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Contract : I-40 REST AREA WELCOME CENTER, HAYWOOD CO

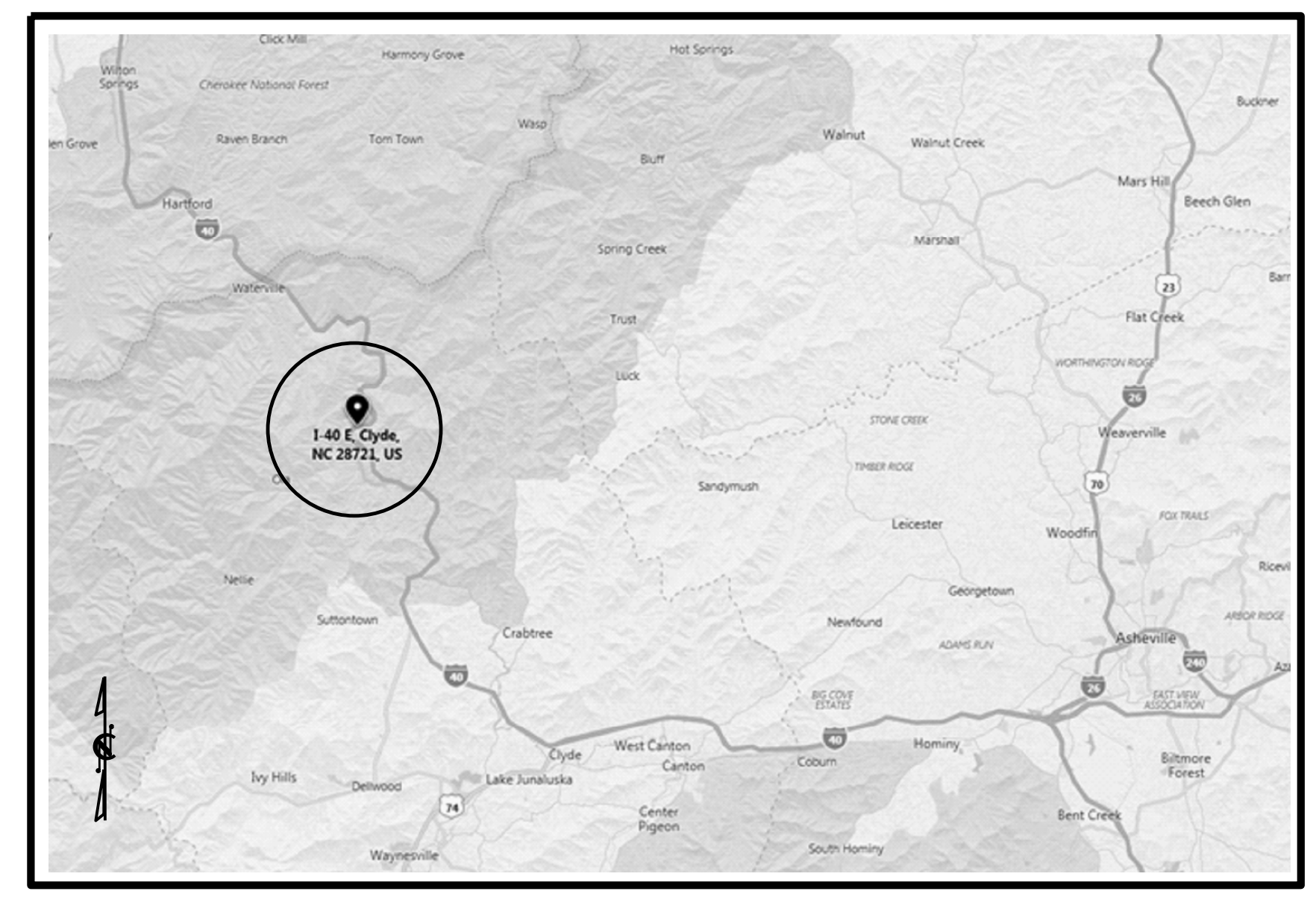
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## HAYWOOD COUNTY

### Welcome Center Rest Area

Location: I-40 EBL, 10.5 Miles East of the NCTN State Line

Type of Work: Building and Site Renovation



VICINITY MAP

#### INDEX OF SHEETS

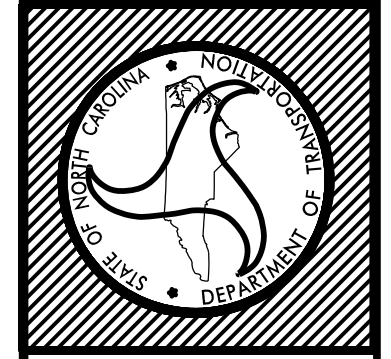
##### LANDSCAPE & SITE DEVELOPMENT PLANS

- L-1 TITLE SHEET
- L-2 SITE PLAN
- L-3 SITE DEMOLITION PLAN
- L-4 SITE UTILITY BASE PLAN
- L-5 GRADING-DRAINAGE PLAN
- L-6 LAYOUT-DIMENSION PLAN
- L-7 HARDSCAPE PLAN
- L-8 LANDSCAPE DEMOLITION PLAN
- L-9 LANDSCAPE PLANTING PLAN
- LD-1 PAVEMENT & WALL DETAILS
- LD-2 HANDICAP ENTRANCE RAMP DETAIL
- LD-3 WATER FEATURE DETAILS
- LD-4 BOULDER PLAN AND FENCE DETAILS
- LD-5 HANDICAP CURB CUT, SPIGOT, AND WATER SHUT OFF DETAILS
- LD-6 PLANTING DETAILS

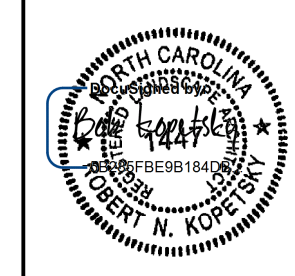
QTY	UNIT	Site Pay Items	
132	CY	Mulch for Planting	Standard Spec. Sect. 1670-10
20	MG	Water for Planting	Standard Spec. Sect. 1670-11
1	ACR	Seeding and Mulching	Standard Spec. Sect. 1660
1	TON	Sediment Control Stone	Standard Spec. Sect. 1610
150	LF	1/4" Hardware Cloth	Standard Spec. Sect. 1632
1200	LF	Tree Protection Fence	
80	SY	Pre emergence Herbicidal Treatment	Standard Spec. Sect. 1670-7
80	SY	Post emergence Herbicidal Treatment	Standard Spec. Sect. 1670-7
125	SY	Sod	Standard Spec. Sect. 1664
60	CY	Borrow Excavation	Standard Spec. Sect. 230
162	CY	Topsoil	
1	LS	Landscape Finish Grading	
1	LS	Placement of Boulders	
168	LF	Wood-Wire Fence	
80	LF	Wire Fence	
3	CY	Concrete Steps	
1	LS	Building Entrance Ramp	
550	SY	4" Concrete Sidewalk	
2,255	SF	Pavers	
240	LF	Pedestrian Curb	
1	LF	Site Demolition	
250	SF	Reface Existing Stone Wall	
100	LF	Sitting-Retaining Wall	
1	LS	Water Feature	
1	EA	Curb Cut Ramp	Standard Spec. Sect. 848
1	LS	Landscape Planting	
170	LF	1" Water Line	
1	EA	1" Water Line Spigot and Box	
2	EA	1" Shutoff Valve and Box	

Landscape Plant List				
QTY.	UNIT	BOTANICAL NAME	COMMON NAME	FURNISH
Trees				
2	EA	<i>Acer palmatum 'Sango Kaku'</i>	Coral Bark Japanese Maple	8-10', 1 1/2" cal. B&B
4	EA	<i>Chamaecyparis obtusa 'Compacta'</i>	Compact Hinoki Cypress	5-6', B&B or #15 cont
4	EA	<i>Juniperus scopulorum 'Skyrocket'</i>	Skyrocket Juniper	3-4", #10 Cont
1	EA	<i>Oxydendron arboreum</i>	Sourwood	8-10', 1.5 - 1.75" cal. B&B
2	EA	<i>Pinus nigra</i>	Black Pine	6-8', B&B
13		total trees		
Shrubs				
13	EA	<i>Berberis thunbergii 'SMBTM'</i>	Lava Nugget Barberry	#3 Cont. 15-18"
3	EA	<i>Euonymus alatus 'Compactus'</i>	Dwarf Burning Bush	#3 Cont. 18-24"
4	EA	<i>Hydrangea quercifolia 'Ruby Slippers'</i>	Ruby Slippers Oakleaf Hydrangea	#3 Cont. 15-18"
3	EA	<i>Hydrangea quercifolia 'Bridal'</i>	Snowflake Oakleaf Hydrangea	#3 Cont. 15-18"
31	EA	<i>Ilex vomitoria 'Schillings Dwarf'</i>	Schillings Dwarf Yaupon Holly	#3 Cont. 15-18"
14	EA	<i>Juniperus chinensis 'Sargentii'</i>	Sargent's Juniper	#1 Cont. 9-12"
11	EA	<i>Juniperus procumbens 'Nana'</i>	Japanese Garden Juniper	#1 Cont. 9-12"
2	EA	<i>Kalmia latifolia 'Elf'</i>	Elf Mountain Laurel	#3 Cont. 15-18"
2	EA	<i>Physocarpus opulifolius 'Monlo'</i>	Diabolo Ninebark	#3 Cont. 15-18"
12	EA	<i>Prunus laurocerasus 'Otto Luyken'</i>	Otto Luyken Laurel	#3 Cont. 15-18"
1	EA	<i>Rhododendron maximum 'Roseum'</i>	Pink Maximum Rhododendron	#3 Cont. 18-24"
96		total shrubs		
Grasses, Groundcovers, & Perennials				
44	EA	<i>Carex appalachica</i>	Appalachian Sedge	#1 Cont. min. 6" well rooted
10	EA	<i>Delosperma 'Wheels of Wonder-Fire Wonder'</i>	Fire Wonder Ice Plant	#1 Cont. min. 6" well rooted
14	EA	<i>Echinacea purpurea 'Kim's Knee High'</i>	Kim's Knee High Purple Coneflower	#1 Cont. min. 6" well rooted
9	EA	<i>Hakonechloa macra 'Aureola'</i>	Golden Japanese Forest Grass	#1 Cont. min. 9" well rooted
7	EA	<i>Heuchera x 'Plum Pudding'</i>	Plum Pudding Coral Bells	#1 Cont. min. 6" well rooted
3	EA	<i>Hosta 'Halcyon'</i>	Halcyon Hosta	#1 Cont. min. 9" well rooted
36	EA	<i>Hypericum x inodorum 'KOLSAN'</i>	Floralberry Sangria St. John's Wort	#1 Cont. 4-6"
11	EA	<i>Iris sibirica 'Caesar's Brother'</i>	Caesar's Brother Siberian Iris	#1 Cont. 2-3 fan. well rooted
7	EA	<i>Juncus effusus</i>	Soft Rush	#1 Cont. 9-12" top growth
12	EA	<i>Nepeta racemosa 'Walker's Low'</i>	Walker's Low Catmint	#1 Cont. min. 6" well rooted
273	EA	<i>Ophiopogon japonicus</i>	Mondo Grass	#1 Cont. 4-6"
6	EA	<i>Pennisetum alopecuroides 'Hameln'</i>	Hameln Fountain Grass	#1 Cont. 9-12" top growth
12	EA	<i>Polystichum acrostichoides</i>	Christmas Fern	#1 Cont. min. 9" well rooted
8	EA	<i>Rudbeckia 'Little Goldstar'</i>	Little Goldstar Black-eyed Susan	#1 Cont. min. 6" well rooted
452		total Grasses, Groundcovers, & Perennials		

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1 South Wilmington Street Raleigh, North Carolina



I-40 Welcome Center  
Haywood Co.  
Site/Landscape Development Plans

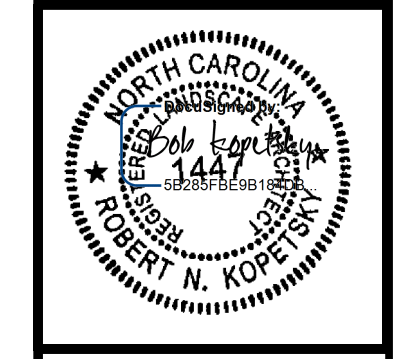
<b>Rest Area Project Managers</b>  <b>NCDOT Rest Area Section</b>  Roadside Environmental Unit 1557 Mail Service Center Raleigh, North Carolina 27699-1557 Office (919) 707-2920 Fax (919) 715-2554	<b>Landscape Architect &amp; Site Development</b>  <b>NCDOT Aesthetic Engineering Section</b>  Roadside Environmental Unit 1557 Mail Service Center Raleigh, North Carolina 27699-1557 Office (919) 707-2920 Fax (919) 715-2554	<b>Registered Landscape Architect</b>    <b>Consulting Architecture Design Firm</b>  <b>Clark Patterson Lee</b>  6302 Fairview Rd, Suite 102 Charlotte, NC, 28210 Office (980) 275-5892	<b>Mechanical/Elec/Plumb.:</b>  <b>Clark Patterson Lee</b>  <b>Structural:</b>  <b>Clark Patterson Lee</b>
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Plans Drawn By:	ROPETSKY
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Date:	7 / 31 / 18
Letting Date:	
2018 Standard Specifications	
Sheet Description:	TITLE SHEET
Sheet #:	LT



STATE	NC	F.P. #		SHEET #	2 of 15
WBS #	51213.061	F.A. Project #		Description	P.E.
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	51213.062				CONST.

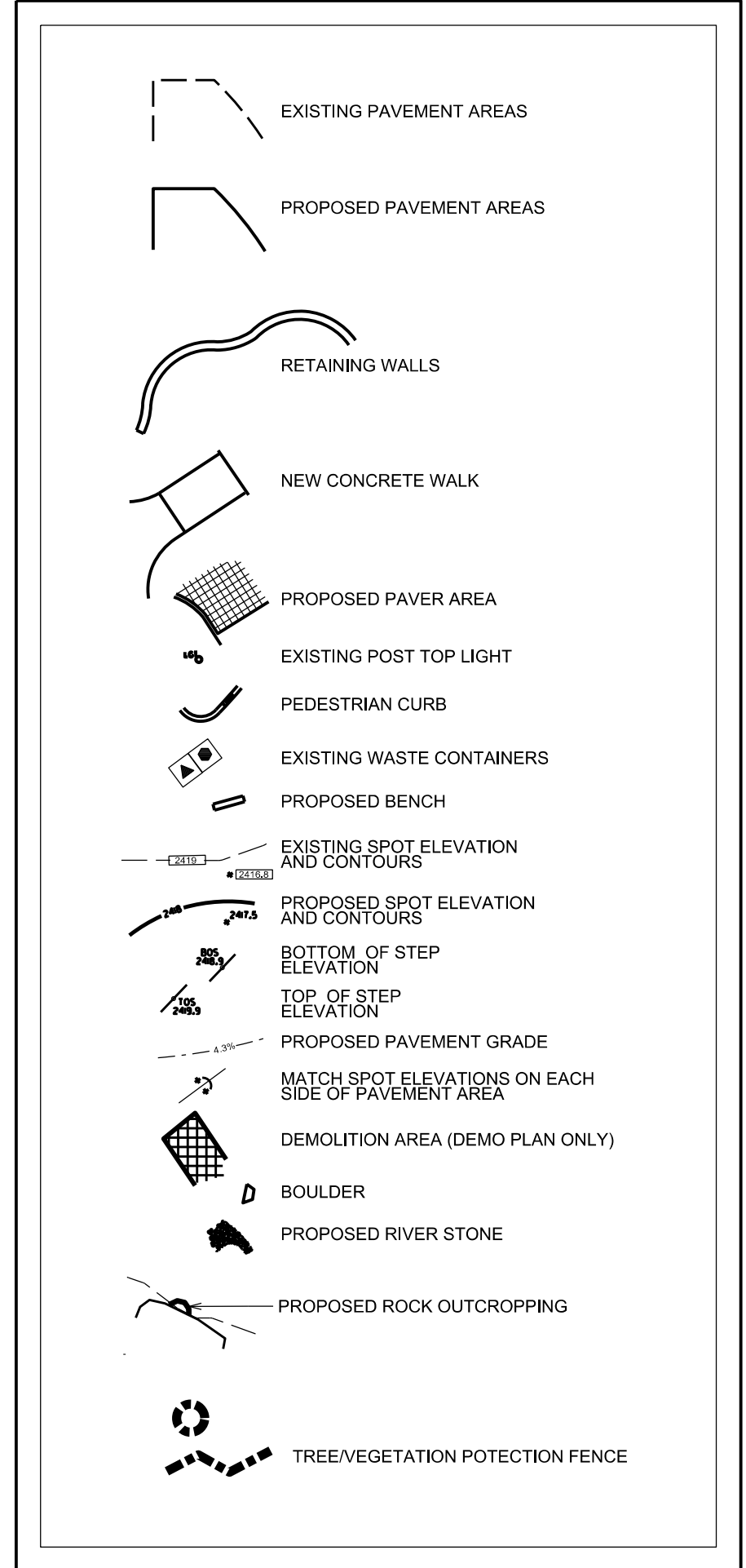
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 Division of Highways  
 1 South Wilmington Street Raleigh, North Carolina



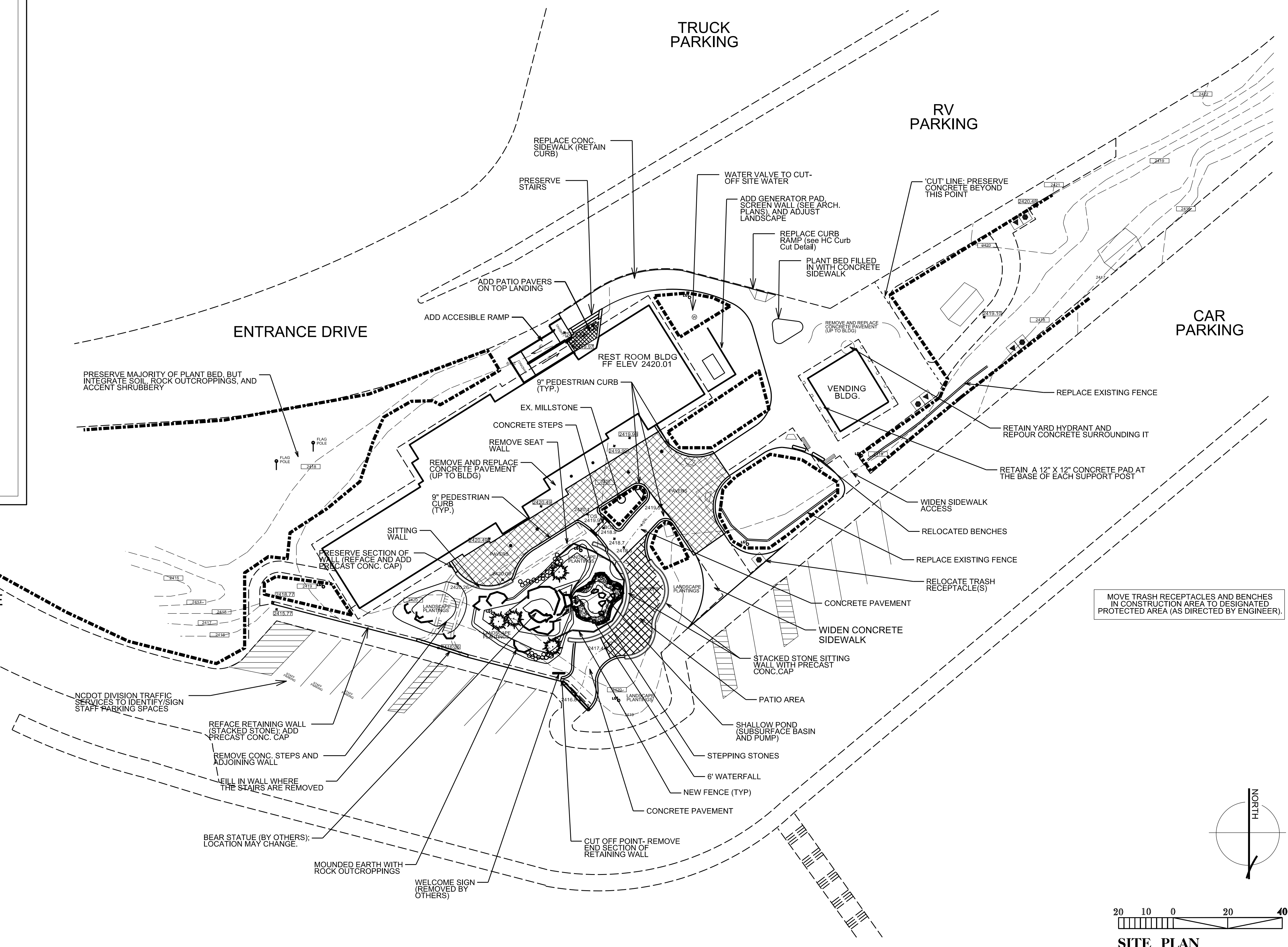
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 Haywood Co.  
 Site/Landscape Development Plans

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Sheet Description:	SITE PLAN
Sheet #:	L2

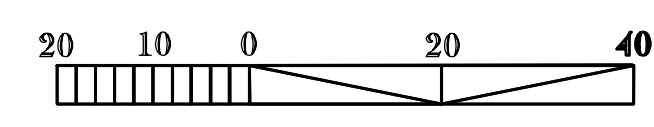
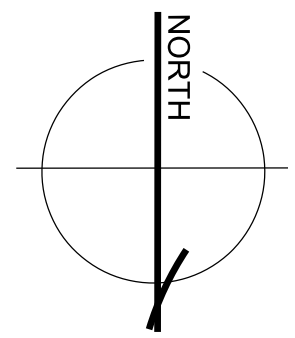
**KEY**



TREE PROTECTION FENCE SHOULD BE IN PLACE PRIOR TO ANY SITE DEMOLITION OR CONSTRUCTION WORK. THE FENCE SHALL BE KEPT ERECT AND IN PLACE THROUGHOUT THE DURATION OF THE PROJECT



MOVE TRASH RECEPTACLES AND BENCHES IN CONSTRUCTION AREA TO DESIGNATED PROTECTED AREA (AS DIRECTED BY ENGINEER).

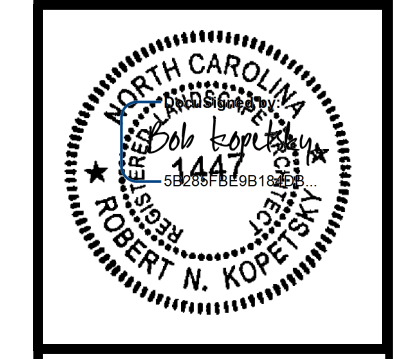


**SITE PLAN**



STATE NC	F.P.P. #	SHEET # 3 of 15
51213.061	F.A. Project #	Description
51213.062		P.E.
		RW
		CONST.

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 Division of Highways  
 1 South Wilmington Street Raleigh, North Carolina

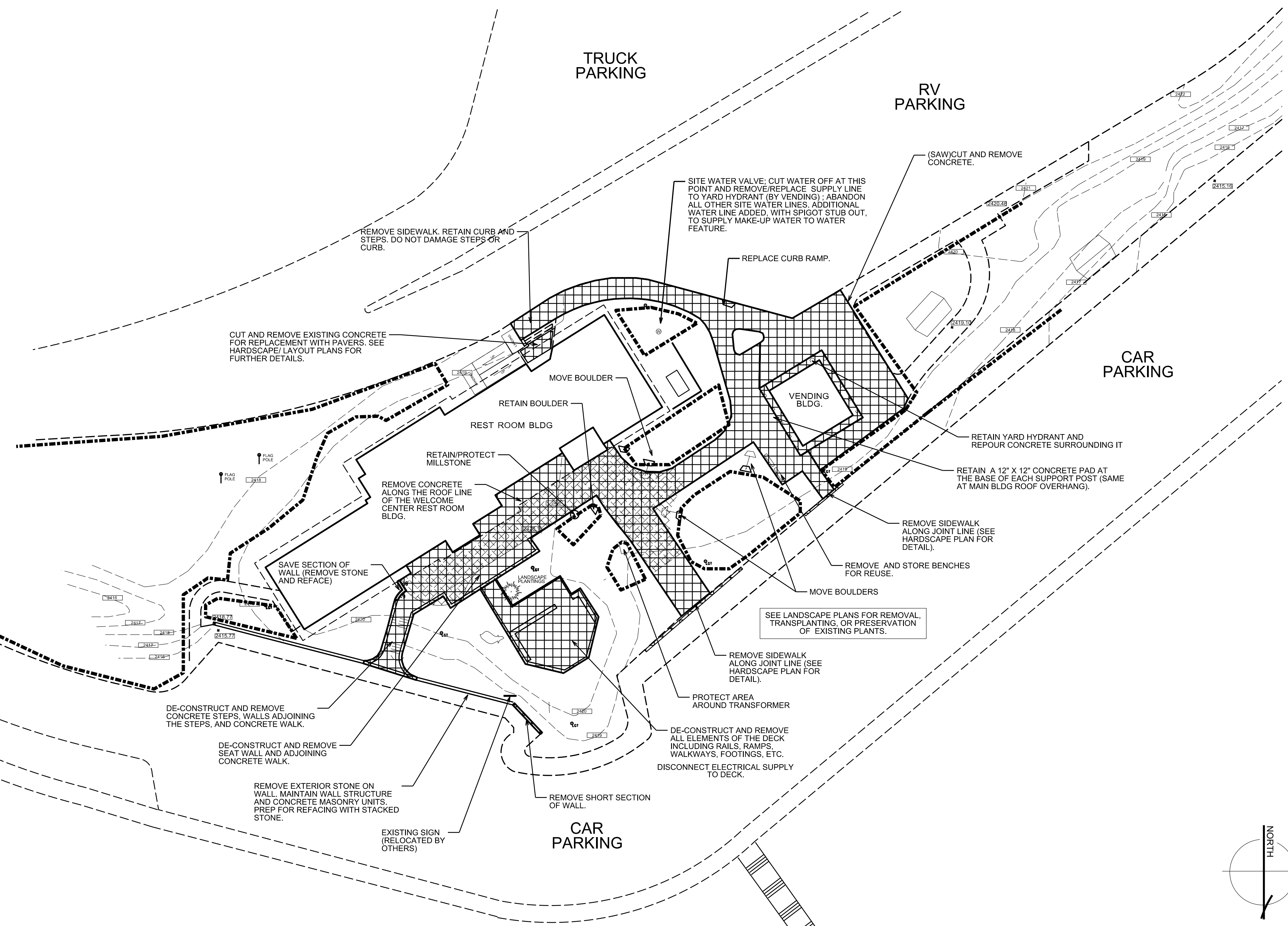


I-40 Welcome Center  
 Haywood Co.  
 Site/Landscape Development Plans

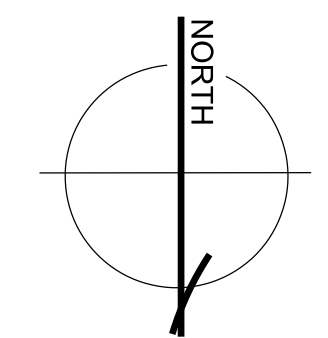
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Date	7 / 31 / 18
Letting Date	
2018 Standard Specifications	
Sheet Description	DEMOLITION PLAN
Sheet #	L3

**KEY**

- EXISTING PAVEMENT AREAS
- PROPOSED PAVEMENT AREAS
- RETAINING WALLS
- NEW CONCRETE WALK
- PROPOSED PAVER AREA
- EXISTING POST TOP LIGHT
- PEDESTRIAN CURB
- EXISTING WASTE CONTAINERS
- PROPOSED BENCH
- EXISTING SPOT ELEVATION AND CONTOURS
- PROPOSED SPOT ELEVATION AND CONTOURS
- BOTTOM OF STEP ELEVATION
- TOP OF STEP ELEVATION
- PROPOSED PAVEMENT GRADE
- MATCH SPOT ELEVATIONS ON EACH SIDE OF PAVEMENT AREA
- DEMOLITION AREA (DEMO PLAN ONLY)
- BOULDER
- PROPOSED RIVER STONE
- PROPOSED ROCK OUTCROPPING
- TREE/VEGETATION PROTECTION FENCE



PRIOR TO DEMOLITION, STAKE EXISTING WALKS WHERE ALIGNMENT WILL BE REPLICATED; MAINTAIN STAKES DURING CONSTRUCTION FOR FUTURE REFERENCE.

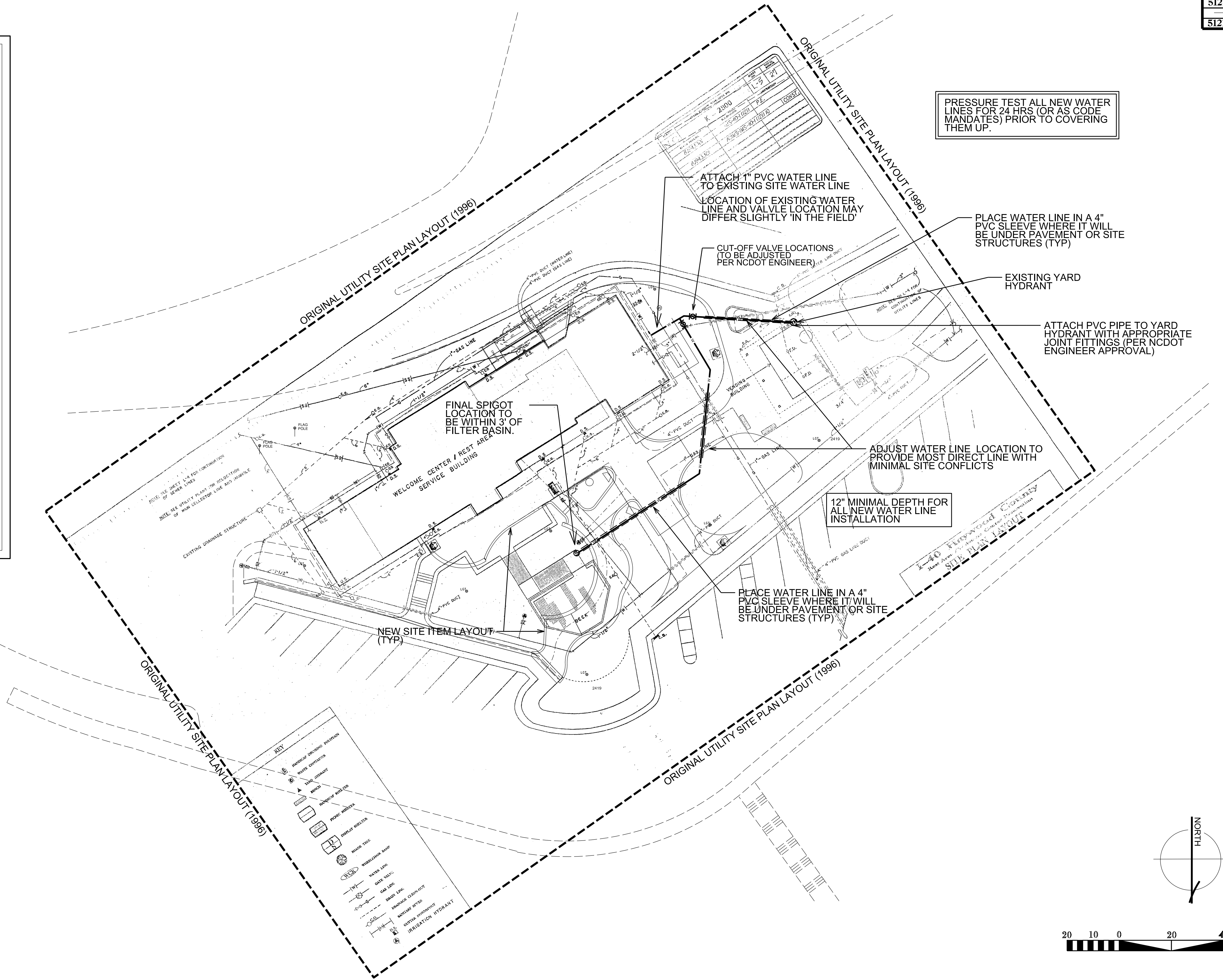




STATE NC	F.P. #	SHEET # 4 of 15
51213.061	F.A. Project #	Description
51213.062		P.E.
		RW
		CONST.

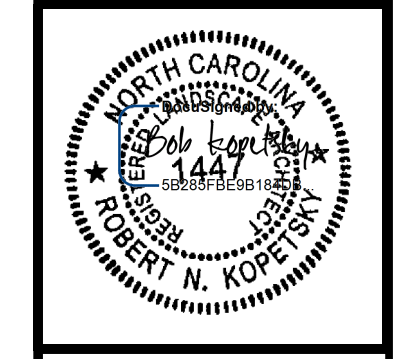
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	PROPOSED PAVEMENT AREAS
	RETAINING WALLS
	NEW CONCRETE WALK
	EXISTING POST TOP LIGHT
	PEDESTRIAN CURB
	EXISTING WASTE CONTAINERS
	PROPOSED BENCH
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	PROPOSED SPOT ELEVATION AND CONTOURS
	BOTTOM OF STEP ELEVATION
	TOP OF STEP ELEVATION
	PROPOSED PAVEMENT GRADE
	MATCH SPOT ELEVATIONS ON EACH SIDE OF PAVEMENT AREA
	DEMOLITION AREA (DEMO PLAN ONLY)
	PROPOSED SPIGOT (SEE DETAIL)
	EXISTING YARD HYDRANT
	PROPOSED CUT-OFF VALVE (SEE DETAIL)
	PROPOSED 1" PVC WATER LINE
	PROPOSED 4" PVC SLEEVE

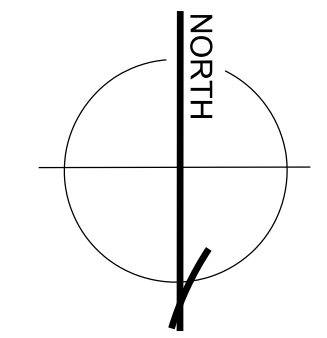


PRESSURE TEST ALL NEW WATER LINES FOR 24 HRS (OR AS CODE MANDATES) PRIOR TO COVERING THEM UP.

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 Site/Landscape Development Plans







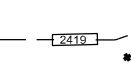
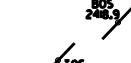




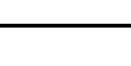









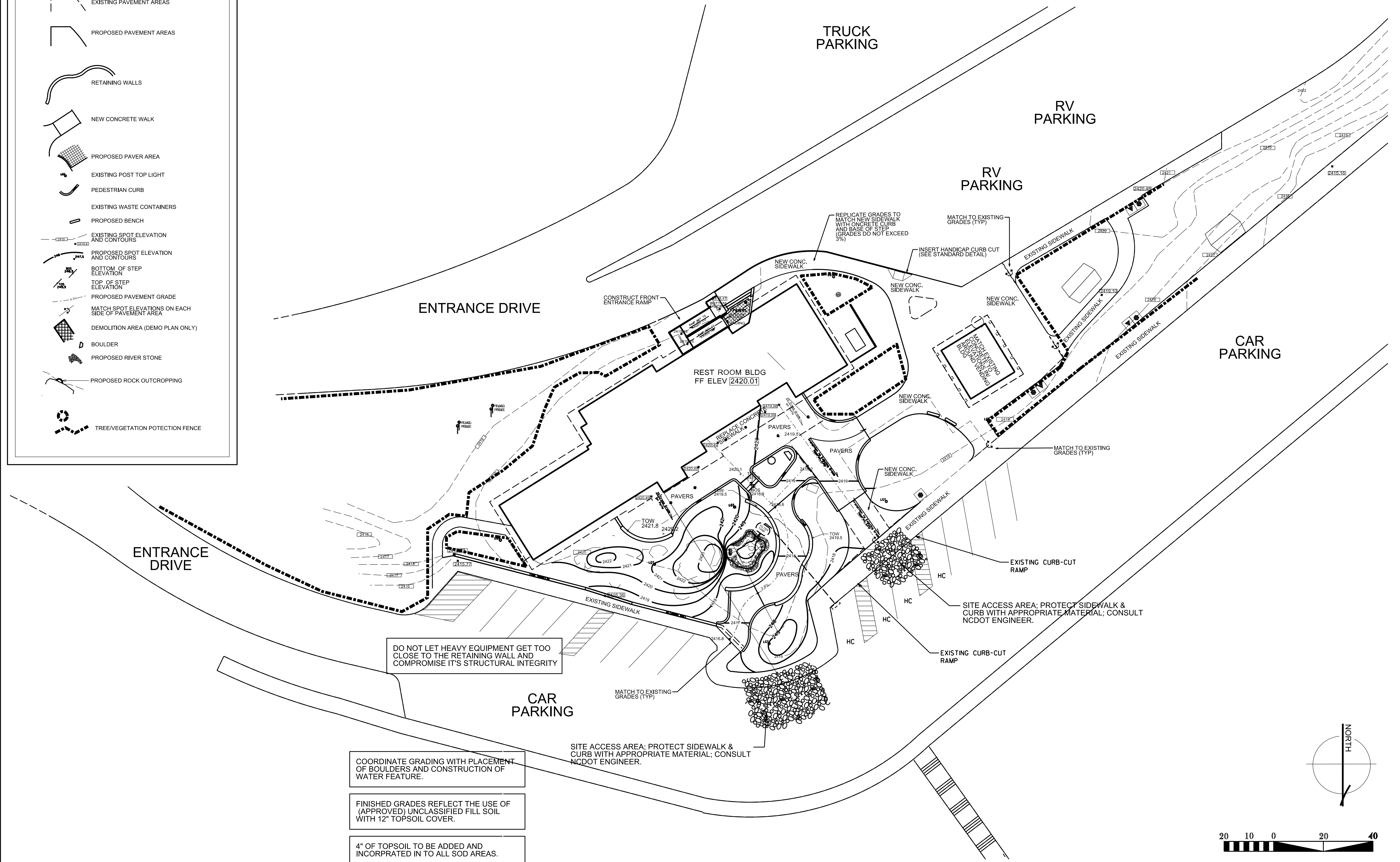
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Sheet #:	L4



STATE NC	F.P. #	SHEET # 5 of 15
51213.061	F.A. Project #	Description
51213.062		P.E.
		RW
		CONST.

**KEY**

-  EXISTING PAVEMENT AREAS
-  PROPOSED PAVEMENT AREAS
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-  PROPOSED PAVEMENT GRADE
-  MATCH SPOT ELEVATIONS ON EACH SIDE OF PAVEMENT AREA
-  DEMOLITION AREA (DEMO PLAN ONLY)
-  BOULDER
-  PROPOSED RIVER STONE
-  PROPOSED ROCK OUTCROPPING
-  TREE/VEGETATION PROTECTION FENCE



DO NOT LET HEAVY EQUIPMENT GET TOO CLOSE TO THE RETAINING WALL AND COMPROMISE ITS STRUCTURAL INTEGRITY

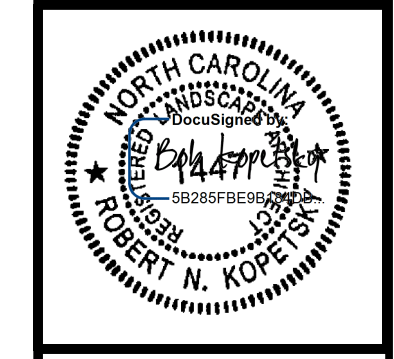
COORDINATE GRADING WITH PLACEMENT OF BOULDERS AND CONSTRUCTION OF WATER FEATURE.

FINISHED GRADES REFLECT THE USE OF (APPROVED) UNCLASSIFIED FILL SOIL WITH 12" TOPSOIL COVER.

4" OF TOPSOIL TO BE ADDED AND INCORPRATED IN TO ALL SOD AREAS.

SITE ACCESS AREA; PROTECT SIDEWALK & CURB WITH APPROPRIATE MATERIAL; CONSULT NCDOT ENGINEER.

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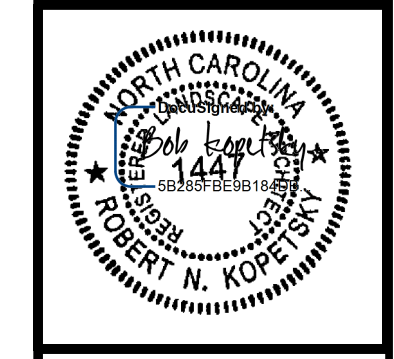
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 Haywood Co.  
 Site/Landscape Development Plans

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 Letting Date:  
 2018 Standard Specifications  
 Sheet Description: GRADING-DRAINAGE  
 Sheet #: 15



STATE	NC	F.P. #		SHEET #	6 of 15
WSS #	51213.061	F.A. Project #		Description	P.E.
					RW
	51213.062				CONST.

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 Division of Highways  
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I-40 Welcome Center  
 Haywood Co.  
 Site/Landscape Development Plans

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Letting Date:	
2018 Standard Specifications	
Sheet Description:	LAYOUT-DIMENSION
Sheet #:	L6

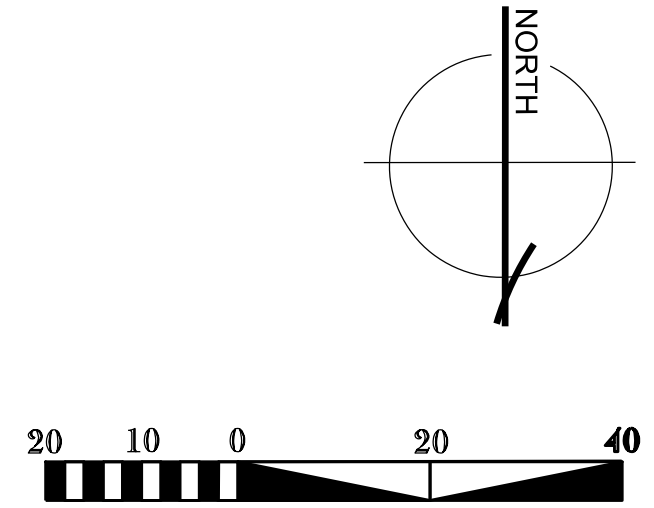
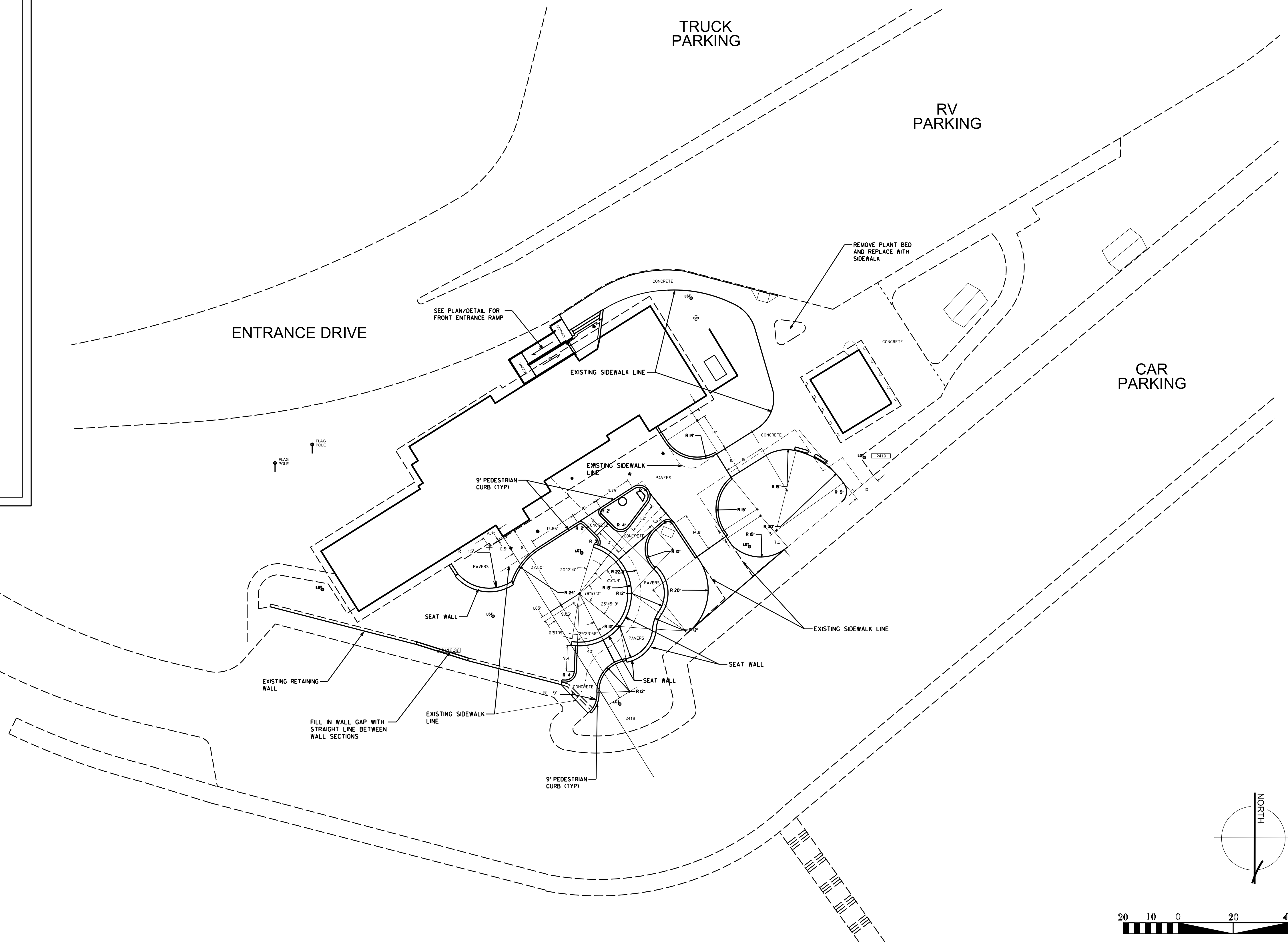
**KEY**

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- BOULDER
- PROPOSED RIVER STONE
- PROPOSED ROCK OUTCROPPING
- TREE/VEGETATION PROTECTION FENCE

TREE PROTECTION FENCE IS NOT SHOWN ON THIS SHEET, BUT SHOULD BE KEPT ERECT AND IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.

**NOTES**

- PRIOR TO DEMOLITION, STAKE EXISTING WALKS WHERE ALIGNMENT WILL BE REPLICATED; MAINTAIN STAKES DURING CONSTRUCTION FOR FUTURE REFERENCE.
- SLIGHT FIELD ADJUSTMENTS MAY BE NECESSARY TO PRESERVE OR MATCH EXISTING SITE ELEMENTS; CONFIRM ALL ADJUSTMENTS WITH NCDOT ENGINEER.
- RADIUS NOTATIONS ARE FOR THE EXTERIOR RADII, UNLESS OTHERWISE NOTED.
- CROSS REFERENCE TO OTHER PLAN/DETAILS, SPOT ELEVATIONS AND SITE ITEM PLACEMENT.




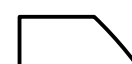


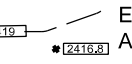









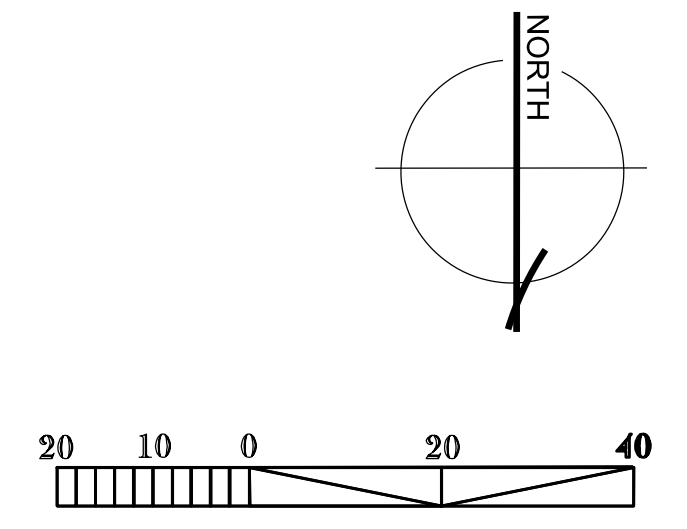
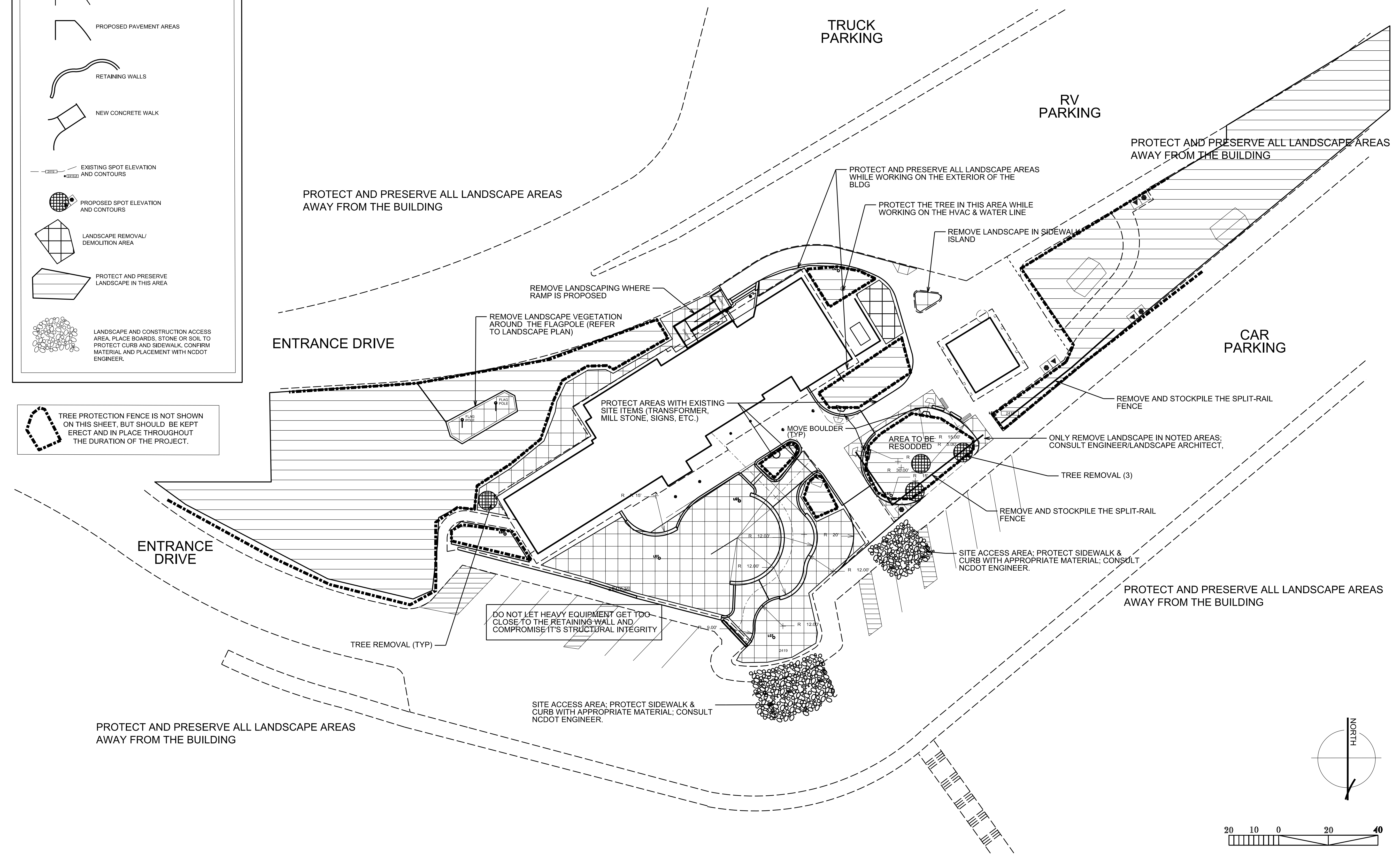


STATE NC	F.P. #	SHEET # 8 of 15
51213.061	F.A. Project #	Description
51213.062		P.E.
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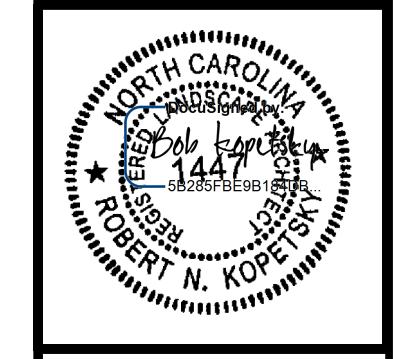
**KEY**

-  EXISTING PAVEMENT AREAS
-  PROPOSED PAVEMENT AREAS
-  RETAINING WALLS
-  NEW CONCRETE WALK
-  EXISTING SPOT ELEVATION AND CONTOURS
-  PROPOSED SPOT ELEVATION AND CONTOURS
-  LANDSCAPE REMOVAL/DEMOLITION AREA
-  PROTECT AND PRESERVE LANDSCAPE IN THIS AREA
-  LANDSCAPE AND CONSTRUCTION ACCESS AREA. PLACE BOARDS, STONE OR SOIL TO PROTECT CURB AND SIDEWALK. CONFIRM MATERIAL AND PLACEMENT WITH NCDOT ENGINEER.

 TREE PROTECTION FENCE IS NOT SHOWN ON THIS SHEET, BUT SHOULD BE KEPT ERECT AND IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.



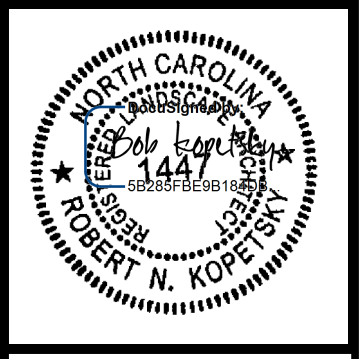
**North Carolina Department of Transportation**  
**Division of Highways**  
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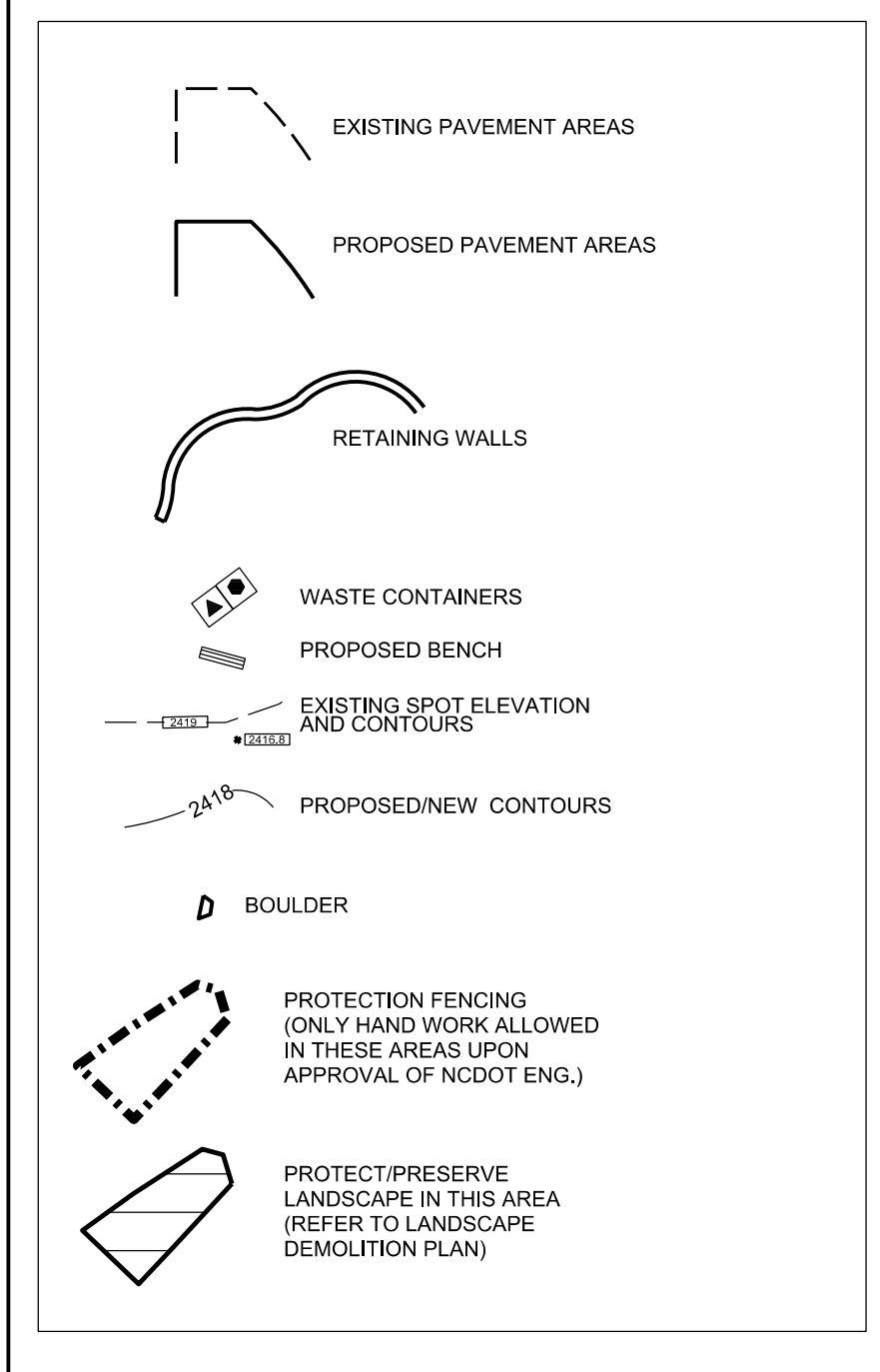
**I-40 Welcome Center**  
**Haywood Co.**  
 Site/Landscape Development Plans

Plans Drawn By:	KOPEFSKY
Scale:	AS SHOWN
Date:	7 / 31 / 18
Letting Date:	
2018 Standard Specifications	
Sheet Description:	Landscape Demolition
Sheet #:	18





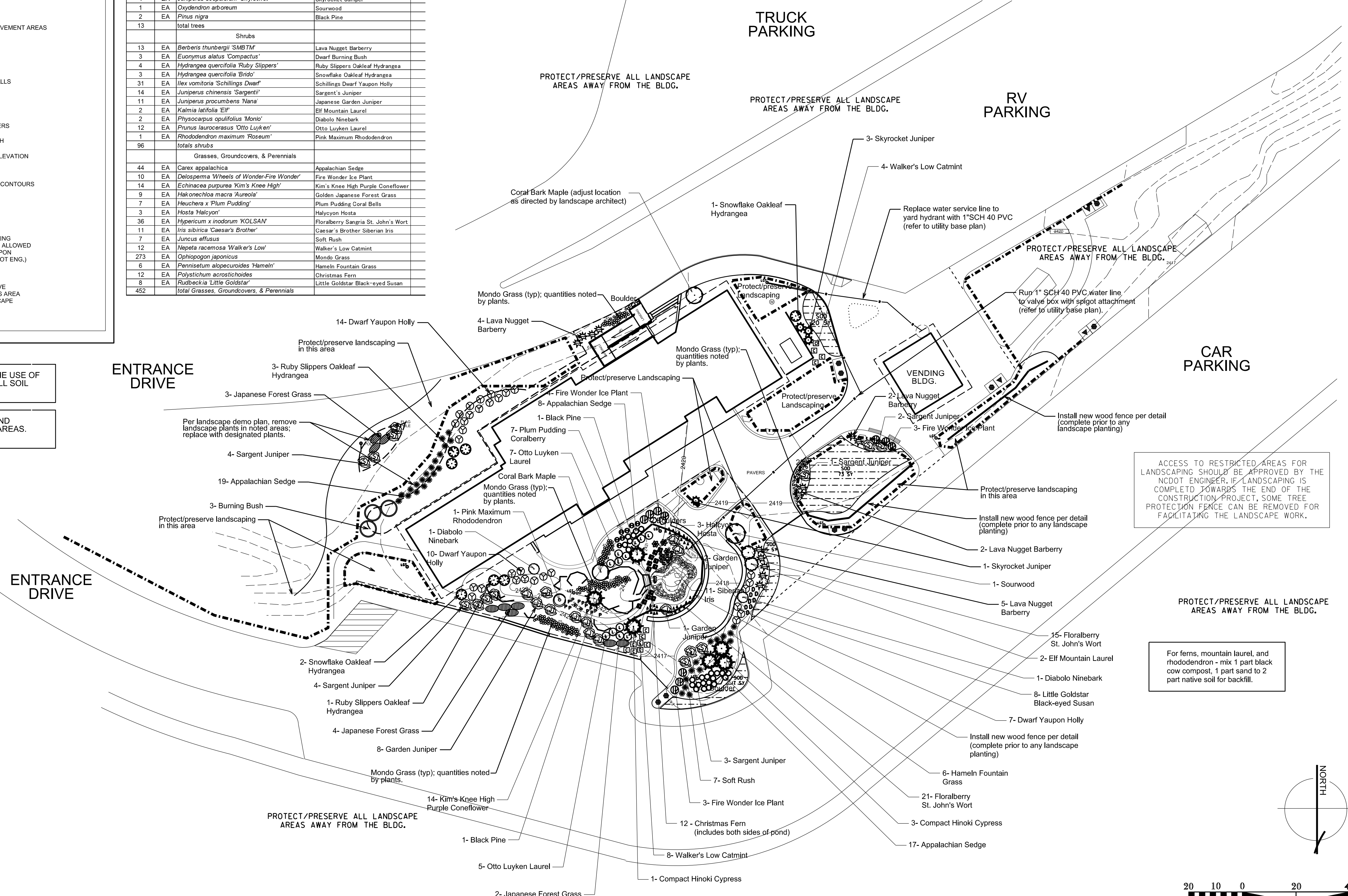
KEY



QTY.	UNIT	BOTANICAL NAME	COMMON NAME
Trees			
2	EA	<i>Acer palmatum</i> 'Sango Kaku'	Coral Bark Japanese Maple
4	EA	<i>Chamaecyparis obtusa</i> 'Compacta'	Compact Hinoki Cypress
4	EA	<i>Juniperus scopulorum</i> 'Skyrocket'	Skyrocket Juniper
1	EA	<i>Oxydendron arboreum</i>	Sourwood
2	EA	<i>Pinus nigra</i>	Black Pine
13		total trees	
Shrubs			
13	EA	<i>Berberis thunbergii</i> 'SMBTH'	Lava Nugget Barberry
3	EA	<i>Eucrymum alatum</i> 'Compactus'	Dwarf Burning Bush
4	EA	<i>Hydrangea quercifolia</i> 'Ruby Slippers'	Ruby Slippers Oakleaf Hydrangea
3	EA	<i>Hydrangea quercifolia</i> 'Bridal'	Snowflake Oakleaf Hydrangea
31	EA	<i>Ilex vomitoria</i> 'Schillings Dwarf'	Schillings Dwarf Yaupon Holly
14	EA	<i>Juniperus chinensis</i> 'Sargentii'	Sargent's Juniper
11	EA	<i>Juniperus procumbens</i> 'Nana'	Japanese Garden Juniper
2	EA	<i>Kalmia latifolia</i> 'Elf'	Elf Mountain Laurel
2	EA	<i>Physocarpus opulifolius</i> 'Mono'	Diabolo Ninebark
12	EA	<i>Prunus laurocerasus</i> 'Otto Luyken'	Otto Luyken Laurel
1	EA	<i>Rhododendron maximum</i> 'Roseum'	Pink Maximum Rhododendron
96		total shrubs	
Grasses, Groundcovers, & Perennials			
44	EA	<i>Carex appalachica</i>	Appalachian Sedge
10	EA	<i>Delosperma</i> 'Wheels of Wonder-Fire Wonder'	Fire Wonder Ice Plant
14	EA	<i>Echinacea purpurea</i> 'Kim's Knee High'	Kim's Knee High Purple Coneflower
9	EA	<i>Hakonechloa macra</i> 'Aunola'	Golden Japanese Forest Grass
7	EA	<i>Heuchera x 'Plum Pudding'</i>	Plum Pudding Coral Bells
3	EA	<i>Hosta 'Halcyon'</i>	Halcyon Hosta
36	EA	<i>Hypericum x inodorum</i> 'KOLSAN'	Floralberry Sangria St. John's Wort
11	EA	<i>Iris sibirica</i> 'Caesar's Brother'	Caesar's Brother Siberian Iris
7	EA	<i>Juncus effusus</i>	Soft Rush
12	EA	<i>Nepeta racemosa</i> 'Walker's Low'	Walker's Low Catmint
273	EA	<i>Ophiopogon japonicus</i>	Mondo Grass
6	EA	<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Fountain Grass
12	EA	<i>Polystichum acrostichoides</i>	Christmas Fern
8	EA	<i>Rudbeckia 'Little Goldstar'</i>	Little Goldstar Black-eyed Susan
452		total Grasses, Groundcovers, & Perennials	

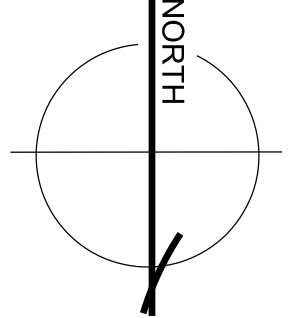
FINISHED GRADES REFLECT THE USE OF (APPROVED) UNCLASSIFIED FILL SOIL WITH 12" TOPSOIL COVER.

4" OF TOPSOIL TO BE ADDED AND INCORPORATED IN TO ALL SOD AREAS.



ACCESS TO RESTRICTED AREAS FOR LANDSCAPING SHOULD BE APPROVED BY THE NCDOT ENGINEER. IF LANDSCAPING IS COMPLETED TOWARDS THE END OF THE CONSTRUCTION PROJECT, SOME TREE PROTECTION FENCE CAN BE REMOVED FOR FACILITATING THE LANDSCAPE WORK.

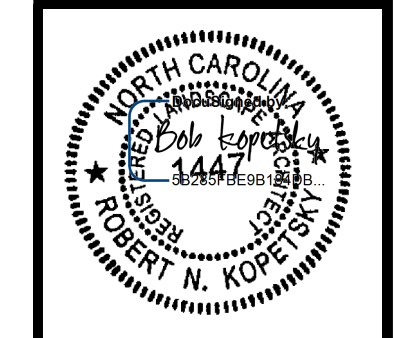
For ferns, mountain laurel, and rhododendron - mix 1 part black cow compost, 1 part sand to 2 part native soil for backfill.





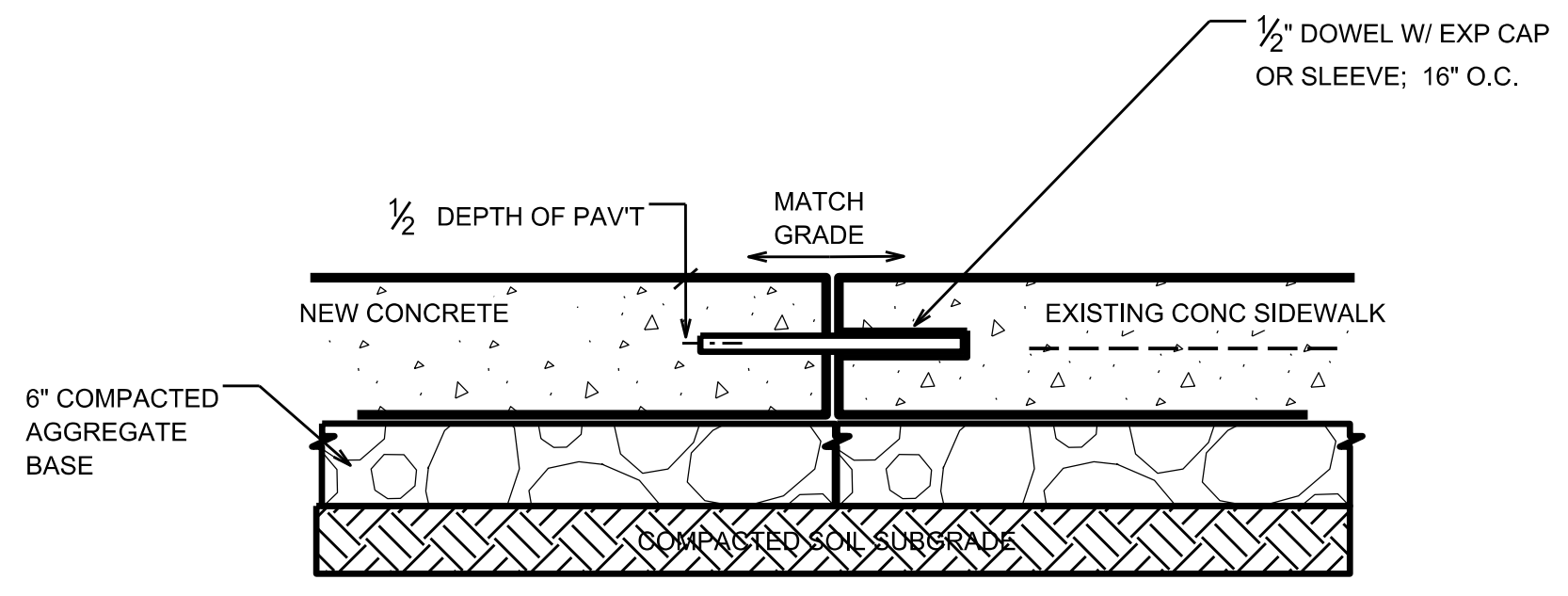
STATE	NC	F.P.P. #		SHEET #	10 of 15
WSS #	51213.061	F.A. Project #		Description	P.E.
					RV
	51213.062				CONST.

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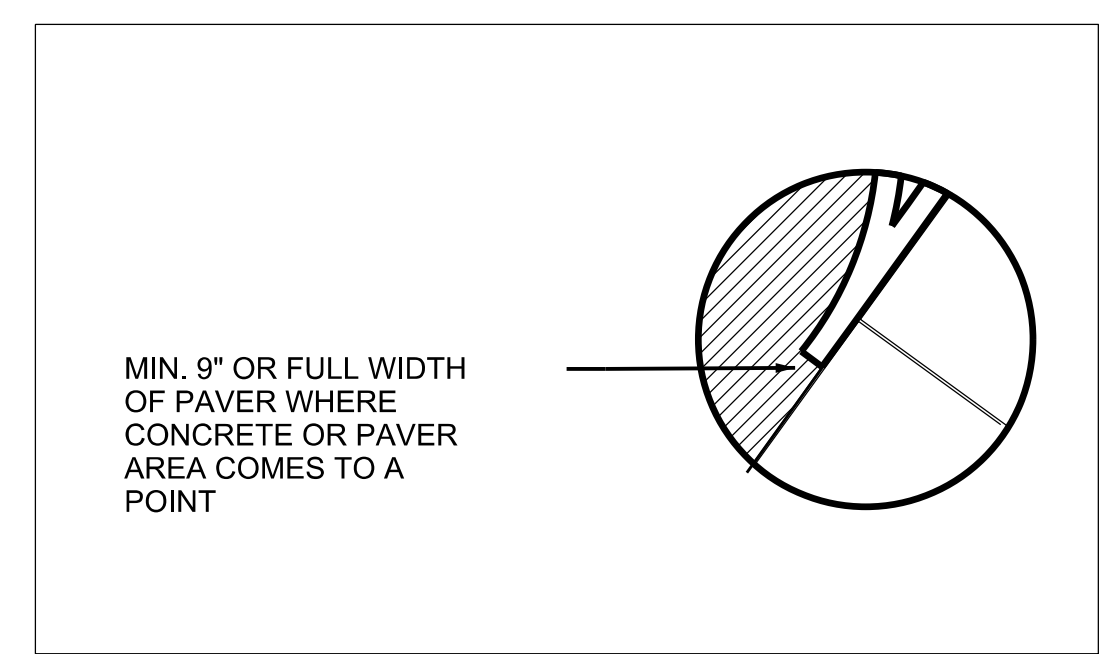


I-40 Welcome Center  
 Haywood Co.  
 Site/Landscape Development Plans

Plans Drawn By:	KOPETSKY
Scale:	AS SHOWN
Date:	7 / 31 / 18
Letting Date:	
2018 Standard Specifications	
Sheet Description:	WALL & PAVEMENT DETAILS
Sheet #:	LD-1



CONC LD1  
**New Concrete Adjoining Old Concrete Walk**  
 NTS



REMOVE STONE FACIA FROM EXISTING WALL; PRESERVE WALL CMU STRUCTURE.

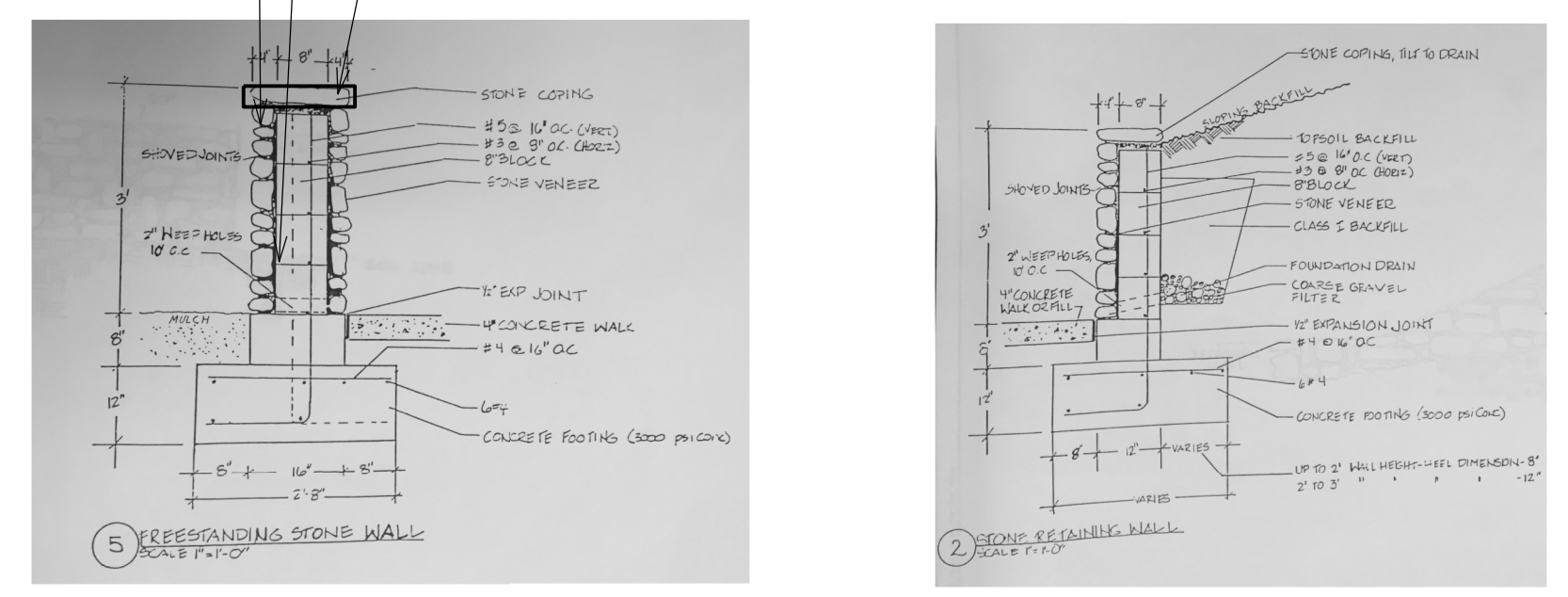
SEE "SITTING-RETAINING WALL" DETAIL FOR SPECIFIED FACIA STONE AND PRECAST COPING. APPLY AS SPEC'D.

REMOVE EXISTING STONE COPING AND APPLY 2" PRECAST CONCRETE COPING.

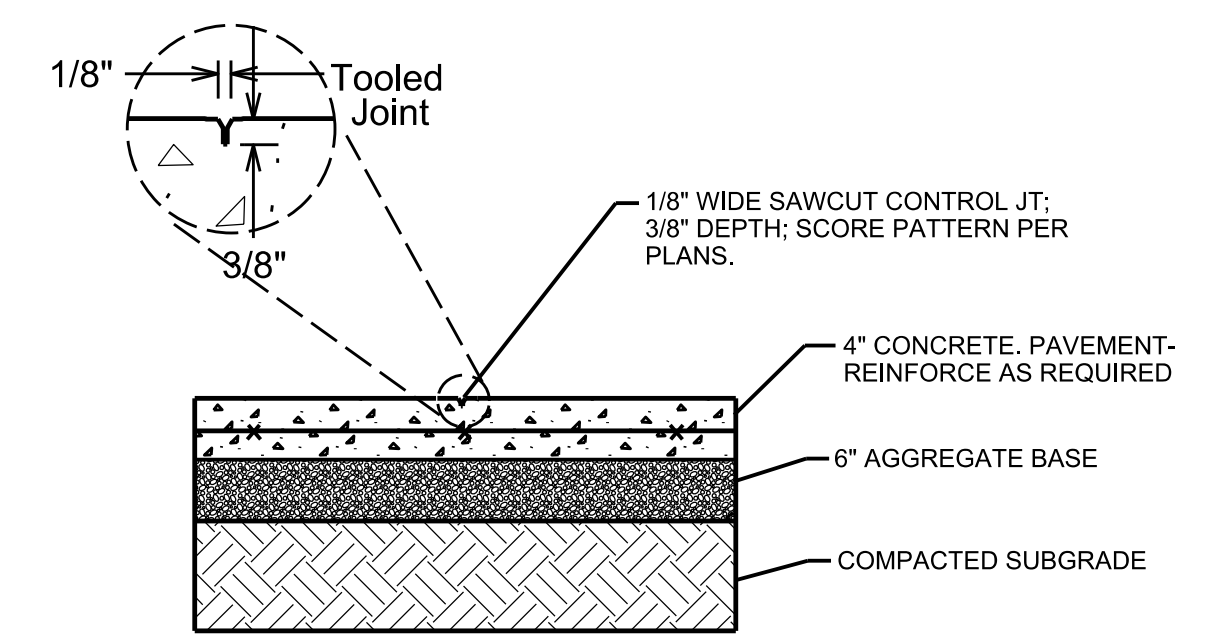
PLACE MASONRY TIES EVERY OTHER COURSE AND 16" ON CENTER; DRILL MASONRY AND APPLY WITH APPROVED MORTAR OR APPROVED CONSTRUCTION ADHESIVE.

FACIA STONE TO BE APPLIED TO ALL EXPOSED VERTICAL AREAS OF THE WALL.

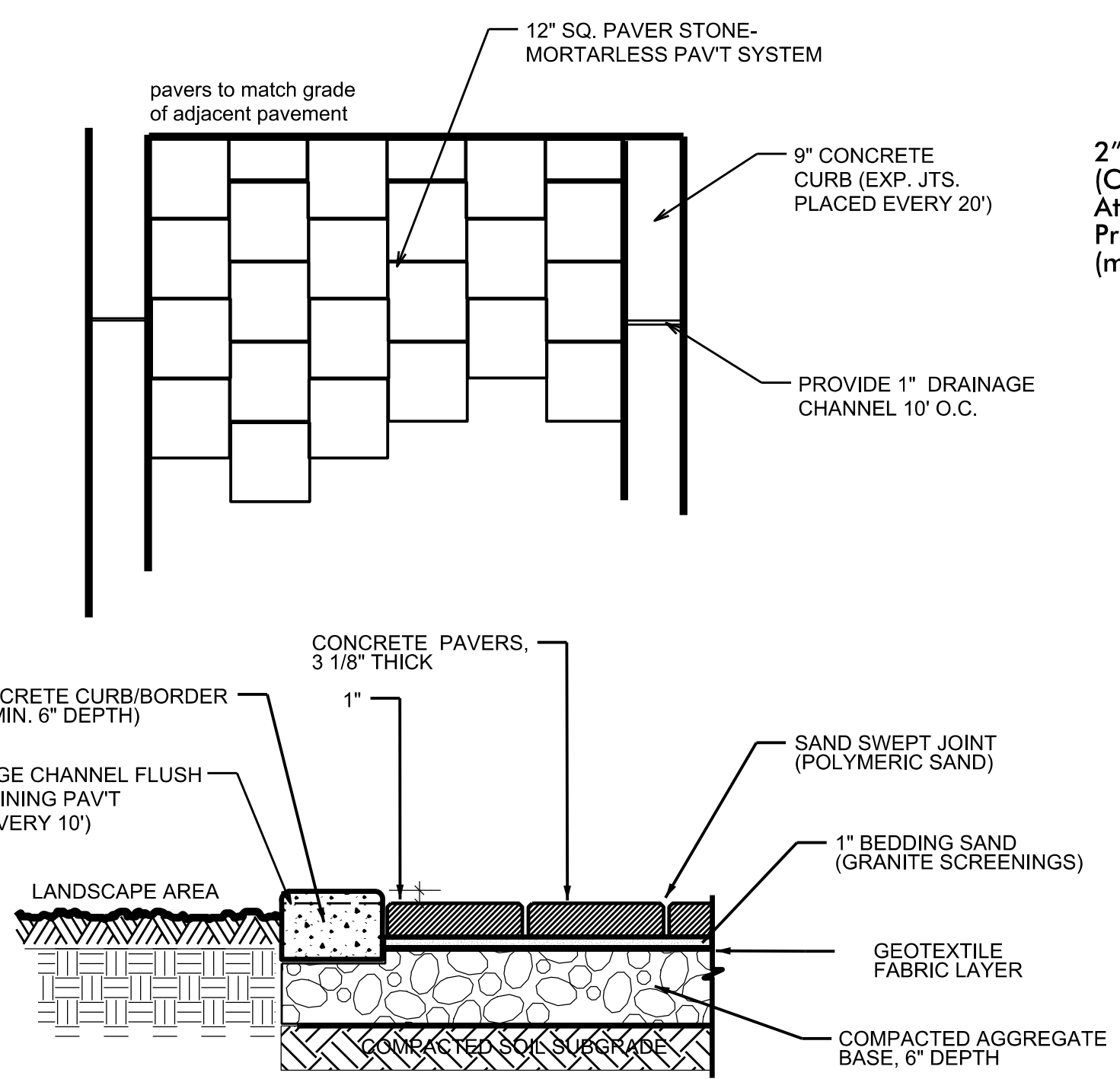
EXISTING FREESTANDING AND RETAINING WALLS SIMILAR IN REMOVING EXTERIOR STONE AND APPLYING NEW STACKED STONE.



ORIGINAL STONE WALL CONSTRUCTION DETAILS (CIRCA 1995)

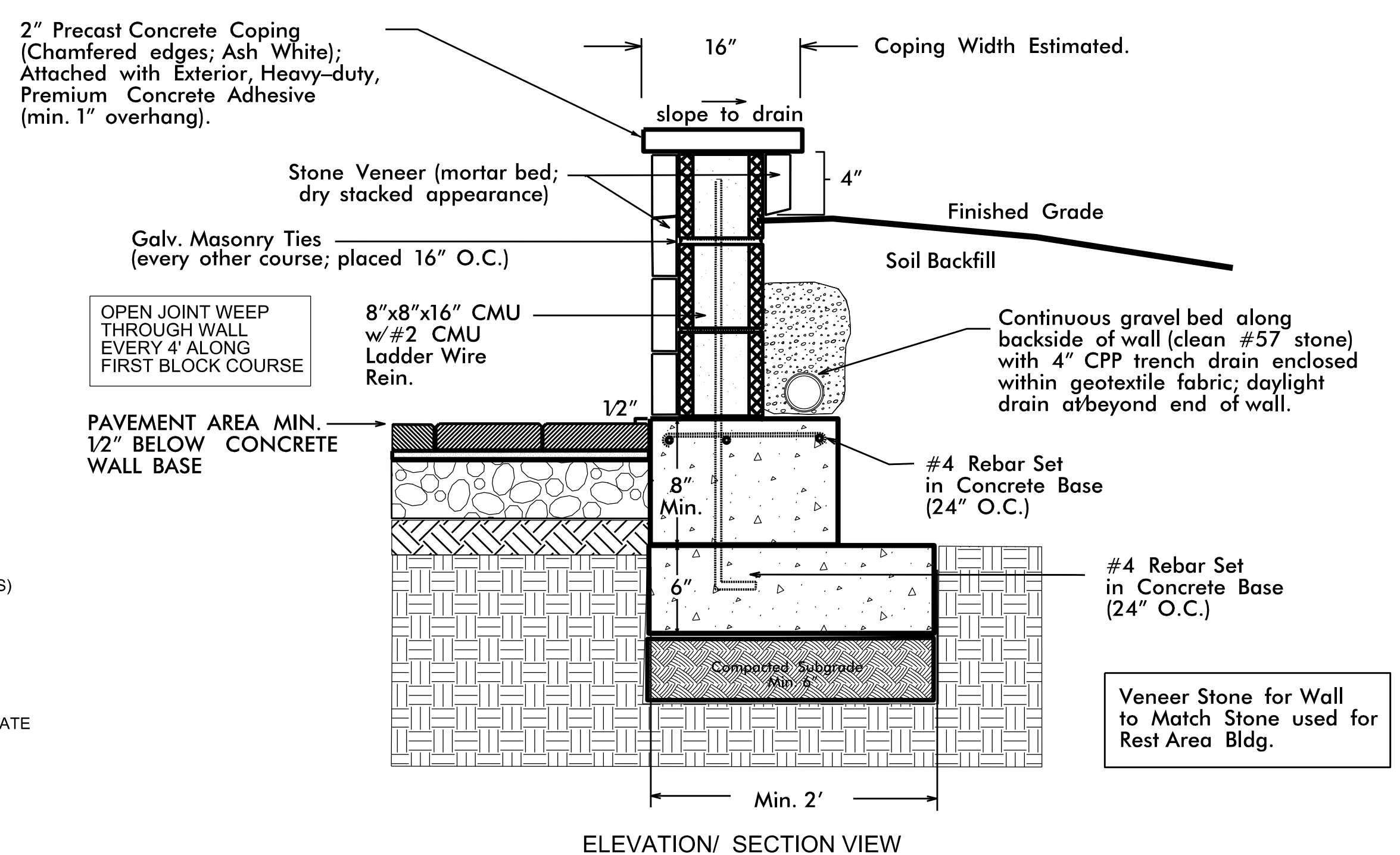


CD1 LD1  
**CONCRETE SIDEWALK - CONTROL JOINT**  
 NTS



CP LD1  
**CONCRETE PAVER DETAIL**  
**PEDESTRIAN CURB DETAIL**  
 NTS

SW1 LD1  
**EXISTING STONE WALL(S)- REFACED**  
 NTS

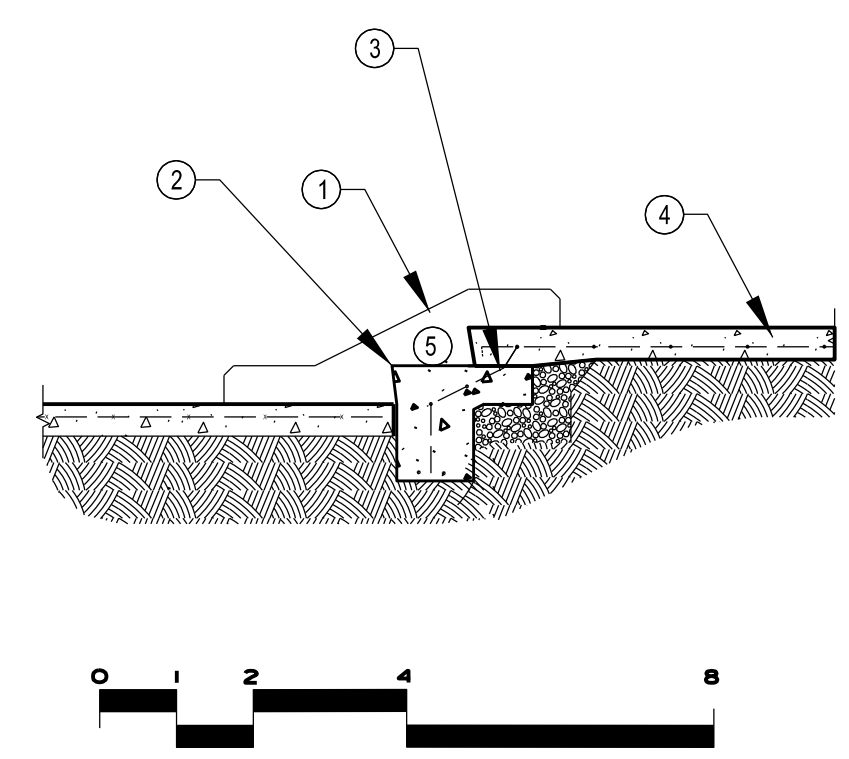


SW2 LD1  
**SITTING- RETAINING WALL**  
 NTS

- GENERAL NOTES:
- 1) SIDEWALK AS SPECIFIED BY SITE/HARDSCAPE PLANS.
  - 2) CONCRETE PAVER AREA AS SHOWN WITH 9" CAST IN PLACE CONCRETE BORDER. PAVERS TO BE A BLEND & COLOR AND SIZE AS SPECIFIED.
  - 3) STANDARD 4" THICK CONCRETE SIDEWALK; CONTROL AND EXPANSION JOINTS AS SHOWN ON PLANS.

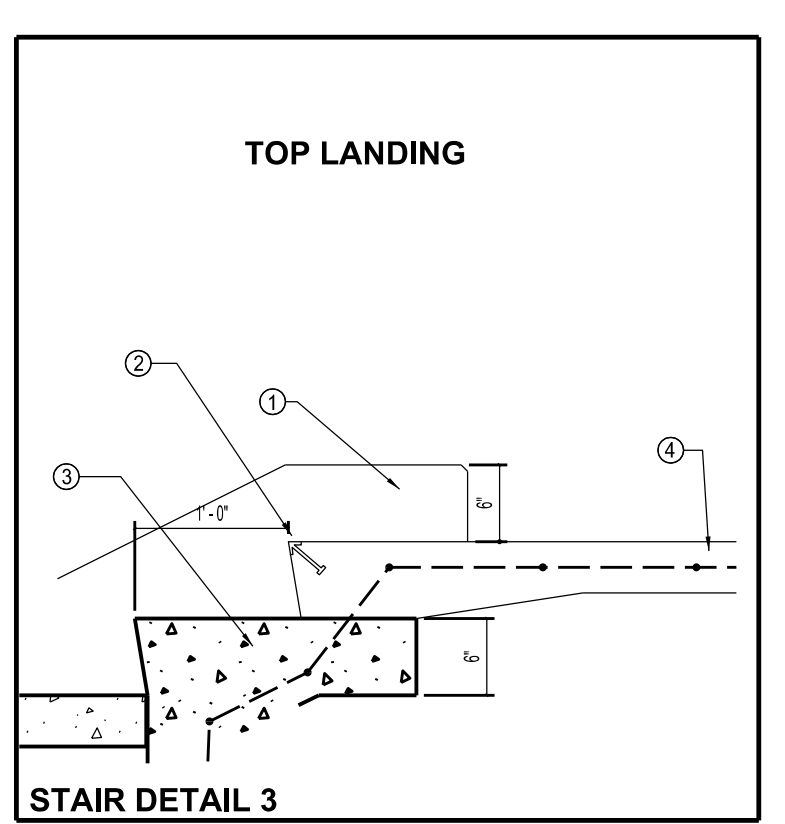
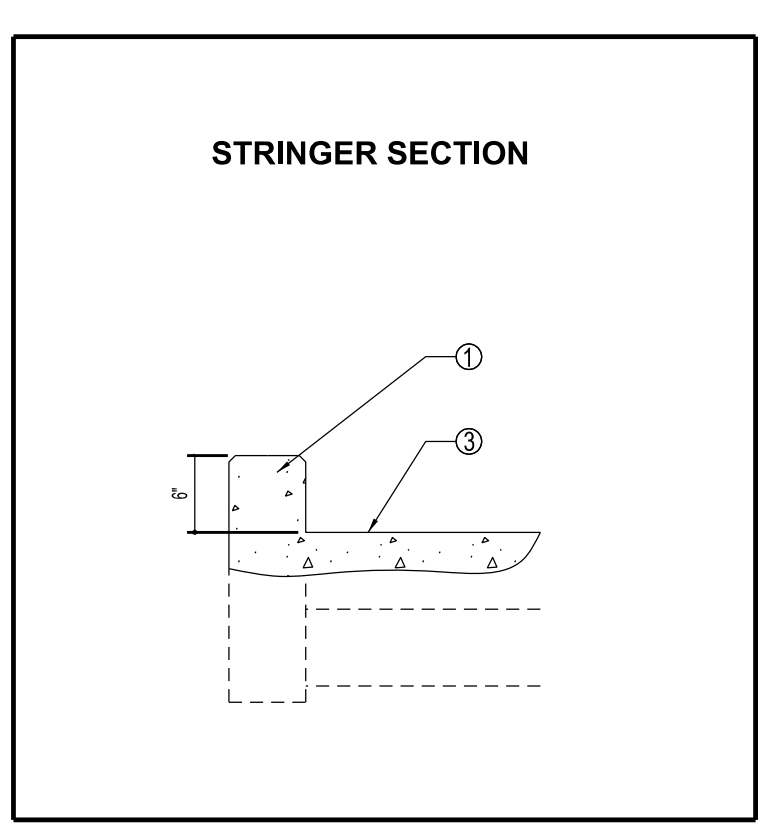
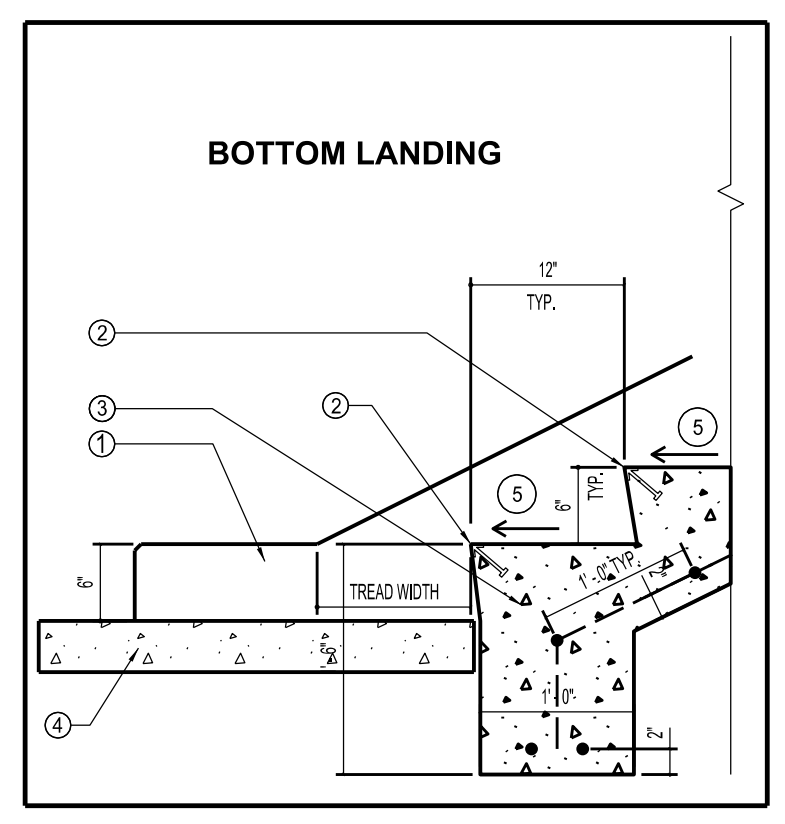


STATE NC	F.P.P. #	SHEET # 11 of 15
WSS # 51213.061	F.A. Project #	Description
51213.062		P.E.
		RW
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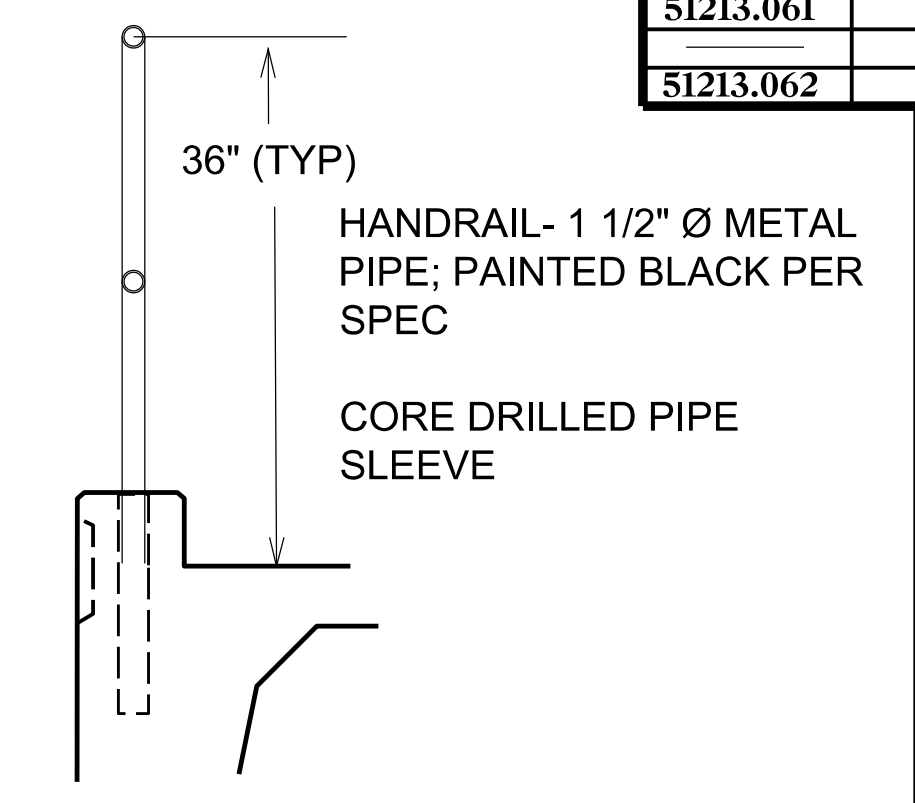


- ① CONCRETE CURB STRINGER WITH CHAMFERED EDGES.
- ② GALVANIZED METAL NOSING, TYP. - EMBED IN CONCRETE
- ③ 6'-0" WIDE POURED IN PLACE CONCRETE STAIR WITH REINFORCING AS SHOWN. REINFORCING SHALL BE 1/2" STEEL REBAR 12" O.C. IN BOTH DIRECTIONS. REINFORCING SHALL EXTEND INTO STRINGERS. REINFORCING, NOSING AND OTHER MATERIALS INCIDENTAL TO STEP CONSTRUCTION.
- ④ 4" CONCRETE SIDEWALK TRANSITIONED TO STAIRS.
- ⑤ STEPS TO INCORPORATE 1/2" PER FT BATTER TO CREATE POSITIVE DRAINAGE ON STAIRS AND DETER STANDING WATER OR ICING CONDITIONS.

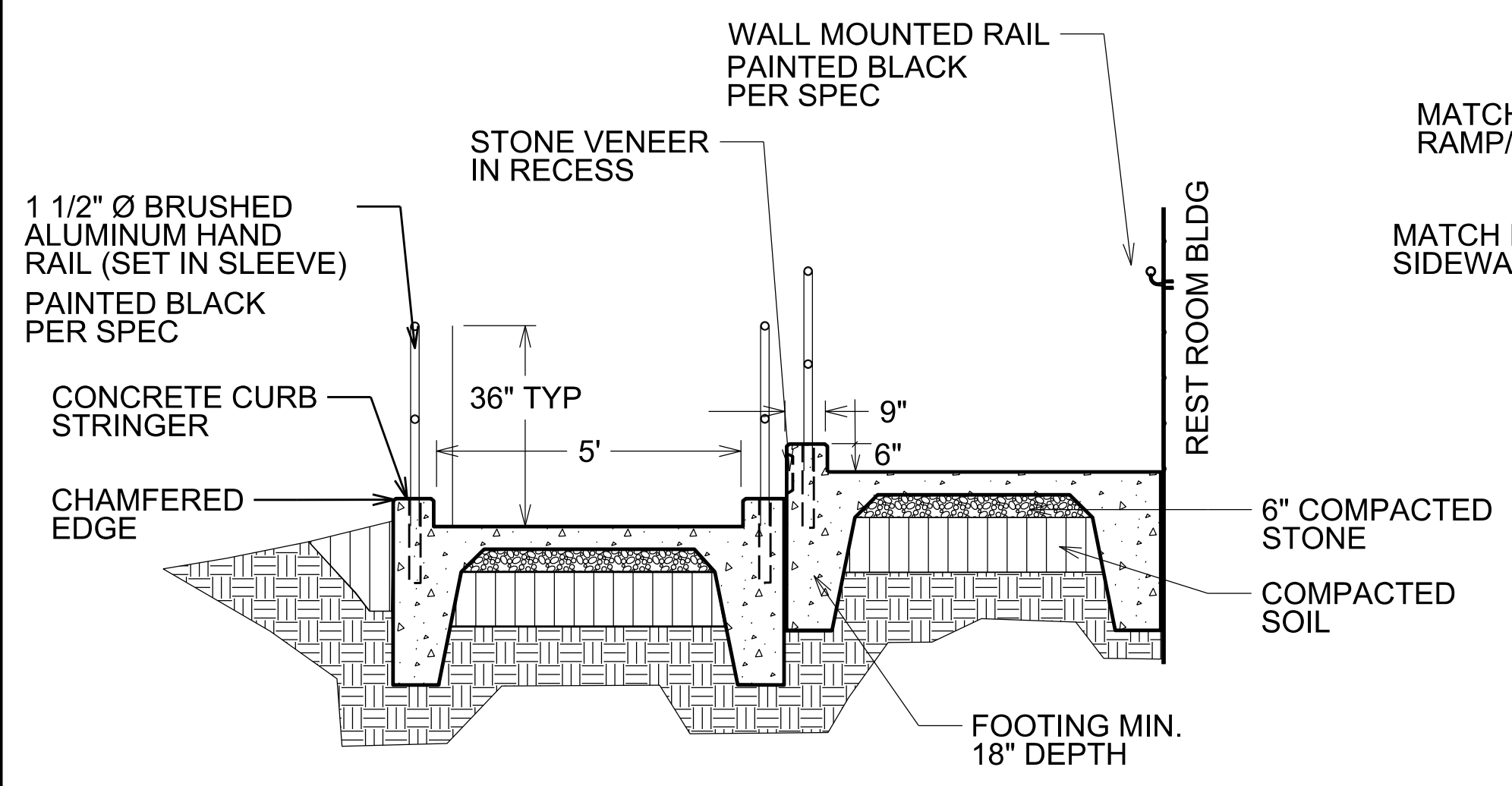
CONCRETE STEPS (NO RAIL)



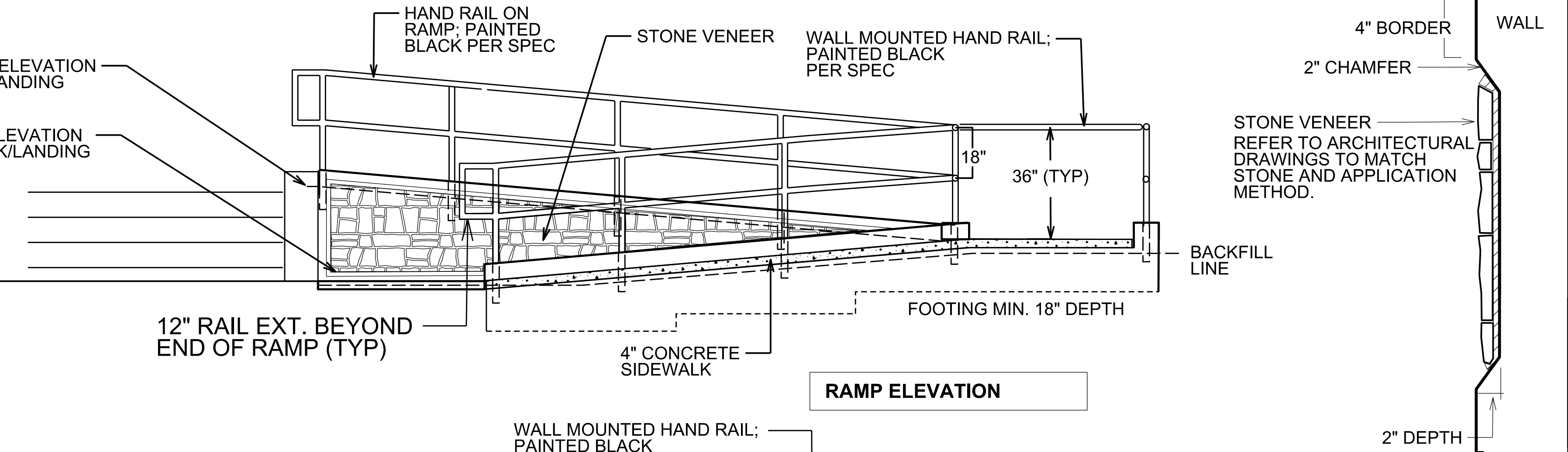
STAIR DETAIL 3



SLEEVED VERTICAL RAIL SECTION

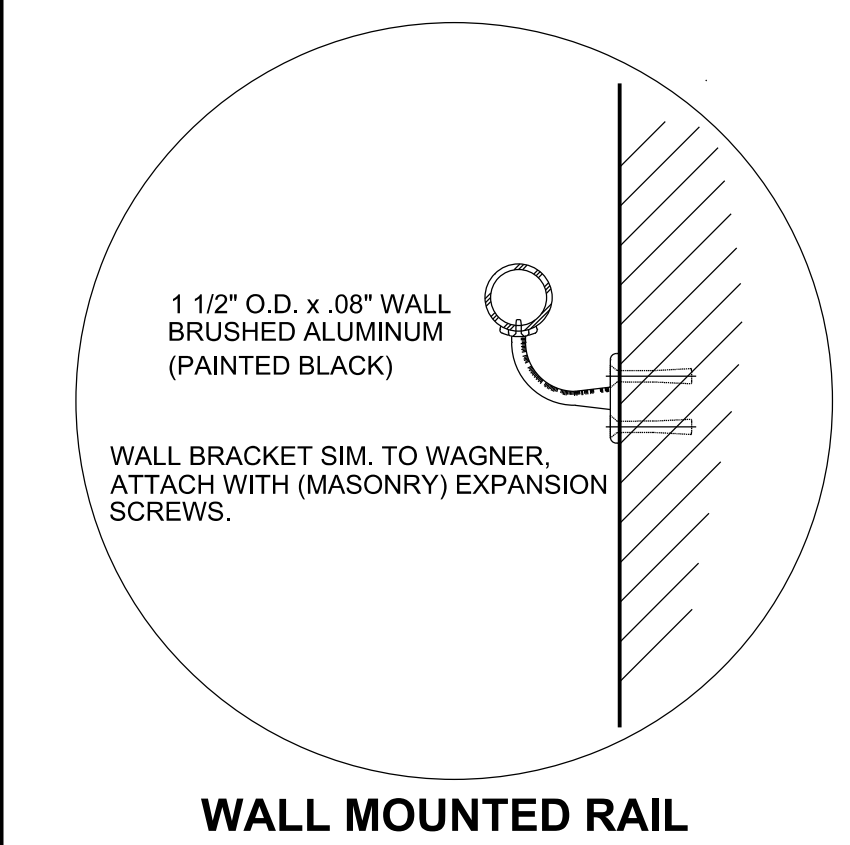


RAMP SECTION

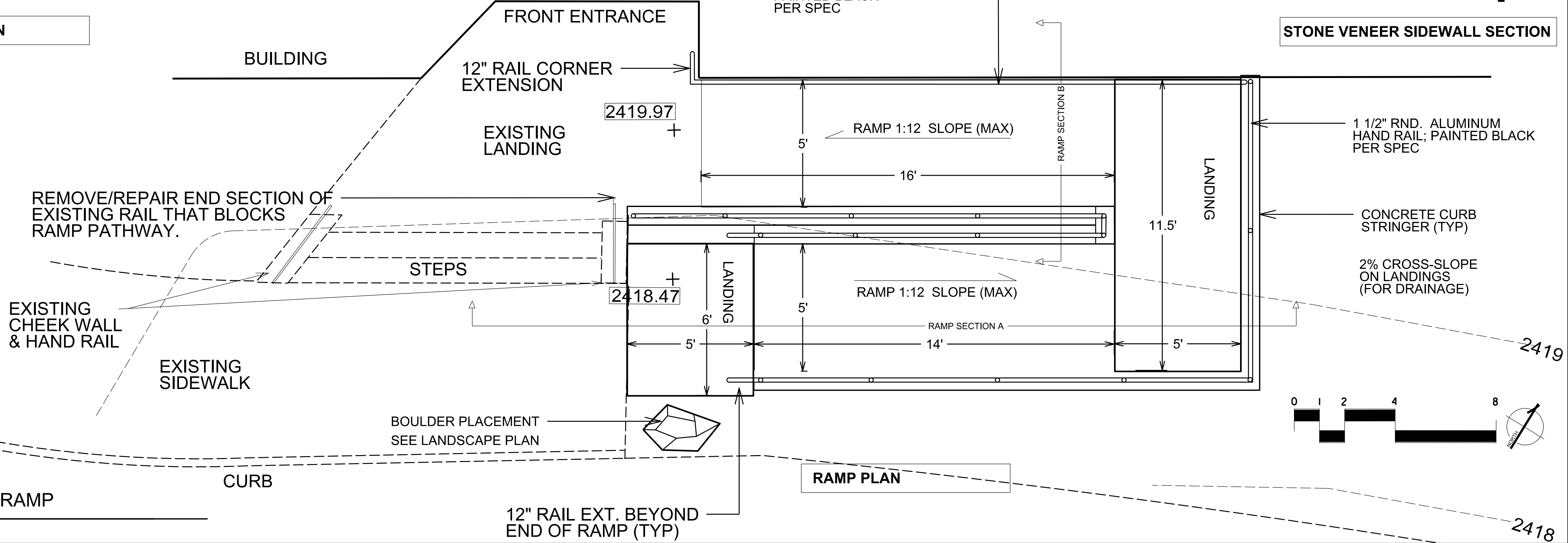


RAMP ELEVATION

STONE VENEER SIDEWALL SECTION



WALL MOUNTED RAIL

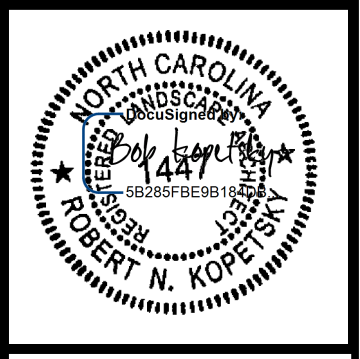


RAMP PLAN



BUILDING ENTRANCE RAMP

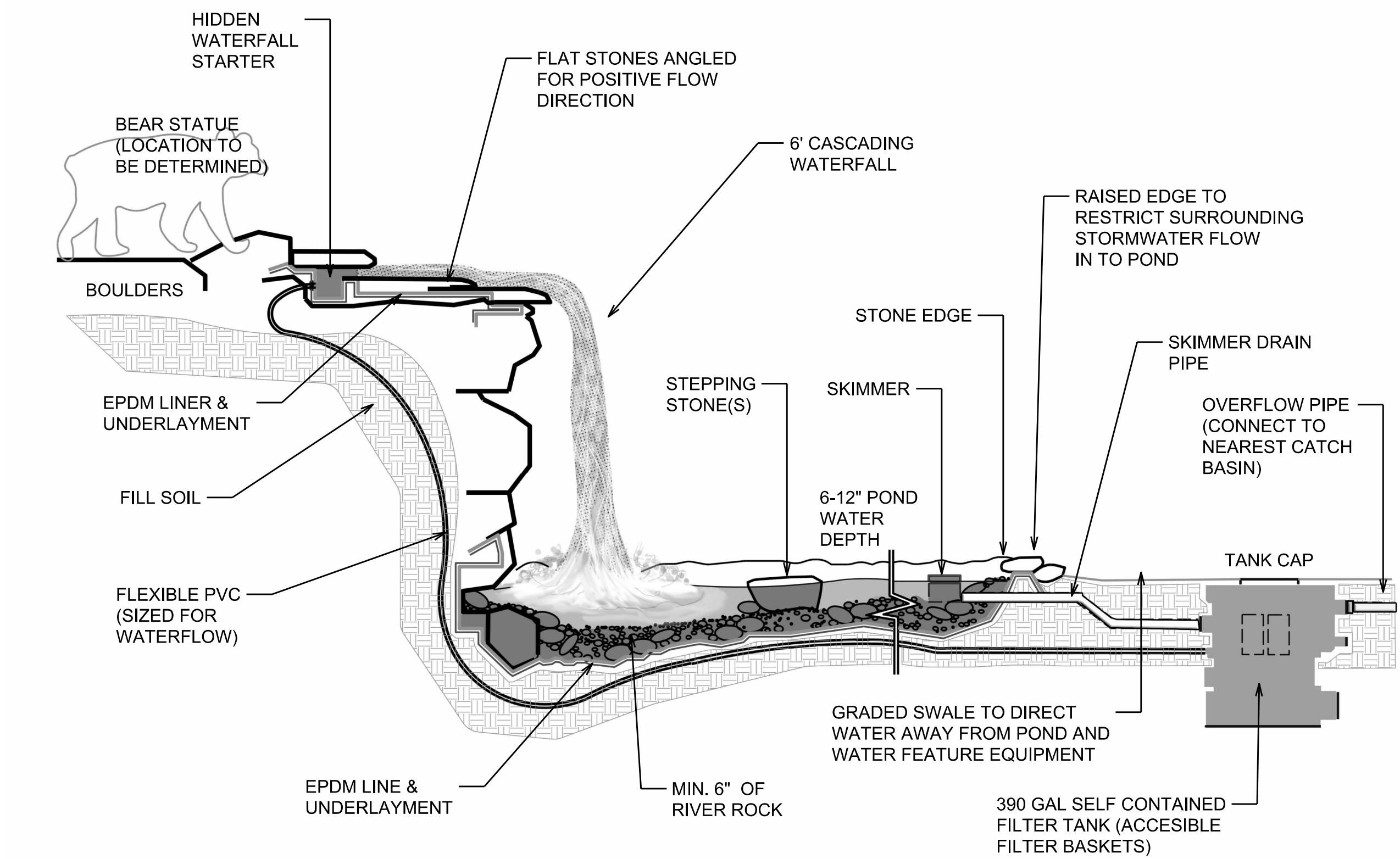
North Carolina Department of Transportation  
 Division of Highways  
 1 South Wilmington Street Raleigh, North Carolina



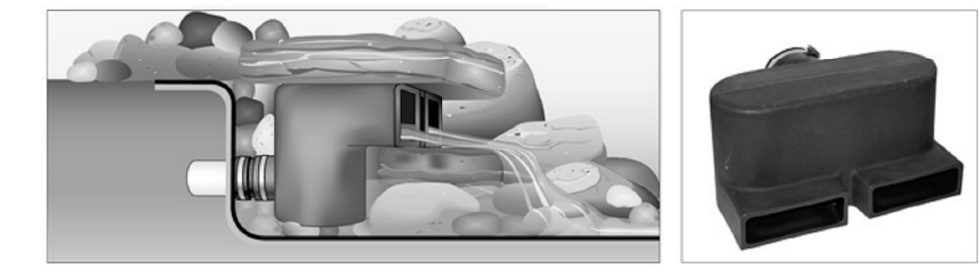
I-40 Welcome Center  
 Haywood Co.  
 Site/Landscape Development Plans

Plans Drawn By:	KOPETSKY
Scale	AS SHOWN
Date	7 / 31 / 18
Letting Date	
2018 Standard Specifications	
Sheet Description	STEPS & HC RAMP DETAILS
Sheet #	LD-2

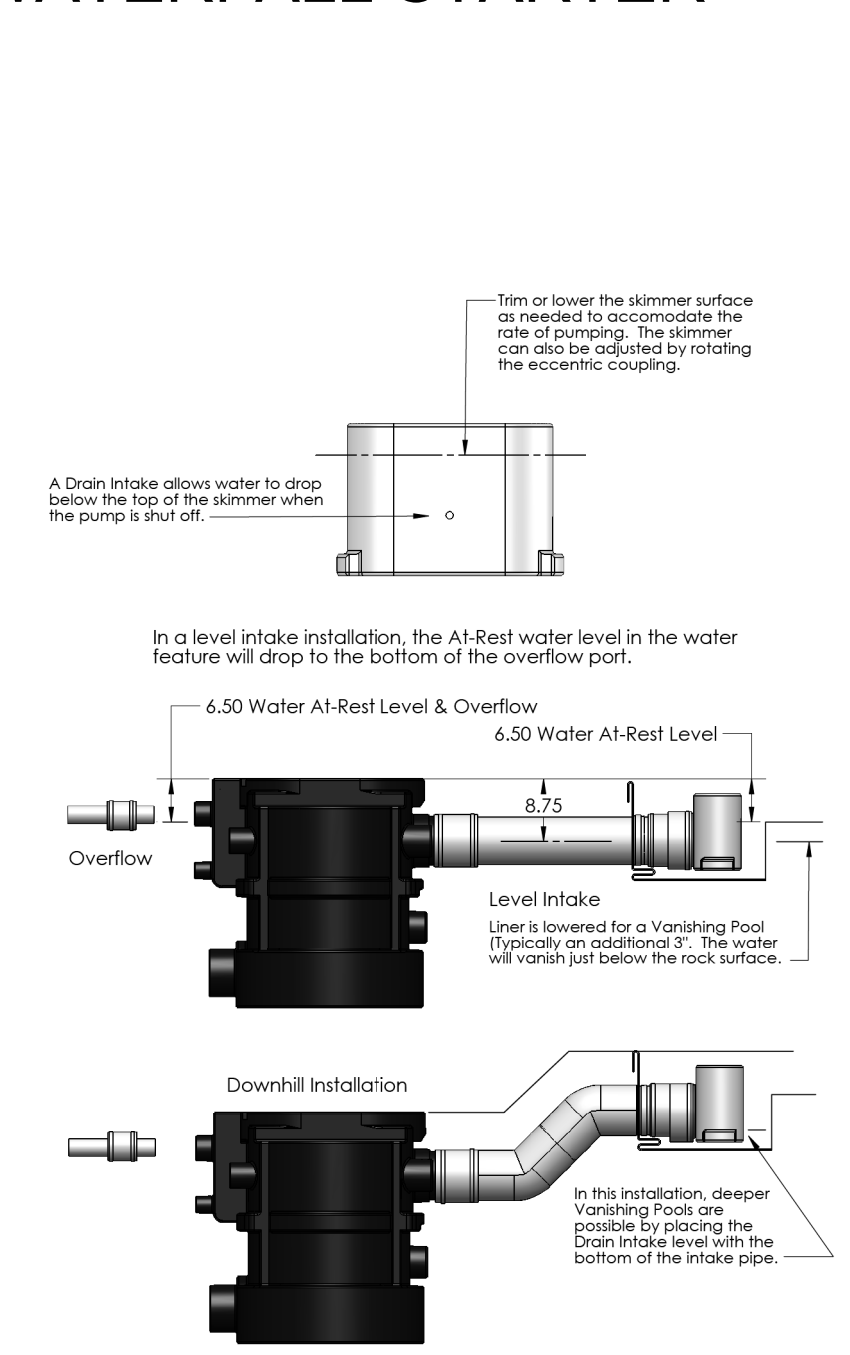




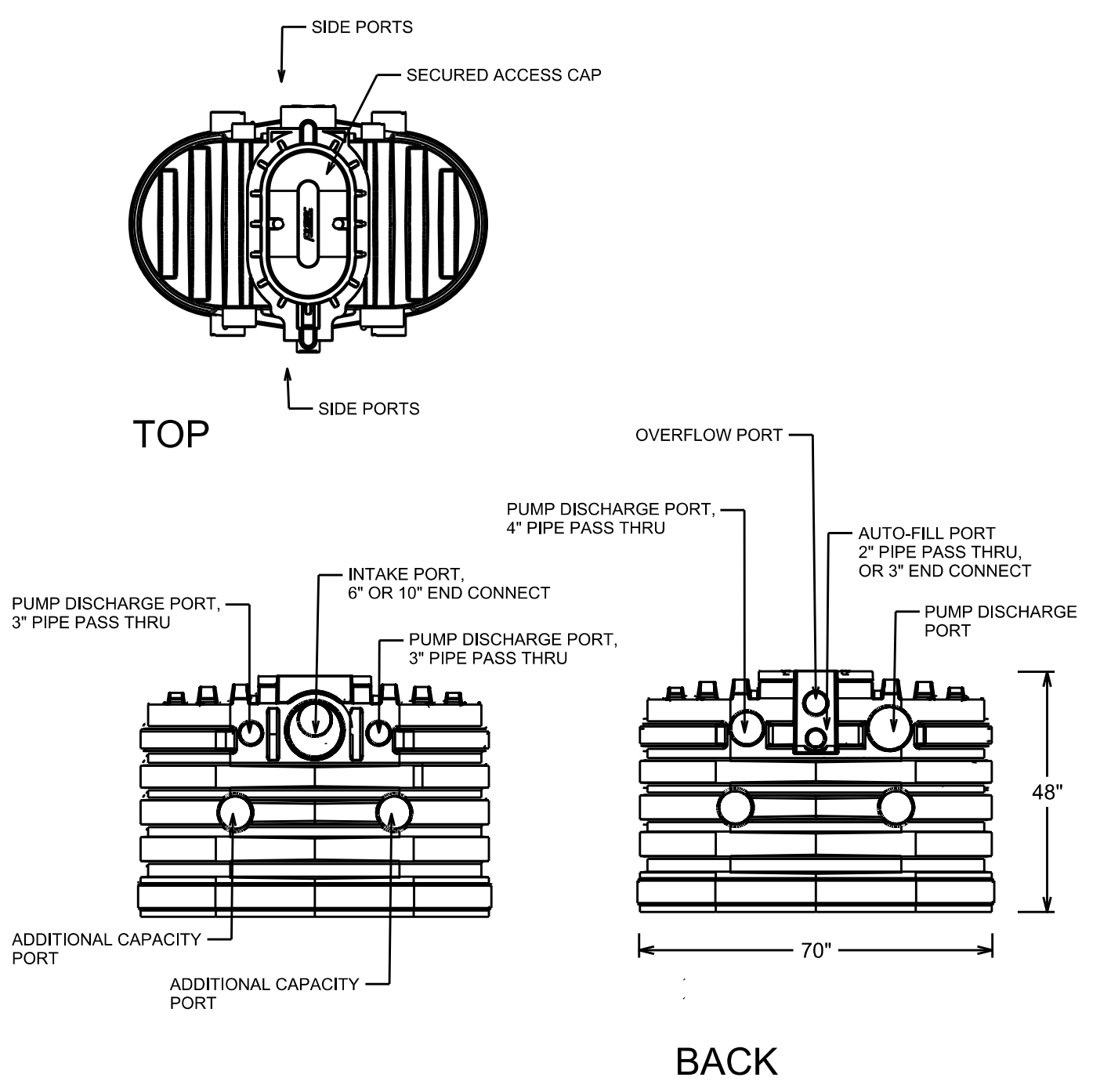
**WATER FEATURE SCHEMATIC**



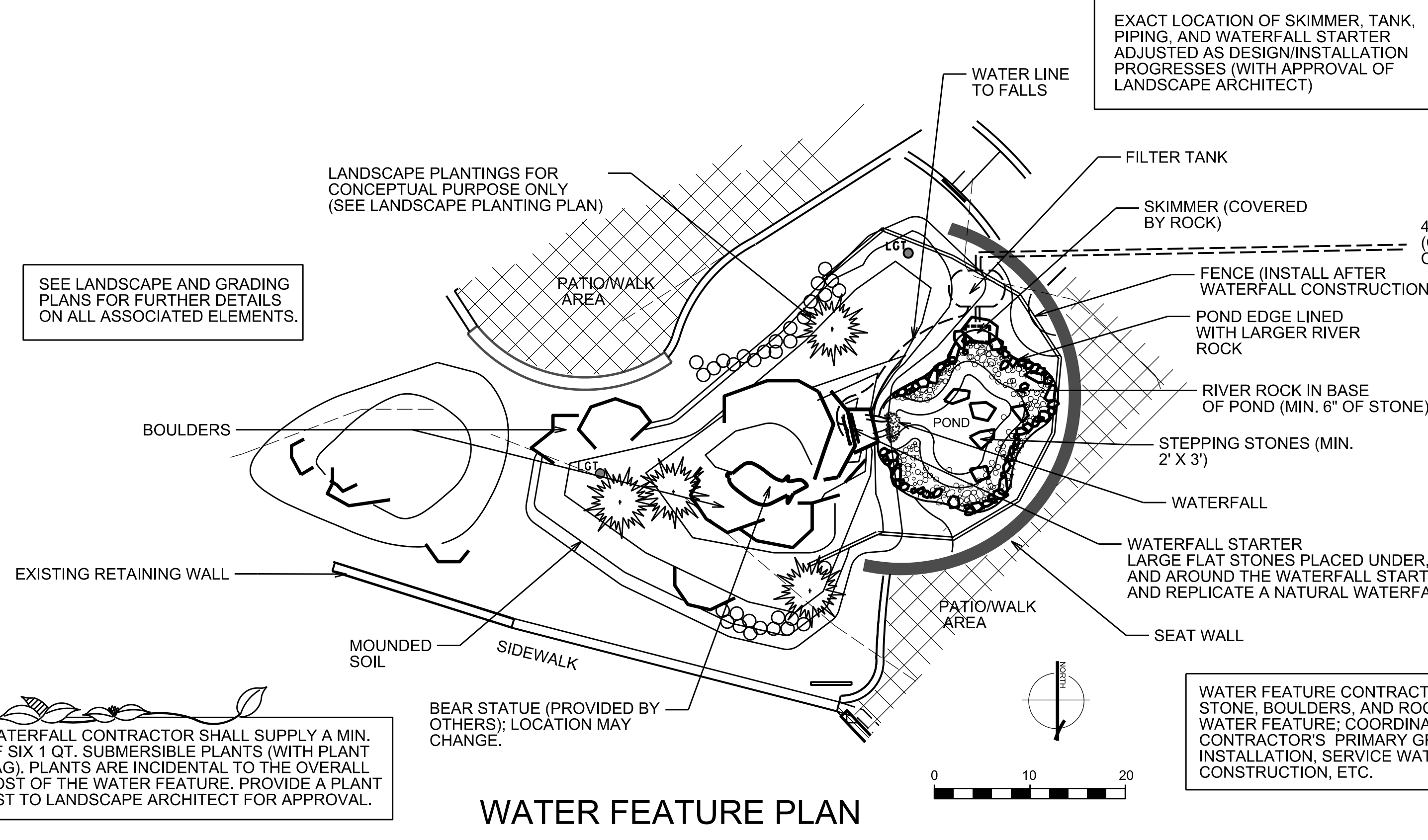
**WATERFALL STARTER**



**SKIMMER AND FILTER TANK CONNECTION DETAIL**



**FILTER TANK DETAILS**



**WATER FEATURE PLAN**

**Door Skimmer:**

- Sturdy Polyethylene construction
- Self-adjusting 8" skimmer door
- Rock fin base to hold skimmer firmly in place
- Rear drain port for pipe connection
- Max. 400 GPM
- Coupling and Linear connection kit

**Waterfall Starter:**

- Sturdy Polyethylene construction
- Sturdy top for large rock placement
- Rear water supply pipe port
- Max. 160 GPM per unit
- Coupling and Linear connection kit

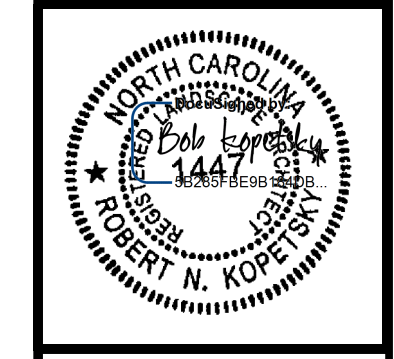
Integrate two waterfall starters for spec. flow rate.

**Filter Tank Specs:**

- Constructed of durable virgin LLDPE Polyethylene
- Handles flow rates up to 1,340 GPM (80,400 GPH)
- 390 gallon Filter Tank (provides 270 gallons of water in motion reserve @ 9" residual water depth)
- Can be placed away from the water feature
- Accepts interchangeable skimmers
- Large pumping chamber
- Bolt down integrated lid system
- Convenient filter access ( provide Filter Baskets )
- Removable Filter Carriage
- Front & back discharge ports for multiple pumps
- Front and back additional capacity ports for expandable water containment

ESTIMATED WATERFALL FLOW RATE: 180 GPM  
 ESTIMATED WATERFALL WIDTH: 5 FT  
 ESTIMATED WATERFALL WATER DEPTH: 1 INCH

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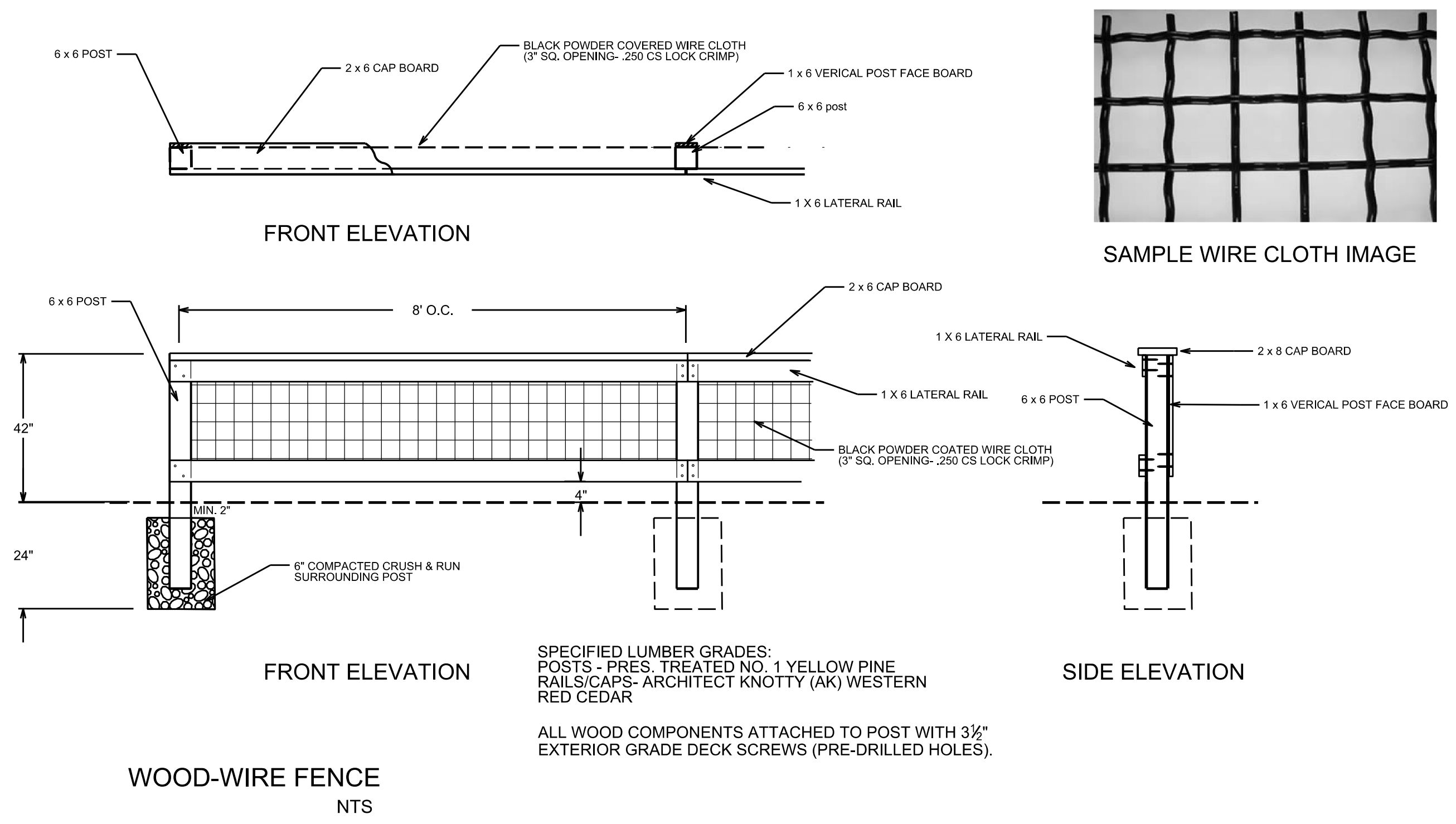
I-40 Welcome Center  
 Haywood Co.  
 Site/Landscape Development Plans

Plans Drawn By:	KOPETSKY
Scale:	AS SHOWN
Date:	7 / 31 / 18
Letting Date:	
2018 Standard Specifications	
Sheet Description:	WATER FEATURE DETAILS
Sheet #:	LD-3

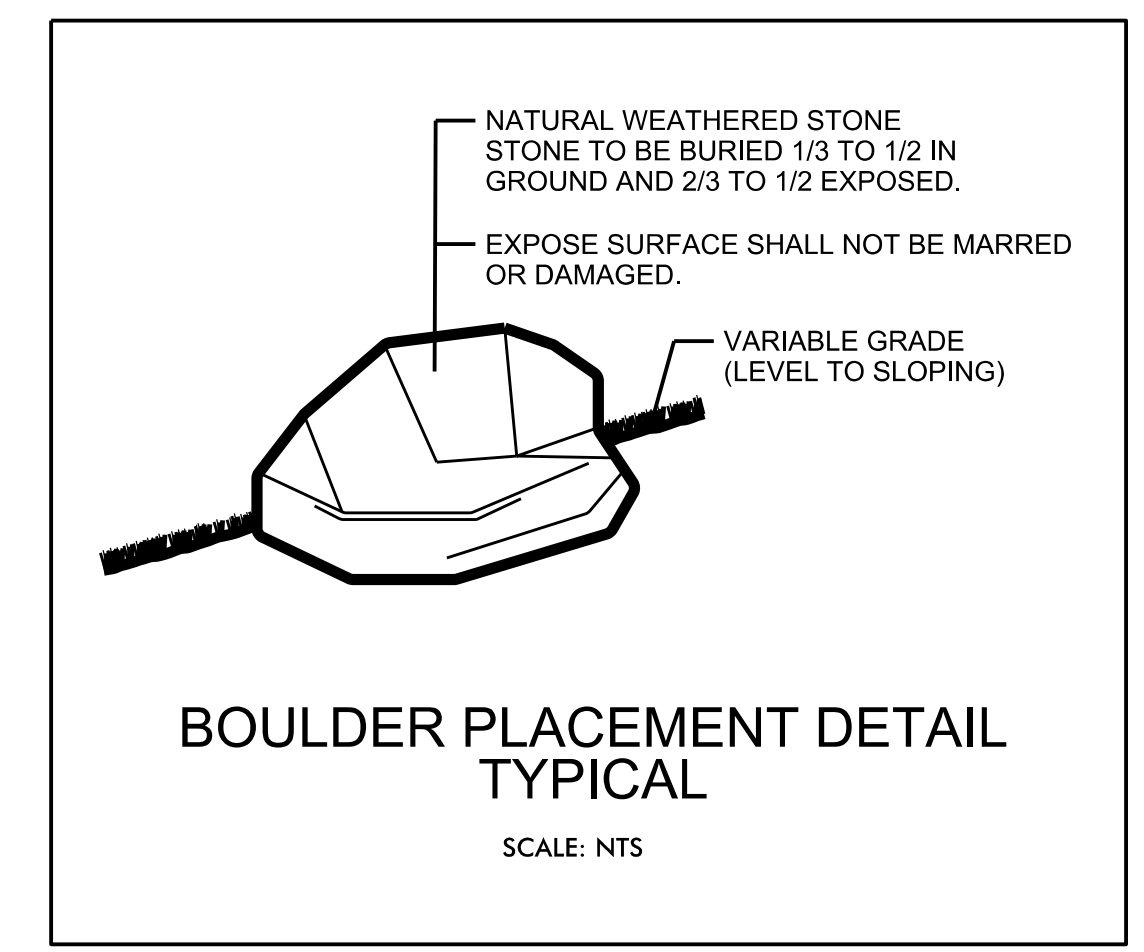
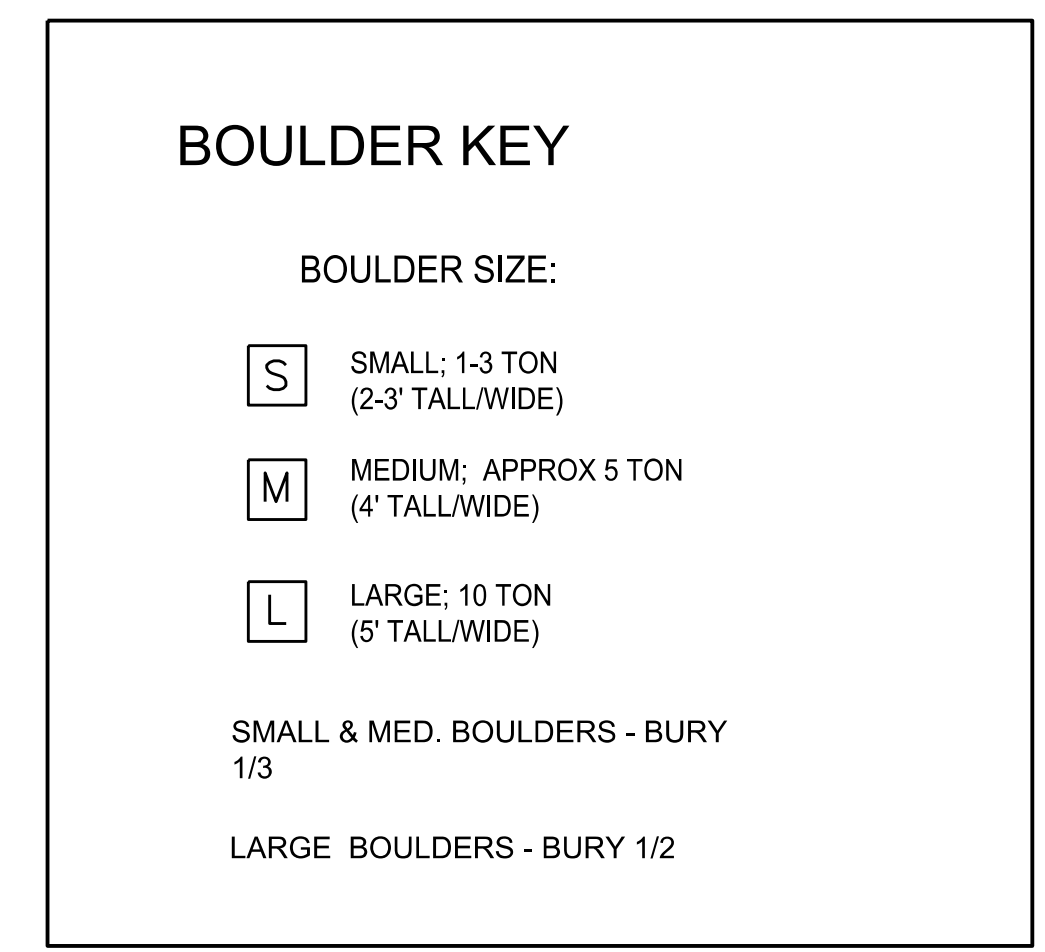
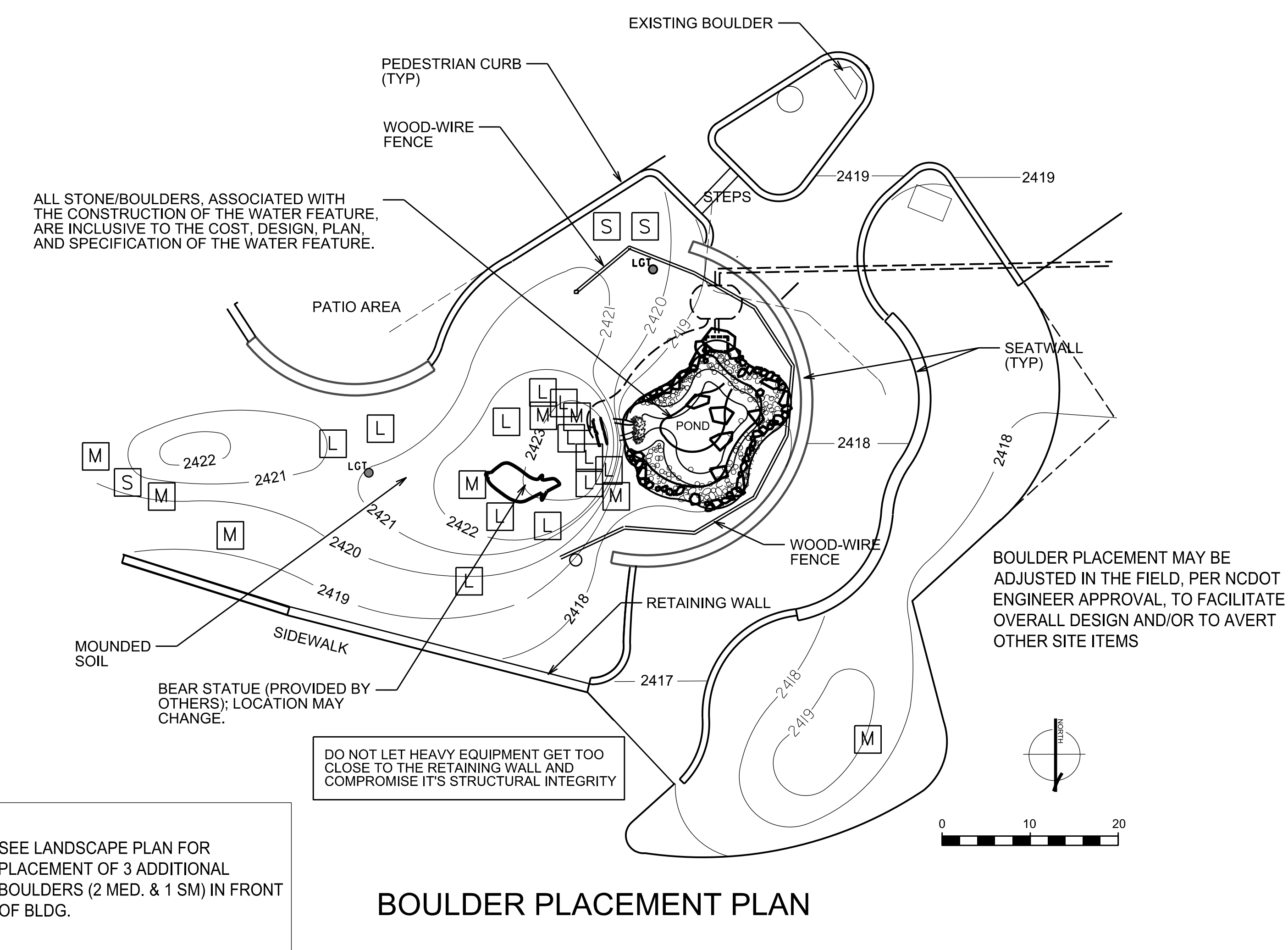
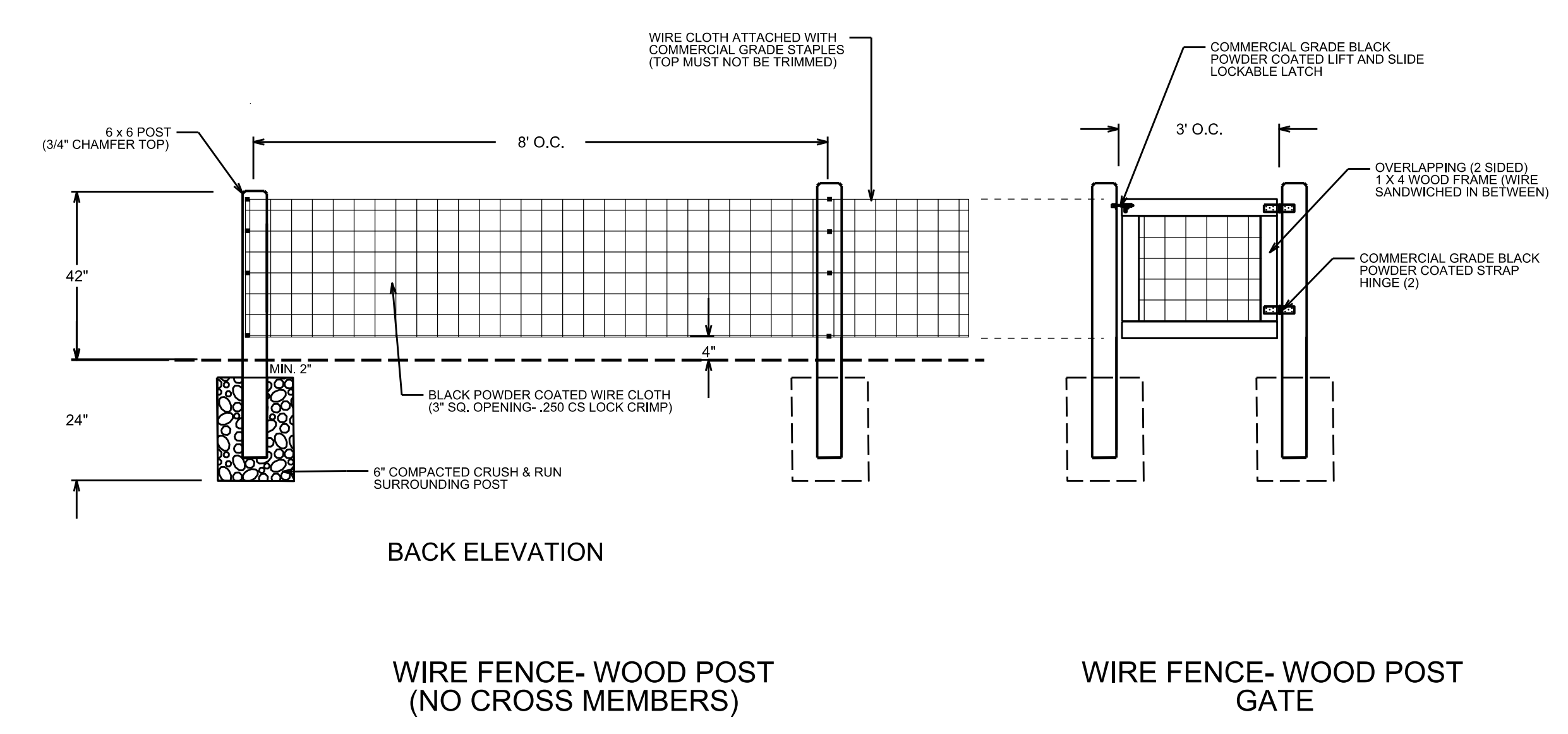
WATERFALL CONTRACTOR SHALL SUPPLY A MIN. OF SIX 1 QT. SUBMERSIBLE PLANTS (WITH PLANT BAG). PLANTS ARE INCIDENTAL TO THE OVERALL COST OF THE WATER FEATURE. PROVIDE A PLANT LIST TO LANDSCAPE ARCHITECT FOR APPROVAL.

WATER FEATURE CONTRACTOR IS RESPONSIBLE FOR ALL STONE, BOULDERS, AND ROCKS ASSOCIATED WITH THE WATER FEATURE. COORDINATE ALL WORK WITH PRIMARY CONTRACTOR'S PRIMARY GRADING, SITE BOULDER INSTALLATION, SERVICE WATER SPIGOT, FENCE CONSTRUCTION, ETC.





USE TO EXTERIOR GRADE BLACK PAINT TO TOUCH UP 'CUT' EXPOSED SECTIONS OF WIRE CLOTH WHERE IT HAS BEEN CUT/TRIMMED.

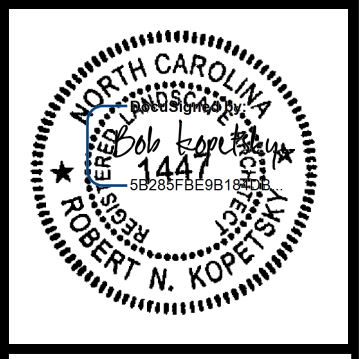


DO NOT PLACE BOULDERS UNTIL ROUGH FINAL GRADE (WITHIN 6" +/-) IS COMPLETE; GET NCDOT ENG APPROVAL.

CROSS REFERENCE TO THE PRIMARY SITE PLANS TO COORDINATE BOULDER PLACEMENT

LANDSCAPE ARCHITECT SHALL INSPECT AND APPROVE BOULDERS AT THE SOURCE PRIOR TO INSTALLATION

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 1 South Wilmington Street Raleigh, North Carolina



I-40 Welcome Center  
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 Site/Landscape Development Plans

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Date	7 / 31 / 18
Letting Date	
2018 Standard Specifications	
Sheet Description	BOULDER & FENCE DETAILS
Sheet #	LD-4



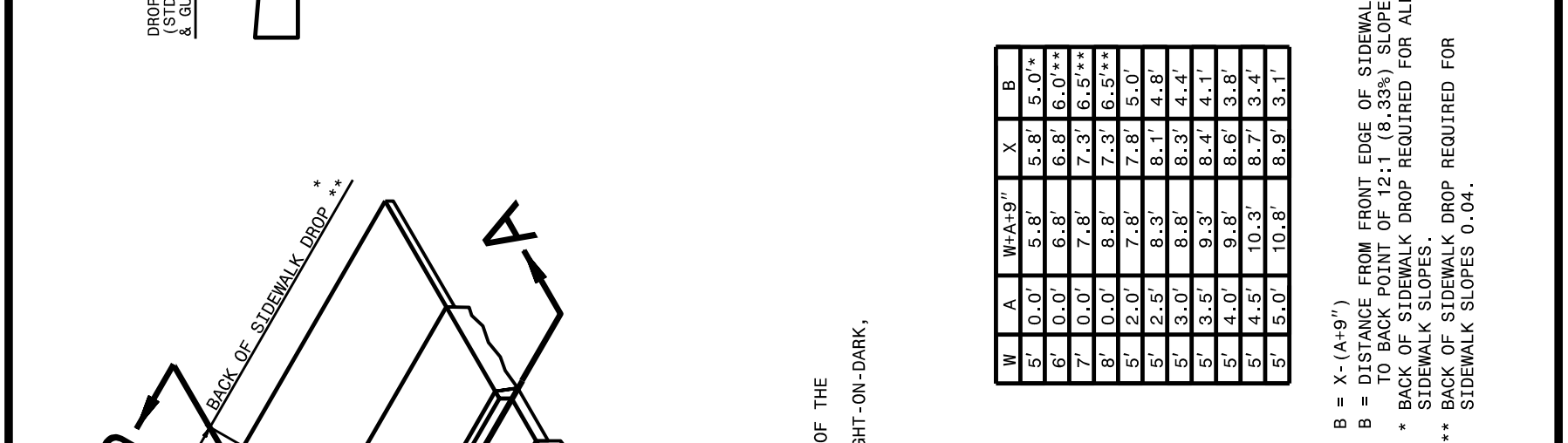
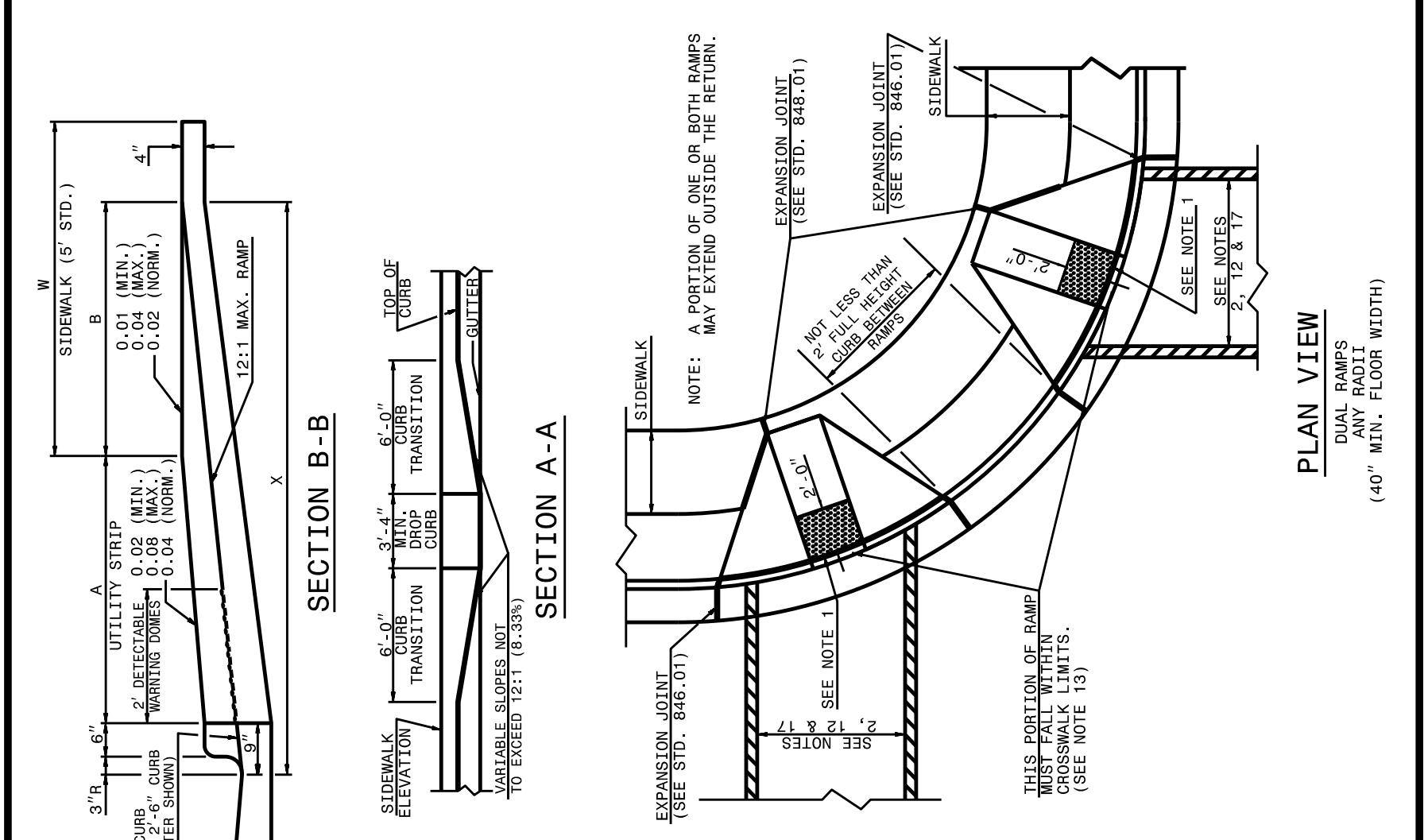
STATE NC	F.P.P. #	SHEET # 14 of 15
51213.061	F.A. Project #	Description
51213.062		P.E.
		RW
		CONST.

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**WHEELCHAIR RAMP**  
CURB CUT

SHEET 1 OF 4  
**848.05**



W	A	W-A	X	B
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NOTES:  
1. RAMP WIDTH SHALL BE 2'-0" LENGTH AND FULL WIDTH OF THE RAMP. RAMP WIDTH SHALL BE 2'-0" LENGTH AND FULL WIDTH OF THE RAMP. RAMP WIDTH SHALL BE 2'-0" LENGTH AND FULL WIDTH OF THE RAMP.  
2. OBTAIN FOR CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

DETECTABLE WARNING DOMES  
CONCRETE

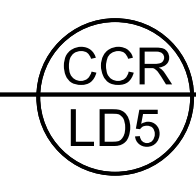
STATE OF NORTH CAROLINA  
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RALEIGH, N.C.

7-06

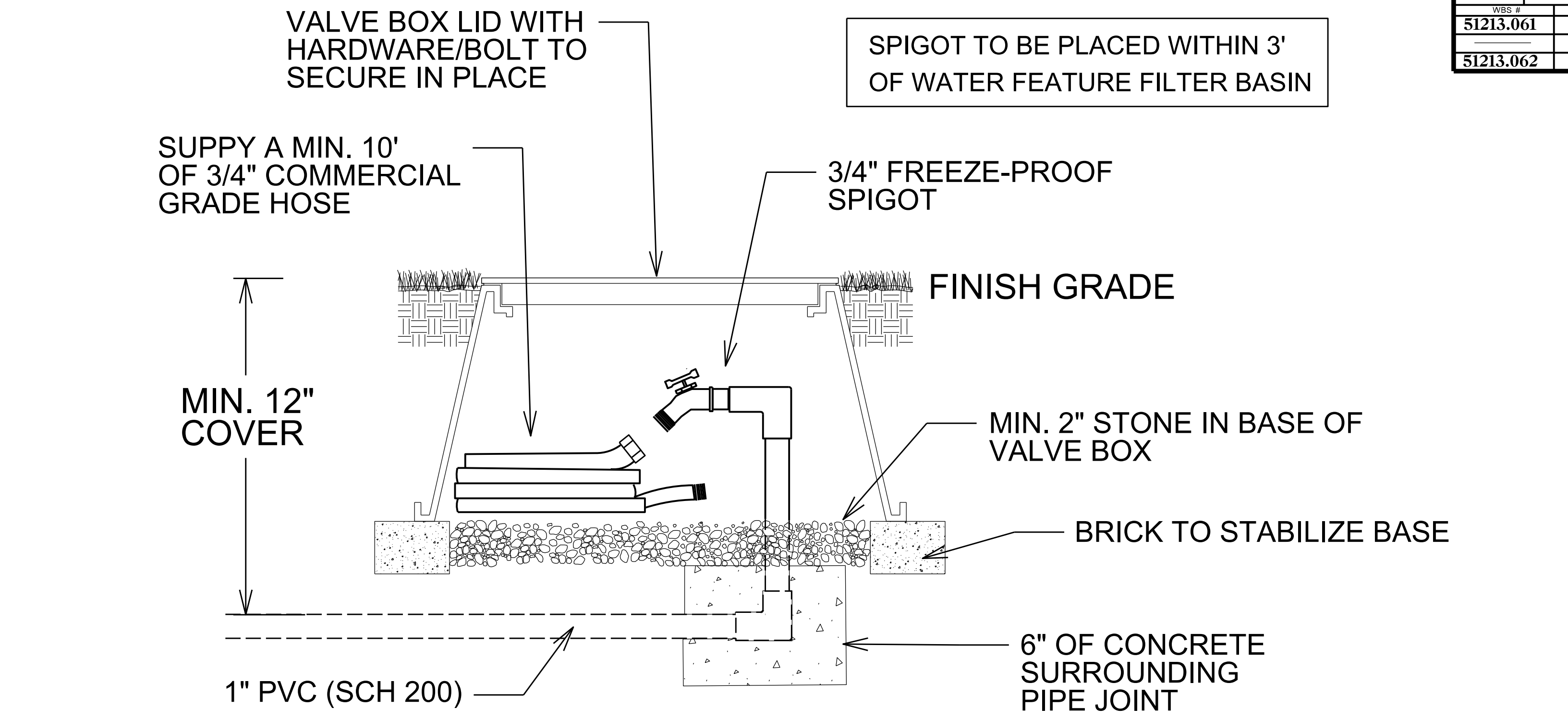
ENGLISH STANDARD DRAWING FOR  
**WHEELCHAIR RAMP**  
CURB CUT

SHEET 1 OF 4  
**848.05**

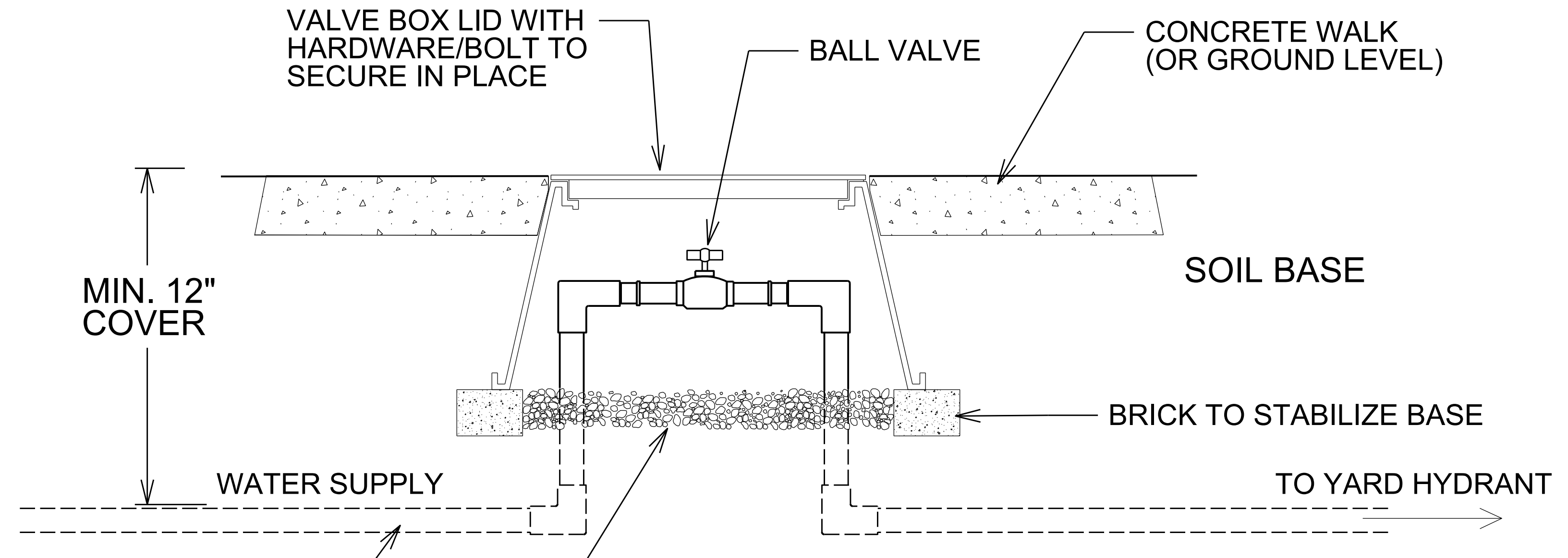
**Curb-Cut Ramp**



NTS

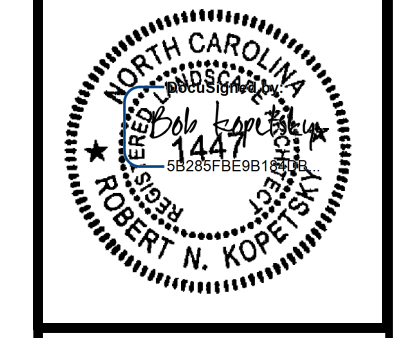


VALVE BOX - SPIGOT  
19" X 14" NDS VALVE BOX OR SIMILAR  
NTS



VALVE BOX - WATER LINE CUTOFF  
19" X 14" NDS VALVE BOX OR SIMILAR  
NTS

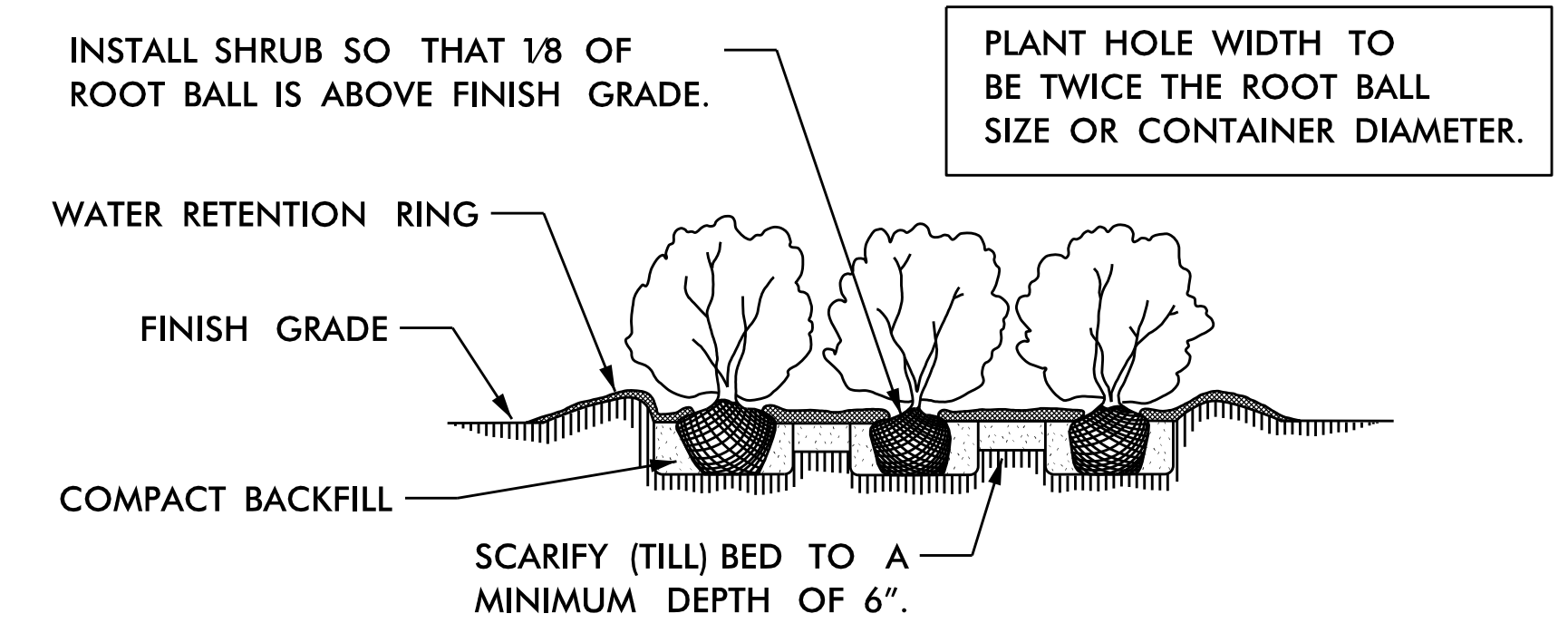
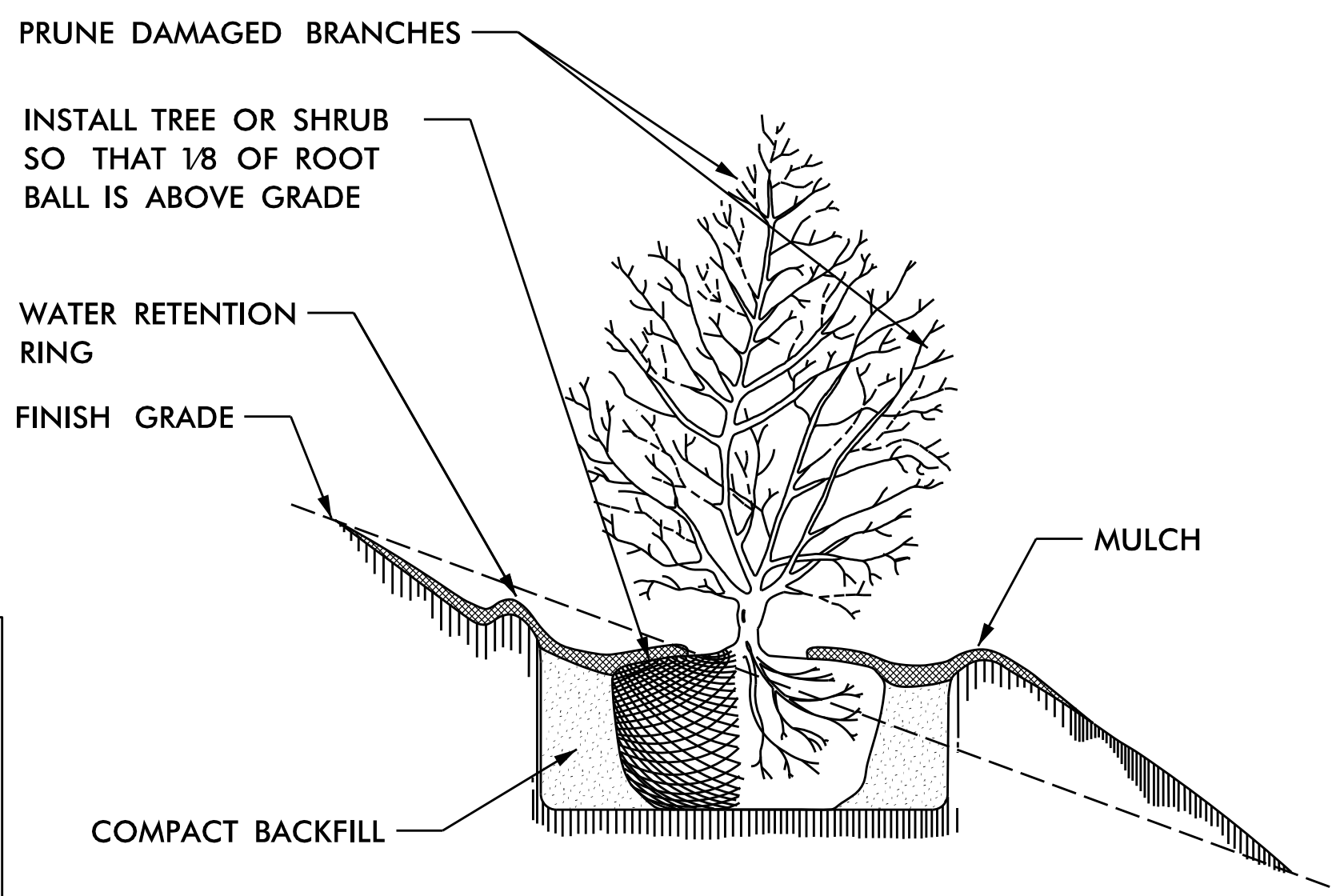
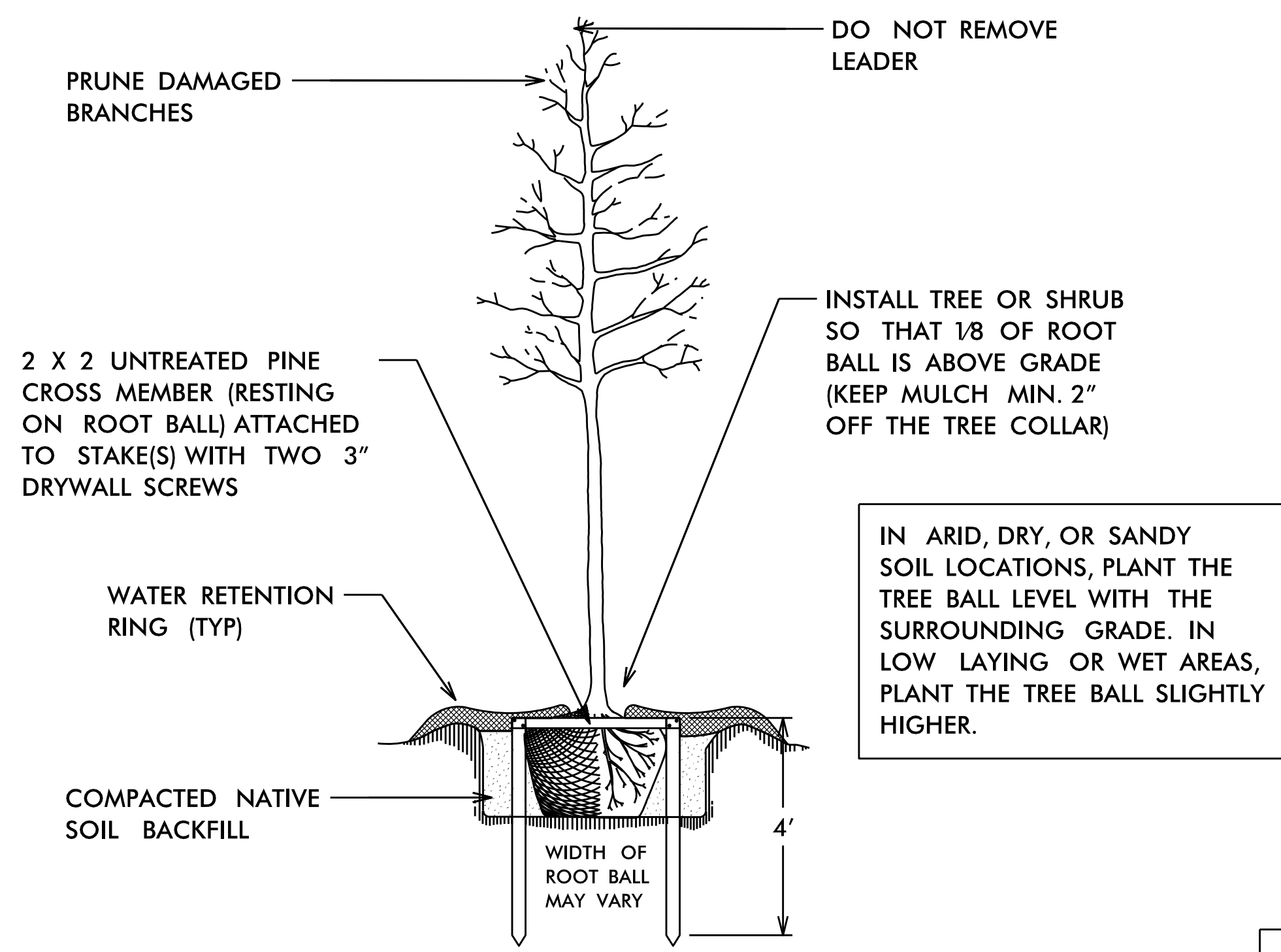
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Site/Landscape Development Plans

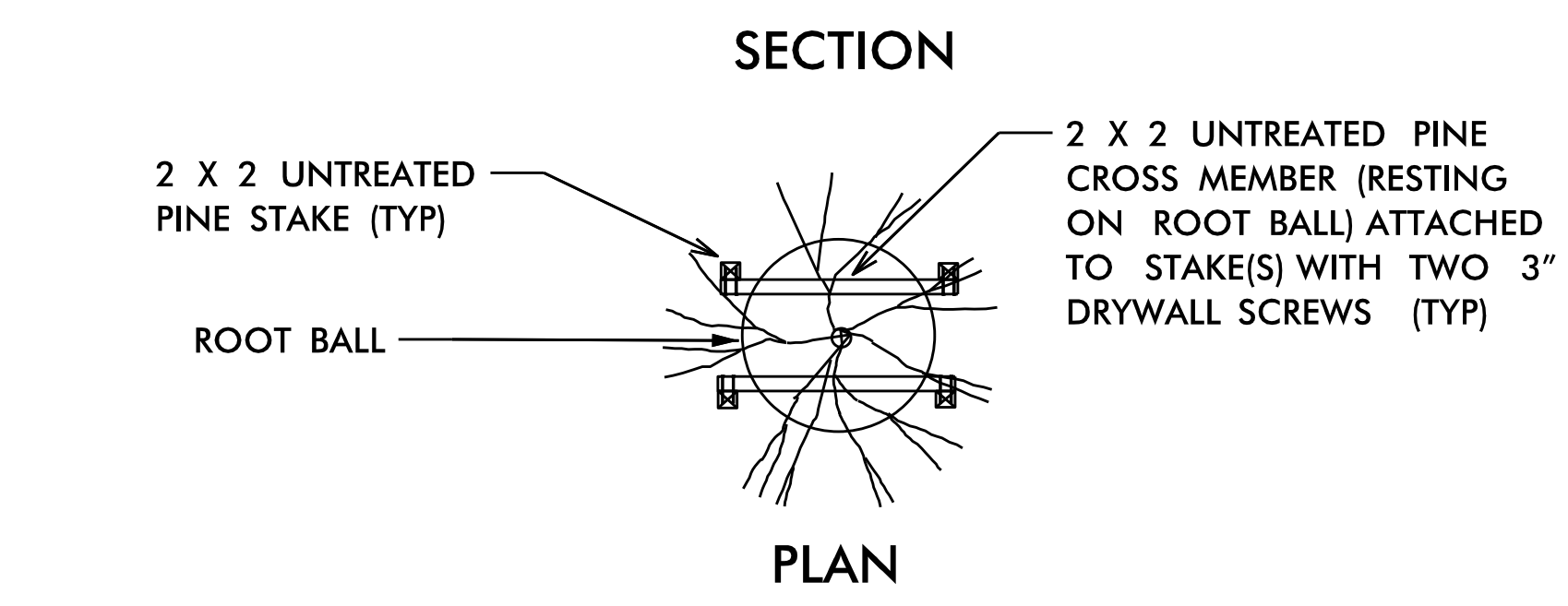
Plans Drawn By:	KOPEFSKY
Scale	AS SHOWN
Date	7 / 31 / 18
Letting Date	
2018 Standard Specifications	
Sheet Description	CURB RAMP & VALVE BOXES
Sheet #	LD-5





**SHRUB BED PLANTING DETAIL**

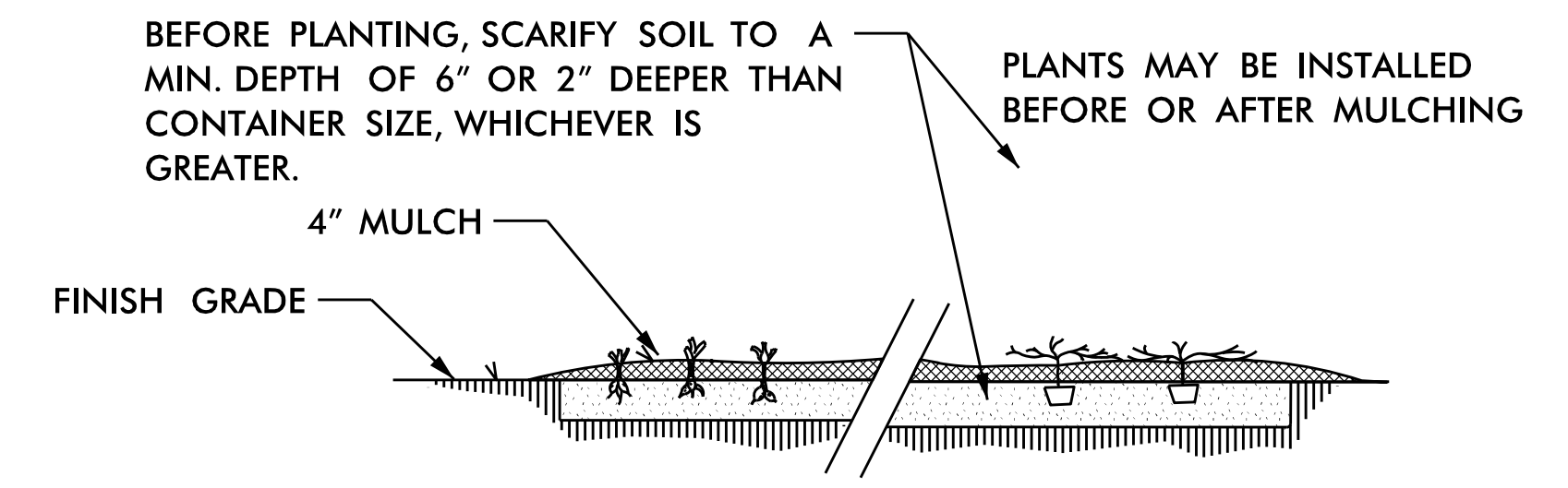
**TREE OR SHRUB PLANTING DETAIL (SLOPING GROUND)**



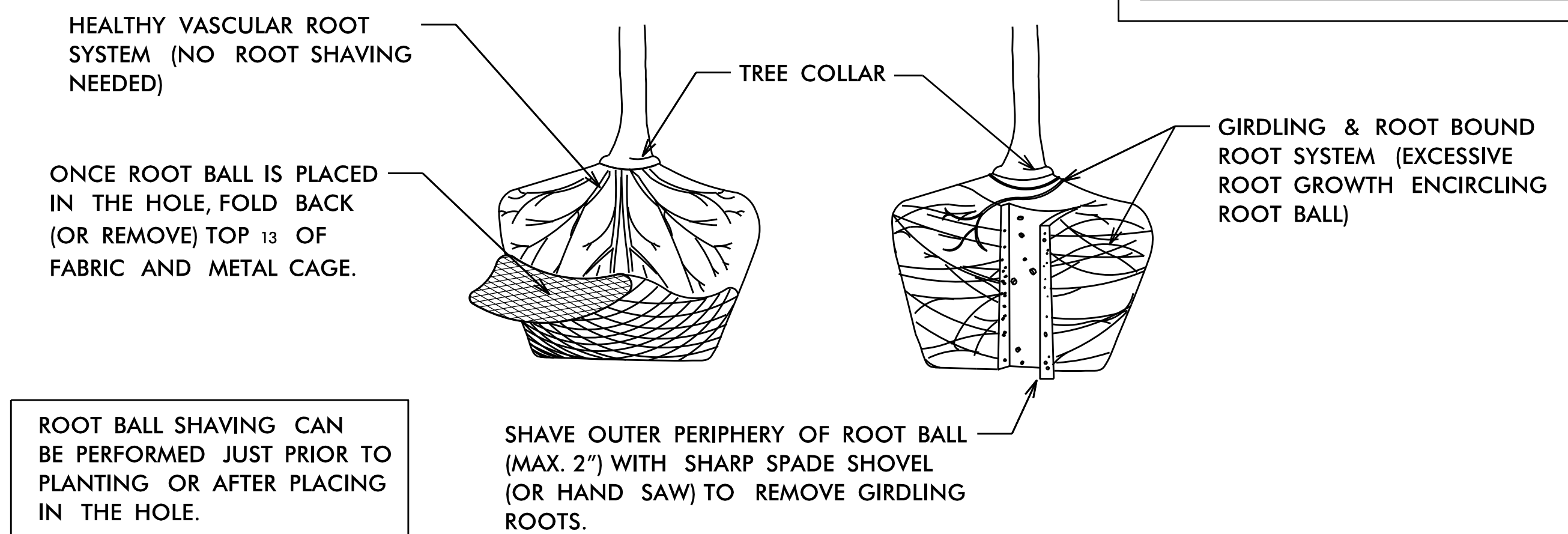
**TREE PLANTING & ROOT BALL STAKING DETAIL (STAKE TREES 8' OR TALLER)**

**NOTES:**

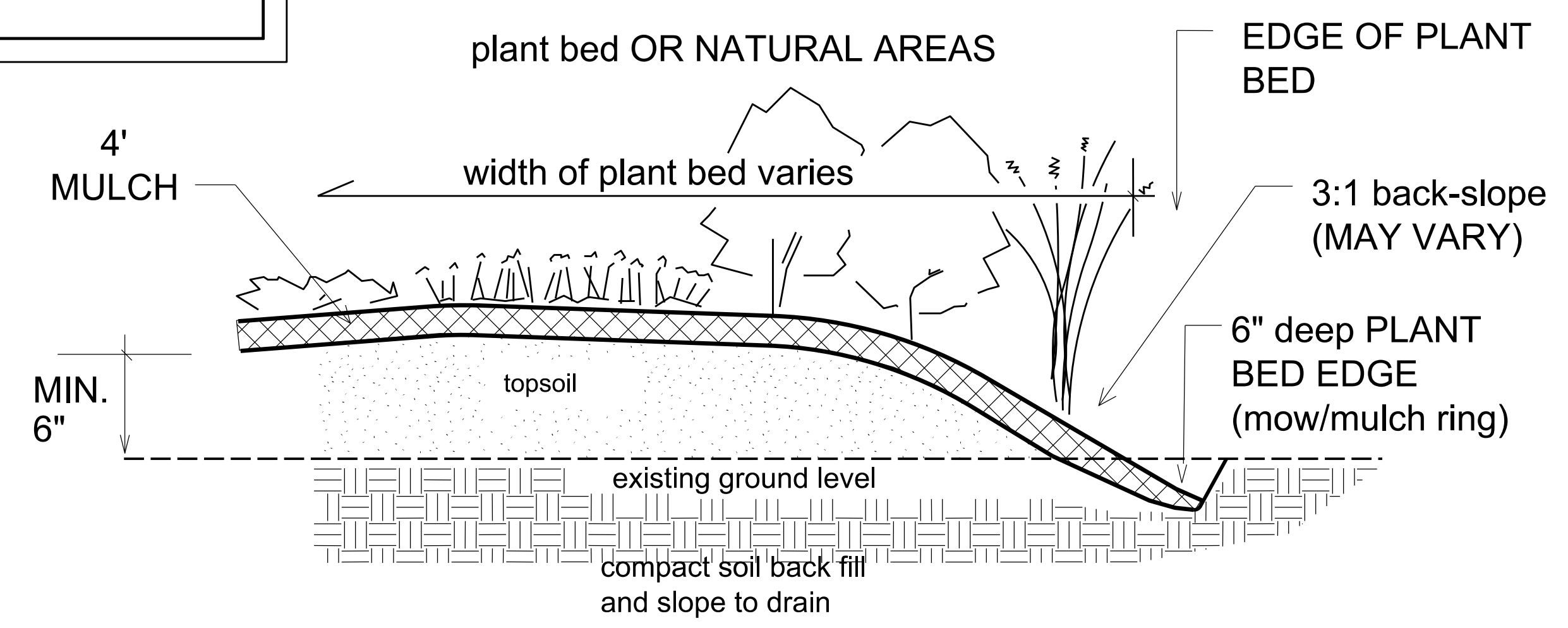
- PLANT HOLE WIDTH TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- APPLY HERBICIDES A MIN. OF 7 DAYS PRIOR TO PLANTING, BY LABEL INSTRUCTIONS, OR AS DIRECTED BY THE NCDOT ENGINEER.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.



**GROUND COVER/BEDDING PLANT DETAIL**



**TREE PLANTING INSTRUCTIONS (FOR CONTAINER OR BALLED & BURLAPPED TREES)**



**PLANT BED EDGE DETAIL**