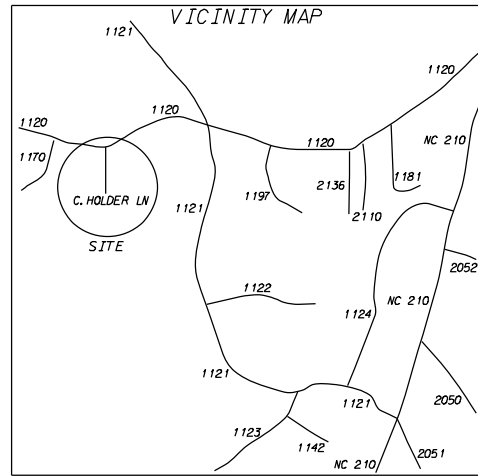


TIP PROJECT: X-XXXX



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

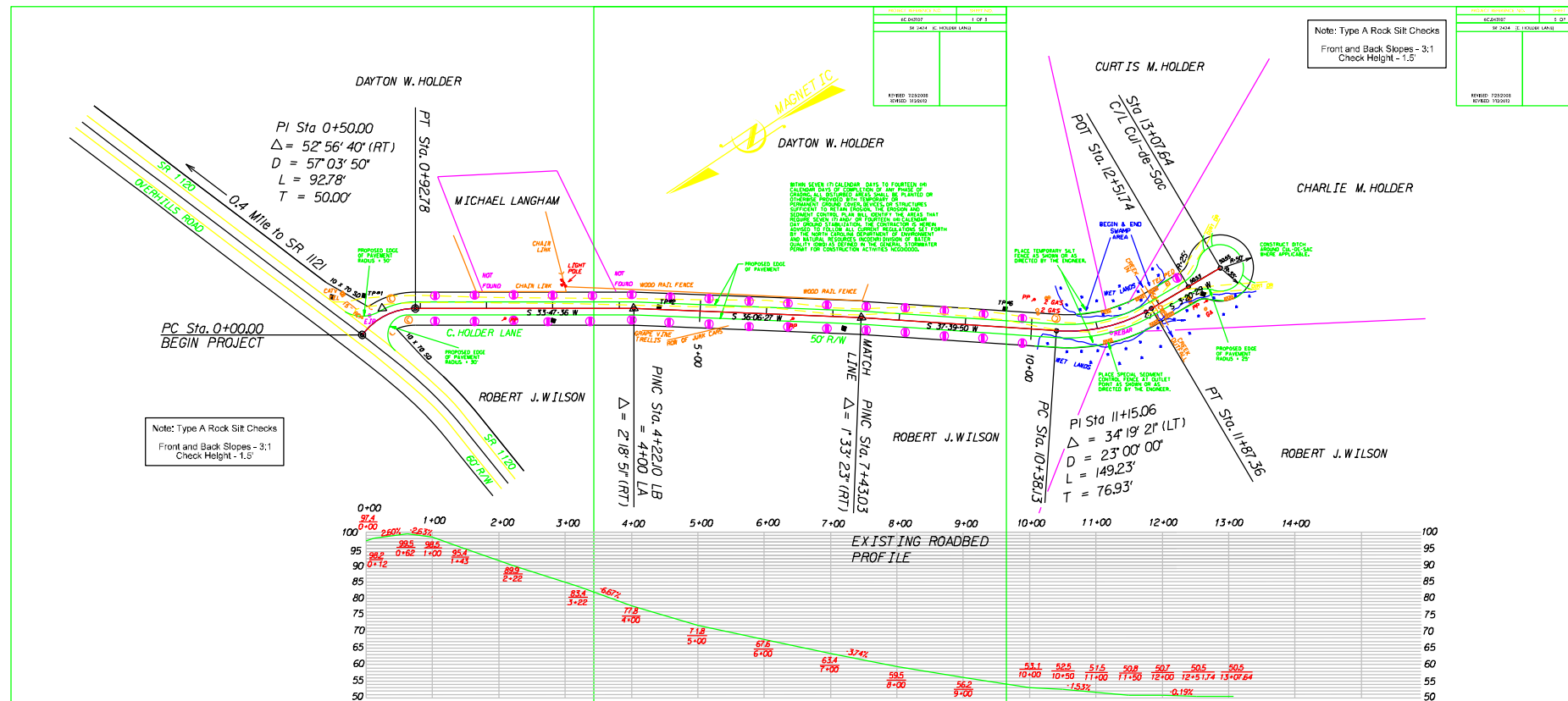
Note: Type A Rock Silt Checks  
Front and Back Slopes - 3:1  
Check Height - 1.5'

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.  
  
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	6C.045107	1 of 5	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

## EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



Ditch Lining Legend & Schedule

Matting	(Green)
0+00 - 1+00 (Lt. & Rt.)	
1+00 - 7+00 (Lt. & Rt.)	
7+00 - 11+00 (Lt. & Rt.)	

**GRAPHIC SCALE**

0  
PLANS  
0  
PROFILE (HORIZONTAL)  
0  
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:  
**DISTRICT OFFICE DIV 6 / 2**  
600 Southern Avenue  
Fayetteville NC, 28304  
**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

\*\*\*\*\*SYSTEMS ENGINEERING\*\*\*\*\*  
\*\*\*\*\*SURVEYING\*\*\*\*\*

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ <sub>EP</sub>
Property Corner	✕
Property Monument	□ <sub>PM</sub>
Parcel/Sequence Number	①23
Existing Fence Line	—x—x—x—x—
Proposed Woven Wire Fence	—○—○—○—○—
Proposed Chain Link Fence	—□—□—□—□—
Proposed Barbed Wire Fence	—◇—◇—◇—◇—
Existing Wetland Boundary	---WLB---
Proposed Wetland Boundary	---WLB---
Existing Endangered Animal Boundary	---EAB---
Existing Endangered Plant Boundary	---EPB---
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ <sub>S</sub>
Well	○ <sub>W</sub>
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□ <sub>†</sub>
Building	□
School	□ <sub>†</sub>
Church	□ <sub>†</sub>
Dam	—

## HYDROLOGY:

Stream or Body of Water	—
Hydro, Pool or Reservoir	□
Jurisdictional Stream	---JS---
Buffer Zone 1	---BZ 1---
Buffer Zone 2	---BZ 2---
Flow Arrow	←
Disappearing Stream	—>
Spring	○
Wetland	↓
Proposed Lateral, Tail, Head Ditch	—
False Sump	▽

## RAILROADS:

Standard Gauge	—
RR Signal Milepost	○ <sub>CSX TRANSPORTATION</sub> MILEPOST 35
Switch	□ <sub>SWITCH</sub>
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	—
Proposed Right of Way Line	—(RW)—
Proposed Right of Way Line with Iron Pin and Cap Marker	—(RW)▲—
Proposed Right of Way Line with Concrete or Granite Marker	—▲(RW)—
Existing Control of Access	—(A)—
Proposed Control of Access	—(A)—
Existing Easement Line	—E—
Proposed Temporary Construction Easement	—E—
Proposed Temporary Drainage Easement	—TDE—
Proposed Permanent Drainage Easement	—PDE—
Proposed Permanent Drainage / Utility Easement	—DUE—
Proposed Permanent Utility Easement	—PUE—
Proposed Temporary Utility Easement	—TUE—
Proposed Aerial Utility Easement	—AUE—
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	---C---
Proposed Slope Stakes Fill	---F---
Proposed Curb Ramp	○ <sub>CR</sub>
Existing Metal Guardrail	—T—T—T—T—
Proposed Guardrail	—T—T—T—T—
Existing Cable Guiderail	—□—□—□—□—
Proposed Cable Guiderail	—□—□—□—□—
Equality Symbol	⊕
Pavement Removal	⊗

## VEGETATION:

Single Tree	☘
Single Shrub	☘
Hedge	—
Woods Line	—

Orchard	☘☘☘☘
Vineyard	□ <sub>Vineyard</sub>

## EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	—CONC—
Bridge Wing Wall, Head Wall and End Wall	—) CONC WW (—
MINOR:	
Head and End Wall	—CONC HW—
Pipe Culvert	—
Footbridge	—
Drainage Box: Catch Basin, DI or JB	□ <sub>CB</sub>
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ <sub>S</sub>
Storm Sewer	—S—

## UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ <sub>P</sub>
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	□ <sub>PH</sub>
H-Frame Pole	—●—
Recorded U/G Power Line	—P—
Designated U/G Power Line (S.U.E.*)	---P---

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○ <sub>T</sub>
Telephone Booth	□ <sub>T</sub>
Telephone Pedestal	□ <sub>T</sub>
Telephone Cell Tower	⊗ <sub>T</sub>
U/G Telephone Cable Hand Hole	□ <sub>PH</sub>
Recorded U/G Telephone Cable	—T—
Designated U/G Telephone Cable (S.U.E.*)	---T---
Recorded U/G Telephone Conduit	—TC—
Designated U/G Telephone Conduit (S.U.E.*)	---TC---
Recorded U/G Fiber Optics Cable	—TFO—
Designated U/G Fiber Optics Cable (S.U.E.*)	---TFO---

## WATER:

Water Manhole	○ <sub>W</sub>
Water Meter	○
Water Valve	⊗
Water Hydrant	○ <sub>W</sub>
Recorded U/G Water Line	—
Designated U/G Water Line (S.U.E.*)	---
Above Ground Water Line	—A/G Water—

## TV:

TV Satellite Dish	☘
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□ <sub>PH</sub>
Recorded U/G TV Cable	—TV—
Designated U/G TV Cable (S.U.E.*)	---TV---
Recorded U/G Fiber Optic Cable	—TFO—
Designated U/G Fiber Optic Cable (S.U.E.*)	---TFO---

## GAS:

Gas Valve	◇
Gas Meter	◇
Recorded U/G Gas Line	—G—
Designated U/G Gas Line (S.U.E.*)	---G---
Above Ground Gas Line	—A/G Gas—

## SANITARY SEWER:

Sanitary Sewer Manhole	○ <sub>SS</sub>
Sanitary Sewer Cleanout	○ <sub>SS</sub>
U/G Sanitary Sewer Line	—SS—
Above Ground Sanitary Sewer	—A/G Sanitary Sewer—
Recorded SS Forced Main Line	—fss—
Designated SS Forced Main Line (S.U.E.*)	---fss---

## MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□ <sub>S</sub>
Utility Unknown U/G Line	—?UL—
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	□ <sub>UST</sub>
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊗
U/G Test Hole (S.U.E.*)	⊗
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

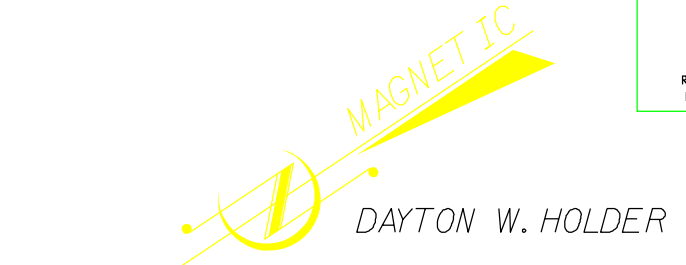
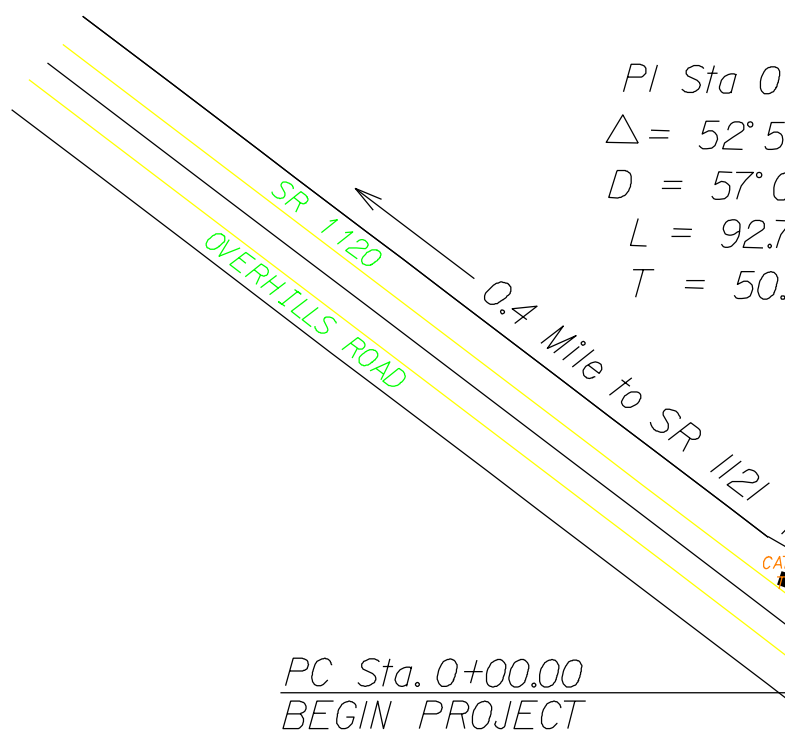
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

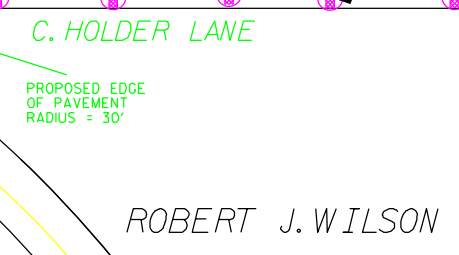
DAYTON W. HOLDER

PI Sta 0+50.00  
 $\Delta = 52^\circ 56' 40''$  (RT)  
 $D = 57^\circ 03' 50''$   
 $L = 92.78'$   
 $T = 50.00'$



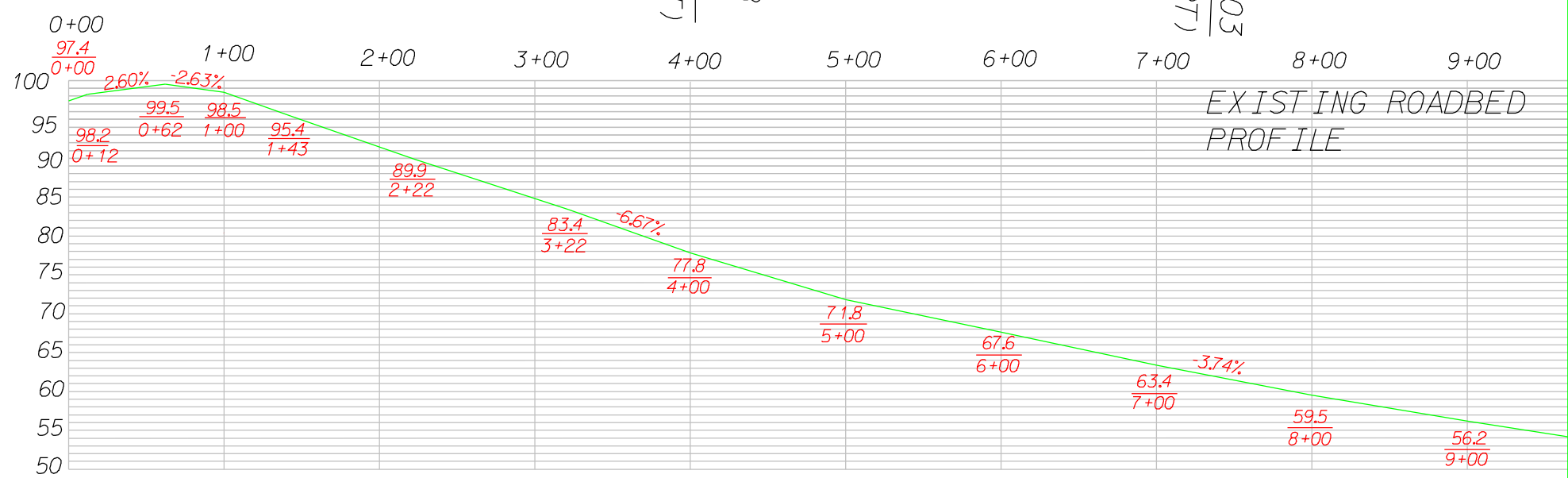
WITHIN SEVEN (7) CALENDAR DAYS TO FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, ALL DISTURBED AREAS SHALL BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE EROSION AND SEDIMENT CONTROL PLAN WILL IDENTIFY THE AREAS THAT REQUIRE SEVEN (7) AND/ OR FOURTEEN (14) CALENDAR DAY GROUND STABILIZATION. THE CONTRACTOR IS HEREIN ADVISED TO FOLLOW ALL CURRENT REGULATIONS SET FORTH BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (NCDENR) DIVISION OF WATER QUALITY (DWO) AS DEFINED IN THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES NCG00000.

Note: Type A Rock Silt Checks  
 Front and Back Slopes - 3:1  
 Check Height - 1.5'

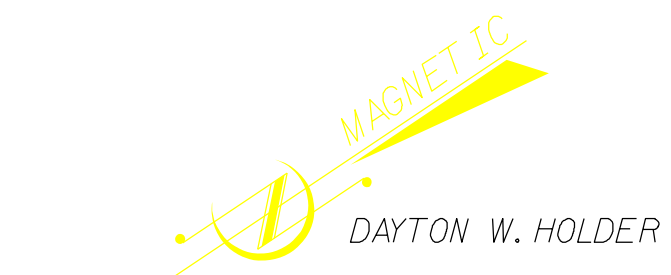


PINC Sta. 4+22.10 LB  
 $\Delta = 2^\circ 18' 51''$  (RT)

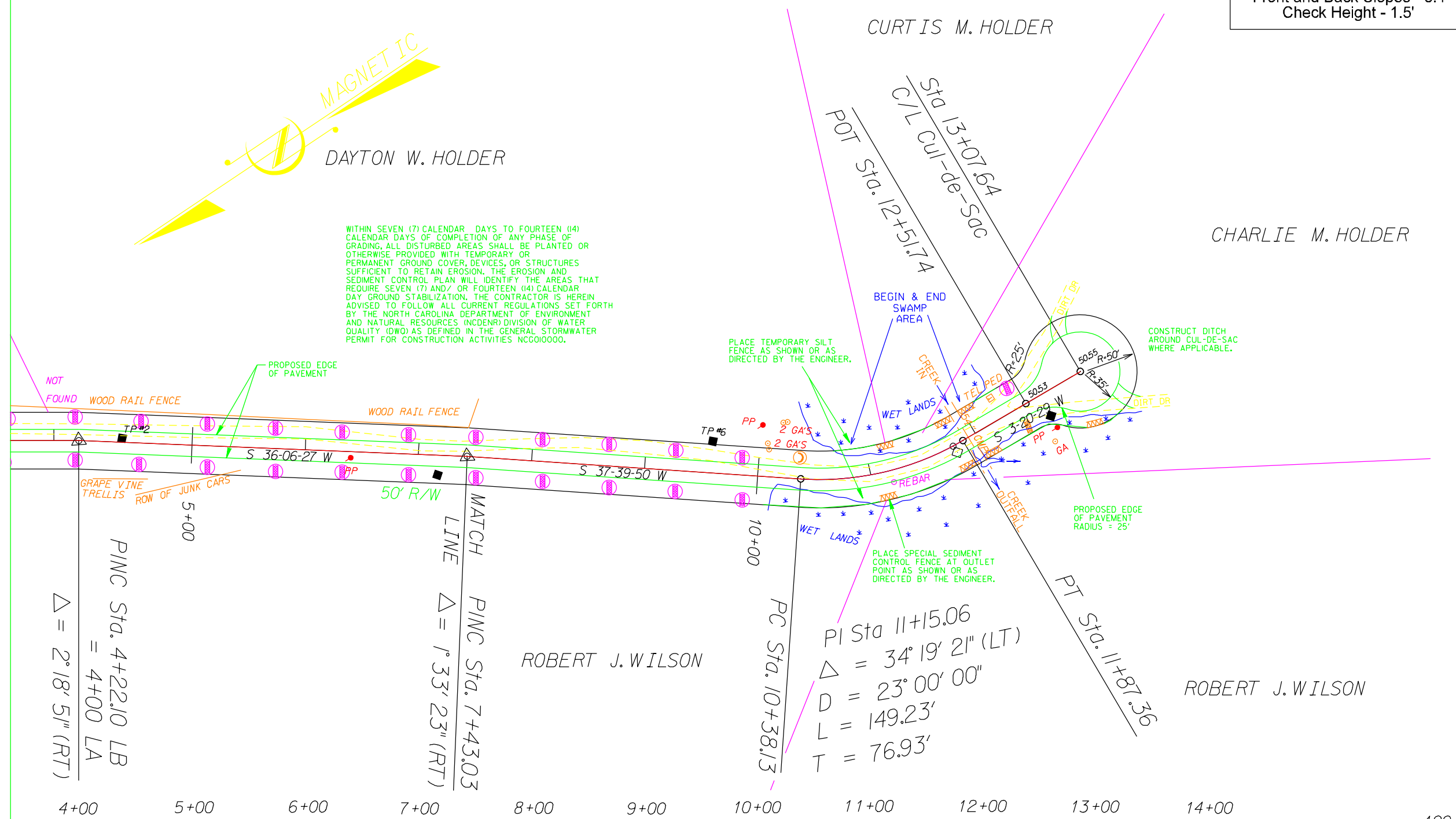
MATCH LINE  
 PINC Sta. 7+43.03  
 $\Delta = 1^\circ 33' 23''$  (RT)



Note: Type A Rock Silt Checks  
Front and Back Slopes - 3:1  
Check Height - 1.5'



WITHIN SEVEN (7) CALENDAR DAYS TO FOURTEEN (14) CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, ALL DISTURBED AREAS SHALL BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE EROSION AND SEDIMENT CONTROL PLAN WILL IDENTIFY THE AREAS THAT REQUIRE SEVEN (7) AND/OR FOURTEEN (14) CALENDAR DAY GROUND STABILIZATION. THE CONTRACTOR IS HEREBY ADVISED TO FOLLOW ALL CURRENT REGULATIONS SET FORTH BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES (NCDENR) DIVISION OF WATER QUALITY (DWQ) AS DEFINED IN THE GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES NCG010000.



PI Sta 11+15.06  
 $\Delta = 34^{\circ} 19' 21''$  (LT)  
 $D = 23^{\circ} 00' 00''$   
 $L = 149.23'$   
 $T = 76.93'$

