

SITE CONSTRUCTION PLANS

FOR DOVE CREEK SCHOOL R/W IMPROVEMENTS

7921 HOG MOUNTAIN ROAD / STATE ROUTE 53
STATHAM, GA 30666 OCONEE COUNTY, GA
± 47.27 ACRE SITE
?? ACRES DISTURBED
± 3,125 L.F. STATE 53 IMPACTED
± 2,300 L.F. FRONTAGE ALONG S.R. 53

NPDES CERTIFICATION

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

ACKNOWLEDGEMENT

Abe Abouhmdan
 Owner/Contractor or Authorized Representative

Construction of this project will involve Land Disturbance equal to, or greater than, 1 acre, or is a part of a common development requiring an NPDES Permit, and must comply with the National Pollutant Discharge Elimination System (NPDES) Permit for construction activities (General Permit No. GAR 100002). The owner/contractor or authorized representative shall be responsible for the preparation of the necessary Notice of Intent (NOI) and appropriate erosion, sediment and pollution control plan requirements that comply with all aspects of the NPDES Permit for construction activities.

ACKNOWLEDGEMENT

Abe Abouhmdan
 Owner / Contractor or Authorized Representative

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COVER

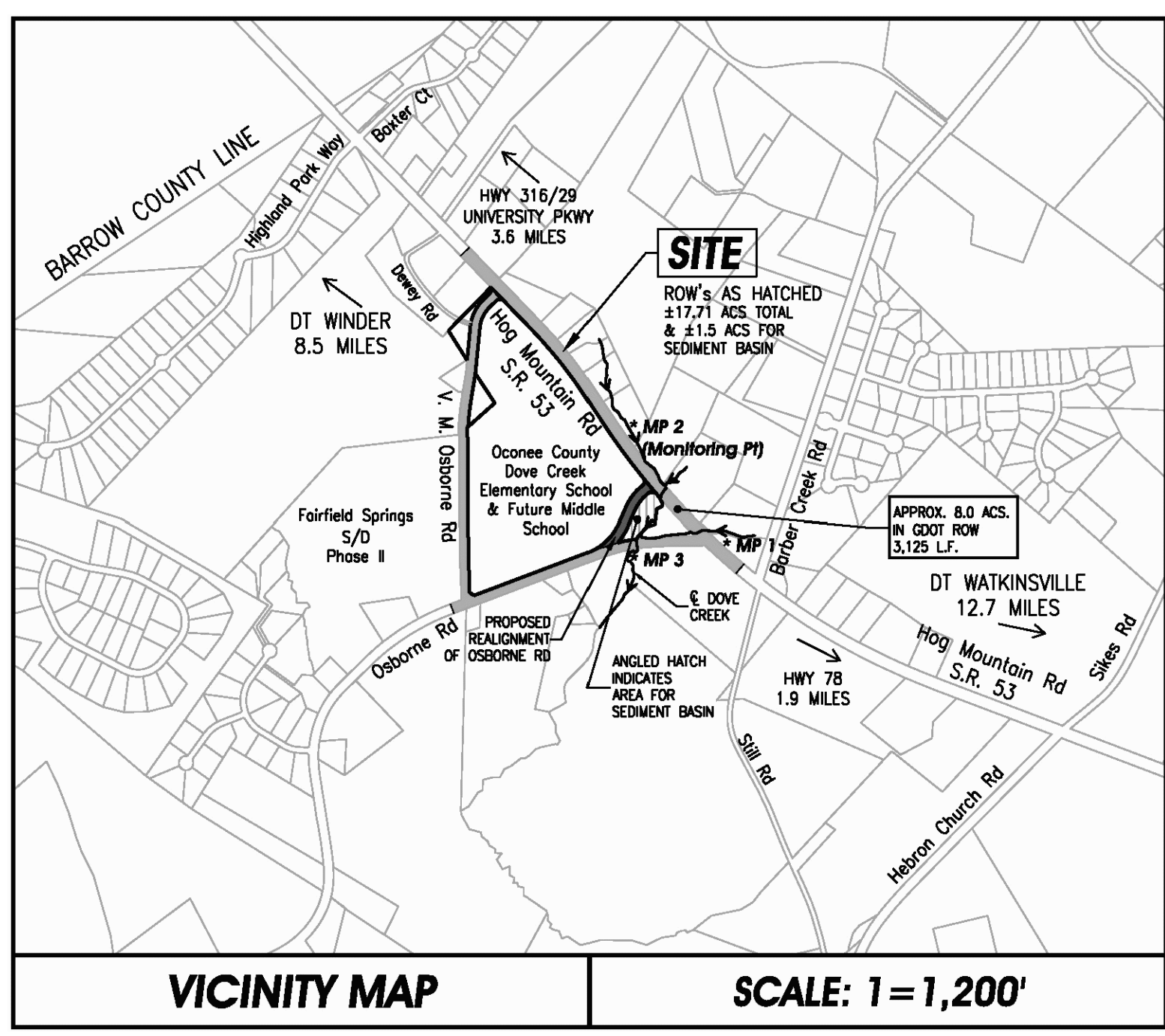


REVISIONS	DATE

DATE: 2-12-18
 PROJECT #: 17-021-48

SHEET #
1
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Page #	Y/N	Included
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1	Y	2
1	Y	3
1	Y	4
1	Y	5
14	Y	6
1	Y	7
1	Y	8
1	Y	9
14-40	Y	10
1	Y	11
42	Y	12
42	Y	13
42	Y	14
42	Y	15
42	Y	16
14-42	Y	17
14-42	Y	18
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14-42	Y	21
N/A	N	22
N/A	N	23
41	Y	24
41	Y	25
42	Y	26
14-42	Y	27
41	Y	28
42	Y	29
42	Y	30
42	Y	31
42	Y	32
42	Y	33
1 & 4	Y	34
14-42	Y	35
23-40	Y	36
14-40	Y	37
14-40	Y	38
N/A	N	39
34-40	Y	40
N/A	N	41
42	Y	42
14-40	Y	43
N/A	N	44
57-58	Y	45
14-40	Y	46
14-40	Y	47
42	Y	48
14-40	Y	49
41	Y	50
41	Y	51



OWNER / DEVELOPER / CONTRACTOR/PRIMARY PERMITTEE:
OCONEE COUNTY PUBLIC WORKS DEPARTMENT
CONTACT: MR. EMIL BESHARA, PE
ADDRESS: 1291 GREENSBORO HWY.
ADDRESS: WATKINSVILLE, GA 30677
PHONE: 706-769-2937

24 HOUR CONTACT:
CONTACT: MR. EMIL BESHARA, PE
ADDRESS: 1291 GREENSBORO HWY.
ADDRESS: WATKINSVILLE, GA 30677
CELL PHONE: 706-540-1725
FAX: 706-769-2939

GEORGIA D.O.T. NOTES

THE WORK AUTHORIZED MUST BEGIN WITHIN THREE MONTHS AND BE COMPLETED WITHIN TWELVE MONTHS ON A SCHEDULE SATISFACTORY TO THE DEPARTMENT FROM THE PERMIT APPROVAL DATE AND ALSO, BE COMPLETED BEFORE THIS FACILITY IS OPEN TO THE PUBLIC.

THE FOLLOWING WILL NOT BE ALLOWED ON DOT RIGHT-OF-WAY: (1) DIVERSION OF ADDITIONAL DRAINAGE AREA ON TO THE RIGHT-OF-WAY, OR INCREASE IN THE CFS OF CURRENT VOLUMES OF WATER (2) GRADING EXCEPT AT DRIVEWAY CONSTRUCTION LOCATION, (3) HEADWALLS, (4) SIGNS, DISPLAY DEVICES, AND OTHER STRUCTURES WHICH ARE DESIGNED, INTENDED, OR USED TO ADVERTISE OR INFORM, (5) LANDSCAPING WITHOUT PRIOR APPROVAL OF THE LANDSCAPE PLAN.

ALL EXISTING UTILITIES WHICH WOULD BE UNDER NEW PAVEMENT OR IN ACCELERATION/DECELERATION LANES SHALL BE RELOCATED BEFORE FINAL GRADING OR PAVING AND AT NO COST TO THE DOT, OR AN APPROVED RETENTION LETTER FROM THE UTILITY OWNER.

CONSTRUCTION OF EROSION CONTROL BARRIERS PER GEORGIA DEPARTMENT OF NATURAL RESOURCES CODE 391-3-7 AND SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

APPLICANT SHALL RESTORE ALL EXISTING SIGNS AND REGRESS TO DOT SPECIFICATIONS ALL RIGHT OF WAY THAT IS DISTURBED DURING WORK AUTHORIZED HEREIN.

THE PERMIT APPLICANT IS RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING PAVEMENT MARKINGS DAMAGED BY THE PERMIT CONSTRUCTION AND THE ADDITION OF NEW PAVEMENT MARKINGS AND OR SIGNS AS SHOWN ON THE APPROVED PLAN, OR CURRENT M.U.T.C.D. GUIDELINES.

ALL CURBED ISLANDS SHALL BE FILLED TO THE TOP OF CURB WITH TOP SOIL AND GRASSSED. NOTE: THIS APPROVAL DOES NOT ALLOW ANY WORK ON STATE RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, TELEPHONE, GAS, ETC.)

REQUIRED PAVEMENT SPECIFICATIONS

1 1/4"	9.5 mm SUPERPAVE
2"	19 mm SUPERPAVE
3"	25mm SUPERPAVE
12"	GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITTEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

GDOT UTILITY NOTES:

- ALL UTILITY RELOCATIONS REQUIRED BY THIS PROJECT THAT ARE ON A STATE ROUTE MUST BE PERMITTED THROUGH THE GEORGIA UTILITIES PERMITTING SYSTEM (GUPS).
- ALL UTILITIES RELOCATED AND/OR NEWLY INSTALLED SHALL BE IN ACCORDANCE WITH THE GDOT UTILITY MANUAL, CURRENT EDITION.
- ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
- UTILITY OWNERS MUST PROVIDE GDOT ACCESS/ENCHROACHMENT PERMITS AS PART OF THE WORK DESCRIPTION.
- ALL NEW OR RELOCATED UTILITY POLES, GUYS & ANCHORS SHALL MEET CLEAR ZONE REQUIREMENTS.

UTILITY OWNERS:

- WATER LINE: OCONEE COUNTY UTILITY DEPT.
- OVERHEAD POWER: WALTON EMC/GA. POWER
- GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
- TELECOM/DATA: AT&T
- TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS

GENERAL UTILITY NOTE:
LOCATE & POT HOLE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GRADING & PIPE INSTALLING, TYP. FOLLOW ALL REQUIREMENTS FOR CALLING 811 & GDOT NOTIFICATION/GDOR.

I, ABE ABOUHMDAN, HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN AND HAVE VERIFIED THE PRESENCE OR LACK THEREOF OF ALL STATE WATERS ON OR ADJACENT TO THE SITE.

SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-12-18

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-12-18

THESE PLANS WERE PREPARED BY A LEVEL TWO CERTIFIED PROFESSIONAL NUMBER #000010490

SIGNATURE: *Abe Abouhmdan* DATE SIGNED: 2-12-18

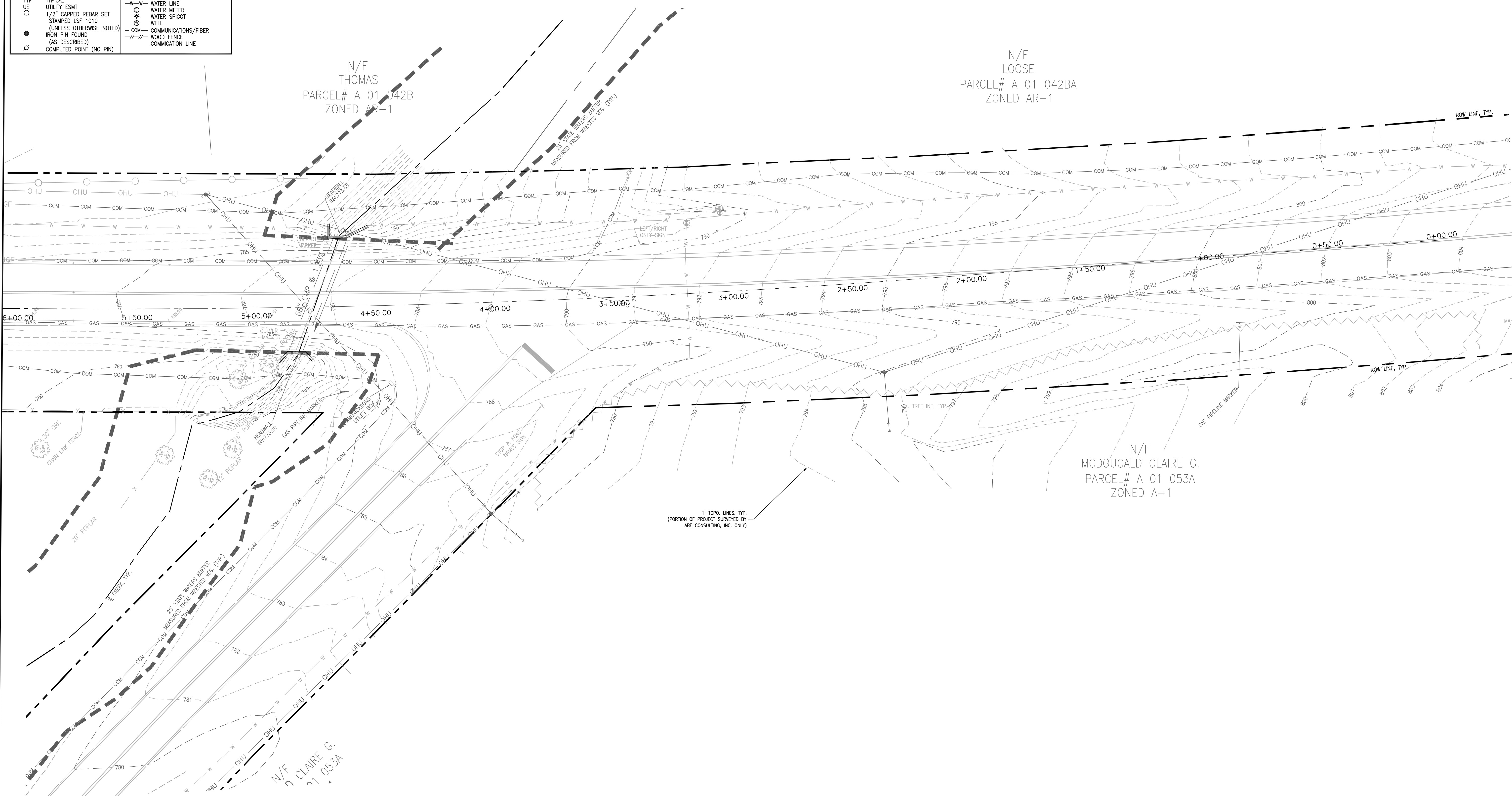


Know what's below. Call before you dig.

COLORS FOR UTILITY LOCATING:
 White = Prop. Excavation
 Pink = Temp. Survey Markings
 Red = Electric
 Yellow = Gas/Oil
 Orange = Phone/Cable
 Blue = Water
 Purple = Reclaimed Water
 Green = Sewer

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the "checklist items would be Effective January 1, 2018

LEGEND OF SURVEY ABBREVIATIONS/ SYMBOLS	
A	ARC LENGTH
A/C	AIR CONDITIONER
AE	ACCESS EASEMENT
ASPH	ASPHALT
BC	BACK OF CURB
BLDG	BUILDING
BSL	BUILDING SETBACK LINE
CC	CALCULATED CORNER
C	CENTERLINE
CMF	CONC MONUMENT FOUND
CONC	CONCRETE
COV	COVERED
CRFB	CAPPED REBAR FOUND
CTF	CRIMP TOP PIPE FOUND
DB	DEED BOOK
DE	DRAINAGE ESMT
EDA	EDGE OF ASPHALT
ENCL	ENCLOSED
ENCR	ENCROACHMENT
E/P	EDGE OF PAVEMENT
ESMT	EASEMENT
FC	FACE OF CURB
FND	FOUND
FF	FINISHED FLOOR
GAR	GARAGE
(M)	MEASURED
N/F	NOW OR FORMERLY
NTS	NOT TO SCALE
OTF	OPEN TOP PIPE FOUND
R	PROPERTY LINE
PB	PLAT BOOK
PC	POINT OF CURVATURE
PK	PK NAIL FOUND
PKS	PK NAIL SET
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
(R)	RECORD
R/W	RIGHT-OF-WAY
RBF	REBAR FOUND
SWB	STATE WATERS BUFFER
TP	TAX PARCEL NUMBER
TYP	TYPICAL
UE	UTILITY ESMT
O	1/2" CAPPED REBAR SET STAMPED LSF 1010 (UNLESS OTHERWISE NOTED)
●	IRON PIN FOUND (AS DESCRIBED)
○	COMPUTED POINT (NO PIN)
⊠	BACKFLOW PREVENTER
⊕	BENCHMARK
⊗	BOLLARD
⊗	BURIED CABLE POST
⊗	CATCH BASIN (SINGLE WING)
⊗	CATCH BASIN (DOUBLE WING)
⊗	CHAIN LINK FENCE
⊗	DRAIN
⊗	ELECTRIC BOX
⊗	ELECTRIC METER
⊗	ELECTRIC OUTLET
⊗	ELECTRIC STUB
⊗	FIRE HYDRANT
⊗	GAS LINE
⊗	GAS METER & REGULATOR
⊗	GATE VALVE
⊗	GUTTER
⊗	GUY/ANCHOR
⊗	INLET
⊗	IRRIGATION BOX
⊗	IRRIGATION CONTROL VALVE
⊗	MAILBOX
⊗	METAL GRATE
⊗	MITERED END SECTION
⊗	MONITORING WELL
⊗	OVERHEAD UTILITIES
⊗	POWER LINE (BURIED)
⊗	SANITARY SEWER CLEAN-OUT
⊗	SANITARY SEWER LINE
⊗	SANITARY SEWER MANHOLE
⊗	SIGN
⊗	SMOKE STACK
⊗	STORM SEWER MANHOLE
⊗	STORM SEWER LINE
⊗	STREET/PARKING LIGHT
⊗	STUB (UNKNOWN)
⊗	TANK
⊗	UTILITY MANHOLE
⊗	UTILITY/POWER POLE
⊗	UTILITY RISER
⊗	WATER LINE
⊗	WATER METER
⊗	WATER SPIGOT
⊗	WELL
⊗	COMMUNICATIONS/FIBER
⊗	WOOD FENCE
⊗	COMMUNICATION LINE



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DOVE CREEK SCHOOL R/W IMPROVEMENTS

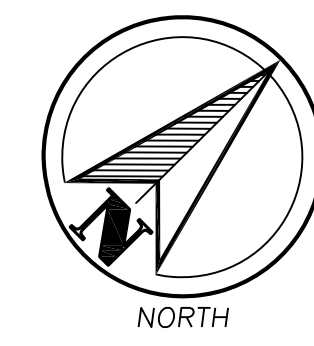
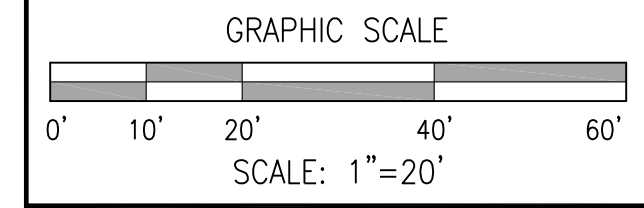
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 224th GMD
 GDOT DISTRICT# 1

ADDITIONAL SURVEY BY:
ABE CONSULTING, INC

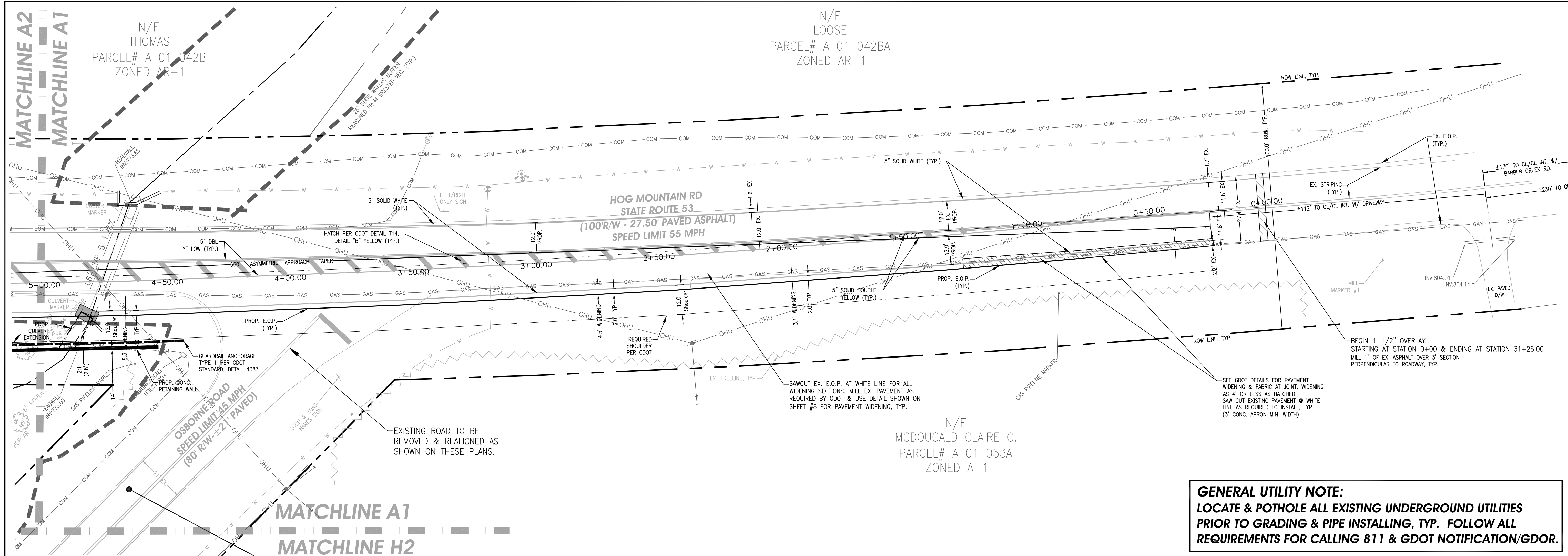


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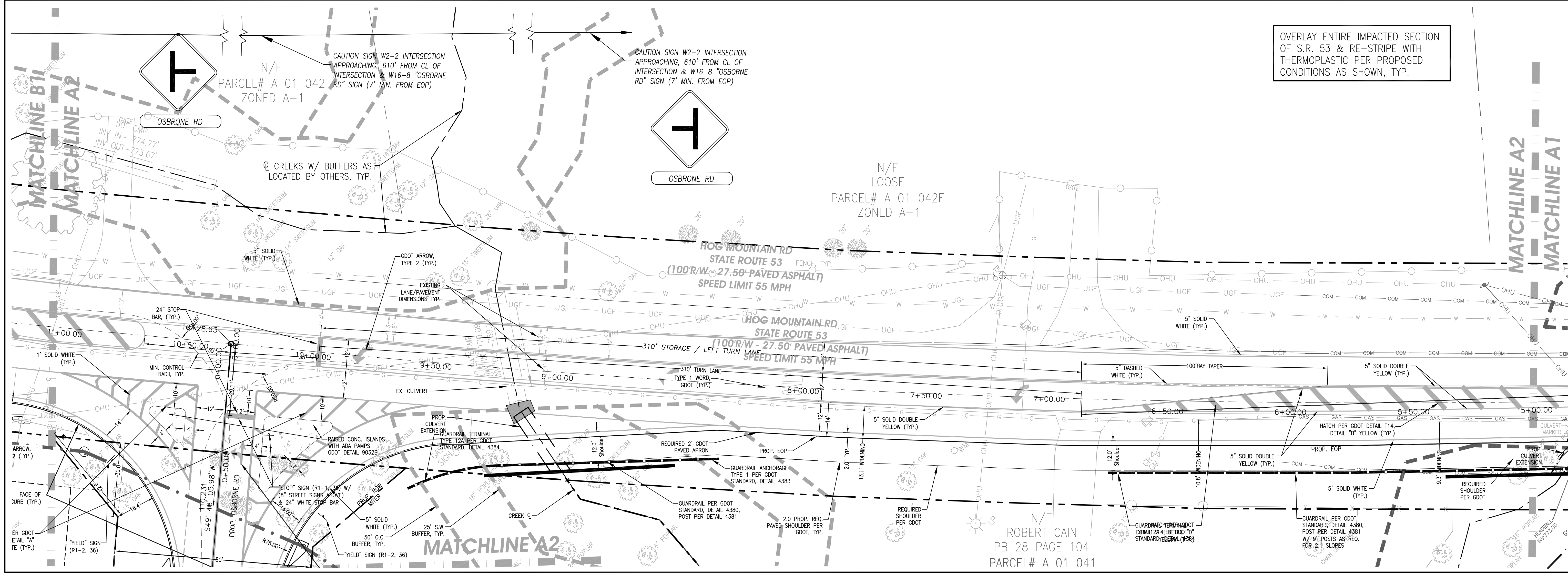
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GENERAL UTILITY NOTE:
 LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES
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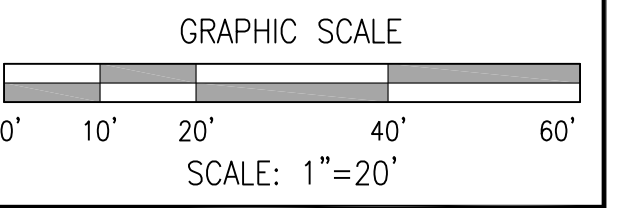
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STRIPING PLAN A



REVISIONS	DATE

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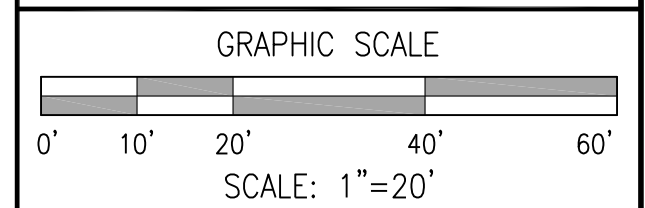
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STRIPING PLAN B

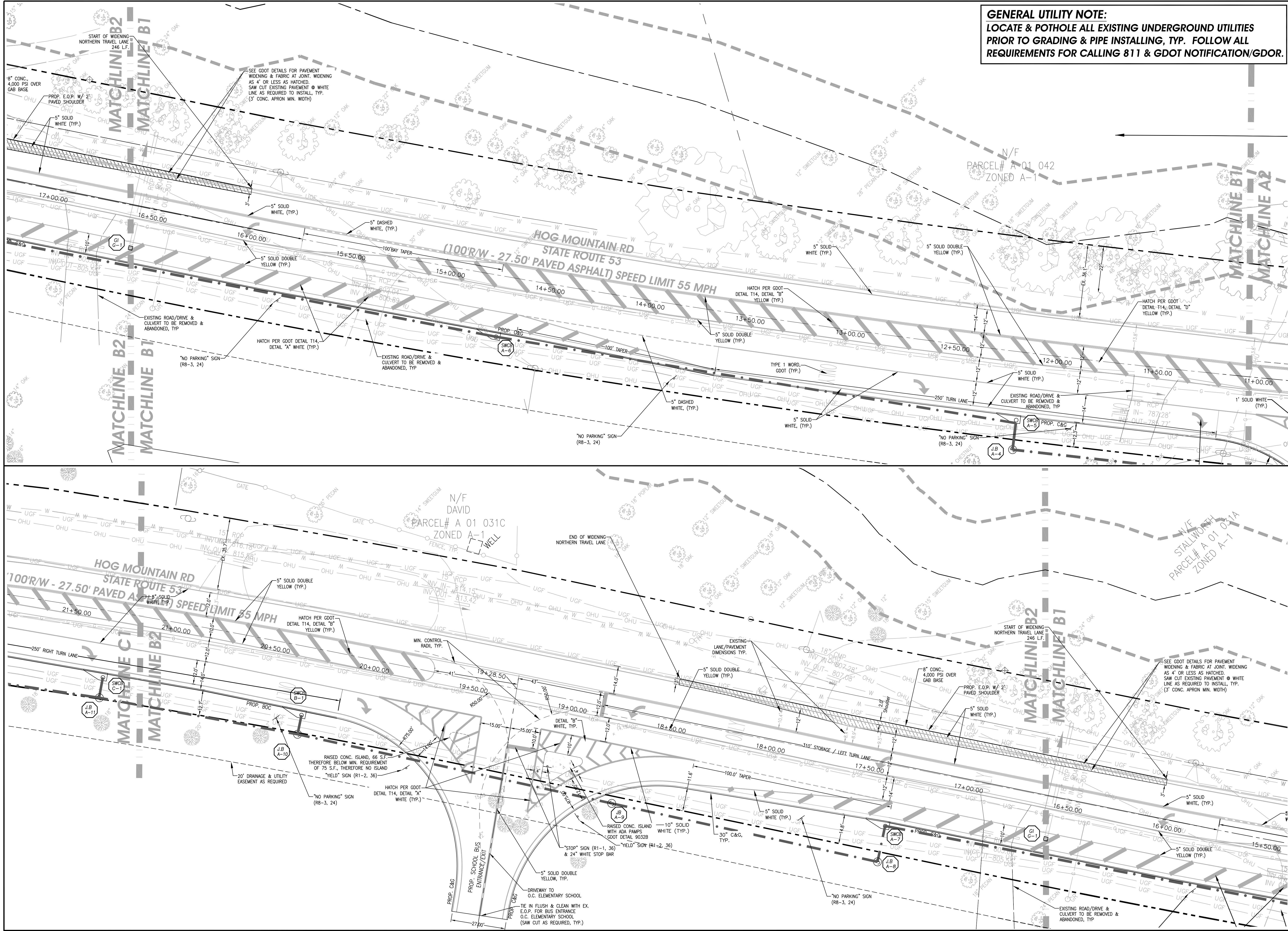


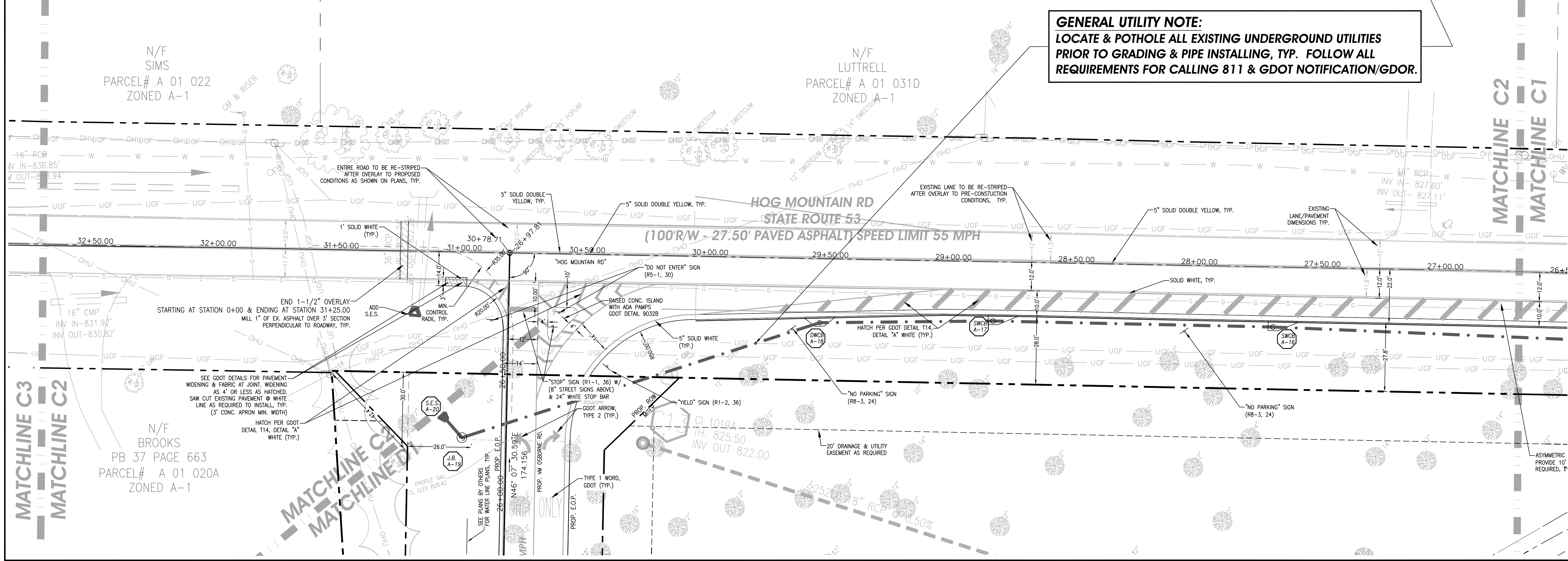
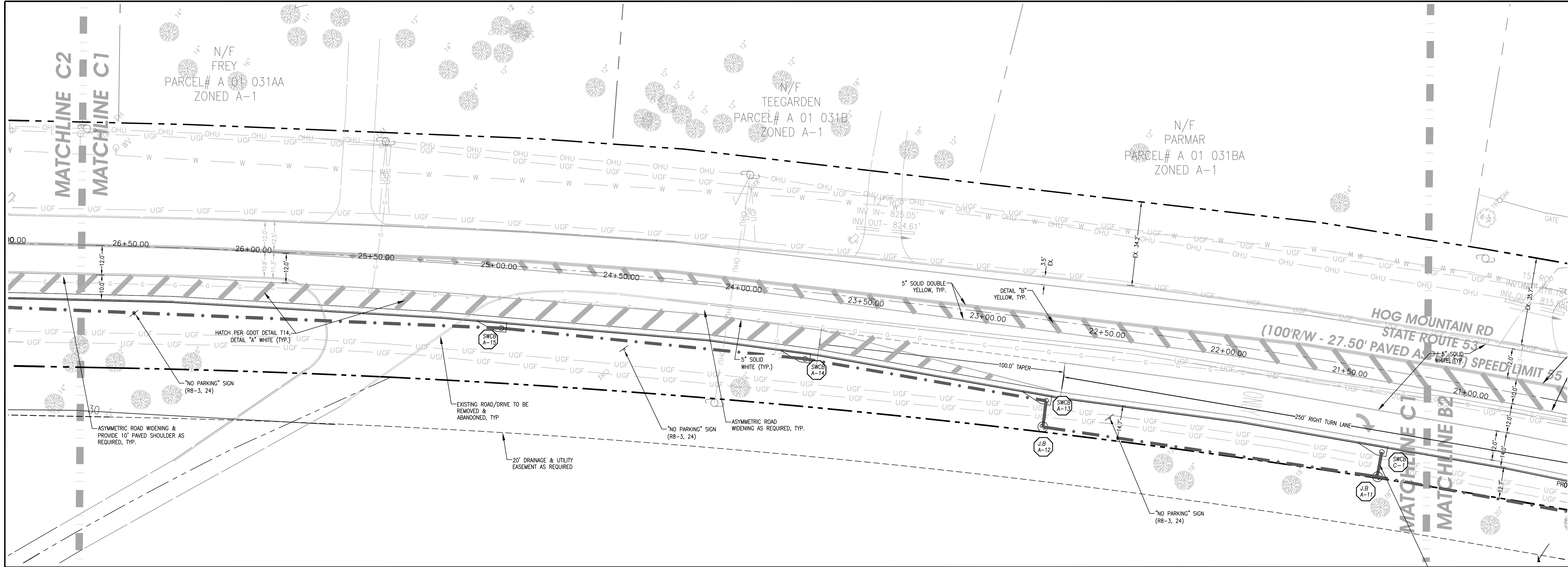
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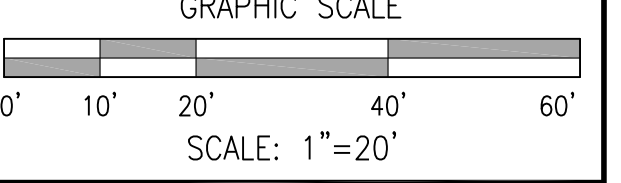
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STRIPING PLAN C



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STRIPING PLAN C3

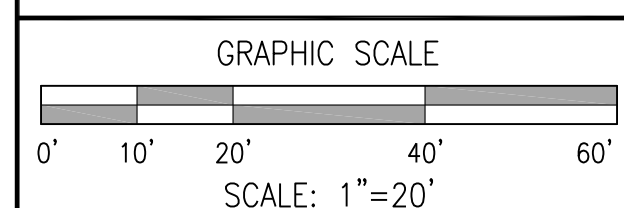


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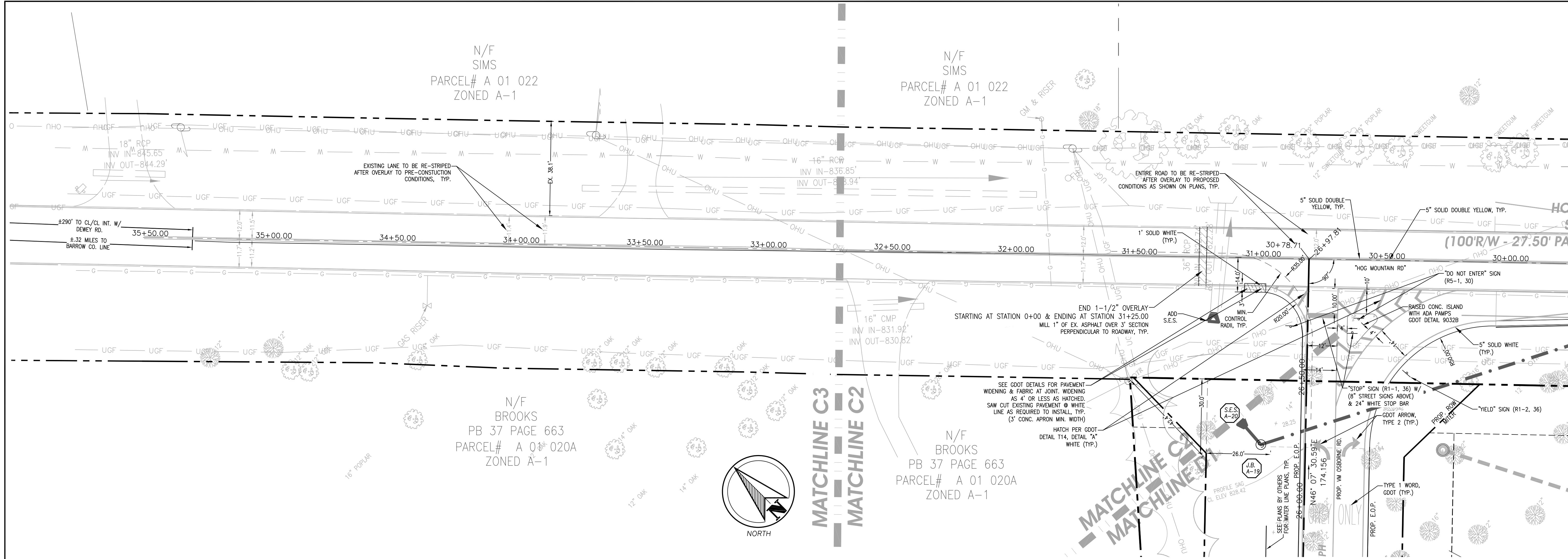
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ALL WORK WITHIN S.R. 53 TO BE COMPLETED TO GDOT STANDARDS, TYP.

ALL TRAFFIC STRIPING WITHIN R/W SHALL BE THERMOPLASTIC.

GEORGIA D.O.T. NOTES

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 2" - 19 mm SUPERPAVE
 8" - 25mm SUPERPAVE
 12" - GRADED AGGREGATE BASE COURSE

NOTICE

THIS PERMIT IS APPROVED SUBJECT TO THE REVISIONS AND COMMENTS SHOWN IN RED ON THE ATTACHED PLAN COPY AND SHALL REMAIN DEPENDENT UPON COMPLIANCE WITH THESE.

NO WORK WILL BE ACCOMPLISHED UNDER THIS PERMIT WITHIN THE CONSTRUCTION LIMITS OF ANY DOT PROJECT WITHOUT WRITTEN APPROVAL OF THE PRIME CONTRACTOR.

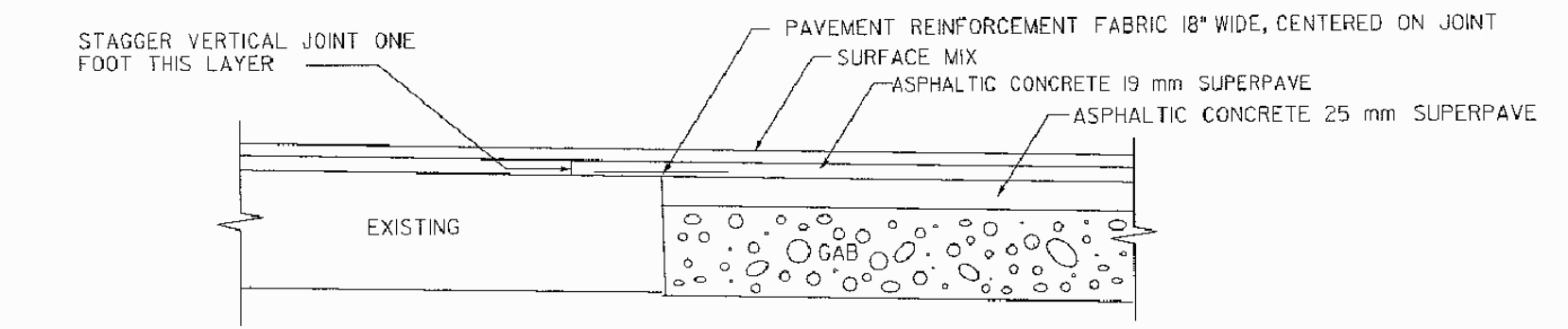
THE MAINTENANCE OF THE DRIVEWAY FROM THE NORMAL EDGE OF PAVEMENT IS THE RESPONSIBILITY OF THE PERMITEE.

OVERLAY SHALL BE AS DIRECTED BY GDOT PERMIT INSPECTOR.

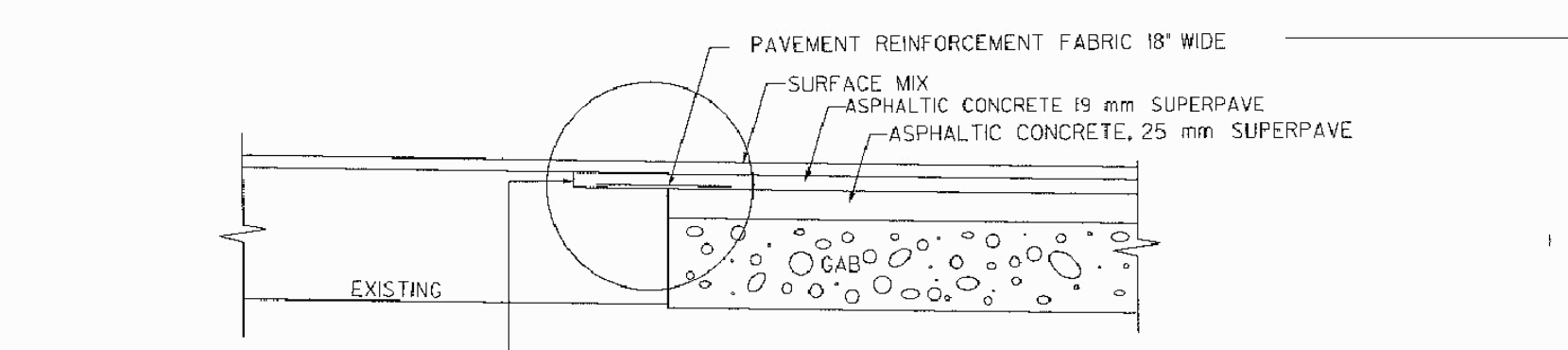
ALL SIDEWALKS, CROSSWALKS AND RAMPS SHALL MEET ADA STANDARDS GDOT DETAILS.

THE APPLICANT IS RESPONSIBLE TO OBTAIN ALL NECESSARY ENVIRONMENTAL APPROVALS PRIOR TO ANY WORK ON STATE R/W.

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH TWO INCHES OR MORE OF ASPHALTIC CONCRETE

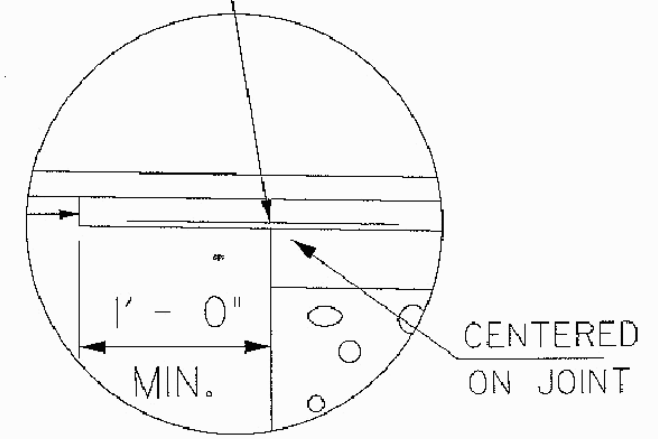


TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE



MILL EXISTING LANE ONE FOOT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED. COST OF MILLING FOR THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT REINFORCING FABRIC.

TYPICAL PAVEMENT REINFORCEMENT FABRIC DETAIL N.T.S.

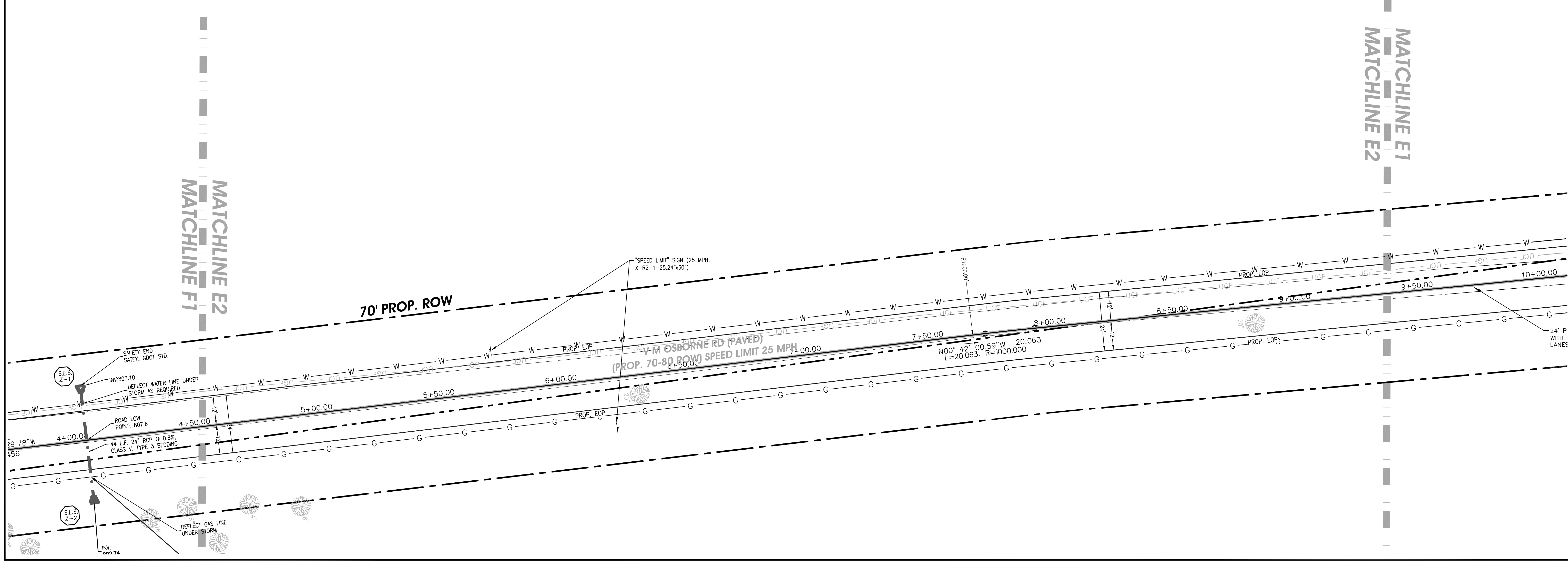
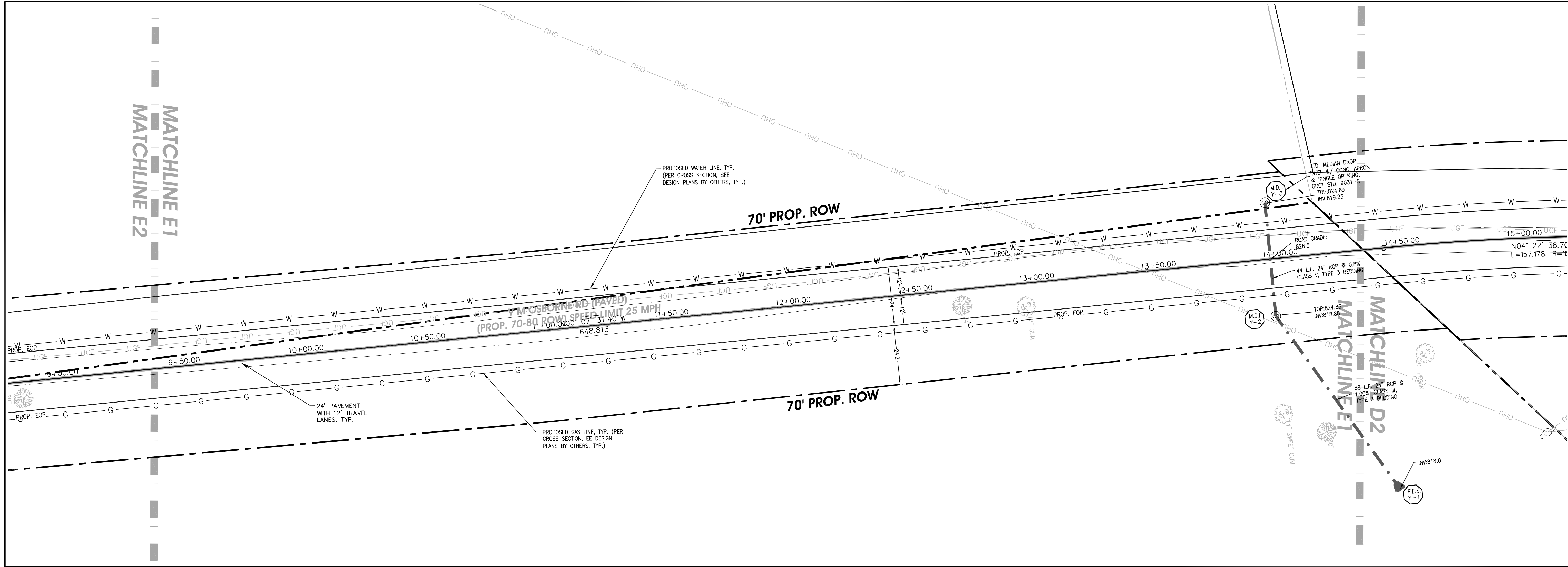


GDOT UTILITY NOTES:

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3. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED BY THE UTILITY OWNER OR A "LOCATES" FIRM PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
4. UTILITY OWNERS MUST PROVIDE GDOT ACCESS/ENCHROACHMENT PERMITS AS PART OF THE WORK DESCRIPTION.
5. ALL NEW OR RELOCATED UTILITY POLES, GUYS & ANCHORS SHALL MEET CLEAR ZONE REQUIREMENTS.

UTILITY OWNERS:

- WATER LINE: OCONEE COUNTY UTILITY DEPT.
- OVERHEAD POWER: WALTON EMC/GA. POWER
- GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
- TELECOM/DATA: AT&T
- TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS



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DOVE CREEK SCHOOL R/W IMPROVEMENTS

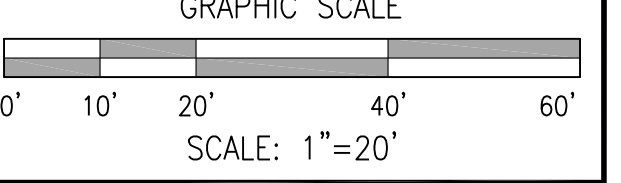
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STRIPING PLAN E



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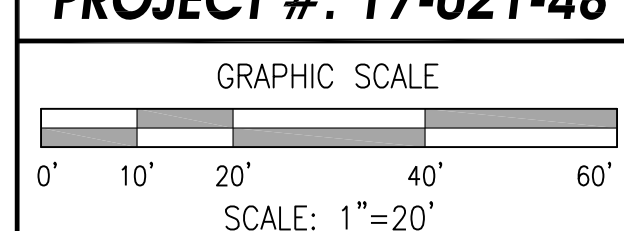
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STRIPING PLAN F

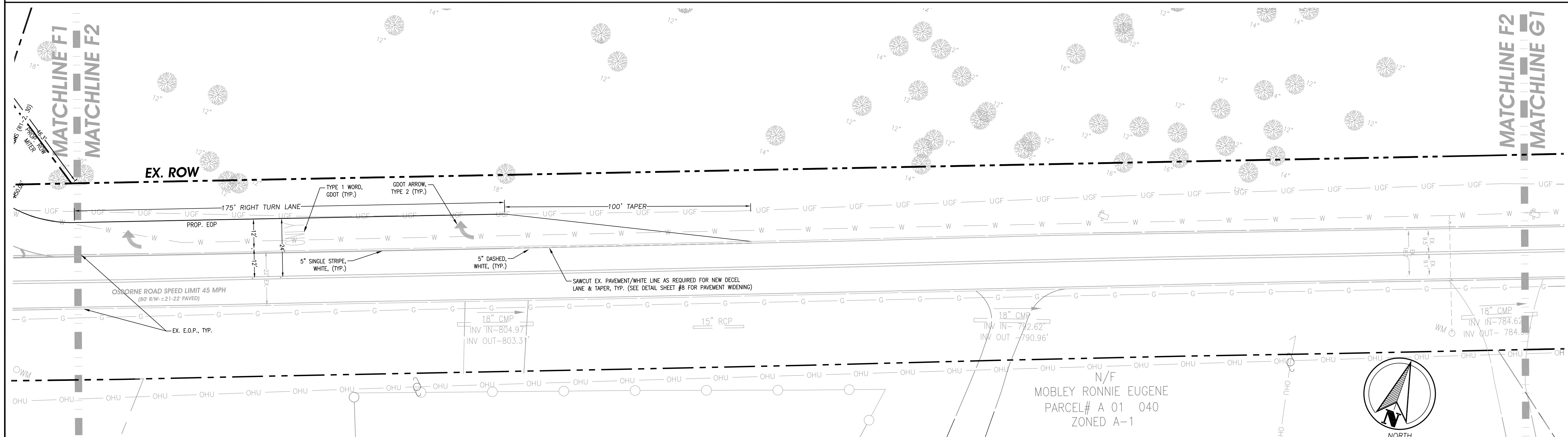
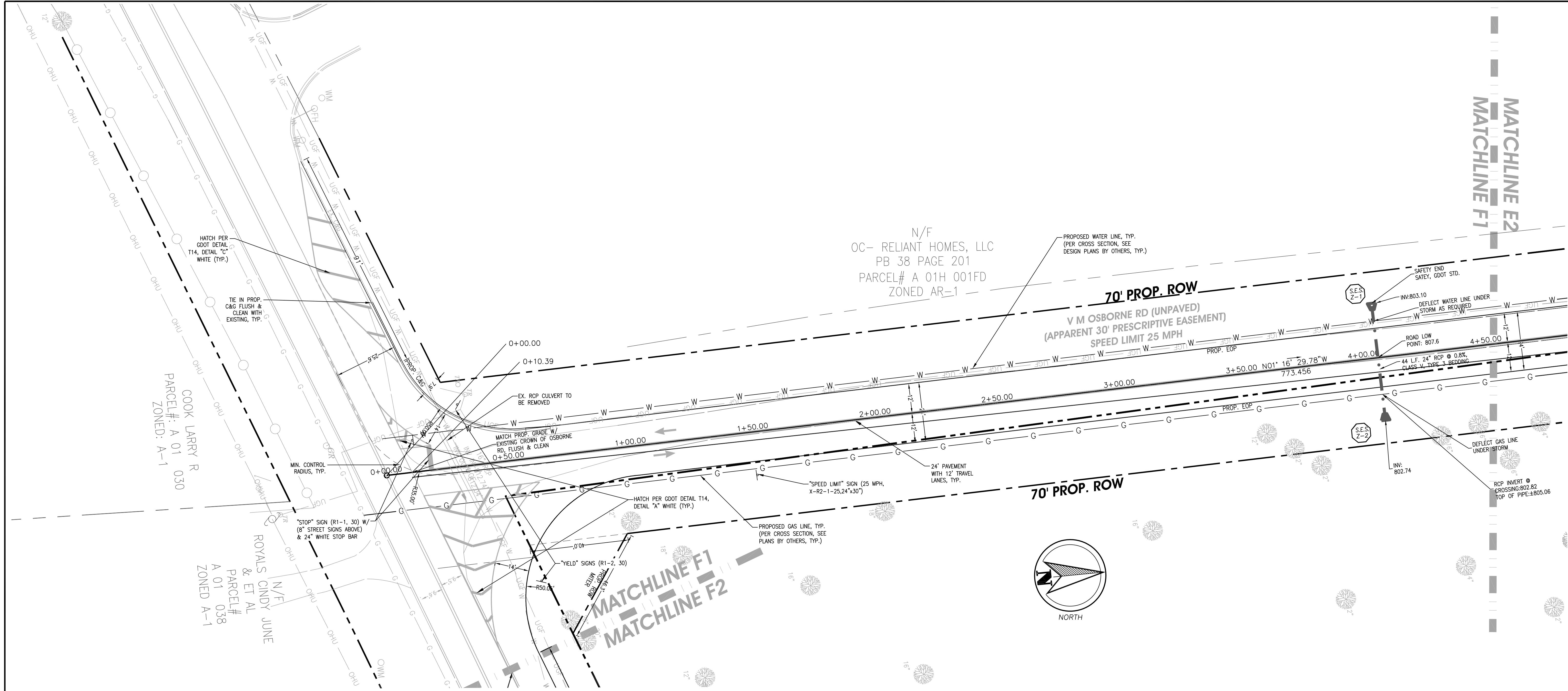


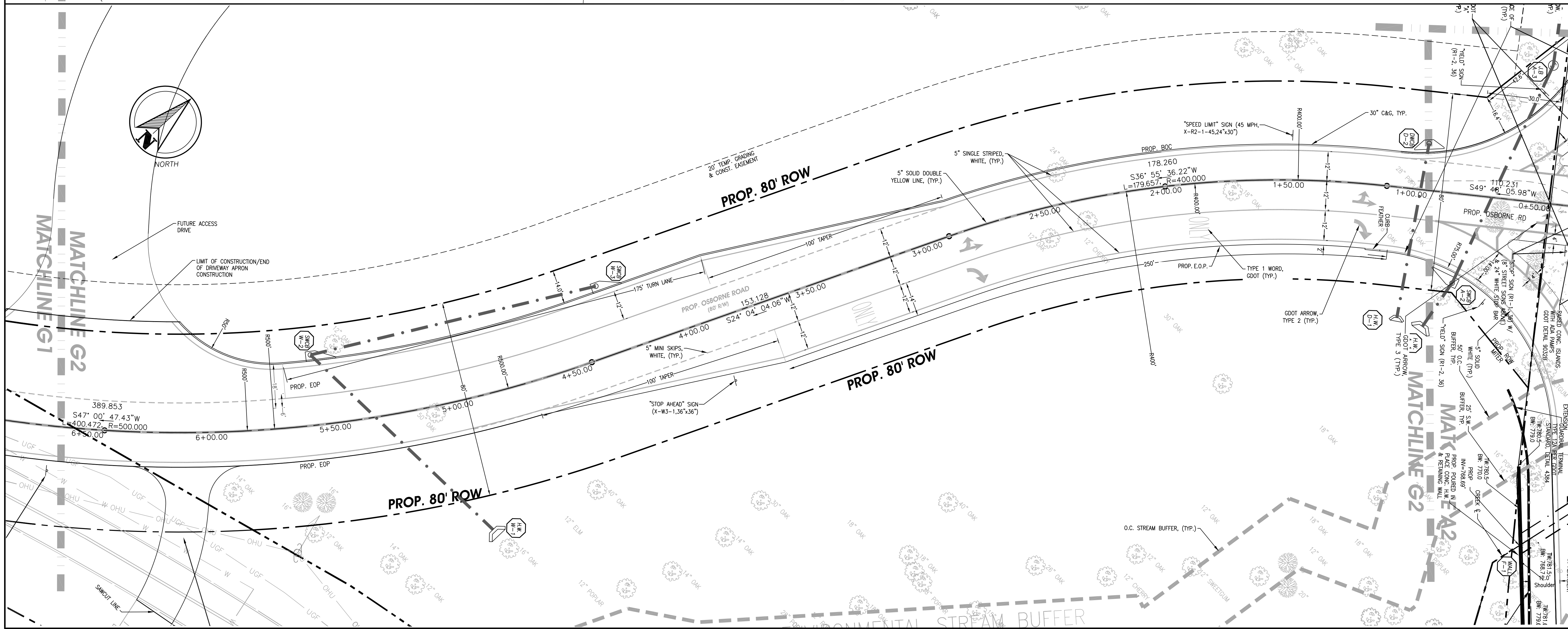
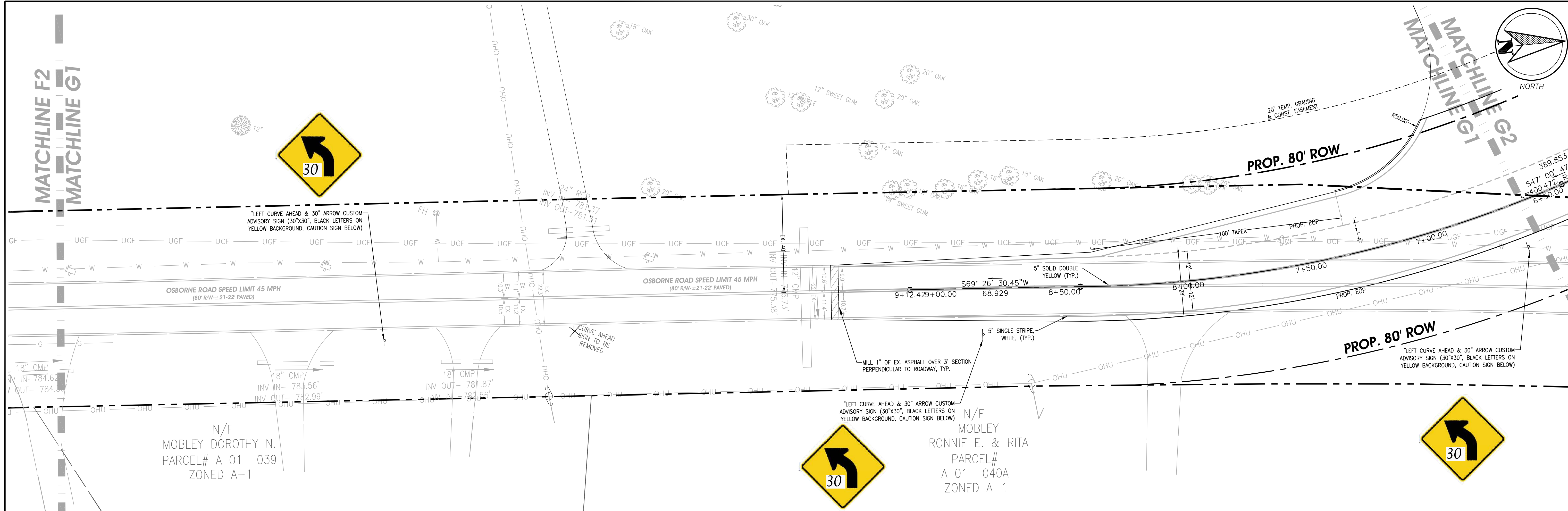
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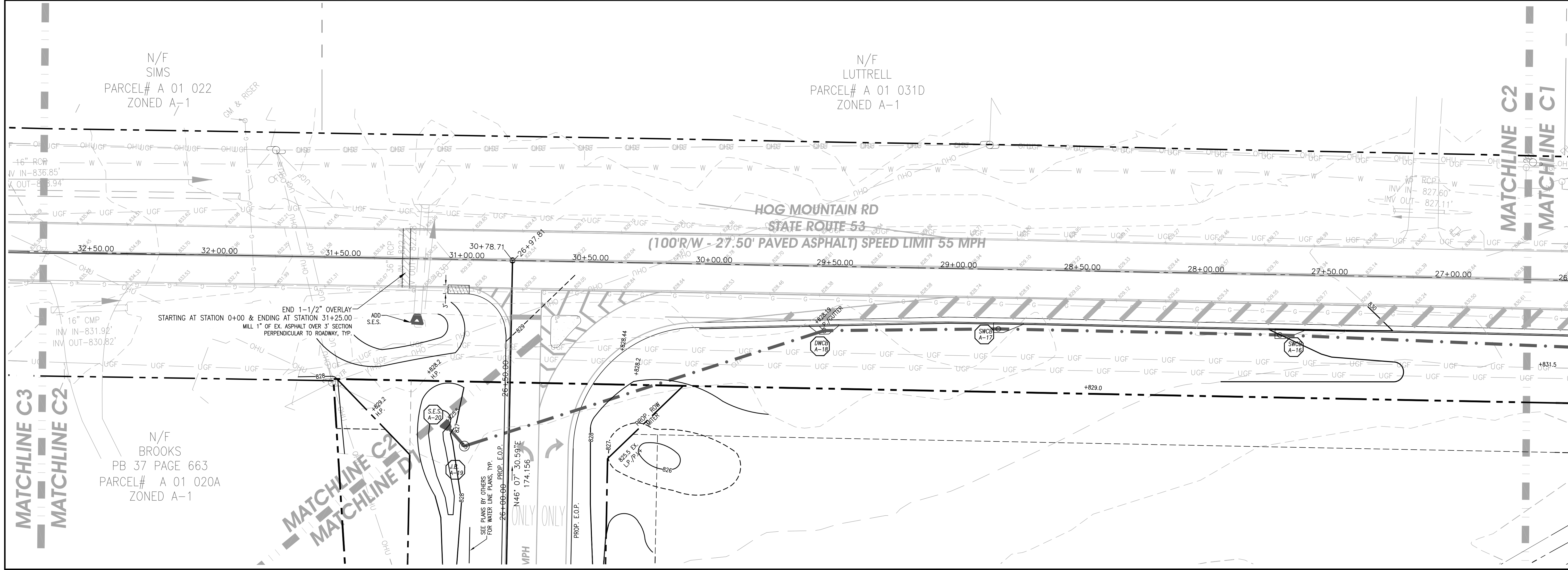
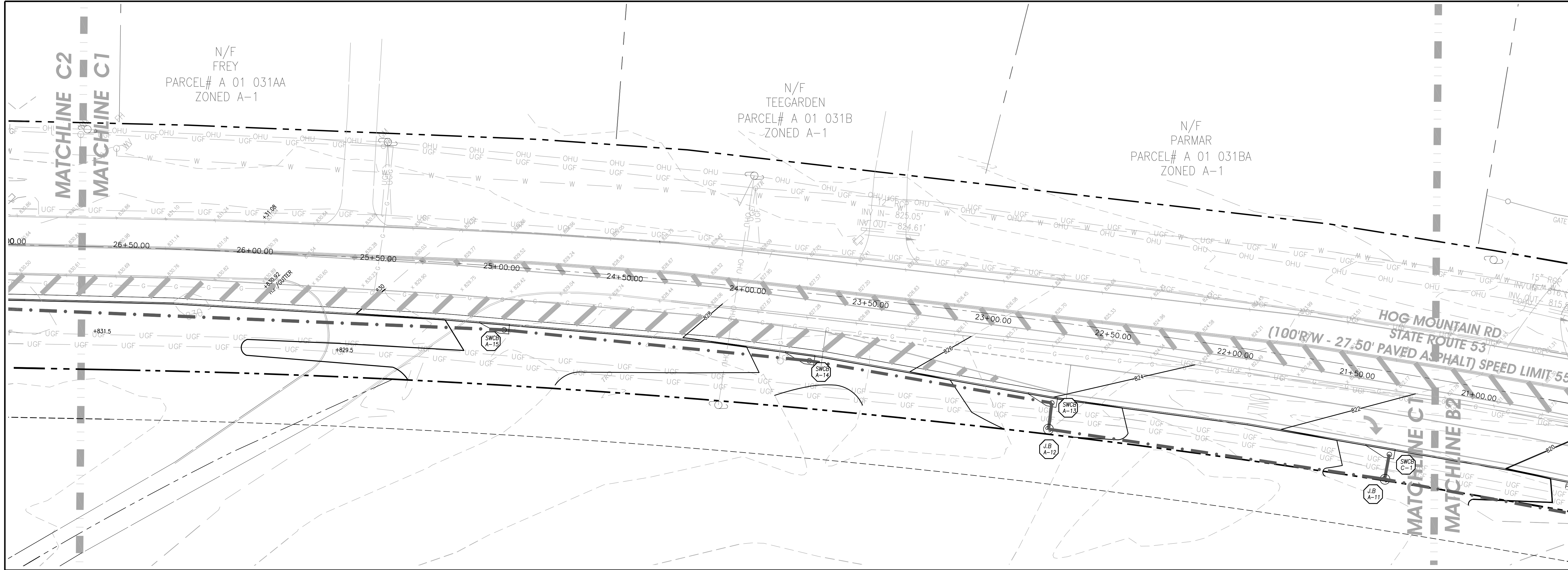
STRIPING PLAN G



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 PROJECT #: 17-021-48
 GRAPHIC SCALE
 0' 10' 20' 40' 60'
 SCALE: 1"=20'

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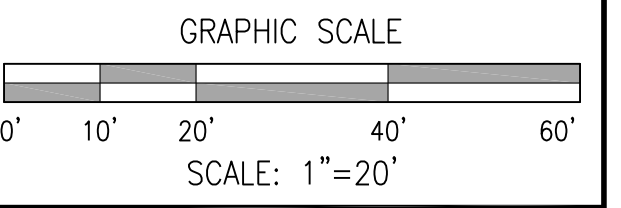
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GRADING PLAN C



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GRADING PLAN C3

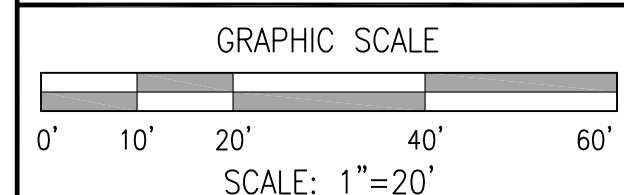


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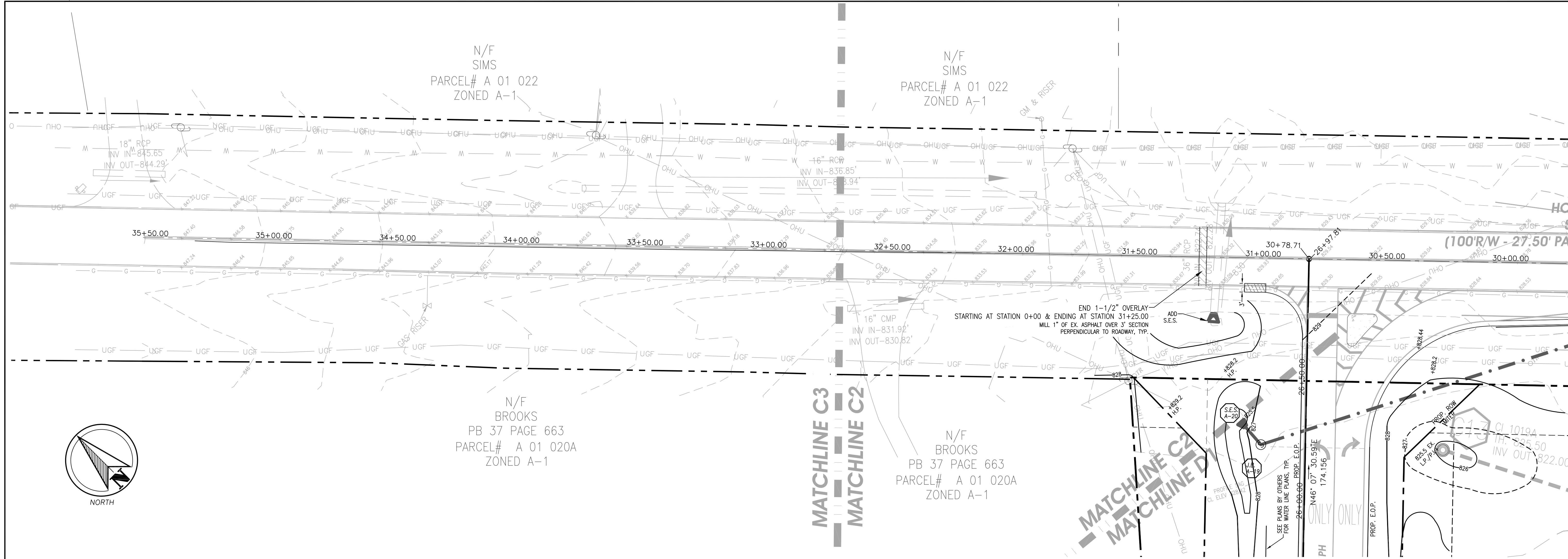
DATE: 2-12-18

PROJECT #: 17-021-48



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- GRADING NOTES:**
- Ground surface shall be stripped of vegetation including grass, roots, debris, top soil and surficial organics; unsuitable soils and deleterious materials shall be removed from ground surface prior to placement of fill materials. Unsuitable soils shall be removed & replaced with suitable or structural fill.
 - Areas steeper than 2 vertical to 1 horizontal (2:1) shall be roughed or plowed for breaking up the surface to allow for better bonding with fill materials. Where existing ground surface has a density less than specified, the area must be plowed, pulverized, augmented with soil conditioning, moisture content adjusted for optimum compaction, and compacted to required depth and specified compaction.
 - All fill areas shall be compacted to a minimum of 98% standard proctor. Fill shall be placed in uniform layer of loose soil between 8-10" for compaction by heavy equipment and 4" for hand-operated tampers.
 - Optimum moisture content shall be achieved during compaction operations. Compact each uniform layer to required compaction classifications.
 - Fill materials or backfill shall not be placed on muddy, frozen, or areas containing frost, ice, or snow.
 - Compact subgrade and layer of fill/backfill to minimum of 95% of the standard proctor to a depth of 6" below bottom of finished grade. The foot print of building must have a compaction of standard proctor to 12" to 18" below bottom of finished grade.
 - Where moisture is required for optimum moisture content, uniformly apply water to surface of fill layer. Moisture or water shall be applied in minimum quantities as necessary to prevent excessive or free water from accumulation on surface during compaction operations.
 - Wet soil materials shall be removed and replaced, or air-dried by scarifying, spreading, and discing until the optimum moisture content is reached.
 - All cut and fill slopes shall be less than or equal to 2 vertical to 1 horizontal (2:1) slopes unless otherwise specified on the plans.
 - Compaction testing shall be performed on each sub-grade and backfill or fill layer before further fill or construction is performed. Test samples shall be random at a rate of one test per 10,000 SF of each 2' lift unless otherwise specified by a registered Geotechnical Engineer. Recommendations from a registered Geotechnical engineer shall supersede specification for compaction and backfilling indicated in this section. Compaction testing shall be performed by an approved soil and compaction testing agency. Compaction test will be required prior GAB placement or C&G construction.
 - The Contractor shall notify the Engineer/Owner immediately upon discovery of any ground water, subsurface seepage or springs during construction. A Geotechnical Engineer shall inspect the site and make necessary remediation recommendations prior to commencing construction.
 - Proof rolling will be required by the Owner, Engineer and local permitting agencies on all graded areas to be paved.
 - Encroachments within tree protection areas shall be prohibited. No parking, storage, or any construction activity shall take place within specified tree protection areas.
 - Water, sewer, and storm sewers shall be installed in strict adherence to the Oconee County AND/OR GDOT standards and regulations.
 - Sediment Pond Maintenance:
 - regularly inspect pond for accumulated silt and debris.
 - remove silt when it reaches 1/3 of pond specified depth.
 - remove temporary structures when site is stabilized and construction is completed.
 - re-grade and re-grass area to specified finished grade.
 - Detention Ponds Maintenance:
 - Inspect the pond outlet structure and dam once every 6 months. Address any repairs that may be required.
 - Remove accumulated debris and silt from around the outlet structure.
 - insure outlet protection is in place.
 - insure safety fence, if required, is in place and functional.
 - Re-grass eroded or bare areas as required.
 - Construction sites that involve over 1.0 acre of disturbed areas shall be required to submit a N.O.I. to the local E.P.D. office, as required by NPDES GAR 10000 (1,2, or 3). contractor shall be listed as permittee/operator. Contractor shall provide NPDES monitoring, testing, inspections & reporting per GA EPD.
 - The Contractor shall be responsible for public safety during construction. The Contractor shall be responsible to follow OSHA guidelines for safe practices and excavations.
 - Grading shall provide a minimum of 2% slope on pervious areas and 1% minimum on hard scapes unless otherwise specified on the plans. Slopes shall be constructed as specified on plans.
 - The Contractor shall maintain access to the site to insure emergency vehicular access is not impeded.
 - Damage to public roadways and sidewalks beyond project areas shall be the sole responsibility of the Contractor.
 - Reservees
 - Property lines and rights-of-ways shall be marked and/or confirmed by the Contractor prior to footing inspection and/or commencing construction.
 - BMP's shall be installed as specified on the soil erosion and sediment control plans prior to grading activities. The tree save areas/protection areas shall be well marked at all times during construction.
 - All curb and gutter sections shall be highback unless otherwise specified on the plans.
 - All curb and gutter sections shall be highback unless otherwise specified on the plans. Unsuitable soils shall be removed, undercut, and replaced with suitable soil or #57 gravel as specified by Engineer.
 - H/C ramps and sidewalks, when accessible, shall be constructed in accordance with the Americans with Disabilities Act (ADA), as amended. Ramps shall have proper hand/safety railing and shall not exceed 8.33% slope. Sidewalks shall not exceed 5% longitudinal slope & 2% cross slope.
 - The Contractor shall coordinate utility construction and connections with the appropriate utility agencies. The Contractor shall be responsible for field verifications of all existing utilities (overhead and underground) prior to construction. Inverts of existing sewer and storm drain lines shall be field verified prior to construction.
 - Any discrepancy found in the field in relation to construction plans shall cause the Contractor to stop work immediately and report the discrepancy to the Engineer ASAP.
 - Fill areas shall be compacted to minimum 98% standard proctor as specified on the plans prior to constrion of water lines, sewer lines and storm drain lines. Grades shall be established to plus/minus one foot of final grade prior to installation of water, sewer, and storm drain lines.
 - Pipe materials:
 - All corrugated steel pipe shall be Aluminized Corrugated Steel Pipe (ACSP), Type 2, 16 gauge minimum unless otherwise specified.
 - Asphalt Coated Corrugated Metal Pipe (ACCOMP) may be used only when specified and approved by Engineer.
 - Reinforced Concrete Pipe (RCP) shall be Class III as specified under ASTM standards.
 - Double Wall Corrugated HDPE smooth invert Pipe shall only be used where specified by Engineer.
 - All areas where new pavements and curb and gutter are proposed to tie with existing pavements and curb and gutter shall be saw cut in straight line conforming to the proposed pavement. Existing and proposed pavements shall tie together flush and clean unless otherwise specified.
 - Storm water management shall be in accordance with county, state, and other appropriate Ordinances and Regulations in effect at time of construction plan approval.
 - Contractor shall be responsible for installing & maintaining, replacement of all ES & PC BMP's. (Structural & Non-Structural) Removal of Silt Fence as Required.

GENERAL STORM & STORM STURCTURE NOTE:
 -ALL "CMP" PIPES SHALL BE ULTRA FLOW TYPE II ALUMINIZED.
 -ALL STORM STRUCTURES SHALL BE GDOT STANDARD STRUCTURES.
 THE STRUCTURES CAN BE PRECAST.

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 -GAS LINE: ATLANTA GAS LIGHT CO./WINDER GAS
 -TELECOM/DATA: AT&T
 -TELECOM/DATA/CABLE: CHARTER COMMUNICATIONS

GENERAL UTILITY NOTE:
 LOCATE & POTHOLE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO GRADING & PIPE INSTALLING, TYP. FOLLOW ALL REQUIREMENTS FOR CALLING 811 & GDOT NOTIFICATION/GDOR.



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GRADING PLAN D

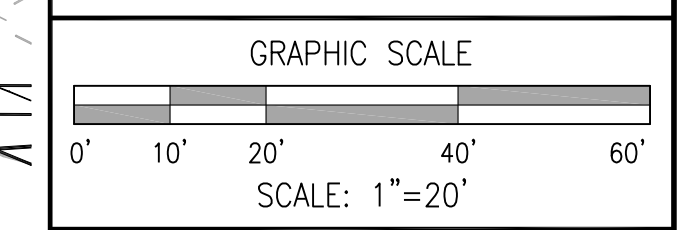


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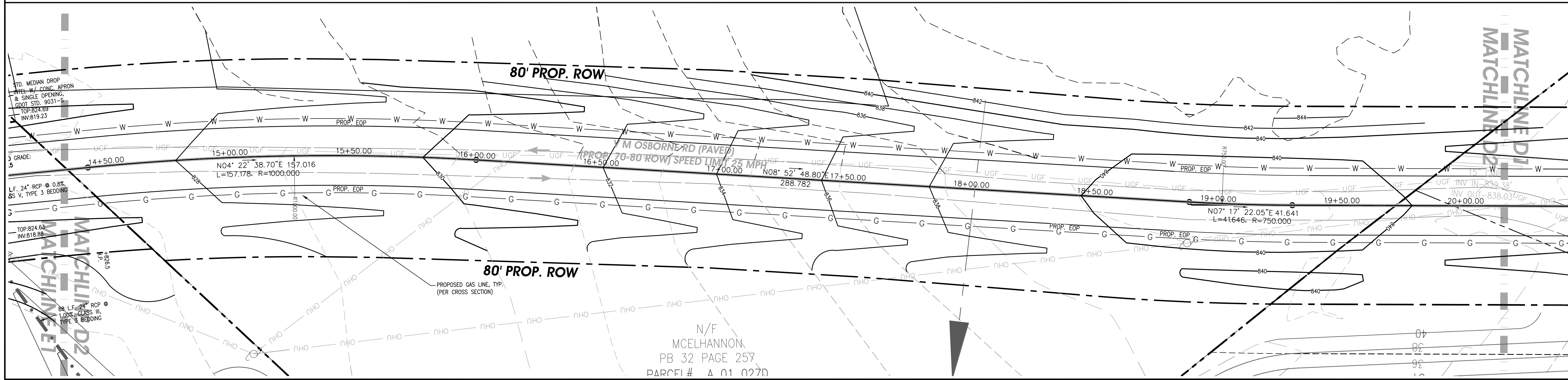
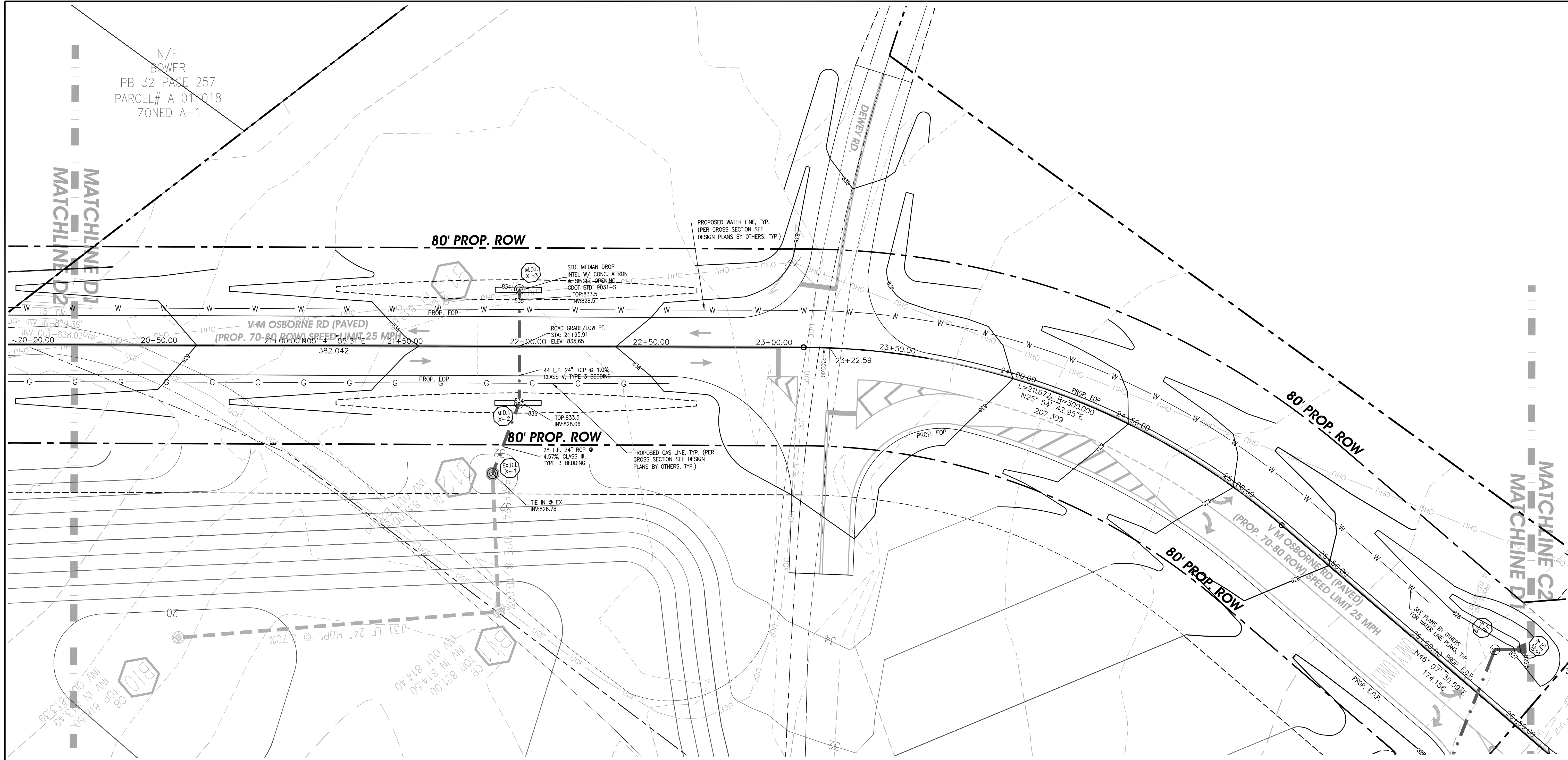
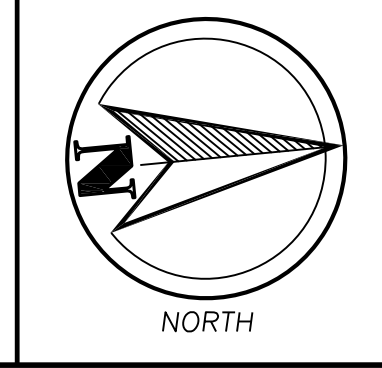
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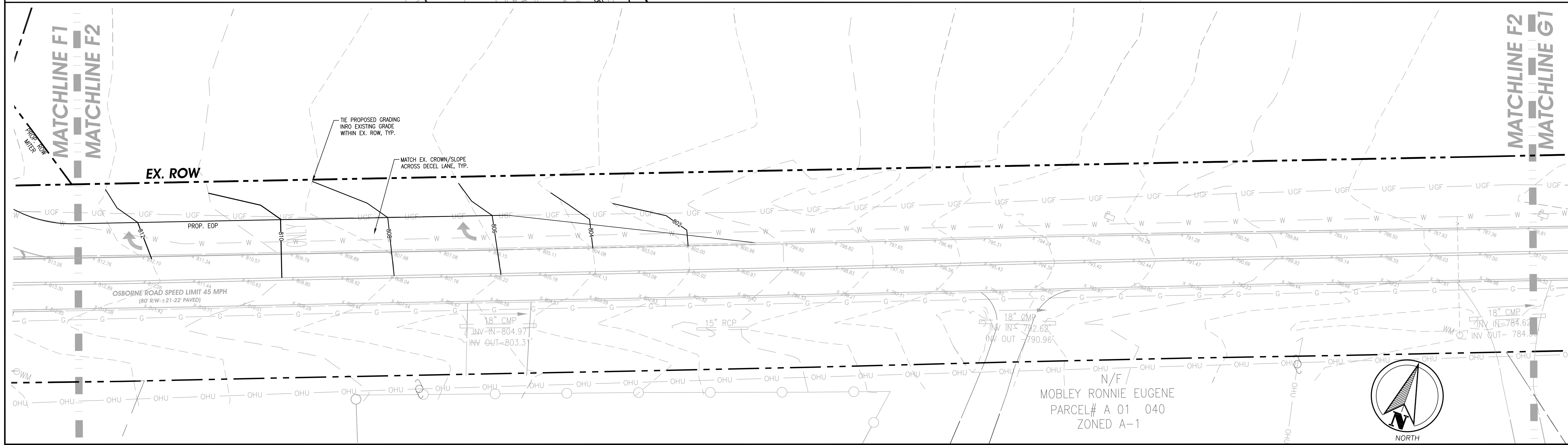
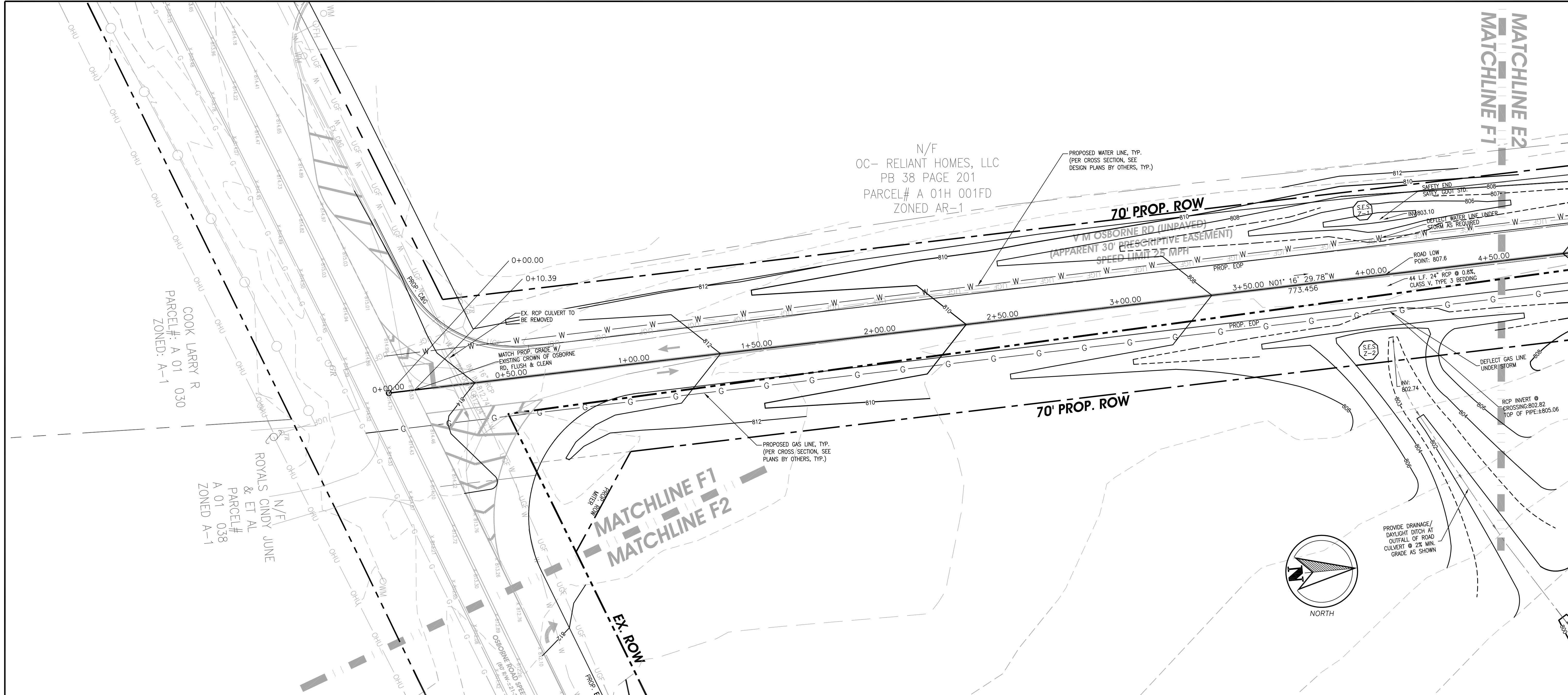
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N/F BOWER
 PB 32 PAGE 257
 PARCEL# A 01 018
 ZONED A-1

N/F MCELHANNON
 PB 32 PAGE 257
 PARCEL# A 01 027D



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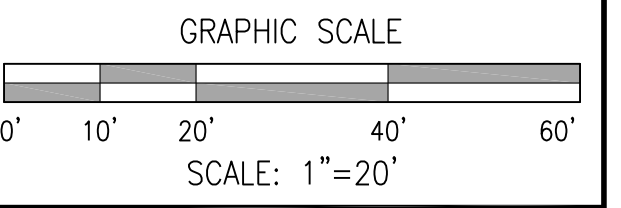
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GRADING PLAN F

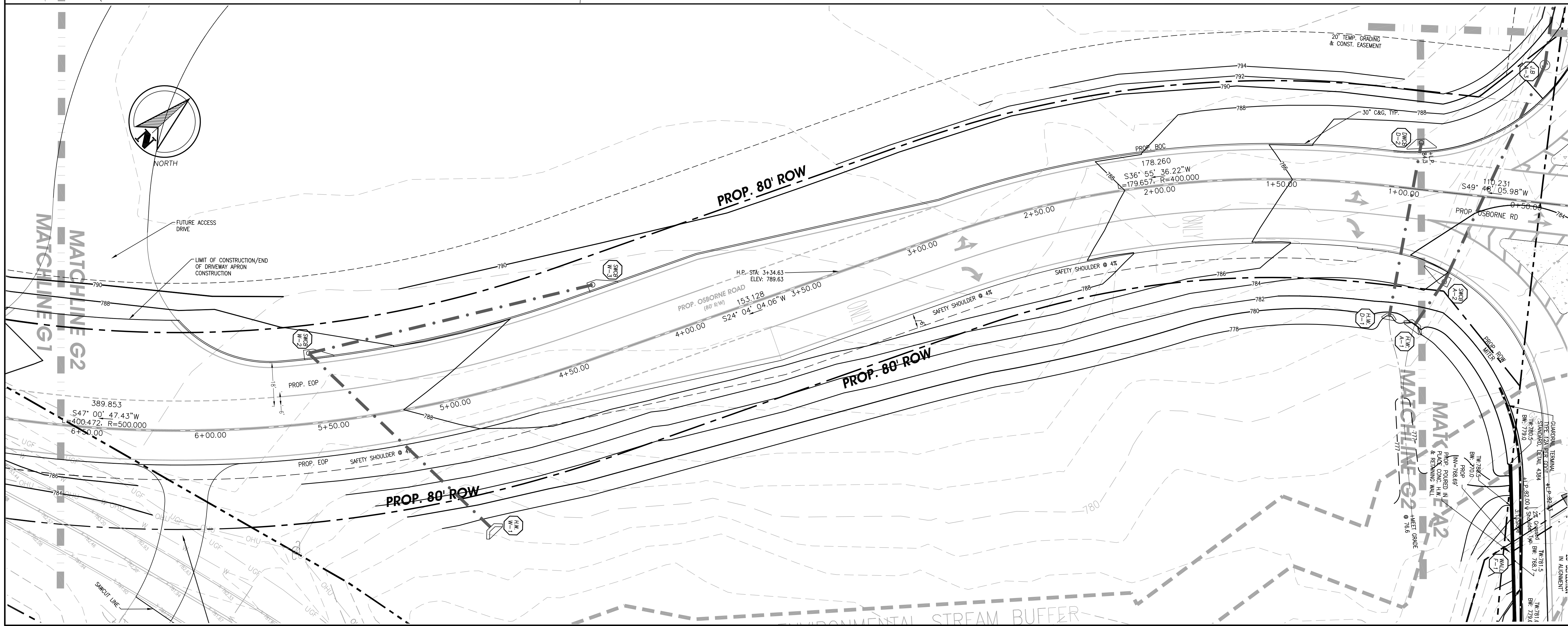
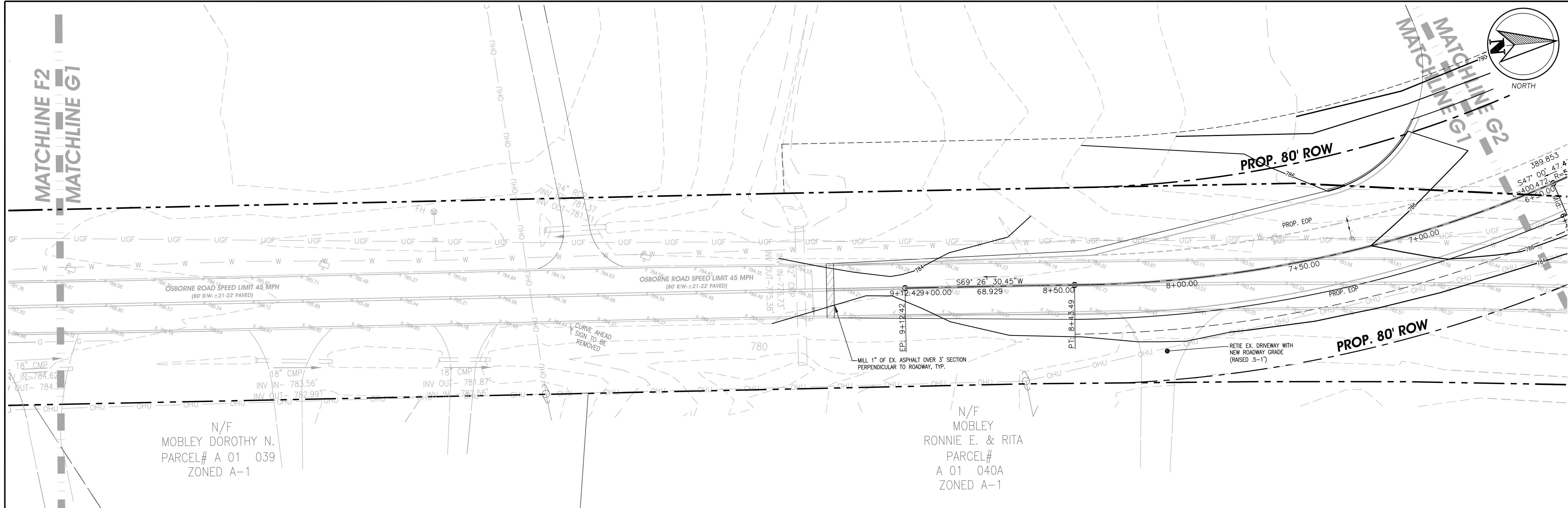


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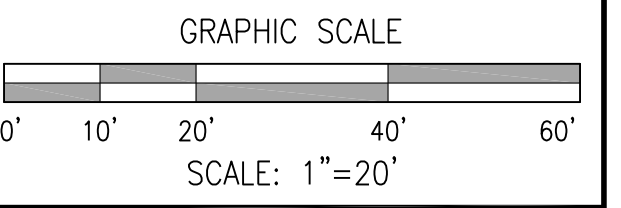
7921 HOG MOUNTAIN RD.
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GRADING PLAN G



REVISIONS	DATE

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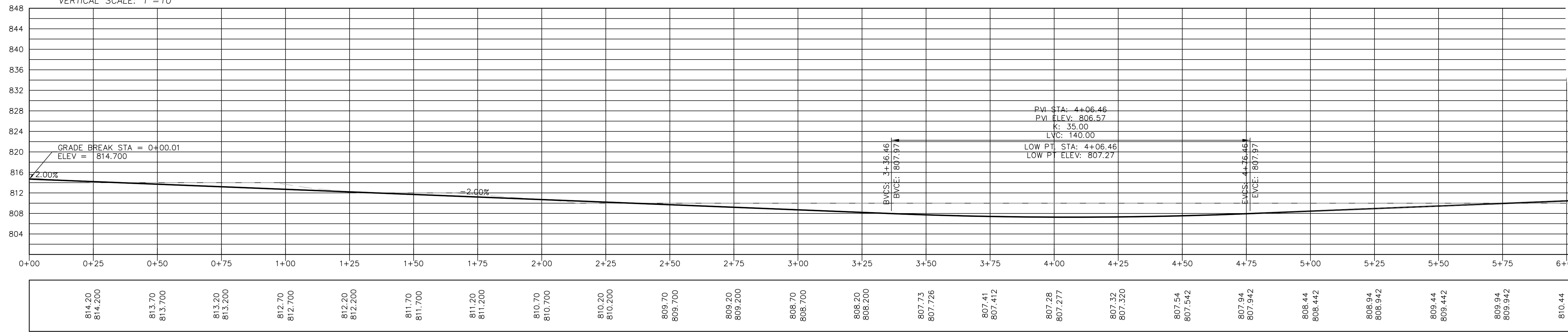
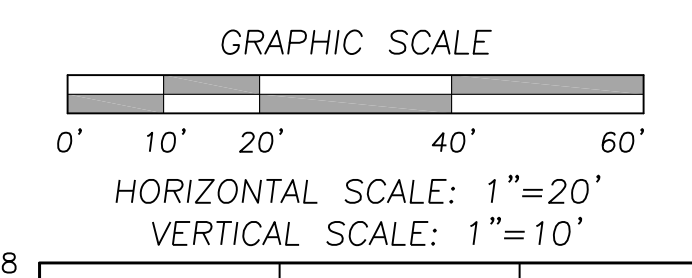
VM OSBORNE ROAD PROFILE PART "A"



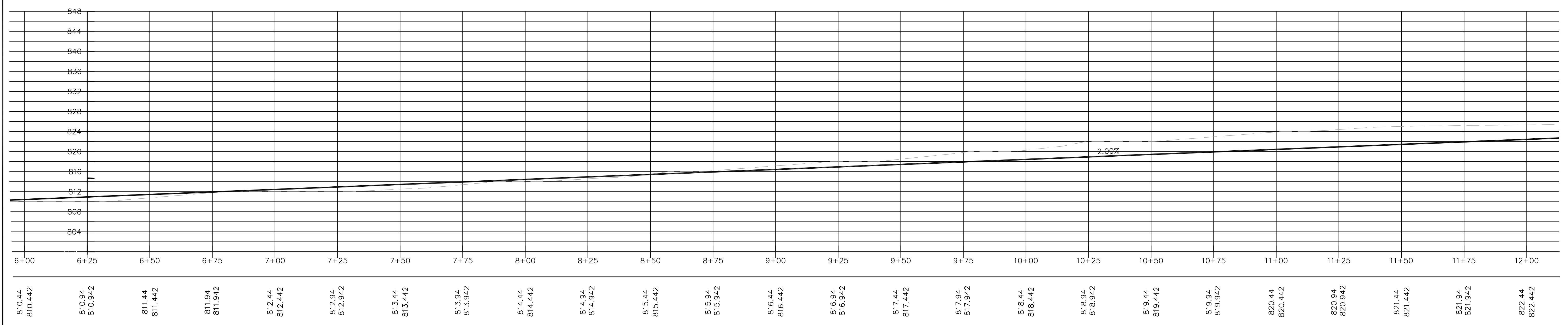
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DATE: 2-12-18
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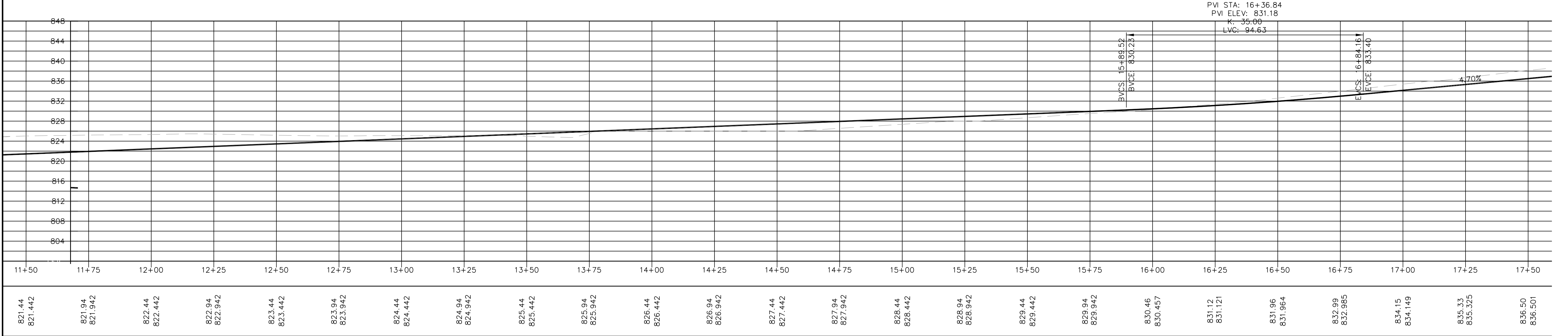
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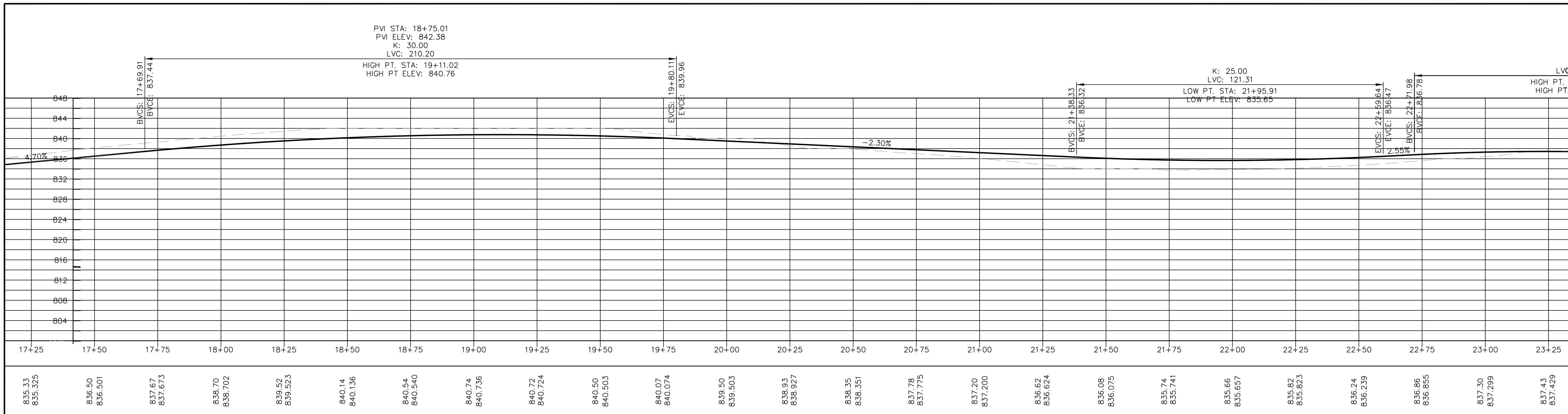
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814.200	813.700	813.200	812.700	812.200	811.700	811.200	810.700	810.200	809.700	809.200	808.700	808.200	807.726	807.412	807.277	807.320	807.542	807.942	808.442	808.942	809.442	809.942	810.442



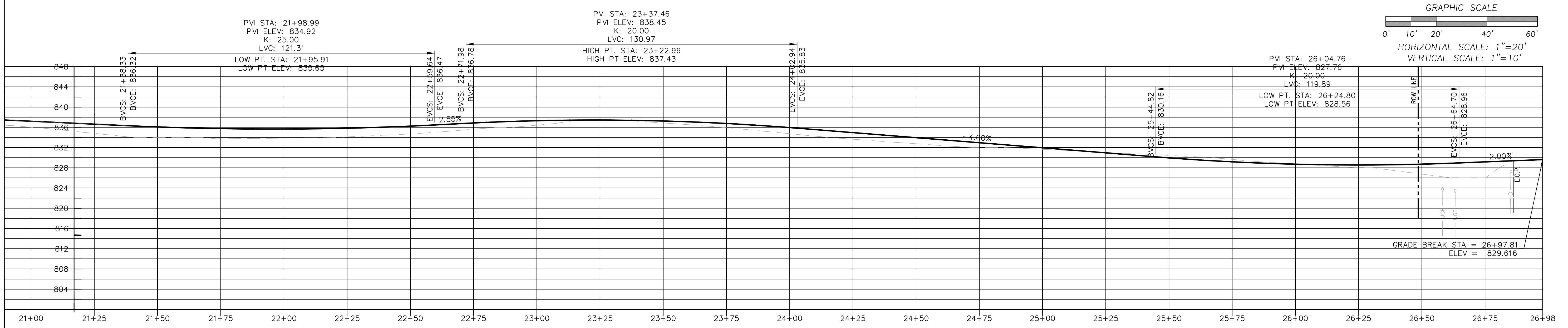
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810.442	810.942	811.442	811.942	812.442	812.942	813.442	813.942	814.442	814.942	815.442	815.942	816.442	816.942	817.442	817.942	818.442	818.942	819.442	819.942	820.442	820.942	821.442	821.942	822.442



821.44	821.94	822.44	822.94	823.44	823.94	824.44	824.94	825.44	825.94	826.44	826.94	827.44	827.94	828.44	828.94	829.44	829.94	830.46	831.12	831.96	832.99	834.15	835.33	836.50
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837.20	836.62	836.08	835.74	835.66	835.82	836.24	836.86	837.30	837.43	837.25	836.75	835.95	834.95	833.95	832.95	831.95	830.95	829.96	829.56	828.72	829.16	829.62
837.200	836.624	836.075	835.741	835.657	835.823	836.239	836.855	837.299	837.429	837.248	836.753	835.947	834.949	833.949	832.949	831.950	830.950	829.957	828.558	828.717	829.161	829.616

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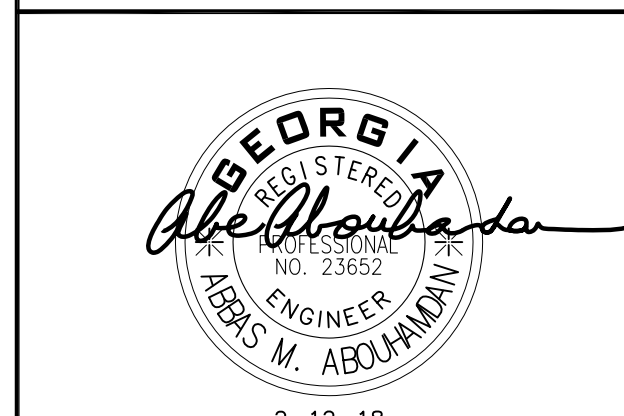
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VM OSBORNE ROAD PROFILE PART "B"



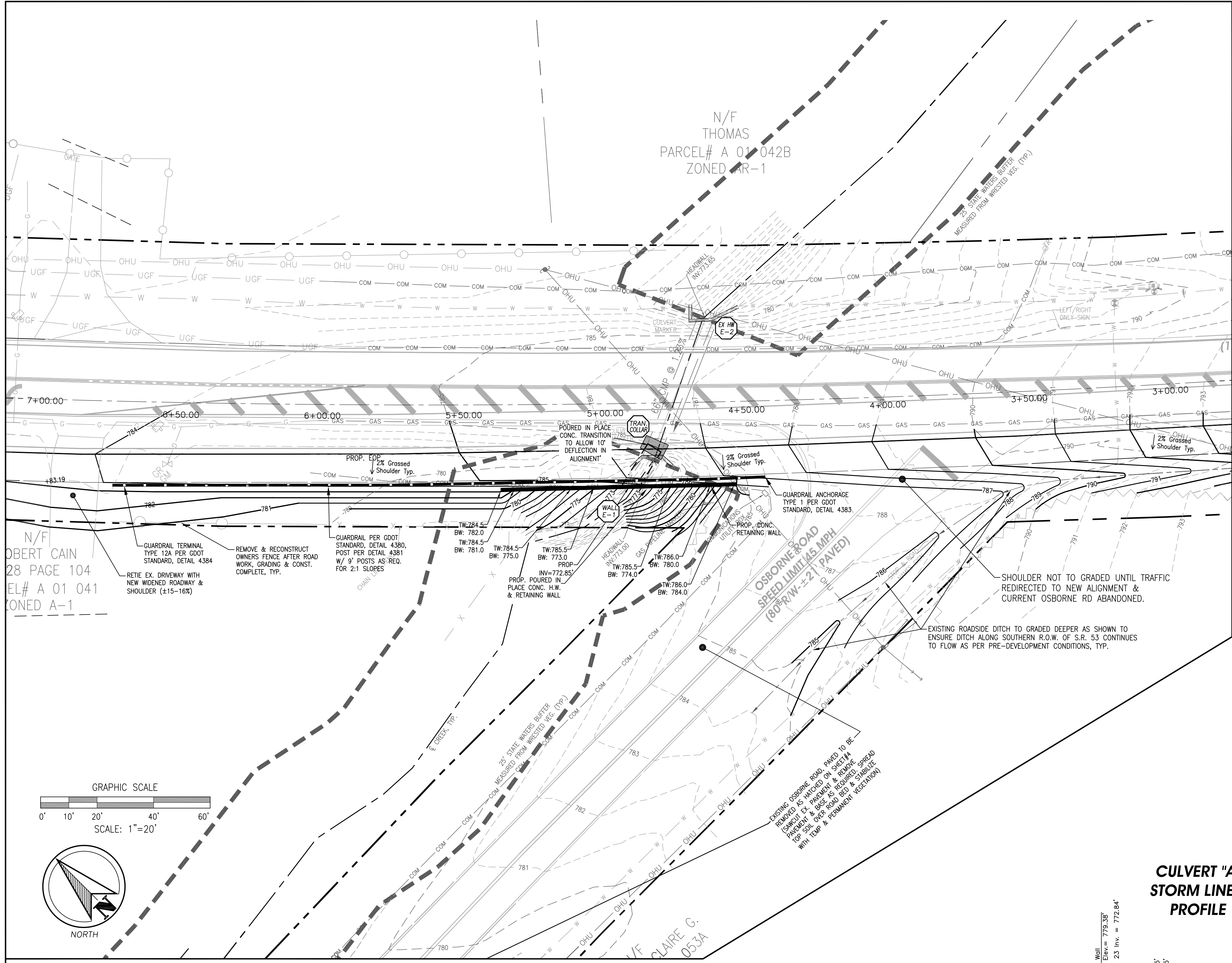
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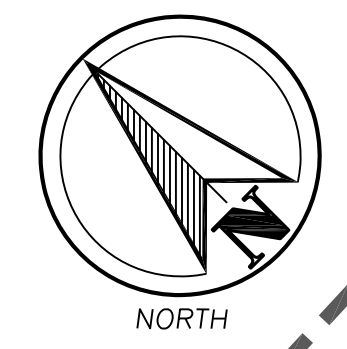
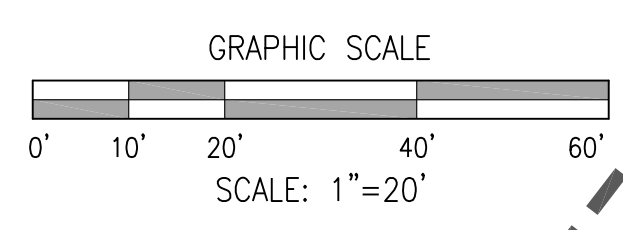
DATE: 2-12-18

PROJECT #: 17-021-48

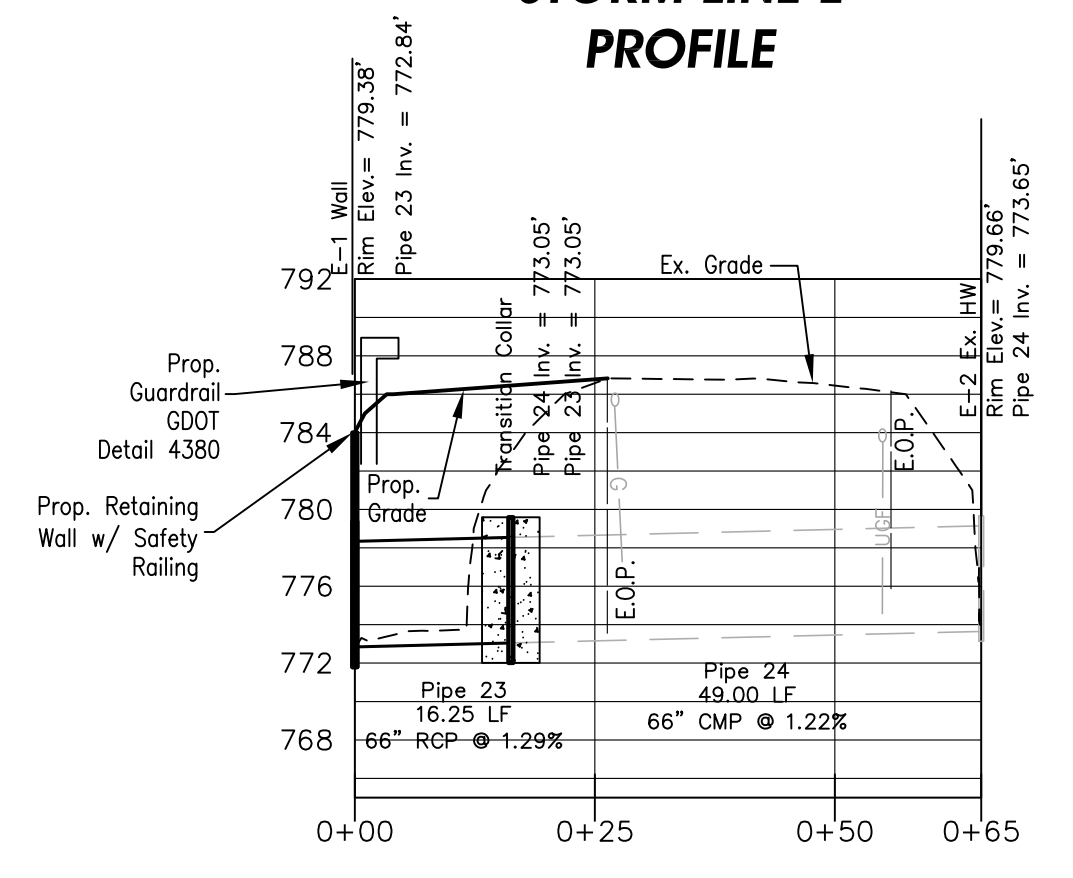
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**CULVERT "A"
 STORM LINE E
 PROFILE**



**HORIZONTAL: 1"=20'
 VERTICAL: 1"=10'**



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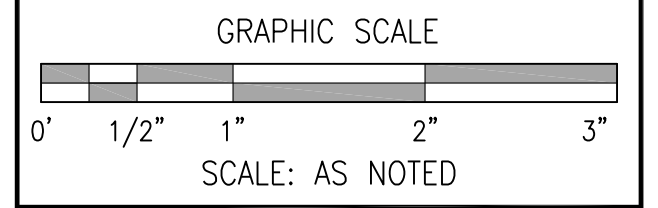
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**CULVERT CROSSING
 PLAN "A"
 & PROFILE**

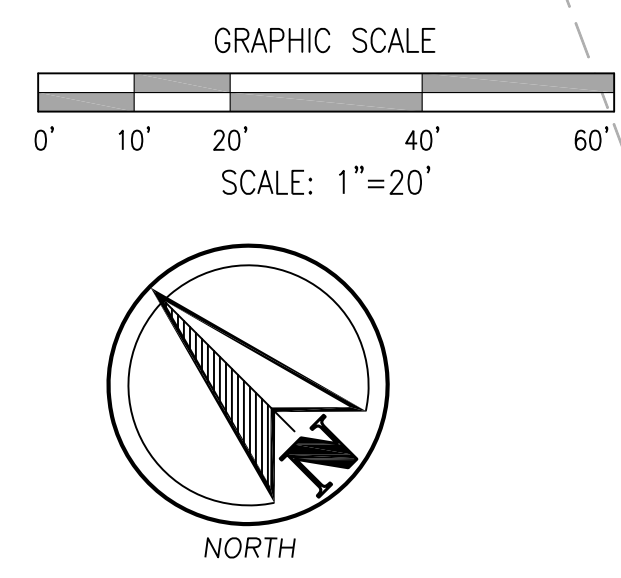
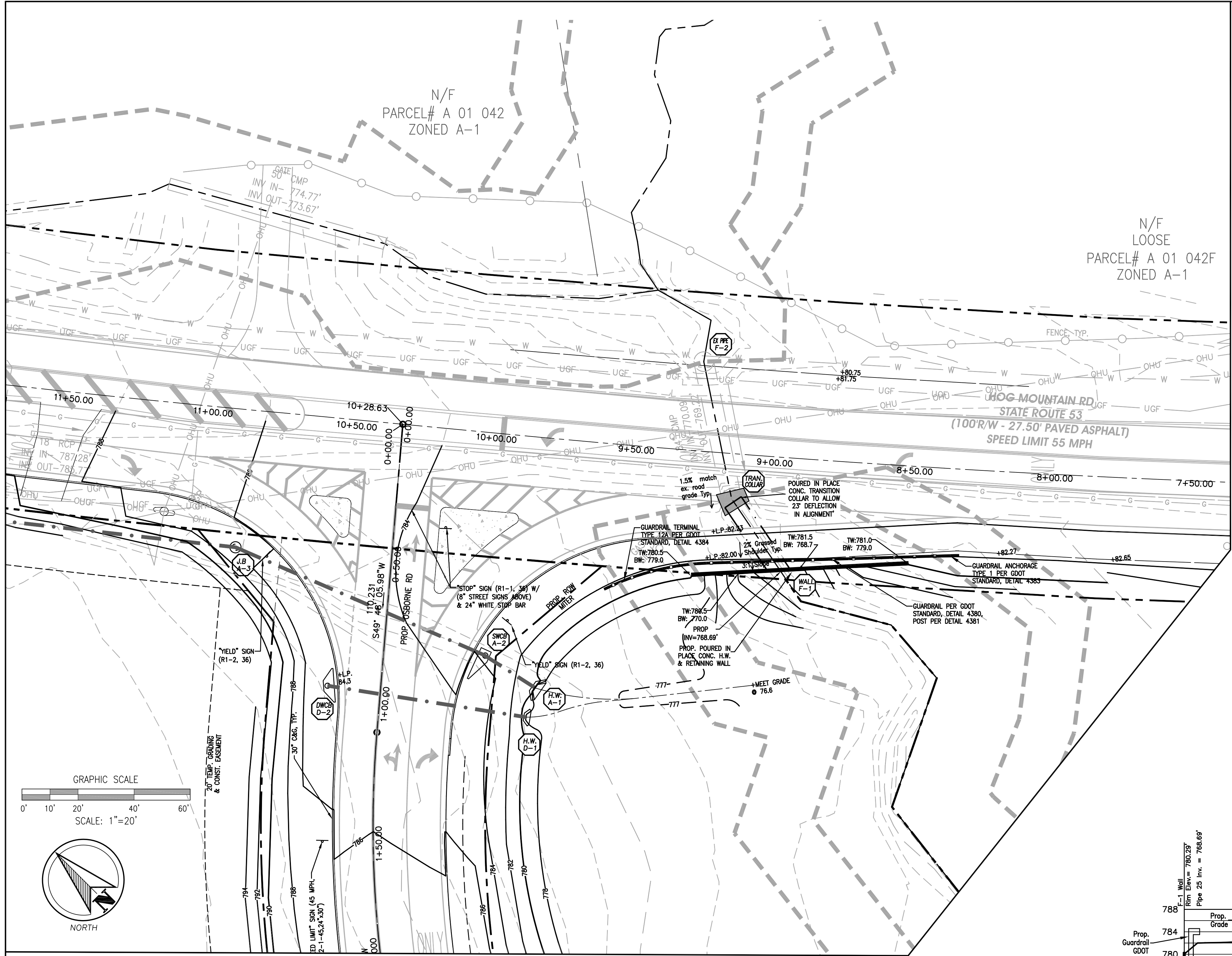


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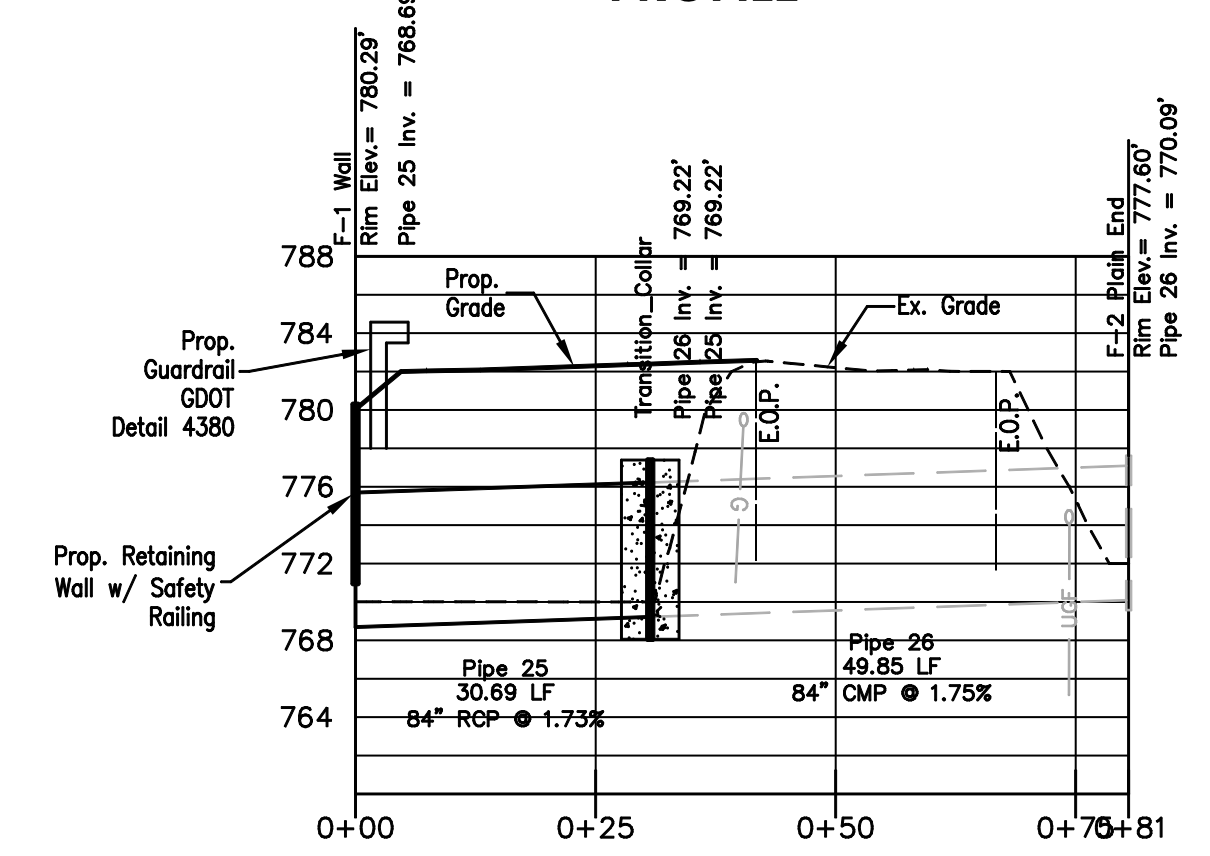
DATE: 2-12-18
PROJECT #: 17-021-48



SHEET #
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**CULVERT "B"
STORM LINE F
PROFILE**



**HORIZONTAL: 1"=20'
VERTICAL: 1"=10'**



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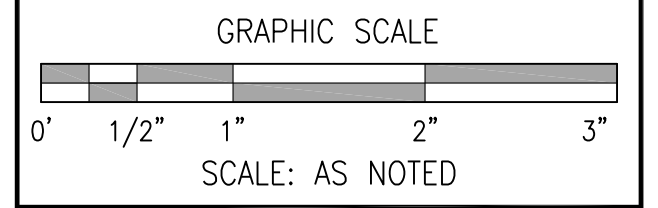
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**CULVERT CROSSING
PLAN "B"
& PROFILE**



REVISIONS	DATE

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61

STRUCTURAL GENERAL NOTES:

SECTION A: GENERAL

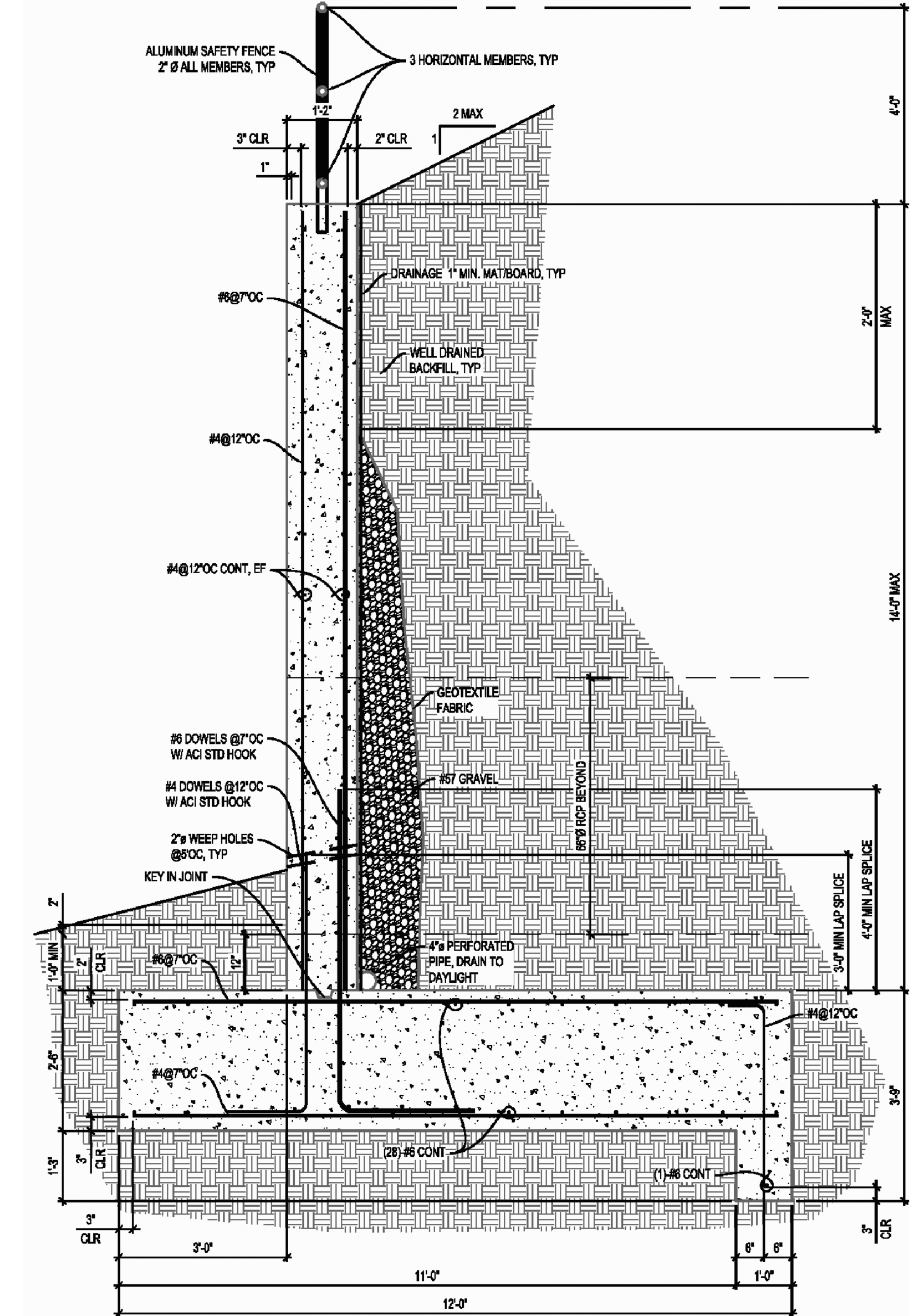
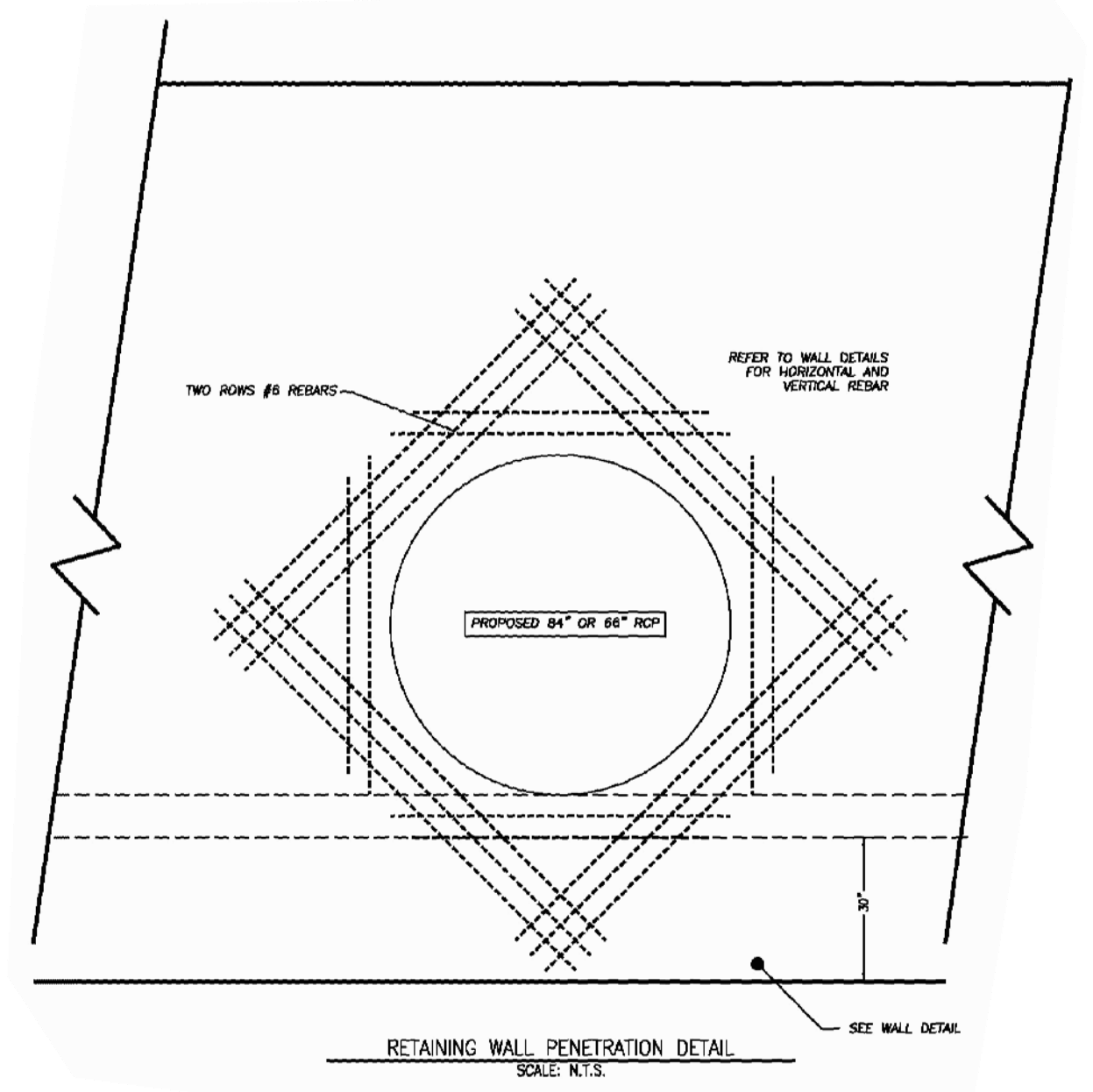
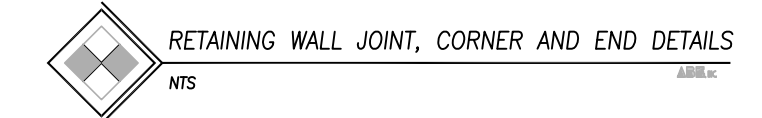
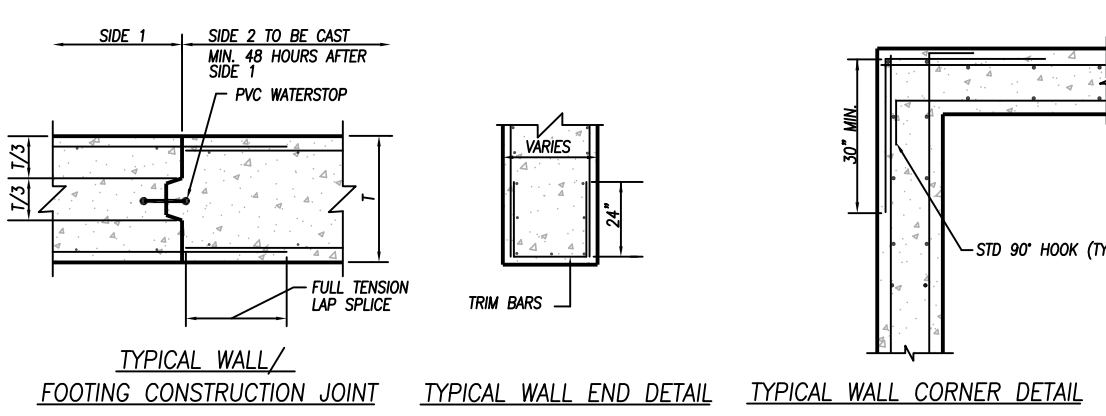
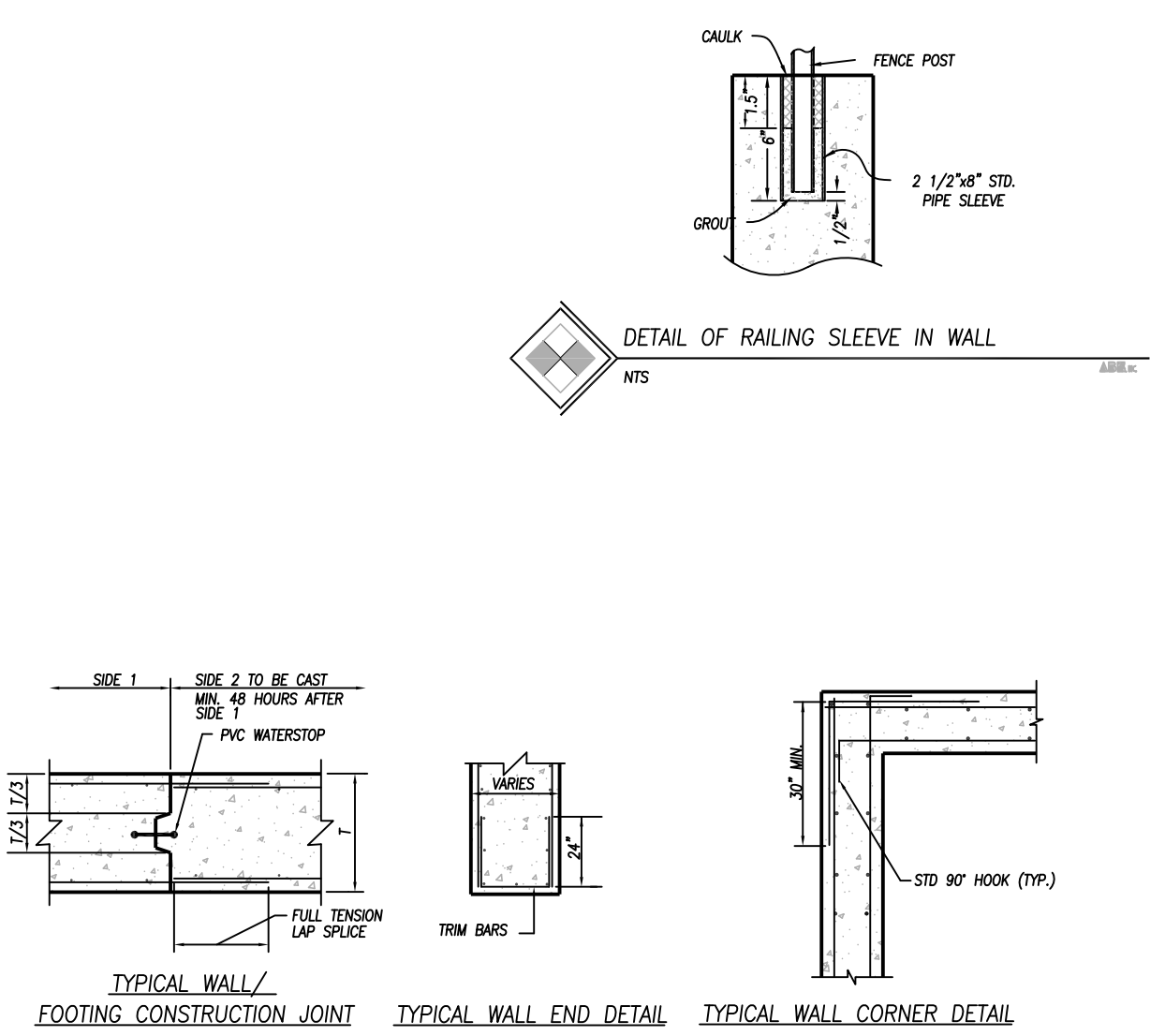
- THESE NOTES SHALL APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
- THE SCOPE OF SERVICES PROVIDED BY ABE CONSULTING, INC. (ABE) WAS LIMITED SOLELY TO THE STRUCTURAL DESIGN OF THE NEW COMPONENTS SPECIFIED HEREIN. THIS STRUCTURAL DRAWING SET IS INTENDED AS A "BUILDER'S SET" FOR USE BY A CONTRACTOR WITH EXTENSIVE EXPERIENCE IN SUCH WORK. ANY DETAILS, COMPONENTS, ETC. NOT SPECIFIED HEREIN ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH IBC 2012 PROVISIONS. UPON RECEIPT OF THESE DRAWINGS, THE CONTRACTOR SHALL CLOSELY REVIEW ALL OF THE INFORMATION HEREIN AND SHALL NOTIFY ABE IF MORE INFORMATION IS NEEDED.
- ALL DIMENSIONS, ANGLES, ELEVATIONS, ETC. ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR (BASED ON EXISTING FIELD CONDITIONS AND OTHER DRAWINGS) PRIOR TO SUBMITTAL OF BID, MATERIAL PURCHASE, FABRICATION, AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY ABE OF ANY DISCREPANCIES BEFORE PROCEEDING.
- CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ANY OTHER DRAWINGS AND SHALL NOTIFY ABE OF ANY CONFLICTS OR DISCREPANCIES BEFORE PROCEEDING.
- WHERE A SECTION, DETAIL, OR NOTE IS GIVEN FOR ONE CONDITION/LOCATION, IT SHALL APPLY TO ALL LIKE OR SIMILAR CONDITIONS/LOCATIONS, UNLESS NOTED OTHERWISE.
- MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION WERE NOT EVALUATED OR DESIGNED BY ABE AND ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. ABE HAS EVALUATED THE STABILITY OF THE STRUCTURE ONLY IN ITS FINAL FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION, AND THE CONTRACTOR SHALL DESIGN, PROVIDE, AND INSTALL ANY TEMPORARY SHORING, FORMWORK, BRACING OR OTHER COMPONENTS THAT MAY BE REQUIRED FOR STABILITY DURING INTERMEDIATE STAGES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROTECT THE EXISTING FACILITY AND COMPONENTS FROM DAMAGE DURING CONSTRUCTION.
- DRAWINGS ARE NOT TO SCALE. ANY SCALE NOTED IS PROVIDED FOR APPROXIMATE REFERENCE ONLY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2012 EDITION) WITH GEORGIA AMENDMENTS.
- ABE ASSUMES NO RESPONSIBILITY FOR JOB SITE SAFETY OR OSHA COMPLIANCE WHICH SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- IN THE EVENT OF A CONFLICT BETWEEN PORTIONS OF THE STRUCTURAL DRAWINGS/SPECIFICATIONS OR A CONFLICT BETWEEN THE STRUCTURAL DRAWINGS/SPECIFICATIONS AND THE REFERENCED CODES/SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. CONTRACTOR SHALL NOTIFY SER OF ANY CONFLICTS BEFORE PROCEEDING.
- STRUCTURAL MEMBERS (JOISTS, BEAMS, COLUMNS, STUDS, ETC.) AND REINFORCING STEEL (IN CONCRETE COLUMNS, JOISTS, BEAMS, WALLS, AND ELEVATED SLABS) SHALL NOT BE SPLICED UNLESS SHOWN HEREIN OR APPROVED, IN WRITING, BY THE SER.
- PROVIDE AS USED HEREIN SHALL MEAN PROVIDE AND INSTALL.
- CONSTRUCTION ADMINISTRATION AND SITE VISITS DURING CONSTRUCTION ARE NOT CURRENTLY INCLUDED IN ABE'S SCOPE OF WORK FOR THIS PROJECT.

SECTION B: FOUNDATIONS

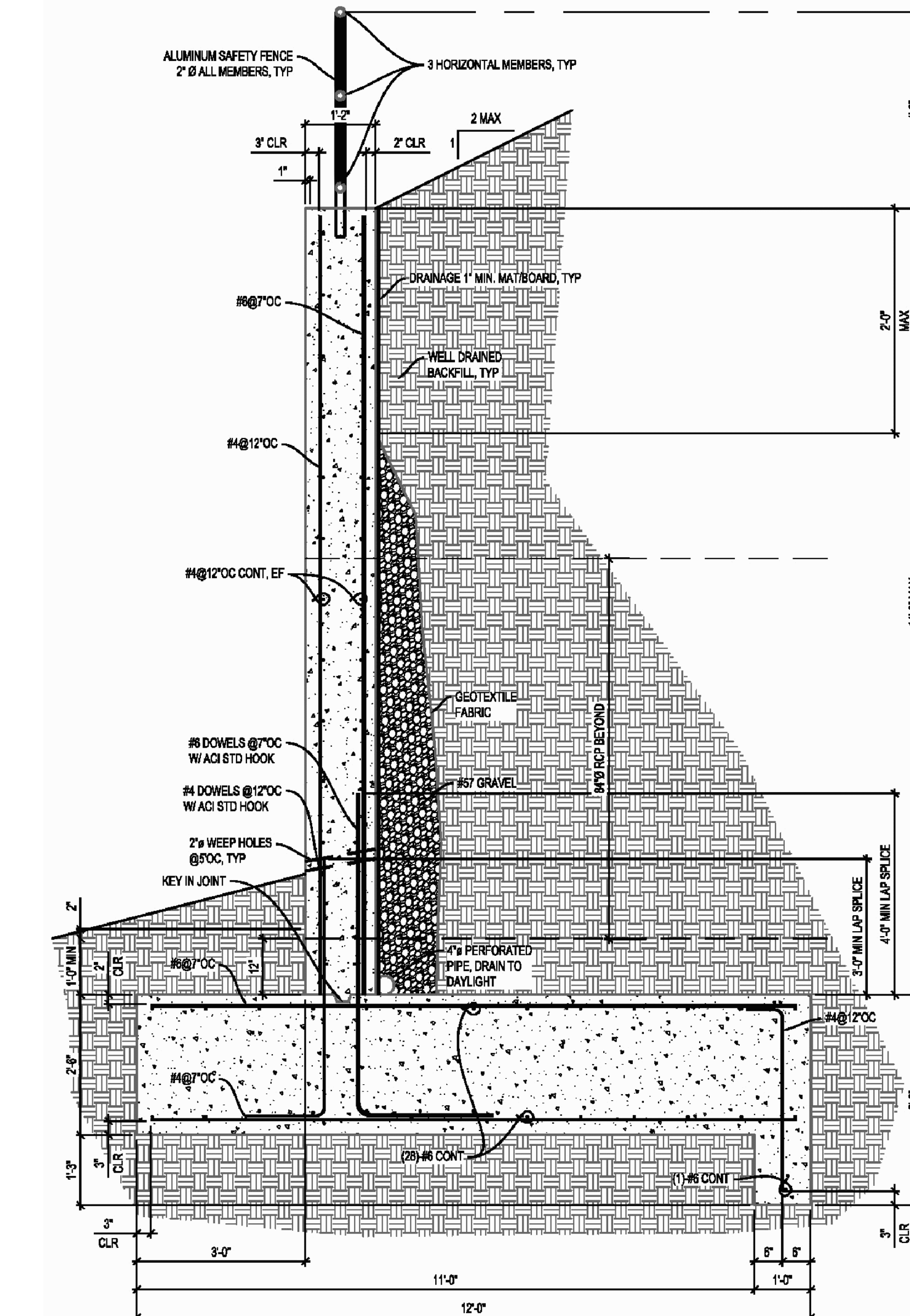
- A DESIGN NET ALLOWABLE BEARING PRESSURE OF 3000 PSF WAS USED. AN INDEPENDENT, QUALIFIED, PROFESSIONAL ENGINEER SHALL VERIFY THAT THE ABOVE-REFERENCED ALLOWABLE NET BEARING CAPACITY IS OBTAINED IN ALL FOOTING EXCAVATIONS BEFORE CONCRETE PLACEMENT. ANY NON-COMPLIANT AREAS SHALL BE CORRECTED PER THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER TO OBTAIN THE NET ALLOWABLE BEARING CAPACITY SPECIFIED ABOVE.
- BACKFILL PLACEMENT AND COMPACTION SHALL BE MONITORED, TESTED, AND APPROVED BY A GEOTECHNICAL ENGINEER. UNO, THE TOP 1' OF BACKFILL BENEATH SLABS ON-GRADE SHALL BE SCARIFIED, DRED, AND COMPACTED TO A MIN. OF 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. UNO, ALL BACKFILL BELOW FOOTINGS SHALL BE COMPACTED AS REQUIRED BY THE GEOTECHNICAL ENGINEER TO ACHIEVE THE ALLOWABLE BEARING PRESSURE LISTED ABOVE. UNO, OTHER BACKFILL SHALL BE COMPACTED TO A MIN. OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- CLEAN OUT ALL FOOTING EXCAVATIONS (OF LOOSE/SOFT SOIL, STANDING WATER, MUD, DEBRIS, ETC.) IMMEDIATELY BEFORE CONCRETE PLACEMENT.

SECTION C: CONCRETE CONSTRUCTION (INCLUDING REBAR AND SLABS-ON-GRADE)

- ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- WHERE EPOXY ANCHORAGE OF REINFORCING STEEL BARS IS SPECIFIED, UNO THE HILTI HIT-HY 200 ADHESIVE ANCHORING SYSTEM SHALL BE USED. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE MAXIMUM PERFORMANCE OF THE EPOXY ANCHORAGE SYSTEM.
- PROVIDE CLEAR CONCRETE COVER FOR ALL REINFORCING STEEL BARS PER ACI 318. UNO, PROVIDE THE FOLLOWING CLEAR CONCRETE COVER:
 - 3" FOR REBAR IN CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO THE EARTH
 - 1 1/2" FOR #5 AND SMALLER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER
 - 2" FOR #6 AND LARGER REBAR IN CONCRETE EXPOSED TO EARTH OR WEATHER
- 1/2" UNO
- ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 WITH F_y=60,000 PSI. UNO, REINFORCING STEEL SHALL BE SUPPORTED ON PLASTIC OR STEEL CHAIRS (W/ EPOXY-COATED LEGS WHERE CHAIRS ARE IN CONTACT WITH EARTH). PROVIDE SIZE AND SPACING OF CHAIRS AS REQUIRED TO ADEQUATELY SUPPORT REINFORCING STEEL PRIOR TO AND DURING CONCRETE PLACEMENT. (REBAR STAKES AND WOOD BLOCKS ARE NOT ALLOWED.)
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. UNO, CONTRACTOR SHALL SUBMIT MIX DESIGN AND ASSOCIATED DATA, PER ACI 318, TO ABE BEFORE CONSTRUCTION AND SHALL AWAIT REVIEW AND APPROVAL BEFORE PROCEEDING.
- WATER, IN EXCESS OF THAT SHOWN IN THE MIX DESIGN, SHALL NOT BE ADDED TO CONCRETE AT THE PROJECT SITE OR DURING PLACEMENT UNLESS APPROVED BY THE SER.
- ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS. (REFER TO ACI 309 - GUIDE FOR CONSOLIDATION OF CONCRETE.)
- WET CURE UNFORMED CONCRETE FOR 7 DAYS, MINIMUM, AFTER PLACEMENT UNLESS AN ALTERNATIVE CURING METHOD IS SUBMITTED BY THE CONTRACTOR AND APPROVED, IN WRITING, BY THE AOR OR SER.
- ALL CONCRETE CONSTRUCTION, INCLUDING REINFORCING STEEL, SHALL BE OBSERVED AND TESTED BY A QUALIFIED, INDEPENDENT PARTY. CONCRETE TEMPERATURES, SLUMPS, AND AIR CONTENTS SHALL BE TESTED, RECORDED, AND VERIFIED TO BE IN COMPLIANCE WITH THE APPROVED MIX DESIGN. TEST CYLINDERS SHALL BE CAST (IN SETS OF FOUR) AND TESTED TO VERIFY COMPRESSIVE STRENGTH. THE ABOVE REFERENCED TESTS AND TEST CYLINDERS SHALL BE PERFORMED AT THE RATE OF ONE SET OF TESTS/CYLINDERS FOR EACH 50 CUBIC YARDS (OR LESS) OF EACH MIX DESIGN OF CONCRETE PLACED IN A DAY.



RETAINING WALL E-1 AT 66" RCP DETAIL
NTS



RETAINING WALL F-1 AT 84" RCP DETAIL
NTS

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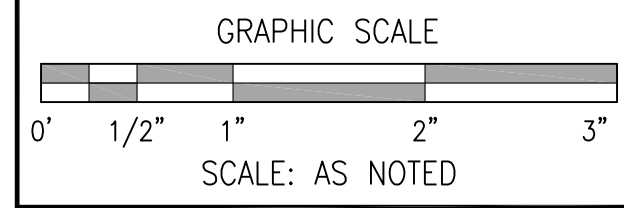
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 GDOT DISTRICT# 1

RETAINING WALL DETAILS

2-12-18

REVISIONS	DATE

DATE: 2-12-18
 PROJECT #: 17-021-48



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56
61

DOVE CREEK SCHOOL R/W IMPROVEMENTS

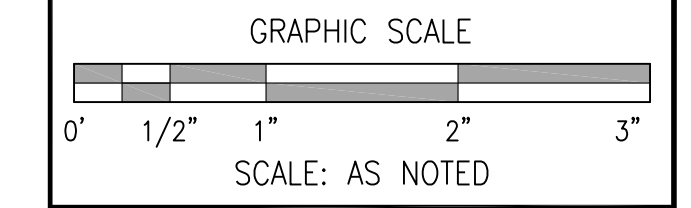
7921 HOG MOUNTAIN RD.
 STATE ROUTE 53
 STATHAM, GA 30666
 OCONEE COUNTY, GA
 224th GMD
 GDOT DISTRICT# 1

TRANSITION COLLAR DETAILS

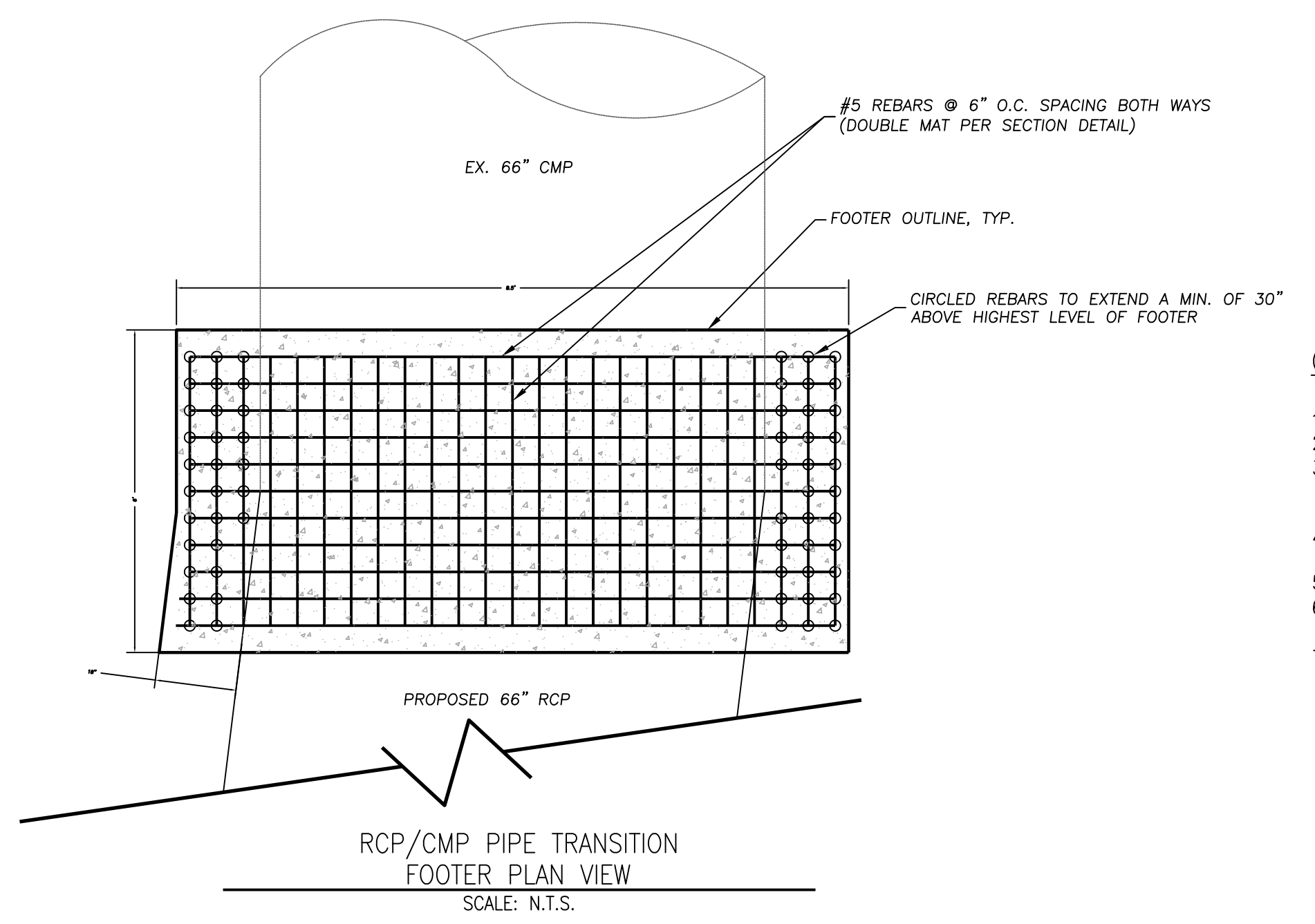
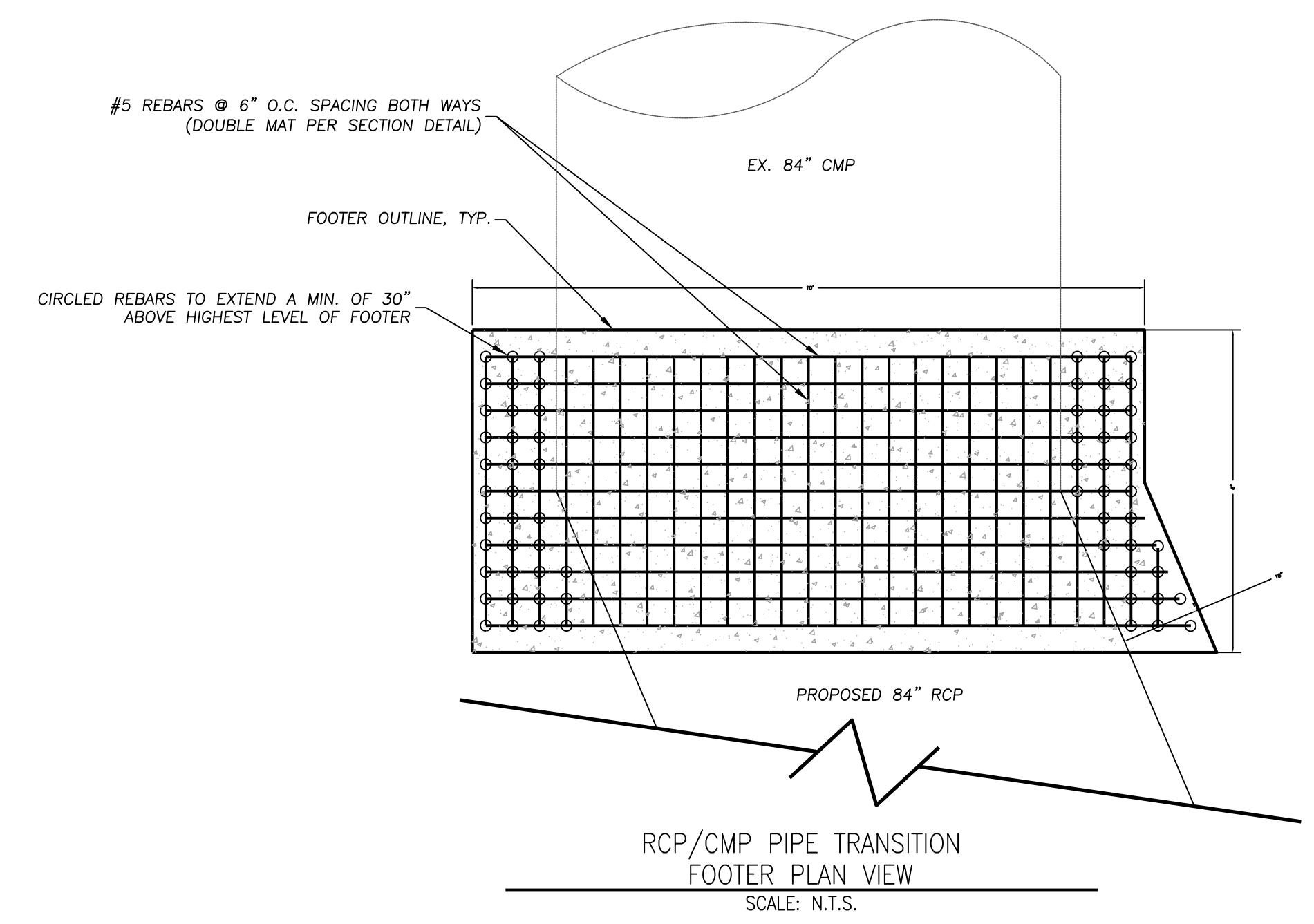


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- GENERAL NOTES:**
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI @ 28 DAYS.
 2. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 615, GRADE 60.
 3. PROVIDE EXPANSION JOINTS AS SHOWN ON DETAILS/PLANS. INSTALL JOINT WITH PREMOLDED JOINT FILLER RECESSED 1/2" BELOW FINISH GRADE & APPLY NON-SHRINKING SEALANT OVER THE JOINT ON THE EXPOSED SIDE.
 4. FINE BROOM FINISH SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES TO PROMOTE NONSKID SURFACE.
 5. ASSUMED BEARING CAPACITY OF SOIL= 2,500 PSF
 6. ALL REINFORCING STEEL SHALL HAVE A MIN. OF 2-1/2" CLEARANCE EXCEPT AT BOTTOM OF FOOTING CLEARANCE SHALL BE 3".
 7. ALL EXPOSED CORNERS OF WALL SHALL BE ROUNDED WITH MIN. 1/2" CHAMFER.

