Scale



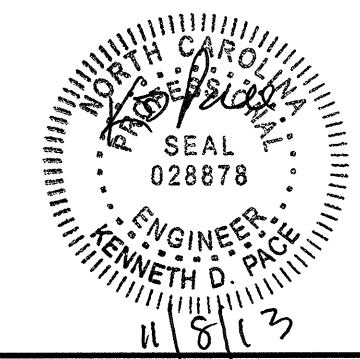
LD15 A  
TOP VIEW:  
SCALE: NTS



LD15 A  
SECTION "A-A"  
SCALE: NTS

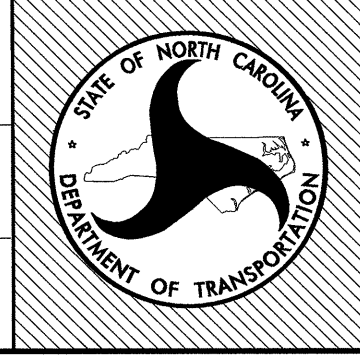
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US 23 / 74 -SBL & NBL Rest Area Development  
Haywood County, North Carolina  
project #: K-5002 / CONTRACT C203202



sheet description:  
Design & Development Plans  
Entrance Sign Details

prel design date:  
checked by & date:  
final design date:



sheet no:  
**LD15**  
total sheet no: 30