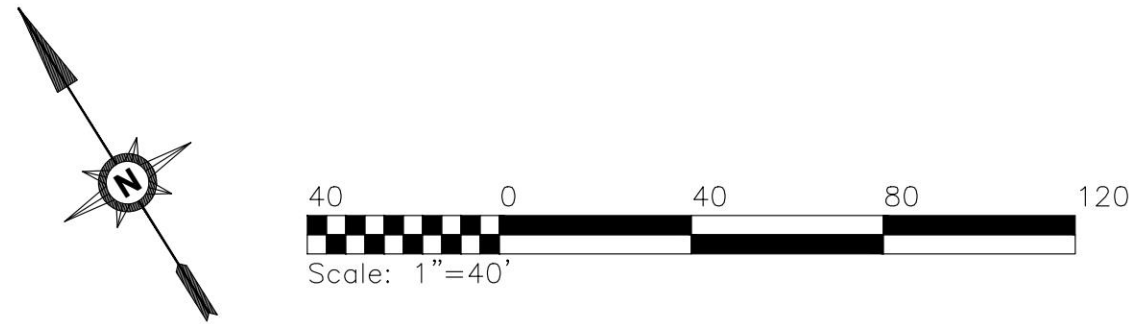
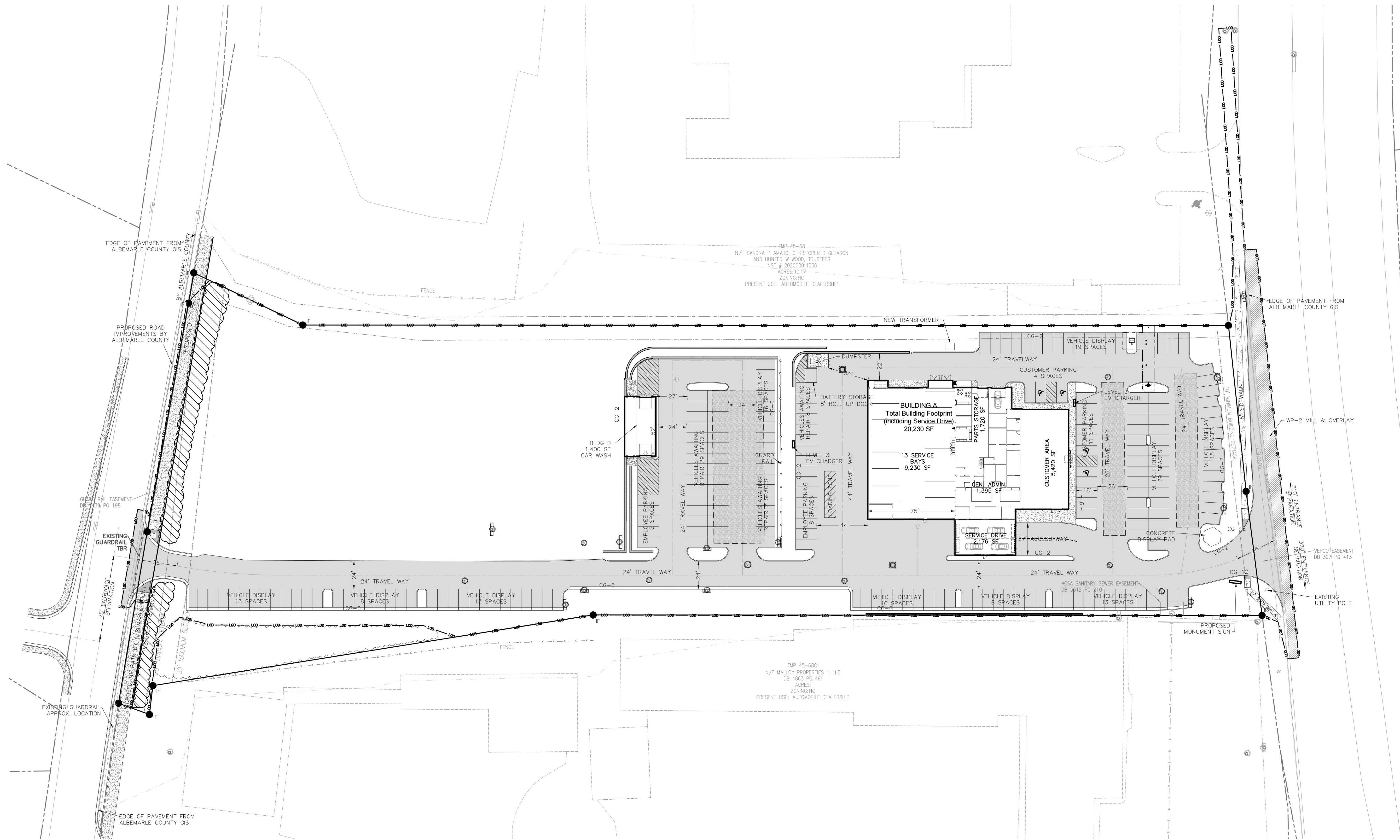




C2



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SITE DEVELOPMENT PLAN FOR
Flow Hyundai

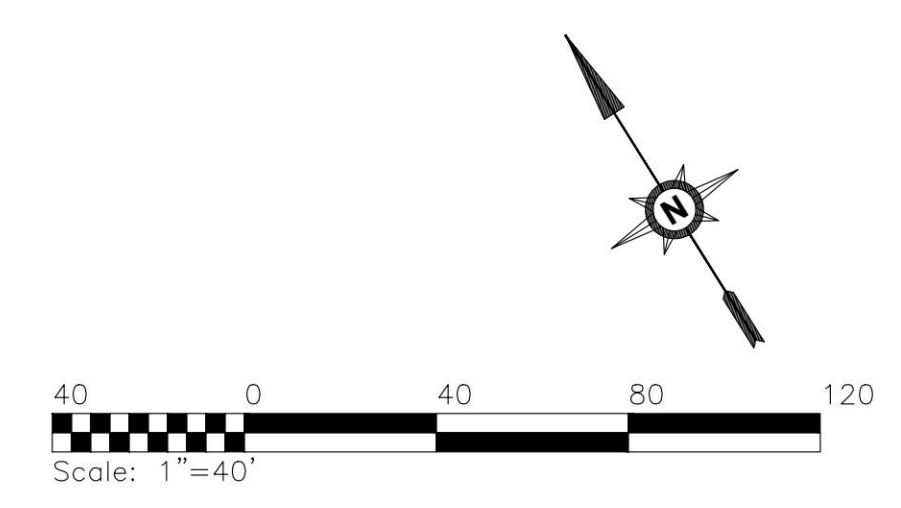
ALBEMARLE COUNTY, VIRGINIA

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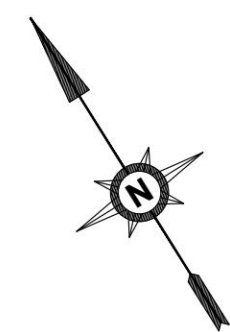
REVISION:

FILE NO. 23.071

SITE PLAN



C3



C4

EDGE OF PAVEMENT FROM
ALBEMARLE COUNTY GIS

CONNECT TO
BERKMAR
SANITARY PIPE

FENCE

BERKMAR DRIVE (RT 140)
50' AND 13' SIDE
DR 13'25' PG 488

15" RCP

15" RCP

EXISTING
GUARDRAIL
TBR

MINIMUM SETBACK

SEE SHEET C7



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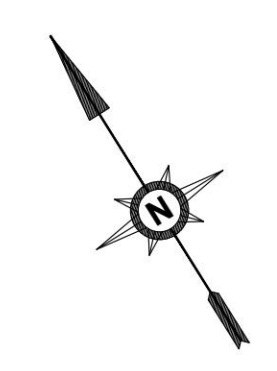
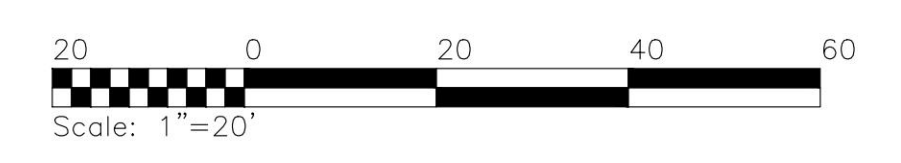
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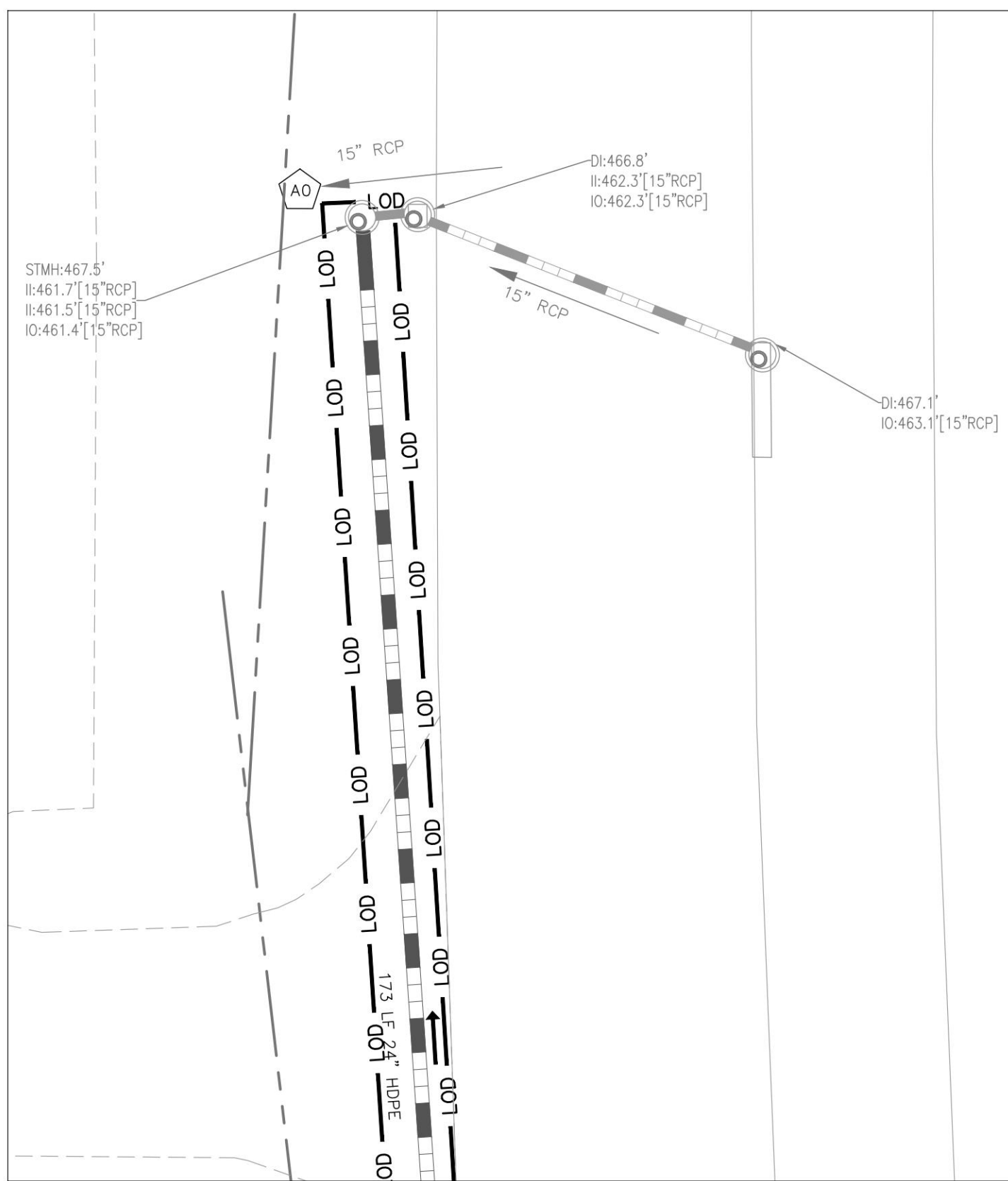
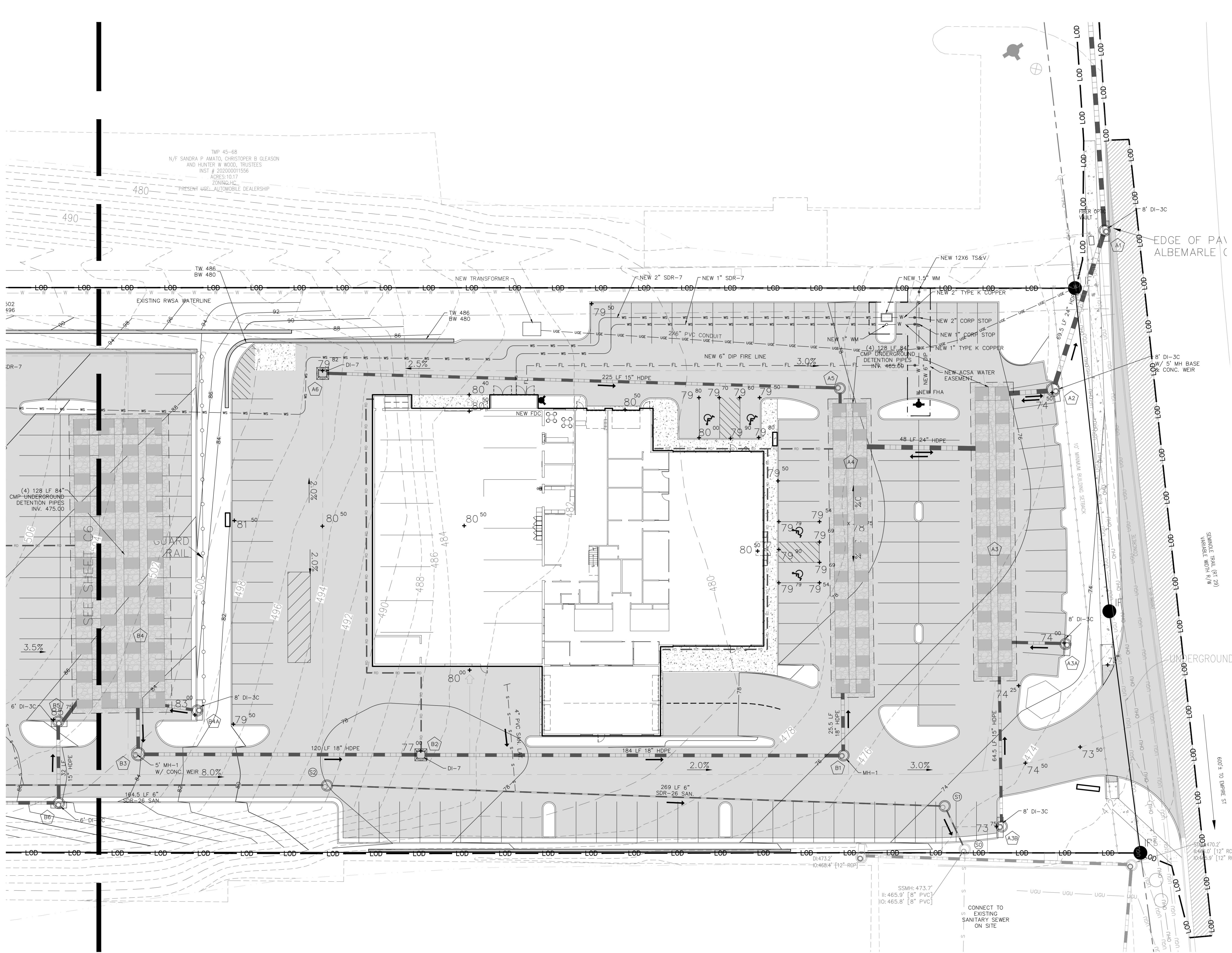
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UTILITY PLAN



C6



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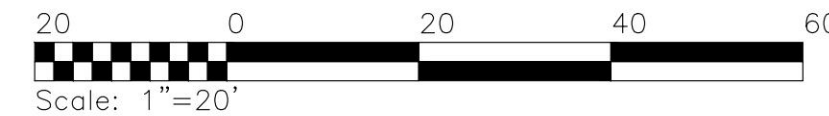
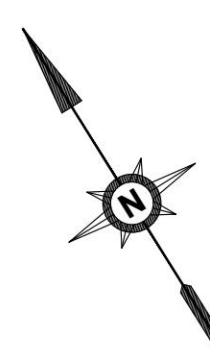


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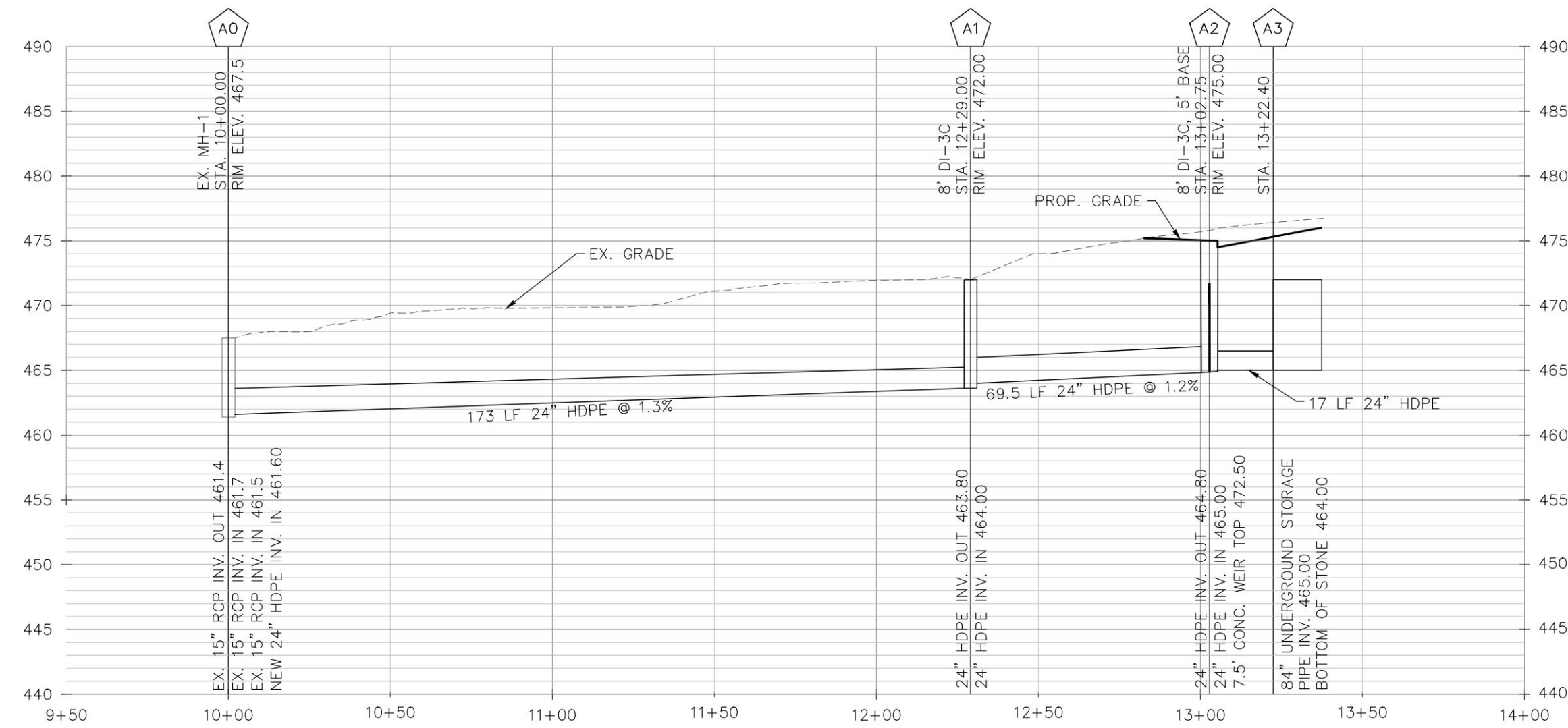
ALBEMARLE COUNTY, VIRGINIA
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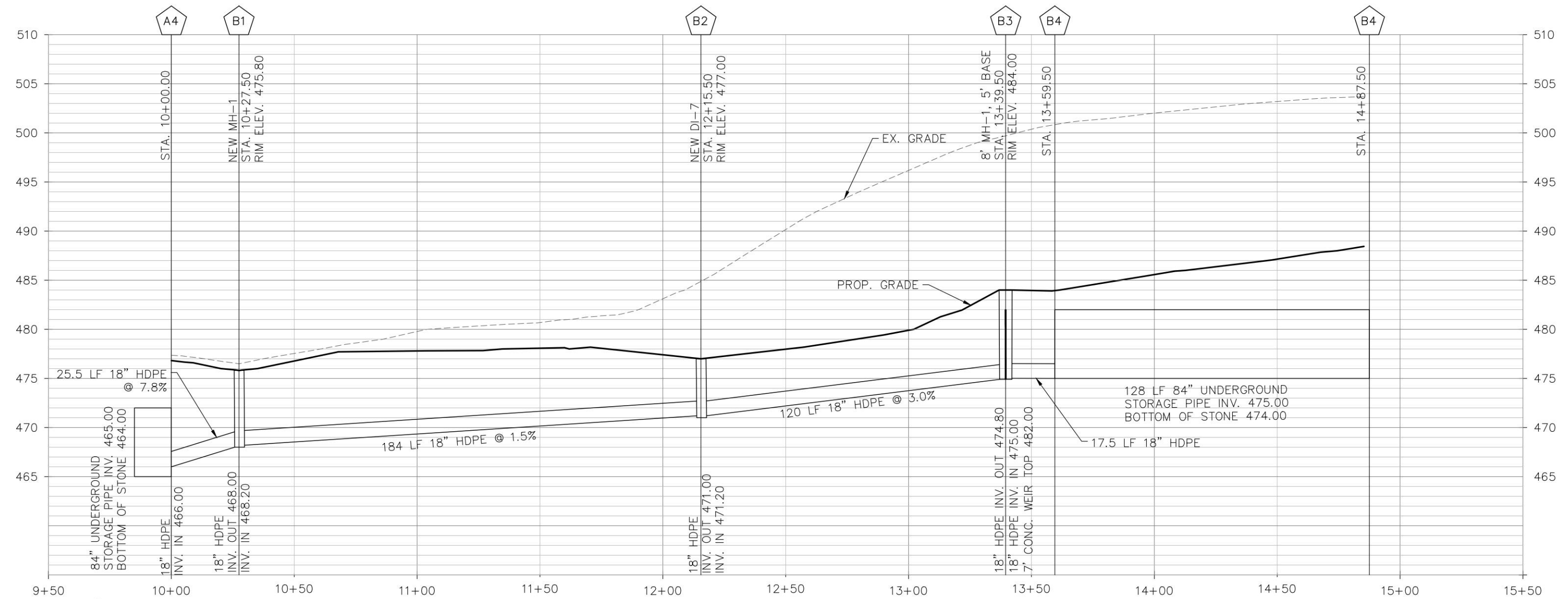
UTILITY PLAN



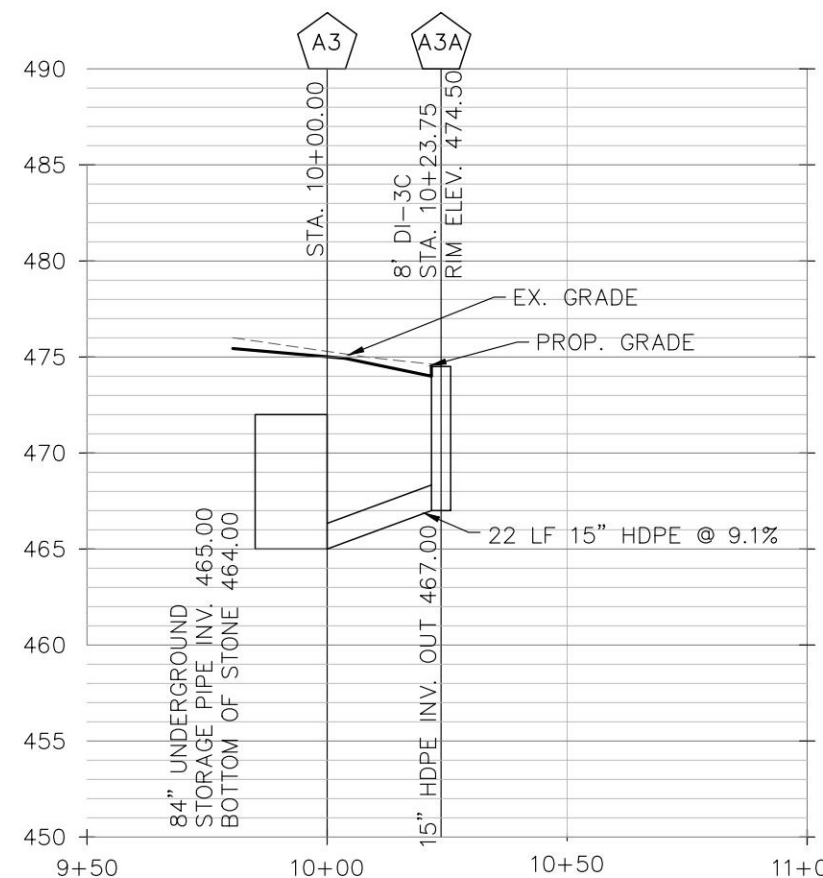
C7



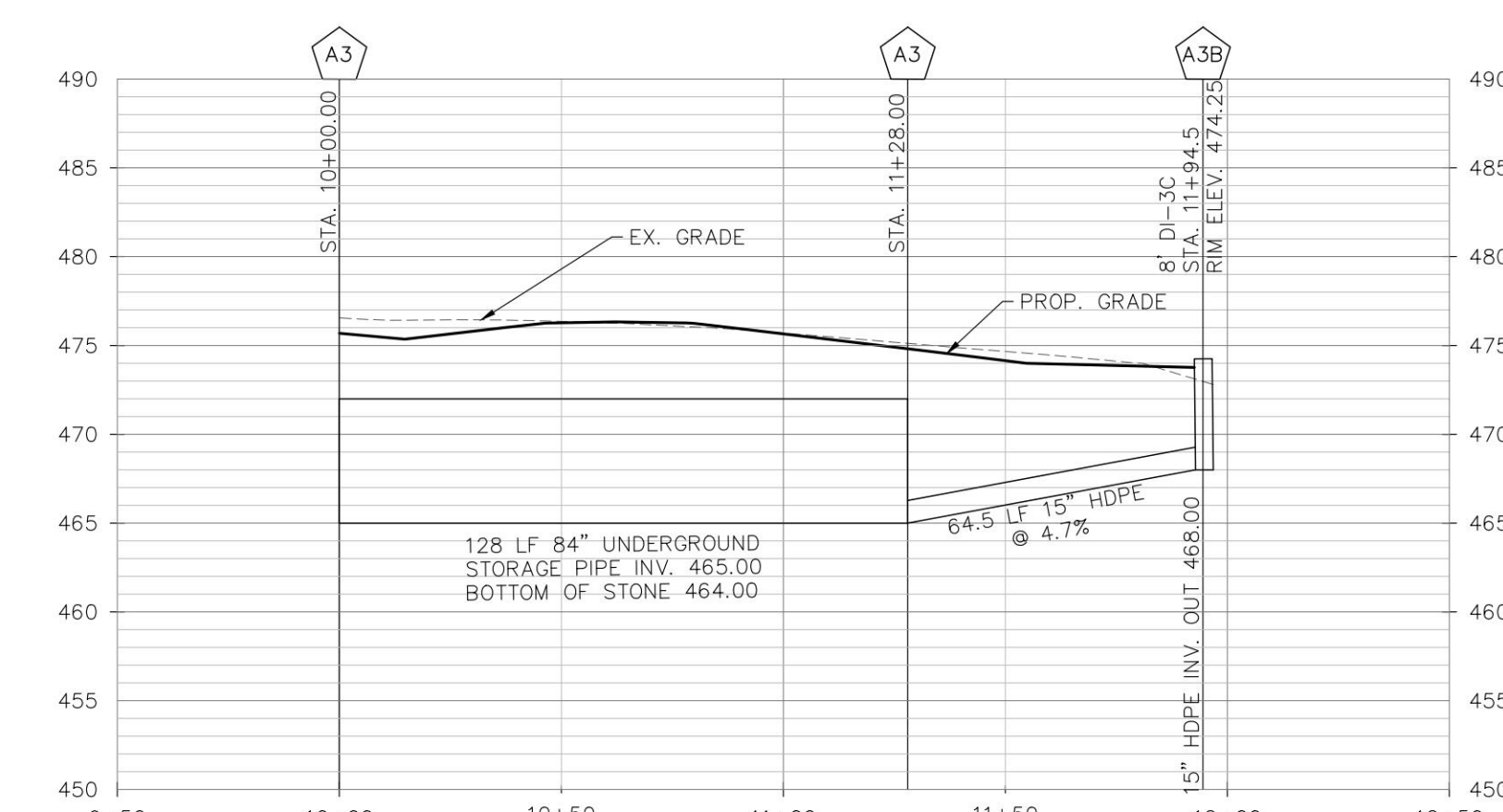
1 STORM PROFILE STR. A0-A3
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



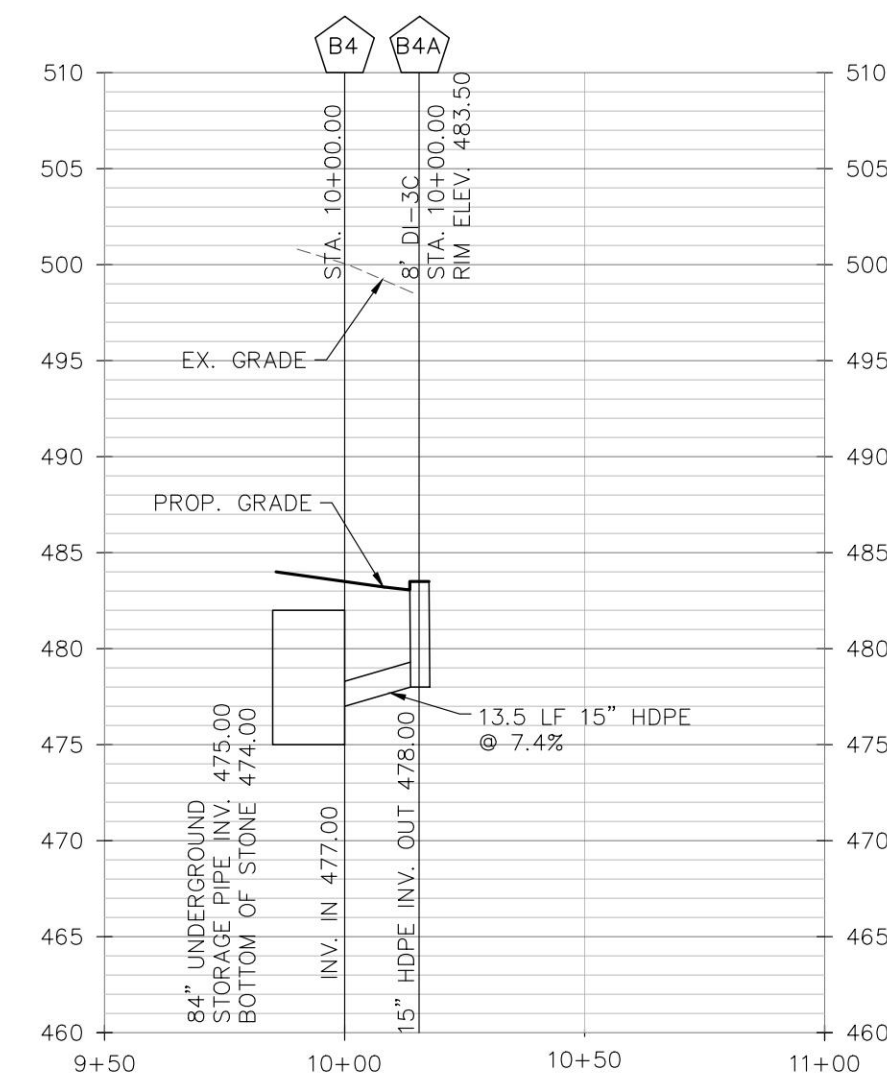
5 STORM PROFILE STR. A4-B4
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



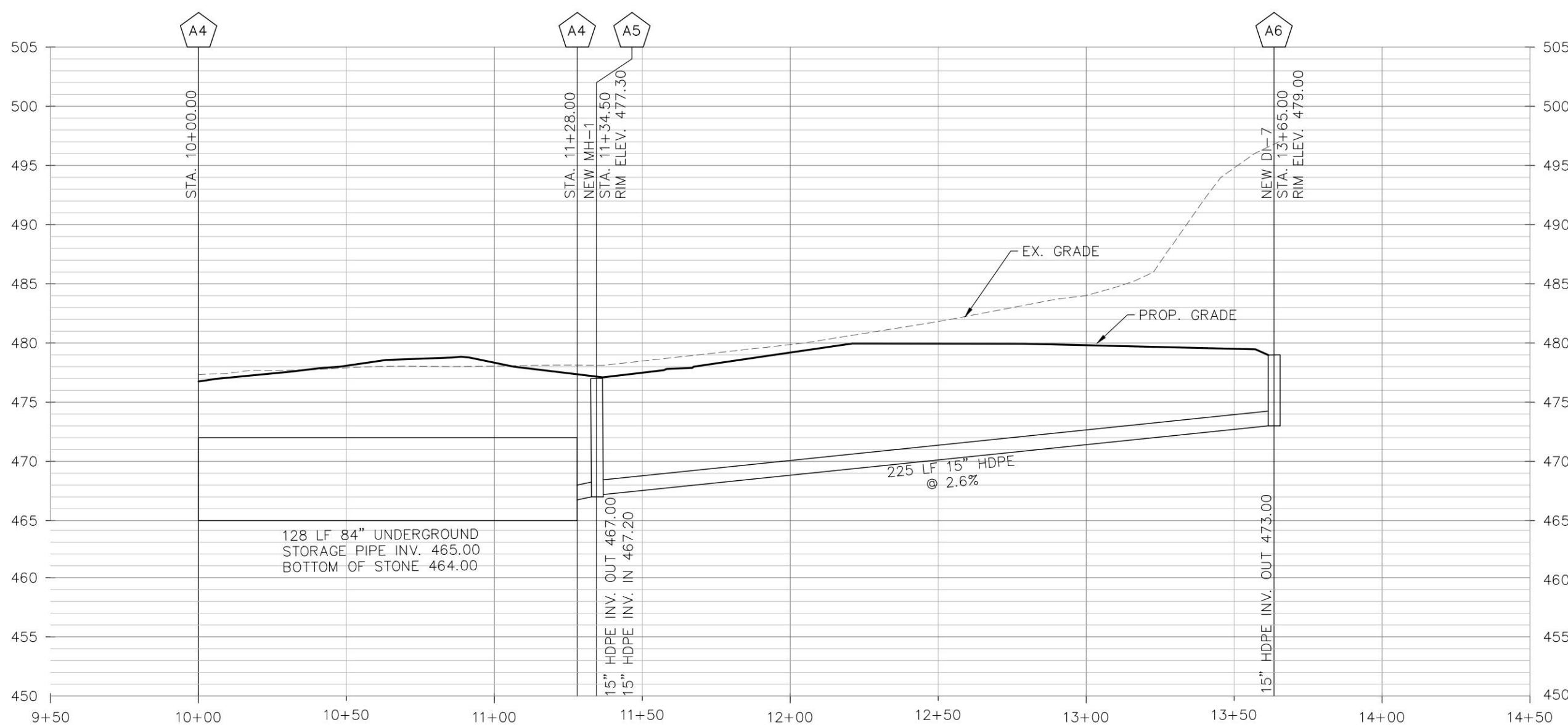
2 STORM PROFILE STR. A3-A3A
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



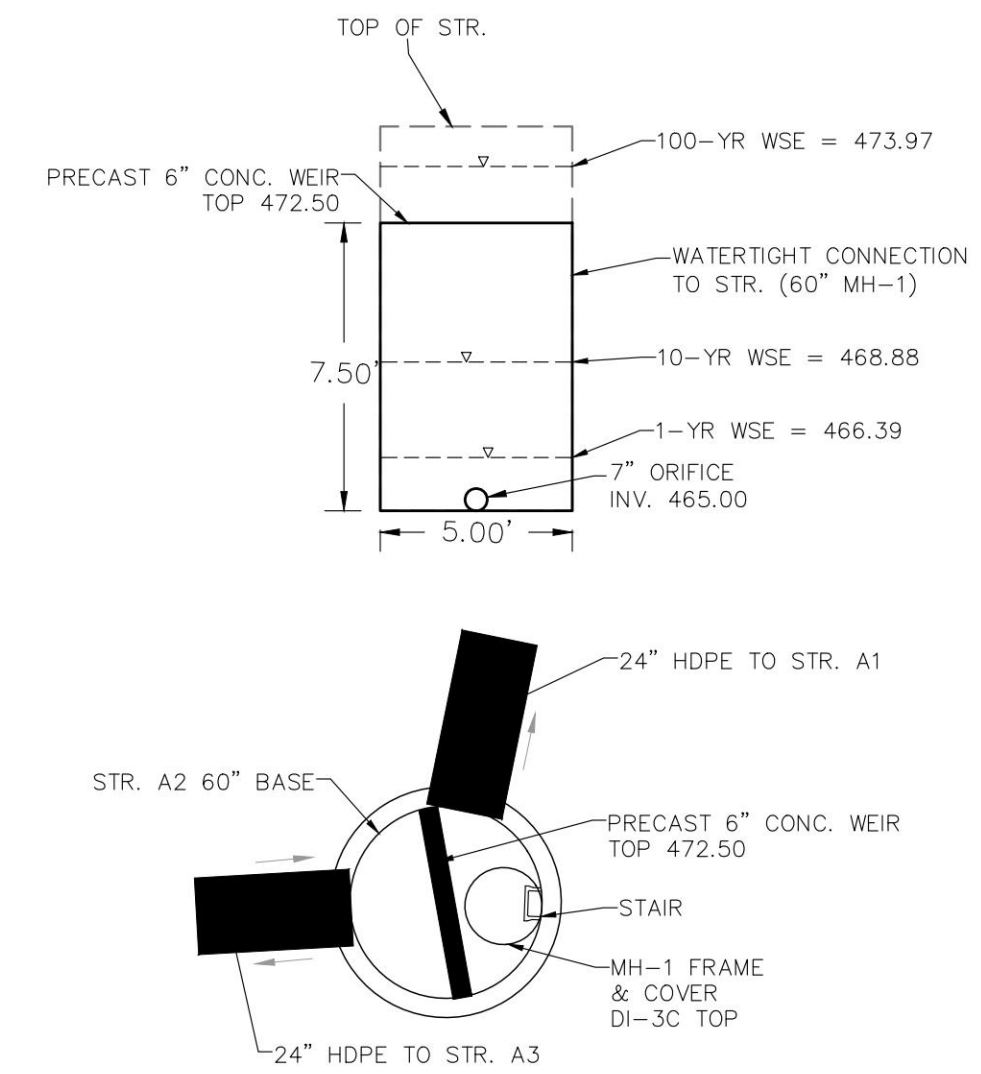
3 STORM PROFILE STR. A3-A3B
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



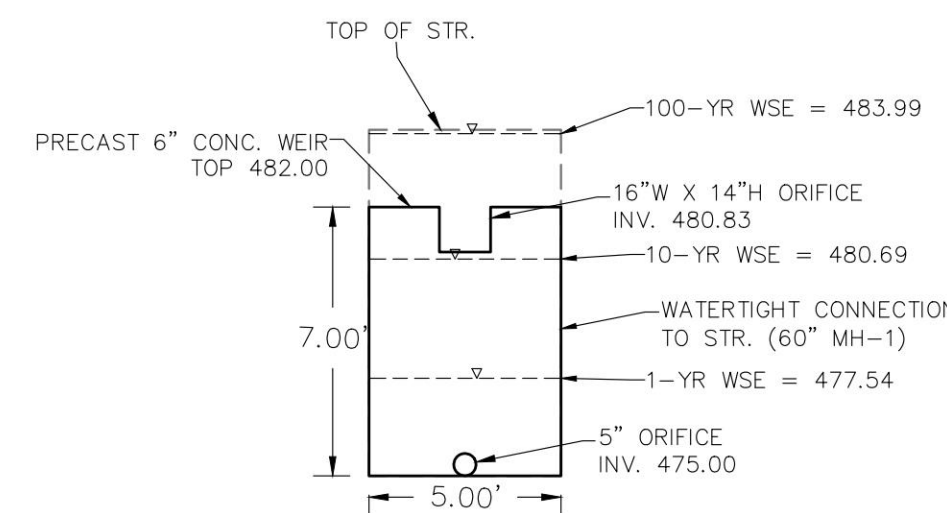
6 STORM PROFILE STR. B4-B4A
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



4 STORM PROFILE STR. A4-A6
C8 HORIZONTAL SCALE: 1"=40'; VERTICAL SCALE: 1"=10'



7 STORM STR. A2 DETAILS
C8 SCALE: 1"=5'



8 STORM STR. B3 DETAILS
C8 SCALE: 1"=5'



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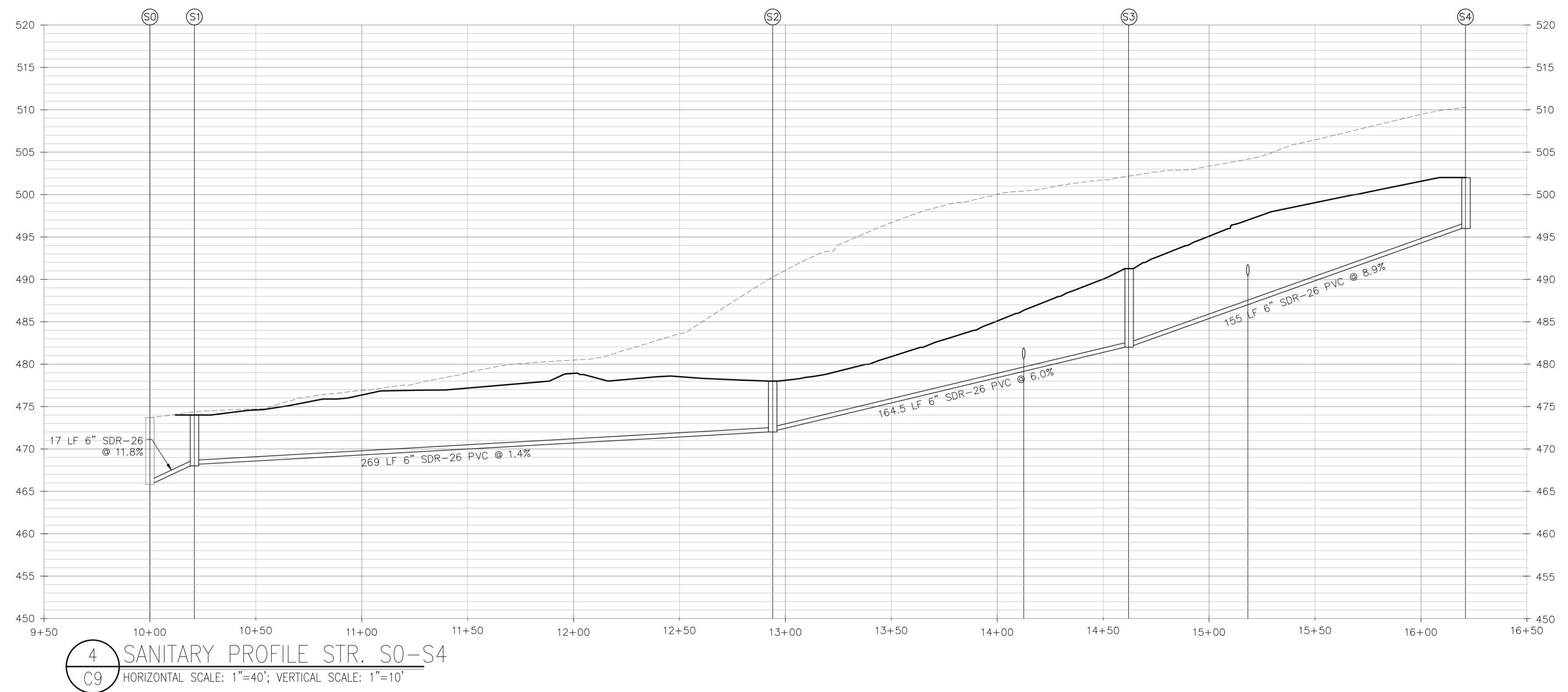
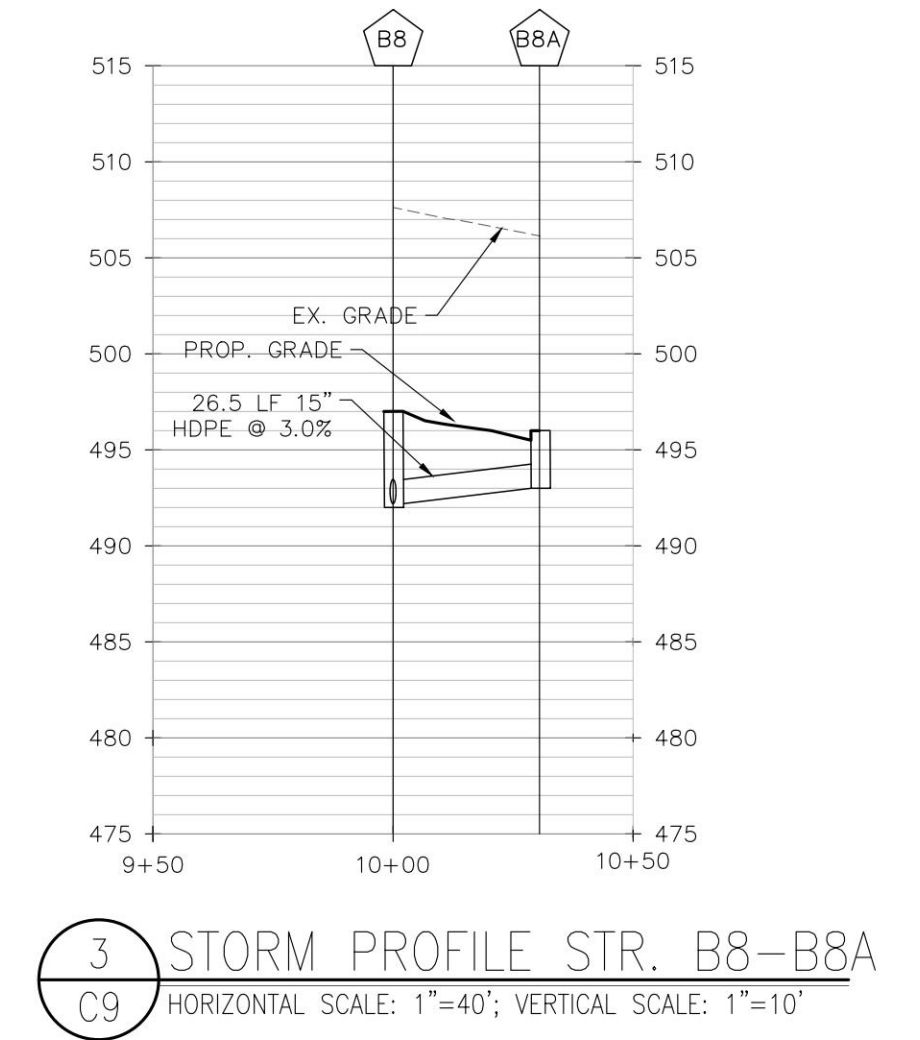
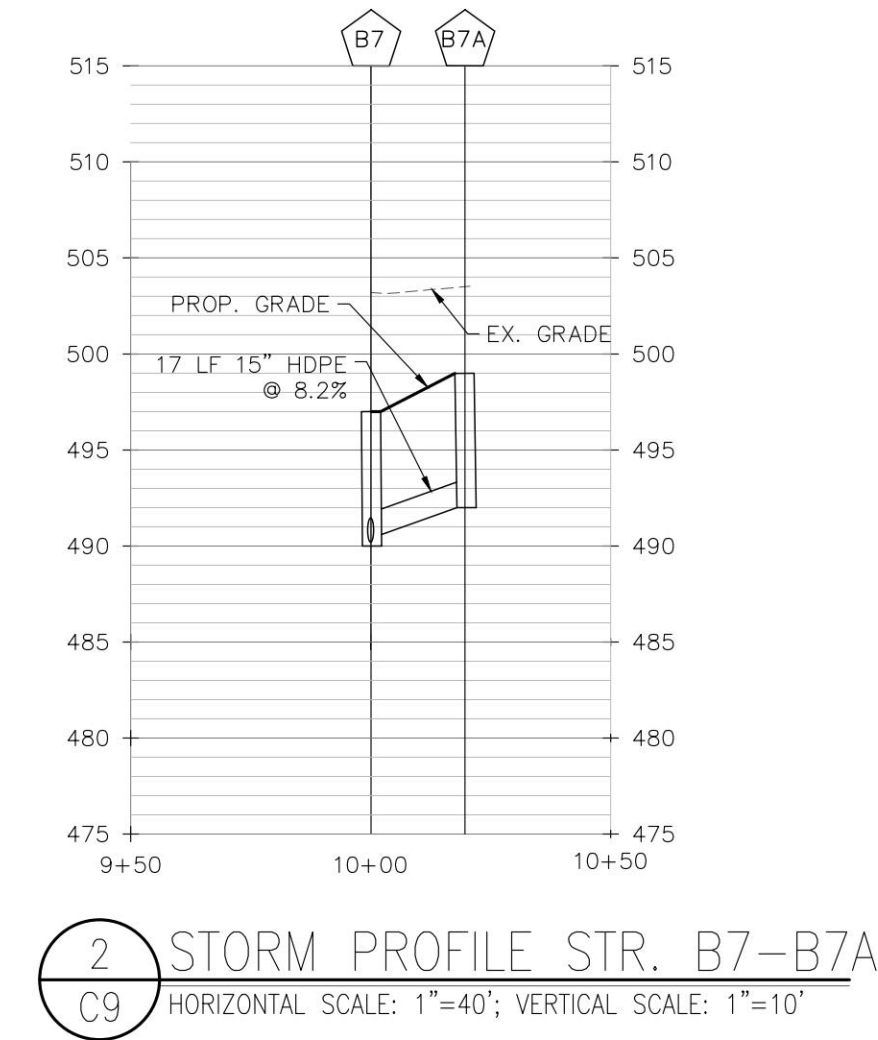
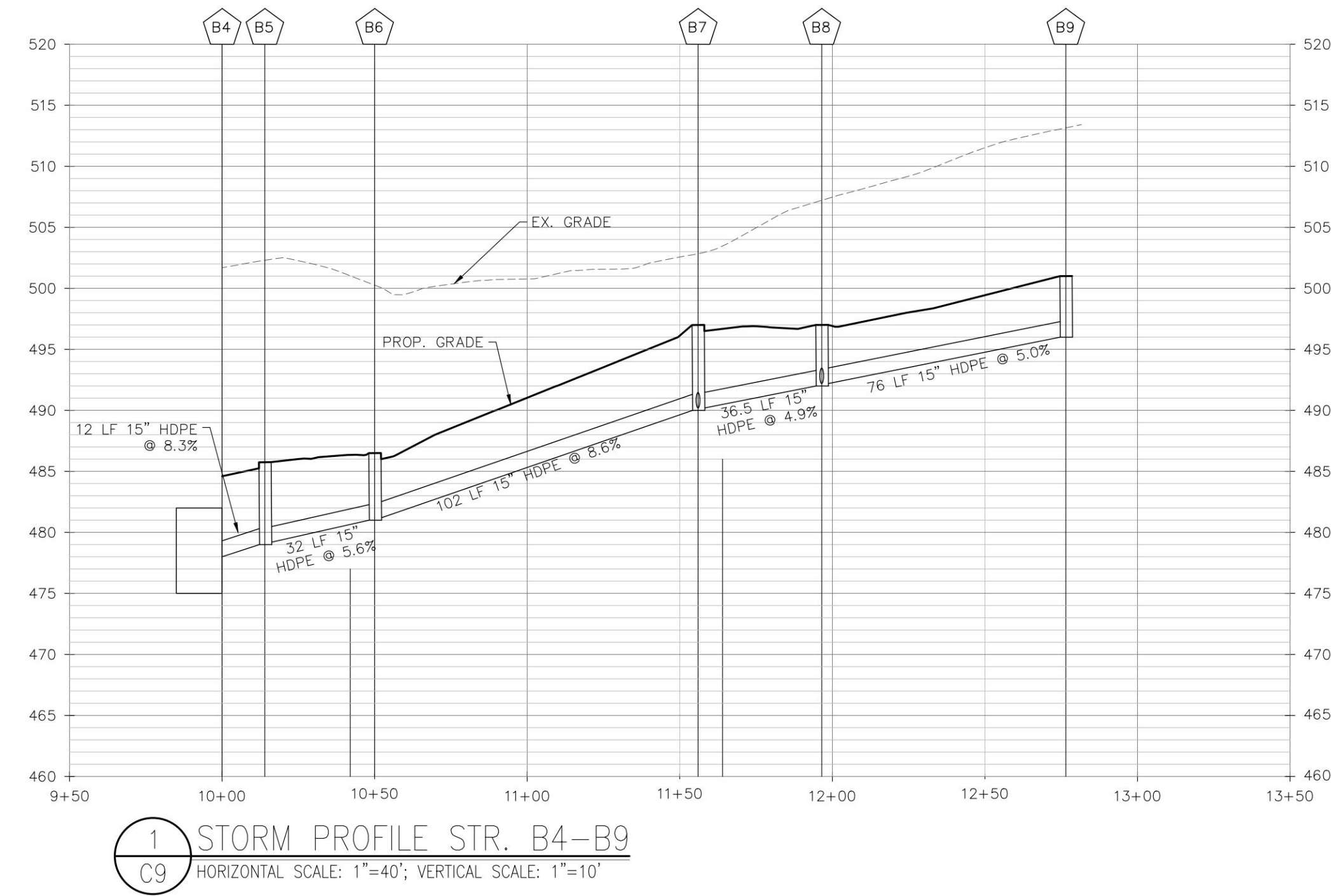
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UTILITY PROFILES

C8



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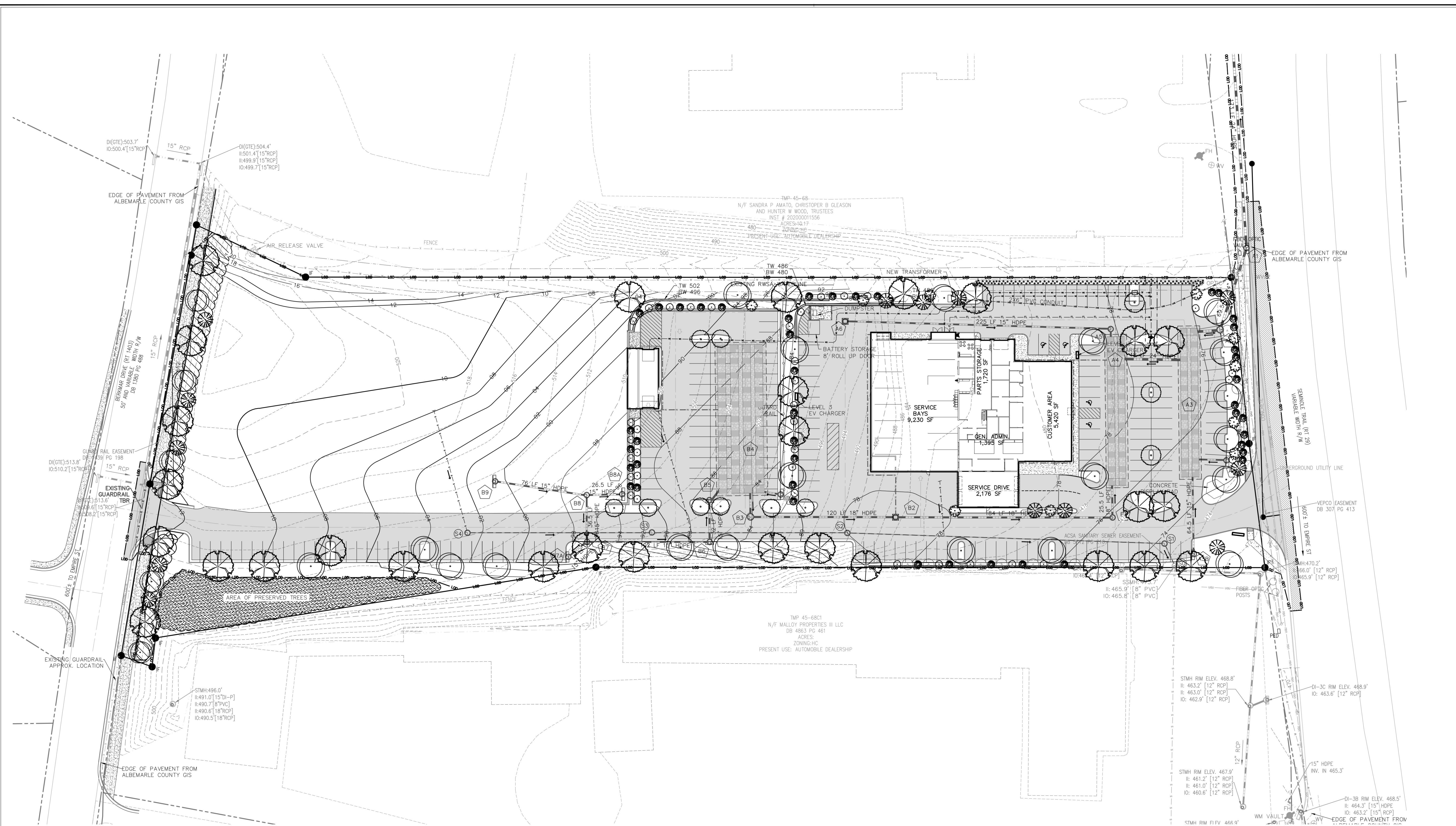
SITE DEVELOPMENT PLAN FOR
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UTILITY PROFILES

C9



LANDSCAPE SCHEDULE						
Plant Symbol	Planting Type	Botanical Name	Common Name	Min. Cal./Height	Quantity	Total Canopy SF
	Large Deciduous Tree	Quercus prinus	Chestnut Oak	3.5" Cal.	25	452
	Large Deciduous Tree	Quercus falcata	Southern Red Oak	3.5" Cal.	30	604
	Medium Deciduous Tree	Sassafras albidum	Common Sassafras	2.5" Cal.	11	249
	Ornamental Tree	Cercis Canadensis	Eastern Redbud	6"-8" Ht.	14	124
	Ornamental Tree	Cornus florida & cvs.	Flowering Dogwood	6"-8" Ht.	10	79
	Evergreen Shrub	Rhododendron prinophyllum	Rosehell Azalea	12" Ht.	33	20
	Evergreen Shrub	Rhododendron maximum	Great Rhododendron	12" Ht.	43	28
	Deciduous Shrub	Viburnum prunifolium	Blackhawk Viburnum	12" Ht.	12	64
	RWSA Approved Groundcover			18" Ht.	124	0
TOTAL SF:						36549

LANDSCAPING REQUIRED:

SITE REQUIREMENT (SEC. 32.7.9.8): 10% CANOPY REQUIRED.
SITE AREA: 5,718 AC (249,076 SF)
249,076 SF x 10% = 24,908 SF
CANOPY REQUIRED: 24,908 SF
EXISTING CANOPY TO REMAIN: 7,400 SF
CANOPY TO BE PROVIDED: 36,549 + 7,400 = 43,949 SF

ENTRANCE CORRIDOR STREETS: LARGE SHADE TREES (3.5" CAL.) - 35' O.C. WITH INTERSPERSED ORNAMENTAL TREES
251 LF OF FRONTAGE (LESS 50 FT ENTRY) = 201 LF + 35' = 5.74
REQUIRED: 6 LARGE SHADE TREES
PROVIDED: 6 LARGE SHADE TREES W/ 7 INTERSPERSED ORNAMENTAL TREES

LANDSCAPING ALONG S.R. 1403 (BERKMAR DR.) PER SPECIAL EXCEPTION #:
LARGE SHADE TREES (2.5" CAL.) - 35' O.C.
378 LF OF FRONTAGE (LESS 31 FT ENTRY) = 6.94
REQUIRED: 7 LARGE SHADE TREES
PROVIDED: 11 LARGE SHADE TREES W/ 6 INTERSPERSED ORNAMENTAL TREES

INTERIOR PARKING AREA (SEC. 32.7.9.6):
5% OF THE PAVED PARKING AREA & 1 LARGE OR MEDIUM SHADE TREE PER 10 PARKING SPACES
135,314 SF x 5% = 6,766 SF
REQUIRED: 6,766 SF
MIN. AREA TO BE PROVIDED: 6,766 SF

73 PARKING SPACES PROVIDED (INCLUDES DISPLAY SPACES)
REQUIRED: 8 LARGE OR MEDIUM SHADE TREES
TO BE PROVIDED: MIN. 41 LARGE OR MEDIUM SHADE TREES

- NOTES:
- For Initial Site Plan approval, this plan is shown without delineating tree and shrub species. Species selections shall be provided, along with area and canopy calculations, with the submittal of a Final Site Development Plan.
 - All site plantings of trees and shrubs shall be allowed to reach, and be maintained at, mature height; the topping of trees is prohibited. Shrubs and trees shall be pruned minimally and only to support the overall health of the plant.
 - All landscaping and screening shall be maintained in a healthy condition by the current owner or property owners' association and replaced when necessary. Replacement material shall comply with the approved landscape plan.
 - All new planting shown on the plan will be completed after building and road construction to avoid tree planting damages.
 - All disturbed slopes 3:1 or steeper to have low maintenance ground cover.
 - Any existing tree proposed to remain shall be replaced in kind if negatively impacted by improvements associated with this project.

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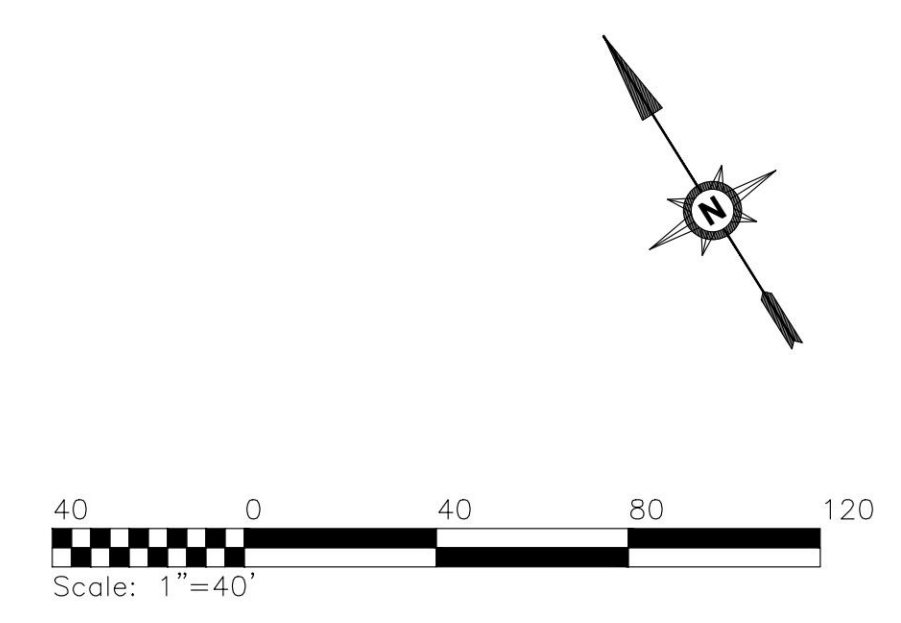
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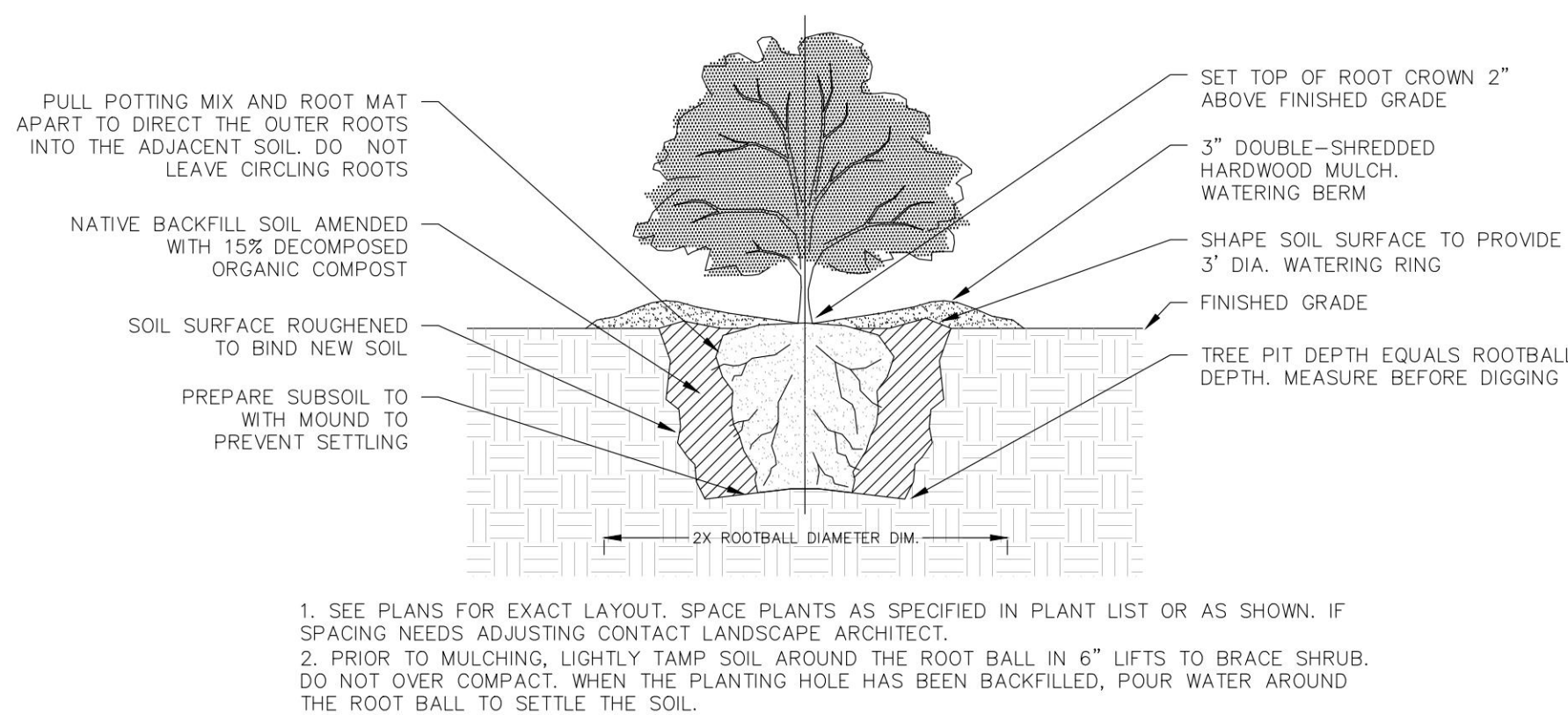
REVISION:

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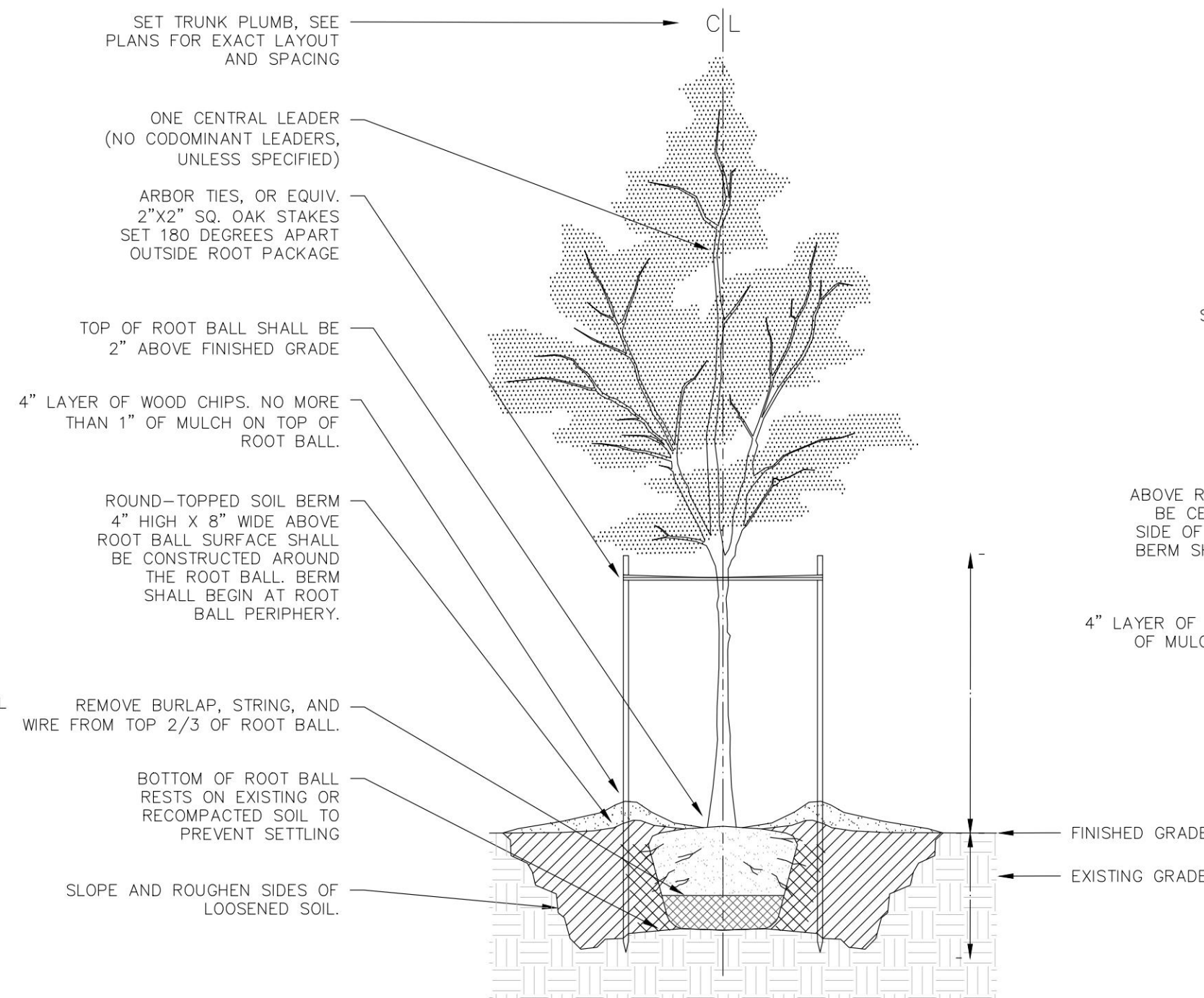
LANDSCAPE PLAN



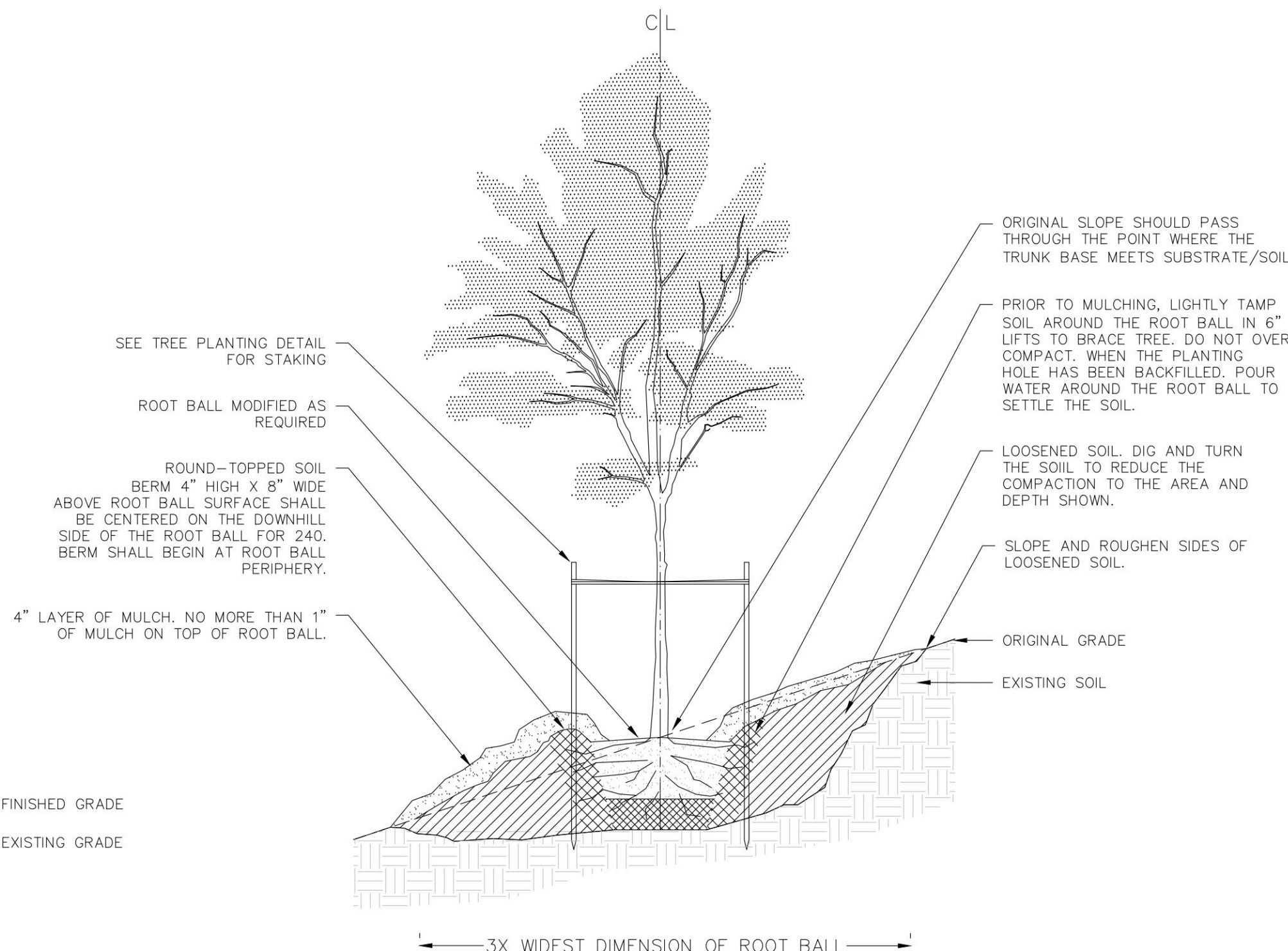
C10



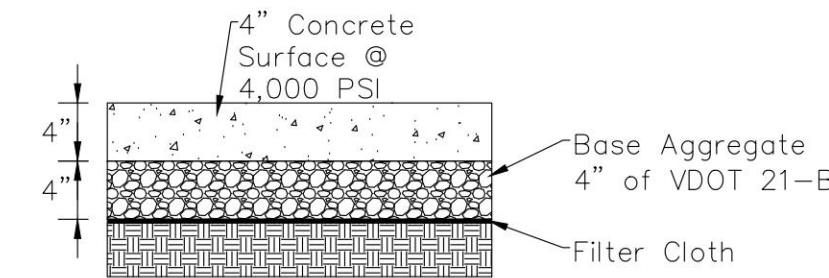
1 SHRUB PLANTING - SECTION
C11 Not To Scale



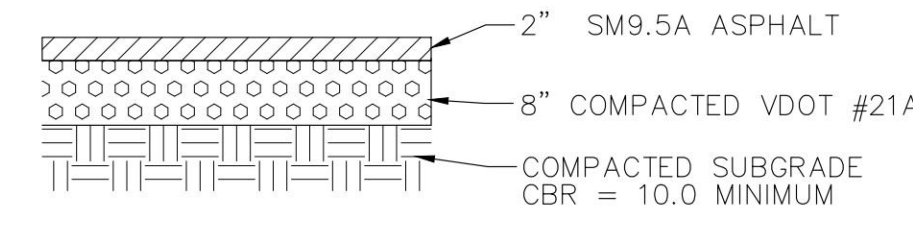
2 TREE PLANTING DETAIL
C11 Not To Scale



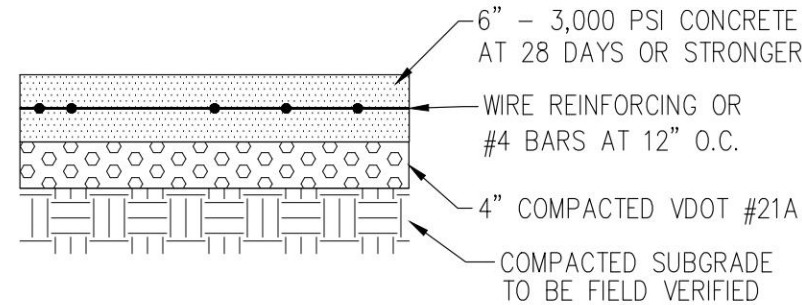
3 TREE ON SLOPE @ 25% (4:1) to 50% (2:1)
C11 Not To Scale



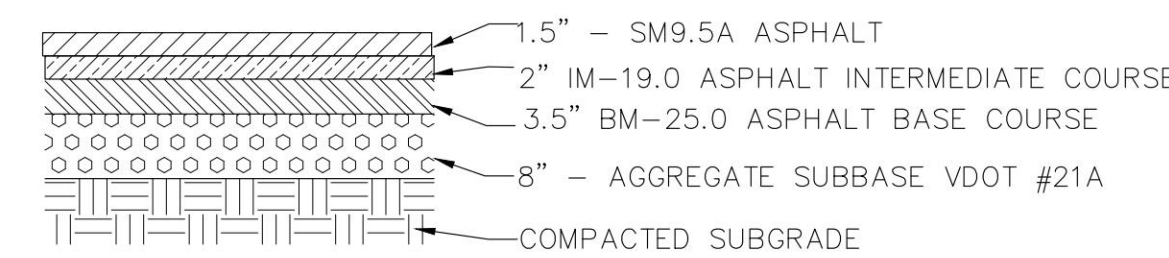
4 CONCRETE SIDEWALK SECTION
C11 Not To Scale



5 PARKING LOT PAVEMENT DETAIL
C11 Not To Scale



6 DUMPSTER PAD DETAIL
C11 Not To Scale



7 COMMERCIAL ENTRANCE PAVEMENT DETAIL
C11 Not To Scale

Virginia Department of Transportation Details	
104.09	Standard Curb Drop Inlet
106.01	Manhole for 12"-48" Pipe Culverts
201.01	Standard 6" Curb (CG-2)
201.03	Combination 6" Curb & Gutter (CG-6)
203.04	Method of Treatment
204.01	CG-12 Detectable Warning Surface

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http://www.virginiadot.org/business/locodes/vdot_road_and_bridge_standards.asp



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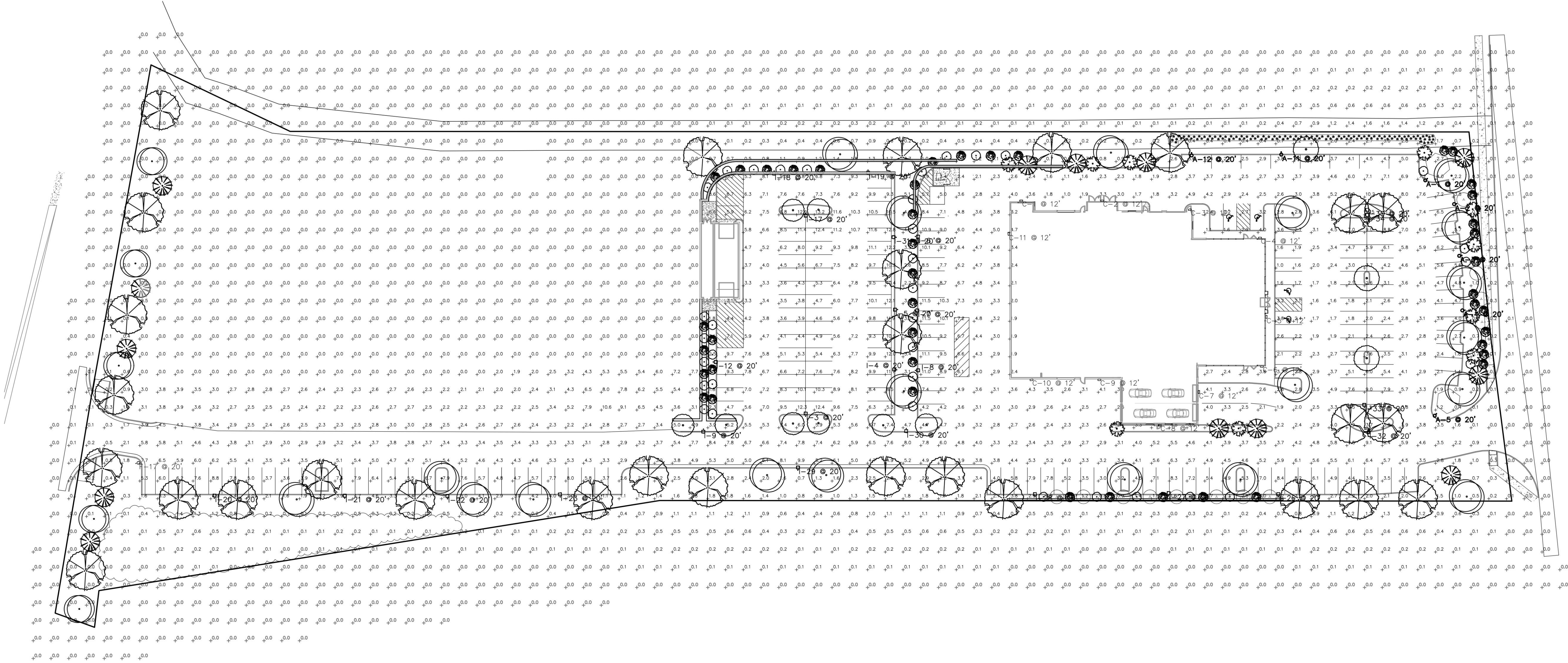
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SITE DETAILS

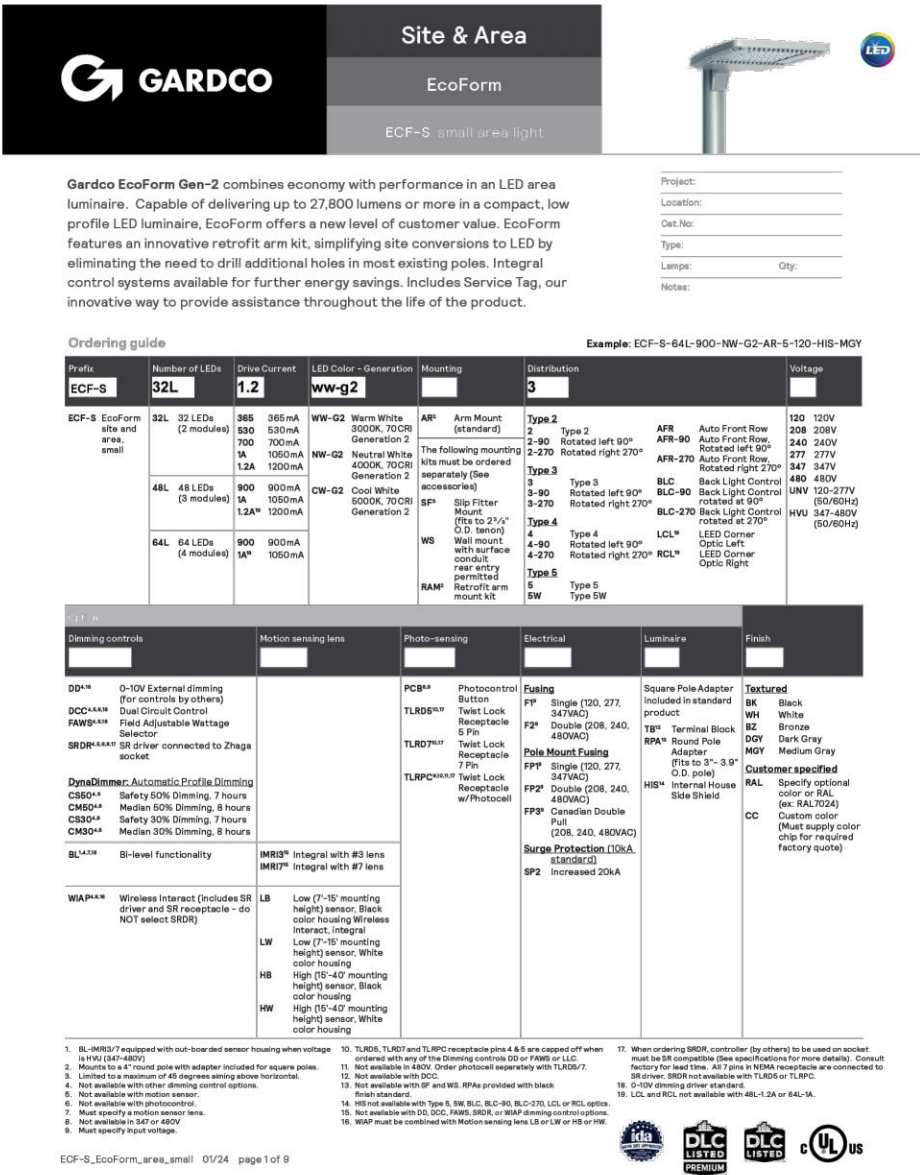
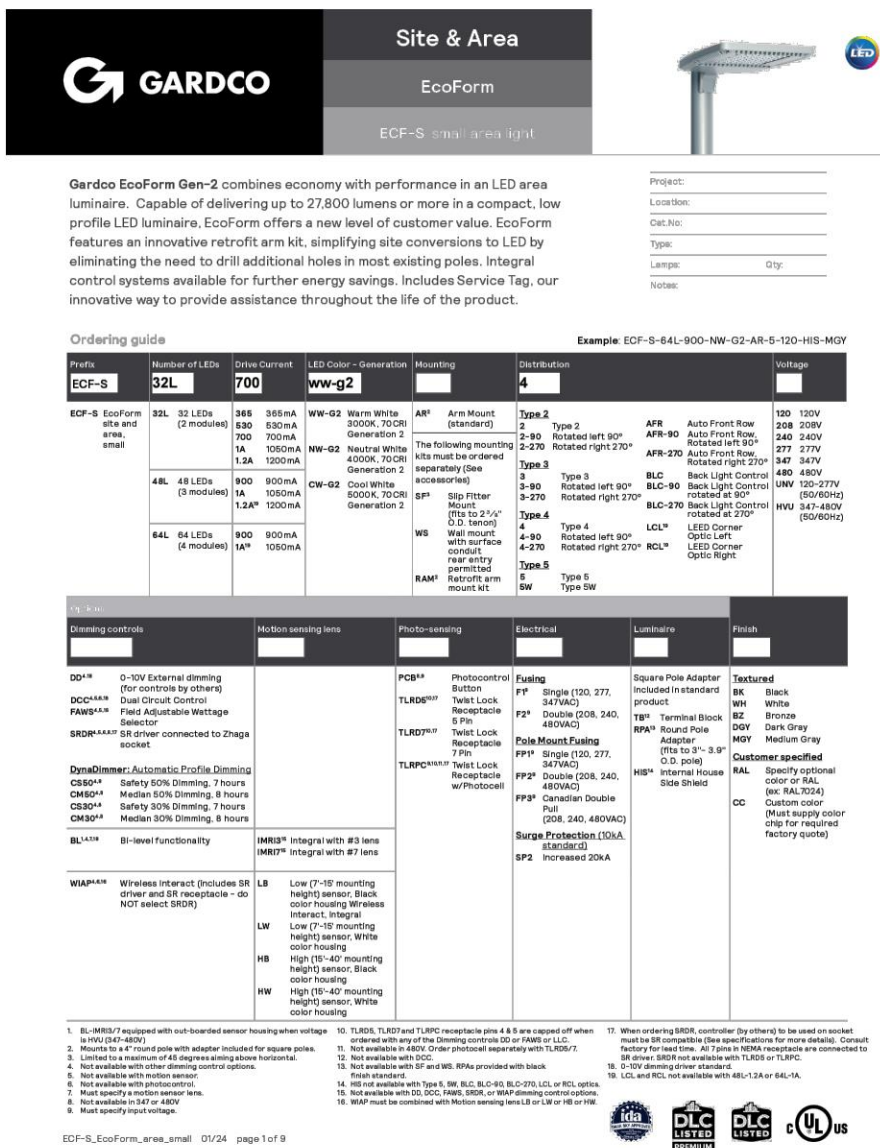
C11



CALCULATIONS
AVERAGE: 2.7 fc
MAXIMUM: 21.2 fc
MINIMUM: 0.0 fc

LIGHTING SCHEDULE									
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Filename	Number of Lamps	Lumens Per Lamp	Wattage
	A	7	GARDCO	ECF-S-32L-700-WW-G2-4-HIS	EcoForm Area LED ECF - Small 32 LED's 3000K CCT TYPE 4-HIS OPTIC House-side Internal Shielding	ECF-S-32L-700-WW-G2-4-HIS.ies	1	Absolute	72.9
	C	11	GARDCO	GCS-A03-830-T4M	Geoform Wall Sconce - cylinder 20 LED's 3000K CCT TYPE T4M OPTIC 80CRI	GCS-A03-830-T4M (2).ies	1	Absolute	24.6
	I	24	GARDCO	ECF-S-64L-1A-WW-G2-4-HIS	EcoForm Area LED ECF - Small 64 LED's 3000K CCT TYPE 4-HIS OPTIC House-side Internal Shielding	ECF-S-64L-1A-WW-G2-4-HIS.ies	1	Absolute	205.9
	F	1	GARDCO	ECF-S-32L-1.2A-WW-G2-4	EcoForm Area LED ECF - Small 32 LED's 3000K CCT TYPE 4 OPTIC No Shield	ecf-s-32l-1.2a-ww-g2-4 (2).ies	1	Absolute	121.6

- LIGHTING NOTES:
- Each outdoor luminaire equipped with a lamp that emits 3,000 or more initial lumens shall be a full cutoff luminaire and shall be arranged or shielded to reflect light away from adjoining residential districts and away from adjacent roads. The spillover of lighting from luminaires onto public roads and property in residential or rural areas zoning districts shall not exceed one half footcandle.
 - "A" fixtures shall be mounted at a height of 20' from finished grade which includes the pole base.
 - "C" fixtures shall be mounted at a height of 12'.
 - "I" fixtures shall be mounted at a height of 20' from finished grade which includes the pole base.
 - "A", "C", & "I" fixtures shall have a black finish.
 - "A", "C", & "I" fixtures shall have a CCT of 3000K.



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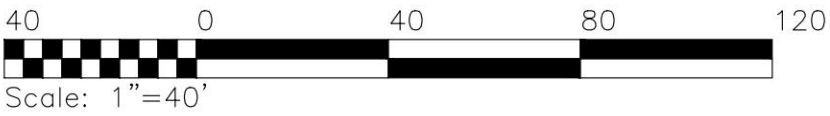
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LIGHTING PLAN



C12