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LA PLATA COUNTY, CO

PROJECT LOCATION



VILLAGE CAMP
DURANGO
PRELIMINARY CONSTRUCTION PLANS

SEH PROJECT NO. 168892

LPC PROJECT NO. 2023-036



Know what's below.
Call before you dig.

NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR SHALL CALL THE COLORADO STATE ONE CALL SYSTEM AT 811 BEFORE COMMENCING EXCAVATION.

EXISTING	
	RIGHT OF WAY
	PERMANENT EASEMENT
	PROPERTY LINE
	SANITARY SEWER AND MANHOLE
	WATER MAIN, HYDRANT, VALVE AND MANHOLE
	STORM PIPE
	GAS MAIN
	BURIED PHONE CABLE, AND PEDESTAL
	BURIED ELECTRIC CABLE, PEDESTAL, MANHOLE, TRANSFORMER AND METER
	BURIED FIBER OPTIC LINE
	OVERHEAD ELECTRIC LINE AND OVERHEAD POWER POLE
	SIGN
	DECIDUOUS AND CONIFEROUS TREE
	WETLAND
	FENCE (UNIDENTIFIED)
	PLATE BEAM GUARDRAIL POST / BOLLARD
PROPOSED	
	STREET CENTERLINE
	RIGHT-OF-WAY
	PERMANENT EASEMENT
	PROPERTY LINE
	8-IN SANITARY SEWER AND MANHOLE
	SANITARY SERVICE AND CLEANOUT
	6-IN WATER MAIN, TEE, AND HYDRANT
	2-IN WATER MAIN, TEE, AND HYDRANT
	WATER VALVE MANHOLE, REDUCER, BEND AND CROSS
	WATER SERVICE AND CURB STOP BOX
	12-IN CULVERT
	DITCH / SWALE
	SILT FENCE
	TEMPORARY DIVERSION BERM

APPROVED:

COUNTY ENGINEER

DATE



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

PROJECT NO.

168892

Signature

TRAVIS MOONEY

Date: 01/17/2025

Lic. No. 0051259

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General Notes:

1. All materials and workmanship shall be in accordance with Hermosa Sanitation District (HSD) & Animas Water Company (AWC) Requirements, La Plata County LUDC Requirements, CDOT Standards & Specifications, as well as Project Drawings and Specifications. When requirements in the construction specifications or design standards conflict the more stringent requirement shall apply.
2. The contractor is responsible for obtaining all required permits prior to the commencement of any work on the project.
3. The contractor shall be responsible for notifying the developer of any problems in conforming to the approved plans for any element of the proposed improvements prior to its construction.
4. The developer shall be responsible during construction activities to resolve construction problems due to changed conditions or design errors encountered by the contractor during the progress of any portion of the proposed work. If, in the opinion of the construction observer, the modifications proposed by the developer to the approved plans involve significant changes to the character of the work or to future contiguous public or private improvements, the developer shall be responsible for submitting revised plans to the appropriate agencies for approval prior to any further construction related to that portion of the work. Any improvements constructed not in accordance with the approved plans or the approved revised plans, shall be removed and the improvements shall be reconstructed according to the approved plans.
5. The contractor shall contact the appropriate agencies for location of underground gas, electric, and telephone utilities at least 48 hours prior to commencement of construction.
6. The contractor shall be responsible for providing a copy of "RECORD DRAWING" plans to the appropriate agencies within 45 days of final acceptance of work.
7. The contractor shall notify the Construction Observer at least 24 hours prior to desired inspection. All inspections required by AWC & HSD shall be the responsibility of the contractor to coordinate.
8. The contractor shall reset all Survey Monuments disturbed during construction within 60 days of project completion.
9. The contractor shall be solely and completely responsible for conditions at and adjacent to the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours.
10. The duty of the Construction Observer, County or District Representative to conduct construction review of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.
11. Field conditions may exist that require changes to the drawings. If such conditions are encountered, standard engineering practices shall be followed.
12. A 13'6" vertical clearance shall be maintained at all fire apparatus access roads.
13. Survey Data used herein are provided by Red Mountain Land Surveying.

Control Statement:
Horizontal Control: Modified State Plane Coordinate System, Colorado Zone South with a Ground Scale Factor of 1.0003358386 about Point #100 CPT1 Being a set 9" Vertical Control:NAVD88, NGS Benchmark PID HL0370
Units: US Survey Feet

14. Additional topographic survey was performed by GeoSpacial Applications, LLC. This survey did not control boundary for the site, and a plat amendment is underway that will be project boundary control.

Street Construction Notes:

1. With notification of the respective owner, contractor shall adjust rims of all cleanouts, manholes, valve covers and survey monuments to finish grade prior to final lift paving.
2. The contractor shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for public safety in accordance with the current Manual on Uniform Traffic Control Devices.
3. The contractor shall provide ingress and egress to private property adjacent to the work throughout the period of construction and prior to beginning work shall obtain written agreement from the affected property owners impacted by this access.
4. Prior to final placement of surface pavement, all underground utility mains shall be installed and service connections stubbed out beyond lot line when allowed by the utility. Service from public utilities and from sanitary sewers shall be made available for each lot in such a manner that will not be necessary to disturb the street pavement, curb, gutter, and sidewalk when connections are made.
5. No portion of the street may be final paved until all street lighting improvements designed to serve the street and/or development have been completed.
6. All roadways and accessways to be used for emergency access, shall be constructed to support vehicle loading of 60,000 pounds required by the Durango Fire and Rescue Authority.
7. All road subgrades shall be scarified for top 8", moisture conditioned, and recompacted to 95% modified Proctor Density, per ASTM 15-57.
8. Site concrete is to be CDOT Class D or approved equal. Pedestrian areas shall be 4" thick concrete on 6" Class 6 ABC compacted to 98% MDD. Vehicular traffic areas shall be 6" thick concrete on 12" Class 6 ABC compacted to 98% MDD. See Geotech report.

Grading and Drainage Notes:

1. A water truck, if called for by the construction observer, will be provided to keep wind erosion in check.
2. Any settlement or soil accumulations beyond the property limits due to grading or erosion shall be repaired immediately by the contractor.
3. Any construction debris or mud tracking in the public right-of-way shall be removed immediately by the contractor. The contractor shall immediately fix any excavations or excessive pavement failures caused by the development and shall properly barricade the site until construction is complete. Failure by the contractor to correct any of the above within 48 hours of written notice by the inspecting agency shall cause the inspecting agency to issue a stop work order and/or do the work and make a claim against the letter of credit for any cost incurred by the agency.
4. Areas being disturbed by the grading shall be reseeded with native vegetation or as approved on the development plan.
5. A Storm Water Management plan and NPDES permit for discharge associated with Construction Activities shall be obtained by the contractor for disturbed areas greater than one-half acre. The Storm Water Management Plan shall be implemented until the Storm Water Discharge permit has been inactivated.
6. All culverts/storm pipes shall be smooth lined corrugated plastic pipe with flared end sections.

Utility Notes:

1. The contractor shall have in his possession at all times one (1) signed copy of plans and specifications which have been approved by the: county, AWC, and HSD.
2. In profile view:
-Pipe length labels are 3d lengths from inside edge of manhole to inside edge of manhole
-Pipe elevation invert labels represent elevation invert of pipe projected to center of manhole.
3. Pipeline stationing is along the center line of the new pipe.
4. All pipe bedding shall be Class "B" bedding with at least 12 inches of bedding above the pipe and at least 4 inches of bedding below the bells in accordance with chapter 70 section B of the LUDC.
5. All pipe bedding material shall be sand or gravel meeting the standards set in Section 6 of the Construction Specifications.
6. Trench width at the top of the bell shall not exceed 16 inches plus pipe width.
7. The contractor shall provide trench backfill material and compaction of backfill material. If in the opinion of the engineer the excavated material is not satisfactory for use as backfill, the contractor shall provide Class 6 Aggregate Base Course (ABC) material for trench backfill. The Class 6 ABC shall meet the requirements of Section 304 and 703 of the CDOT Standard Specifications for road and bridge construction.
8. For utility trenches in existing asphalt roadways, the contractor shall backfill the trench up to the existing roadway surface, providing a smooth driving surface. In this manner, the contractor can asphalt pave large sections of trench at one time while still providing a usable roadway.
9. The contractor shall inform the owner's representative 24 hours in advance when trench will be ready for compaction tests. The contractor shall obtain a geotechnical testing laboratory to perform all required tests.
10. Where construction occurs in or across asphalt or concrete pavement, saw cut the pavement for a clean straight edge 6" outside the trench limits to allow clean removal and a good surface for proper patching.
11. All pavement saw cuts shall be 90° to one another.
12. The contractor shall be responsible for protection of all existing asphalt from construction equipment. Damaged asphalt shall be replaced by the contractor at his expense.
13. Immediately prior to asphalt patchback, the contractor shall remove the top 5 inches of Class 6 ABC on the trench and recondition the backfill. Compaction tests shall be taken by the contractor's geotechnical testing laboratory and submitted to the engineer. All damaged edges of pavement or soft shoulders shall be saw cut, removed, and the base compacted.
14. The contractor shall repair or replace any public or private improvements in kind including but not limited to: residential services, water lines, sewer lines, storm drains, etc., that was removed or damaged during construction.
15. The contractor shall repair or replace existing landscaping, in kind, that was removed or damaged during construction. The contractor shall guarantee said landscaping for one (1) year after the final acceptance of the construction.

Utility Notes (cont.):

16. Contractor shall relocate street signs temporarily during construction, then replace as required, including t-lock base, metal post, mounting hardware, etc.
 17. Contractor shall contact the appropriate agencies for location of existing underground water, sewer, gas, and electric prior to the commencement of construction. Existing utility locations shown on construction drawings are approximate only, and all existing lines may not be shown.
 18. All gravity sewer mains shall be SDR-35 PVC pipe with push-on single gasket type joints. All sewer mains and services shall be installed in accordance with HSD Constructions Specifications.
 19. All manholes shall be 4-foot ID Precast Barrels and Cones, unless otherwise noted (6-foot ID and flat top lids where indicated). Bases shall be precast or cast-in-place, 3000 psi, 5-1/2 sack, concrete or greater. All new manhole bases shall be placed on a minium of 12 inches of 3/4" to 1-1/2" crushed rock. Manholes must be seal coated on the exterior. Locking watertight lids are required.
 20. All sanitary sewer manhole ring and covers shall be installed with a maximum of 6" of concrete adjustment riser rings.
 21. All manhole/valve ring and covers in pavement shall be installed with concrete collars.
 22. The existing sanitary sewer lines shall remain in service during the new sewer line construction.
 23. Sewer services shall be saddle taps with a bead of silicone.
 24. The sewer end cap shall be glued with a rebar & pvc marker.
 25. Sewer system shall be air tested and lamped.
 26. All water mains shall be C-900 PVC, DR18 & installed per AWC Standards & Specifications.
 27. All water line fittings shall be Ductile Iron, cement lined, with mechanical joints (AWWA C110) unless otherwise specified.
 28. The sewer main shall have marking tape at 1-ft above top of pipe.
 29. The water system shall be pressure tested per AWWA guidelines.
 30. The proposed water line shall have Bac-T sampling and a de-chlorinated water flush prior to usage.
 31. Fire Hydrants shall be installed with the 'bury line' at the finished grade.
 32. 6-inch waterline is unmetered, private fire infrastructure. Line is to be installed in shared trench with metered, 2-inch domestic service line.
 33. The subsurface utility quality information in this plan is Level D. This utility quality level was determined according to the guidelines of CI/ASCE 38-2 entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."
- The contractor shall call the Colorado State One Call System at 811 before commencing excavation.

SEH Project	168892	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date
Drawn By	SC/CM						
Designed By	TM						
Checked By	SW						

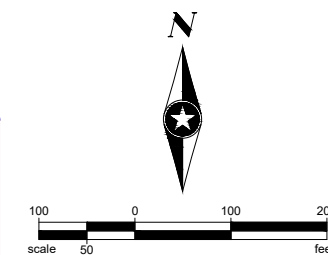


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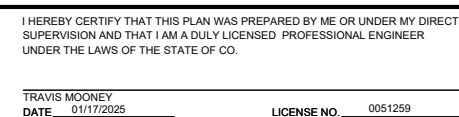
TRAVIS MOONEY
DATE 01/17/2025
LICENSE NO. 0051259

VILLAGE CAMP DURANGO
DURANGO, COLORADO

CONSTRUCTION NOTES

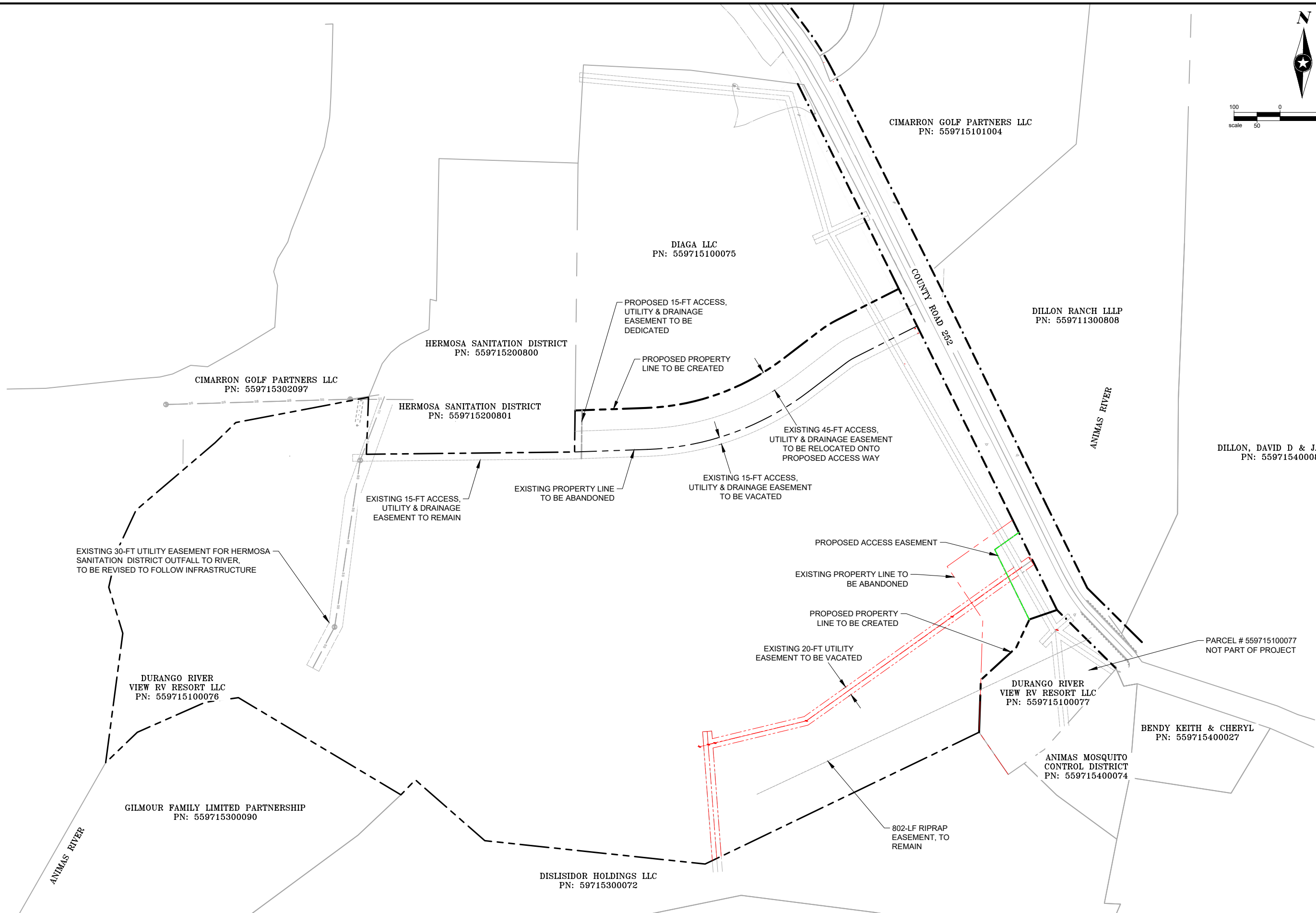
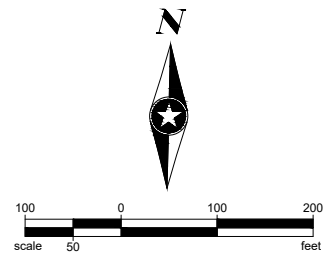


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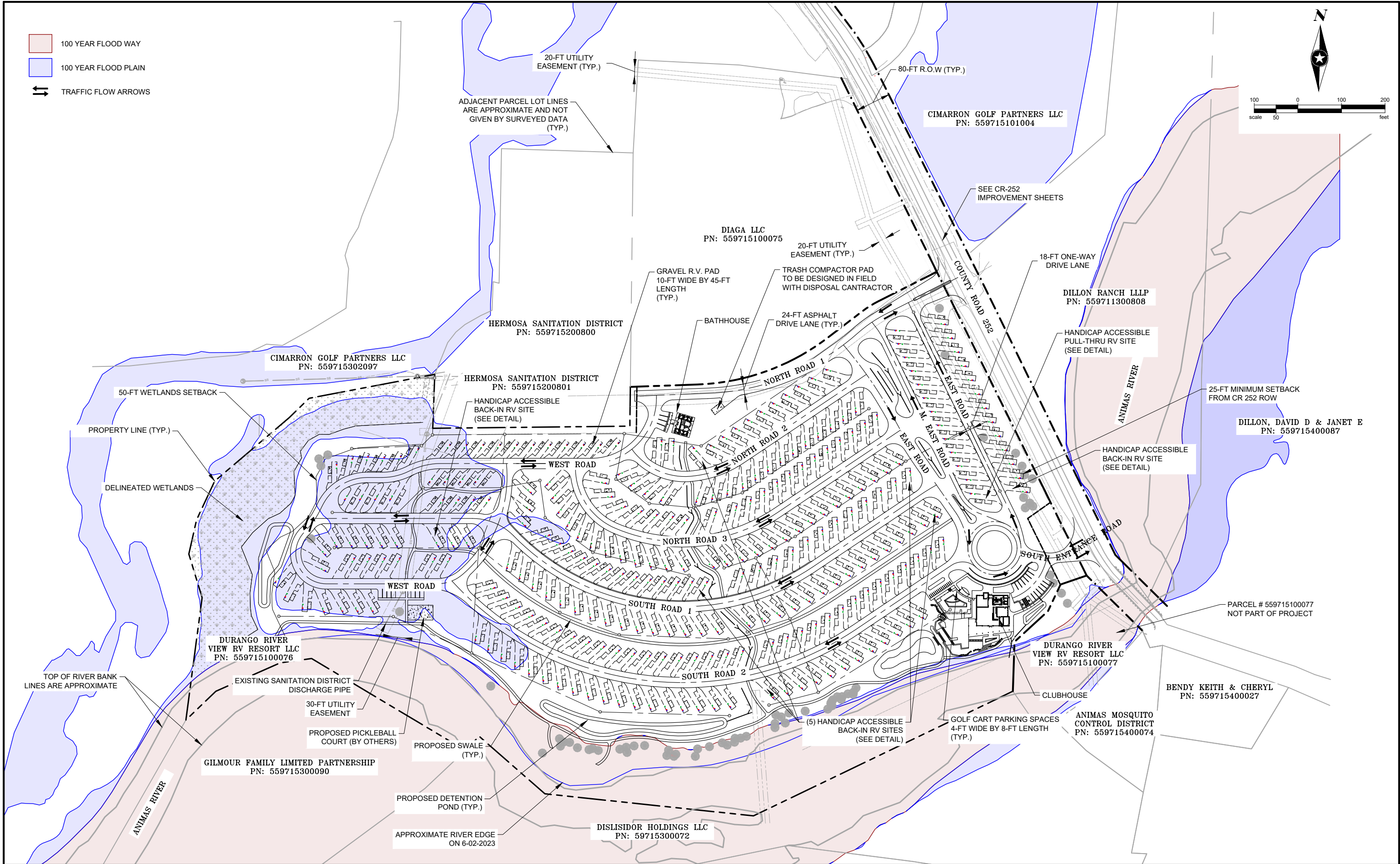
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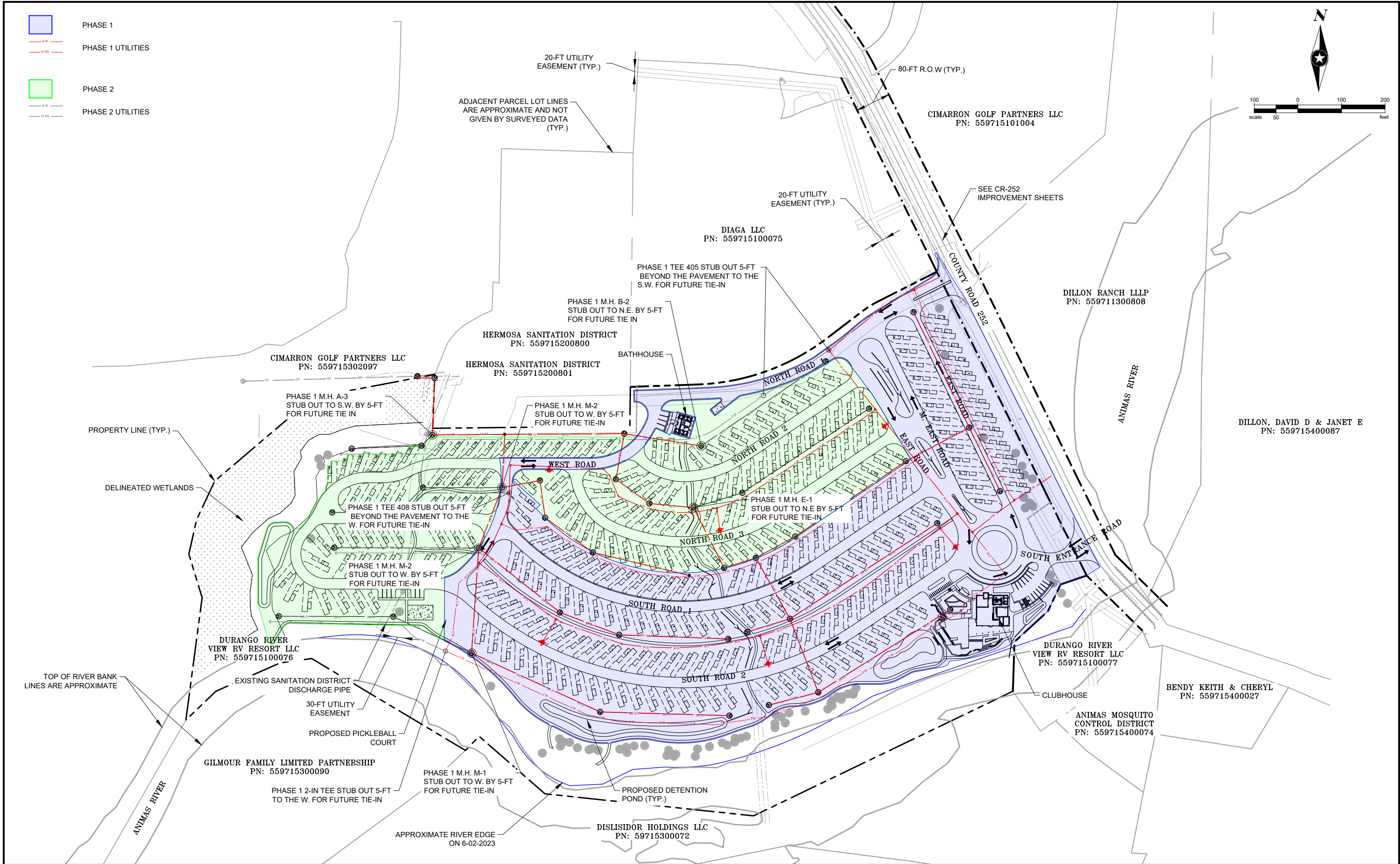
VILLAGE CAMP DURANGO
DURANGO, COLORADO

PROPERTY AND EASEMENT PLAN

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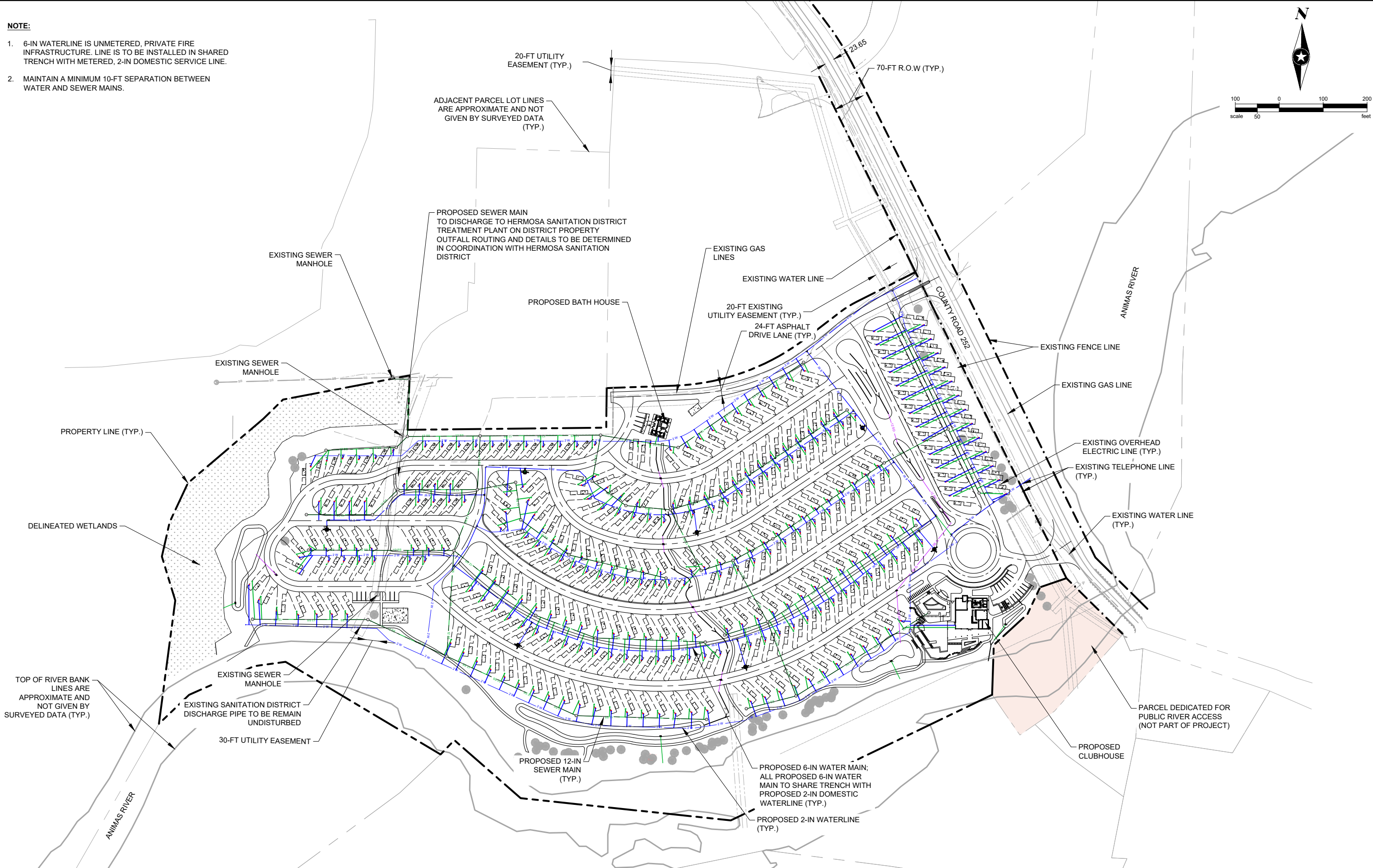
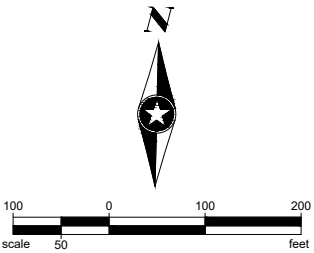


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NOTE:

- 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.
- MAINTAIN A MINIMUM 10-FT SEPARATION BETWEEN WATER AND SEWER MAINS.



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VILLAGE CAMP DURANGO
DURANGO, COLORADO

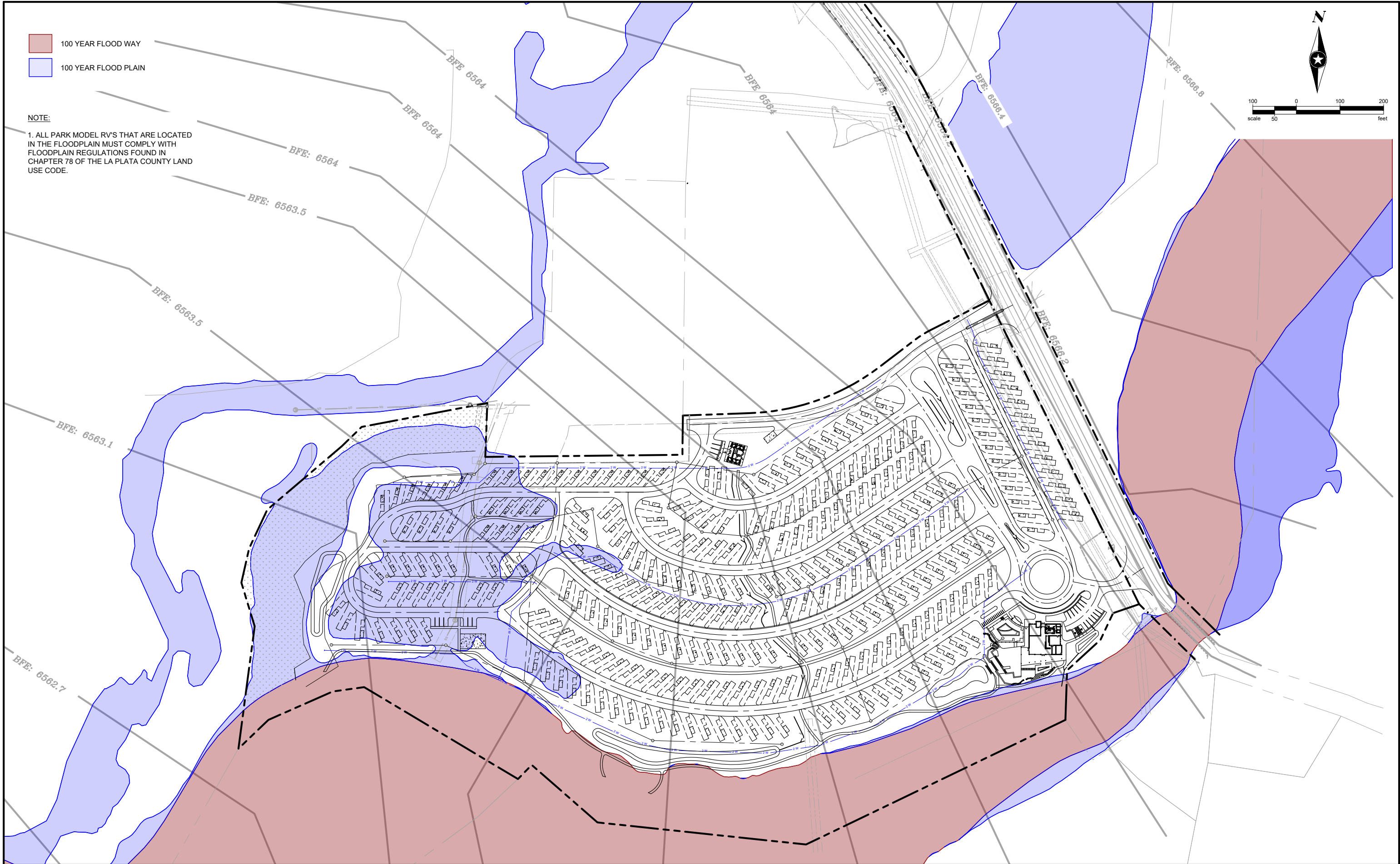
UTILITY PLAN

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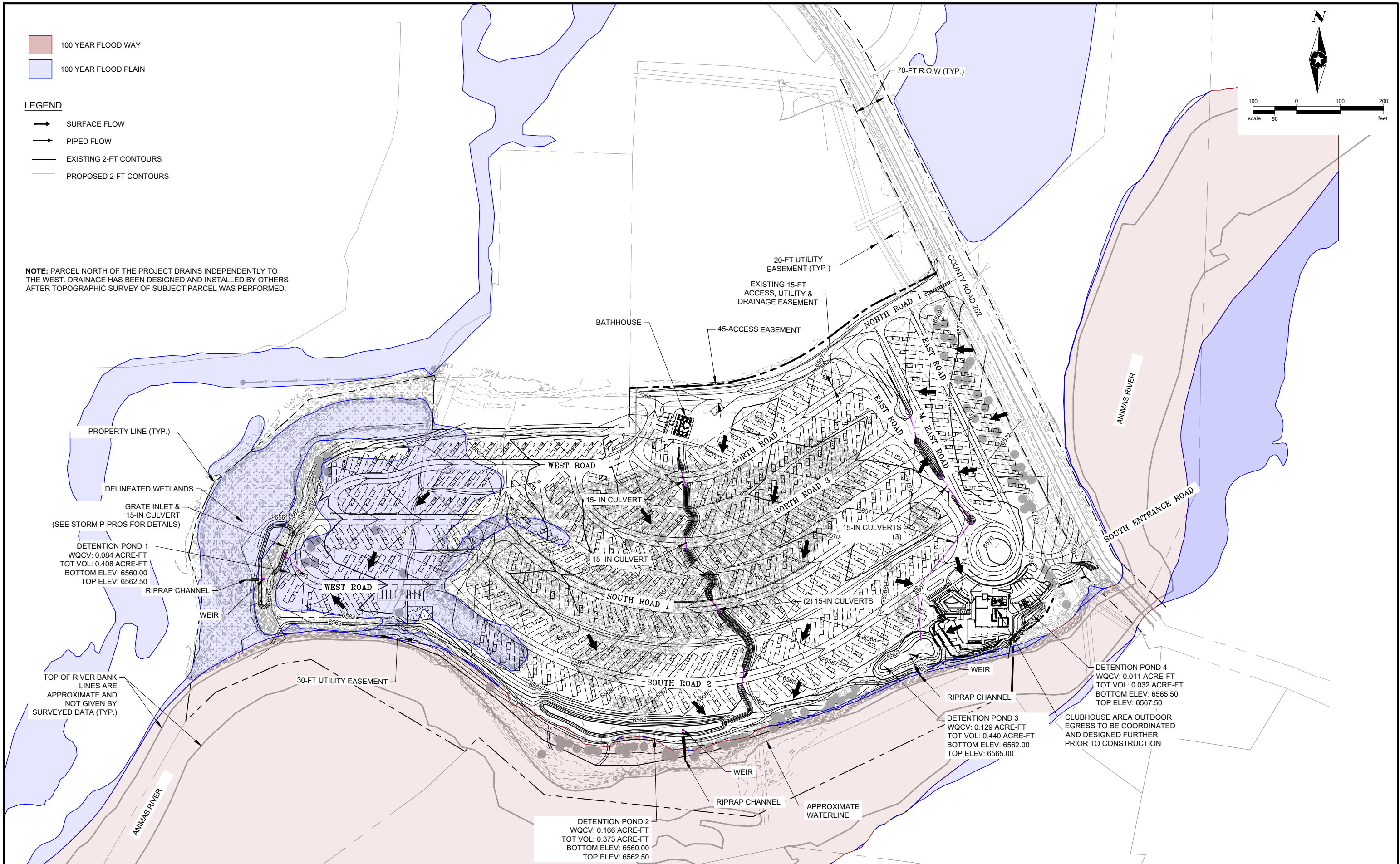
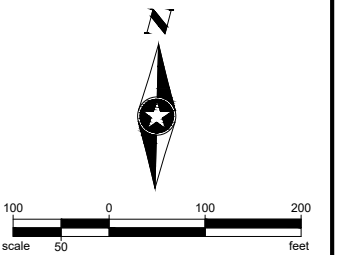
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- 100 YEAR FLOOD WAY
- 100 YEAR FLOOD PLAIN

LEGEND

- SURFACE FLOW
- PIPED FLOW
- EXISTING 2-FT CONTOURS
- PROPOSED 2-FT CONTOURS

NOTE: PARCEL NORTH OF THE PROJECT DRAINS INDEPENDENTLY TO THE WEST. DRAINAGE HAS BEEN DESIGNED AND INSTALLED BY OTHERS AFTER TOPOGRAPHIC SURVEY OF SUBJECT PARCEL WAS PERFORMED.



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VILLAGE CAMP DURANGO
DURANGO, COLORADO

GRADING AND DRAINAGE PLAN

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- 100 YEAR FLOOD WAY
- 100 YEAR FLOOD PLAIN

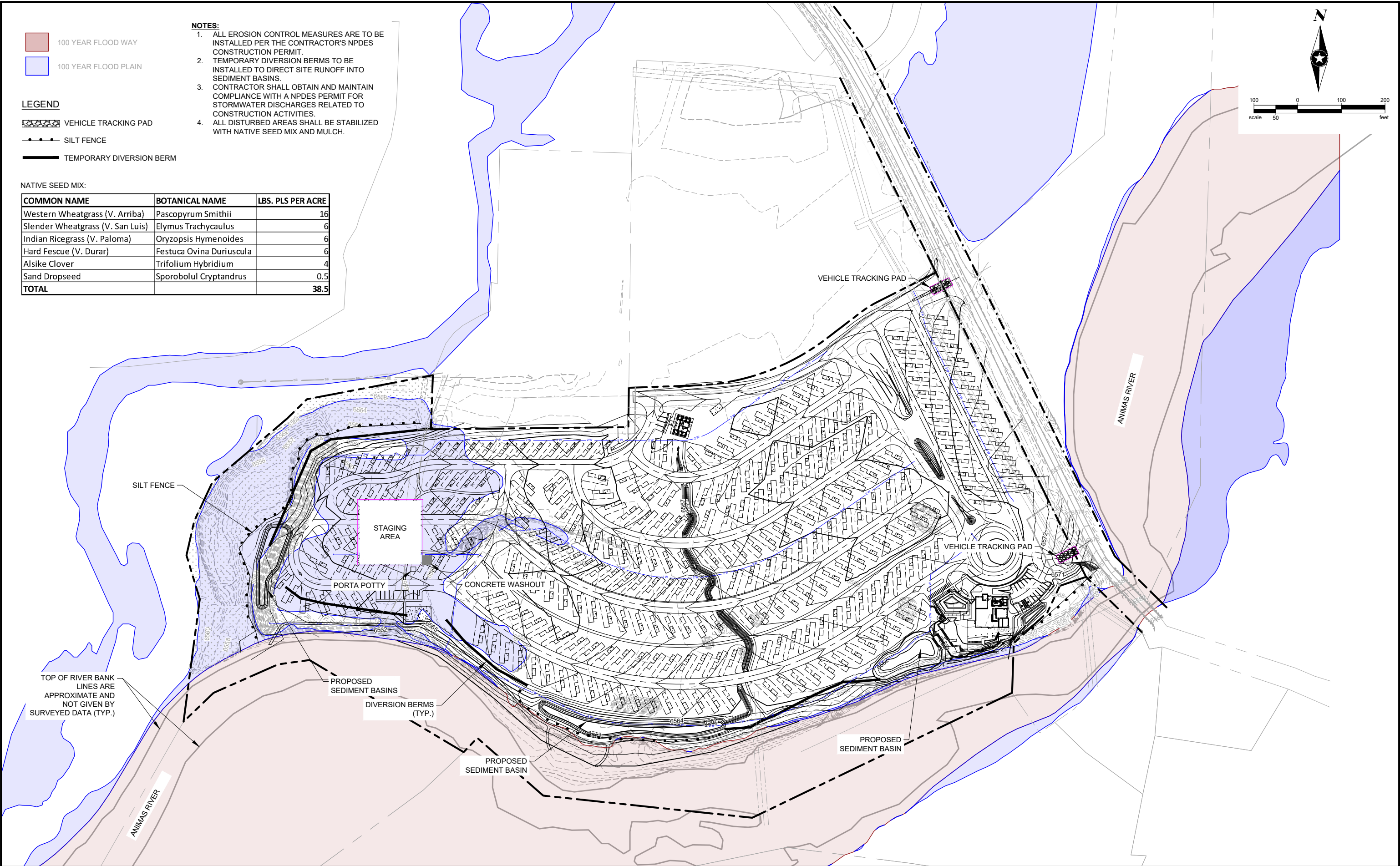
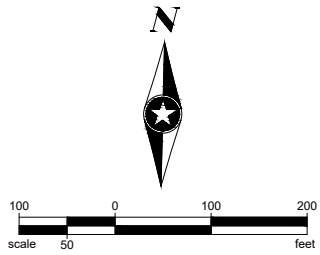
LEGEND

- VEHICLE TRACKING PAD
- SILT FENCE
- TEMPORARY DIVERSION BERM

NATIVE SEED MIX:

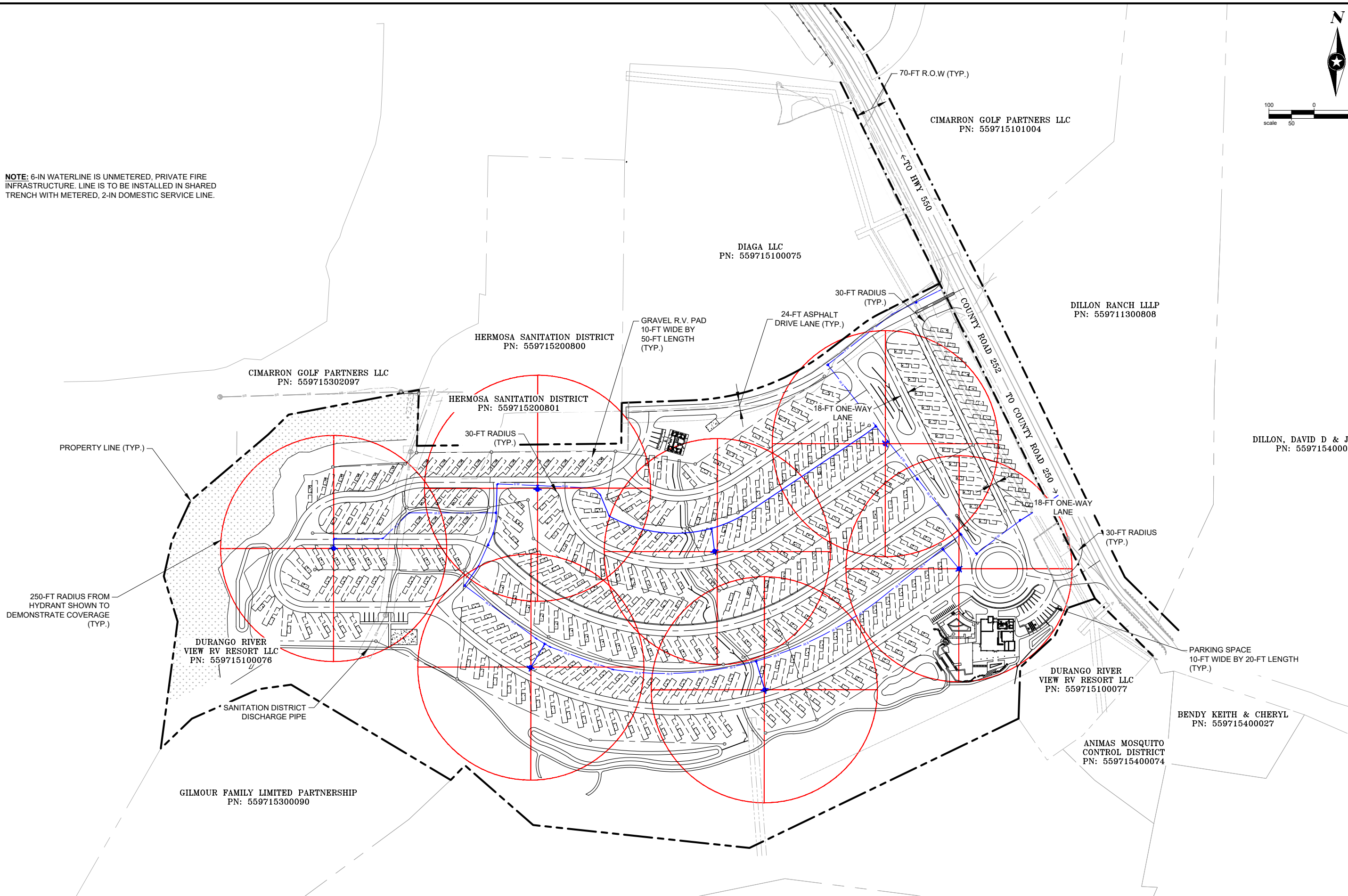
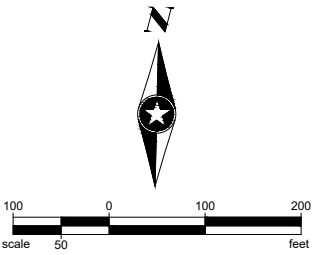
COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
Western Wheatgrass (V. Arriba)	Pascopyrum Smithii	16
Slender Wheatgrass (V. San Luis)	Elymus Trachycaulus	6
Indian Ricegrass (V. Paloma)	Oryzopsis Hymenoides	6
Hard Fescue (V. Durar)	Festuca Ovina Duriuscula	6
Alsike Clover	Trifolium Hybridum	4
Sand Dropseed	Sporobolul Cryptandrus	0.5
TOTAL		38.5

- NOTES:
- ALL EROSION CONTROL MEASURES ARE TO BE INSTALLED PER THE CONTRACTOR'S NPDES CONSTRUCTION PERMIT.
 - TEMPORARY DIVERSION BERMS TO BE INSTALLED TO DIRECT SITE RUNOFF INTO SEDIMENT BASINS.
 - CONTRACTOR SHALL OBTAIN AND MAINTAIN COMPLIANCE WITH A NPDES PERMIT FOR STORMWATER DISCHARGES RELATED TO CONSTRUCTION ACTIVITIES.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITH NATIVE SEED MIX AND MULCH.



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NOTE: 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.



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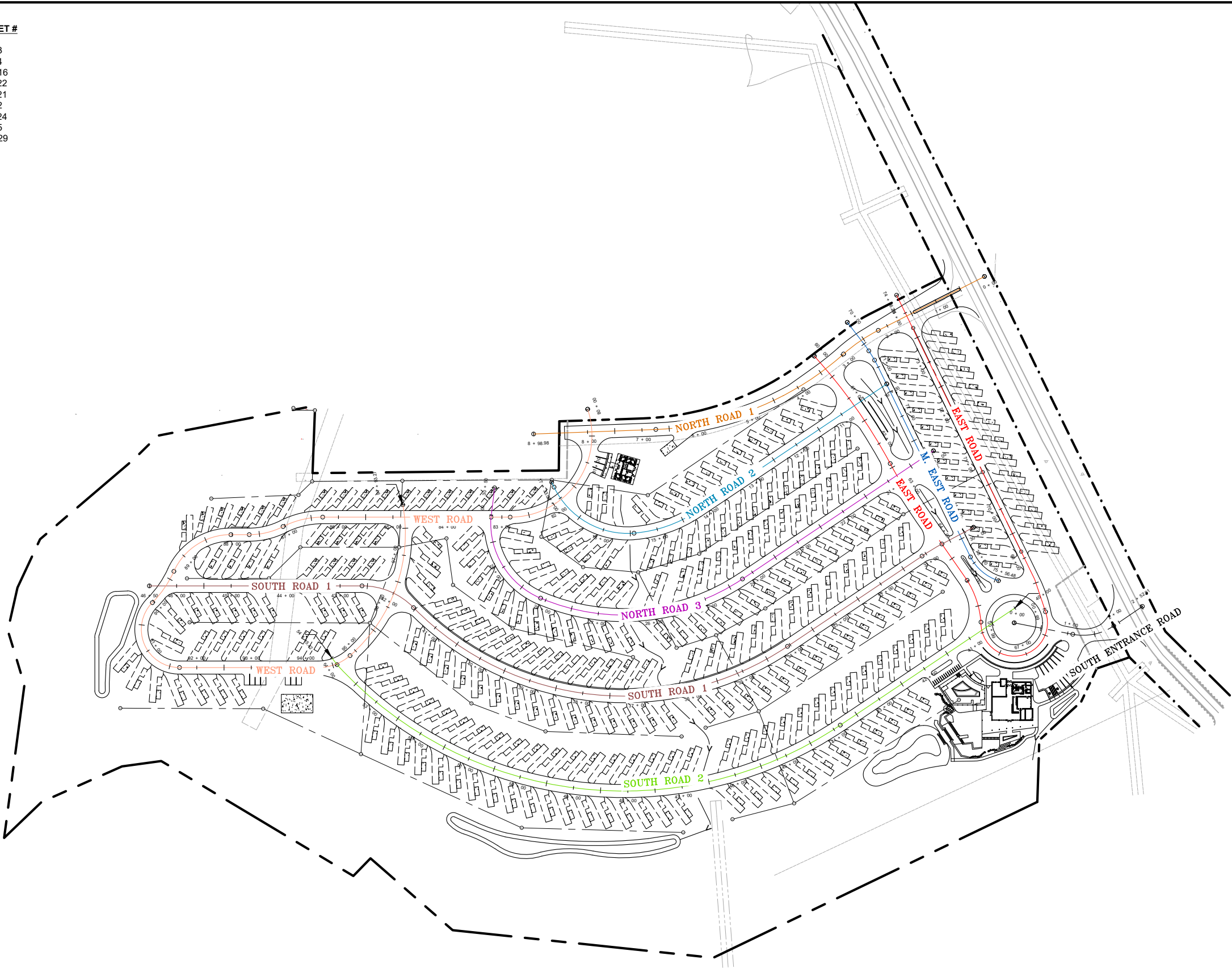
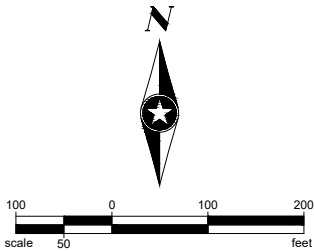
TRAVIS MOONEY
DATE 01/17/2025
LICENSE NO. 0051259

VILLAGE CAMP DURANGO
DURANGO, COLORADO

FIRE HYDRANT EXHIBIT

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ALIGNMENT	SHEET #
NORTH ROAD 1	13
NORTH ROAD 2	14
NORTH ROAD 3	15-16
SOUTH ROAD 1	19-22
SOUTH ROAD 2	20-21
SOUTH ENTRANCE ROAD	22
EAST ROAD	23-24
M. EAST ROAD	25
WEST ROAD	26-29



SEH Project 168892
Drawn By SC/CM
Designed By TM
Checked By SW

Rev.#

Revision Issue Description

Date

Rev.#

Revision Issue Description

Date



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

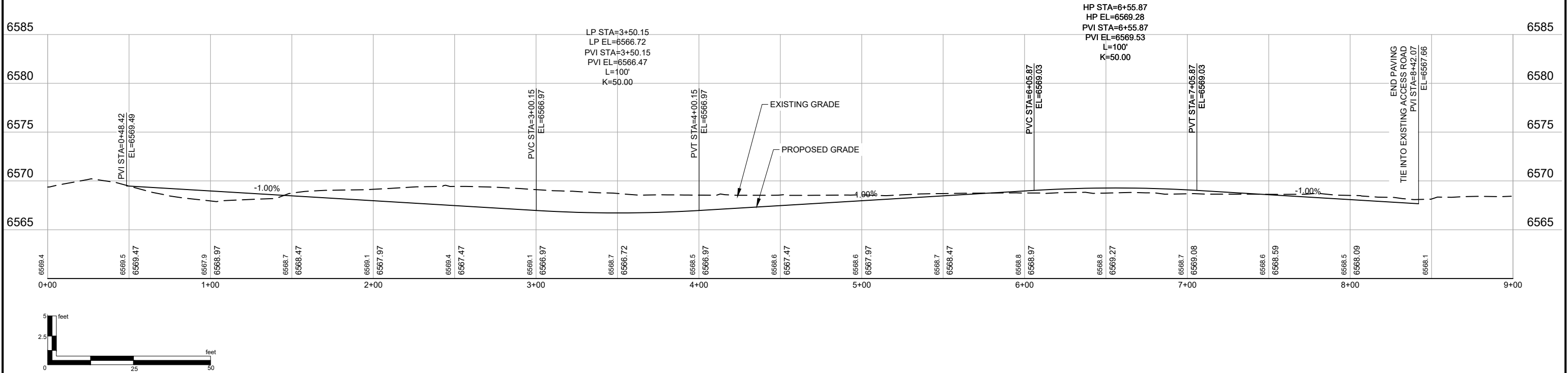
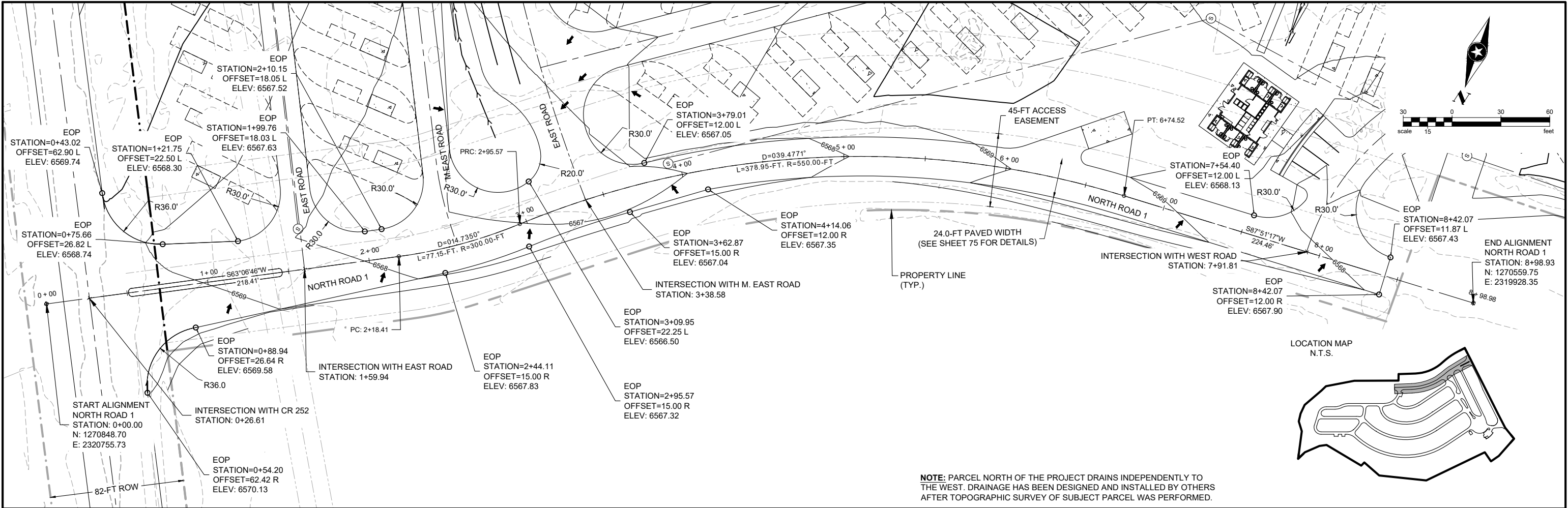
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DATE 01/17/2025

LICENSE NO. 0051259

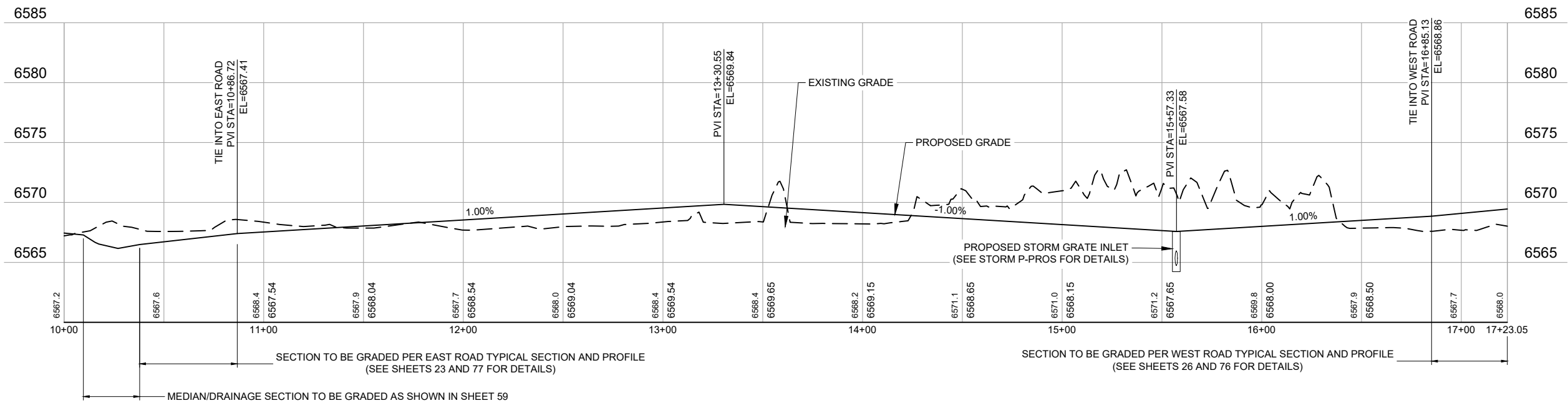
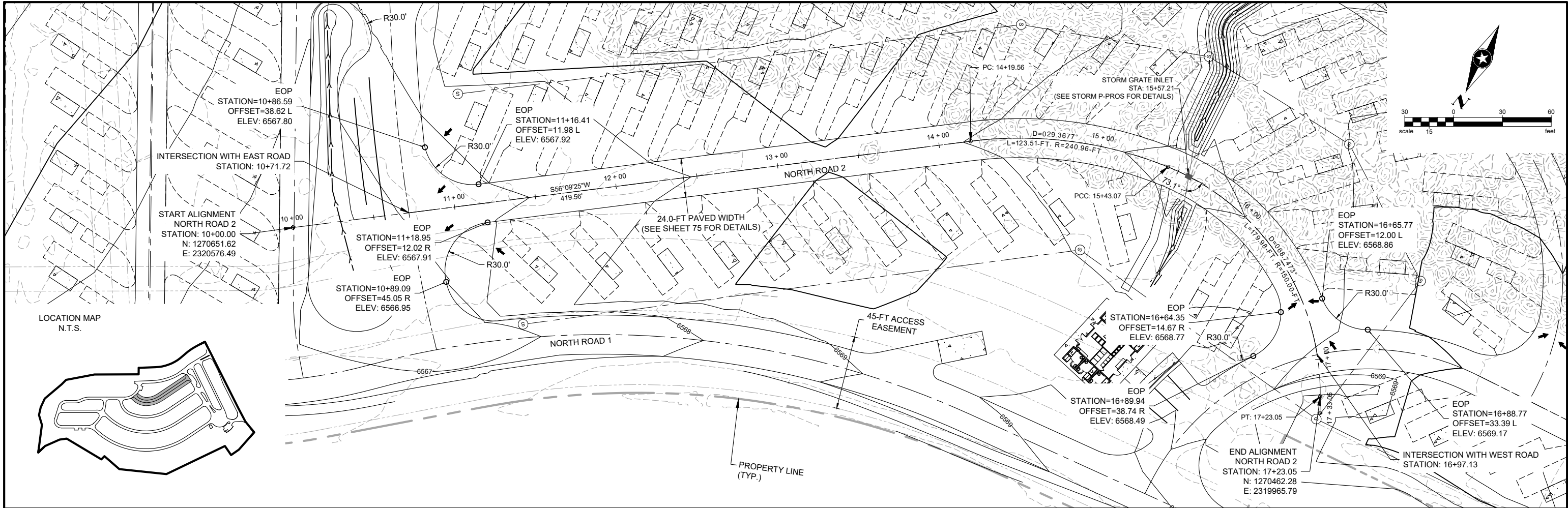
VILLAGE CAMP DURANGO
DURANGO, COLORADO

ROAD KEY

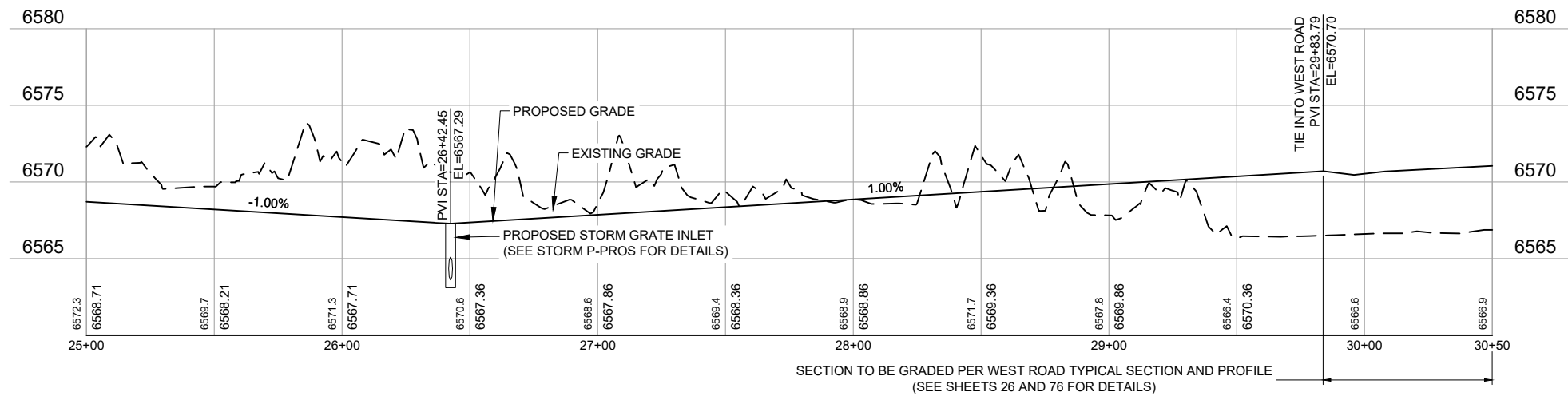
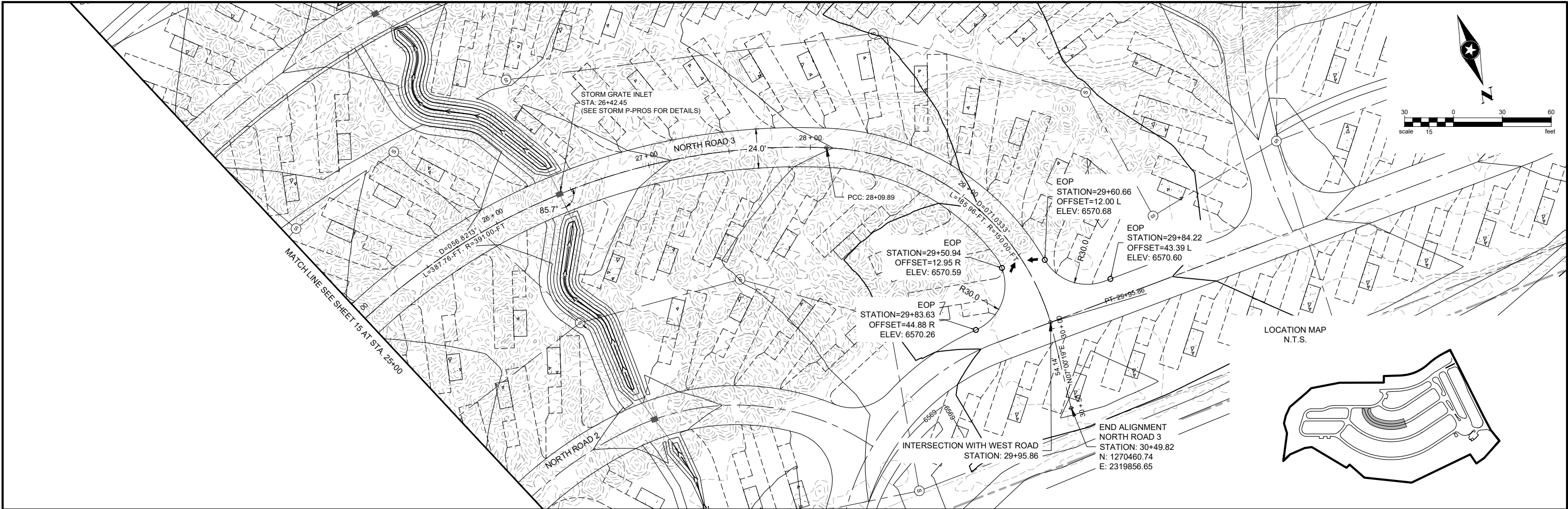
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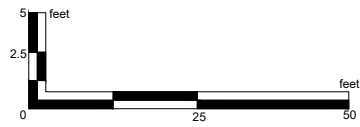
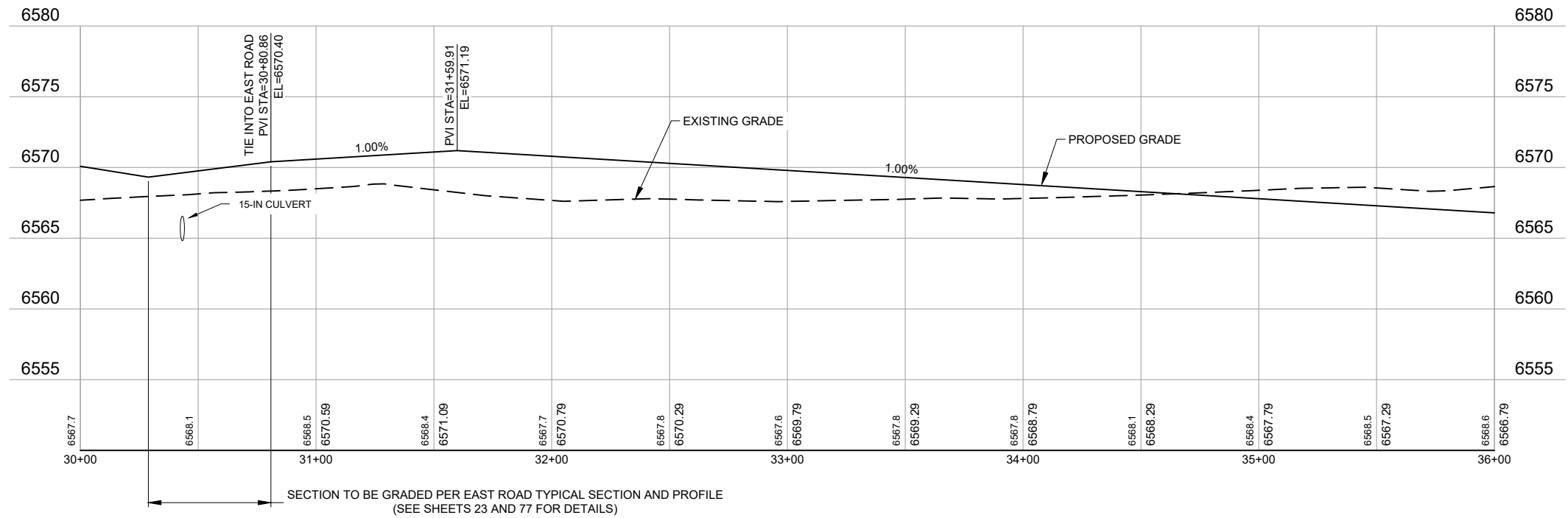
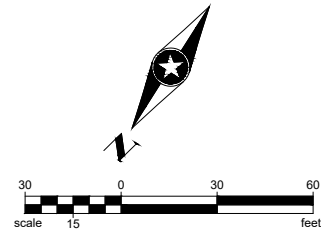
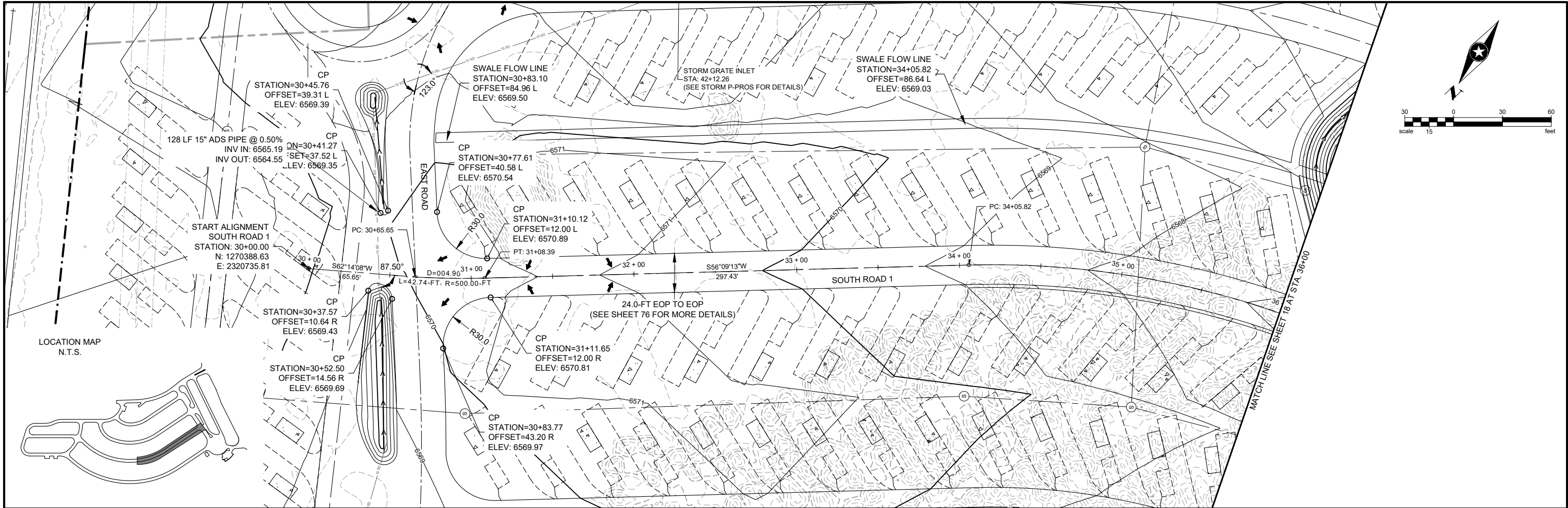
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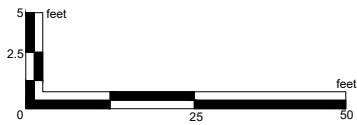
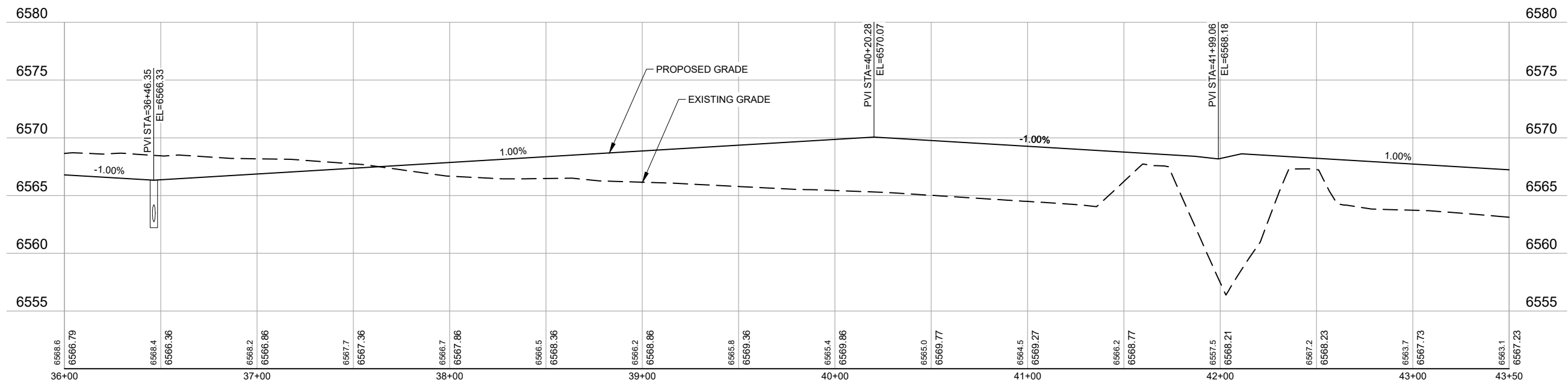
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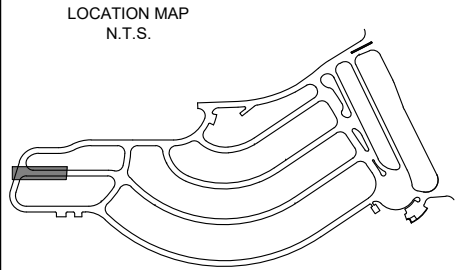
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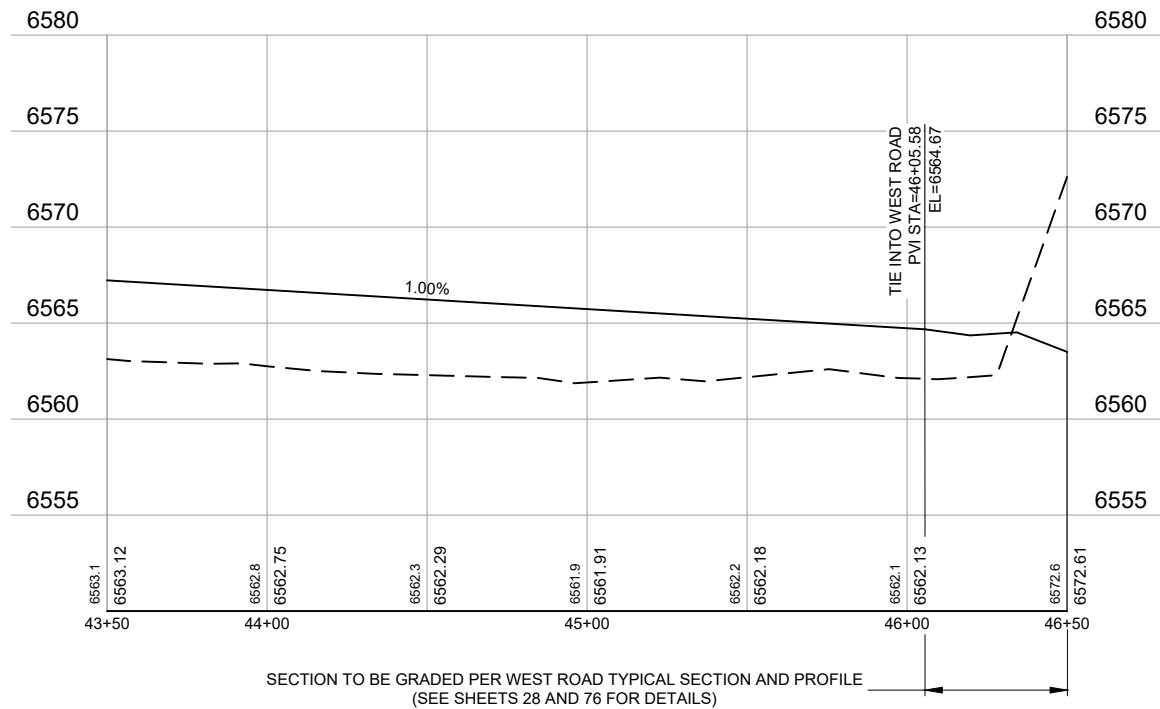
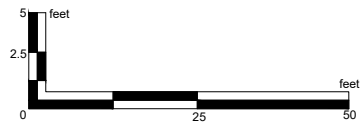
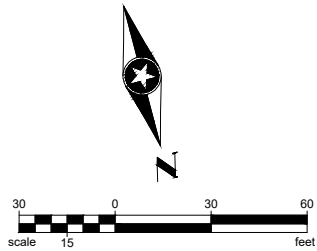
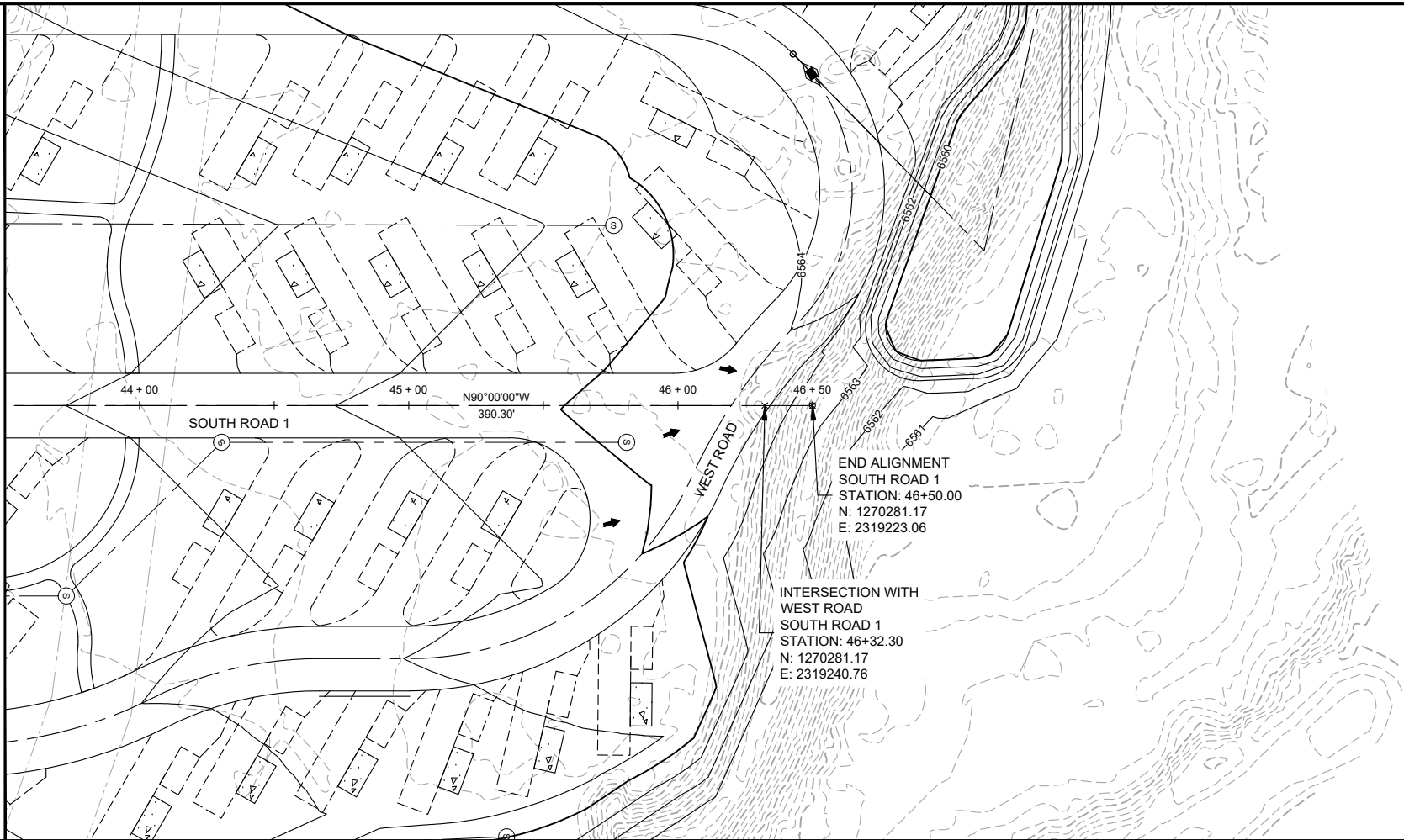
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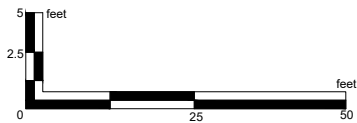
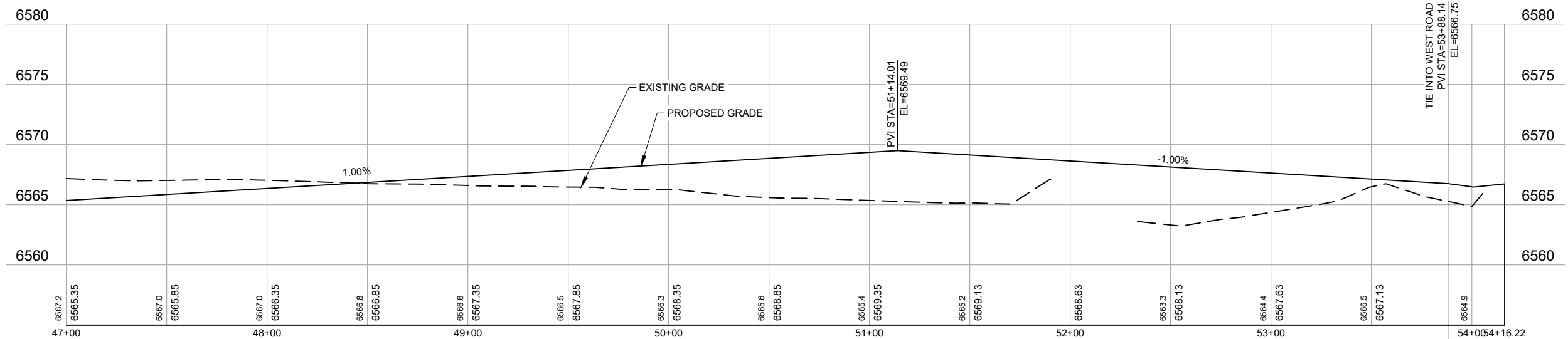
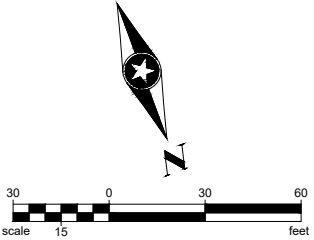
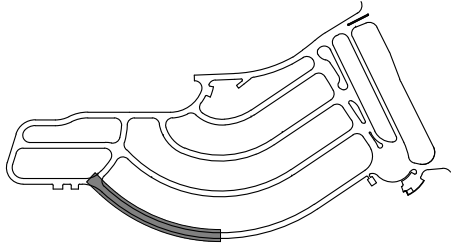
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MATCH LINE SEE SHEET 18 AT STA. 36+00



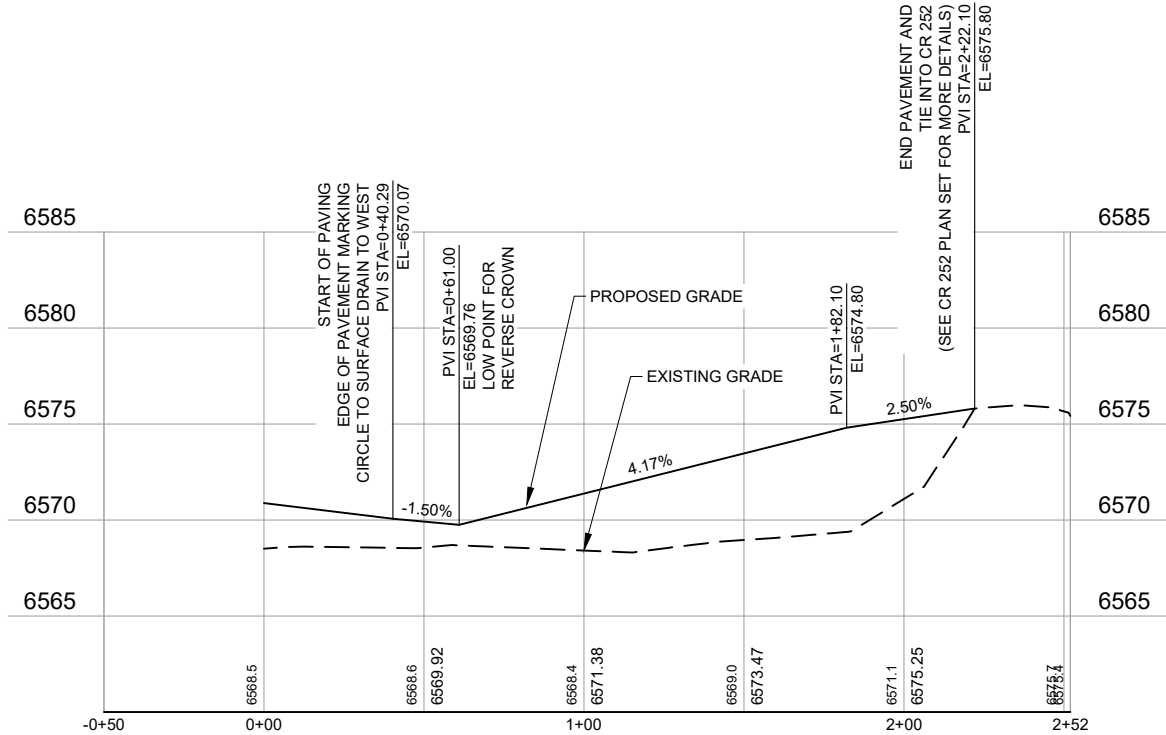
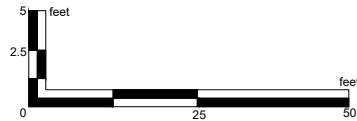
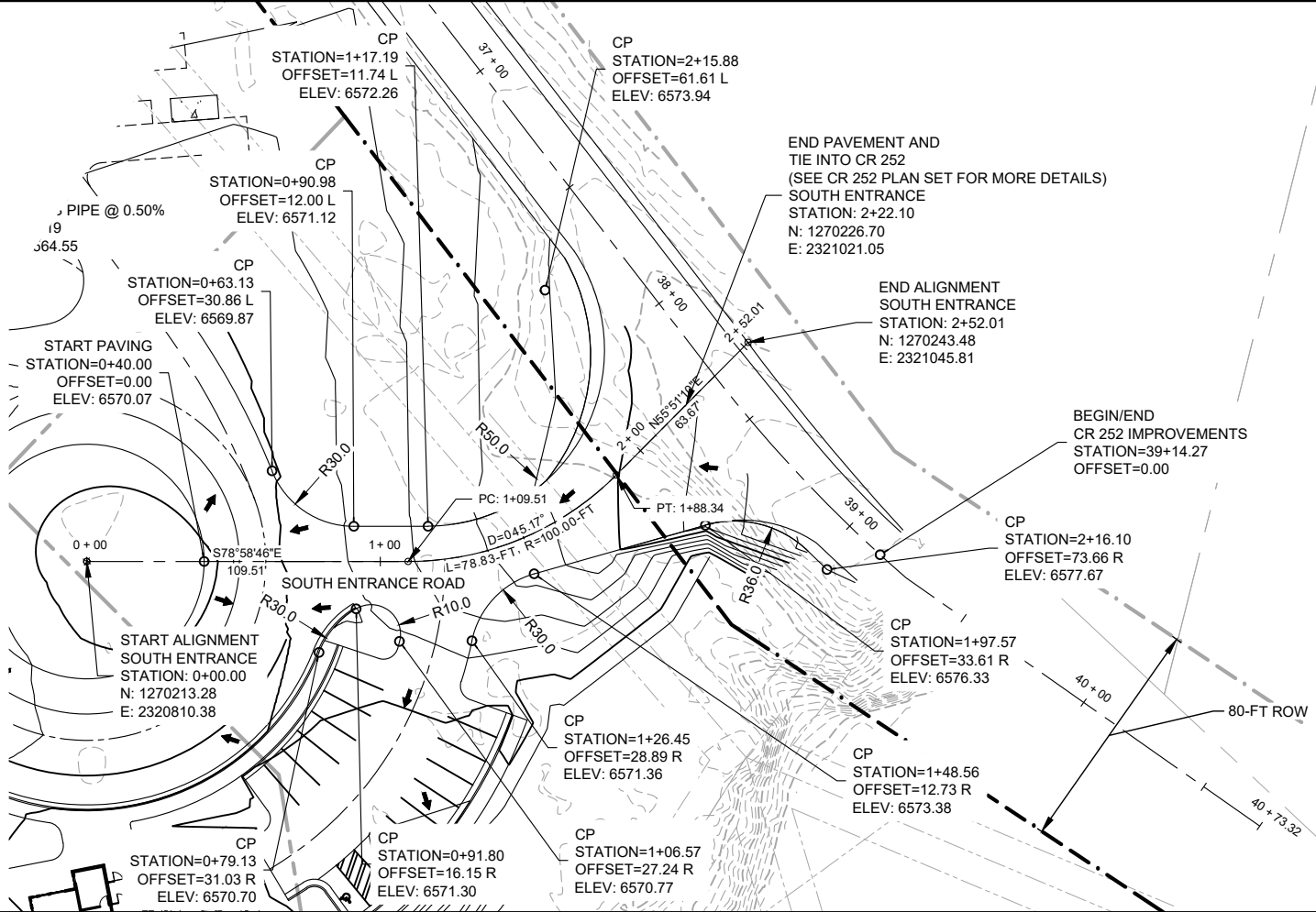
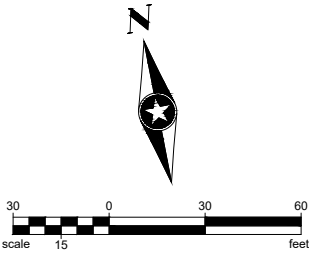
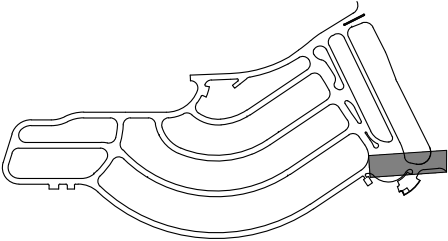
LOCATION MAP
N.T.S.



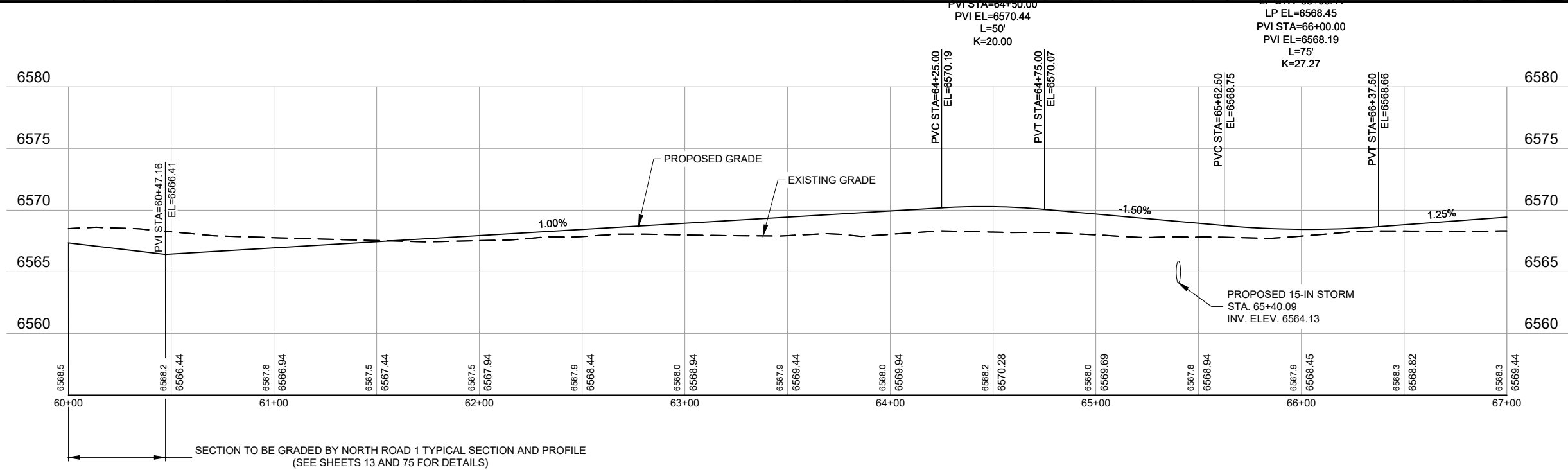
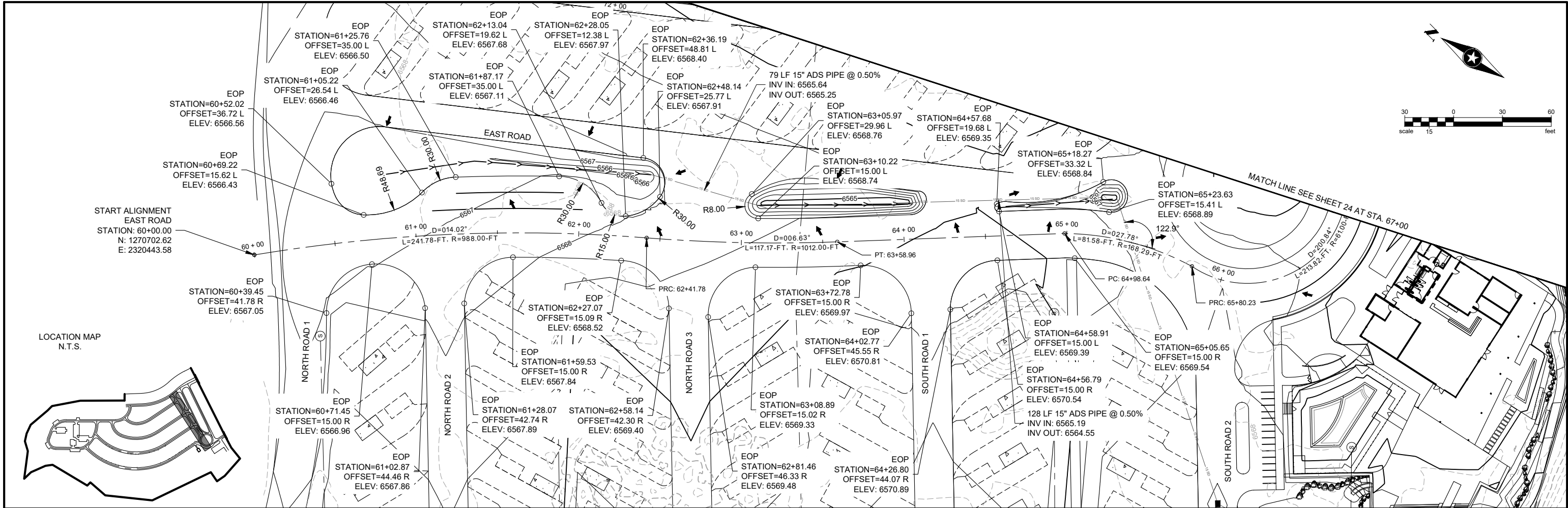
SECTION TO BE GRADED PER WEST ROAD TYPICAL SECTION AND PROFILE
(SEE SHEETS 28 AND 76 FOR DETAILS)

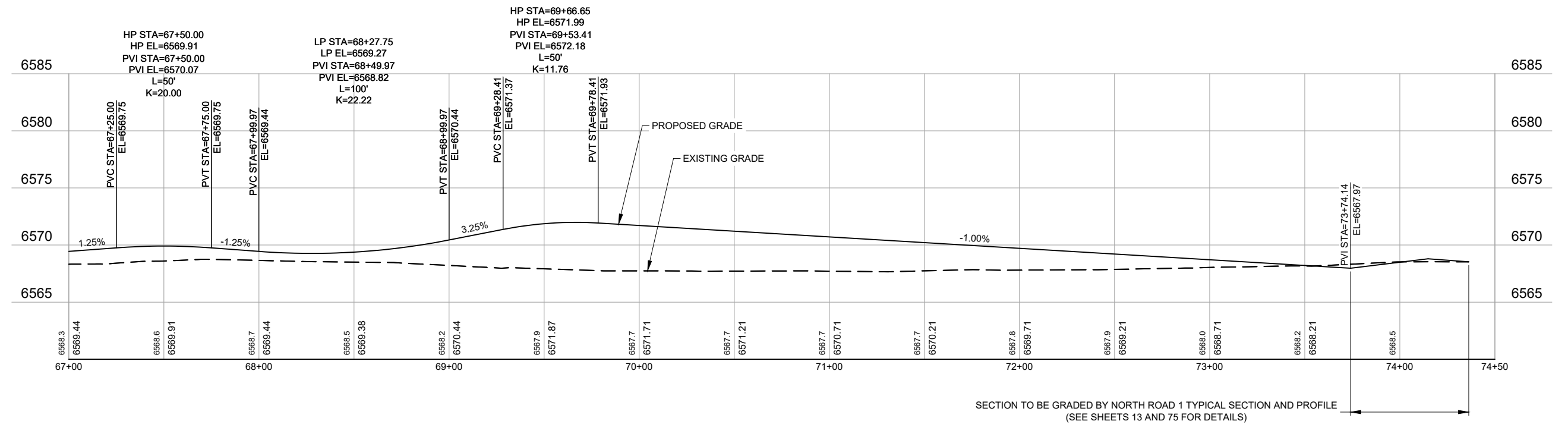
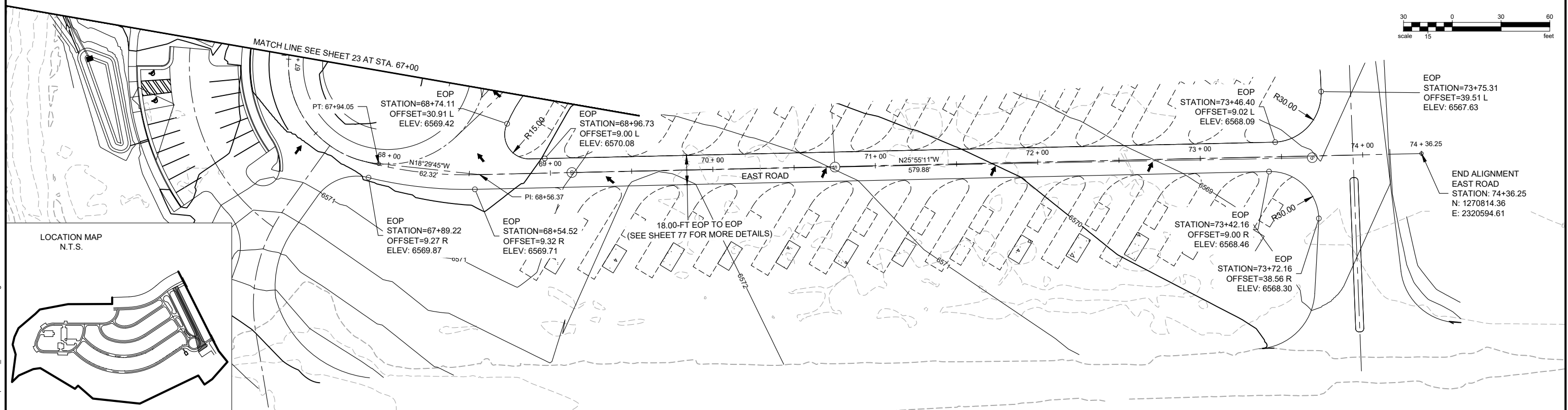
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LOCATION MAP
N.T.S.

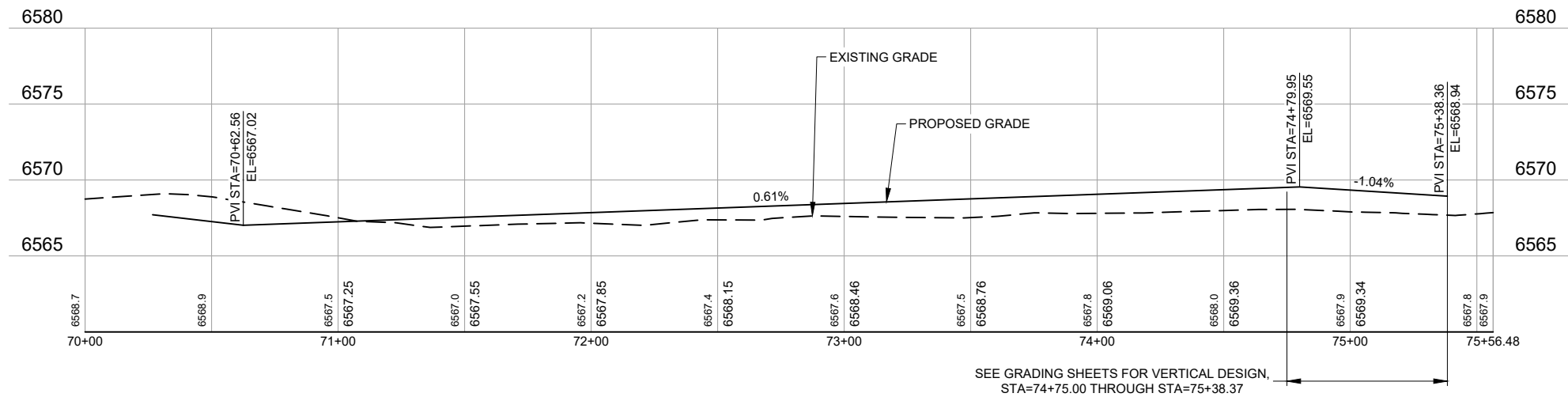
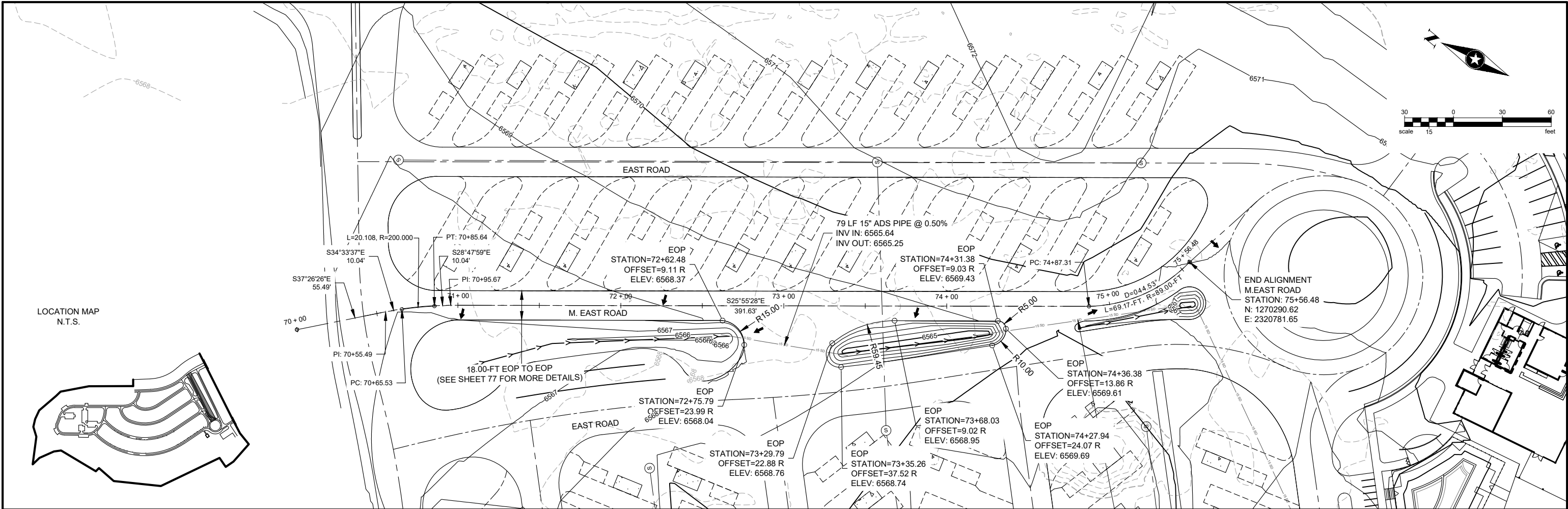


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SEH Project 168892
Drawn By SC/CM
Designed By TM
Checked By SW

Rev. #

Revision Issue Description

Date

Rev. #

Revision Issue Description

Date



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TRAVIS MOONEY
DATE 01/17/2025

LICENSE NO. 0051259

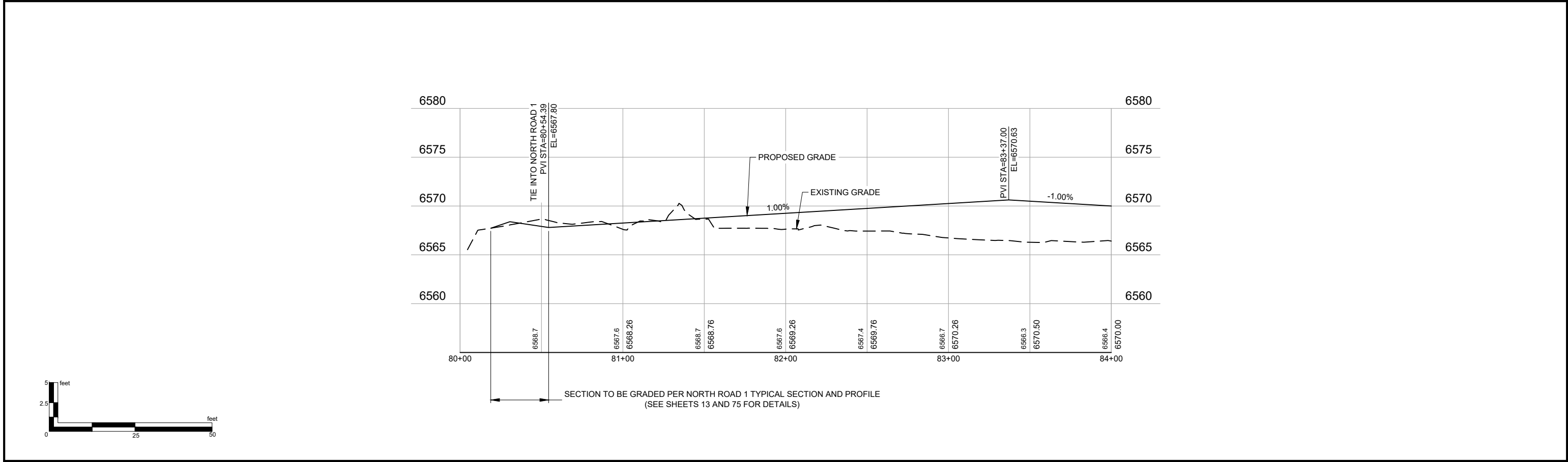
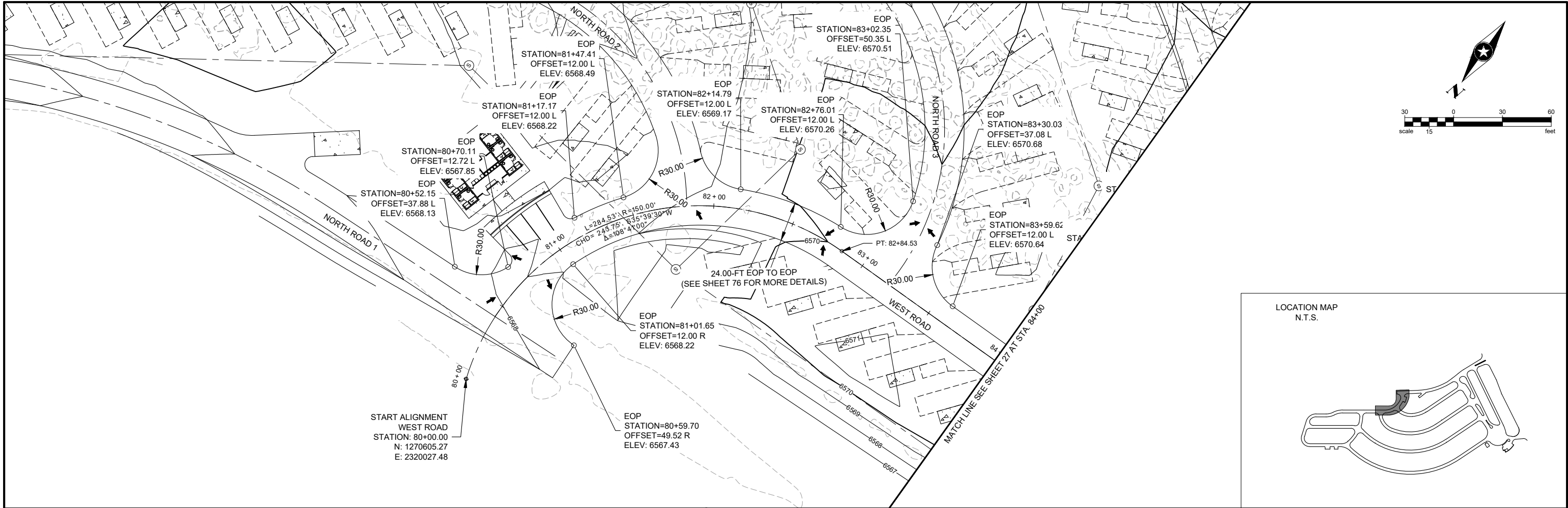
VILLAGE CAMP DURANGO
DURANGO, COLORADO

M. EAST ROAD P-PRO

25

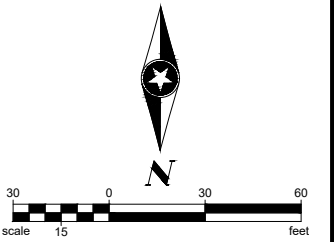
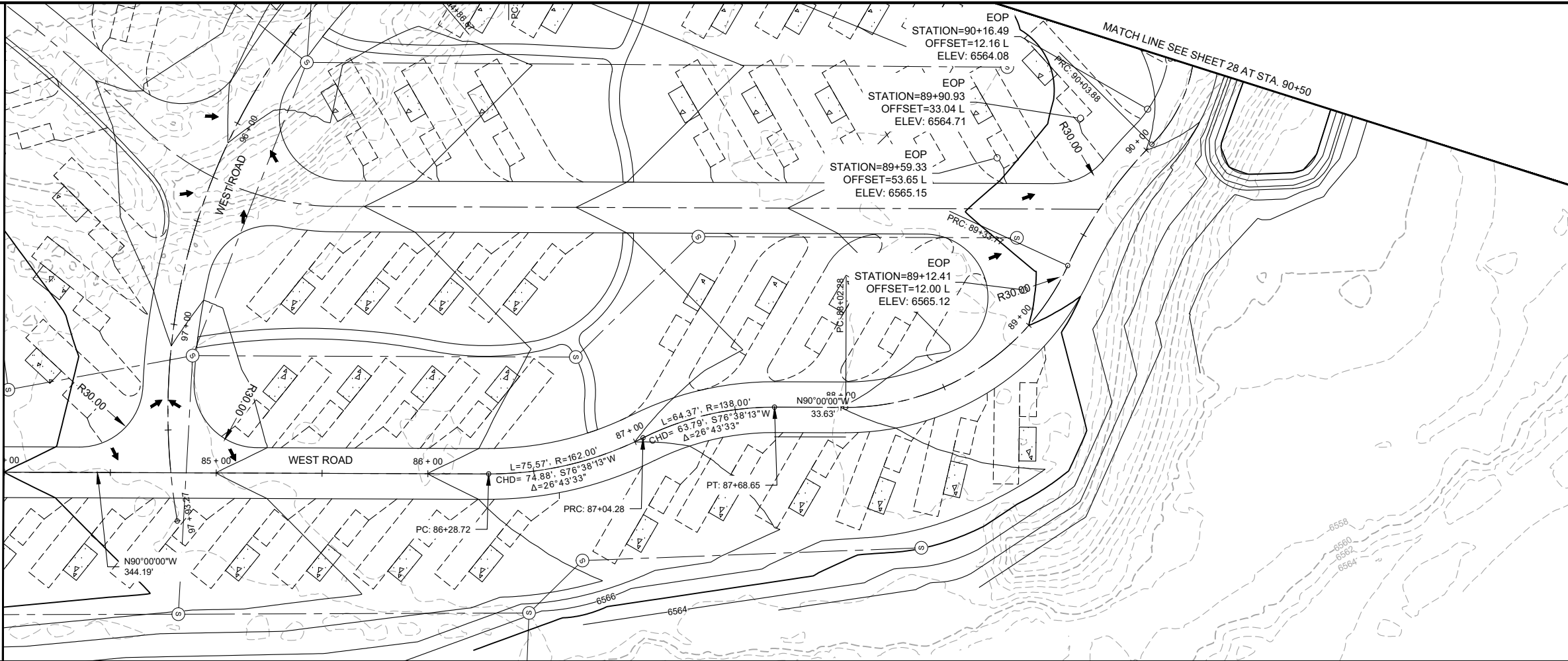
of 82

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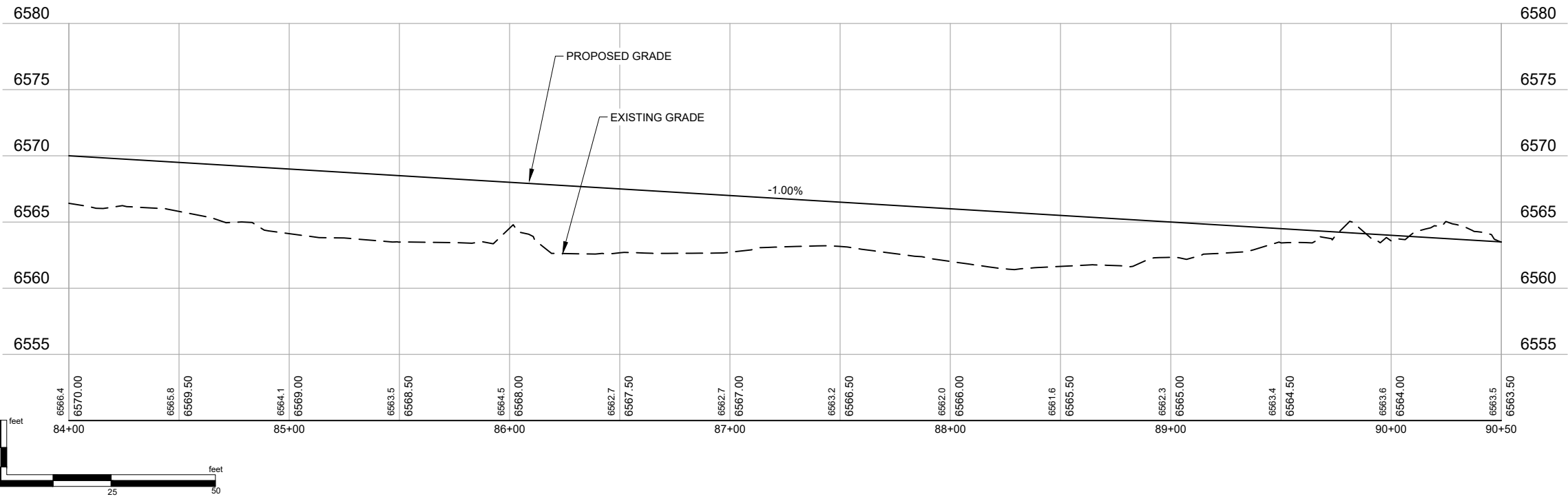
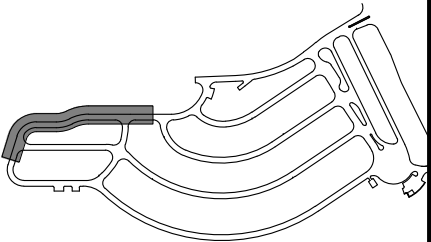


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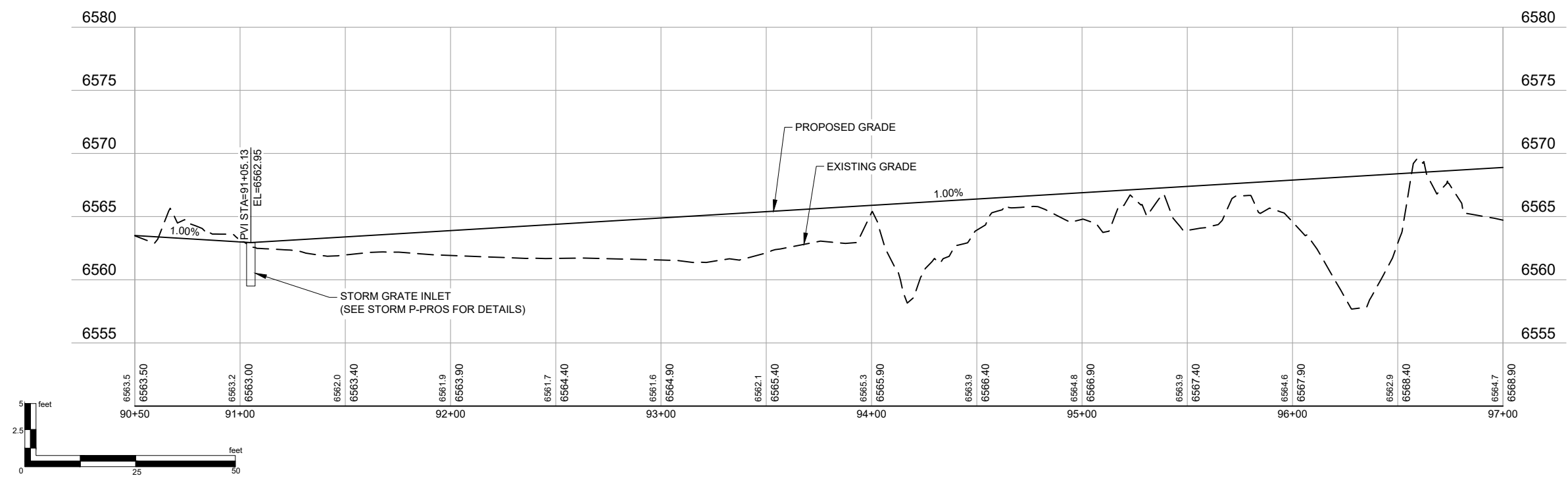
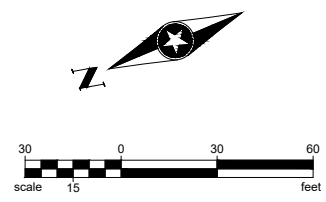
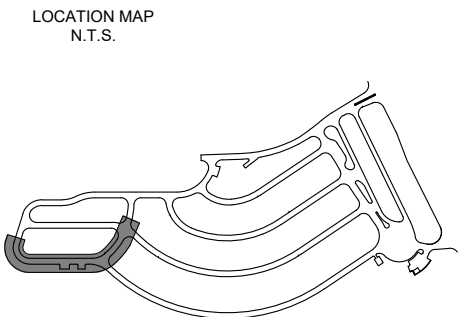
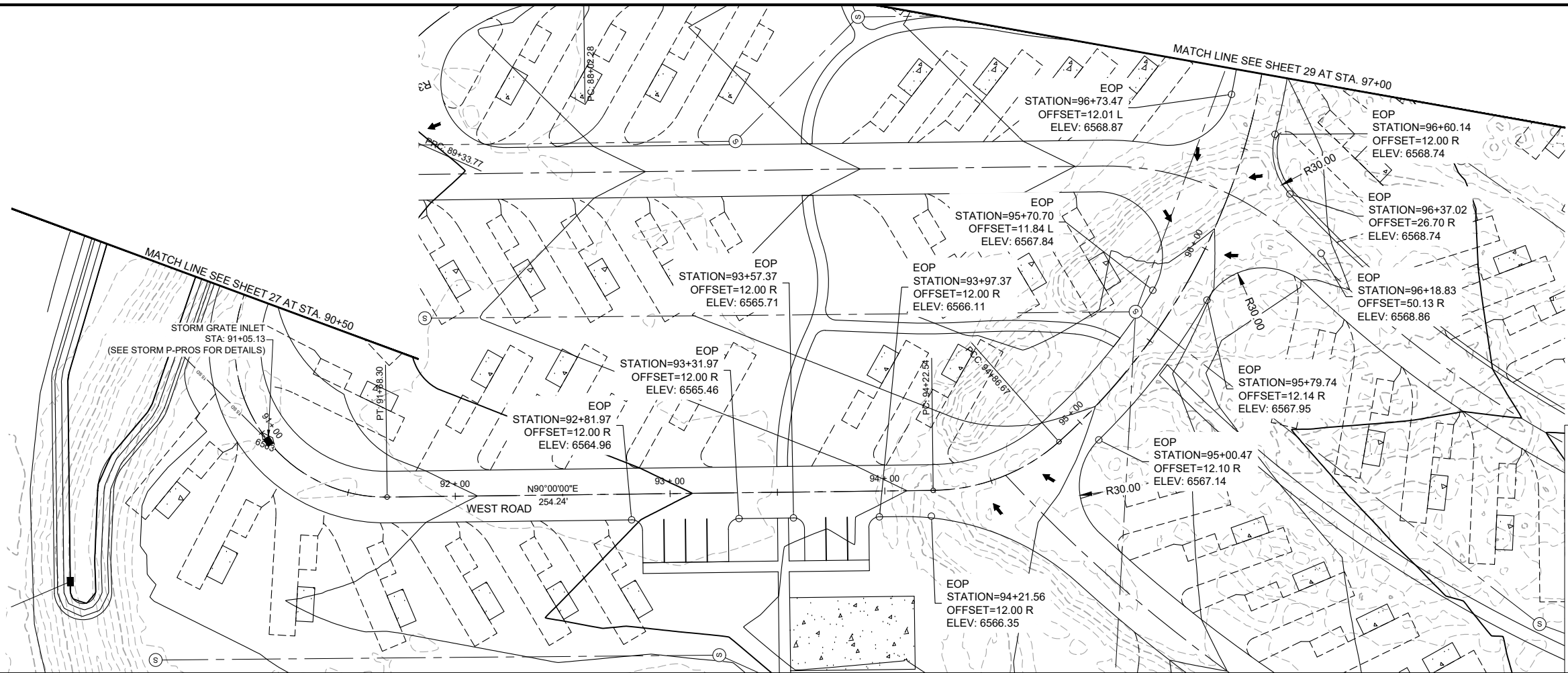
MATCH LINE SEE SHEET 26 AT STA. 84+00



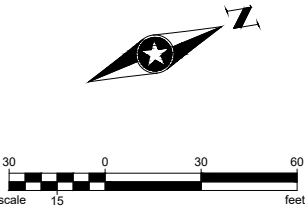
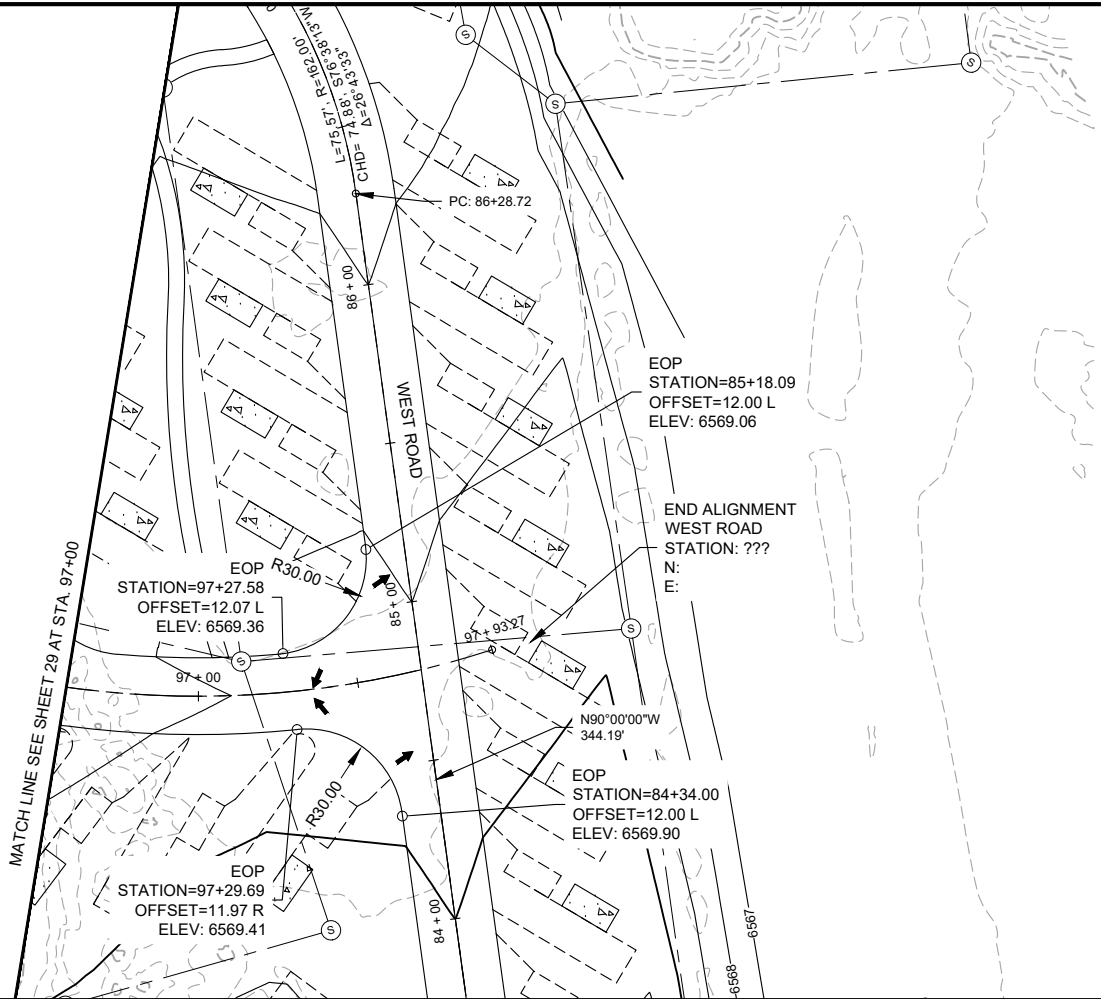
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N.T.S.



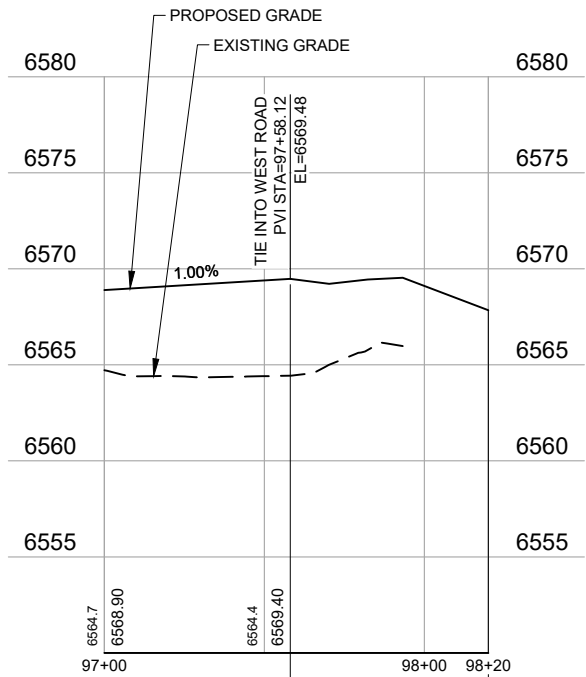
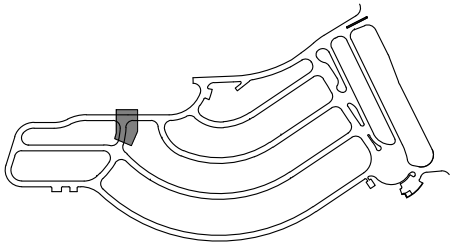
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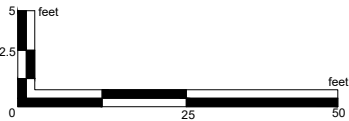
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LOCATION MAP
N.T.S.



SECTION TO BE GRADED PER NORTH ROAD 1 TYPICAL SECTION AND PROFILE
(SEE SHEETS 13 AND 75 FOR DETAILS)



SEH Project	168892	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	SC/CM						
Designed By	TM						
Checked By	SW						

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

TRAVIS MOONEY
DATE 01/17/2025
LICENSE NO. 0051259

VILLAGE CAMP DURANGO
DURANGO, COLORADO

WEST ROAD P-PRO 97+00 TO END

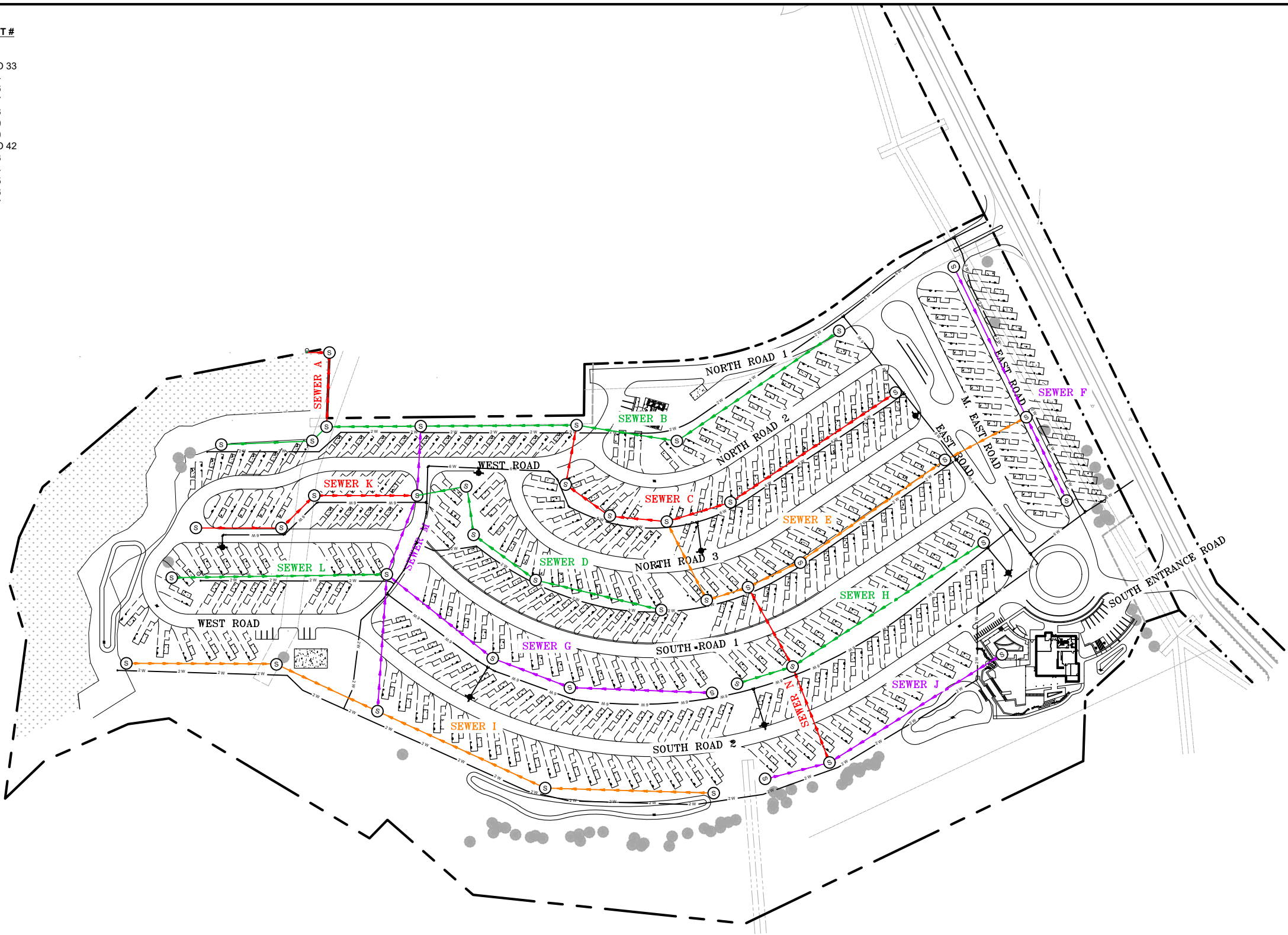
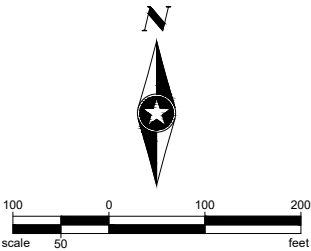
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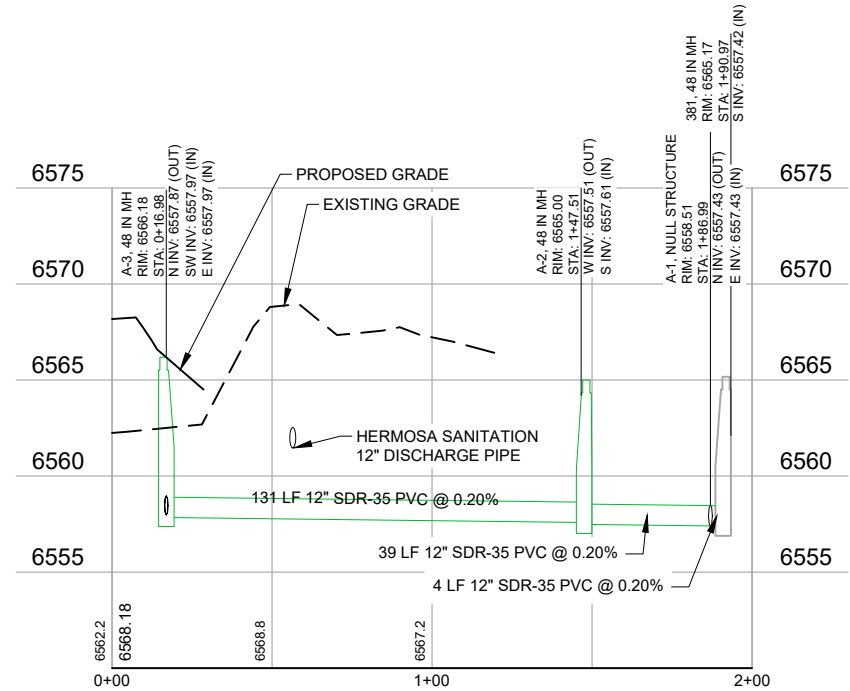
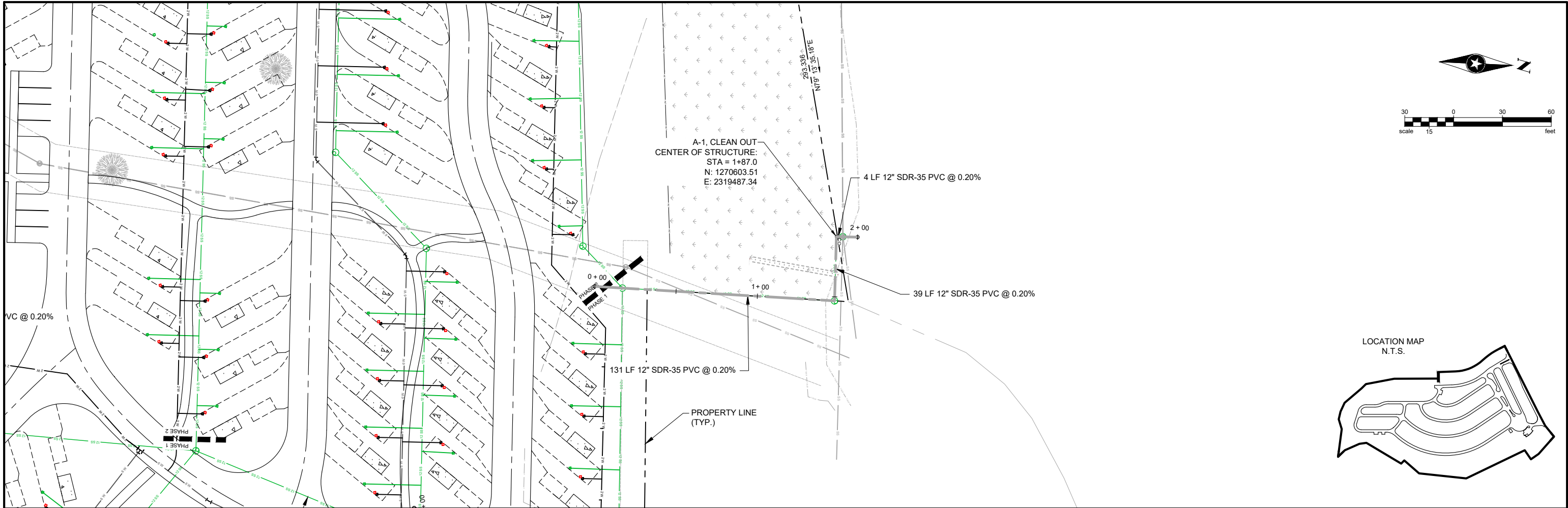
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SHEET #

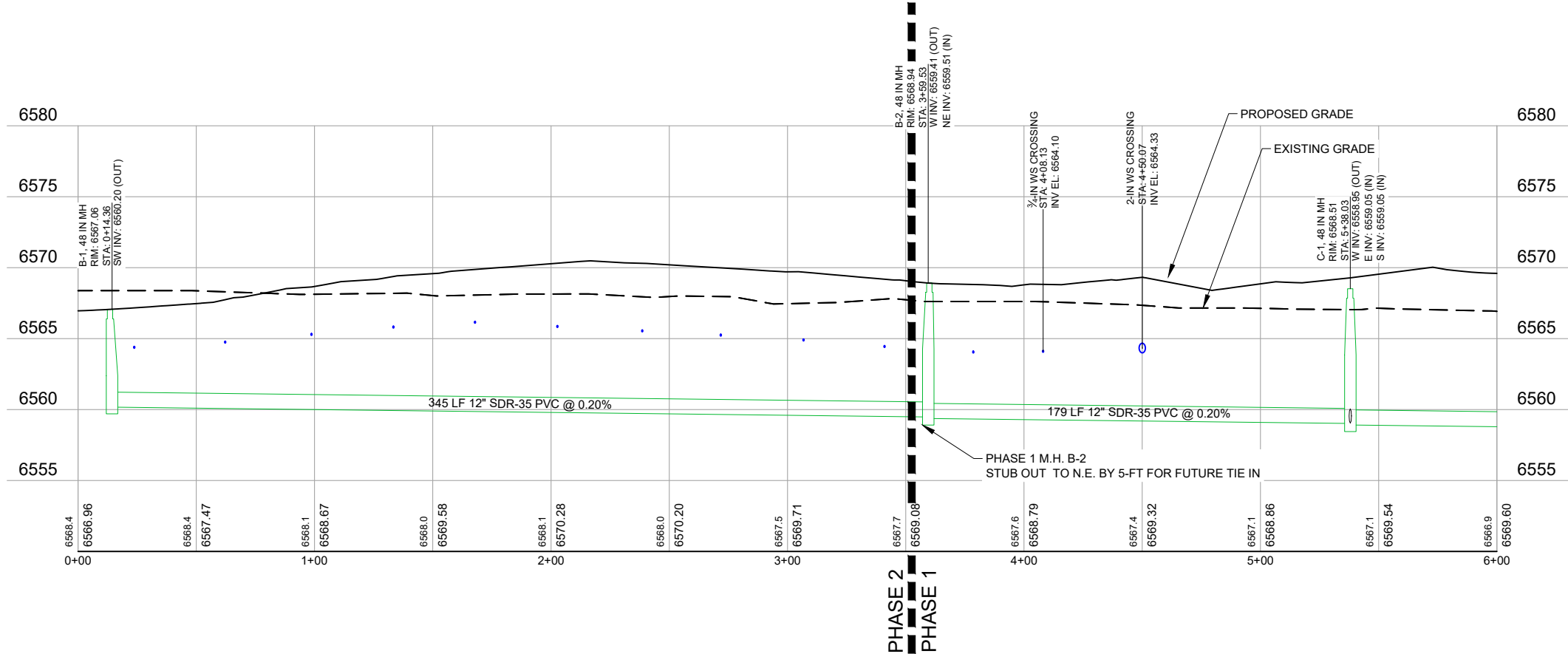
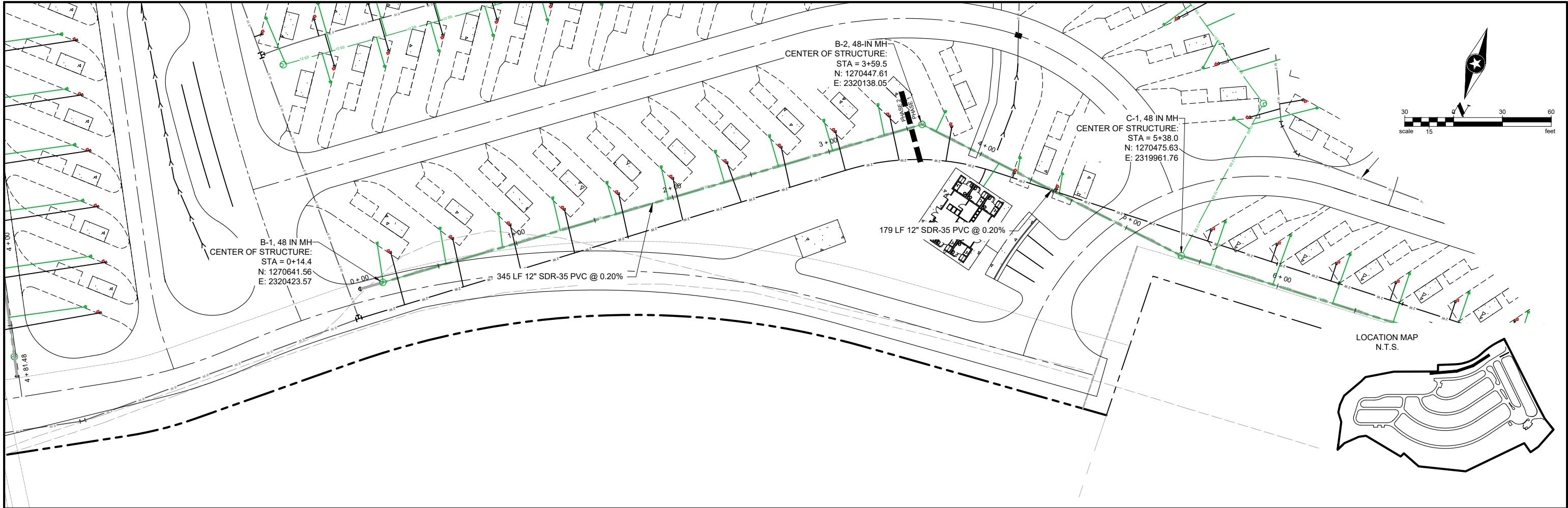
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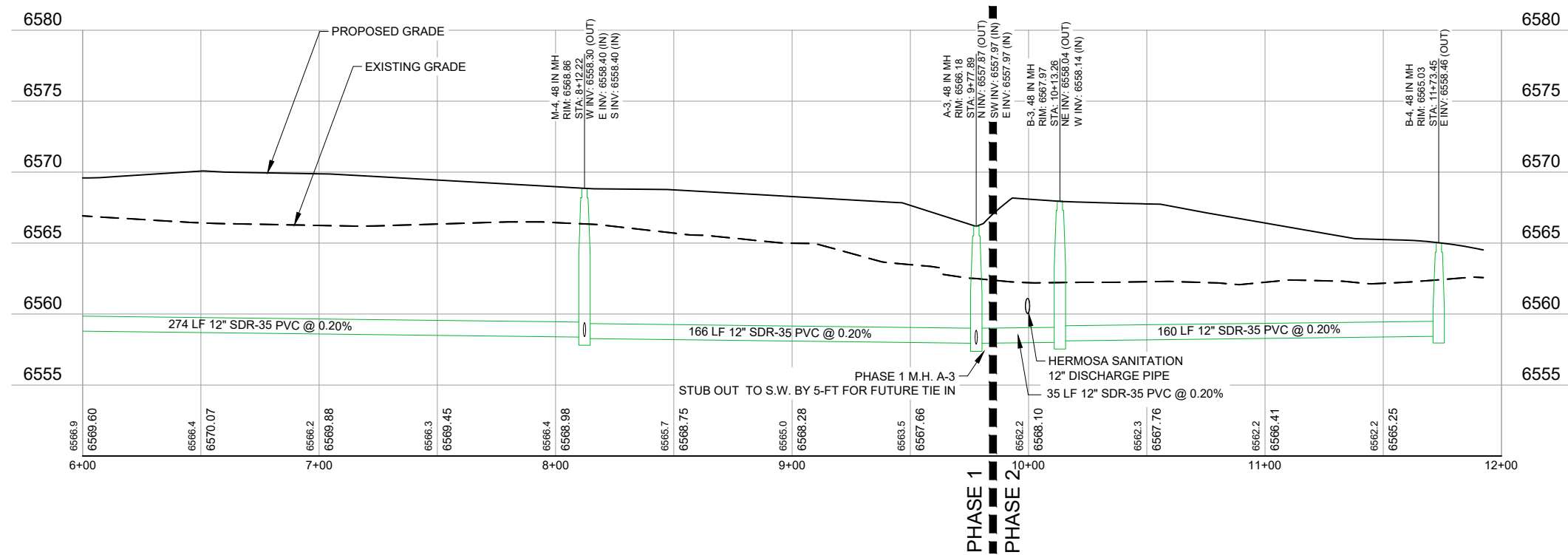
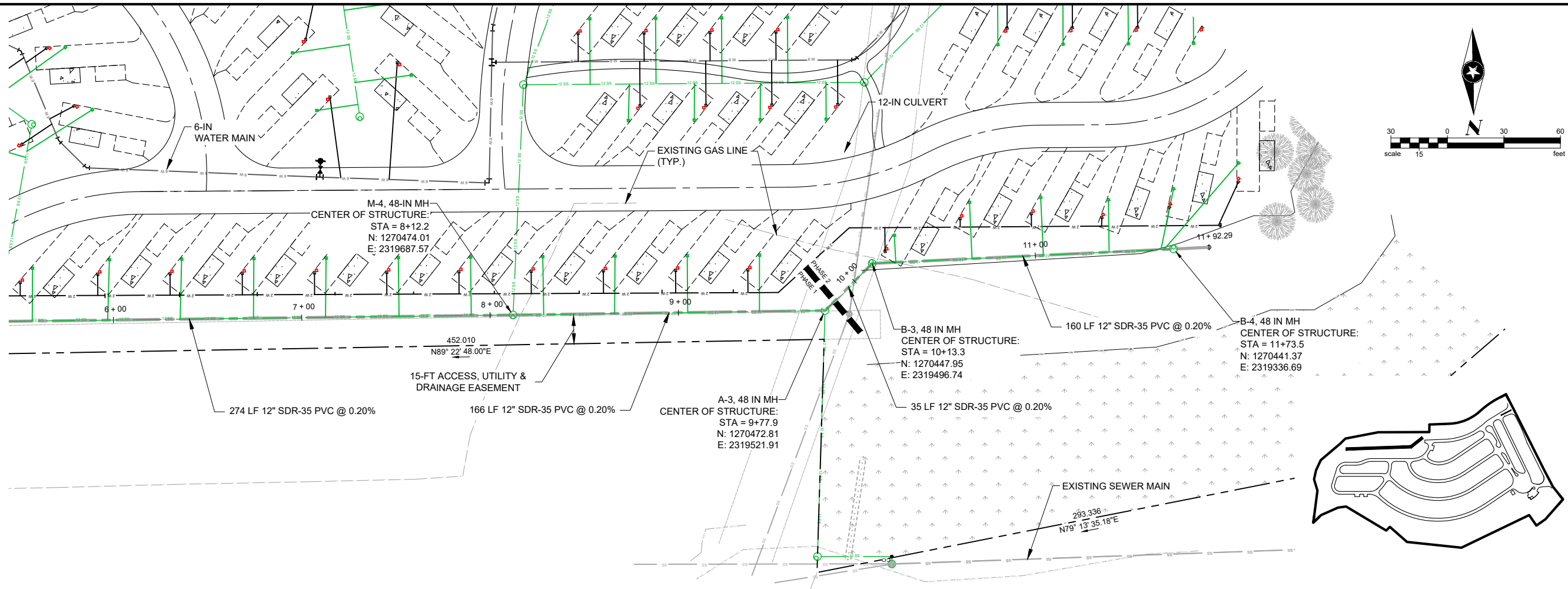


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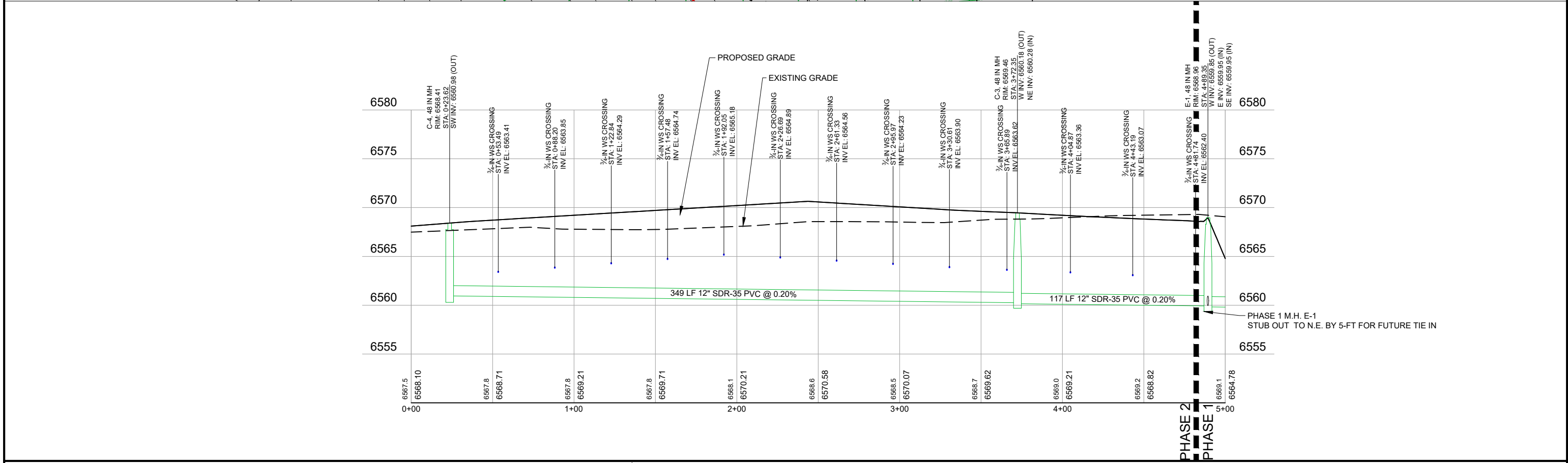
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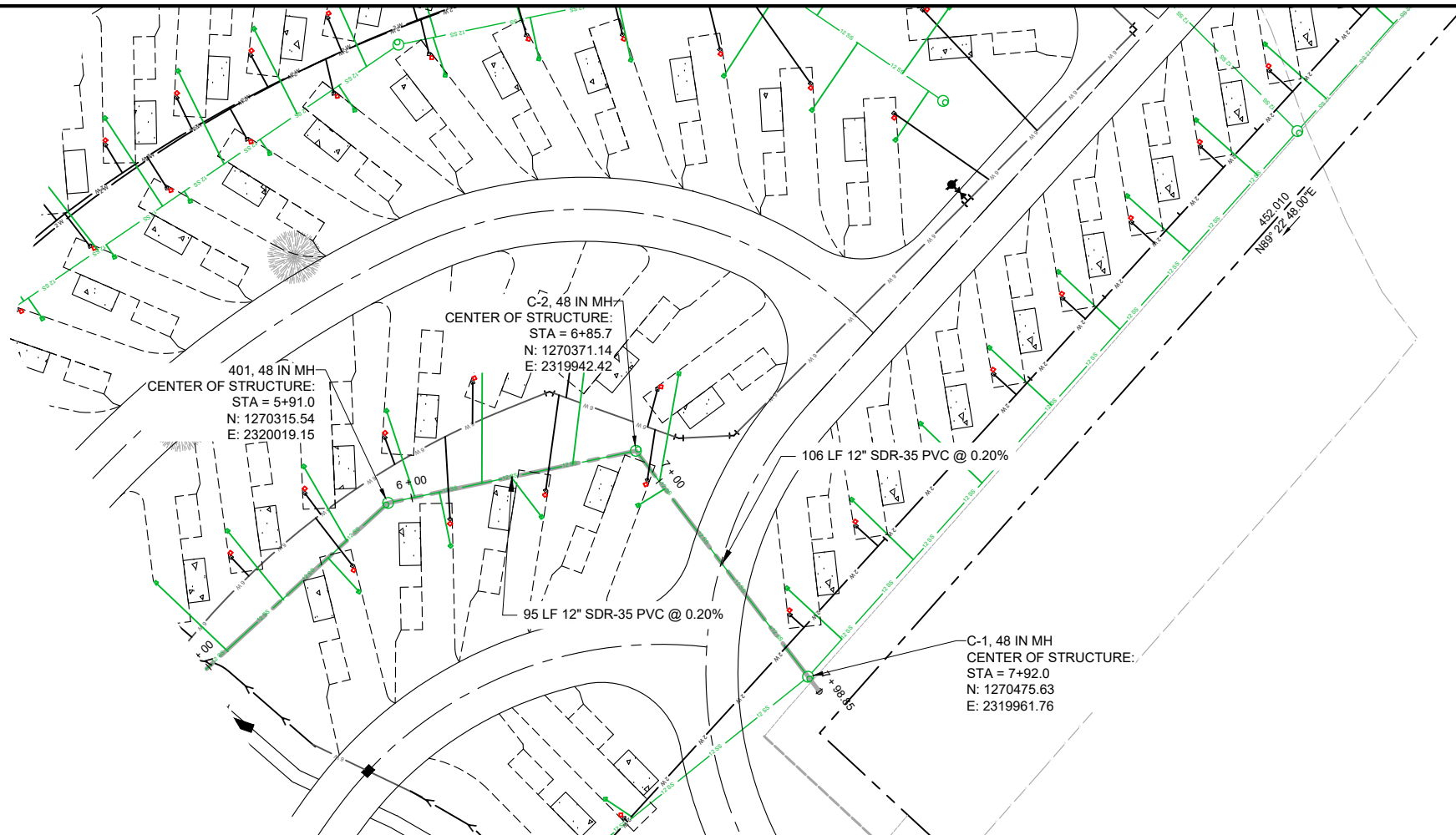
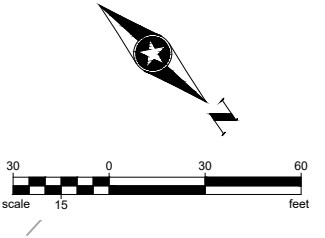
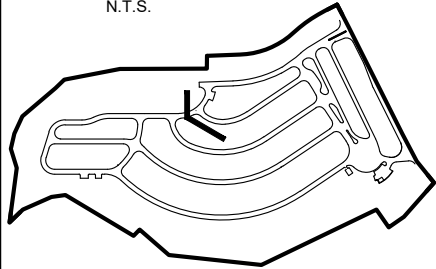
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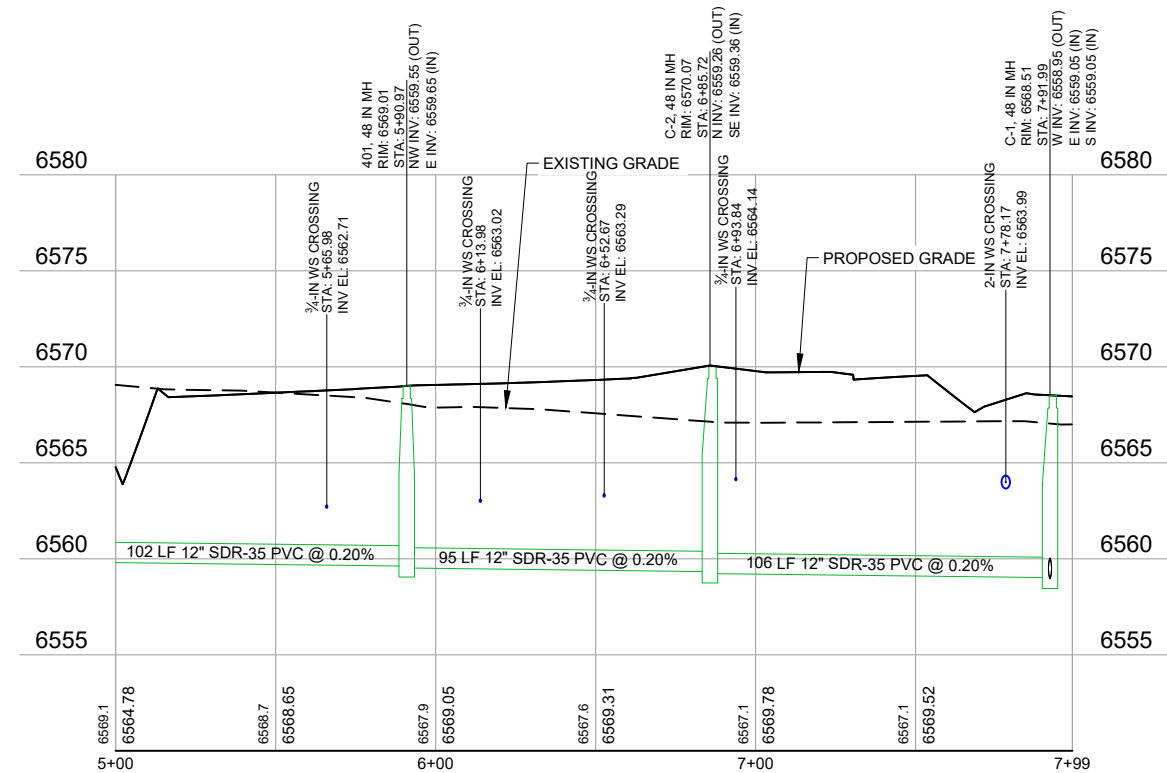


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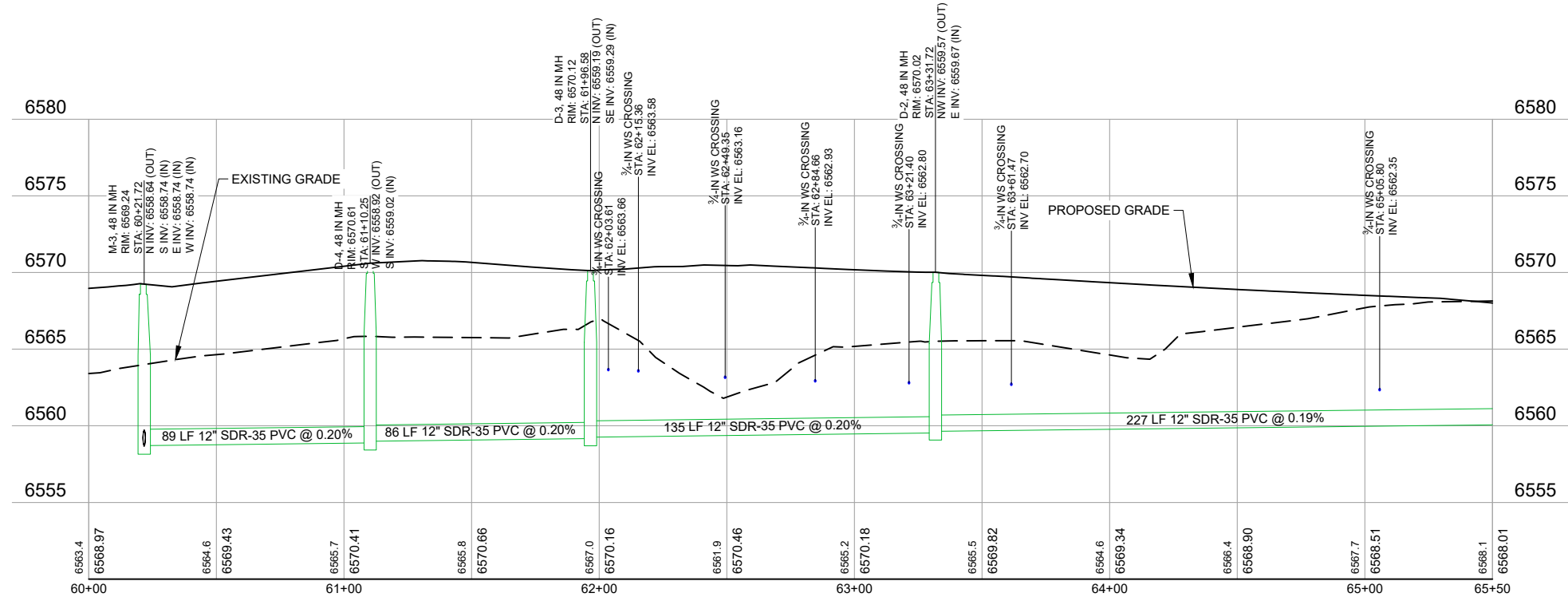
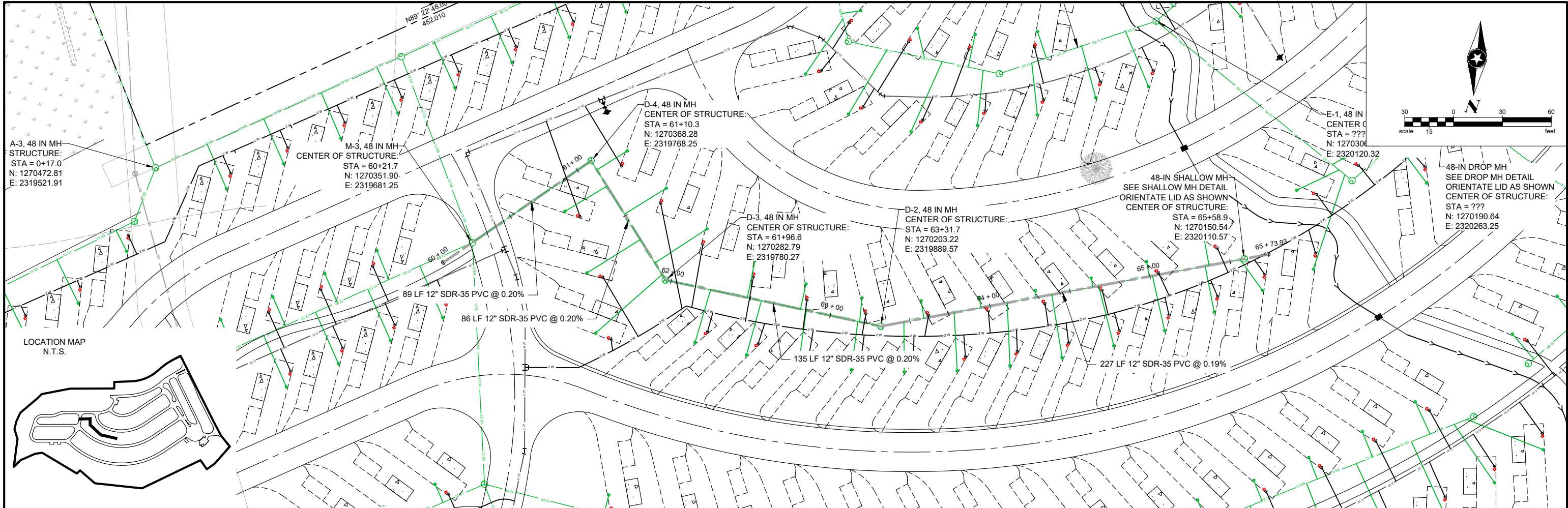
LOCATION MAP
N.T.S.



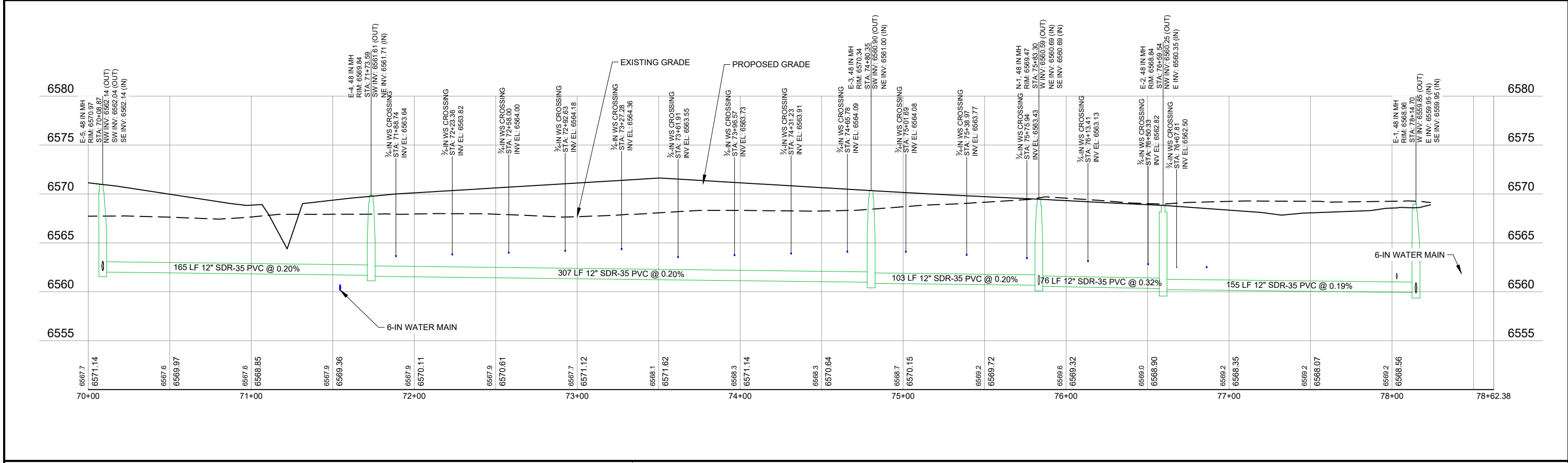
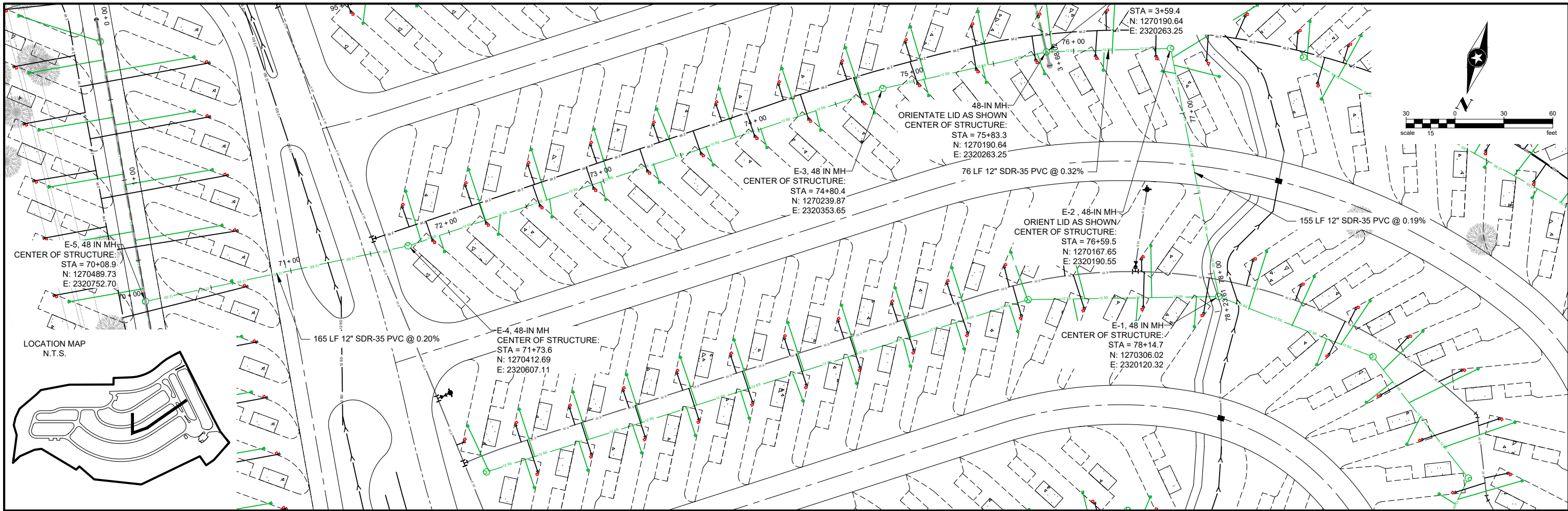
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3 N.E. BY 5-FT FOR FUTURE TIE IN



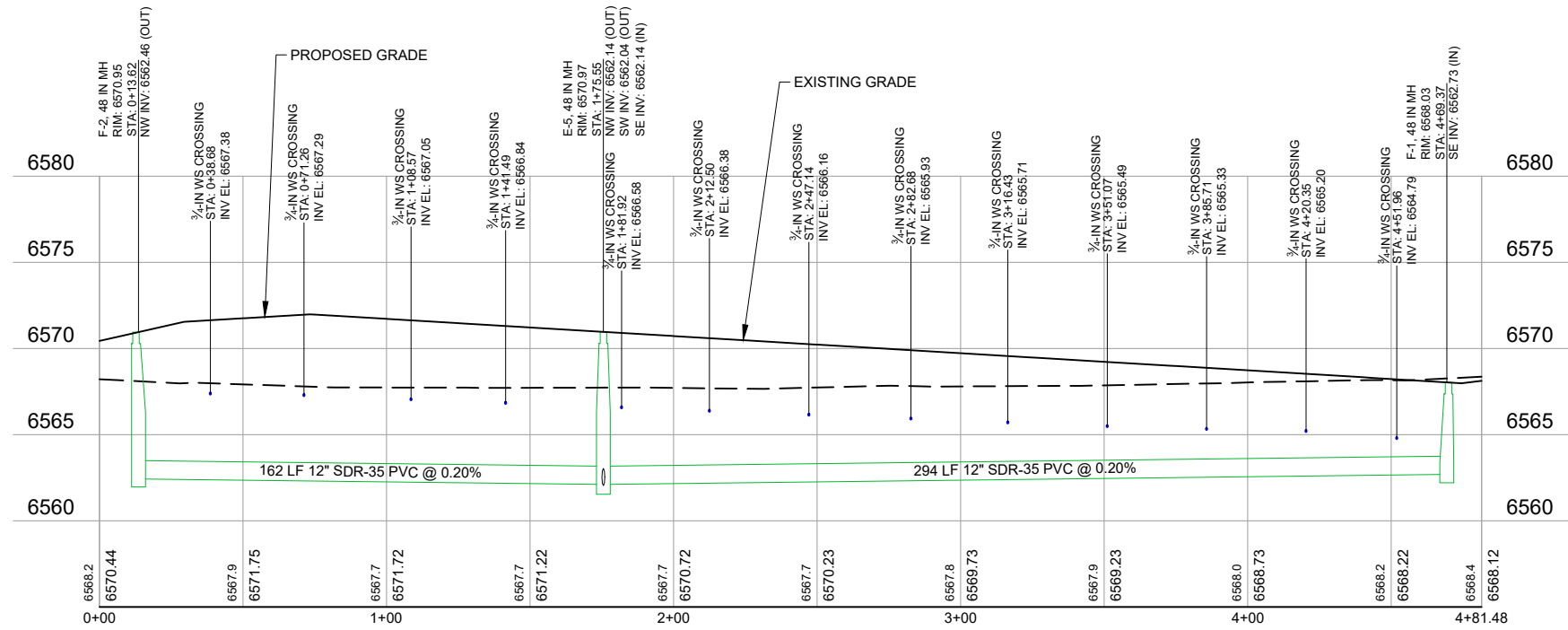
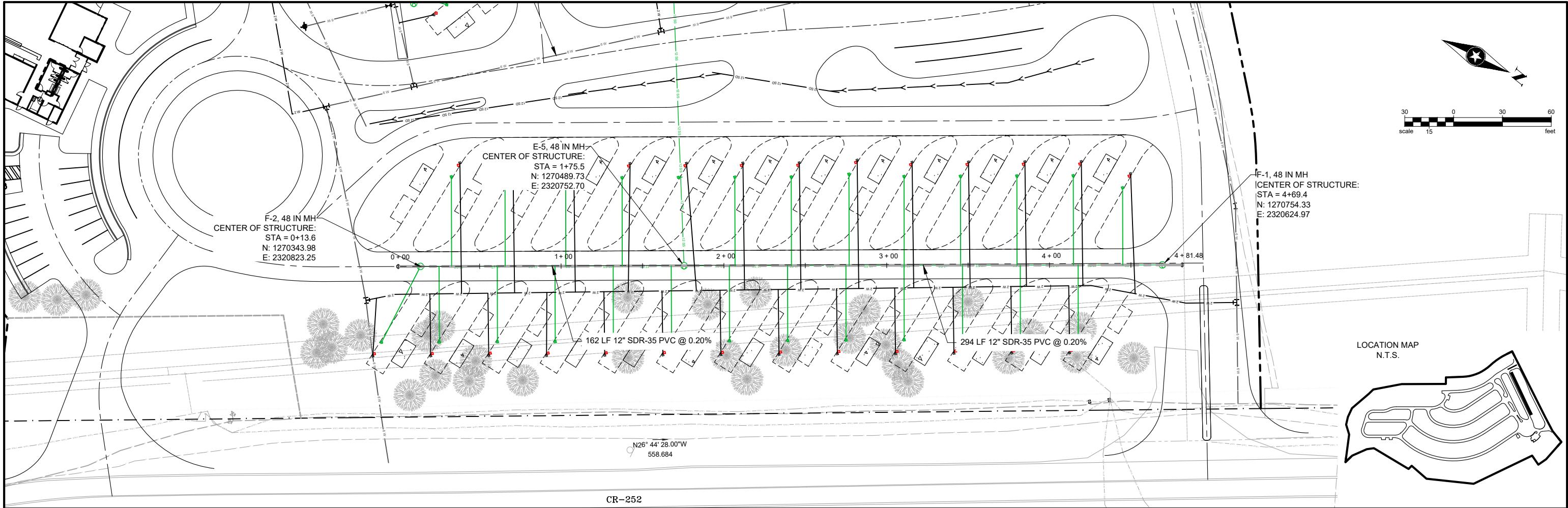
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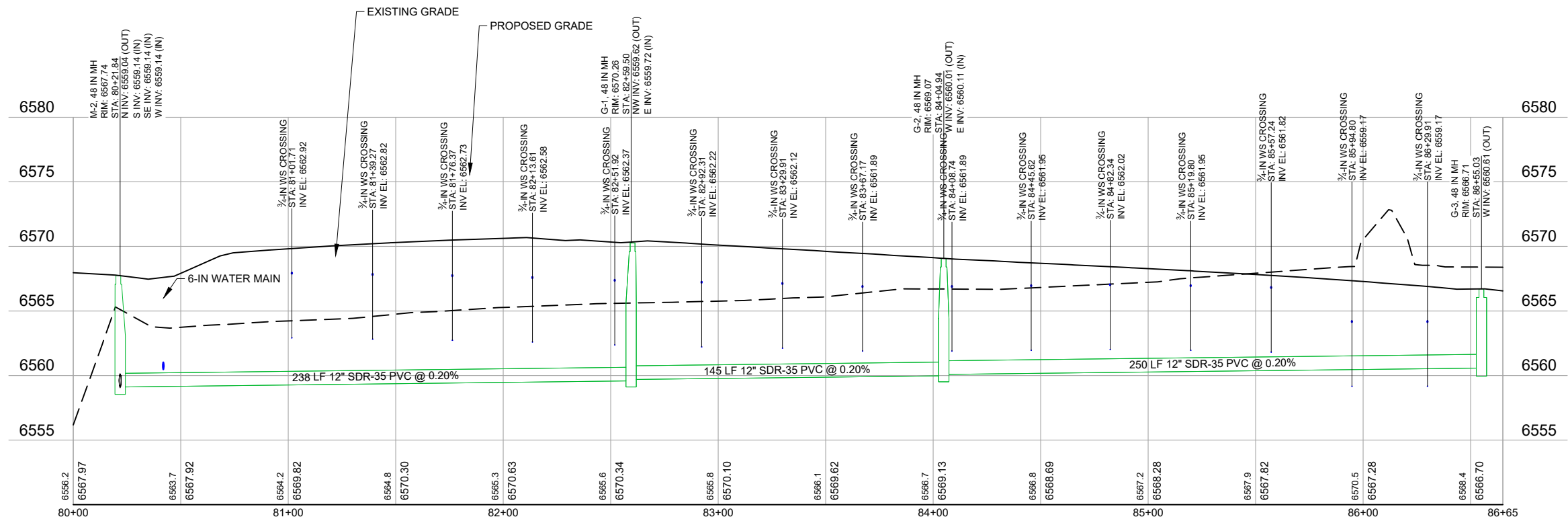
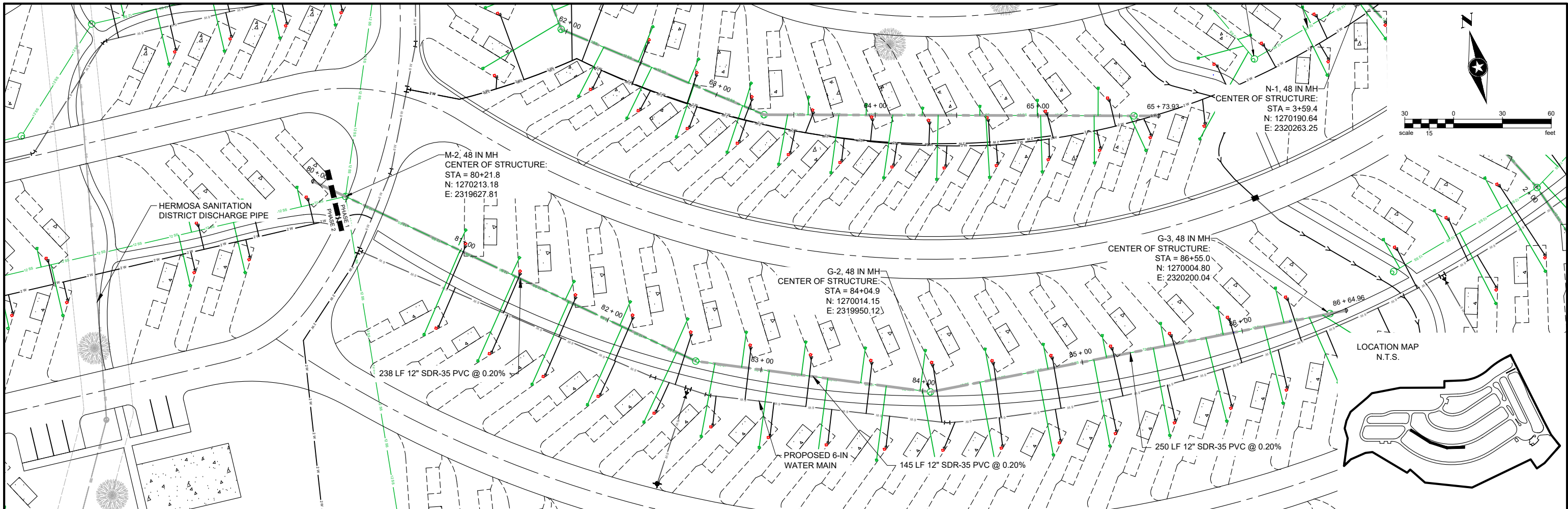
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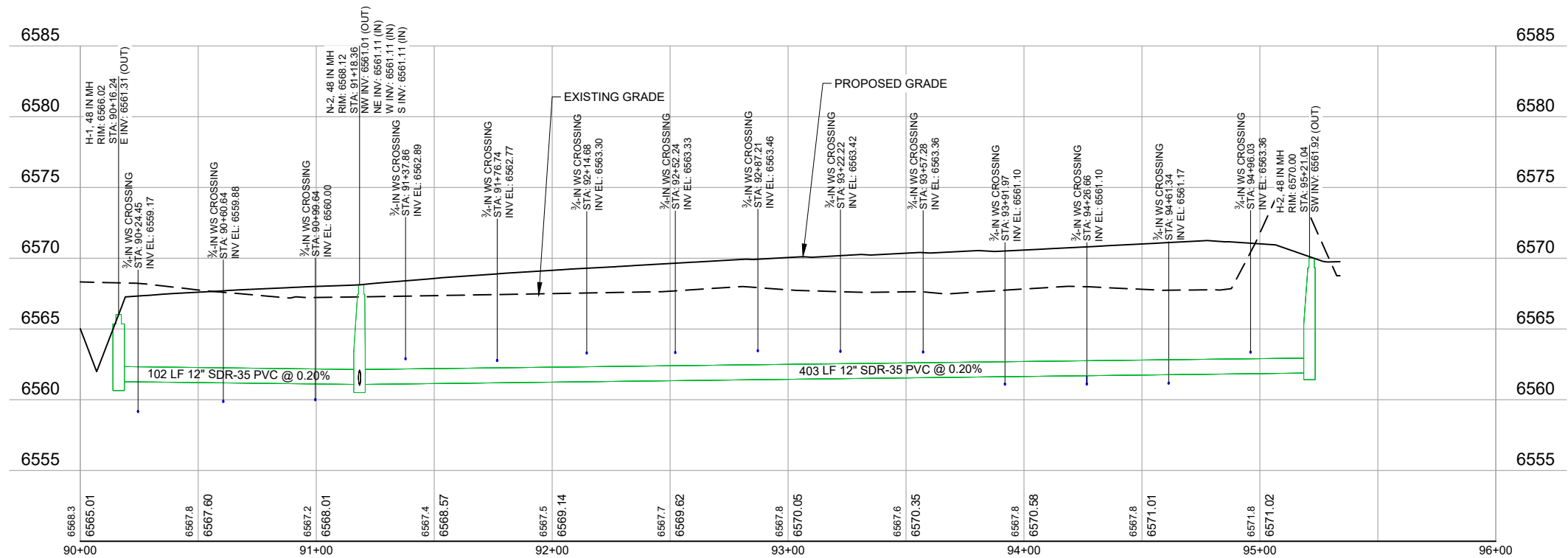
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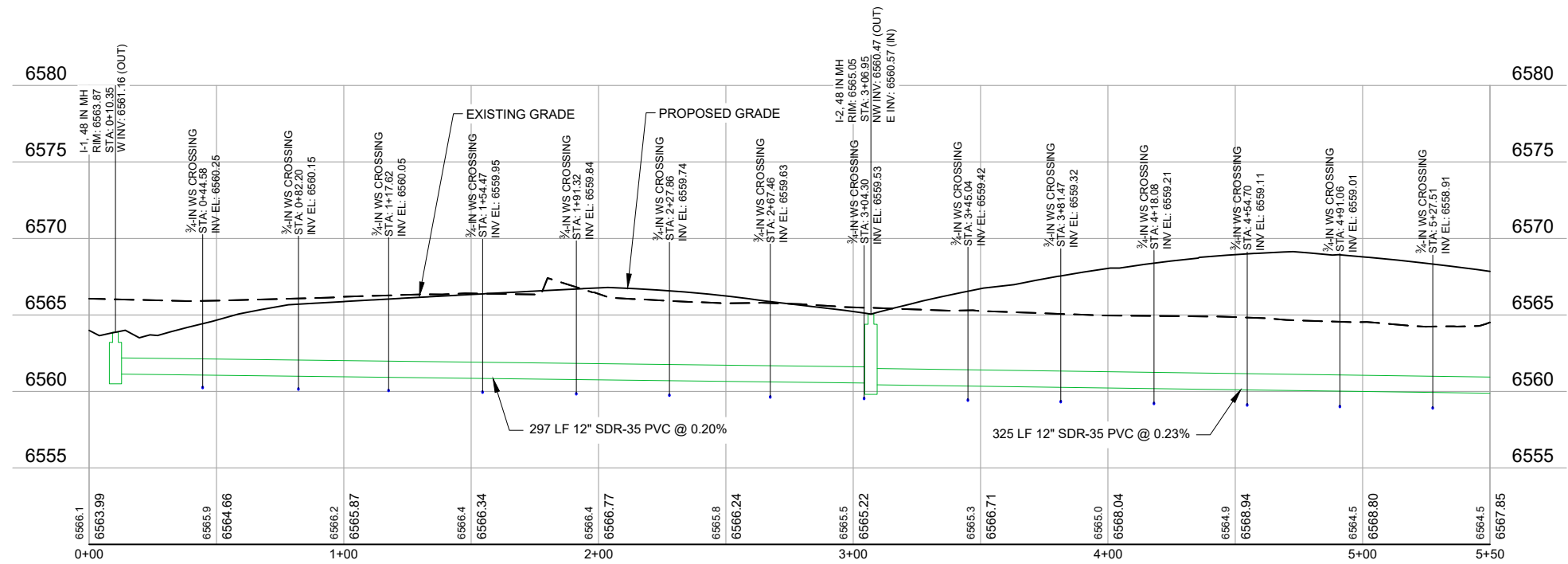
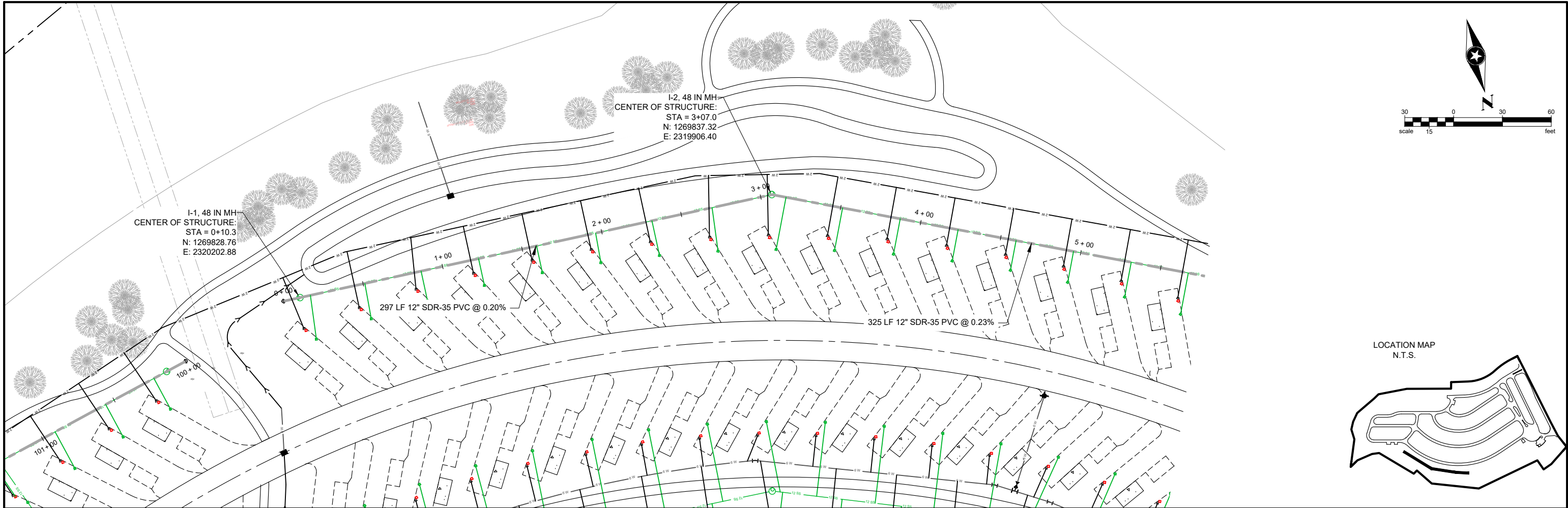
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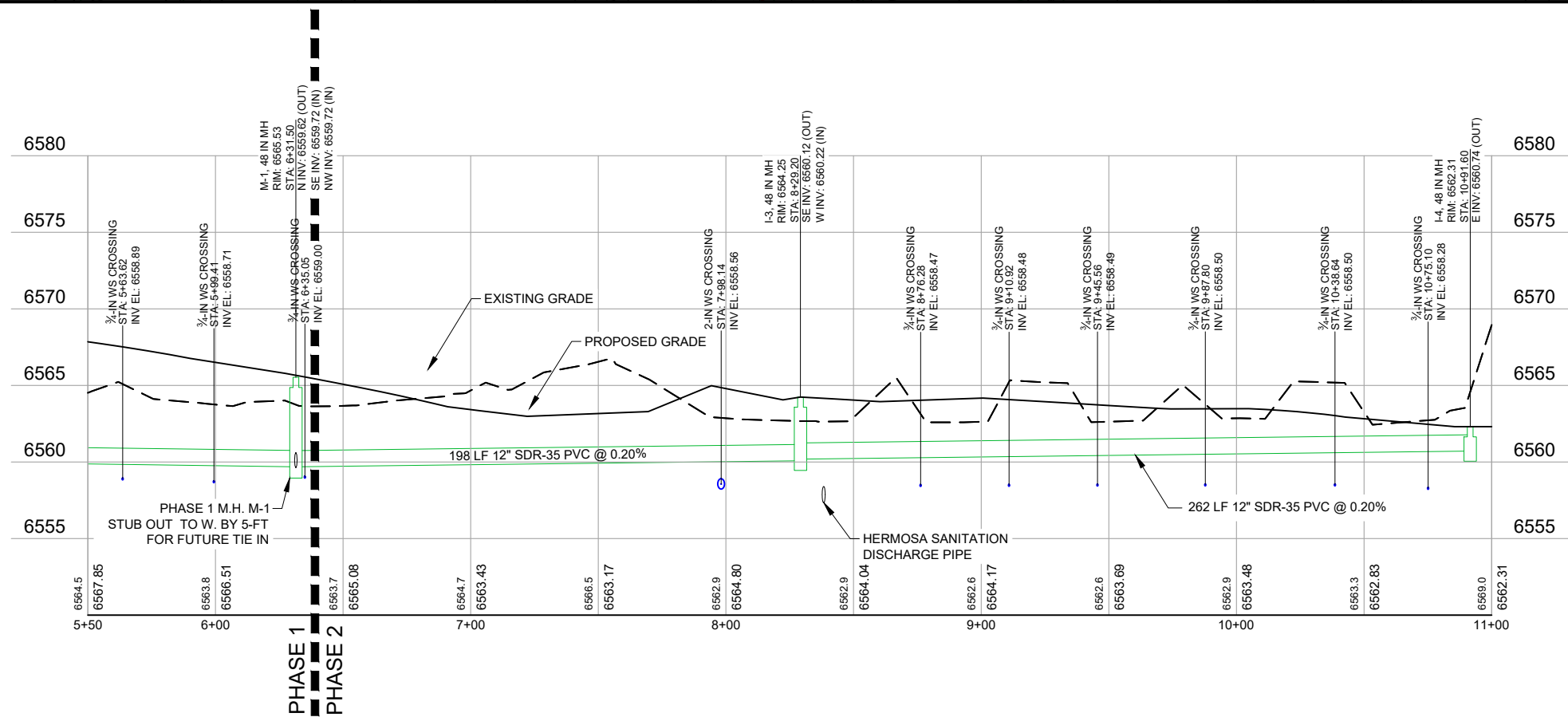
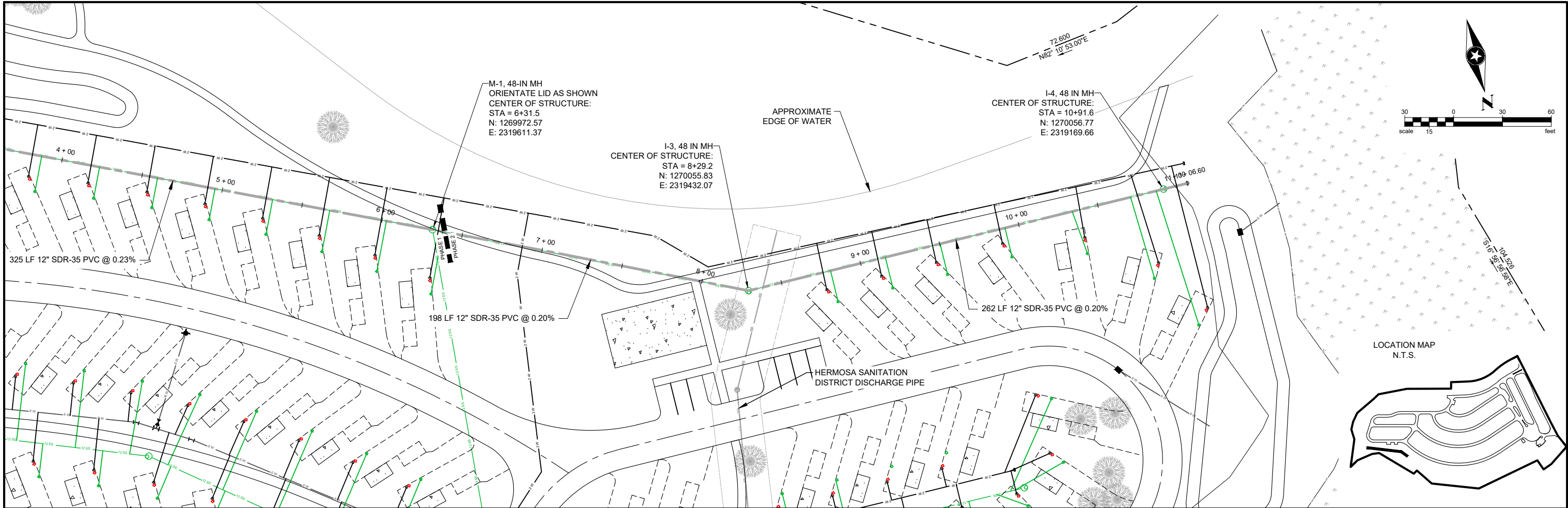
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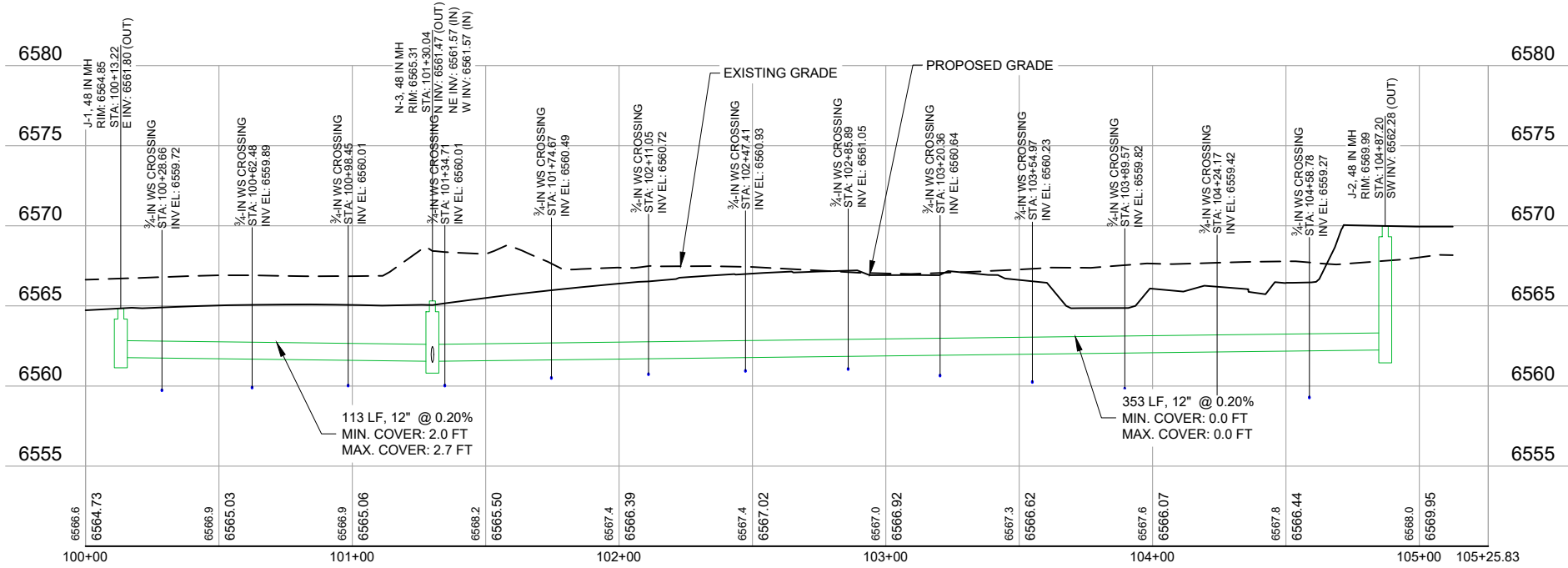
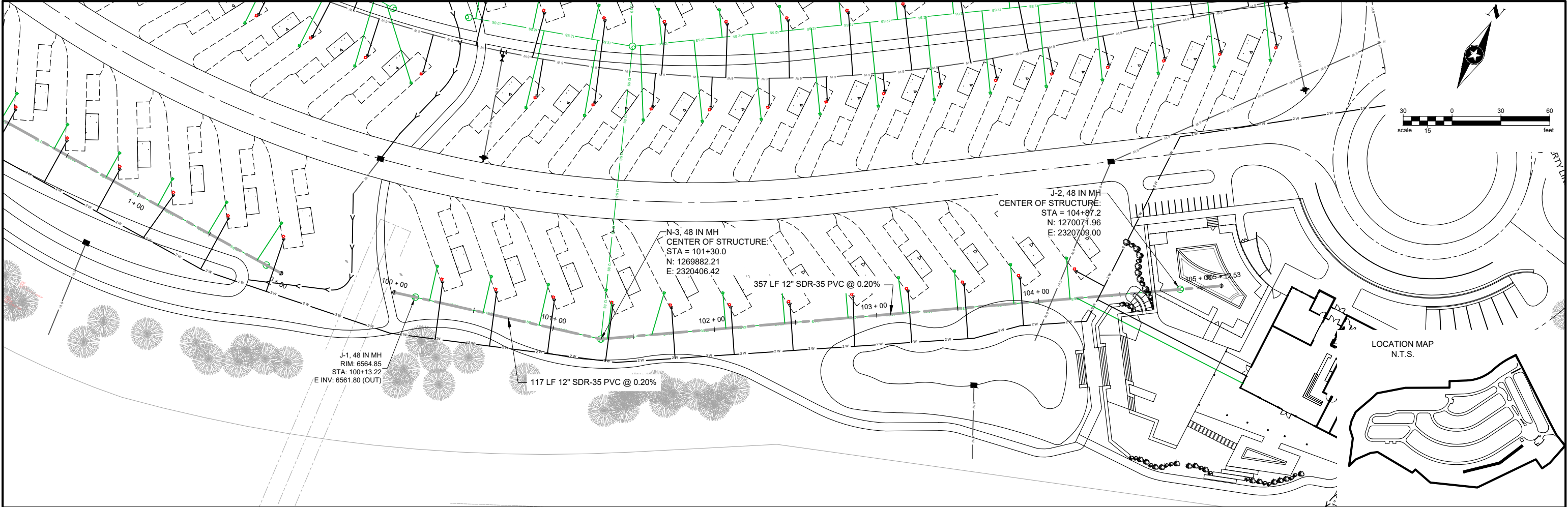


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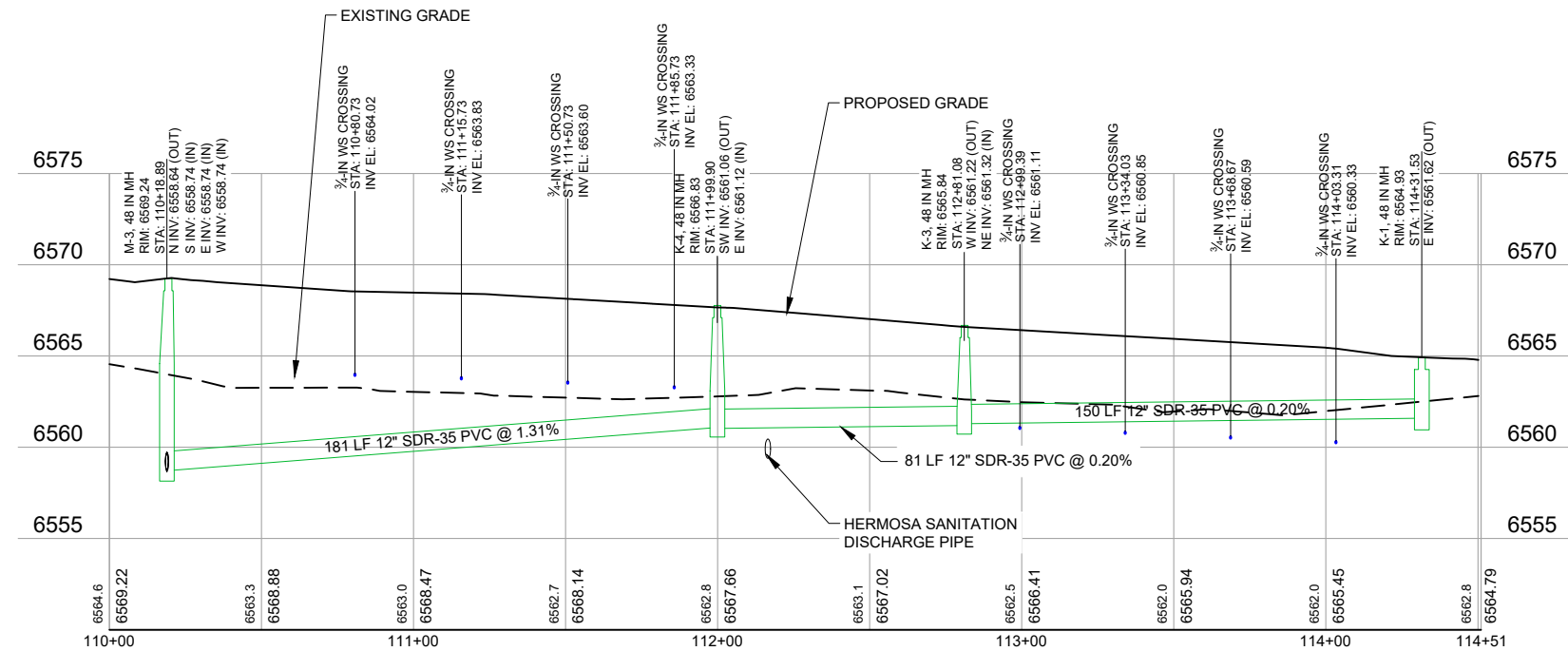
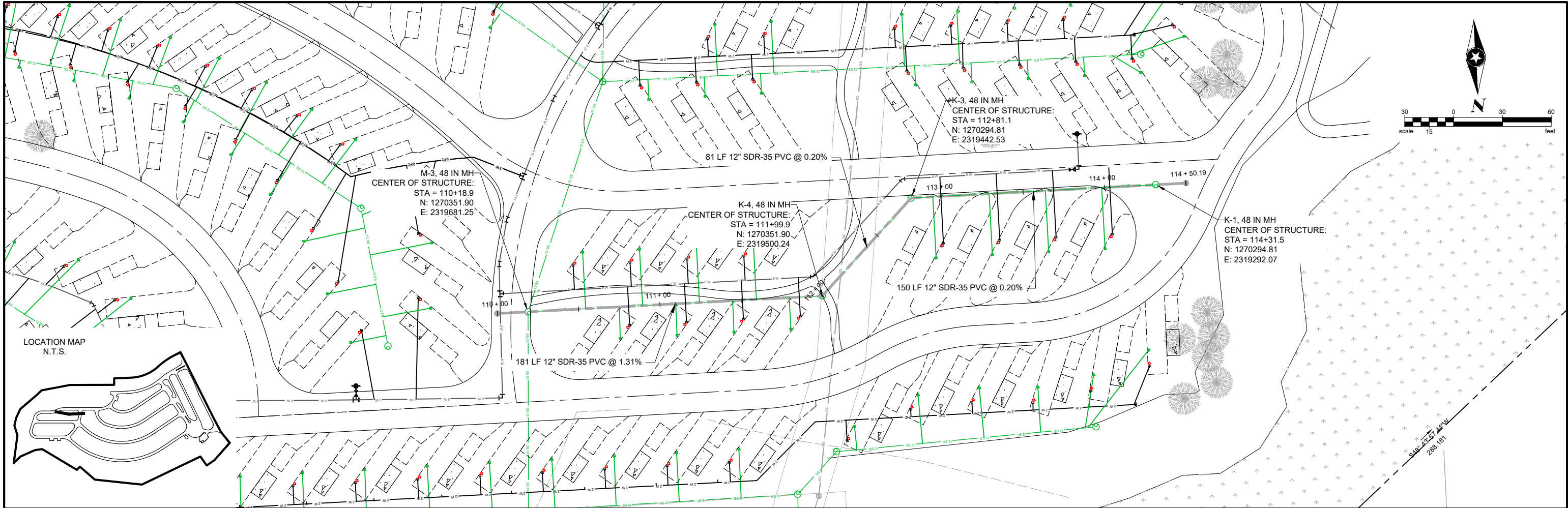


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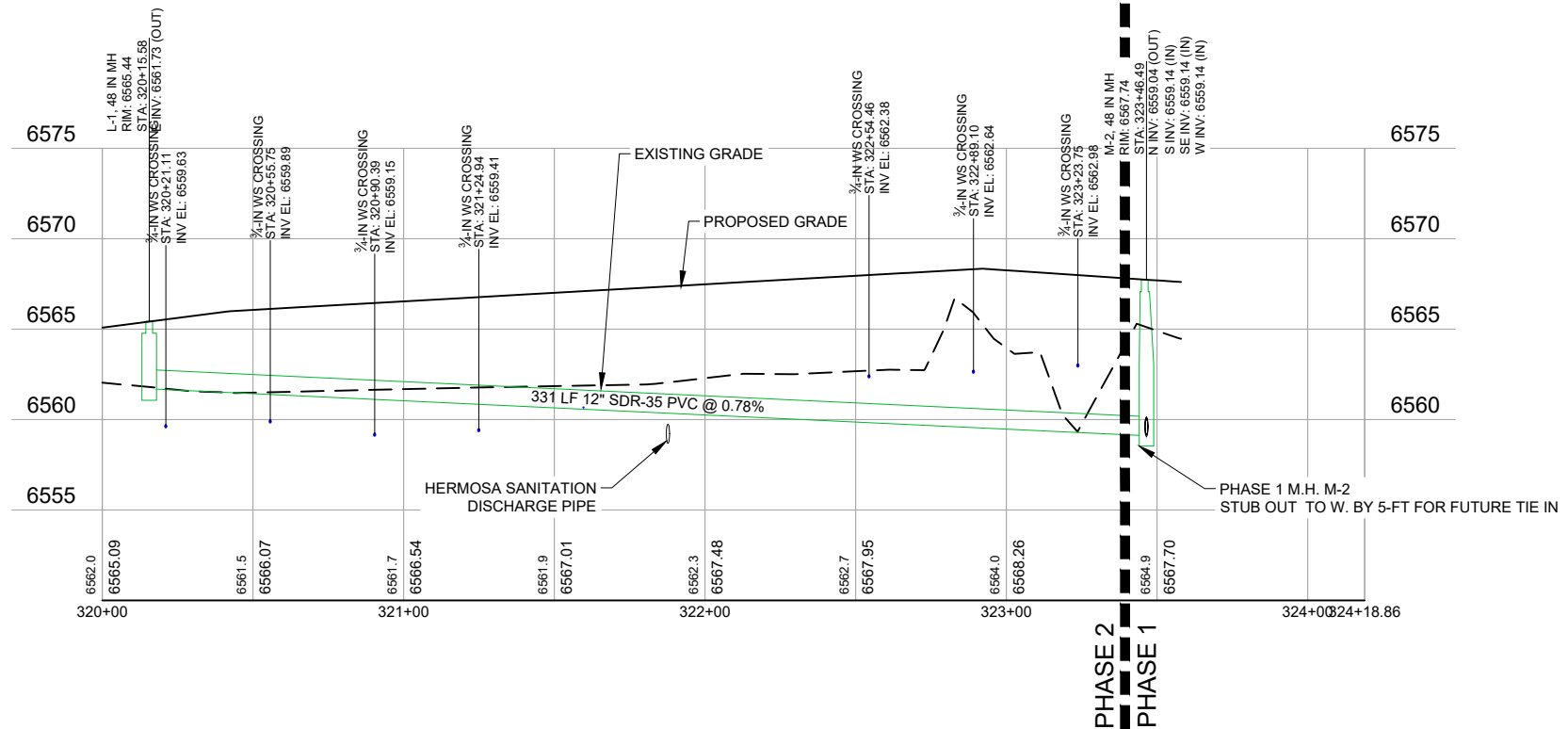
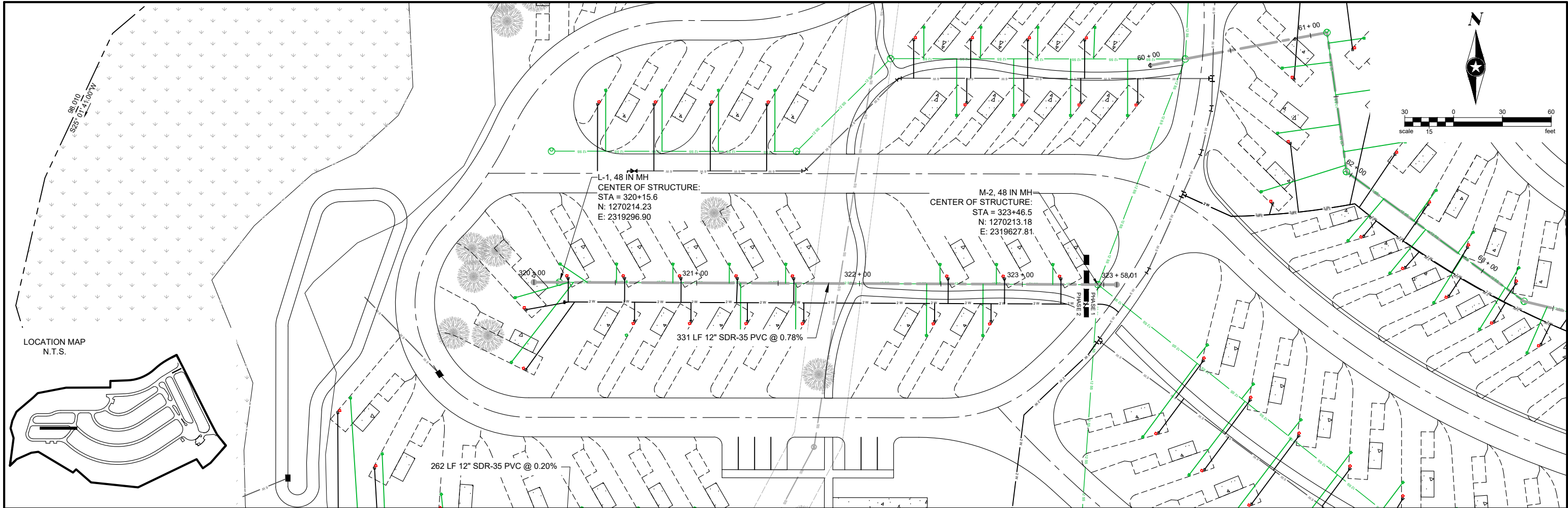




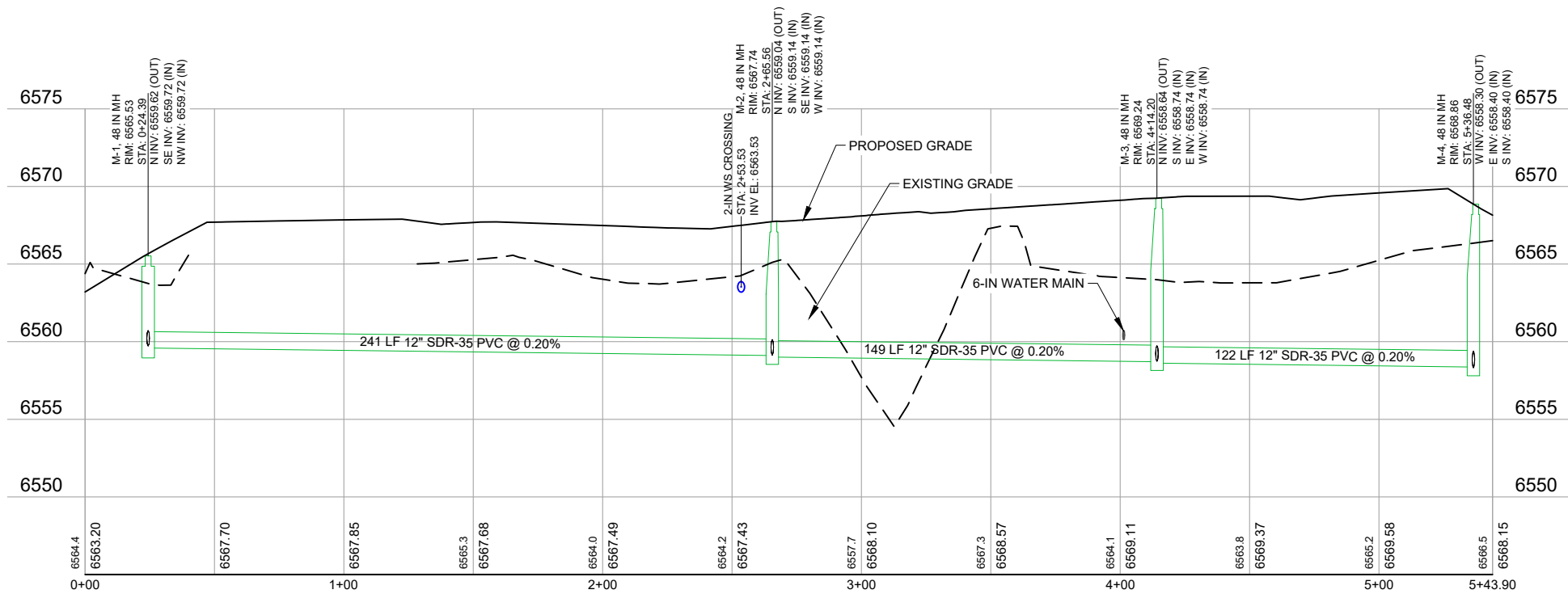
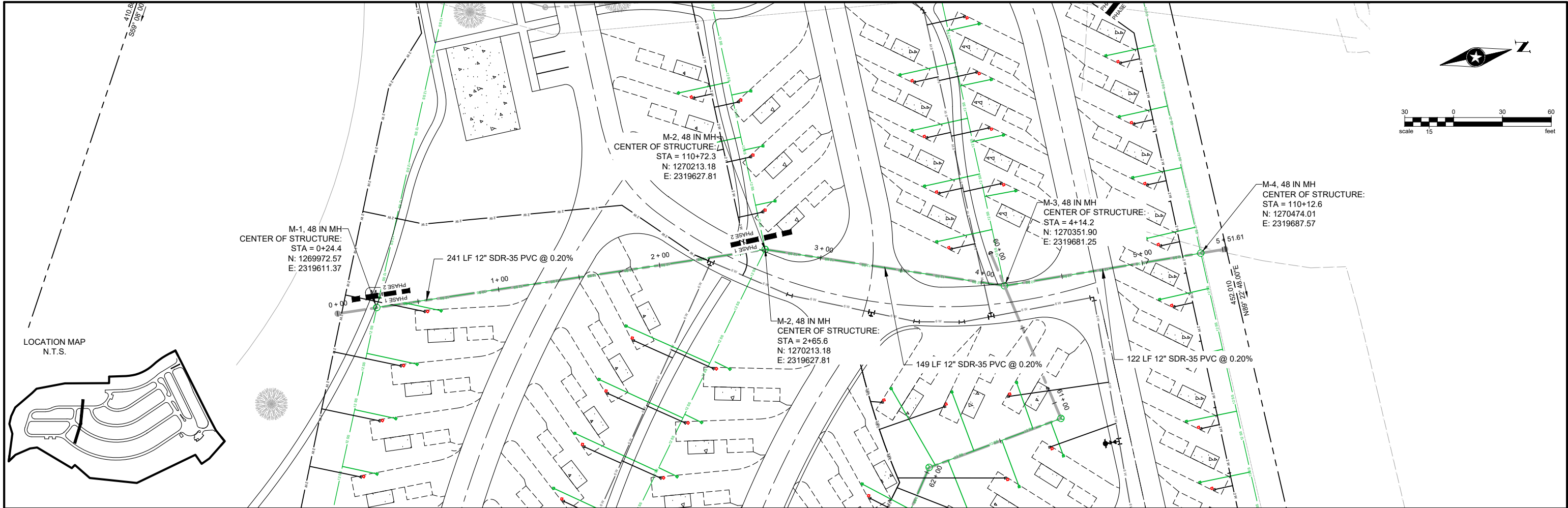
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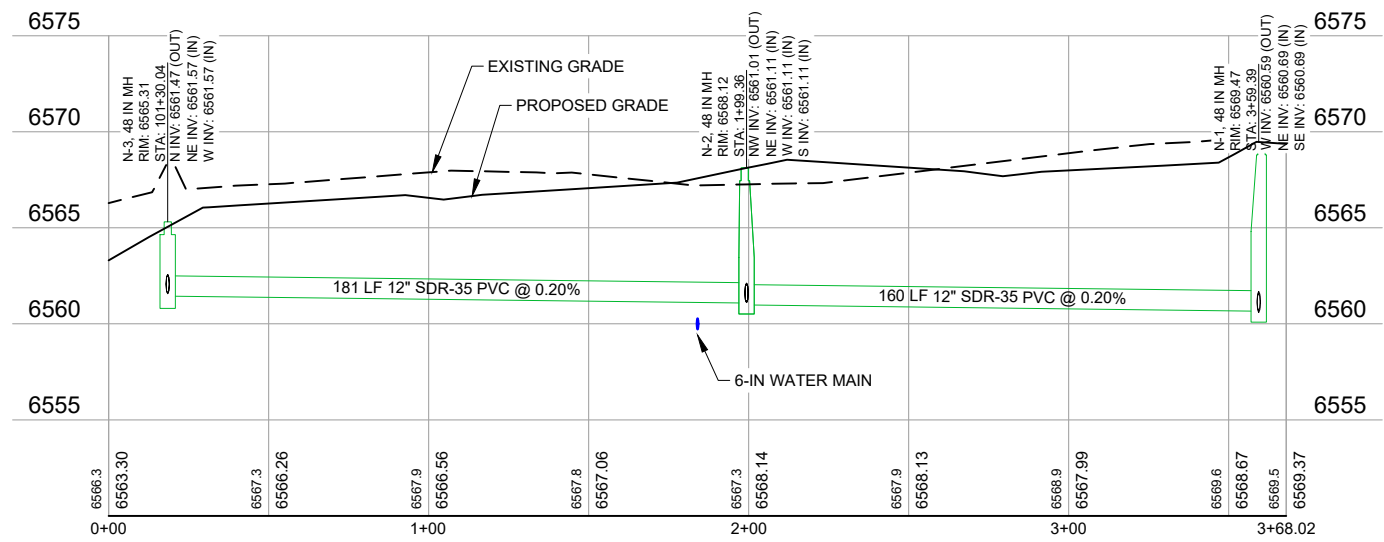
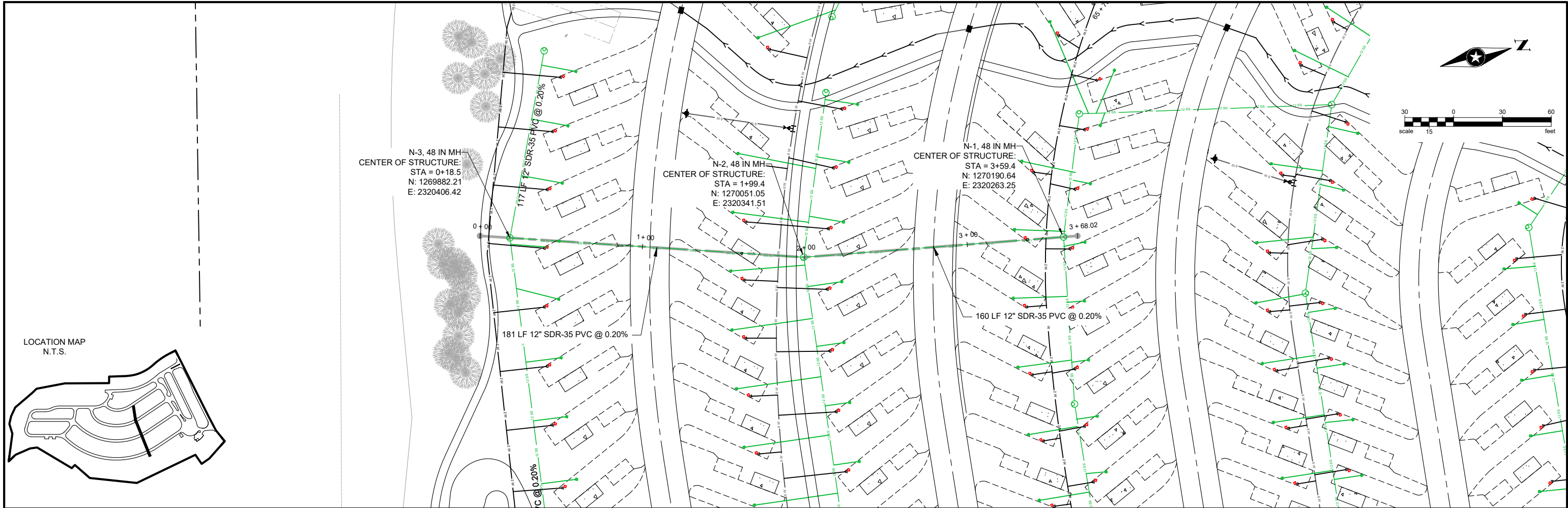
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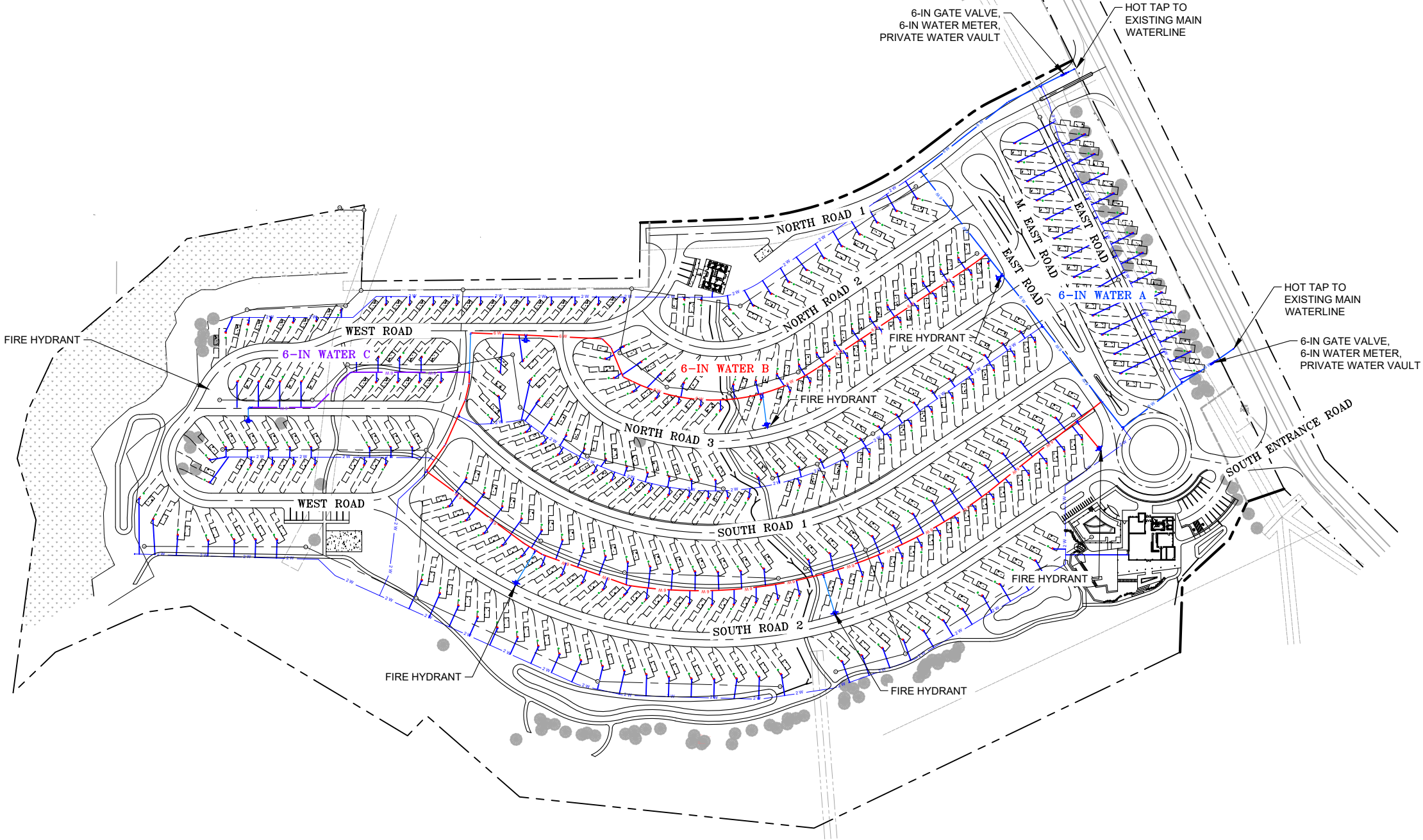
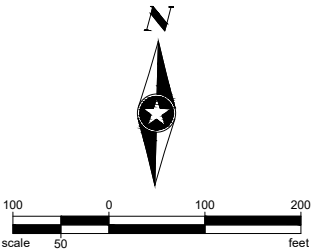


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ALIGNMENT	SHEET #
6-IN WATER A	49 TO 50
6-IN WATER B	51 TO 53
6-IN WATER C	54

NOTE: 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE. PIPE TYPE: C900, HDPE. BOTH WATER LINES ARE TO BE 150 PSI, AWWA COMPLIANT PVC



Save: 1/17/2025 2:34 PM scollins Plot: 1/23/2025 11:44 AM \\sehic.com\panzurap\p\projects\PTIR\OBRE\168892\5-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet_Village Camp 168892_WATER KEY 2.dwg

SEH Project	168892	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	SC/CM						
Designed By	TM						
Checked By	SW						



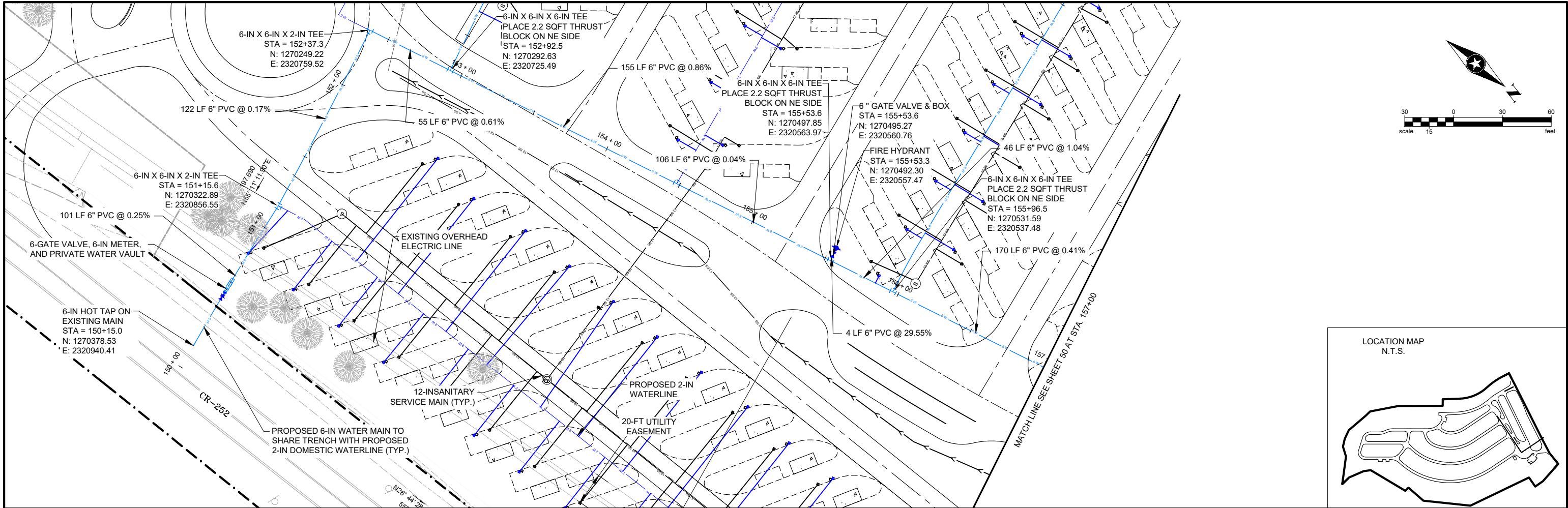
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

TRAVIS MOONEY
DATE 01/17/2025
LICENSE NO. 0051259

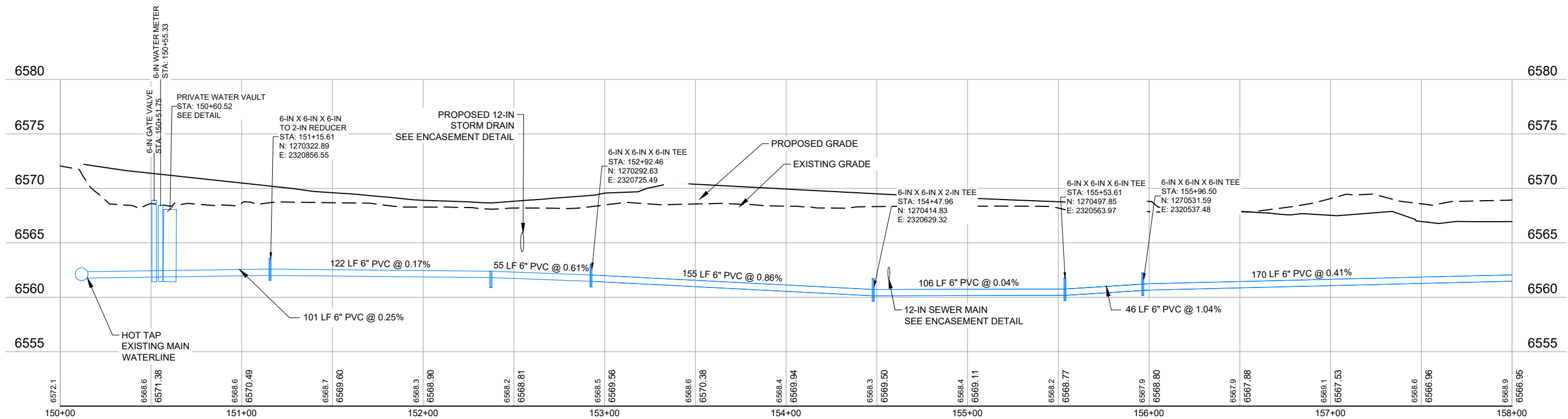
VILLAGE CAMP DURANGO
DURANGO, COLORADO

WATER KEY

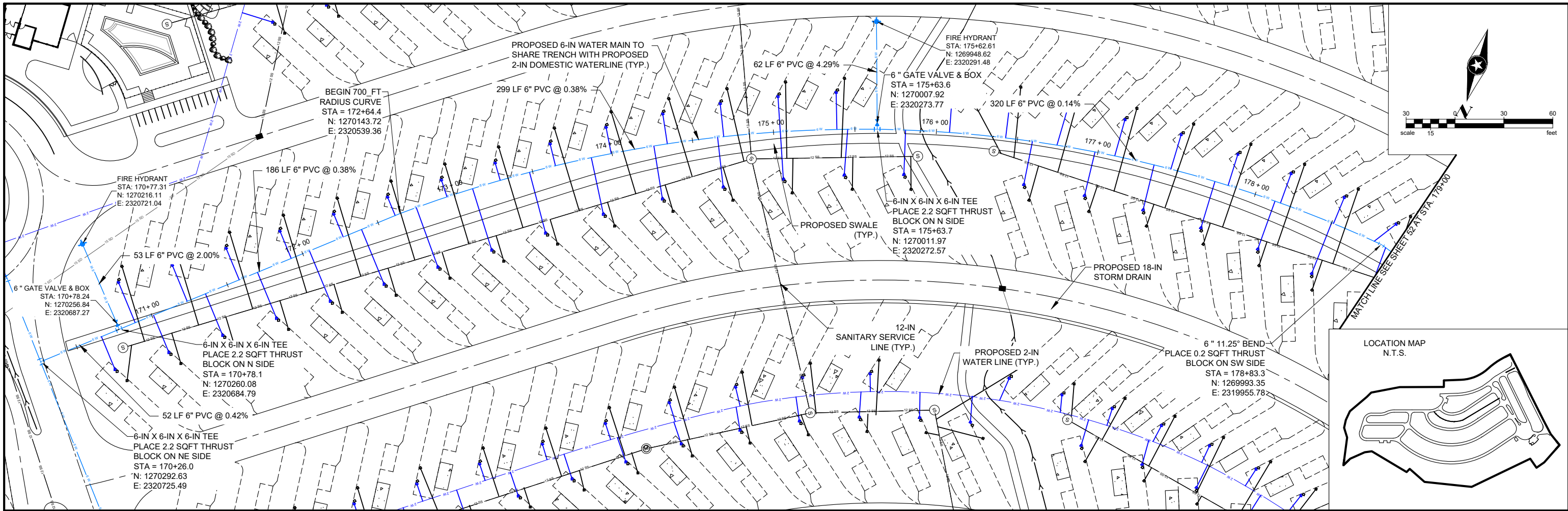
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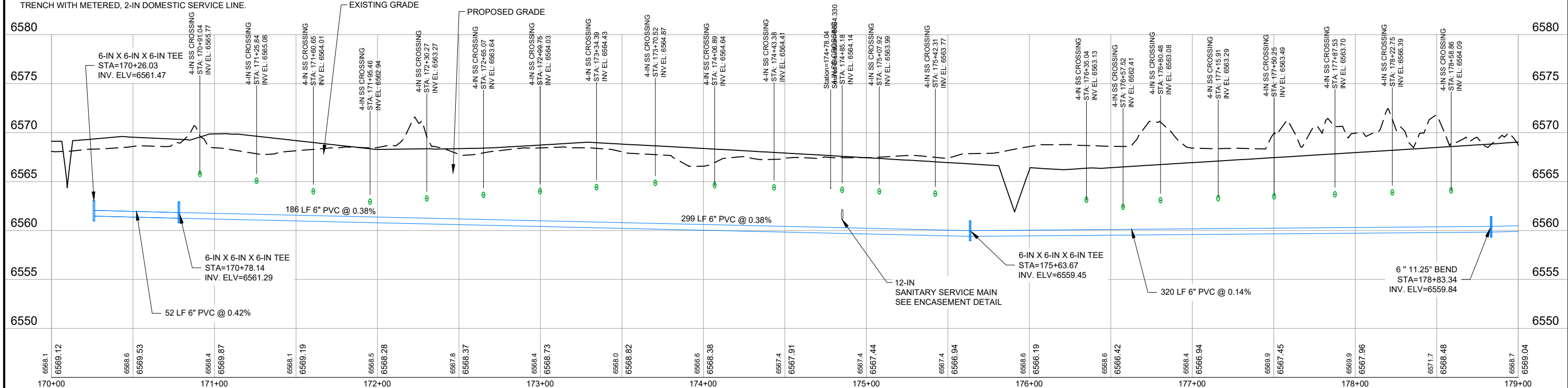
NOTE: 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.



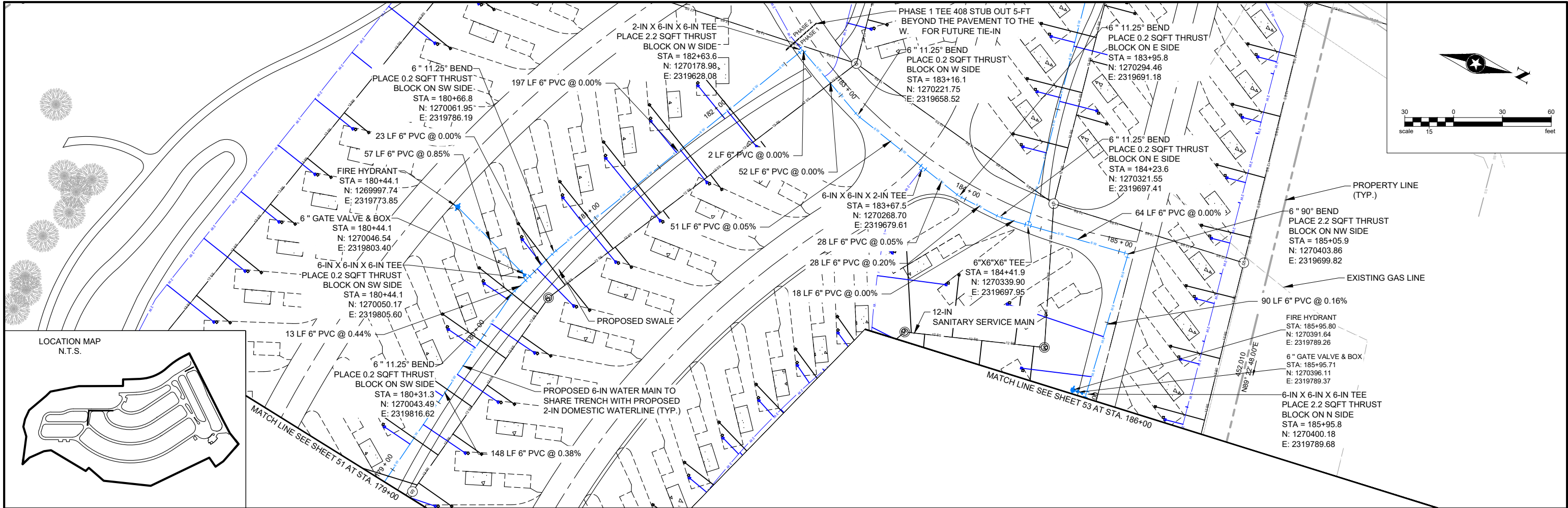
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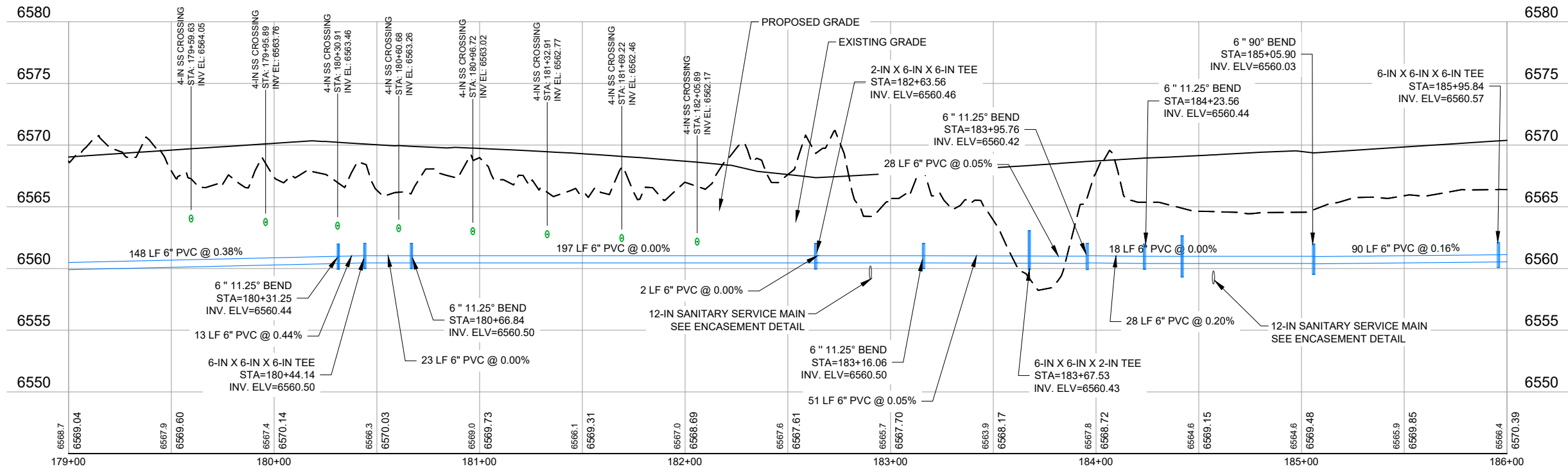
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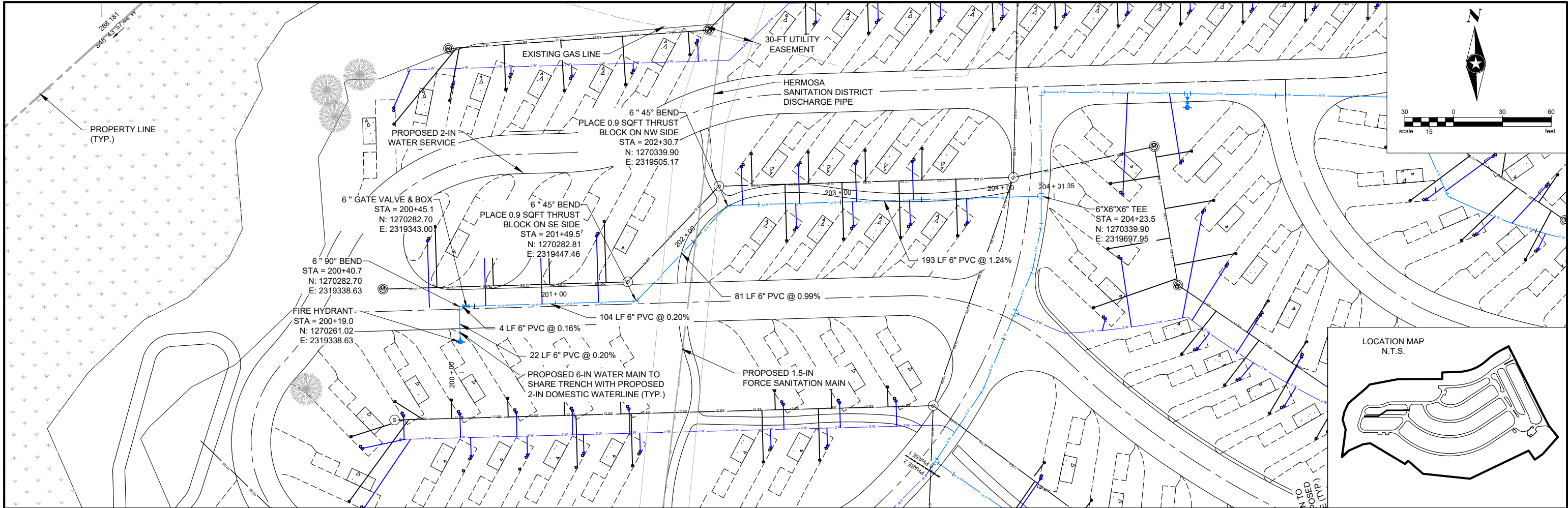
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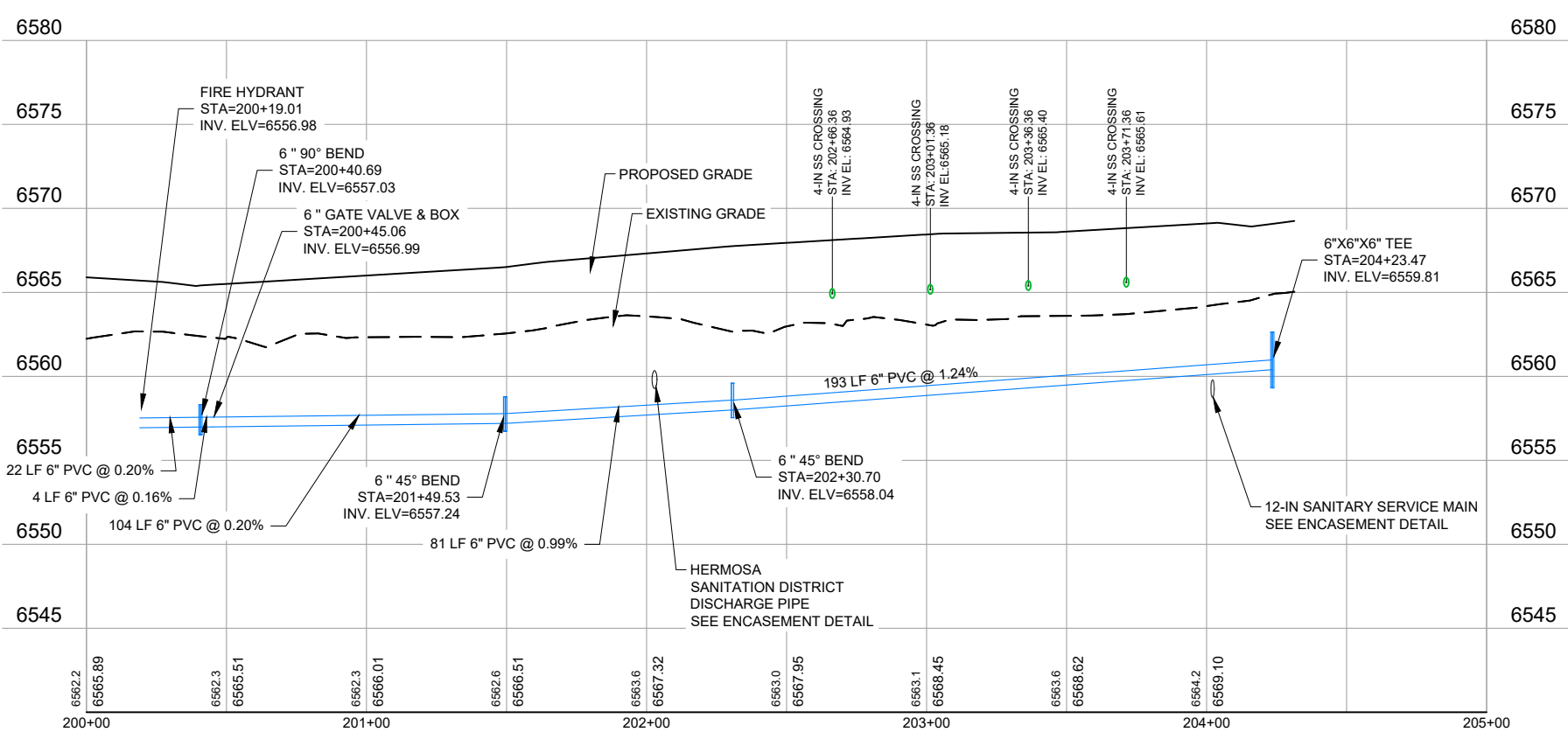
NOTE: 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.



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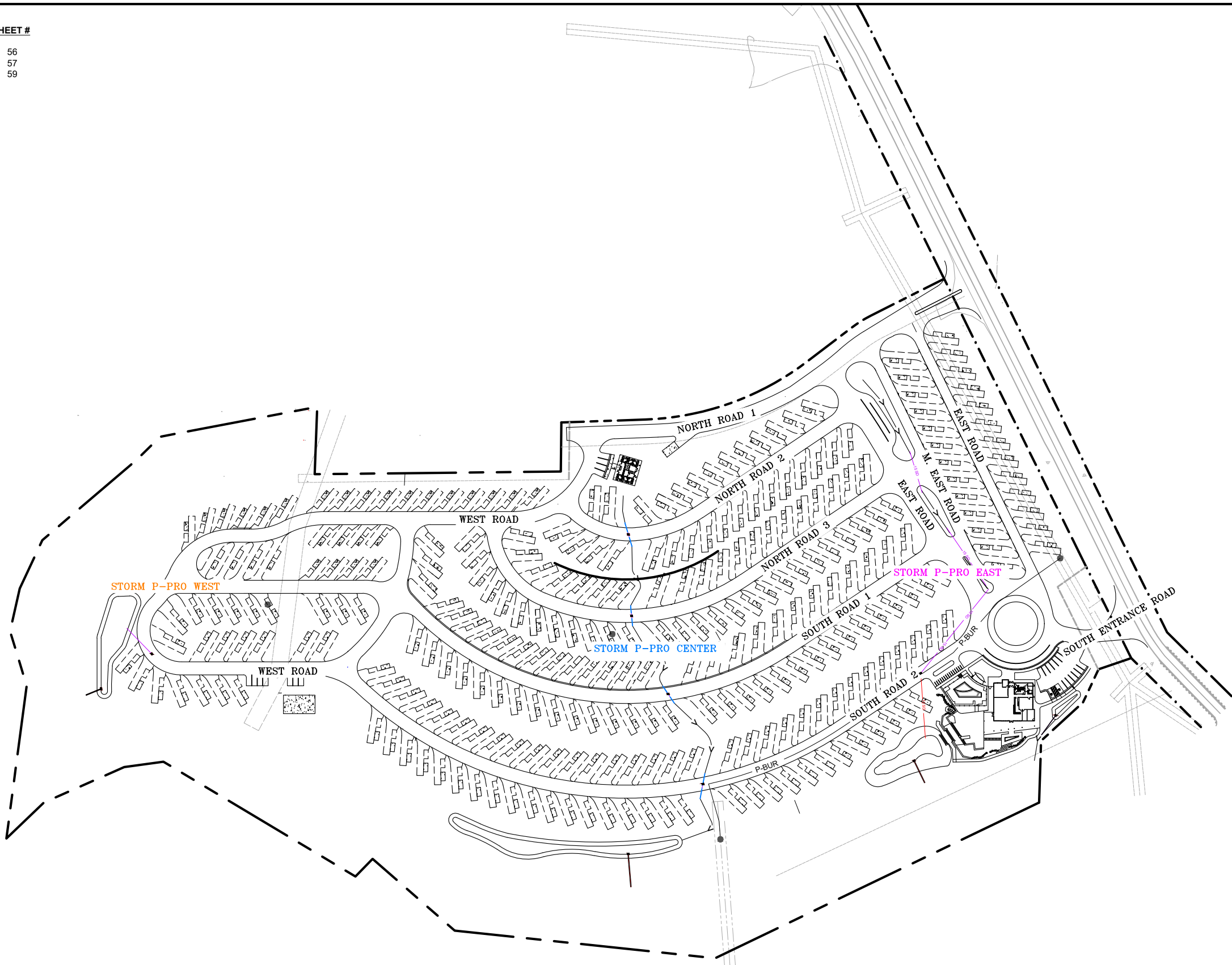
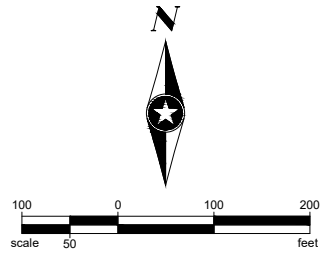


NOTE: 6-IN WATERLINE IS UNMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.



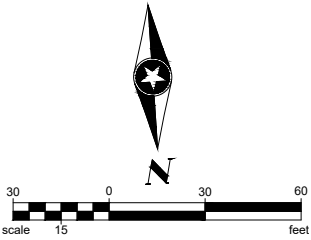
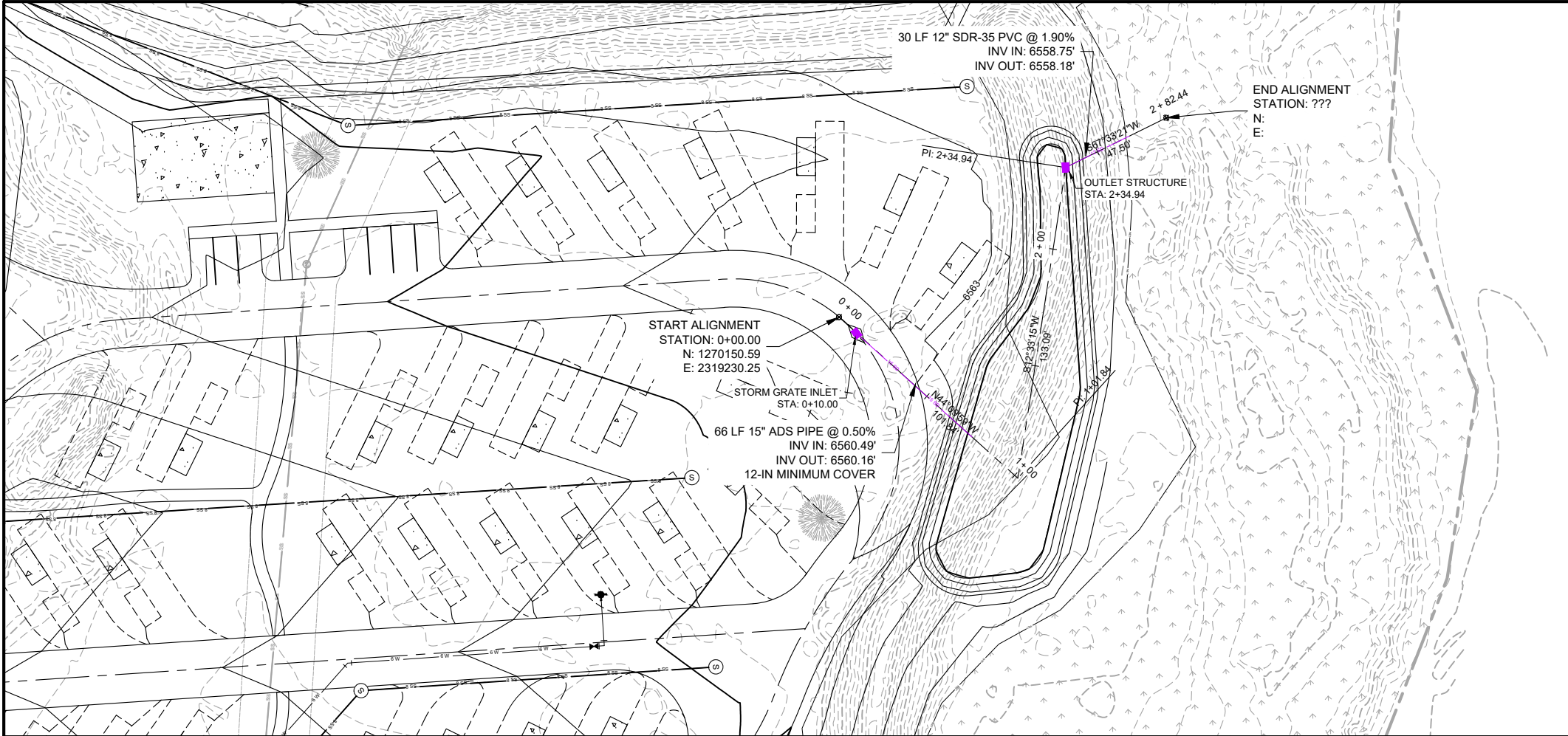
ALIGNMENT
STORM WEST 1
STORM CENTER
STORM EAST

SHEET #
56
57
59

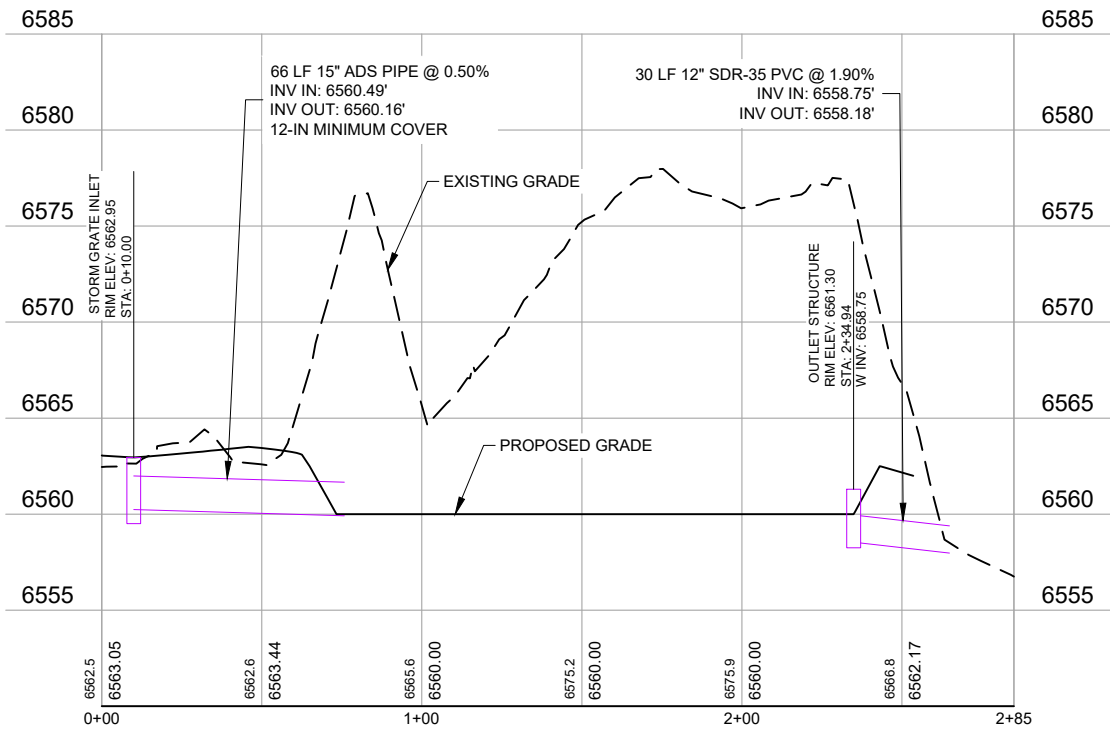
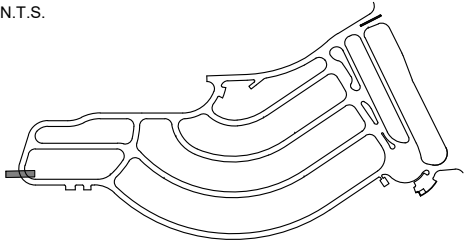


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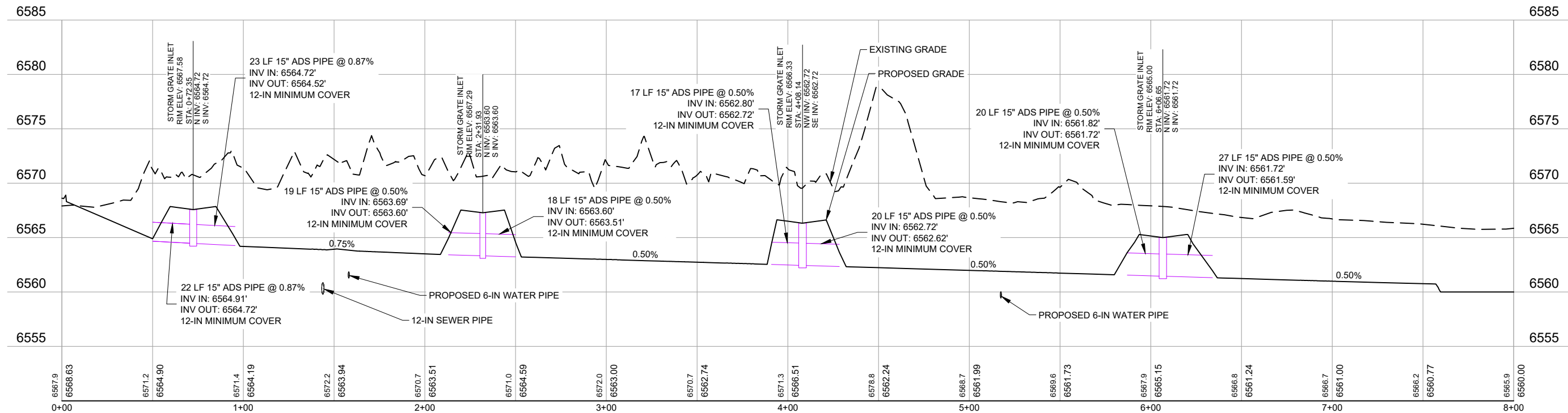
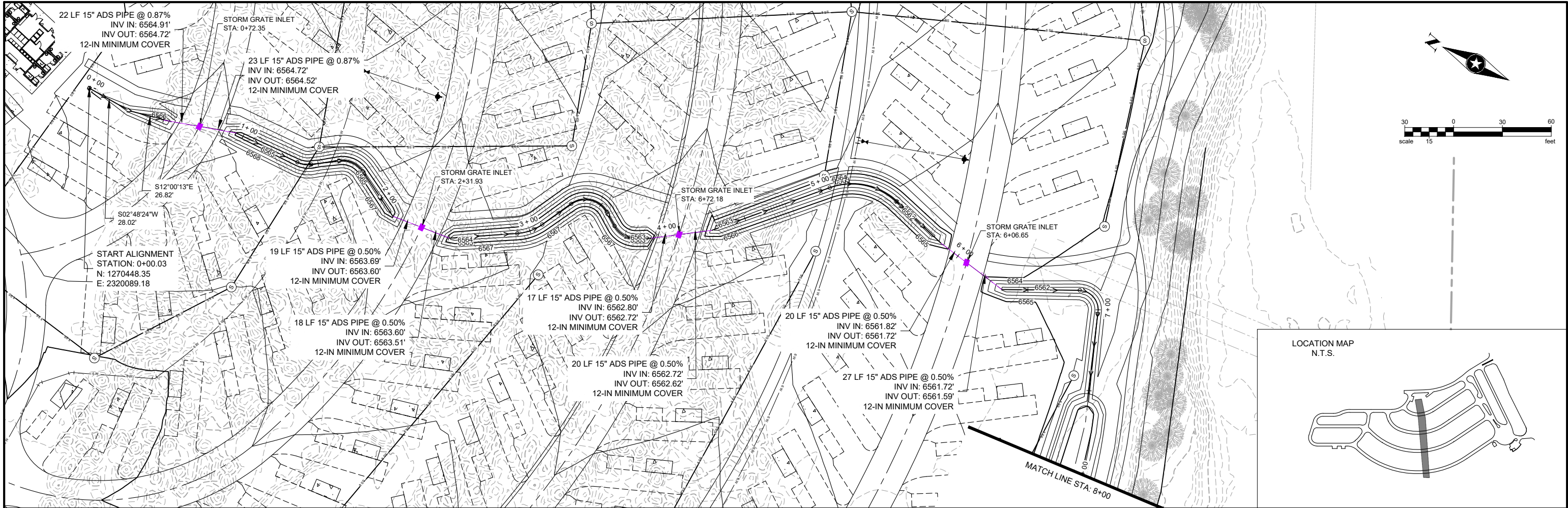
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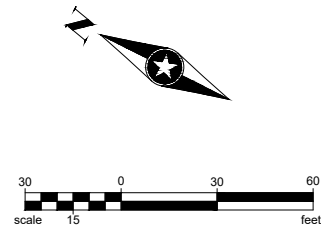


LOCATION MAP
N.T.S.

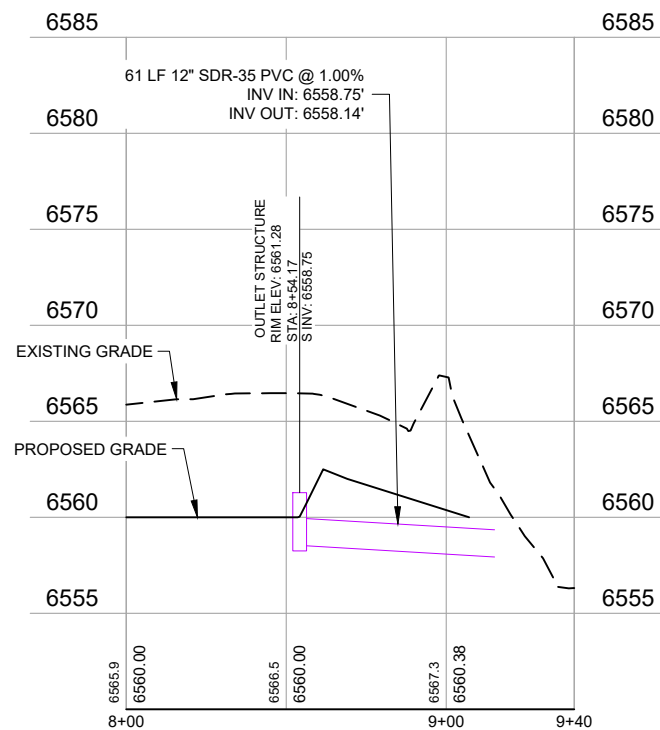
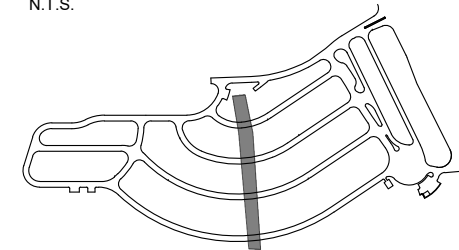


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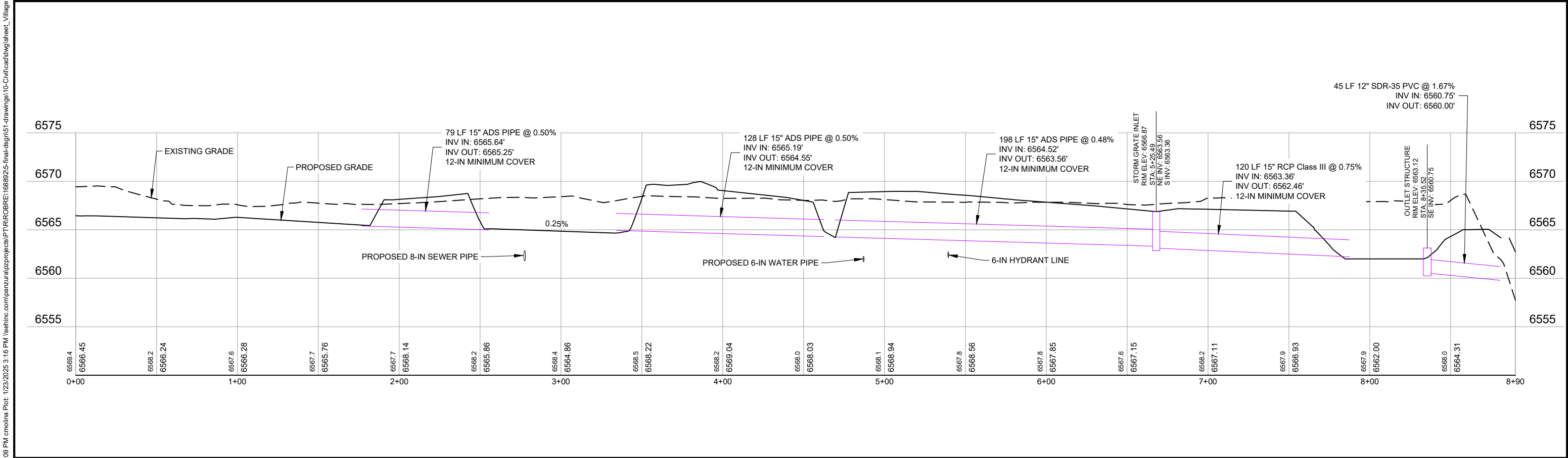
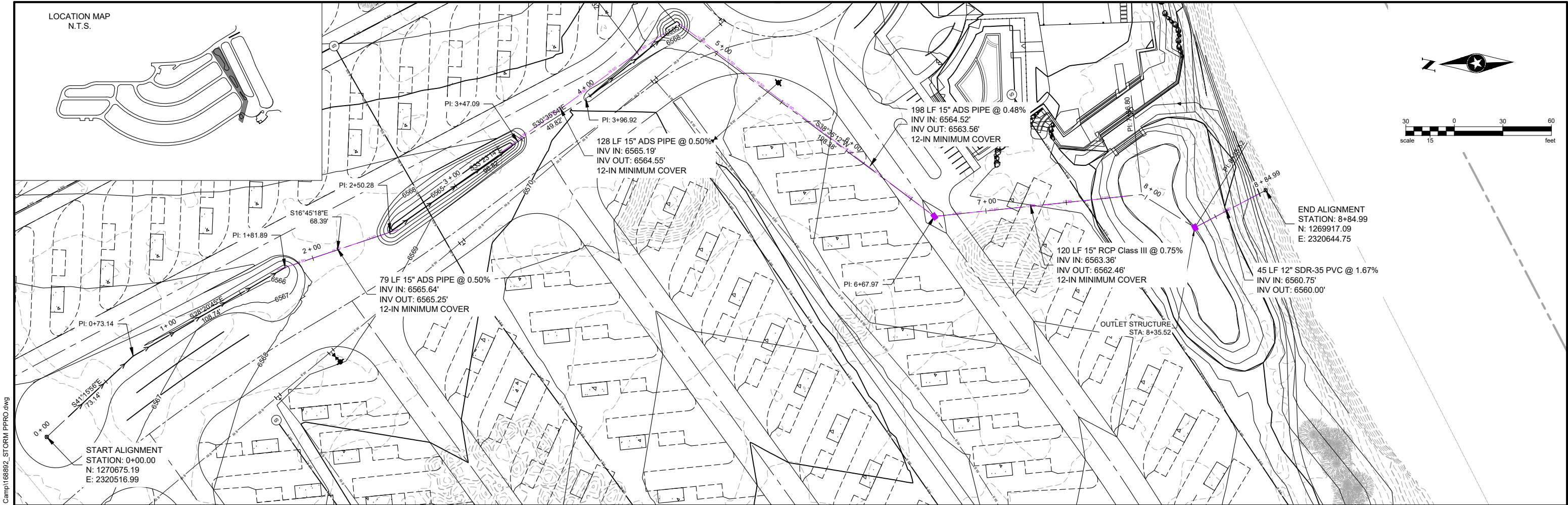




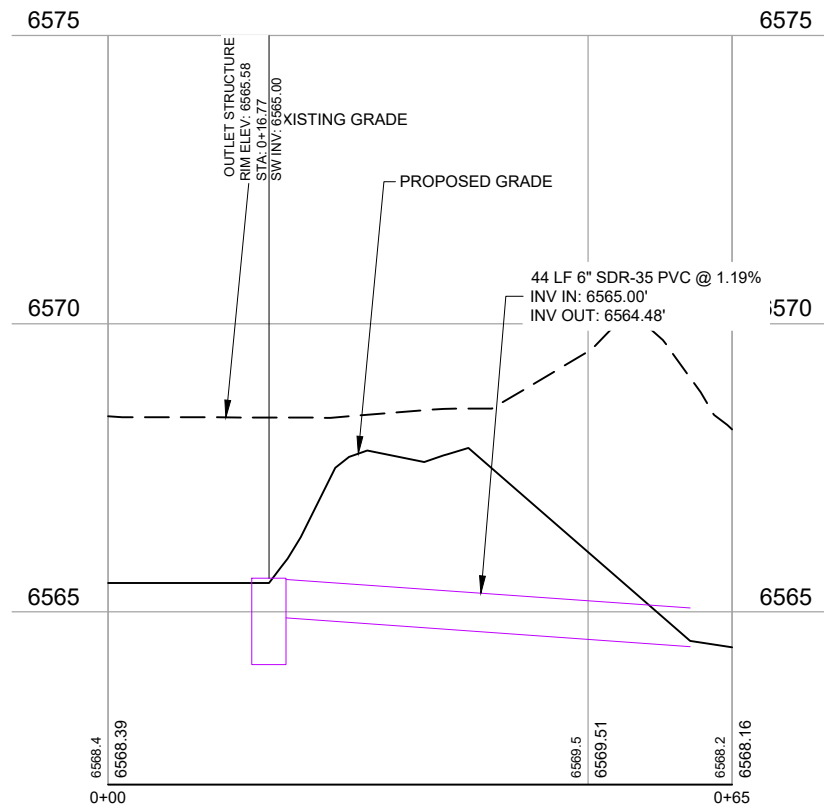
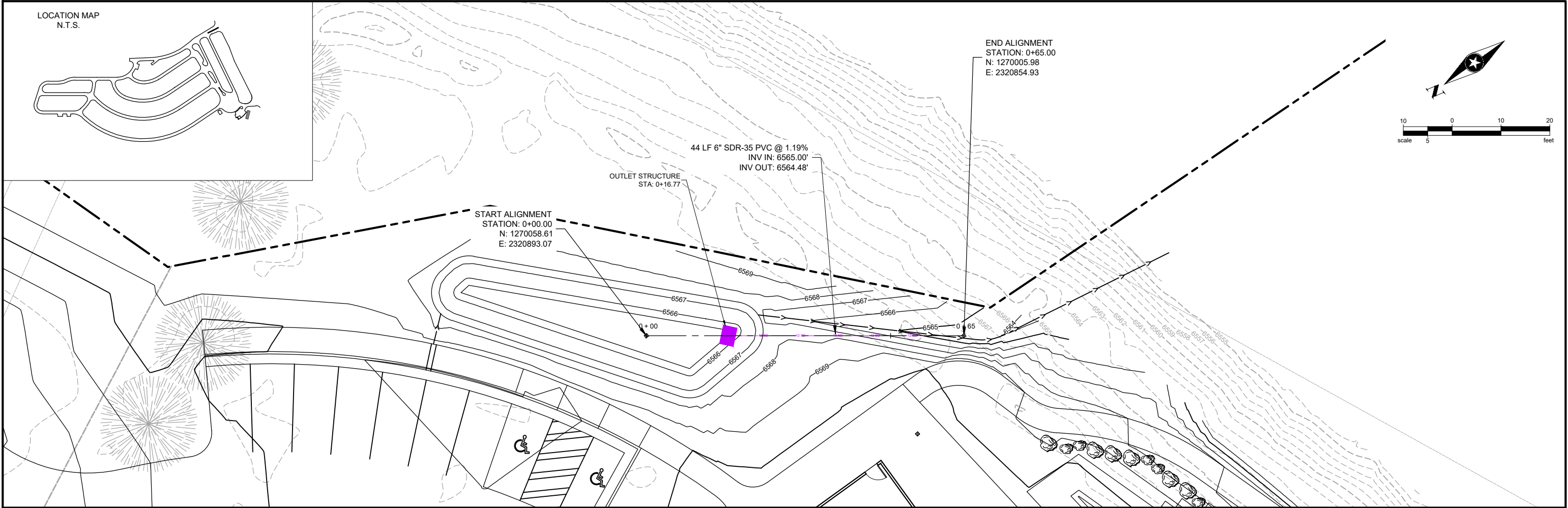
LOCATION MAP
N.T.S.



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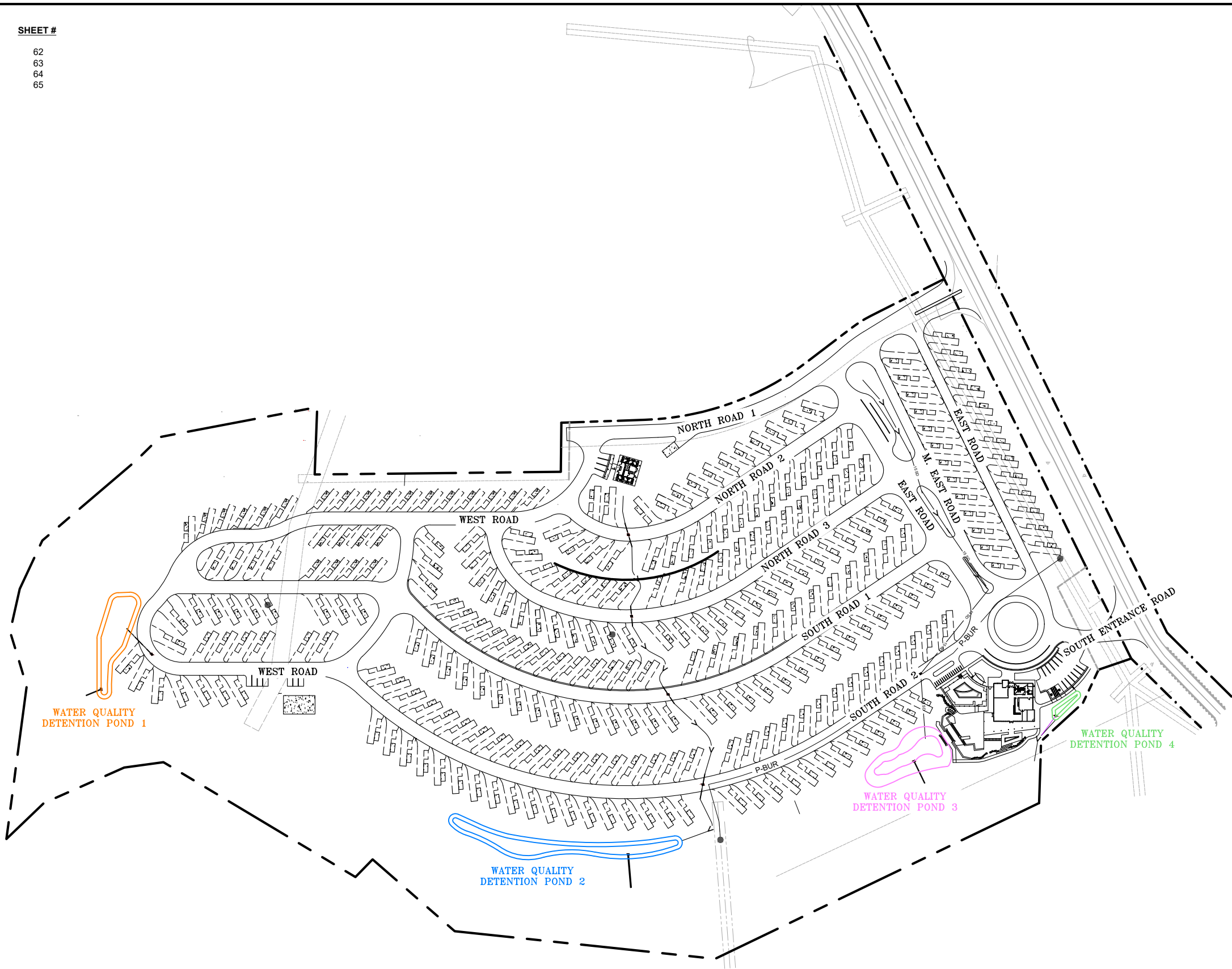
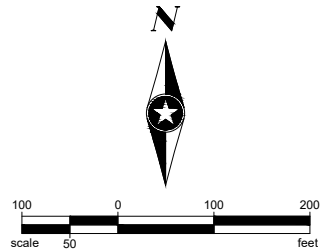


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POND	SHEET #
WATER QUALITY DETENTION POND 1	62
WATER QUALITY DETENTION POND 2	63
WATER QUALITY DETENTION POND 3	64
WATER QUALITY DETENTION POND 4	65



SEH Project	168892	Rev. #	Revision Issue Description	Date	Rev. #	Revision Issue Description	Date
Drawn By	SC/CM						
Designed By	TM						
Checked By	SW						



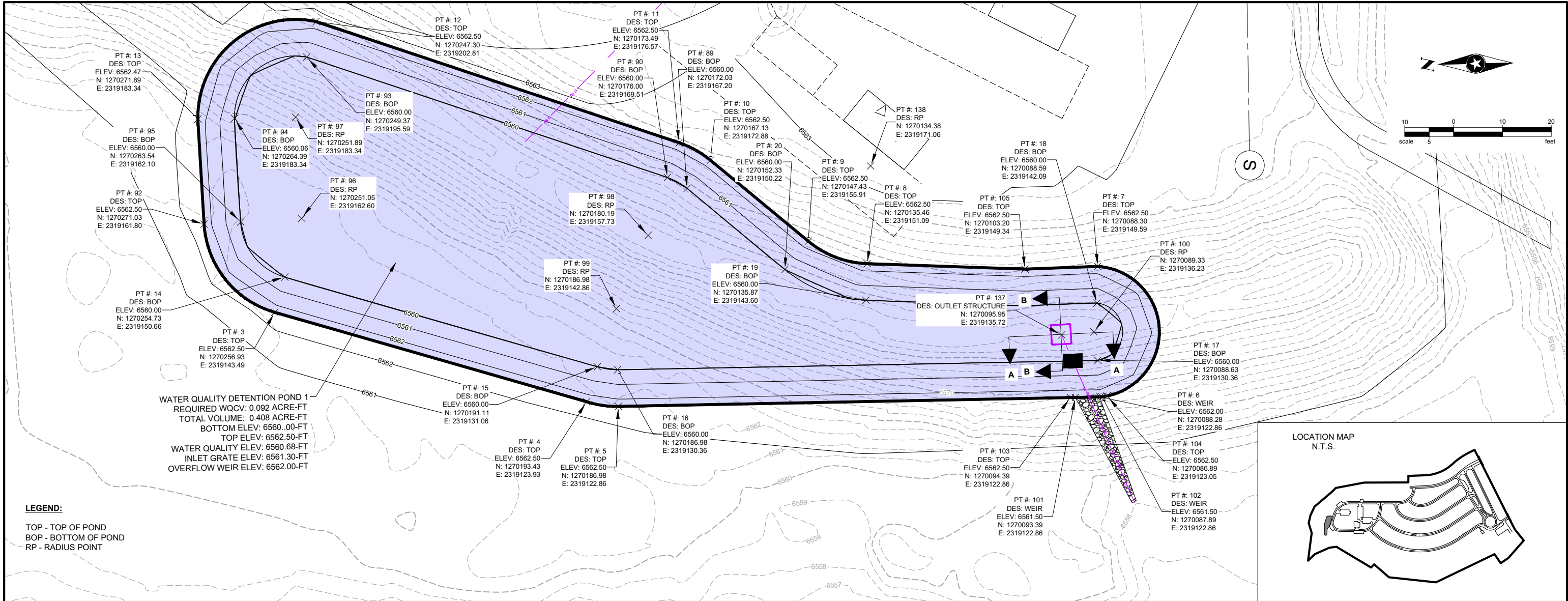
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

TRAVIS MOONEY
DATE 01/17/2025
LICENSE NO. 0051259

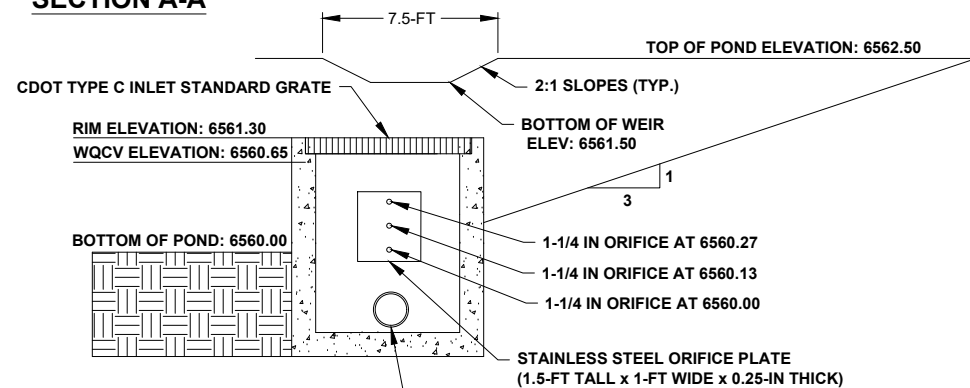
VILLAGE CAMP DURANGO
DURANGO, COLORADO

POND KEY

Save: 1/23/2025 10:50 AM emolina Plot: 1/23/2025 11:51 AM \\sehinc.com\panzuraj\projects\PT\ROBRE\168892\5-final-dsgn\51-drawings\10-Civil\dwg\sheet_Village Camp\168892_POND DETAILS.dwg

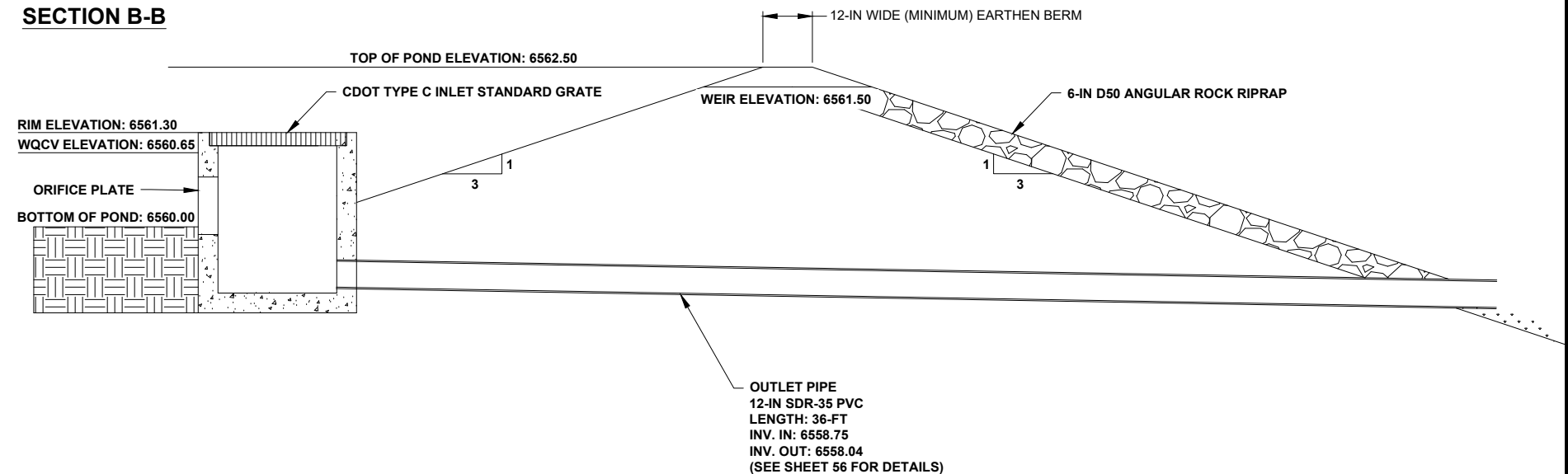


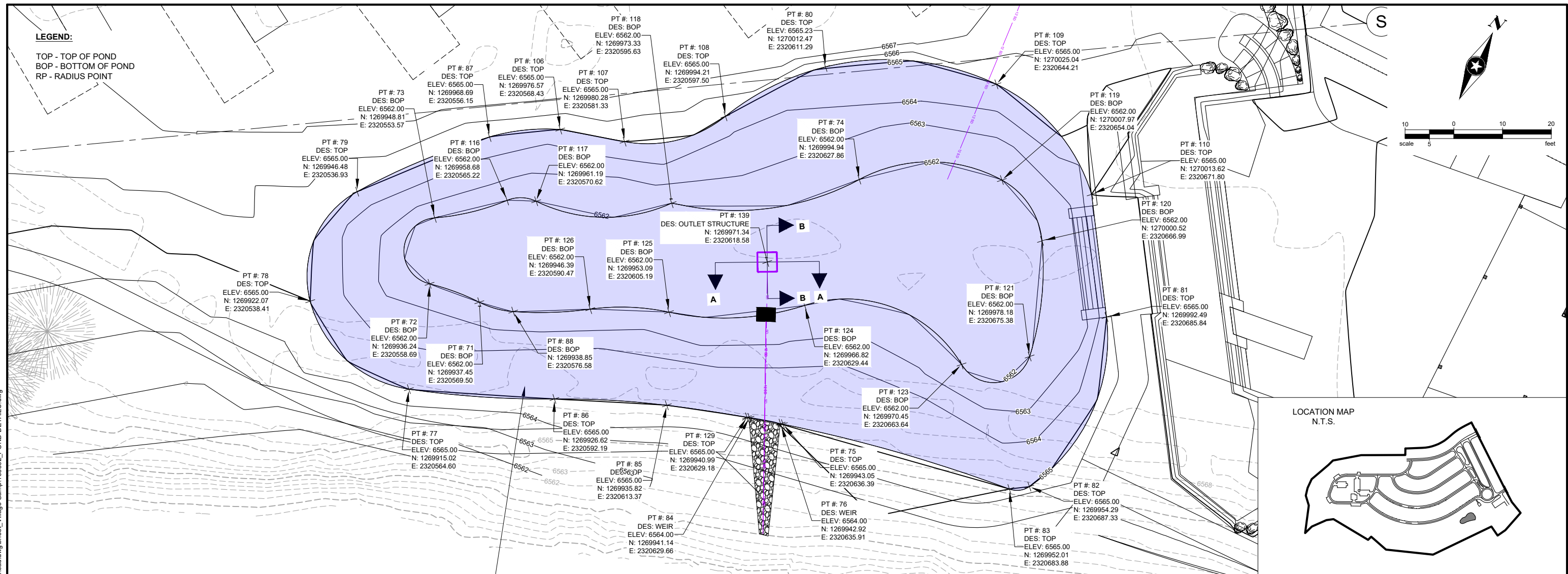
SECTION A-A



- NOTE:**
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE STAINLESS STEEL PLATES AND CONCRETE.
 2. INSTALL ORIFICE PLATES AFTER POND ELEVATIONS AND VOLUMES ARE VERIFIED.

SECTION B-B





SECTION A-A

SECTION B-B

NOTE:

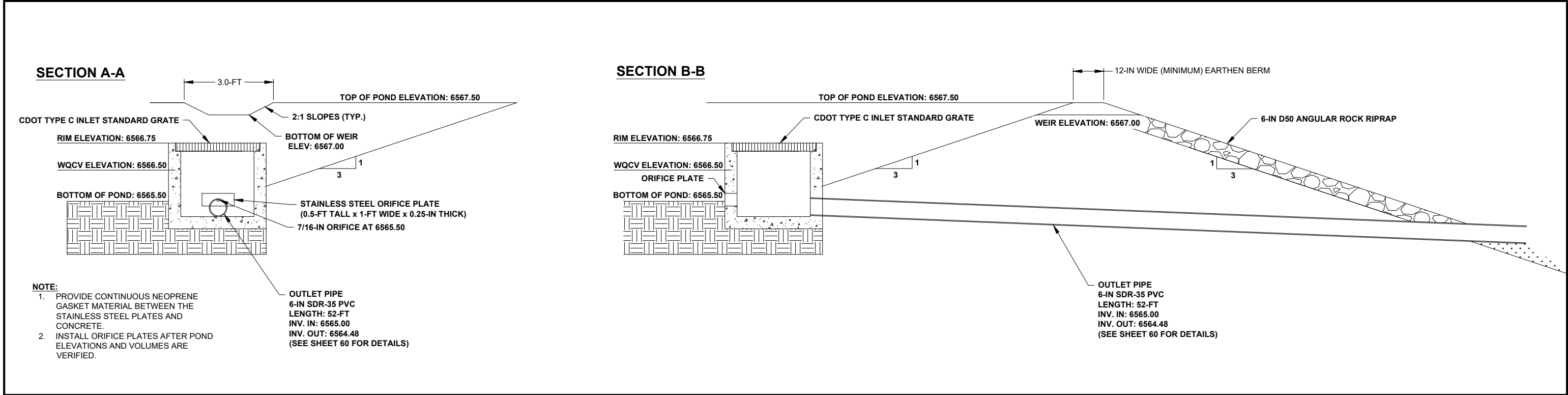
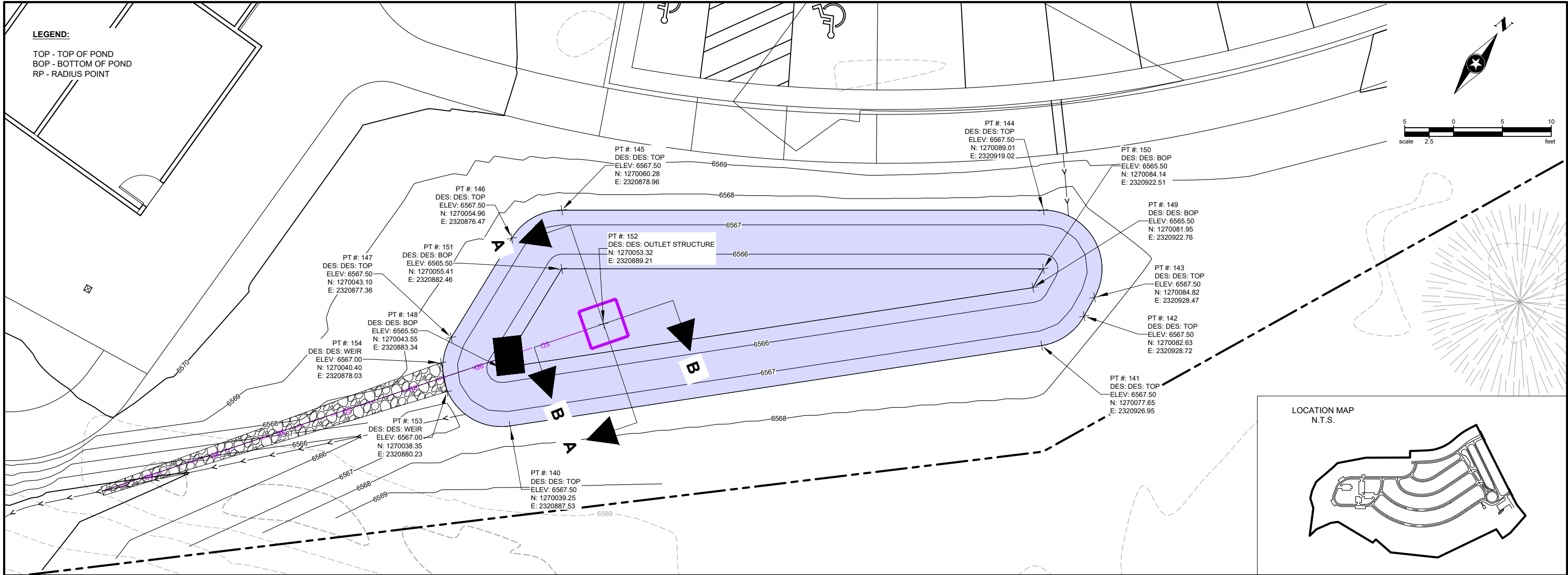
OUTLET PIPE
12-IN SDR-35 PVC
LENGTH: 54-FT
INV. IN: 6560.75
INV. OUT: 6560.00
(SEE SHEET 59 FOR DETAILS)

OUTLET PIPE
12-IN SDR-35 PVC
LENGTH: 54-FT
INV. IN: 6560.75
INV. OUT: 6560.00
(SEE SHEET 59 FOR DETAILS)

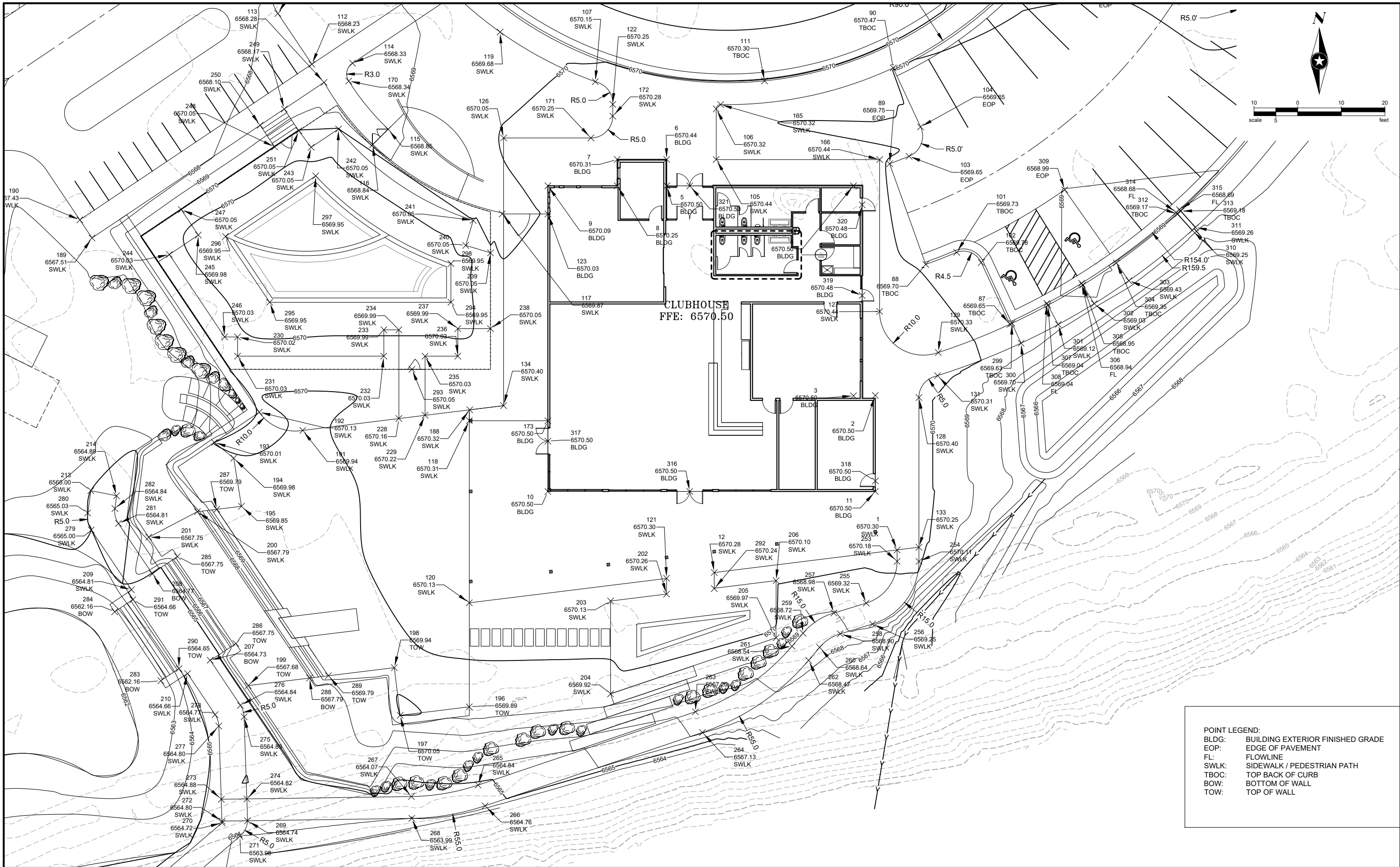
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CO.

TRAVIS MOONEY
DATE 01/17/2025 LICENSE NO. 0051259

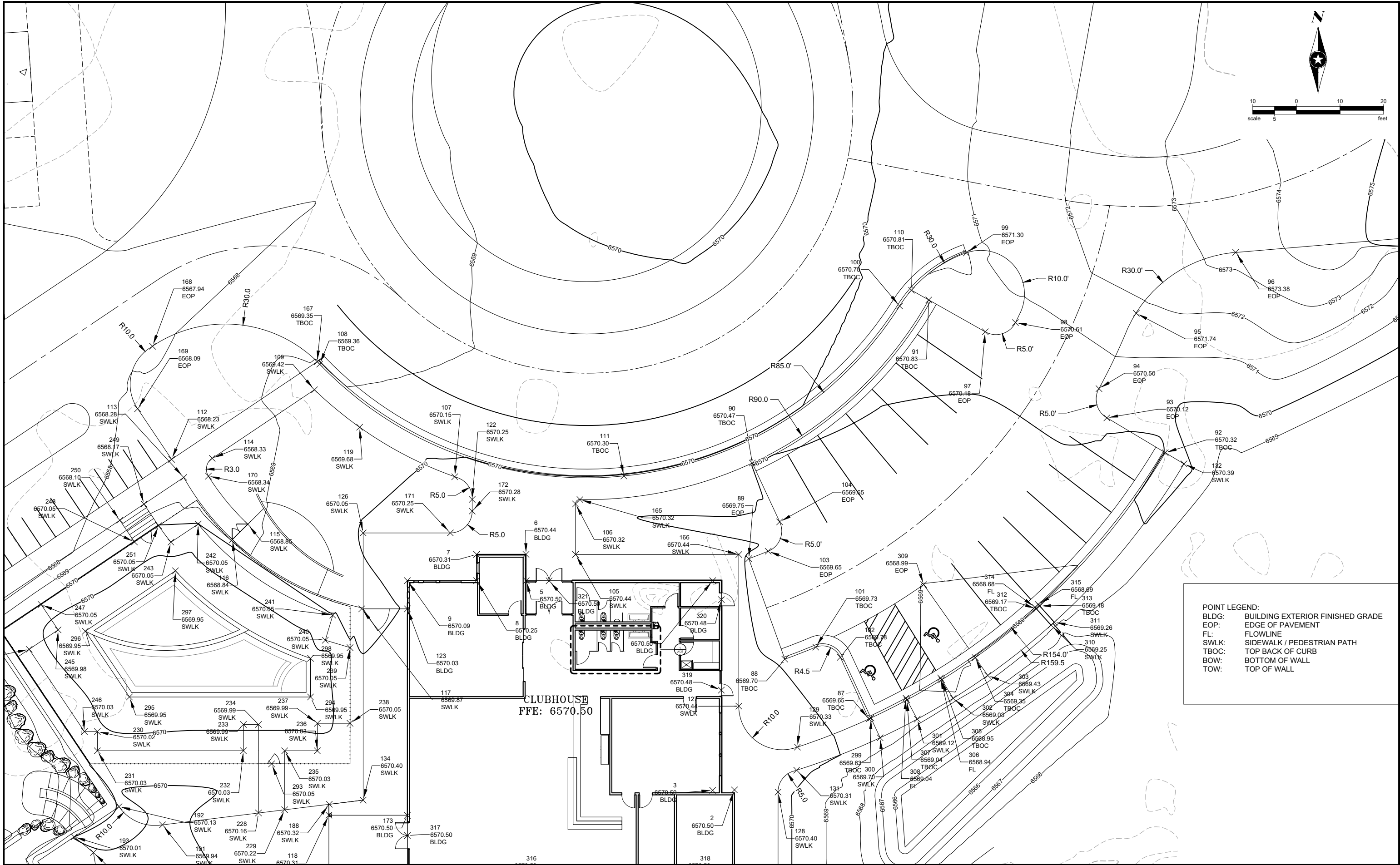
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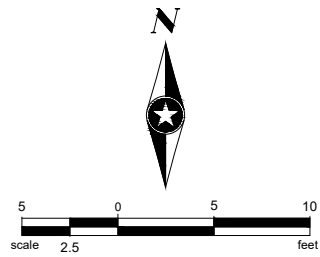
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POINT LEGEND:

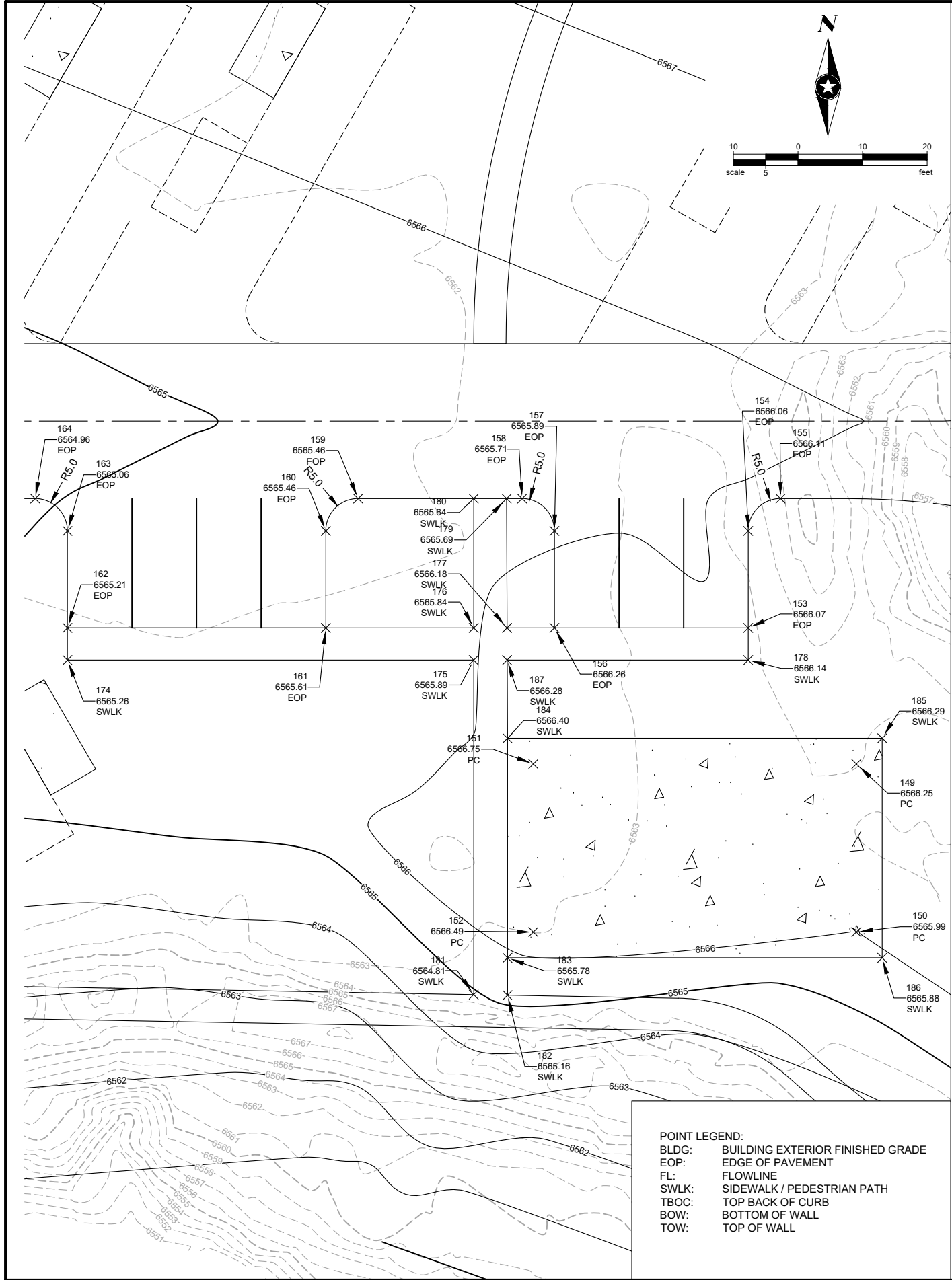
BLDG:	BUILDING EXTERIOR FINISHED GRADE
EOP:	EDGE OF PAVEMENT
FL:	FLOWLINE
SWLK:	SIDEWALK / PEDESTRIAN PATH
TBOC:	TOP BACK OF CURB
BOW:	BOTTOM OF WALL
TOW:	TOP OF WALL

Save: 1/17/2025 2:43 PM scollins Plot: 1/23/2025 11:53 AM \\sehinc.com\panzurap\p2\projects\PTNR\OBRE\168892\5-final-dgn\51-drawings\10-Civil\cad\dwg\sheet_Village Camp\168892_GRADING DETAILS.dwg



POINT LEGEND:	
BLDG:	BUILDING EXTERIOR FINISHED GRADE
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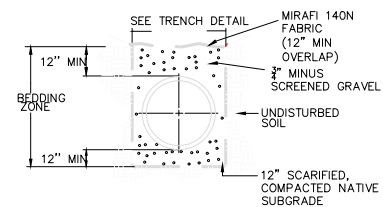
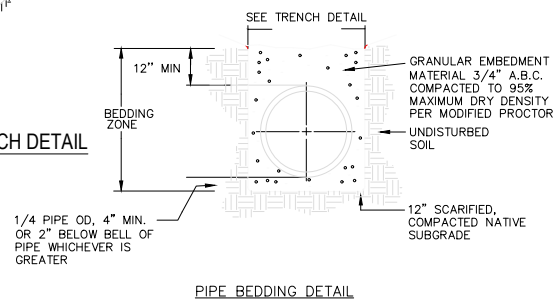
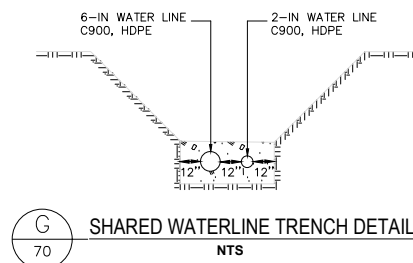
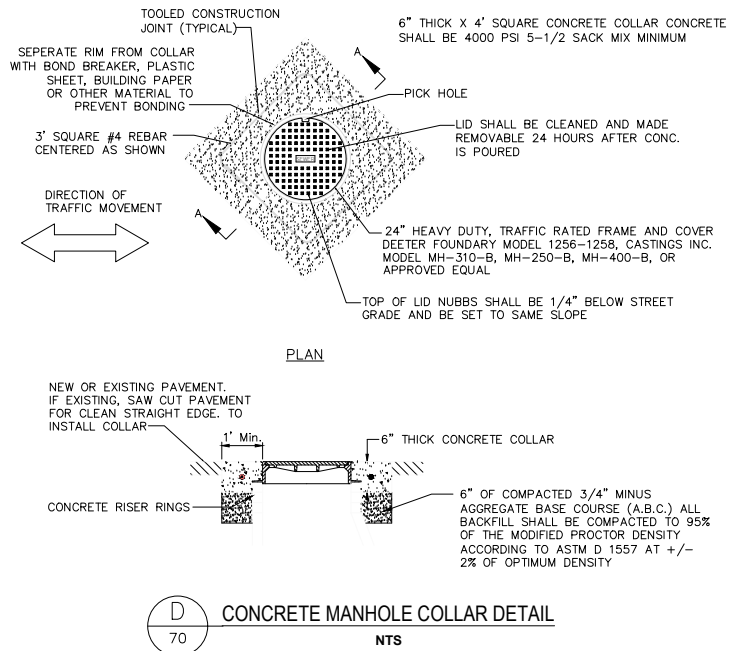
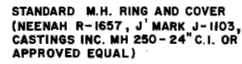
Point Table				
Point #	Elevation	Northing	Easting	Description
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2	6570.50	1270056.69	2320844.23	BLDG
3	6570.50	1270056.60	2320839.23	BLDG
4	6570.50	1270104.69	2320839.23	BLDG
5	6570.50	1270104.69	2320796.48	BLDG
6	6570.44	1270110.73	2320796.43	BLDG
7	6570.31	1270110.73	2320785.11	BLDG
8	6570.25	1270104.69	2320785.11	BLDG
9	6570.09	1270104.69	2320769.23	BLDG
10	6570.50	1270034.67	2320769.23	BLDG
11	6570.50	1270034.69	2320844.23	BLDG
12	6570.28	1270016.16	2320807.34	SWLK
13	6569.25	1270466.63	2320110.14	BLDG
14	6569.25	1270512.38	2320123.49	BLDG
15	6569.25	1270524.02	2320083.41	BLDG
16	6569.25	1270478.32	2320070.06	BLDG
87	6569.65	1270072.98	2320875.08	TBOC
88	6569.70	1270086.68	2320855.79	TBOC
89	6569.75	1270109.74	2320847.52	EOP
90	6570.47	1270131.68	2320848.33	TBOC
91	6570.83	1270169.09	2320888.78	TBOC
92	6570.32	1270134.05	2320943.02	TBOC
93	6570.12	1270142.05	2320929.63	EOP
94	6570.50	1270148.75	2320927.81	EOP
95	6571.74	1270166.03	2320936.38	EOP
96	6573.38	1270179.99	2320959.18	EOP
97	6570.18	1270161.78	2320901.74	EOP
98	6570.61	1270163.90	2320908.67	EOP
99	6571.30	1270179.88	2320897.39	EOP
100	6570.70	1270167.70	2320882.12	TBOC
101	6569.73	1270089.44	2320862.86	TBOC
102	6569.78	1270087.12	2320868.50	TBOC
103	6569.65	1270111.45	2320851.96	EOP
104	6569.65	1270118.18	2320854.61	EOP
105	6570.44	1270110.69	2320807.79	SWLK
106	6570.32	1270122.30	2320807.79	SWLK
107	6570.15	1270128.53	2320780.09	SWLK
108	6569.36	1270154.35	2320749.12	TBOC
109	6569.42	1270148.48	2320747.92	SWLK
110	6570.81	1270171.32	2320884.83	TBOC
111	6570.30	1270128.71	2320818.86	TBOC
112	6568.23	1270132.53	2320715.17	SWLK
113	6568.28	1270128.39	2320717.96	SWLK
114	6568.33	1270132.76	2320724.48	SWLK
115	6568.85	1270117.63	2320732.65	SWLK
116	6568.84	1270114.12	2320729.12	SWLK
117	6569.87	1270098.24	2320758.76	SWLK
118	6570.31	1270050.90	2320751.24	SWLK
119	6569.68	1270139.89	2320758.28	SWLK
120	6570.13	1270009.20	2320751.23	SWLK
121	6570.30	1270014.82	2320796.42	SWLK
122	6570.25	1270123.33	2320784.09	SWLK
123	6570.03	1270098.24	2320769.23	BLDG
126	6570.05	1270115.64	2320759.09	SWLK
127	6570.44	1270075.91	2320845.23	SWLK
128	6570.40	1270056.20	2320854.23	SWLK
129	6570.33	1270066.51	2320858.67	SWLK
131	6570.31	1270061.21	2320858.49	SWLK
132	6570.39	1270131.49	2320947.31	SWLK
133	6570.25	1270021.93	2320854.23	SWLK
134	6570.40	1270054.35	2320759.09	SWLK

Point Table				
Point #	Elevation	Northing	Easting	Description
135	6569.25	1270505.94	2320078.13	BLDG
136	6569.25	1270496.44	2320075.36	BLDG
137	6569.17	1270498.92	2320066.74	SWLK
138	6569.10	1270508.45	2320069.54	SWLK
139	6568.80	1270523.46	2320072.87	SWLK
140	6568.74	1270524.52	2320066.97	TBOC
141	6568.24	1270524.61	2320066.48	FL
142	6569.06	1270478.66	2320058.93	SWLK
143	6569.00	1270481.13	2320053.47	TBOC
144	6568.50	1270481.34	2320053.01	FL
145	6568.27	1270488.38	2320037.46	EOP
146	6568.22	1270486.02	2320030.90	EOP
147	6567.91	1270527.53	2320050.24	EOP
148	6567.85	1270534.31	2320046.48	EOP
149	6566.25	1270078.15	2319519.14	PC
150	6565.99	1270052.15	2319519.14	PC
151	6566.75	1270078.15	2319469.14	PC
152	6566.49	1270052.15	2319469.14	PC
153	6566.07	1270099.25	2319502.40	EOP
154	6566.06	1270114.25	2319502.40	EOP
155	6566.11	1270119.25	2319507.40	EOP
156	6566.26	1270099.25	2319472.40	EOP
157	6565.89	1270114.25	2319472.40	EOP
158	6565.71	1270119.25	2319467.40	EOP
159	6565.46	1270119.25	2319442.01	EOP
160	6565.46	1270114.25	2319437.01	EOP
161	6565.61	1270099.25	2319437.01	EOP
162	6565.21	1270099.25	2319397.01	EOP
163	6565.06	1270114.25	2319397.01	EOP
164	6564.96	1270119.25	2319392.01	EOP
165	6570.32	1270123.30	2320808.81	SWLK
166	6570.44	1270110.69	2320845.23	SWLK
167	6569.35	1270154.92	2320748.56	TBOC
168	6567.94	1270158.47	2320710.79	EOP
169	6568.09	1270144.14	2320707.38	EOP
170	6568.34	1270128.67	2320723.62	SWLK
171	6570.25	1270115.64	2320779.09	SWLK
172	6570.28	1270120.64	2320784.09	SWLK
173	6570.50	1270050.87	2320769.23	BLDG
174	6565.26	1270094.25	2319397.01	SWLK
175	6565.89	1270094.25	2319459.91	SWLK
176	6565.84	1270099.25	2319459.91	SWLK
177	6566.18	1270099.25	2319465.08	SWLK
178	6566.14	1270094.25	2319502.40	SWLK
179	6565.69	1270119.25	2319465.00	SWLK
180	6565.64	1270119.25	2319459.91	SWLK
181	6564.81	1270042.44	2319459.91	SWLK
182	6565.16	1270042.35	2319465.14	SWLK
183	6565.78	1270048.15	2319465.14	SWLK
184	6566.40	1270082.15	2319465.14	SWLK
185	6566.29	1270082.15	2319523.14	SWLK
186	6565.88	1270048.15	2319523.14	SWLK
187	6566.28	1270094.25	2319465.08	SWLK
188	6570.32	1270053.39	2320751.33	SWLK
189	6567.51	1270092.73	2320664.80	SWLK
190	6567.43	1270096.89	2320662.01	SWLK
191	6569.94	1270048.68	2320713.07	SWLK
192	6570.13	1270052.86	2320703.10	SWLK
193	6570.01	1270045.92	2320692.83	SWLK
194	6569.98	1270042.33	2320697.25	SWLK
195	6569.85	1270031.30	2320699.04	SWLK

Point Table				
Point #	Elevation	Northing	Easting	Description
196	6569.89	1269985.38	2320751.23	TOW
197	6570.05	1269983.44	2320735.39	TOW
198	6569.94	1269994.36	2320734.05	TOW
199	6567.68	1269990.25	2320700.58	TOW
200	6567.79	1270030.06	2320688.93	SWLK
201	6567.75	1270024.23	2320677.80	SWLK
202	6570.26	1270011.19	2320796.42	SWLK
203	6570.13	1270009.62	2320783.58	SWLK
204	6569.92	1269988.36	2320783.58	SWLK
205	6569.97	1270001.19	2320821.52	SWLK
206	6570.10	1270014.27	2320821.52	SWLK
207	6564.73	1269996.06	2320691.86	BOW
208	6564.77	1270015.82	2320678.63	BOW
209	6564.81	1270012.20	2320673.83	SWLK
210	6564.66	1269993.00	2320686.70	SWLK
213	6565.00	1270034.89	2320664.52	SWLK
214	6564.89	1270033.71	2320670.42	SWLK
228	6570.16	1270051.41	2320735.10	SWLK
229	6570.22	1270052.15	2320741.10	SWLK
230	6570.02	1270070.08	2320698.14	SWLK
231	6570.03	1270065.67	2320698.14	SWLK
232	6570.03	1270065.67	2320731.64	SWLK
233	6569.99	1270071.72	2320731.64	SWLK
234	6569.99	1270071.72	2320735.10	SWLK
235	6570.03	1270065.67	2320741.10	SWLK
236	6570.03	1270065.67	2320748.59	SWLK
237	6569.99	1270071.97	2320748.59	SWLK
238	6570.05	1270071.97	2320756.09	SWLK
239	6570.05	1270089.33	2320756.09	SWLK
240	6570.05	1270091.03	2320750.41	SWLK
241	6570.05	1270096.79	2320752.13	SWLK
242	6570.05	1270117.69	2320721.27	SWLK
243	6570.05	1270113.52	2320715.01	SWLK
244	6570.03	1270088.96	2320682.51	SWLK
245	6569.98	1270093.41	2320689.15	SWLK
246	6570.03	1270070.08	2320695.17	SWLK
247	6570.05	1270099.23	2320685.25	SWLK
248	6570.05	1270113.58	2320706.65	SWLK
249	6568.17	1270122.27	2320708.84	SWLK
250	6568.10	1270118.56	2320703.31	SWLK
251	6570.05	1270117.29	2320712.19	SWLK
253	6570.18	1270018.69	2320849.23	SWLK
254	6570.11	1270018.69	2320854.23	SWLK
255	6569.32	1270009.13	2320842.15	SWLK
256	6569.25	1270004.35	2320843.61	SWLK
257	6568.98	1270006.87	2320834.74	SWLK
258	6568.90	1270002.09	2320836.20	SWLK
259	6568.72	1270002.23	2320827.68	SWLK
260	6568.64	1269999.00	2320831.49	SWLK
261	6568.54	1269999.26	2320825.15	SWLK
262	6568.47	1269996.02	2320828.96	SWLK
263	6567.20	1269984.25	2320803.03	SWLK
264	6567.13	1269979.51	2320804.63	SWLK
265	6564.84	1269967.46	2320753.24	SWLK
266	6564.76	1269962.72	2320754.84	SWLK
267	6564.07	1269964.84	2320737.97	SWLK
268	6563.99	1269959.84	2320738.04	SWLK
269	6564.74	1269959.30	2320700.42	SWLK
270	6564.72	1269958.81	2320694.59	SWLK
271	6563.98	1269955.74	2320698.68	SWLK
272	6564.80	1269959.22	2320694.58	SWLK

Point Table				
Point #	Elevation	Northing	Easting	Description
273	6564.88	1269964.22	2320694.41	SWLK
274	6564.82	1269964.30	2320700.27	SWLK
275	6564.85	1269983.11	2320699.64	SWLK
276	6564.84	1269985.73	2320698.80	SWLK
277	6564.80	1269980.98	2320693.85	SWLK
278	6564.77	1269983.60	2320693.00	SWLK
279	6565.00	1270025.89	2320664.62	SWLK
280	6565.03	1270029.77	2320663.80	SWLK
281	6564.81	1270027.37	2320670.86	SWLK
282	6564.84	1270030.79	2320670.05	SWLK
283	6562.16	1269991.36	2320680.57	BOW
284	6562.16	1270007.15	2320669.99	BOW
285	6567.75	1270019.80	2320684.38	TOW
286	6567.75	1269999.87	2320697.74	TOW
287	6569.79	1270030.61	2320693.38	TOW
288	6567.79	1269991.97	2320714.63	BOW
289	6569.79	1269992.50	2320718.94	TOW
290	6564.65	1269994.15	2320684.72	TOW
291	6564.66	1270009.93	2320674.14	TOW
292	6570.24	1270012.45	2320807.34	SWLK
293	6570.05	1270062.67	2320738.10	SWLK
294	6569.95	1270078.01	2320747.02	SWLK
295	6569.95	1270078.01	2320705.50	SWLK
296	6569.95	1270093.10	2320695.38	SWLK
297	6569.95	1270106.96	2320716.05	SWLK
298	6569.95	1270086.89	2320747.02	SWLK
299	6569.63	1270073.19	2320875.53	TBOC
300	6569.70	1270068.66	2320877.64	SWLK
301	6569.12	1270072.93	2320886.15	SWLK
302	6569.03	1270077.70	2320894.39	SWLK
303	6569.43	1270082.95	2320902.33	SWLK
304	6569.35	1270087.04	2320899.45	TBOC
305	6568.95	1270081.95	2320891.75	TBOC
306	6568.94	1270082.38	2320891.49	FL
307	6569.04	1270077.33	2320883.77	TBOC
308	6569.04	1270077.77	2320883.54	FL
309	6568.99	1270103.79	2320887.63	EOP
310	6569.25	1270094.50	2320916.83	SWLK
311	6569.26	1270095.17	2320917.57	SWLK
312	6569.17	1270098.21	2320913.48	TBOC
313	6569.18	1270098.88	2320914.22	TBOC
314	6568.68	1270098.59	2320913.14	FL
315	6568.69	1270099.25	2320913.89	FL
316	6570.50	1270034.69	2320801.73	BLDG
317	6570.50	1270046.22	2320769.23	BLDG
318	6570.50	1270037.10	2320844.23	BLDG
319	6570.48	1270079.58	2320841.22	BLDG
320	6570.48	1270100.34	2320841.23	BLDG
321	6570.50	1270104.67	2320801.73	BLDG
322	6569.25	1270505.10	2320805.02	BLDG
323	6569.25	1270493.47	2320801.44	BLDG
324	6569.25	1270519.21	2320092.48	BLDG
325	6569.25	1270516.13	2320102.78	BLDG
326	6569.25	1270513.12	2320113.06	BLDG
327	6569.25	1270496.58	2320111.91	BLDG
328	6569.25	1270484.82	2320108.47	BLDG
329	6569.25	1270471.48	2320100.99	BLDG
330	6569.25	1270474.50	2320090.53	BLDG
331	6569.25	1270477.44	2320080.59	BLDG

1. CONCRETE SHALL BE COLORADO DIVISION OF HIGHWAYS CLASS "B" (SECTION 601.02)
2. ALL CEMENT USED IN MORTAR, CONCRETE BASES, GRADE RINGS, RISER SECTIONS, CONES, AND FLAT TOPS, FOR SANITARY SEWER MANHOLES, SHALL BE TYPE Σ OR MODIFIED TYPE II PORTLAND CEMENT WITH LESS THAN 5% TRICALCIUM ALUMINATE
3. RINGS, CONES, FLAT TOPS, AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE CONFORMED TO ASTM C-478 OR AASHTO M-199.
4. FOR INLET SIZES GREATER THAN 36" DIAMETER A 60" DIAMETER MANHOLE WILL BE REQUIRED.



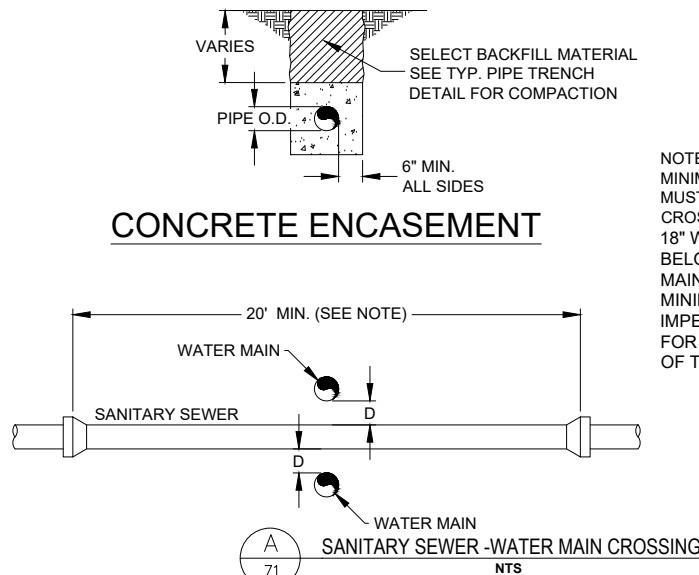
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
10"	1'-10"	2'-10"
12"	2'-0"	3'-0"
18"	2'-6"	3'-6"

FOR TRENCHES GREATER THAN 5 FEET IN DEPTH, SIDEWALLS SHALL BE SLOPED AT 1:1 ANGLE OR SHIELDED OR BRACED OR SHUTTED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES AS REQUIRED BY OSHA OR IN UNSTABLE SOIL CONDITIONS, SLOPE TRENCH WALLS ACCORDING TO GEOTECHNICAL RECOMMENDATIONS.

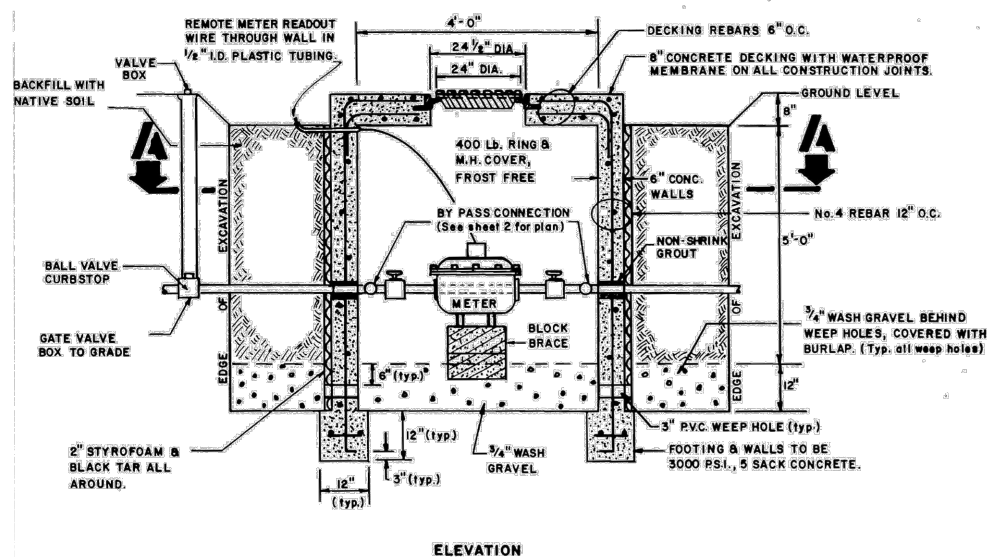
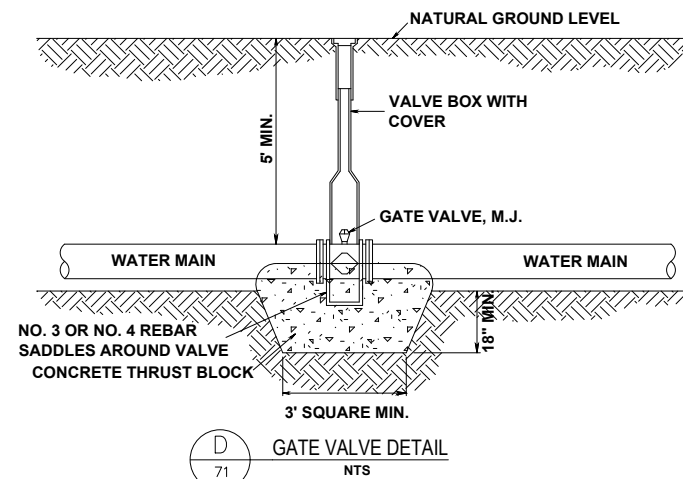
A HORIZONTAL CLEARANCE OF A MIN. OF 3 FEET SHALL BE MAINTAINED BETWEEN DISTRICT PIPES AND ALL OTHER FACILITIES THAT WILL SHARE THE SAME TRENCH



Save: 1/23/2025 11:22 AM scollins Plot: 1/23/2025 11:54 AM \\sehncc.com\panzura\p2projects\PT\ROBRE\68892\5-final.dgn 51-drawings\10-Civil\cad\dwg\sheet_Village Camp\68891_DT.dwg

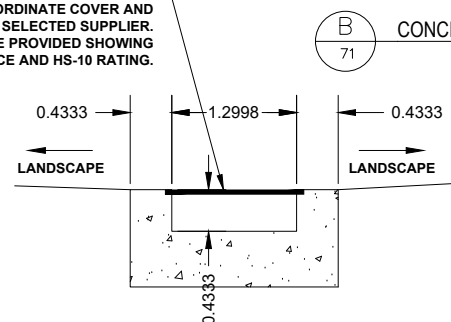
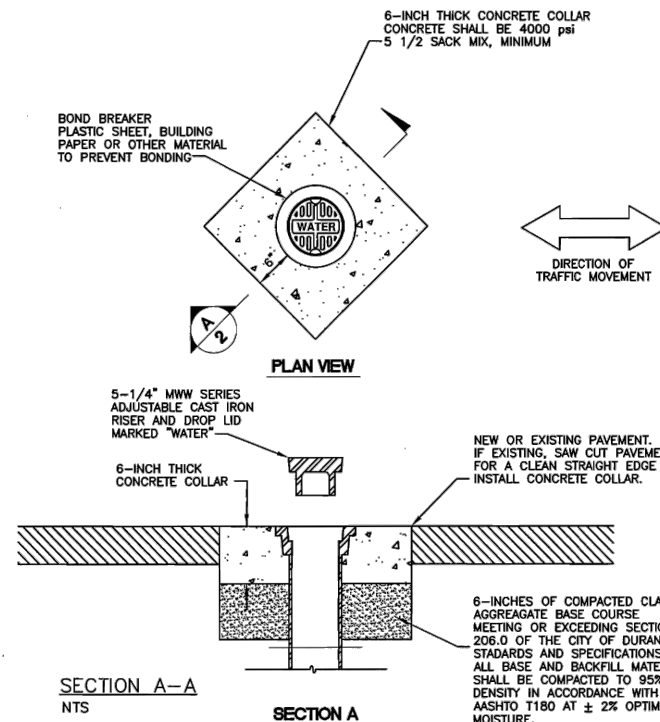


NOTE:
ALL VALVES AND THREADS SHALL BE COVERED WITH POLYETHYLENE SHEETING BEFORE POURING THRUST BLOCKS AND BACKFILLING.

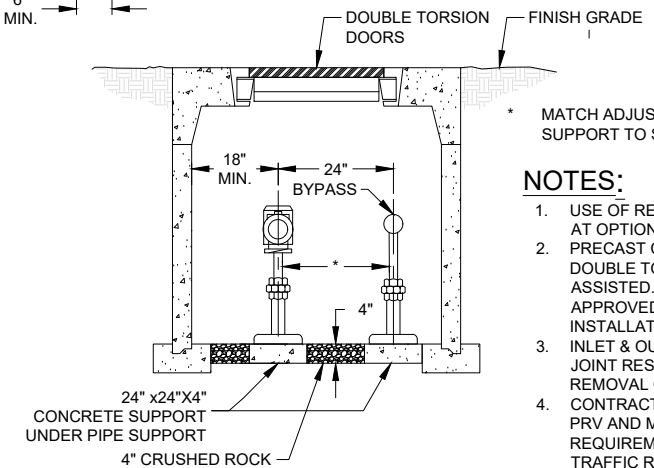
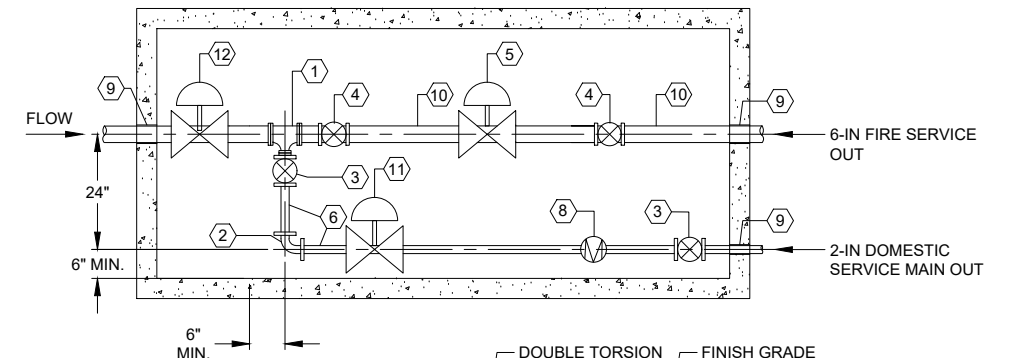
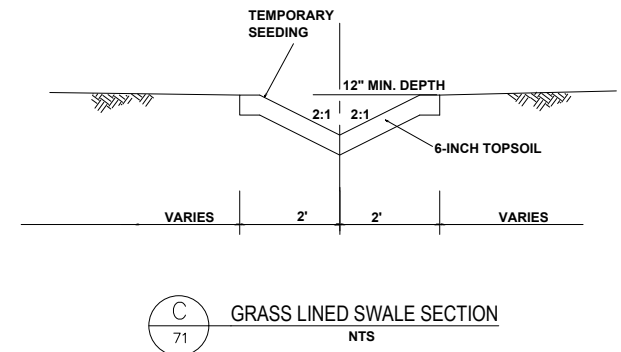
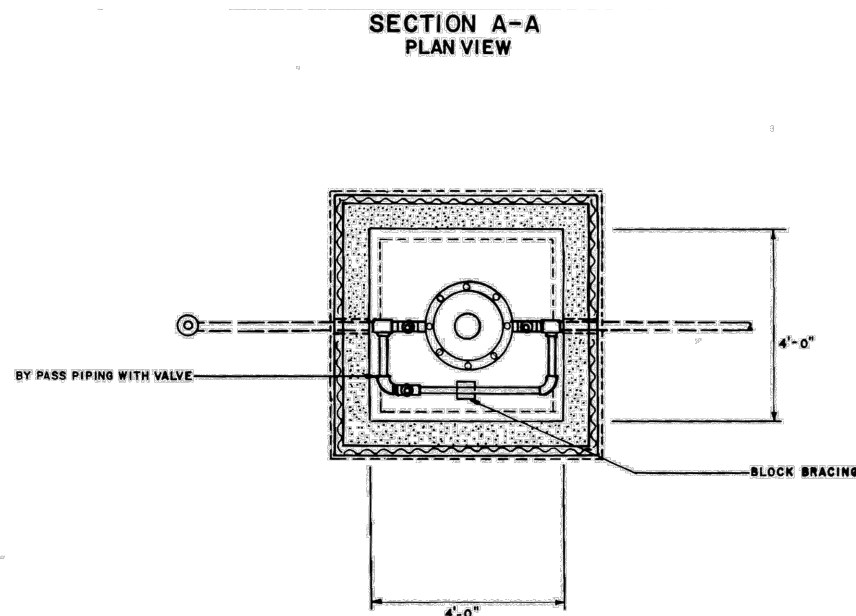


F METER VAULT PIT DETAIL
NTS

NOTE:
MINIMUM CLEAR DISTANCE FOR "D" MUST BE 6". WHEN SEWER MAINS CROSS ABOVE WATER MAINS OR "D" ≤ 18" WHEN SEWER MAIN CROSSES BELOW WATER MAINS, THE WATER MAIN MUST HAVE PROTECTION. MINIMUM PROTECTION SHALL BE AN IMPERVIOUS STRUCTURAL SEWER FOR A DISTANCE OF 10' EACH SIDE OF THE WATER MAIN.



E SIDEWALK CHASE DETAIL
NTS



- NOTES:**
1. USE OF REMOTE READING DEVICE AT OPTION OF UTILITY.
 2. PRECAST CONCRETE VAULTS - WITH DOUBLE TORSION DOORS - SPRING ASSISTED. CONTACT UTILITIES FOR APPROVED VAULT BEFORE INSTALLATION.
 3. INLET & OUTLET PIPES MUST BE JOINT RESTRAINED TO PERMIT REMOVAL OF FITTINGS OR METER. CONTRACTOR TO SIZE VAULT PER PRV AND MAG METER MFR REQUIREMENTS. VAULT SHALL BE TRAFFIC RATED PRE-CAST CONCRETE.
 4. 6-IN WATERLINE IS UMETERED, PRIVATE FIRE INFRASTRUCTURE. LINE IS TO BE INSTALLED IN SHARED TRENCH WITH METERED, 2-IN DOMESTIC SERVICE LINE.

LEGEND:

1. 6-INCH x 6-INCH x 2-INCH FLANGED TEE
2. 2-INCH FLANGED 90 DEG. BENDS
3. 2-INCH GATE VALVE
4. 6-INCH GATE VALVE
5. PRESSURE REDUCING VALVE
6. 2-IN BYPASS LINE
7. CLEAR ZONE AROUND METER PER MANUFACTURER'S RECOMMENDATIONS
8. 2-INCH MAG METER
9. LINKSEAL (OR APPROVED EQUAL) ARE TO BE USED IN PIPE THROUGH CONCRETE WALLS
10. FLANGED SPOOL
11. 2-INCH PRV
12. 6-INCH BACKFLOW PREVENTER

71 PRIVATE WATER VAULT DETAIL
NTS

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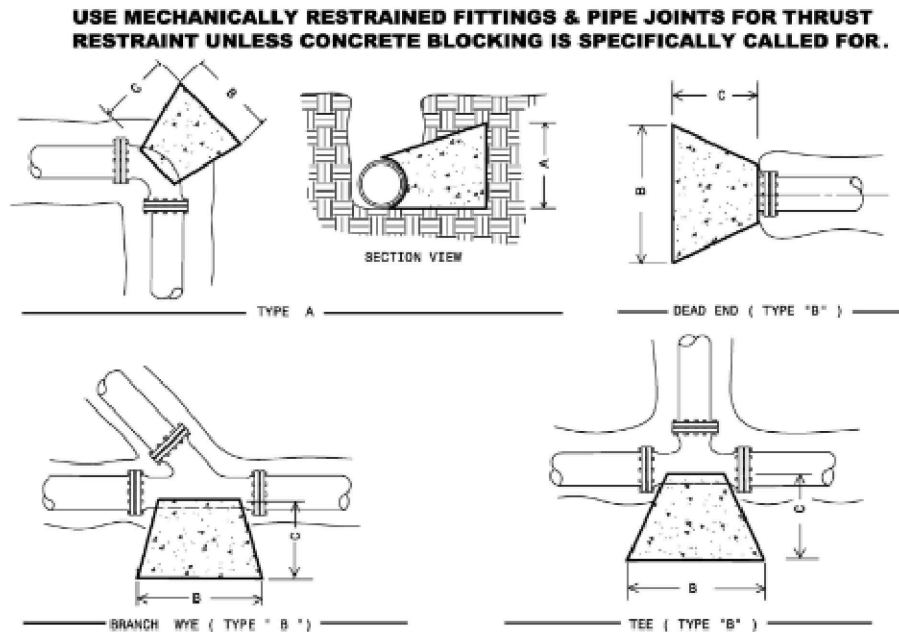
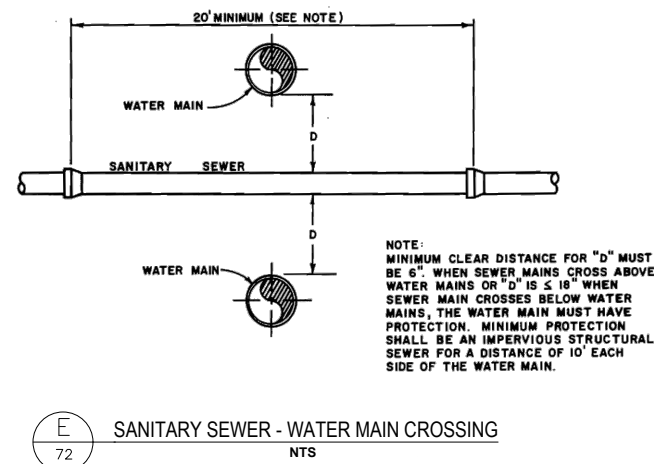
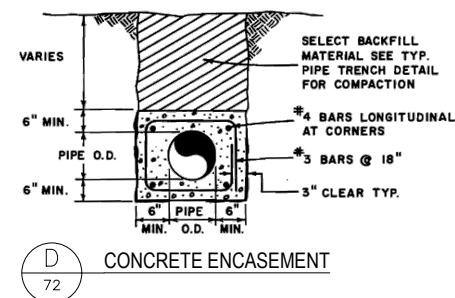
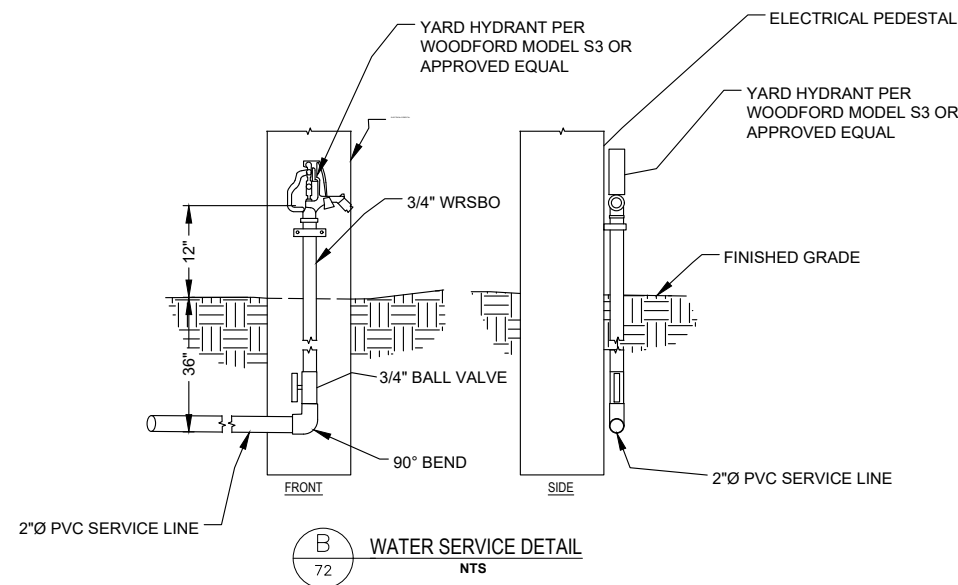
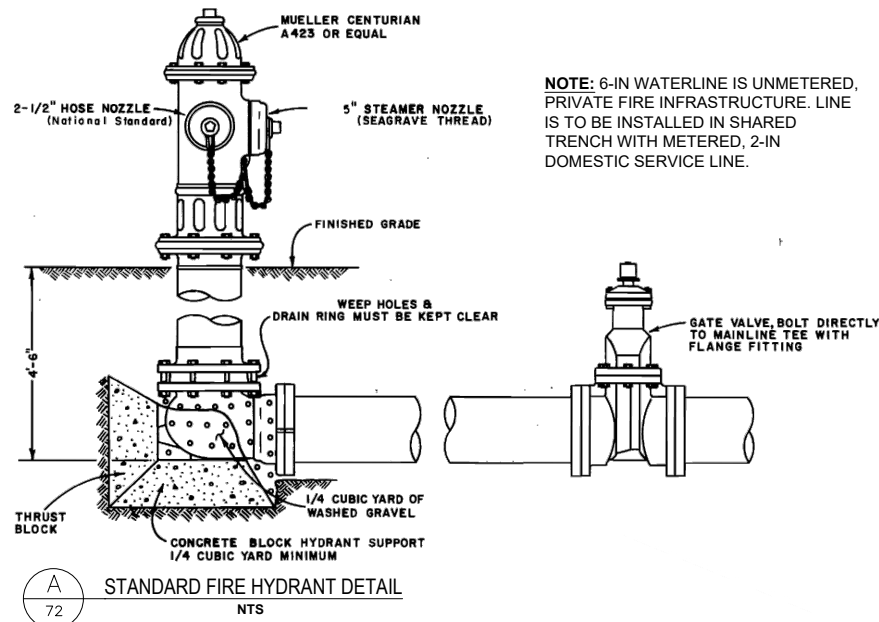


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LICENSE NO. 0051259

VILLAGE CAMP DURANGO
DURANGO, COLORADO

UTILITY DETAILS 2

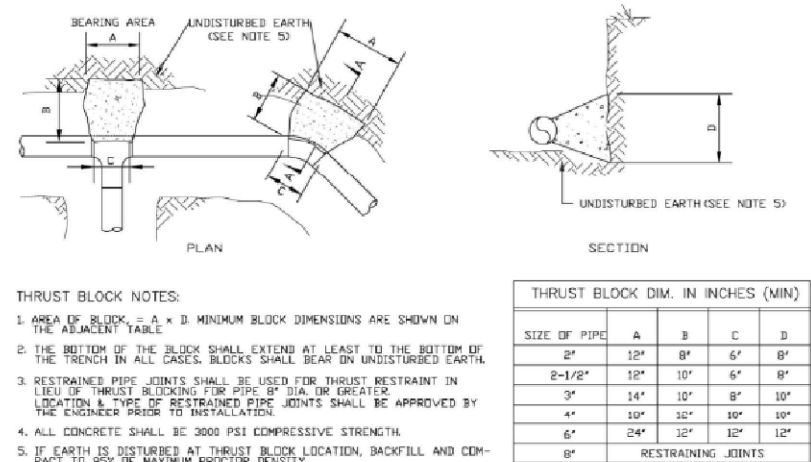
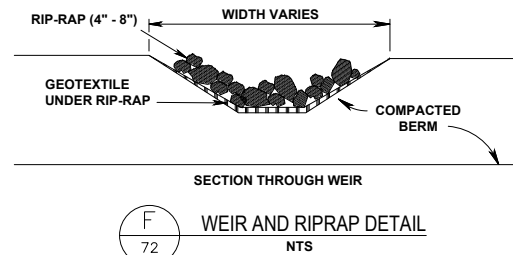
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PIPE DIAMETER	TYPE "A" BENDS												TYPE "B"		
	11-1/4 °			22 1/2 °			45°			90°					
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
4"	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
6"	12	12	12	12	12	12	12	18	12	18	24	12	12	24	12
8"	12	12	12	12	18	12	18	24	12	24	30	18	18	30	12
10"	12	12	12	12	24	12	20	30	12	24	42	18	24	36	18
12"	12	18	12	18	24	12	24	36	18	32	48	24	24	42	18
14"	12	24	12	18	36	18	30	42	24	36	60	24	30	48	24
16"	18	24	24	24	36	24	30	40	24	42	66	24	36	54	24
18"	18	30	24	24	40	24	36	54	24	48	72	24	42	60	24
20"	20	30	24	30	42	24	42	60	24	54	80	24	42	78	24
24"	24	36	24	36	54	24	48	72	24	66	96	30	54	80	30

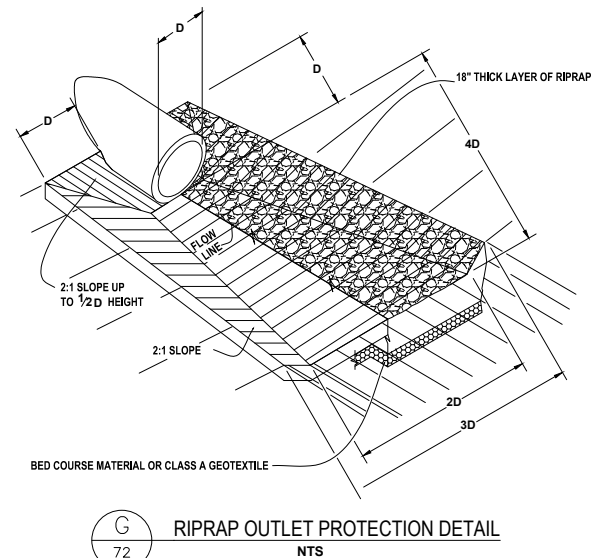
1. TABLE BASED ON 200 P.S.I. (130 P.S.I. WORKING PRESSURE) AND 3000 LB/FT² ALLOWABLE SOIL BEARING PRESSURE.
2. USE TEE OUTLET DIAMETER TO DETERMINE THRUST BLOCK SIZING. USE BRANCH DIAMETER ON WYE TO DETERMINE THRUST BLOCK SIZING.
3. THE "C" DIMENSION LISTED IS A MINIMUM DIMENSION. CONCRETE BLOCKING MUST BE POURED TO THE UNDISTURBED SOIL OF THE TRENCH WALL.

C 72 THRUST BLOCK DETAIL NTS



THRUST BLOCK DETAILS (NTS)

- NOTES:
1. USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (I.E. HYDROSTATIC TEST PRESSURE, POSSIBLE SURGE PRESSURE TO PUMP OR VALVE SHUT-OFF, ETC.)
 2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL. IN THE ABSENCE OF A SOIL REPORT, ASSUME 1,000 PSF.
 3. CONCRETE THRUST BLOCKS TO BE 3,000 PSI STRENGTH AT 28-DAYS.
 4. THRUST BLOCKS TO BEAR ON UNDISTURBED EARTH.
 5. DO NOT EXTEND CONCRETE BEYOND THE FITTING JOINTS.
 6. INSTALL POLYETHYLENE BOND BREAKER BETWEEN PIPE AND CONCRETE.
 7. IN ADDITION TO THRUST BLOCKS, MECHANICAL RESTRAINTS (MEGA-LUGS, OR EQUAL) SHALL BE USED AT ALL VALVES, JOINTS, BENDS, FITTINGS WITH MECHANICAL OR PUSH-ON TYPE CONNECTIONS, AND DEAD ENDS.



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Designed By	TM						
Checked By	SW						



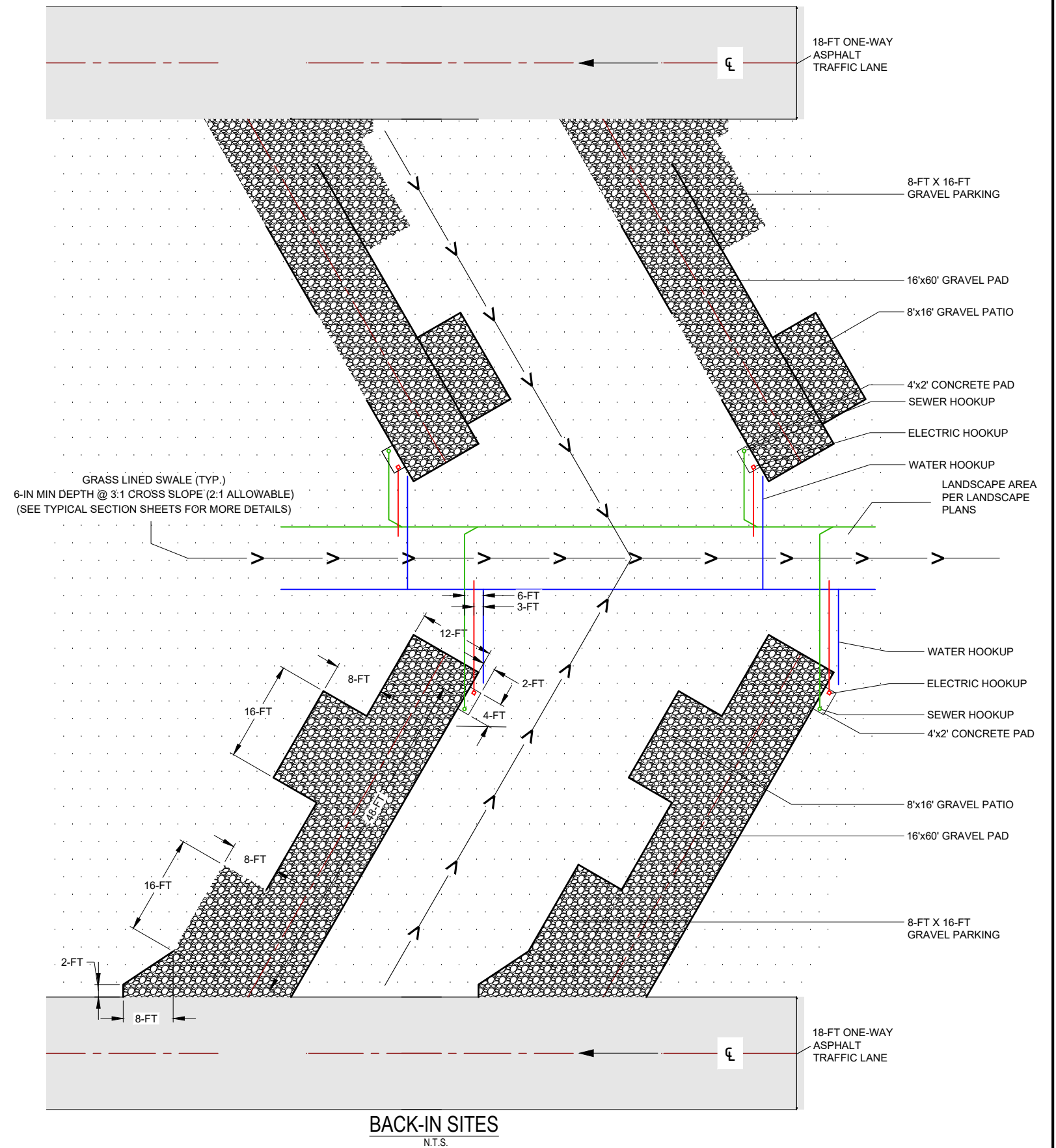
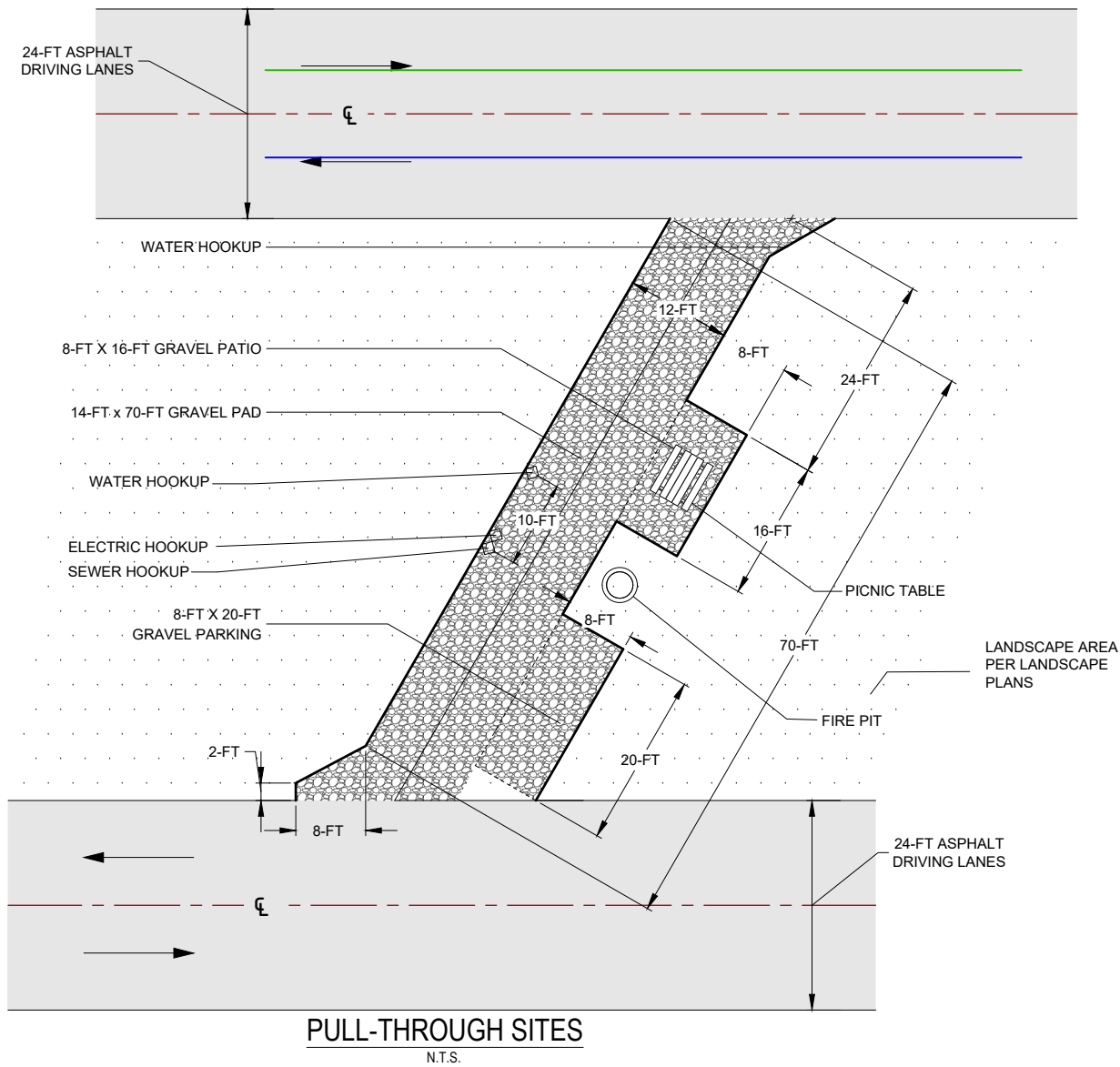
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DATE 01/17/2025
LICENSE NO. 0051259

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DURANGO, COLORADO

UTILITY DETAILS 3

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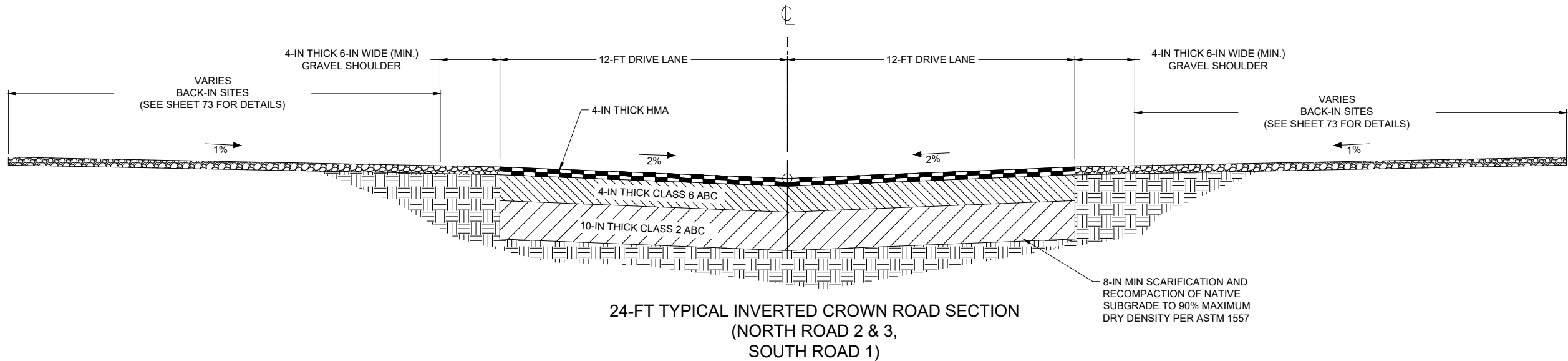
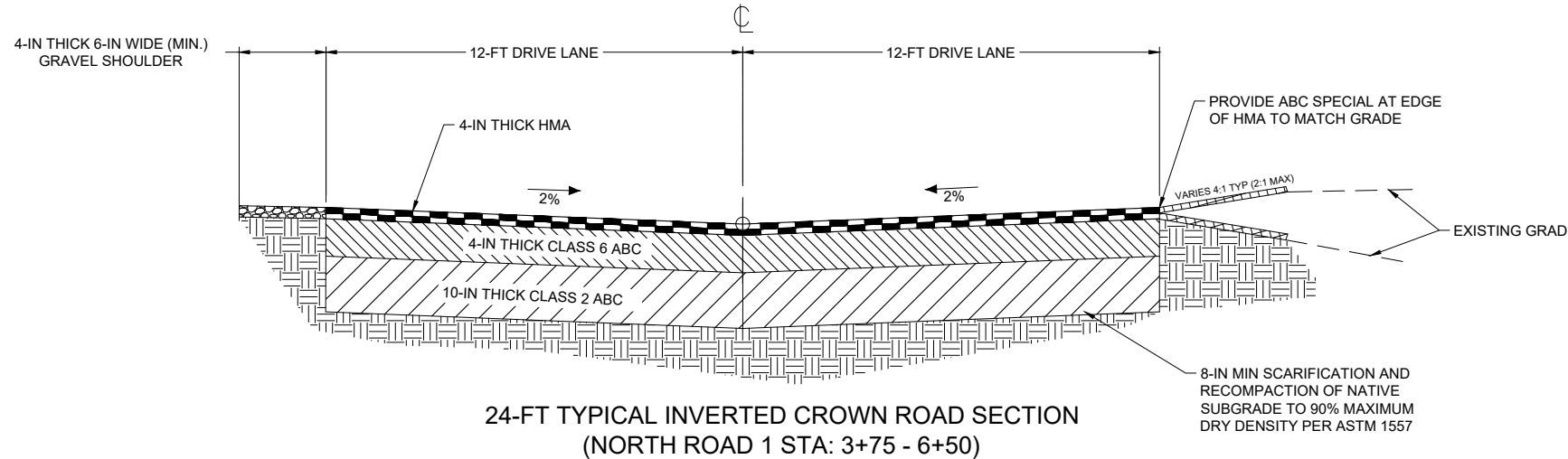
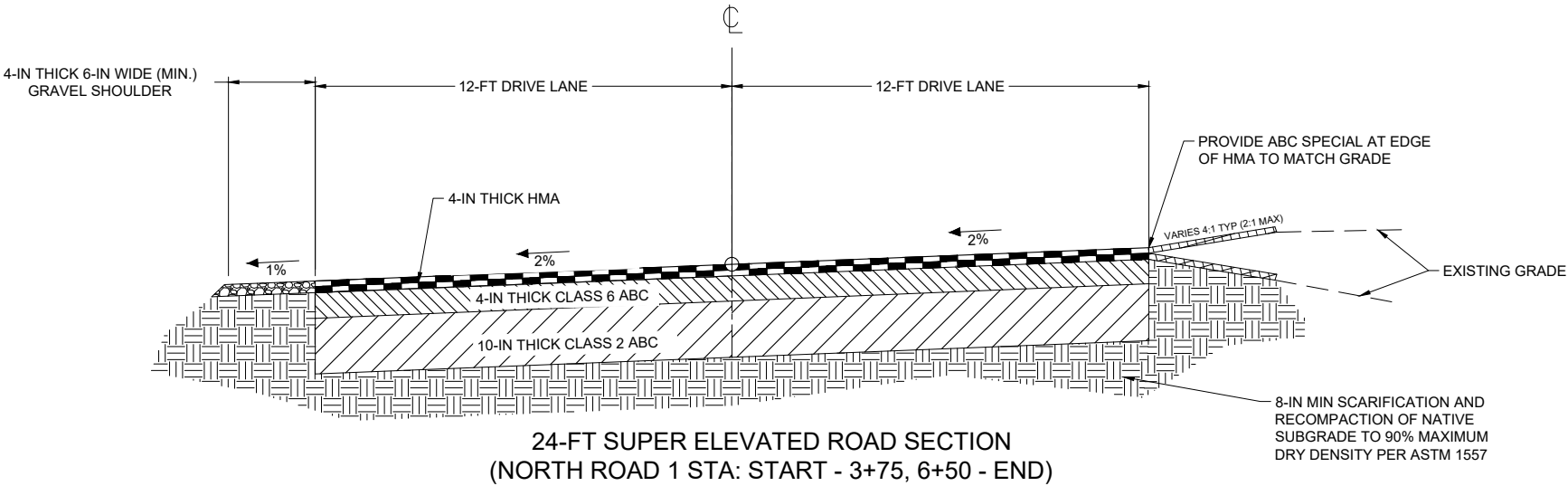
VILLAGE CAMP DURANGO
DURANGO, COLORADO

TRADITIONAL RV SITE DETAILS

PAVING COMPACTION TO BE PERFORMED PER PROJECT GEOTECHNICAL REPORT

AGGREGATE BASE COURSES (ABC) SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM 1557

ASPHALT MIX AND COMPACTION TO BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER



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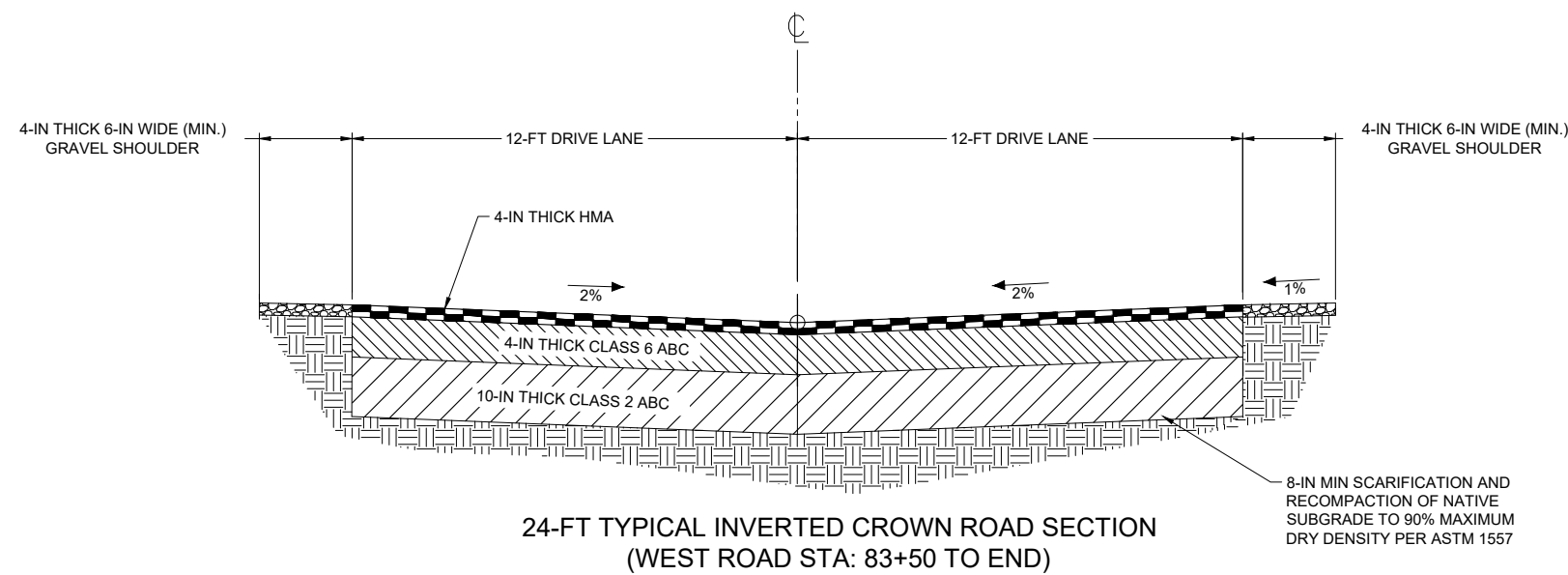
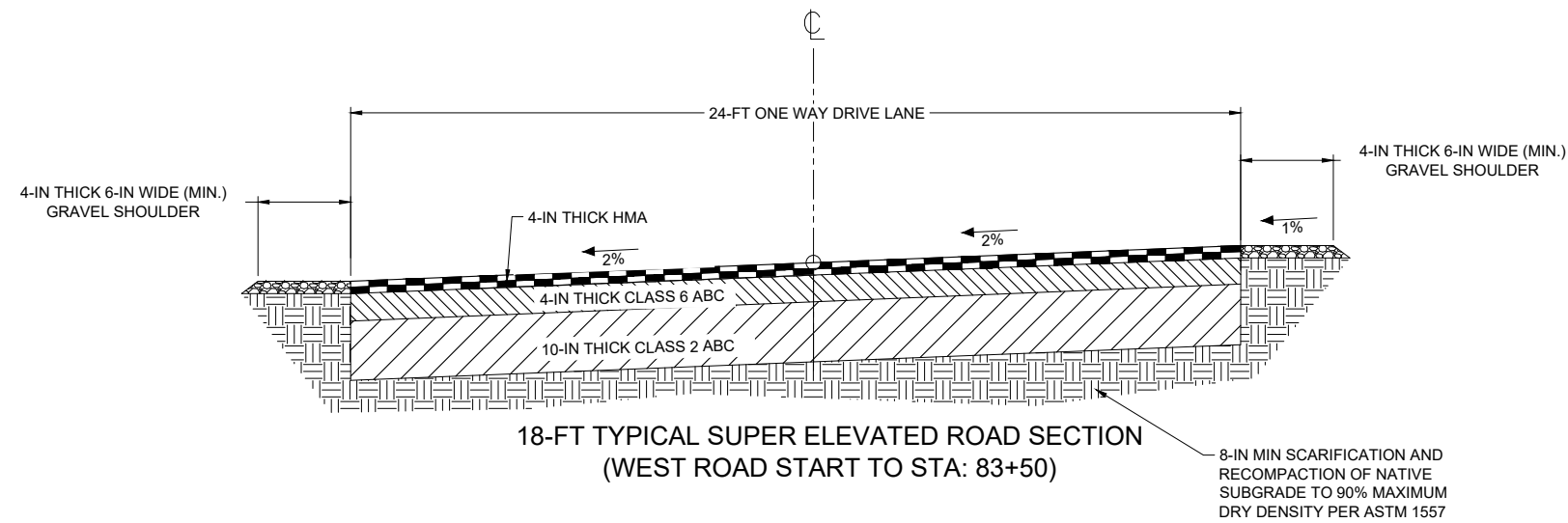
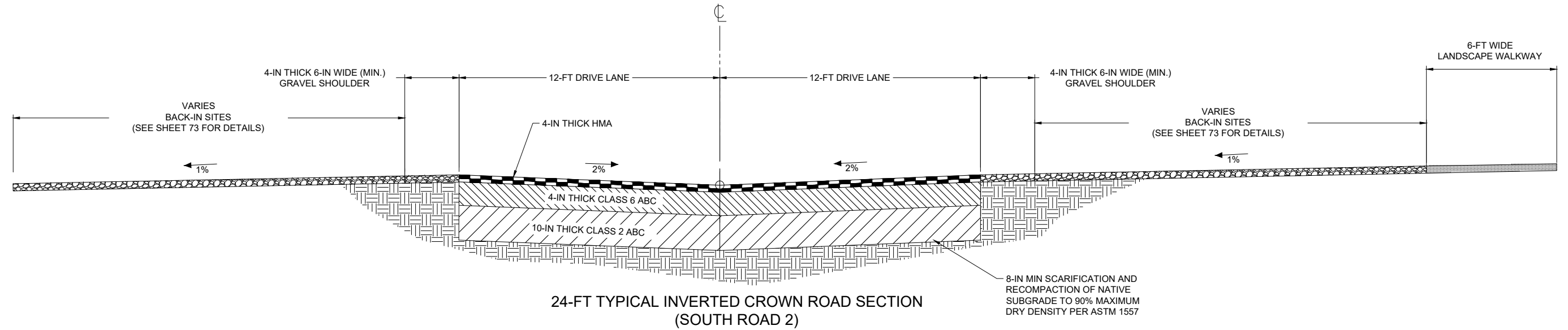
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VILLAGE CAMP DURANGO
DURANGO, COLORADO

TYPICAL SECTIONS

75

of 82



PAVING COMPACTION TO BE PERFORMED PER PROJECT GEOTECHNICAL REPORT

AGGREGATE BASE COURSES (ABC) SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM 1557

ASPHALT MIX AND COMPACTION TO BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER

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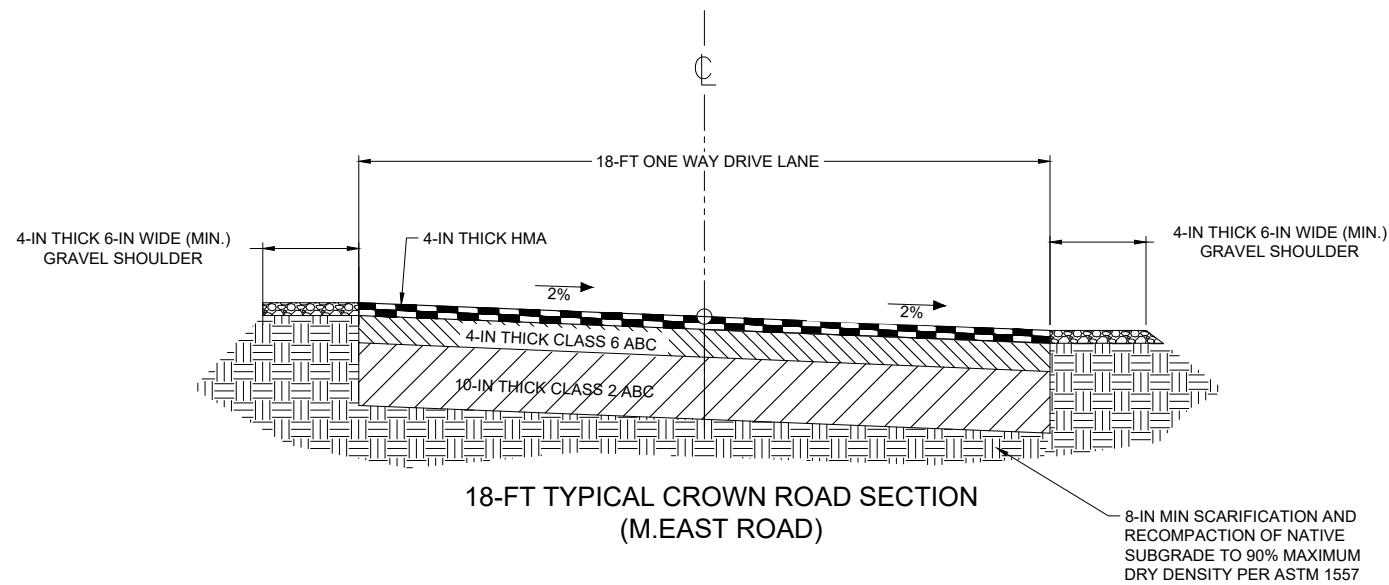
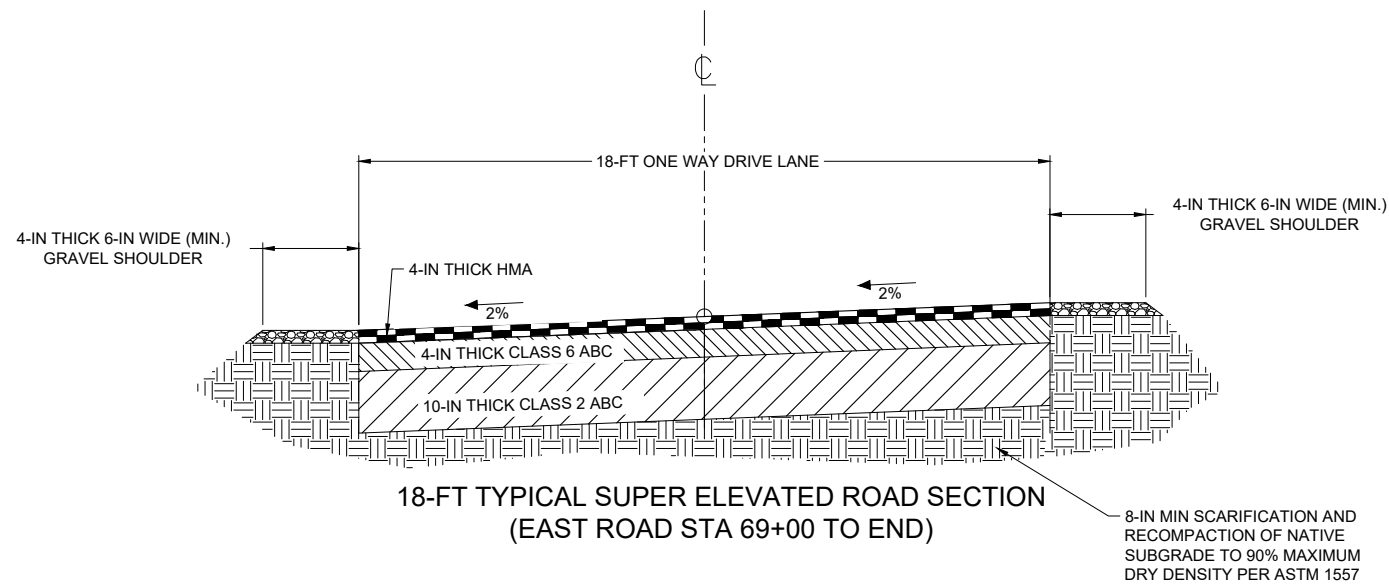
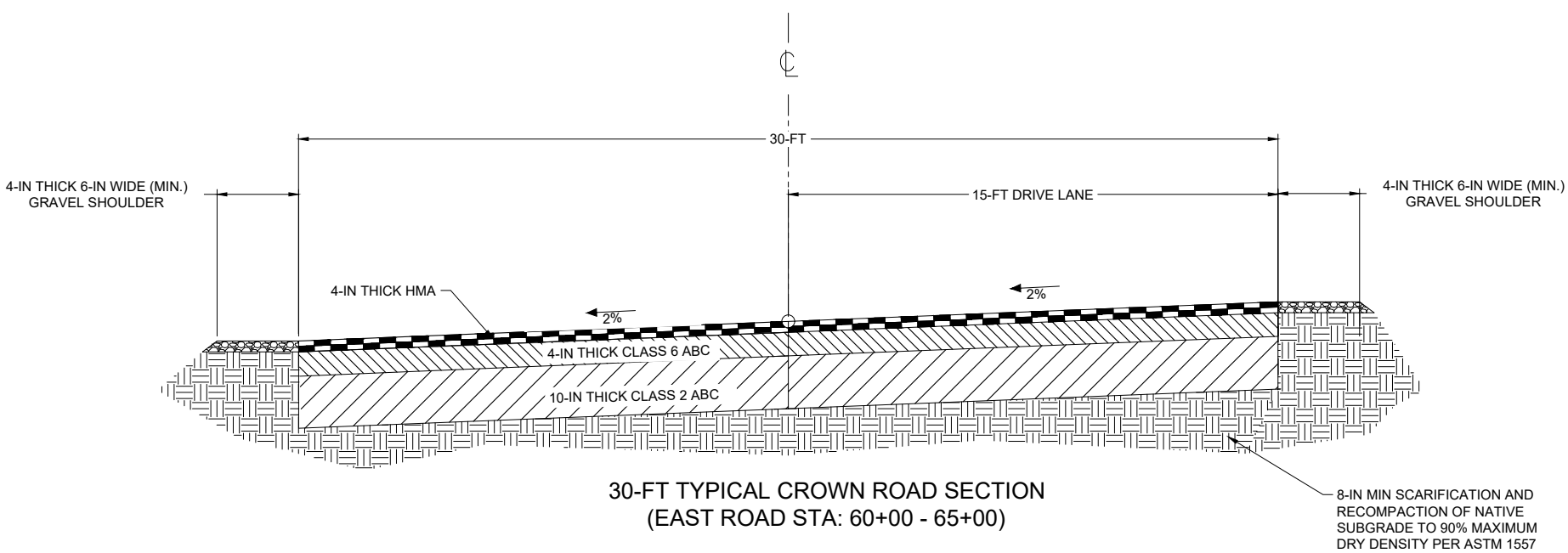
VILLAGE CAMP DURANGO
DURANGO, COLORADO

TYPICAL SECTIONS (2)

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COMPACTED TO 95% MAXIMUM DRY DENSITY PER
ASTM 1557

ASPHALT MIX AND COMPACTION TO BE REVIEWED
AND APPROVED BY GEOTECHNICAL ENGINEER



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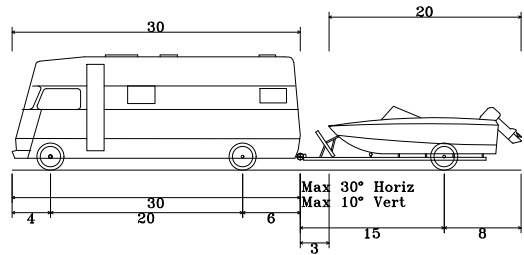


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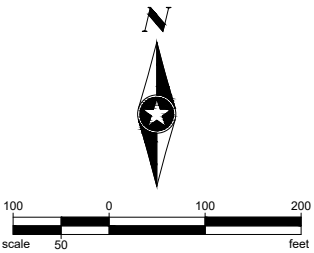
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VILLAGE CAMP DURANGO
DURANGO, COLORADO

TYPICAL SECTIONS (3)

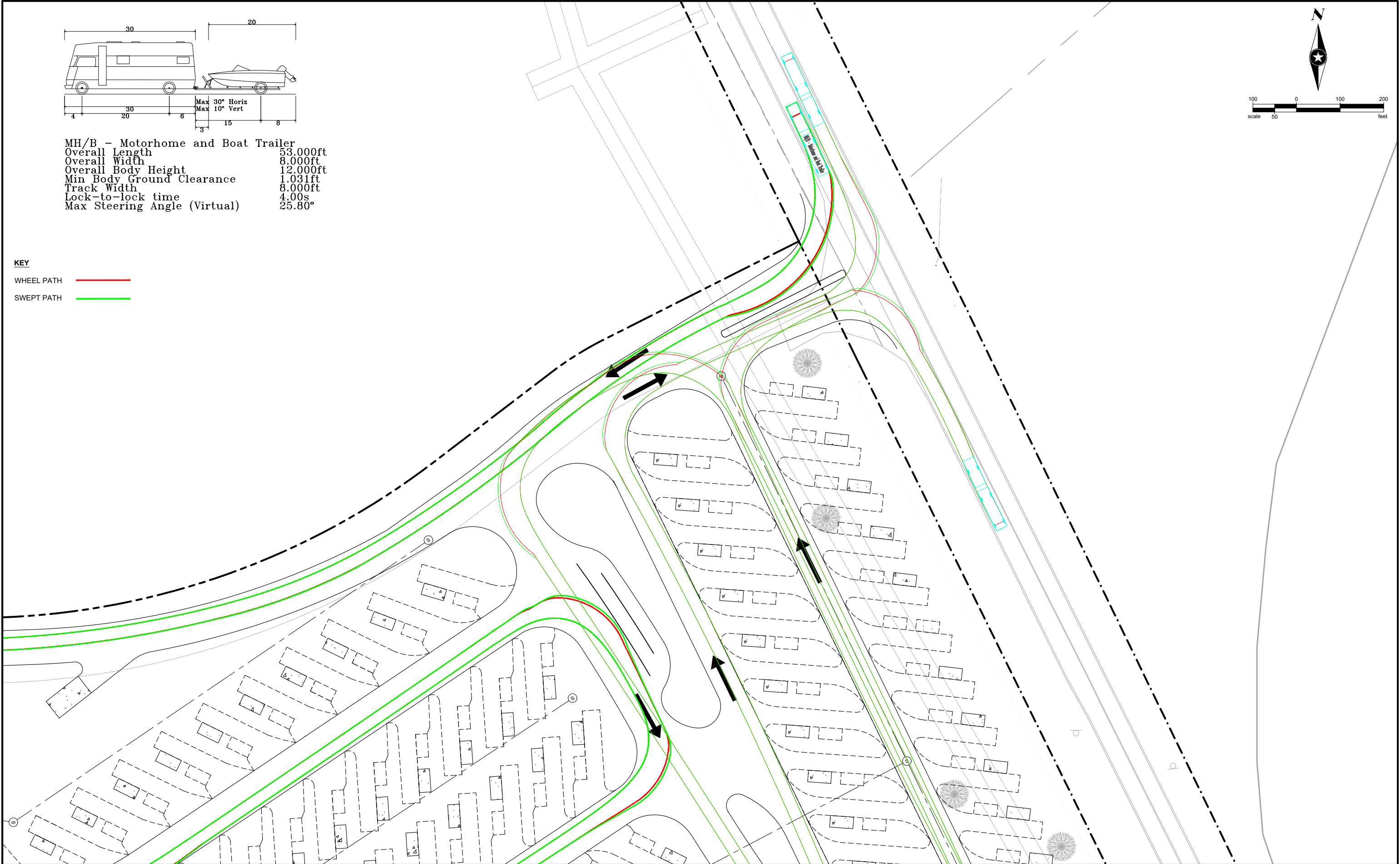


MH/B - Motorhome and Boat Trailer
Overall Length 53.000ft
Overall Width 8.000ft
Overall Body Height 12.000ft
Min Body Ground Clearance 1.031ft
Track Width 8.000ft
Lock-to-lock time 4.00s
Max Steering Angle (Virtual) 25.80°



KEY

WHEEL PATH —
SWEPT PATH —



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Checked By SW

Rev. #	Revision Issue Description	Date

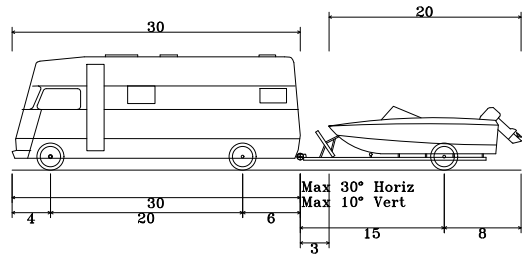
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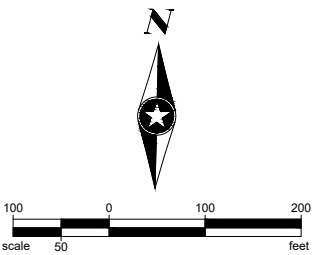
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VILLAGE CAMP DURANGO
DURANGO, COLORADO

VEHICLE TRACKING I



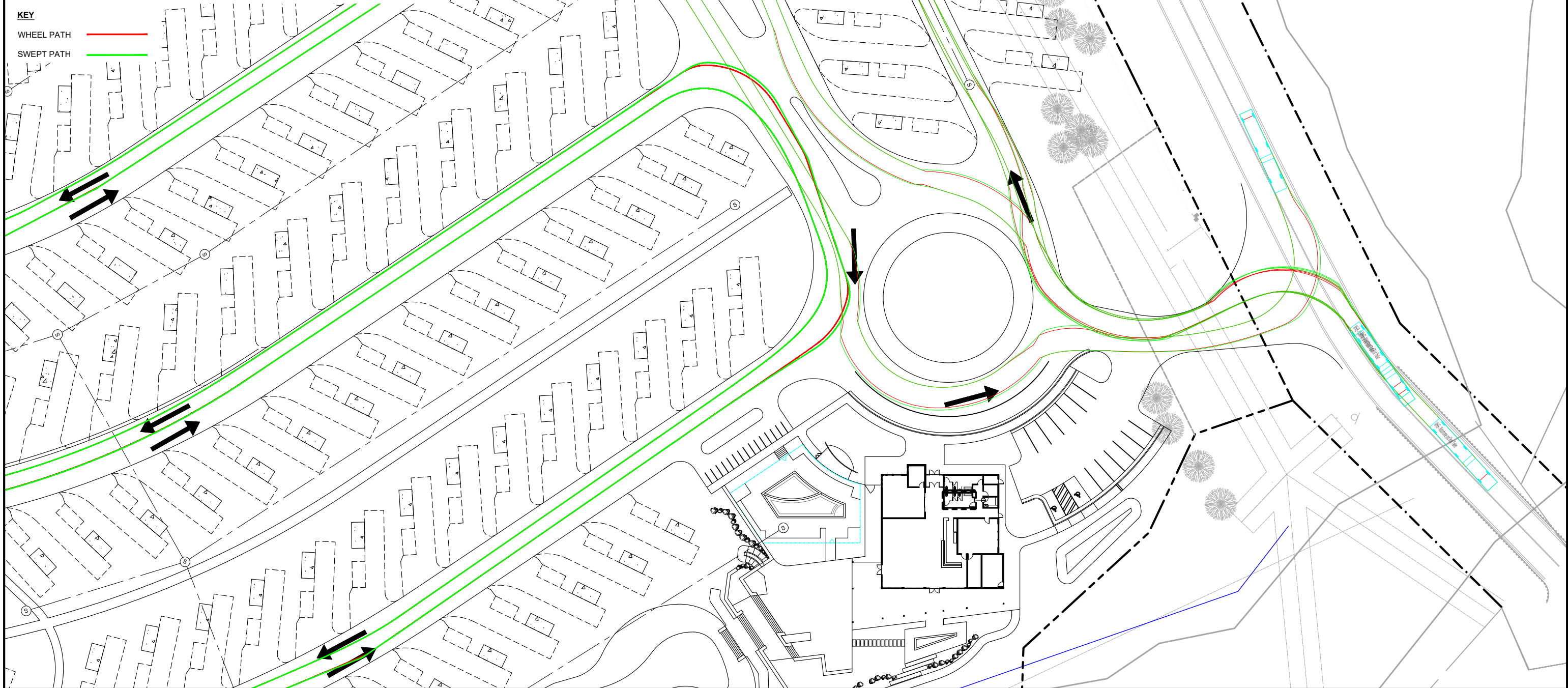
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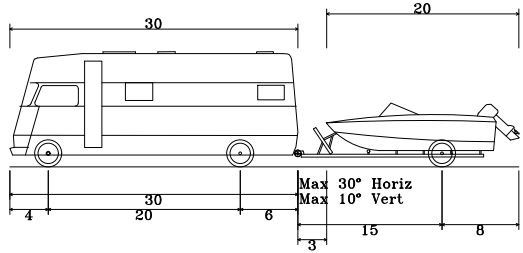


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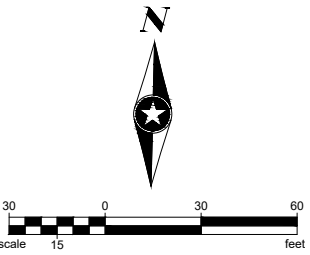
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SWEPT PATH —

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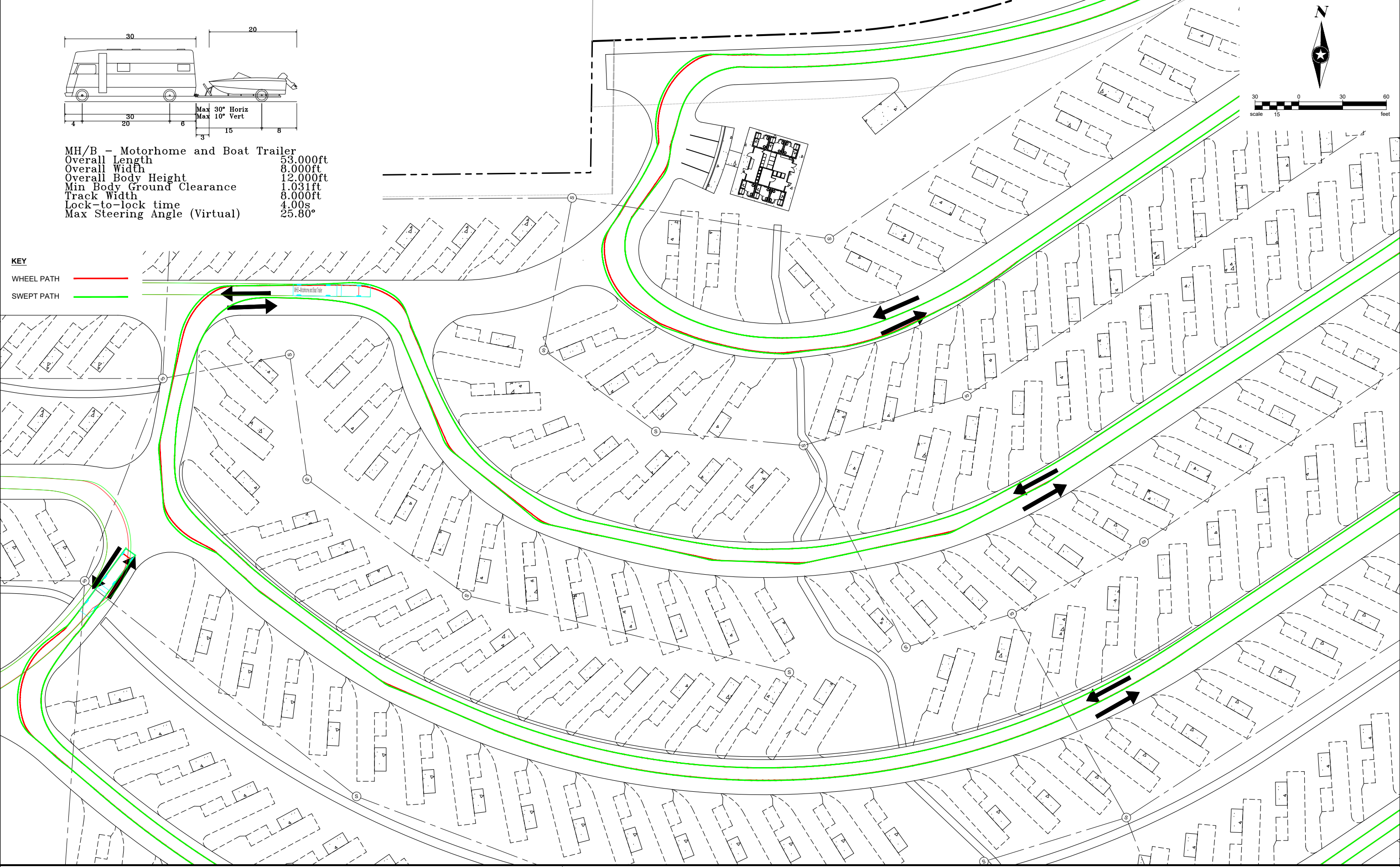


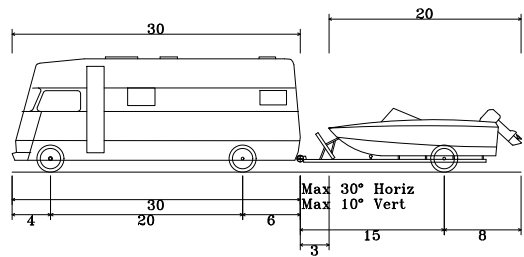


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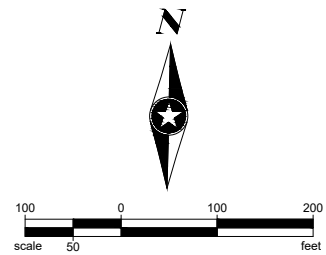


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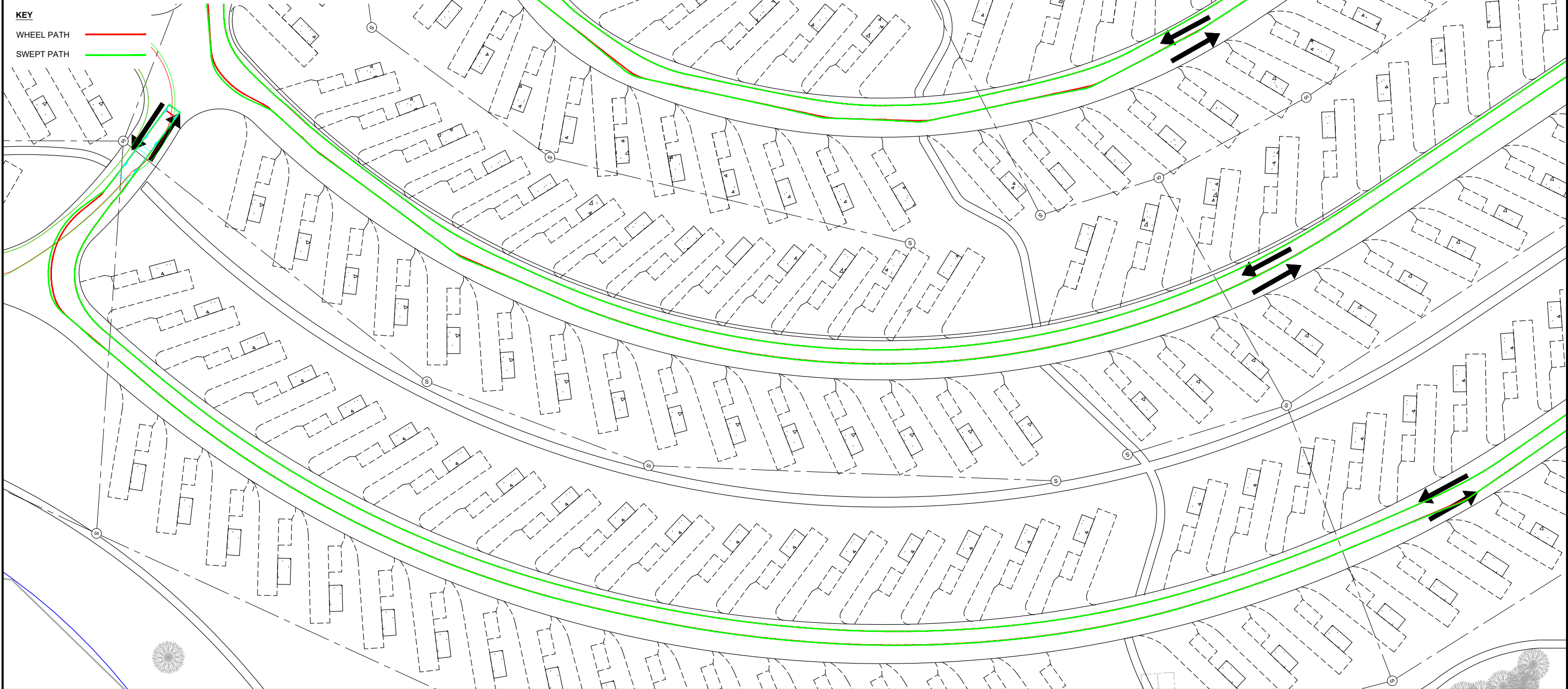


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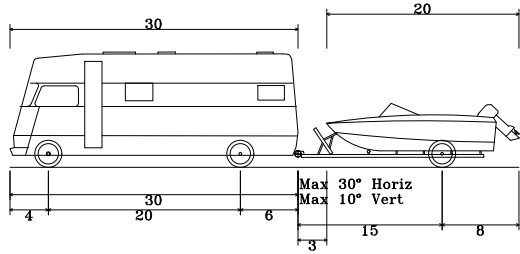


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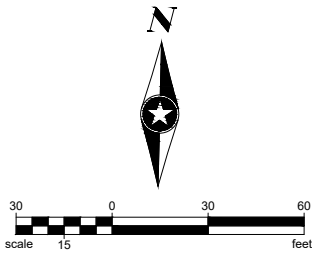
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VILLAGE CAMP DURANGO
DURANGO, COLORADO

VEHICLE TRACKING IV



MH/B - Motorhome and Boat Trailer
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Overall Body Height 12.000ft
Min Body Ground Clearance 1.031ft
Track Width 8.000ft
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Max Steering Angle (Virtual) 25.80°



KEY

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SWEPT PATH —

