



TOWN OF APEX CONSTRUCTION SEQUENCE:

The following begins only after Construction Plans are approved, signed by Town staff and copies are received.

- Through Development Services at (919) 372-7467, schedule a pre-construction meeting with Town staff.
- Request an invoice for the S&E performance guarantee from Development Services at (919) 249-3355.
- Submit the applicable S&E performance guarantee to Development Services at 105-B Upchurch Street, Apex, NC 27502. The erosion control **Letter of Plan Approval** will not be issued until the performance guarantee has been submitted.
- Request a **Letter of Plan Approval** for sedimentation and erosion control measures from Water Resources staff at (919) 372-7470. Submit the **Financial Responsibility/Ownership (FRO)** form and **Request for Plan Approval** form at or within 7 days prior to the pre-construction meeting.
- Complete and submit an electronic **Notice of Intent** (e-NOI) form with NCDEMLR requesting a **Certificate of Coverage (COC)** under the NCG01 Construction Stormwater General Permit. Visit the following website: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/energy-mineral-land-permits/stormwater-permits/construction-sw>
- Complete a Grading Permit Application and receive a Grading Permit from the Building Inspections & Permitting Department as required by the North Carolina Building Code Appendix J for Grading. **Both the Grading Permit and Certificate of Coverage from NCDEMLR must be submitted to the Environmental Field Services Supervisor prior to the commencement of any land disturbance activity.**
- Complete a **Tree/Protection Fencing Installation Permit Application** through the Planning Department.
- Have a surveyor flag property lines, easements, buffers, tree protection areas, and flag the protection limits.
- Contact an Apex Planning Department Zoning Compliance Officer at (919) 249-3426 to request approval for tree protection fencing locations.
- Install approved tree protection fencing, signs, and/or any other protection measures that may be required. Call Planning at (919) 249-3426 for a final inspection of protection measures. Planning will forward approval to Water Resources Erosion Control field staff.
- Install gravel construction entrance, temporary diversions, silt fencing, sediment basins, bypass channels, and/or other measures as shown on the approved plans. Clear only as necessary to install these devices.
- When completed, call Water Resources Erosion Control field staff at (919) 372-7470 for an on-site inspection and to request a **Certificate of Compliance**. Water Resources will also forward a copy to the Building Inspections & Permitting Department.
- Post Grading Permit prominently on site at all times.
- Begin clearing, logging, grubbing, and rough grade of the site in accordance with the approved grading plan.
- Stockpile a sufficient amount of topsoil to cover 3 inches over landscaped areas at the end of the project.
- Install storm sewer, if applicable, and protect inlets with inlet protection devices, sediment devices, and/or other approved measures as shown on plans. Maintain S&E measures as needed.
- After completion of any phase of grading or when land-disturbing activities have temporarily ceased, establish groundcover on swales and ditches and graded slopes steeper than 3:1 within 7 calendar days; slopes that are 3:1 or flatter must establish groundcover within 14 calendar days.
- Stabilize site as areas are brought up to finished grade with vegetation or paving.
- Prior to plat approval, all disturbed areas both public and private, must be properly stabilized. All temporary erosion control measures must be installed, be functioning properly and be maintained for the entire area contained within the plat.
- Flush and clean all stormwater system pipes. Clean and remove sediment from temporary sediment holding devices. Follow the SCM Construction Sequence found on the Grading and/or SCM Detail sheet on the Construction Plan set.
- Remove all temporary diversions, silt fencing, sediment basins, etc. and provide adequate cover or pave any resulting bare areas. All permanent erosion control devices should be installed at this point.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE ENGINEER FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.
- ALL ELEVATIONS ARE IN REFERENCE TO DESIGNATED BENCHMARKS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ILLUSTRATED CONSTRUCTION ACTIVITIES AT THE JOB SITE.
- CONTRACTOR SHALL PROVIDE EXCAVATION AND TRAFFIC CONTROL AS REQUIRED BY LOCAL AUTHORITIES AND ALL APPLICABLE OSHA REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE ENGINEER.
- UTILIZE SIGNS, BARRICADES, FLAG MEN, OR LAW ENFORCEMENT, PER NCDOT STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, AS REQUIRED TO ENSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND ADJACENT PROPERTY OWNERS AS REQUIRED FOR WORK OUTSIDE OF PROPERTY LINES.
- UNDER ABSOLUTELY NO CIRCUMSTANCES SHALL ANY UNMANNED EXCAVATION BE LEFT OPEN OR UNPROTECTED DURING NON-WORKED HOURS. UTILIZE SIGNS, BARRICADES, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES.
- VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY ENGINEER SO THAT MODIFICATIONS TO THESE DRAWINGS CAN BE MADE.
- ALL WORK TO BE PERFORMED ACCORDING TO OSHA SAFETY REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO THE TOWN OF APEX
- FOR ALL REQUIRED INSPECTIONS.
- ALL UTILITIES OR STRUCTURES NOT DESIGNATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH "DUE CARE AND DILIGENCE" SO AS TO PREVENT THE ARBITRARY DESTRUCTION OR INTERRUPTION OF CONCEALED UTILITIES WHICH ARE INTENDED TO REMAIN IN USE, THE ROUTING OF WHICH COULD NOT BE PREDETERMINED UNTIL DEMOLITION WAS STARTED. ALL SUCH DISCOVERIES OF UTILITIES DURING THE DEMOLITION PROCESS WHICH ARE IN A LOCATION DIFFERENT FROM THAT INDICATED OR ARE UNIDENTIFIED, SHALL BE REPORTED TO THE ENGINEER

- AND OWNER BEFORE REMOVAL FOR FINAL DISPOSITION.
- ALL WASTE MATERIAL GENERATED FROM DEMOLITION WORK SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH TOWN OF APEX REGULATIONS.
 - SALVAGEABLE FILL MATERIALS FROM SITE DEMOLITION DETERMINED TO BE ACCEPTABLE BY AN INDEPENDENT SOILS TESTING LABORATORY SHALL BE UTILIZED FOR FILL MATERIAL WHERE APPROPRIATE.
 - ANY NOTE, OR REFERENCE TO ANY ELEMENT, WHICH DOES NOT SPECIFY ACTION BY THE CONTRACTOR SHALL BE CONSTRUED AS INFORMATION ONLY.
 - ALL STRUCTURES/UTILITIES DESIGNATED FOR MODIFICATION SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION.
 - CONTRACTOR SHALL NOTIFY NCDOT DIVISION 5, DISTRICT 1 ENGINEER AT (919) 814-6115, IN ACCORDANCE WITH ALL DRIVEWAY PERMITS & ENCROACHMENT AGREEMENTS, PRIOR TO BEGINNING ANY WORK WITHIN THE STATE MAINTAINED RIGHT OF WAY.

SHEET INDEX

SHEET#	SHEET
1	TITLE SHEET
1A	SHEET INDEX
2A	TYPICAL SECTIONS
2B-2C	DETAILS
3	[NOT USED]
4 THRU 5	PLAN SHEETS
X-1 THRU X-3	CROSS SECTIONS

*** CAUTION ***

N.C. ONE CALL: UTILITY LOCATOR SERVICE

3 DAYS BEFORE DIGGING CALL
TOLL FREE 1-800-632-4949

A ONE CALL SYSTEM FOR COMMUNITY AND JOB SAFETY.

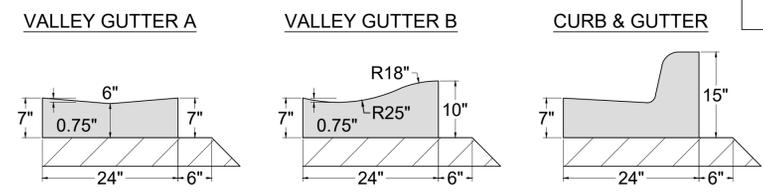
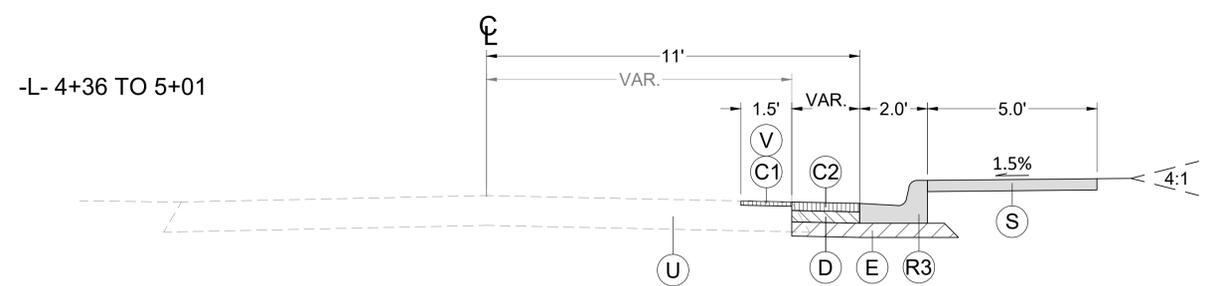
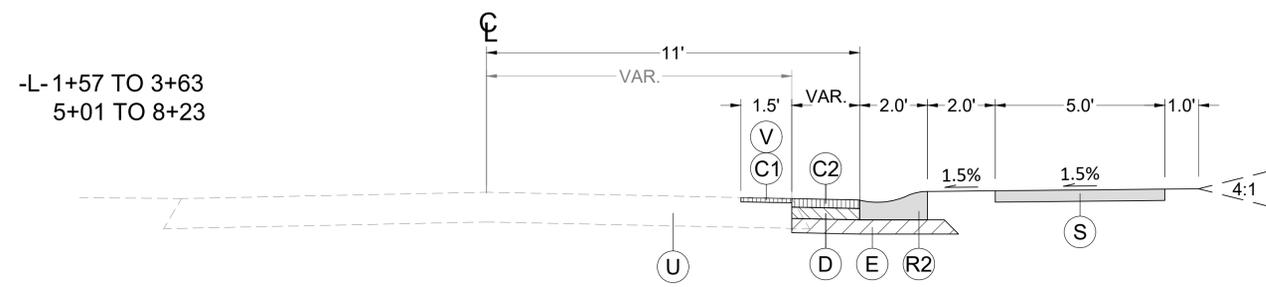
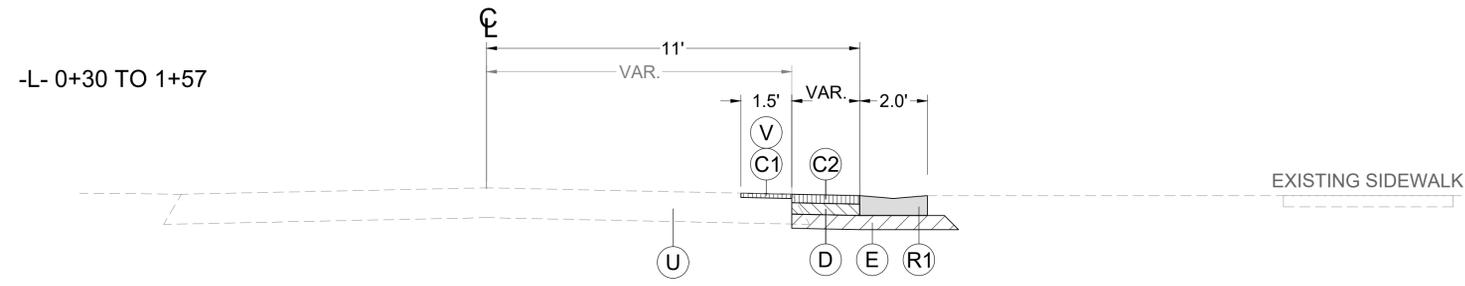
*** CAUTION ***

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



TOWN OF APEX
TRANSPORTATION & INFRASTRUCTURE
DEVELOPMENT
105-B UPCHURCH ST
APEX, NC 27502
919-249-3417

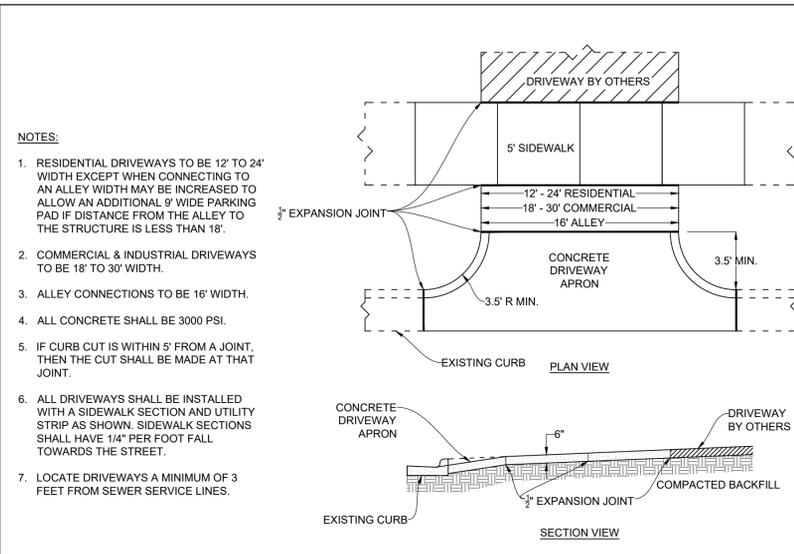
TYPICAL SECTION



PAVEMENT SCHEDULE	
C1	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, 1 1/2 INCH DEPTH
C2	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, 3 INCH DEPTH
D	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, 4 INCH DEPTH
E	ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, 5 INCH DEPTH
R1	24 INCH CONCRETE VALLEY GUTTER A
R2	24 INCH CONCRETE VALLEY GUTTER B
R3	24 INCH CONCRETE CURB & GUTTER
S	CONCRETE SIDEWALK, 4 INCH DEPTH, 6 INCH DEPTH AT DRIVEWAYS
T	TREX BOARDWALK
U	EXISTING PAVEMENT
V	MILLING, 1 1/2 INCH DEPTH

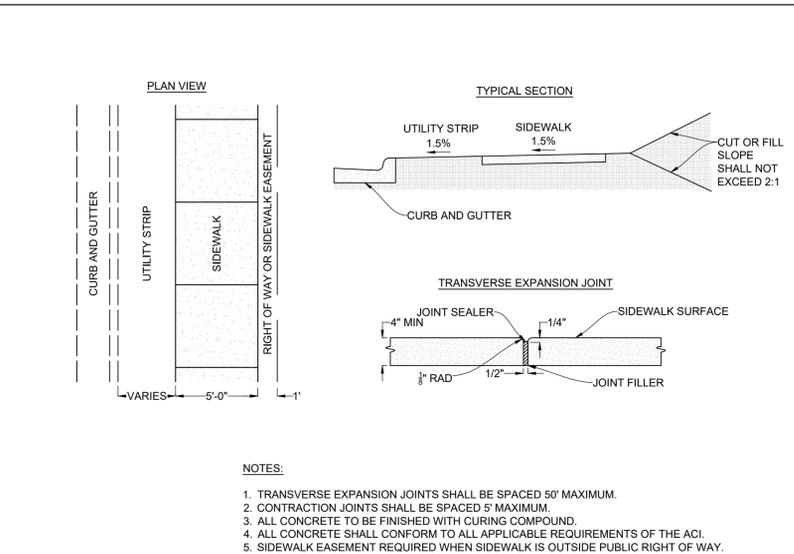


TOWN OF APEX
 TRANSPORTATION & INFRASTRUCTURE
 DEVELOPMENT
 105-B UPCHURCH ST
 APEX, NC 27502
 919-249-3417



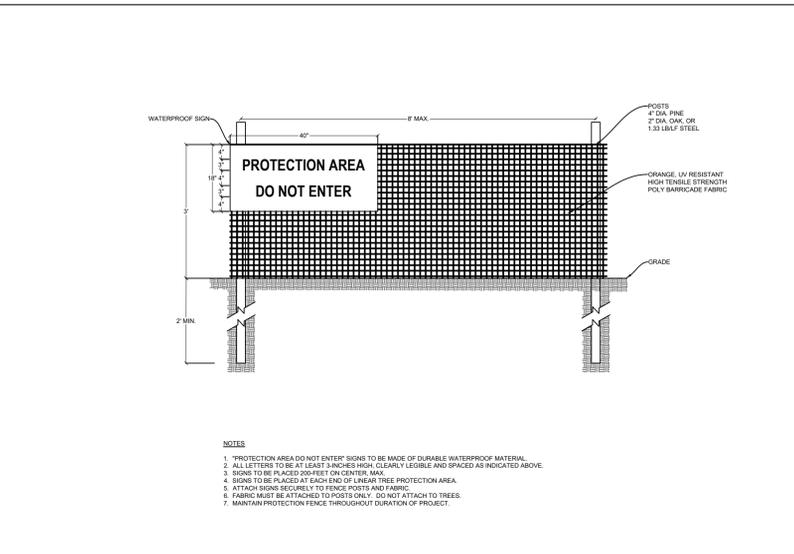
- NOTES:**
- RESIDENTIAL DRIVEWAYS TO BE 12' TO 24' WIDTH EXCEPT WHEN CONNECTING TO AN ALLEY WIDTH MAY BE INCREASED TO ALLOW AN ADDITIONAL 9' WIDE PARKING PAD IF DISTANCE FROM THE ALLEY TO THE STRUCTURE IS LESS THAN 16'.
 - COMMERCIAL & INDUSTRIAL DRIVEWAYS TO BE 18' TO 30' WIDTH.
 - ALLEY CONNECTIONS TO BE 16' WIDTH.
 - ALL CONCRETE SHALL BE 3000 PSI.
 - IF CURB CUT IS WITHIN 5' FROM A JOINT, THEN THE CUT SHALL BE MADE AT THAT JOINT.
 - ALL DRIVEWAYS SHALL BE INSTALLED WITH A SIDEWALK SECTION AND UTILITY STRIP AS SHOWN. SIDEWALK SECTIONS SHALL HAVE 1/4" PER FOOT FALL TOWARDS THE STREET.
 - LOCATE DRIVEWAYS A MINIMUM OF 3 FEET FROM SEWER SERVICE LINES.

TOWN OF APEX STANDARDS
 EFFECTIVE: APRIL 9, 2024
DRIVEWAY APRON (CURB & GUTTER)
 STD. NO. 300.07
 SHEET 1 OF 2



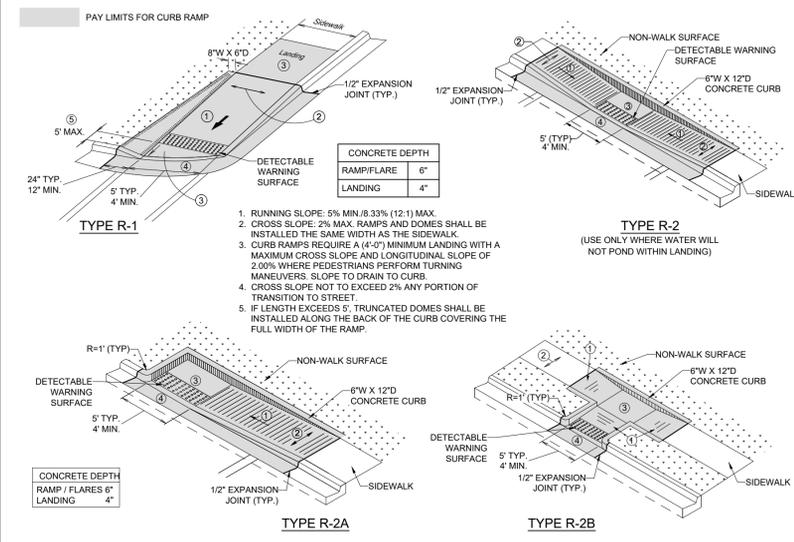
- NOTES:**
- TRANSVERSE EXPANSION JOINTS SHALL BE SPACED 50' MAXIMUM.
 - CONTRACTION JOINTS SHALL BE SPACED 5' MAXIMUM.
 - ALL CONCRETE TO BE FINISHED WITH CURING COMPOUND.
 - ALL CONCRETE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE ACI.
 - SIDEWALK EASEMENT REQUIRED WHEN SIDEWALK IS OUTSIDE PUBLIC RIGHT OF WAY.

TOWN OF APEX STANDARDS
 EFFECTIVE: JUNE 13, 2023
CONCRETE SIDEWALK
 STD. NO. 300.08
 SHEET 1 OF 1

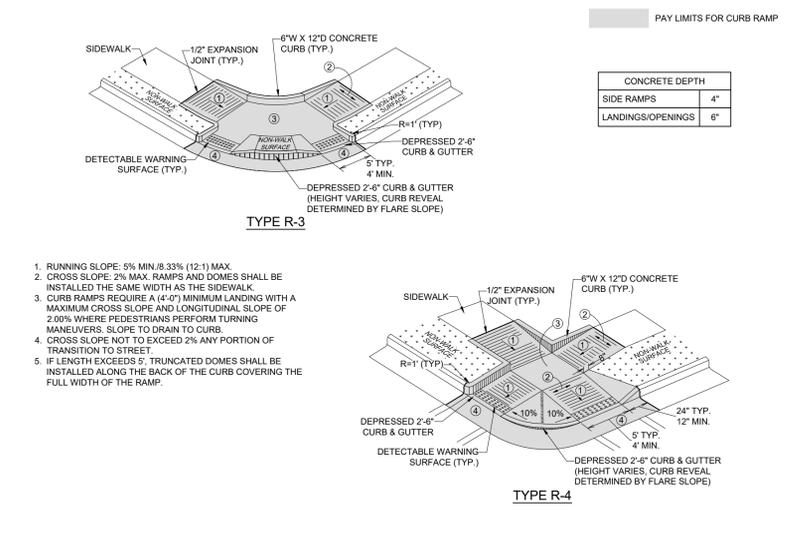


- NOTES:**
- "PROTECTION AREA DO NOT ENTER" SIGNS TO BE MADE OF DURABLE WATERPROOF MATERIAL.
 - ALL LETTERS TO BE AT LEAST 1 INCHES HIGH, CLEARLY LEGIBLE AND SPACED AS INDICATED ABOVE.
 - SIGNS TO BE PLACED 20 FEET ON CENTER, MAX.
 - SIGNS TO BE PLACED AT EACH END OF LINEAR TREE PROTECTION AREA.
 - ALL FABRIC SECURELY TO FENCE POSTS AND FABRIC.
 - FABRIC MUST BE ATTACHED TO POSTS ONLY. DO NOT ATTACH TO TREES.
 - MAINTAIN PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

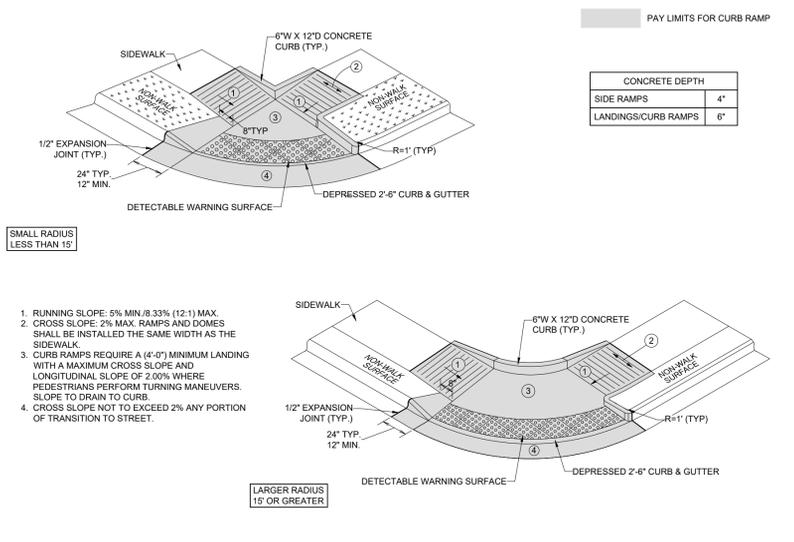
TOWN OF APEX STANDARDS
 EFFECTIVE: APRIL 9, 2024
TREE PROTECTION FENCE
 STD. NO. 300.09
 SHEET 1 OF 1



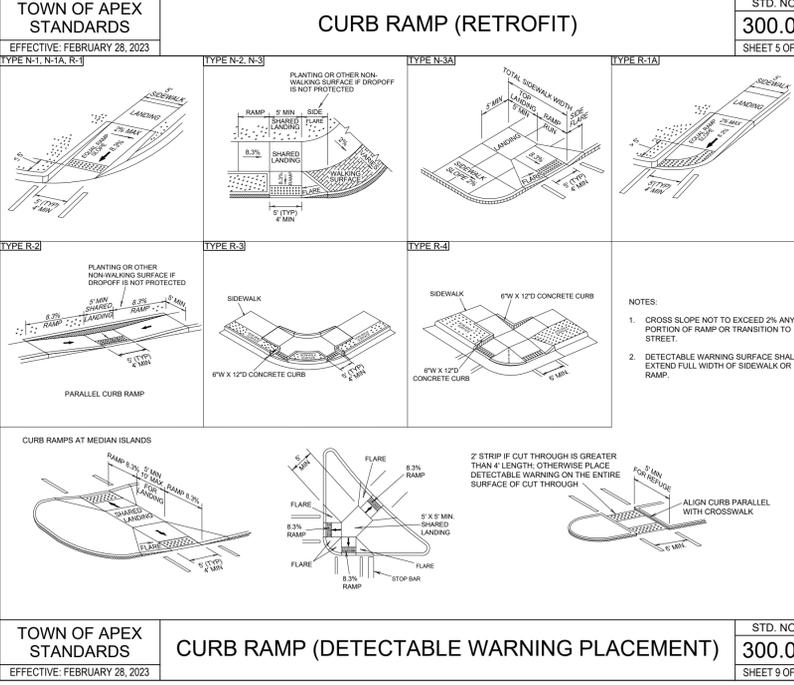
- CONCRETE DEPTH**
- | | |
|------------|----|
| RAMP/FLARE | 6" |
| LANDING | 4" |



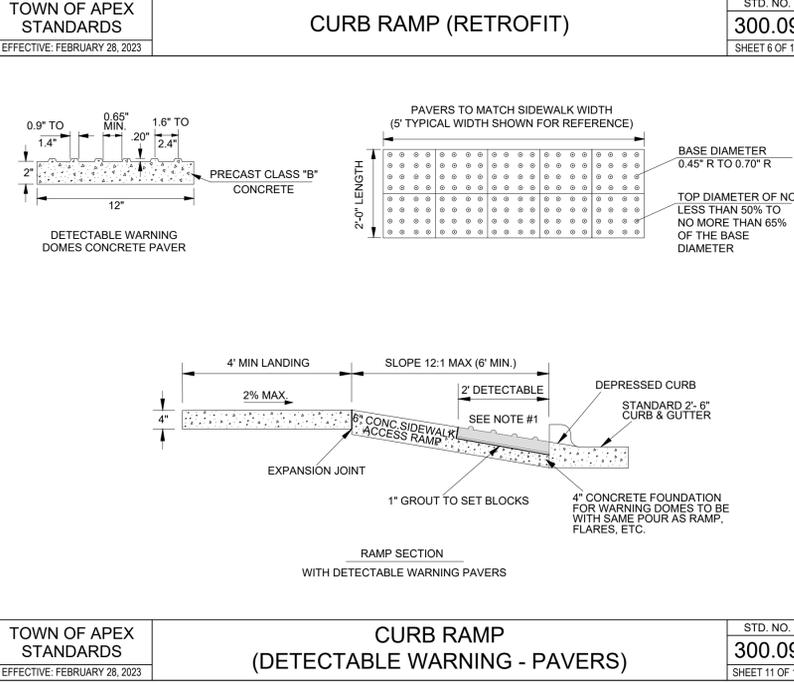
- CONCRETE DEPTH**
- | | |
|-------------------|----|
| SIDE RAMPS | 4" |
| LANDINGS/OPENINGS | 6" |



- CONCRETE DEPTH**
- | | |
|---------------------|----|
| SIDE RAMPS | 4" |
| LANDINGS/CURB RAMPS | 6" |



TOWN OF APEX STANDARDS
 EFFECTIVE: FEBRUARY 28, 2023
CURB RAMP (DETECTABLE WARNING PLACEMENT)
 STD. NO. 300.09
 SHEET 9 OF 14



TOWN OF APEX STANDARDS
 EFFECTIVE: FEBRUARY 28, 2023
CURB RAMP (DETECTABLE WARNING - PAVERS)
 STD. NO. 300.09
 SHEET 11 OF 14

- TOWN OF APEX STANDARDS**
 EFFECTIVE: FEBRUARY 28, 2023
CURB RAMP (RETROFIT, SHARED FLARE)
 STD. NO. 300.09
 SHEET 6 OF 14
- STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
 - CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL, HOWEVER, THE LOCATION MAY BE ADJUSTED WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT.
 - THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE GRAY, CHARCOAL, OR BLACK FOR CONTRAST.
 - RUNNING SLOPE OF RAMPS SHALL BE 5 PERCENT MINIMUM AND 8.3 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
 - IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48". ALL RAMPS SHALL BE INSTALLED AT THE SAME WIDTH AS THE SIDEWALK.
 - USE CLASS A (3,000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.
 - A 1/2" EXPANSION JOINT INSTALLED FULL DEPTH WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
 - CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL.

TOWN OF APEX STANDARDS
 EFFECTIVE: FEBRUARY 28, 2023
CURB RAMP (GENERAL NOTES)
 STD. NO. 300.09
 SHEET 14 OF 14

TYPICAL REGULATORY SIGNS

SIGN SIZES	APPROACH TYPE	
	SINGLE LANE	MULTI-LANE
R1-1 (STOP)	30" x 30"	36" x 36"
R1-2 (YIELD)	36" x 36" x 36"	48" x 48" x 48"
R5-1 (DO NOT ENTER)	30" x 30"	36" x 36"
R2-1 (SPEED LIMIT)	24" x 30"	30" x 36"

* FOR OTHER TYPES OF REGULATORY SIGNS CONSULT THE MUTCD

CROSSWALK SIGNS

SIGN SIZES	APPROACH TYPE	
	SINGLE LANE	MULTI-LANE
W11-2 (PEDESTRIAN)	30" x 30"	36" x 36"
S1-1 (SCHOOL)	36" x 36"	36" x 36"
W16-7P (ARROW PLAQUE)	21" x 15"	21" x 15"
R1-5 (YIELD HERE TO PEDS)	36" x 36"	36" x 36"
R1-6/R1-6b (IN-STREET CROSSING)	12" x 36"	12" x 36"

POST-MOUNTED STREET NAME SIGN (D3-1)

VARIABLES: A, B, C, D, E, F

SIGN TYPE	SIGN DIMENSIONS					
	A	B	C	D	E	F
STANDARD	9"	6"	1.5"	4"	0.75"	0.5"
MULTI-LANE (> 40 MPH)	12"	8"	2"	6"	0.75"	0.5"

NOTES:

- SHEETING MATERIAL FOR ALL SIGNS SHALL BE HIGH INTENSITY PRISMATIC (HIP) TYPE IV MULTI-LAYER SHEETING.
- ALL STREET NAME SIGNS INSTALLED IN RESIDENTIAL AREAS SHALL COMPLY WITH STANDARD DIMENSIONS. STREET NAME SIGNS SHALL BE GREEN WITH WHITE LEGEND AND BORDER. LETTERING SHALL BE COMPOSED OF UPPER AND LOWER-CASE LETTERS. LOWER-CASE LETTERS SHALL BE 75% THE HEIGHT OF UPPER-CASE LETTERS. STREET SUFFIXES SHALL BE UPPER-CASE LETTERS. FONT TYPE SHALL BE HIGHWAY GOTHIC SERIES C. 36-INCH BLADES SHALL BE STANDARD FOR STREET NAMES, WITH 15 CHARACTERS OR LESS.
- STREET NAME SIGNS SHALL BE FABRICATED USING WHITE (HIP) SHEETING AS A BASE LAYER WITH GREEN (HIP) SHEETING OVERLAYERED. THE LEGEND SHALL BE DIGITALLY CUT OR PRINTED FROM THE OVERLAY LAYER.
- PEDESTRIAN WARNING SIGNS AND SCHOOL CROSSING SIGNS SHALL HAVE A FLUORESCENT YELLOW-GREEN BACKGROUND WITH BLACK LEGEND AND BORDERS.
- IF IN-STREET CROSSING SIGNS ARE USED IN SCHOOL AREAS, R1-6b SIGN SHALL BE USED INSTEAD OF R1-6 SIGN.
- REFER TO MUTCD FOR ALL OTHER GUIDANCE.

BREAKAWAY SIGN PLACEMENT

POST INSTALLATION

ANCHOR INSTALLATION

NOTES:

- ON ALL ROADWAYS EXCEPT STREETS WITH STANDARD CURB AND GUTTER AND SPEED LIMITS EQUAL TO OR LESS THAN 25 MPH, ALL SIGNS WITHIN CLEAR ZONE SHALL BE OF A BREAKAWAY DESIGN THAT COMPLIES WITH THE LATEST EDITION OF AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND NCHRP REPORT 350.
- DRIVE ANCHOR MINIMUM 26 INCHES INTO THE GROUND. LEAVE 2 INCHES MINIMUM TO 4 INCHES MAXIMUM TO PROTRUDE ABOVE SURFACE.
- FIT POST INTO ANCHOR. FASTEN CORNER BOLT THROUGH THE FOURTH HOLE ON THE POST AND THE FIRST HOLE ON THE ANCHOR.
- IN AREAS OF WEAK SOILS THE ANCHOR UNIT MAY BE BACKFILLED WITH CONCRETE, IF DETERMINED BY THE INSPECTOR.

DIAMOND

A	B	C	D	E
18" / 24"	15"	16"	18" / 24"	1.5"
30"	3"	16"	15"	1.875"
36"	3"	16"	15"	2.25"

VERTICAL RECTANGLE

A	B	C	D	E	F
12"	18"	1.5"	-	-	1.5"
18"	24"	1.5"	-	-	1.5"
24"	30"	3"	-	-	1.875"
30"	36"	3"	15"	-	1.875"
36"	42"	3"	18"	16"	2.25"

PENTAGON (SCHOOL)

A	B	C	D	E	F
12"	1"	-	-	-	1.5"
18" / 24"	1.5"	-	-	-	1.5"
30"	3"	-	-	-	1.875"
36"	3"	-	16"	15"	2.25"

SQUARE

A	B	C	D	E
12"	1"	-	-	1.5"
18" / 24"	1.5"	-	-	1.5"
30"	3"	-	-	1.875"
36"	3"	16"	15"	2.25"

EQUILATERAL TRIANGLE

A	B	C	D	E
12"	2"	24"	-	1.5"
18"	3"	32"	16"	1.5"

PROJECT REFERENCE NO. SHEET NO. 2C

TOWN OF APEX
TRANSPORTATION & INFRASTRUCTURE DEVELOPMENT
105-B UPCHURCH ST
APEX, NC 27502
919-249-3417

TOWN OF APEX STANDARDS
EFFECTIVE: SEPTEMBER 24, 2024

STREET SIGNS GENERAL
STD. NO. 300.26
SHEET 1 OF 4

TOWN OF APEX STANDARDS
EFFECTIVE: APRIL 9, 2024

STREET SIGNS BREAKAWAY SIGN INSTALLATION
STD. NO. 300.26
SHEET 4 OF 4

SIGN PLACEMENT

NOTES:

- MINIMUM LATERAL OFFSET FROM EDGE OF TRAVELED WAY SHOULD BE 12 FEET.
- ON CURB SECTIONS PROVIDE A MINIMUM VERTICAL CLEARANCE OF 7 FEET FROM EDGE OF TRAVELED WAY. WHERE SIDEWALKS ARE PRESENT PROVIDE A MINIMUM VERTICAL CLEARANCE OF 7 FEET FROM EDGE OF TRAVELED WAY OR TOP OF SIDEWALK, WHICHEVER IS HIGHER.
- WHERE CROSSWALKS EXIST, SIGNS SHOULD BE PLACED WITHIN 4 FEET IN ADVANCE OF THE CROSSWALK. STREET NAME SIGNS MAY BE PLACED ABOVE A REGULATORY STOP OR YIELD SIGN WITH NO REQUIRED VERTICAL SEPARATION.
- ALL NEW SIGNS SHALL BE POSTED ON 14 GAUGE, 2" PERFORATED SQUARE SIGN POSTS. ALL STREET NAME SIGNS RETROFITTED TO EXISTING U-CHEMEL SHALL BE POSTED ON 1.5" SQUARE SIGN POSTS. SIGN RETROFITTING SHALL BE FOR TOWN USE ONLY.
- ON ALL ROADWAYS EXCEPT STREETS WITH STANDARD CURB AND GUTTER AND SPEED LIMITS EQUAL TO OR LESS THAN 25 MPH, ALL SIGNS WITHIN CLEAR ZONE SHALL BE OF A BREAKAWAY DESIGN THAT COMPLIES WITH THE LATEST EDITION OF AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND NCHRP REPORT 350.
- IN AREAS OF WEAK SOILS A BREAKAWAY ANCHOR UNIT SHALL BE USED AND BACKFILLED WITH CONCRETE, IF DETERMINED BY THE INSPECTOR.

SIGN MOUNTING DETAIL

RETROFIT ASSEMBLY DETAIL (TOWN USE ONLY)

NOTES:

- MINIMUM LATERAL OFFSET FROM EDGE OF TRAVELED WAY SHOULD BE 12 FEET.
- ON CURB SECTIONS PROVIDE A MINIMUM VERTICAL CLEARANCE OF 7 FEET FROM EDGE OF TRAVELED WAY. WHERE SIDEWALKS ARE PRESENT PROVIDE A MINIMUM VERTICAL CLEARANCE OF 7 FEET FROM EDGE OF TRAVELED WAY OR TOP OF SIDEWALK, WHICHEVER IS HIGHER.
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- ON ALL ROADWAYS EXCEPT STREETS WITH STANDARD CURB AND GUTTER AND SPEED LIMITS EQUAL TO OR LESS THAN 25 MPH, ALL SIGNS WITHIN CLEAR ZONE SHALL BE OF A BREAKAWAY DESIGN THAT COMPLIES WITH THE LATEST EDITION OF AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND NCHRP REPORT 350.
- IN AREAS OF WEAK SOILS A BREAKAWAY ANCHOR UNIT SHALL BE USED AND BACKFILLED WITH CONCRETE, IF DETERMINED BY THE INSPECTOR.

GENERAL NOTES:

- SUPER SILT FENCE TO BE USED WHEN STANDARD IS INADEQUATE, AS DIRECTED BY THE ENGINEER.
- DO NOT USE IN AREAS OF CONCENTRATED FLOW.
- END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
- WRAP THE SILT FENCE AROUND ALL EXISTING FIRE HYDRANTS WITH 5' OF CLEARANCE, SO THAT THEY ARE FULLY VISIBLE FROM THE ROADWAY.
- SILT FENCE SHOULD BE A MINIMUM OF 5 FEET FROM THE TOE OF SLOPE.
- OVERLAP 12 INCHES WHEN SPLICING FABRIC.
- ANCHORING OF TOE OF FENCE IN TRENCH SHALL BE WITH COMPACTED NCDOT #5 OR #57 WASHED STONE.

MAINTENANCE NOTES:

- REMOVE SEDIMENT WHEN AT HALF HEIGHT OF SILT FENCE.
- REPAIR OR REPLACE FENCE IMMEDIATELY WHEN TEARS, HOLES, SAGGING, COLLAPSE, OR OTHER DEFICIENCIES FOUND.
- THE DESIGN LIFE OF A SYNTHETIC SILT FENCE IS APPROX. 6 MONTHS. DETERIORATED SILT FENCE MUST BE REPLACED.
- SILT FENCE SHALL BE INSPECTED WEEKLY OR AFTER 1 INCH RAIN EVENT.
- USE #57 WASHED STONE FOR REPAIR OF SILT FENCE FAILURES, AND FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

GENERAL NOTES:

- USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE PER 100 LF OF FENCE AND NEVER IN AREAS OF CONCENTRATED FLOW.
- END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
- WRAP THE SILT FENCE AROUND ALL EXISTING FIRE HYDRANTS SO THEY ARE FULLY VISIBLE FROM THE ROADWAY.
- SILT FENCE SHOULD BE A MINIMUM OF 5 FEET FROM THE TOE OF SLOPE.
- OVERLAP 12 INCHES WHEN SPLICING FABRIC.
- ANCHORING OF TOE OF FENCE SHOULD BE REINFORCED WITH 12 INCHES OF NCDOT #5 OR #57 WASHED STONE WHEN FLOW WILL RUN PARALLEL TO TOE OF FENCE.

MAINTENANCE NOTES:

- REMOVE SEDIMENT WHEN AT HALF HEIGHT OF SILT FENCE.
- REPAIR OR REPLACE FENCE IMMEDIATELY WHEN TEARS, HOLES, SAGGING, COLLAPSE, OR OTHER DEFICIENCIES FOUND.
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TOWN OF APEX STANDARDS
EFFECTIVE: APRIL 9, 2024

STREET SIGNS PLACEMENT & INSTALLATION
STD. NO. 300.26
SHEET 2 OF 4

TOWN OF APEX STANDARDS
EFFECTIVE: JUNE 11, 2024

TEMPORARY SILT FENCE (SUPER SILT FENCE)
STD. NO. 400.01
SHEET 2 OF 2

TOWN OF APEX STANDARDS
EFFECTIVE: JUNE 11, 2024

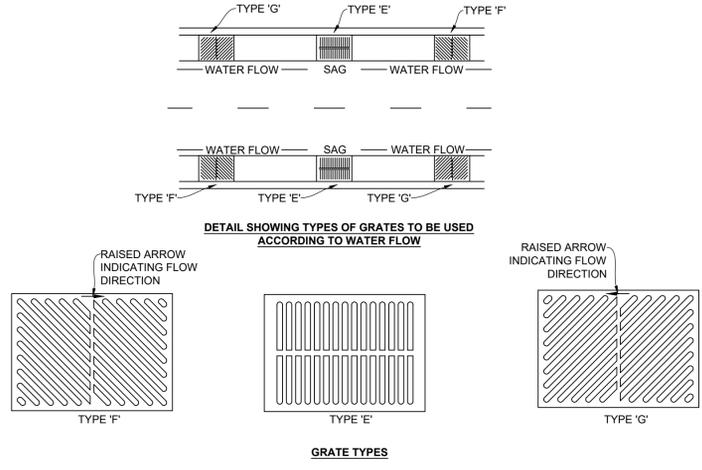
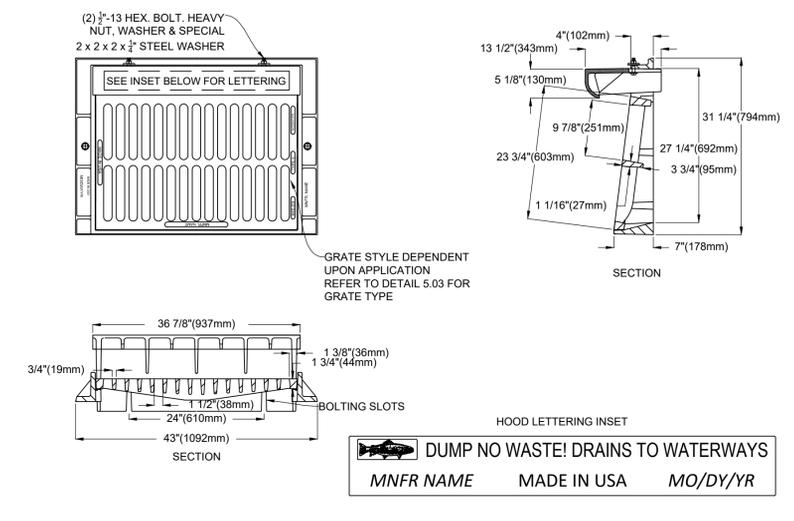
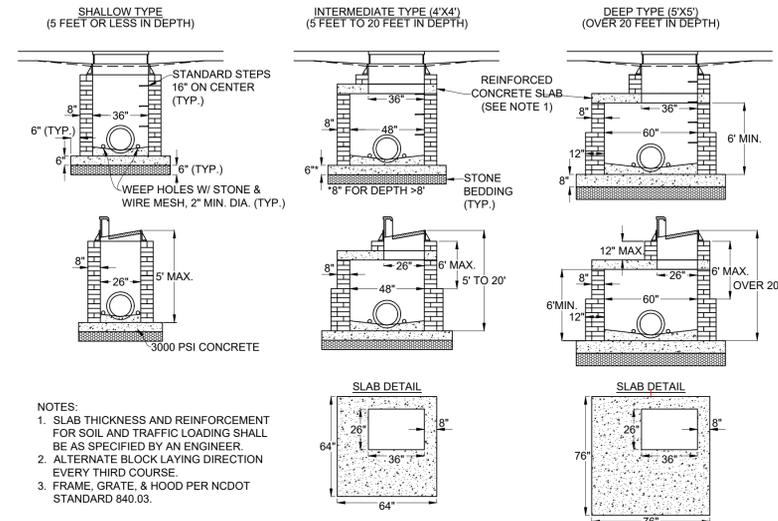
TEMPORARY SILT FENCE OUTLET
STD. NO. 400.02
SHEET 1 OF 1

TOWN OF APEX STANDARDS
EFFECTIVE: JUNE 11, 2024

TEMPORARY SILT FENCE
STD. NO. 400.01
SHEET 1 OF 2



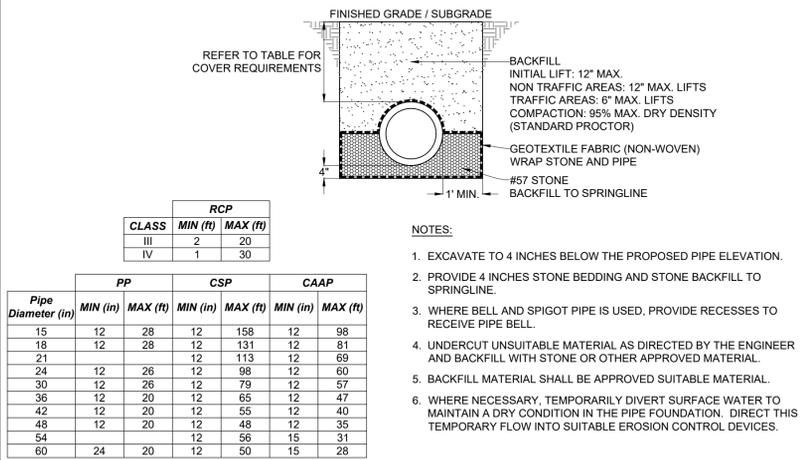
TOWN OF APEX
TRANSPORTATION & INFRASTRUCTURE
DEVELOPMENT
105-B UPCHURCH ST
APEX, NC 27502
919-249-3417



TOWN OF APEX STANDARDS GRATE PLACEMENT DETAIL FOR CATCH BASIN STD. NO. 500.03 SHEET 1 OF 1
EFFECTIVE: DECEMBER 3, 2002

TOWN OF APEX STANDARDS BLOCK CATCH BASIN DETAIL STD. NO. 500.04 SHEET 1 OF 1
EFFECTIVE: DECEMBER 18, 2012

TOWN OF APEX STANDARDS FRAME DETAIL FOR CATCH BASIN STD. NO. 500.08 SHEET 1 OF 1
EFFECTIVE: DECEMBER 3, 2002

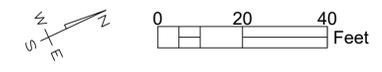


TOWN OF APEX STANDARDS STORM DRAIN PIPE BEDDING & BACKFILLING STD. NO. 500.09 SHEET 1 OF 1
EFFECTIVE: JUNE 11, 2024

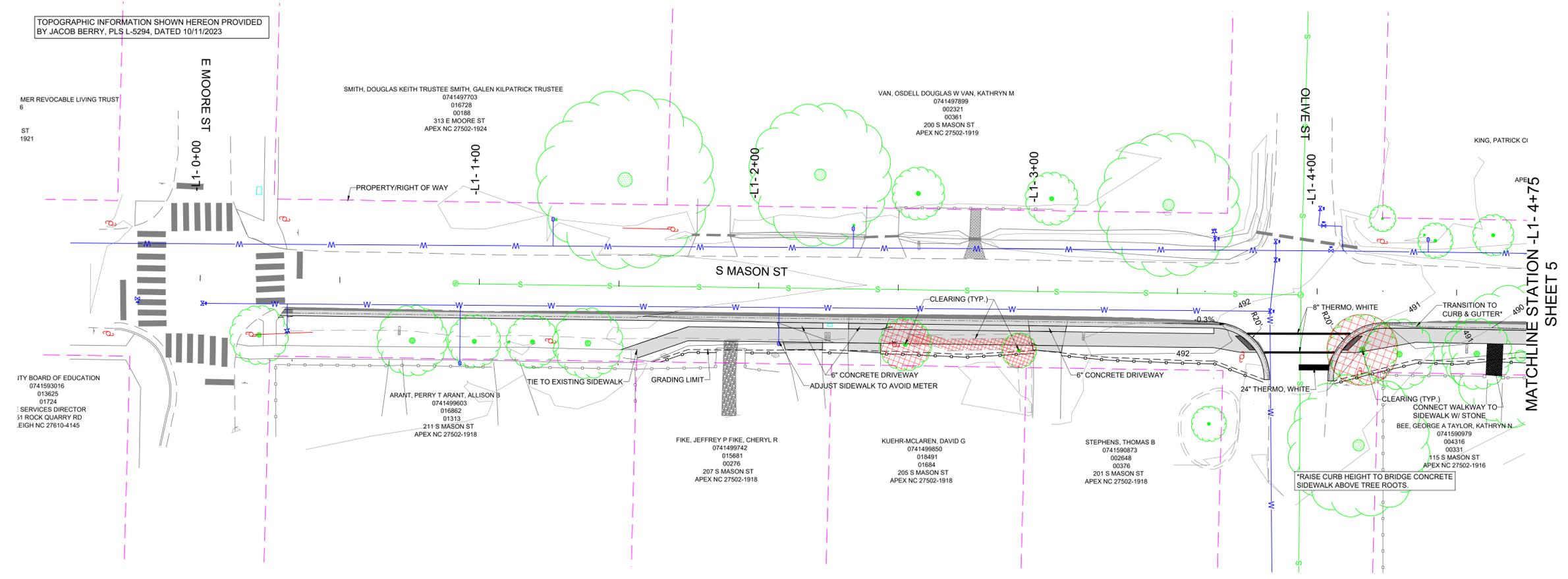


ALL TREES IMPACTED BUT NOT IDENTIFIED TO BE CLEARED: ROOTS SHALL BE EXPOSED WITH AIR SPADE AND PRUNED BY CERTIFIED ARBORIST.

ANY METERS OR CLEANOUTS FOUND DURING CONSTRUCTION AND IN CONFLICT WITH THE SIDEWALK WILL REQUIRE A PLAN REVISION IN ORDER TO ADDRESS RELOCATION.

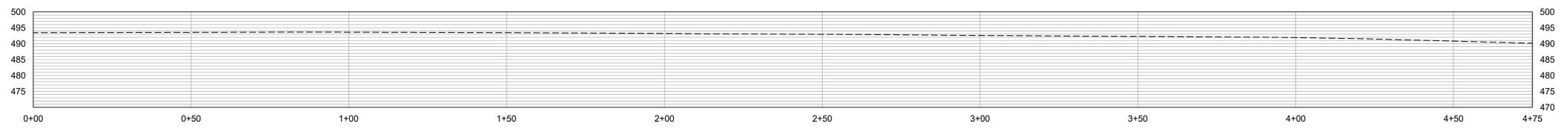


TOPOGRAPHIC INFORMATION SHOWN HEREON PROVIDED BY JACOB BERRY, PLS L-5294, DATED 10/11/2023



LEGEND

- ELECTRIC UTILITY
- TELECOM UTILITY
- SAN. SEWER
- WATER DISTRIBUTION
- GAS UTILITY
- - - PROPERTY/ROW
- UTILITY POLE
- PROPERTY CORNER
- ⊕ FIRE HYDRANT
- SEWER MANHOLE
- ⊕ WATER VALVE
- SILT/TREE PROTECTION FENCE

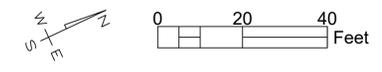


MATCHLINE STATION -L1- 4+75
SHEET 5

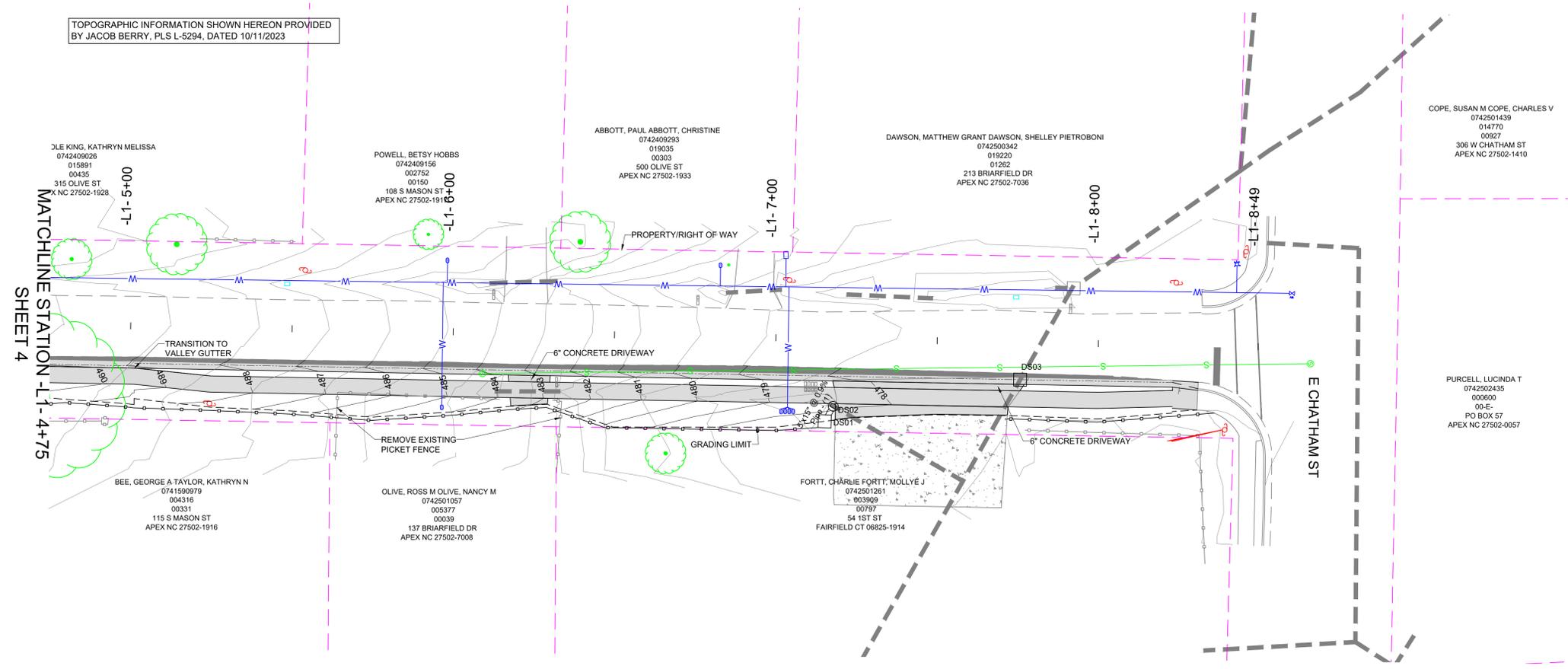


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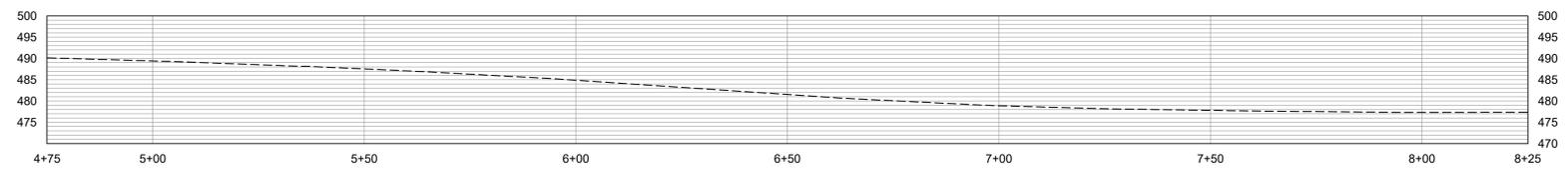
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TOPOGRAPHIC INFORMATION SHOWN HEREON PROVIDED BY JACOB BERRY, PLS L-5294, DATED 10/11/2023



- LEGEND**
- ELECTRIC UTILITY
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 - PROPERTY CORNER
 - ⊕ FIRE HYDRANT
 - ⊕ SEWER MANHOLE
 - ⊕ WATER VALVE
 - SILT/TREE PROTECTION FENCE



MATCHLINE STATION -L1- 4+75
SHEET 4

BEE, GEORGE A TAYLOR, KATHRYN N
0741590979
004316
00331
115 S MASON ST
APEX NC 27502-1916

OLIVE, ROSS M OLIVE, NANCY M
0742501057
005377
00039
137 BRIARFIELD DR
APEX NC 27502-7008

POWELL, BETSY HOBBS
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002752
00150
108 S MASON ST
APEX NC 27502-1916

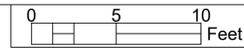
ABBOTT, PAUL ABBOTT, CHRISTINE
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500 OLIVE ST
APEX NC 27502-1933

DAWSON, MATTHEW GRANT DAWSON, SHELLEY PIETROBONI
0742500342
019220
01262
213 BRIARFIELD DR
APEX NC 27502-7036

COPE, SUSAN M COPE, CHARLES V
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306 W CHATHAM ST
APEX NC 27502-1410

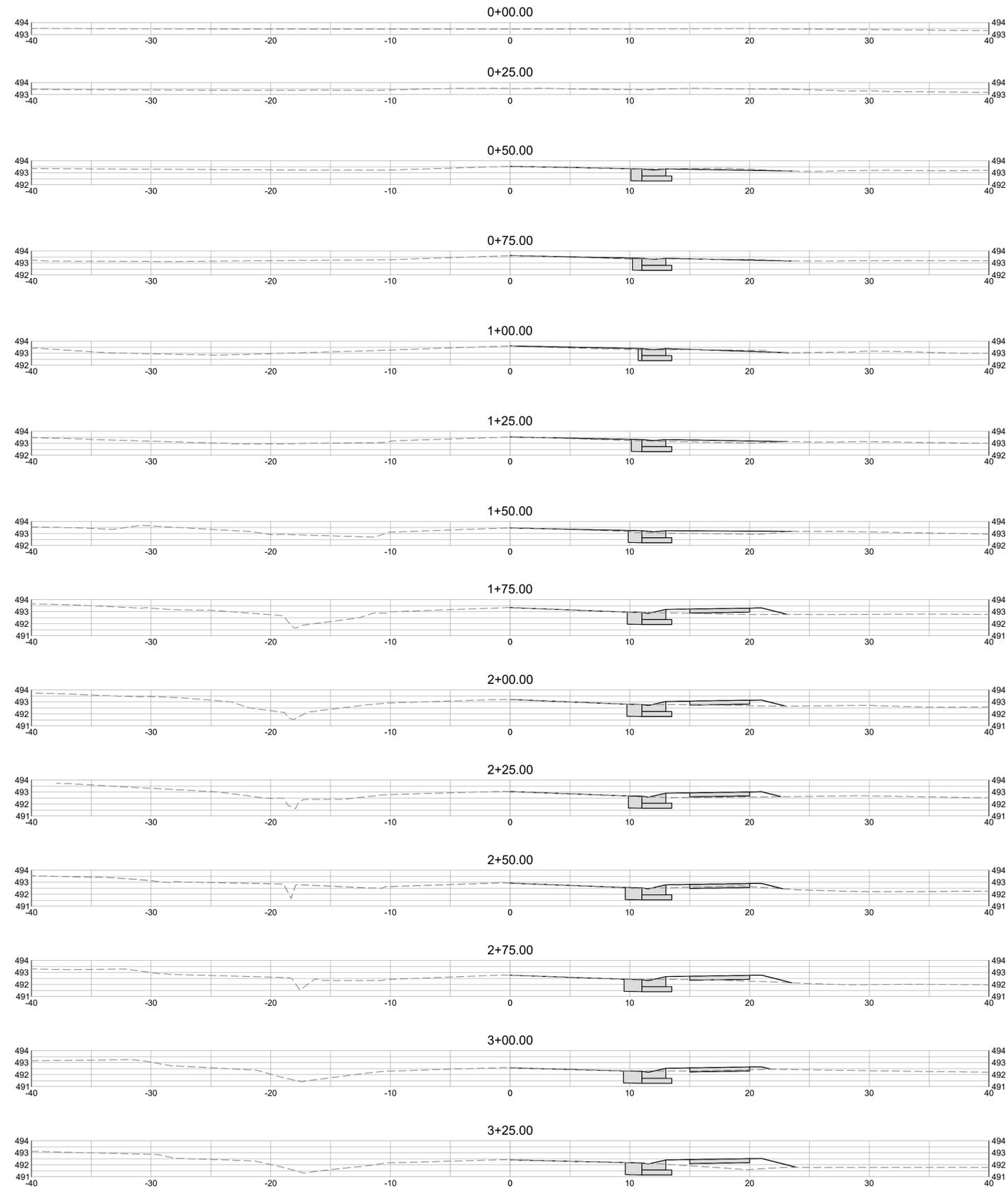
FORTT, CHARLIE FORTT, MOLLY J
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00797
54 1ST ST
FAIRFIELD CT 06825-1914

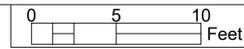
PURCELL, LUCINDA T
0742502435
000600
00-E
PO BOX 57
APEX NC 27502-0057



PROJECT REFERENCE NO.

SHEET NO.
X-1





PROJECT REFERENCE NO.

SHEET NO.
X-2

