

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT #: 21-019
HSA
Heckendorn Shiles Architects

PROJECT TEAM

CLIENT
Tredyffrin/Easttown School District
940 West Valley Road, Suite 1700
Wayne, PA 19087
(610) 240-1900

ARCHITECTURAL
Heckendorn Shiles Architects
347 East Conestoga Road
Wayne, PA 19087
610-994-3500

STRUCTURAL ENGINEER
N/A

MEPFP ENGINEER
Schiller and Hersh Associates, Inc.
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
(215) 886-8947

SITE / CIVIL
Pennoni Associates, Inc
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

MISC DISCIPLINE
N/A

NOT FOR
CONSTRUCTION

GENERAL CONSTRUCTION AND GRADING NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS, AS APPLICABLE:
 - PENNDOT SPECIFICATION, PUB 408/2807 OR LATEST REVISION.
 - PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, PUBLICATION 72, LAST REVISED 9/1908 OR LATEST REVISION.
 - PENNDOT HANDBOOK OF APPROVED SIGNS, PUB 236/2006 OR LATEST REVISION.
 - AMERICANS WITH DISABILITIES ACT OF JULY 1991 AS AMENDED.
 - THE PENNSYLVANIA CLEAN STREAM LAW (22 P.S. SECTION 691.1 ET. SEQ.).
 - REGULATIONS OF PA CODE TITLE 25, CHAPTER 102.
 - MUNICIPALITY'S STANDARDS AND SPECIFICATIONS (LATEST EDITION).
 - IN EVENT OF A CONFLICT AMONG THESE REQUIREMENTS AND/OR PLANS, THE MORE RESTRICTIVE REGULATION SHALL APPLY OR A CLARIFICATION SHALL BE OBTAINED FROM THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO REVIEW AND ABIDE BY SPECIFICATIONS OF THE PLAN AND ALL SUPPORTING DOCUMENTS, PERMITS, AND REPORTS FOR THIS SITE, INCLUDING NOT BUT NOT LIMITED TO:
 - EROSION AND SEDIMENTATION CONTROL PLAN (IF APPLICABLE).
 - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (IF APPLICABLE).
- THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERROR THEY DISCOVER IN THE PLANS.
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- DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE OF THE WORK TO BE UNACCEPTABLE.
- CONTRACTOR SHALL RESET EXISTING MANHOLE RIMS AND UTILITY STRUCTURES TO FINISHED GRADE. CONTRACTOR SHALL COORDINATE DETAIL WITH RESPECTIVE UTILITY COMPANIES.
- MAXIMUM SIDEWALK CROSS SLOPE IS 2% AND MINIMUM SIDEWALK CROSS SLOPE IS 0.5%.
- MINIMUM PAVEMENT GRADE SHALL BE 1.0% UNLESS NOTED OTHERWISE.
- UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATIONS. THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION. THE CONTRACTOR SHOULD SEEK ASSISTANCE FROM ALL UTILITY COMPANIES TO LOCATE AND PROTECT THEIR FACILITIES. IF CONFLICTS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER FOR INSTRUCTION BEFORE PROCEEDING WITH WORK.
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- TRAFFIC CONTROL METHODS, SUCH AS BARRICADES, SUFFICIENT LIGHTS, SIGNS, ETC., MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION.
- HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO BUILDINGS NEAR CONSTRUCTION. IN TIME OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC., WITH A MINIMUM WIDTH OF 20 FEET. ACCESS TO BUILDINGS THAT HAVE SPRINKLER OR STANDPIPE SYSTEMS SHALL BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTOR. (INPA 1141.3-1)
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONALLY BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN COMPACTED FILL THICKNESS. A REPORT FROM A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER. EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE, NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SOIL TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER, AND TO THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
- ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY MUST COMPLY WITH THE MUNICIPALITY'S AND/OR PENNDOT STANDARDS AND SPECIFICATIONS.
- ALL PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- ALL PAVEMENT MARKINGS ON PRIVATE PROPERTY SHALL CONFORM TO CURRENT MUTCD STANDARDS.
- BUILDING ENTRANCES AND GRADES TO BE IN ACCORDANCE WITH ARCHITECTURAL AND LANDSCAPE PLANS.
- UNSTABLE SOILS TO BE UNDERCUT, REMOVED, AND REPLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- TOPSOIL MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE SAVED AND REDISTRIBUTED ON ALL REGRADED SURFACES - SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING AND PLANTING.
- MATERIALS AND CONSTRUCTION STANDARDS FOR STREETS, CURBS, AND GUTTERS; STORM AND SANITARY SEWERS, AND, SIDEWALKS, SHALL CONFORM TO BOROUGH STANDARDS. CONSTRUCTION AND INSTALLATION OF ALL FACILITIES SHALL CONFORM TO BOROUGH SPECIFICATIONS AND BE SUBJECT TO INSPECTION BY APPROPRIATE BOROUGH OFFICIALS. CONTRACTOR TO ASSURE SOILS DO NOT COMPRESS WITHIN THE TEMPORARY UTILITY TRENCH DURING CONSTRUCTION. COMPRESSING SOILS FROM CONSTRUCTION ACTIVITY AND HEAVY VEHICLE LOADS COULD DAMAGE TEMPORARY UTILITIES WITHIN TRENCH. CONTRACTOR TO PROVIDE A WORK PLAN WITH DETAILS TO BE SUBMITTED TO ASSURE TEMPORARY UTILITIES WILL NOT BE DAMAGED FROM CONSTRUCTION ACTIVITY.

MATCHLINE (SHEET CS1501)

MATCHLINE (SHEET CS1502)



CALL BEFORE YOU DIG
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
PA ACT 287 OF 1974 REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR
BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 20223192994

0 40' 80'

SHEET 13 OF 51

SHEET TITLE
OVERALL GRADING
PLAN

DRAWING NUMBER

CS1500

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES
ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE
PROJECT. THEY ARE NOT INTENDED OR REPRESENTED
TO BE SUITABLE FOR RELIANCE BY OWNER OR OTHERS ON
THE EXTENSIVENESS OF THE PROJECT OR ON ANY OTHER
PROJECT. ANY RELIANCE WITHOUT WRITTEN VERIFICATION
OR ADAPTATION BY PENNONI ASSOCIATES FOR THE
SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS
SOLE RISK AND WITHOUT LIABILITY OR LEGAL
EXPOSURE TO PENNONI ASSOCIATES. AND OWNERS SHALL
INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES
FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES
ARISING OUT OF OR RESULTING THEREFROM.

Δ	DATE	ISSUED FOR
	03/16/2023	LAND DEVELOPMENT SUBMISSION
1	05/18/2023	REVISED PER TWP COMMENTS
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4	09/26/2023	REV. PER TWP & NPDES REVIEW
5	09/29/2023	REVISED PER ISM REVIEW
6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

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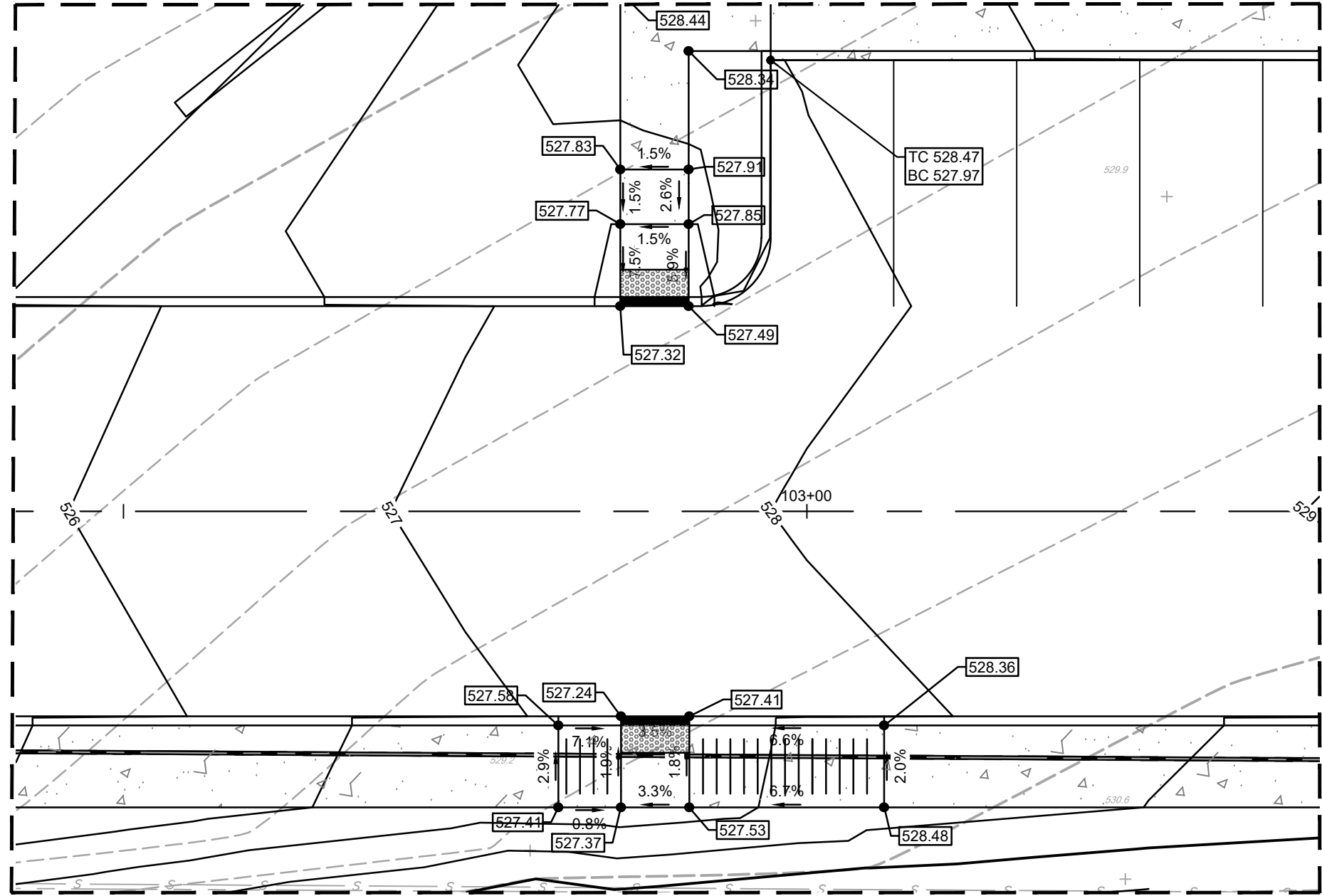
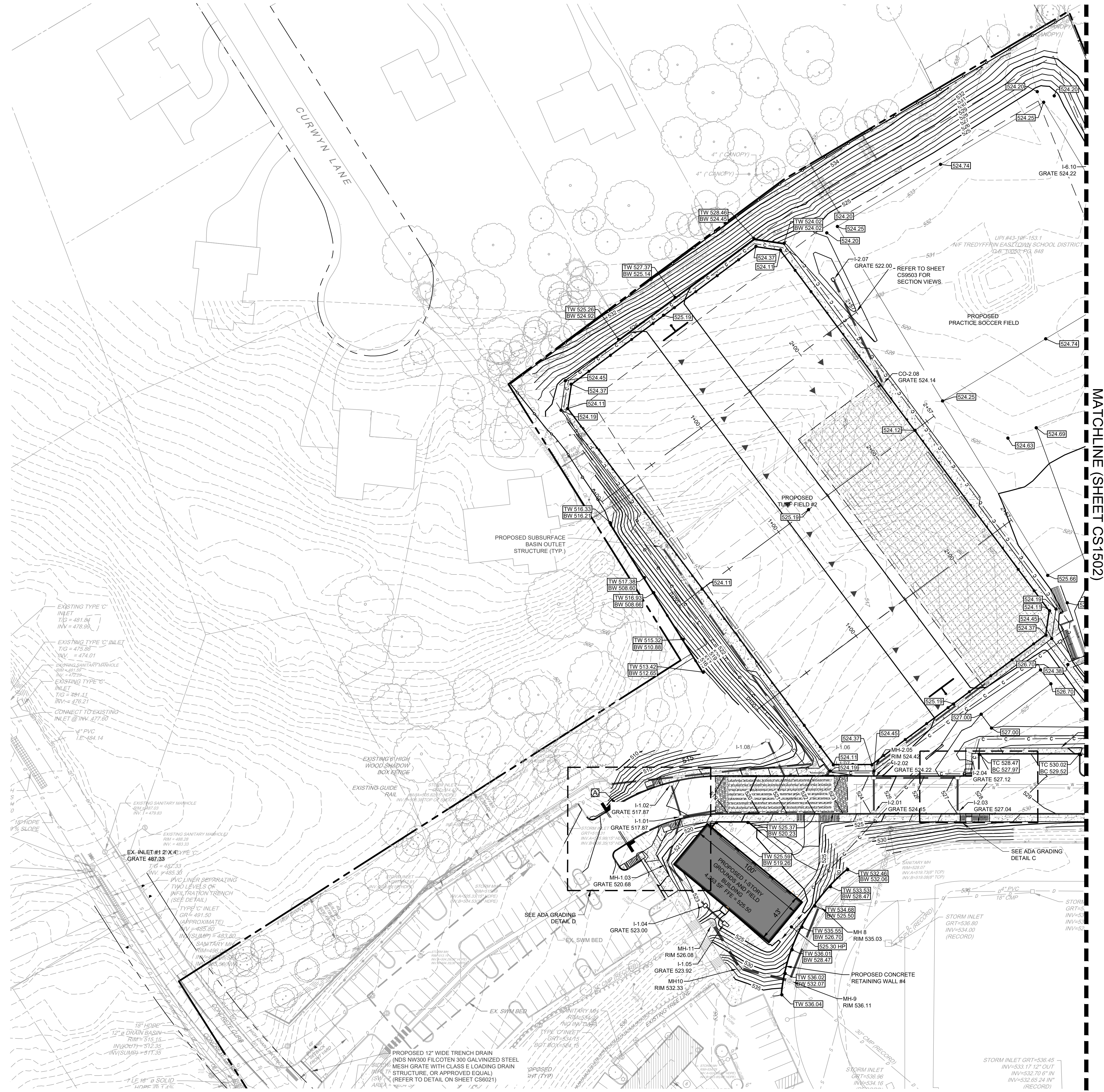
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Pennoni Associates, Inc.
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

MISC DISCIPLINE
N/A

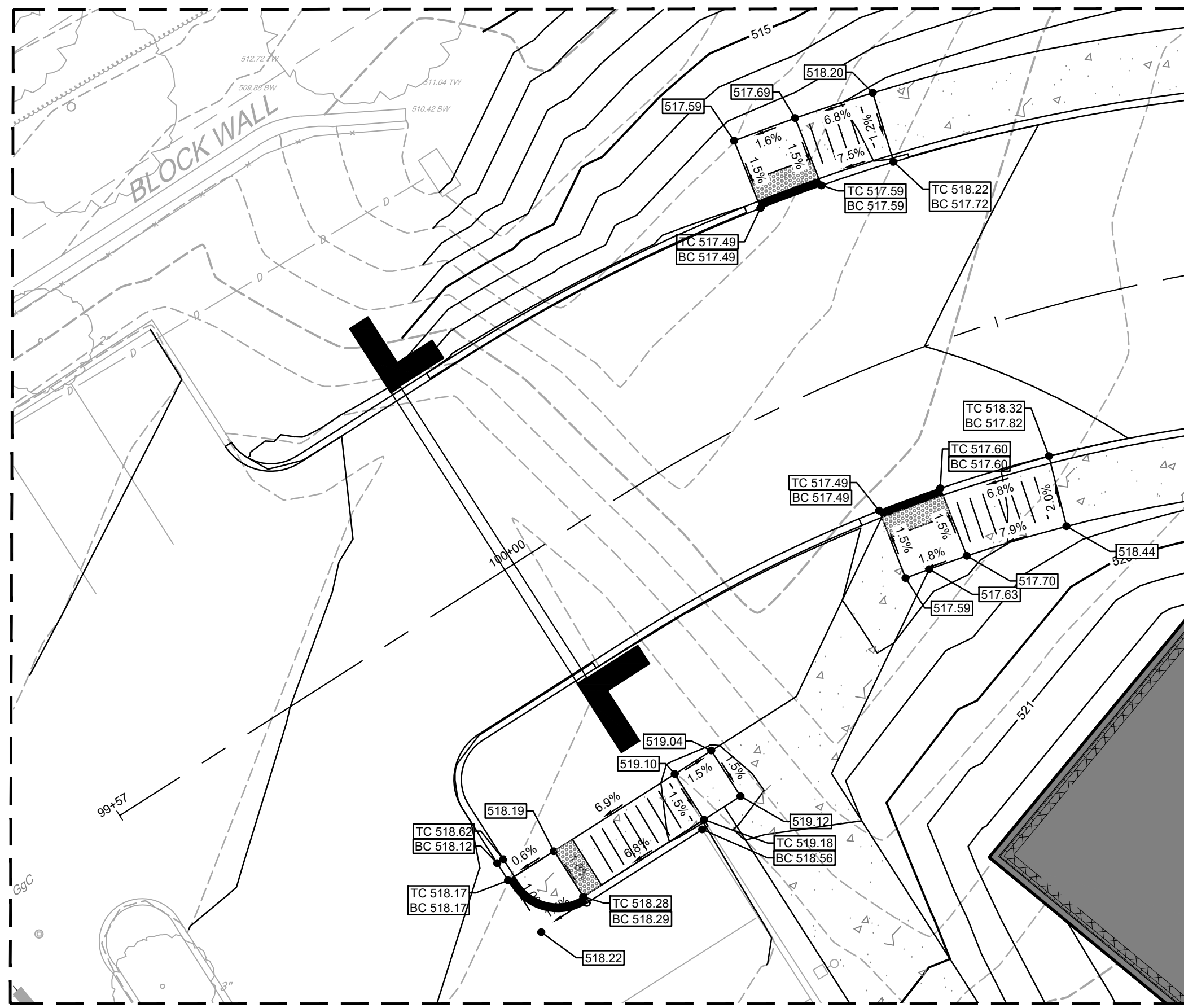
NOT FOR
CONSTRUCTION

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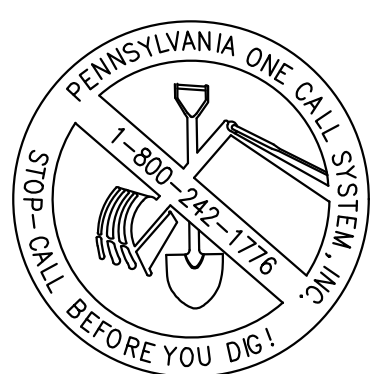
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ADA GRADING DETAIL C



ADA GRADING DETAIL D



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PA ACT 287 OF 1974 REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR
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SERIAL NUMBER(S): 20223192994

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5	09/29/2023	REVISED PER ISM REVIEW
6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

SHEET TITLE

GRADING PLAN

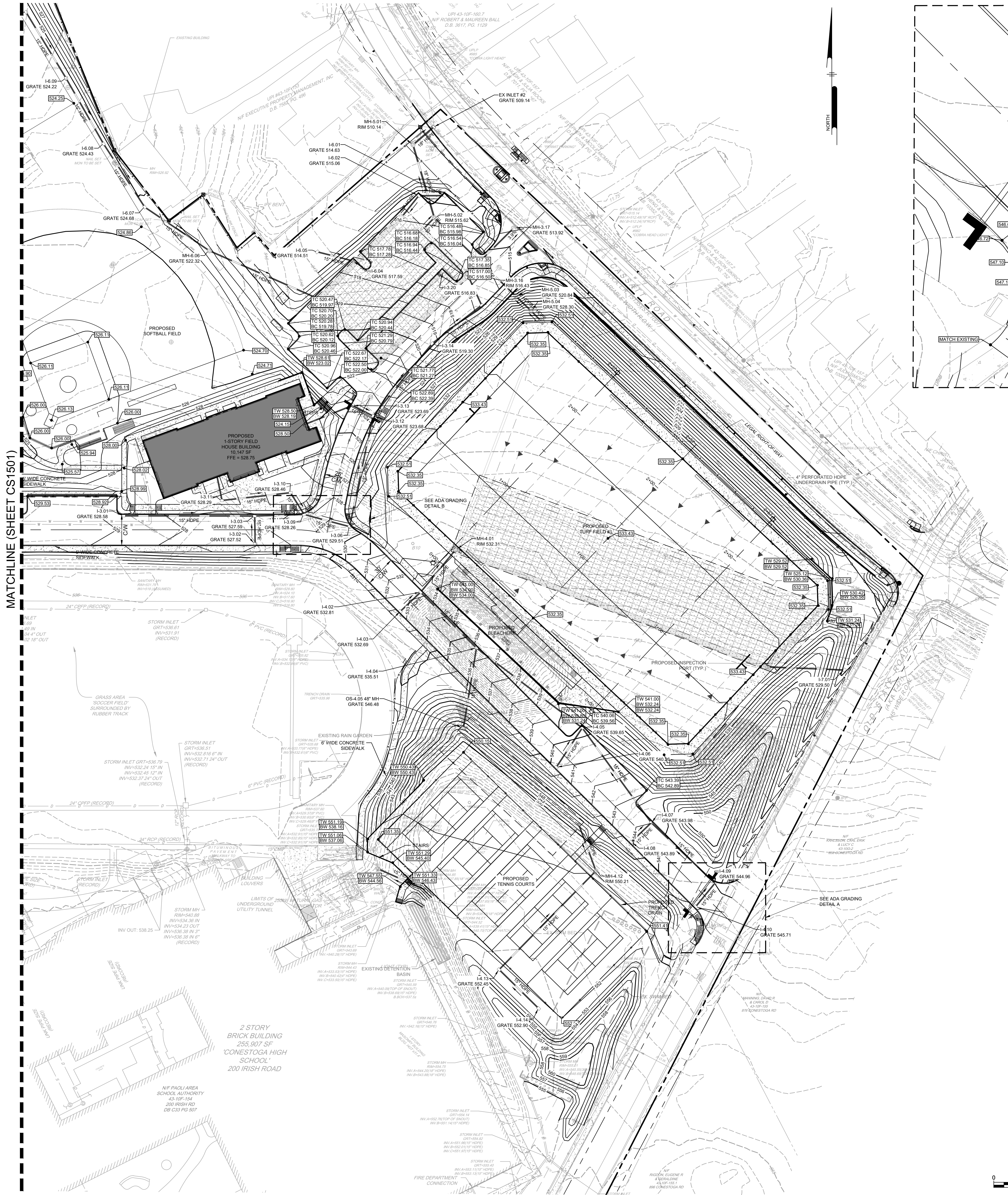
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CS1501

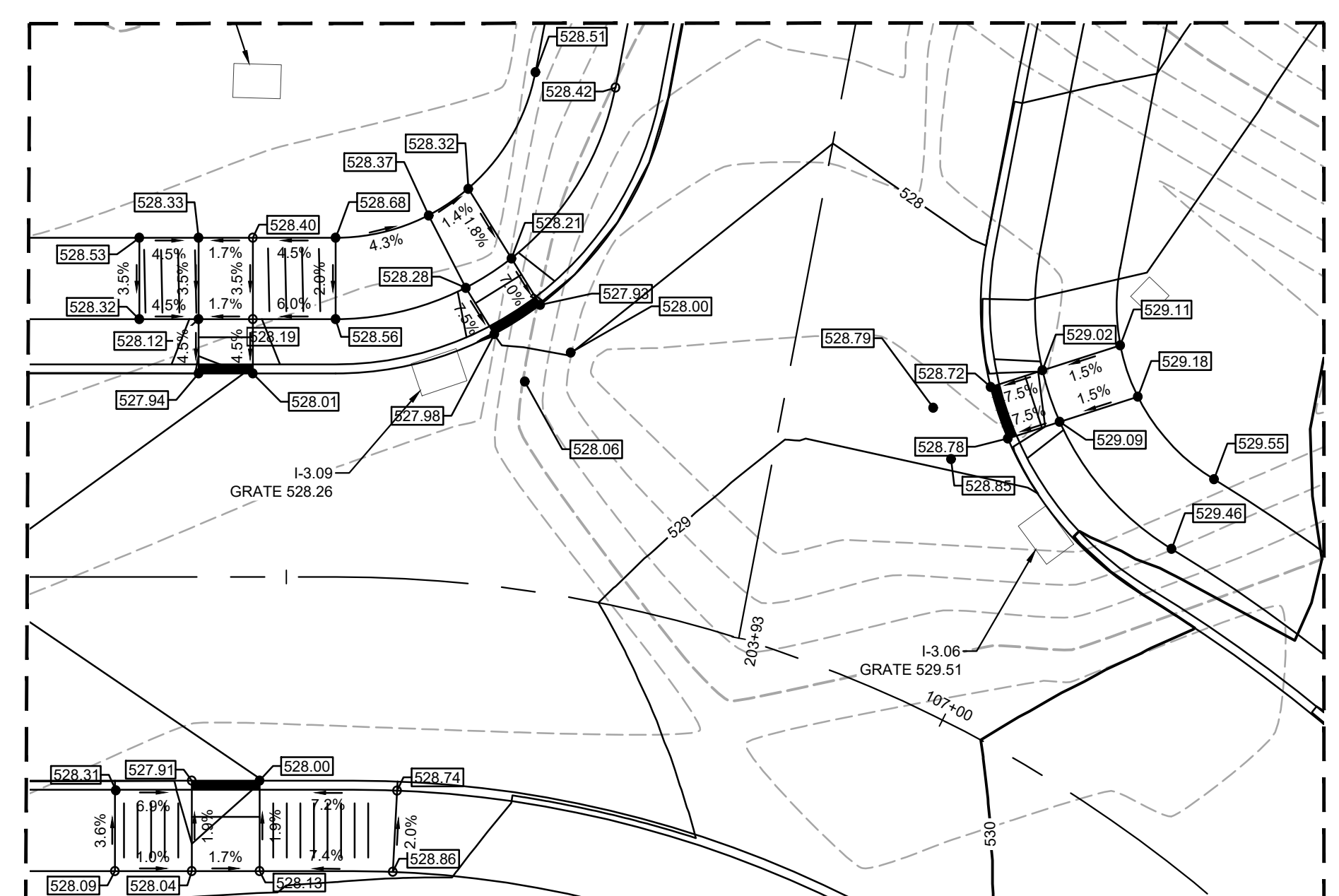
SHEET 14 OF 51

MATCHLINE (SHEET CS1501)

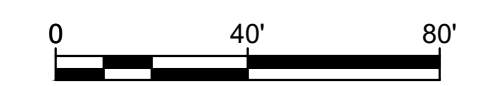
PROJECT STATUS: RUTTED: 03/26/2023 09:57 AM BY: [redacted] PLUSTITLE: Pennon Associates, Inc. PROJECT STATUS: RUTTED: 03/26/2023 09:57 AM BY: [redacted] PLUSTITLE: Pennon Associates, Inc.



ADA GRADING DETAIL A



ADA GRADING DETAIL B



- GENERAL CONSTRUCTION AND GRADING NOTES:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS, AS APPLICABLE:
 - 1.1. PENNDOT SPECIFICATION, PUB 408/2007 OR LATEST REVISION.
 - 1.2. PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, PUBLICATION 72, LAST REVISED 9/1988 OR LATEST REVISION.
 - 1.3. PENNDOT HANDBOOK OF APPROVED SIGNS, PUB 236/2006 OR LATEST REVISION.
 - 1.4. AMERICANS WITH DISABILITIES ACT OF JULY 1991 AS AMENDED.
 - 1.5. THE PENNSYLVANIA CLEAN STREAM LAW (35 P.S. SECTION 691.1 ET. SEQ.).
 - 1.6. REGULATIONS OF PA CODE TITLE 26, CHAPTER 102.
 - 1.7. MUNICIPALITY'S STANDARDS AND SPECIFICATIONS (LATEST EDITION).
 - 1.8. IN EVENT OF A CONFLICT AMONG THESE REQUIREMENTS AND/OR PLANS, THE MORE RESTRICTIVE REGULATION SHALL APPLY OR A CLARIFICATION SHALL BE OBTAINED FROM THE ENGINEER.
 2. THE CONTRACTOR SHALL BE REQUIRED TO REVIEW AND ABIDE BY SPECIFICATIONS OF THE PLAN AND ALL SUPPORTING DOCUMENTS, PERMITS, AND REPORTS FOR THIS SITE, INCLUDING NOT BUT NOT LIMITED TO:
 - 2.1. EROSION AND SEDIMENTATION CONTROL PLAN (IF APPLICABLE).
 - 2.2. POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (IF APPLICABLE).
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 5. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE OF THE WORK TO BE UNACCEPTABLE.
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 13. HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.
 14. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO BUILDINGS UNDER CONSTRUCTION. IN TIME OF RAIN OR MUD, ROADS SHALL BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC., WITH A MINIMUM WIDTH OF 20 FEET. ACCESS TO STORM PIPES, ADDITIONALLY BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
 15. BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONALLY BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREAS. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
 16. BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY (ASTM D998). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX (6) INCHES IN COMPACTED FILL THICKNESS. A REPORT FROM A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 17. THE CONTRACTOR WILL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS AND HAVING SPECIFIC PAY ITEMS IN THE DETAILED ESTIMATE. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
 18. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 19. SOIL TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS. THE GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, THE OWNER, AND TO THE OWNER'S REPRESENTATIVE AND SHALL PROMPTLY NOTIFY THE OWNER, HIS REPRESENTATIVE AND THE CONTRACTOR, SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.
 20. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY MUST COMPLY WITH THE MUNICIPALITY'S AND/OR PENNDOT STANDARDS AND SPECIFICATIONS.
 21. ALL PERMITS MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
 22. ALL PAVEMENT MARKINGS ON PRIVATE PROPERTY SHALL CONFORM TO CURRENT MUTCD STANDARDS.
 23. BUILDING ENTRANCES AND GRADES TO BE IN ACCORDANCE WITH ARCHITECTURAL AND LANDSCAPE PLANS.
 24. UNSTABLE SOILS TO BE UNDERCUT, REMOVED, AND REPLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
 25. TOPSOIL MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE SAVED AND REDISTRIBUTED ON ALL REGRADED SURFACES - SO AS TO PROVIDE AT LEAST FOUR INCHES OF EVEN COVER TO ALL DISTURBED AREAS OF THE DEVELOPMENT AND SHALL BE STABILIZED BY SEEDING AND PLANTING.
 26. MATERIALS AND CONSTRUCTION STANDARDS FOR STREETS, CURBS, AND GUTTERS; STORM AND SANITARY SEWERS AND SIDEWALKS, SHALL CONFORM TO BOROUGH STANDARDS. CONSTRUCTION AND INSTALLATION OF ALL FACILITIES SHALL CONFORM TO BOROUGH SPECIFICATIONS AND BE SUBJECT TO INSPECTION BY APPROPRIATE BOROUGH OFFICIALS. CONTRACTOR TO ASSURE SOILS DO NOT COMPRESS WITHIN THE TEMPORARY UTILITY TRENCH DURING CONSTRUCTION. COMPRESSING SOILS FROM CONSTRUCTION ACTIVITY AND HEAVY VEHICLE LOADS COULD DAMAGE TEMPORARY UTILITIES WITHIN TRENCH. CONTRACTOR TO PROVIDE A WORK PLAN WITH DETAILS TO BE SUBMITTED TO ASSURE TEMPORARY UTILITIES WILL NOT BE DAMAGED FROM CONSTRUCTION ACTIVITY.

TESD CONESTOGA ATHLETIC FIELDS

TREDDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT #: 21-019

HSA
Heckendorn Shiles Architects

PROJECT TEAM

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MISC DISCIPLINE
N/A

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A	DATE	ISSUED FOR
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2	06/14/2023	REVISED PER COCD COMMENTS
3	07/20/2023	REVISED PER TWP REVIEW
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6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

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SHEET 15 OF 51

CS1502

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019



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SHEET TITLE
OVERALL UTILITY
PLAN

DRAWING NUMBER

CS1700

MATCHLINE (SHEET CS1701)

MATCHLINE (SHEET CS1702)

0 80' 160'

SHEET 16 OF 51



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SERIAL NUMBER(S): 20223192994

\\ms001\resources\B04036 - TESD - Nursery Property Development\CS1700 - SITE UTILITIES\1700.dwg PLOTTED: 11/20/24 5:29 PM BY: [Name Redacted] PLOT STYLE: Pennoni.ncs,sh PROJECT STATUS: —

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019



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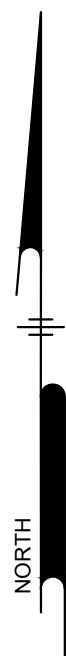
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MISC DISCIPLINE
N/A

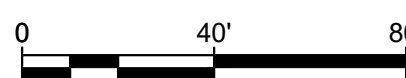
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MATCHLINE (SHEET CS1702)



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SHEET 17 OF 51

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SHEET TITLE

UTILITY PLAN

DRAWING NUMBER

CS1701

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019



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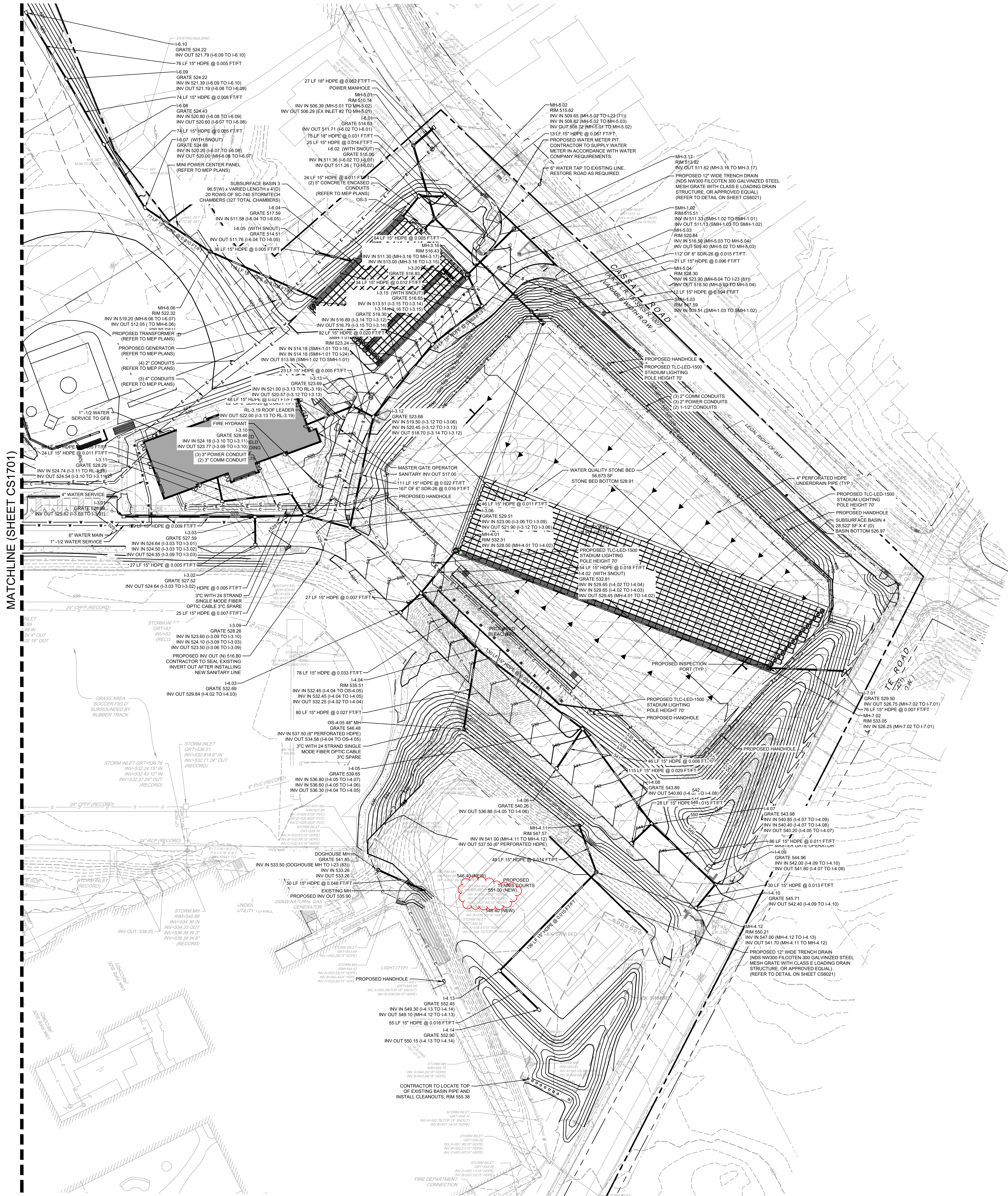
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SHEET TITLE

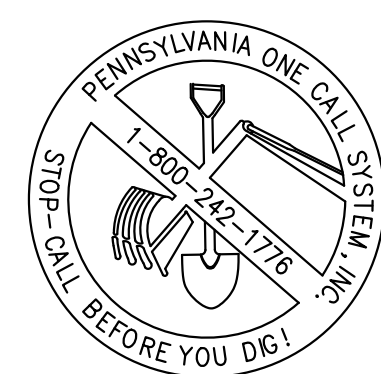
UTILITY PLAN

DRAWING NUMBER

CS1702



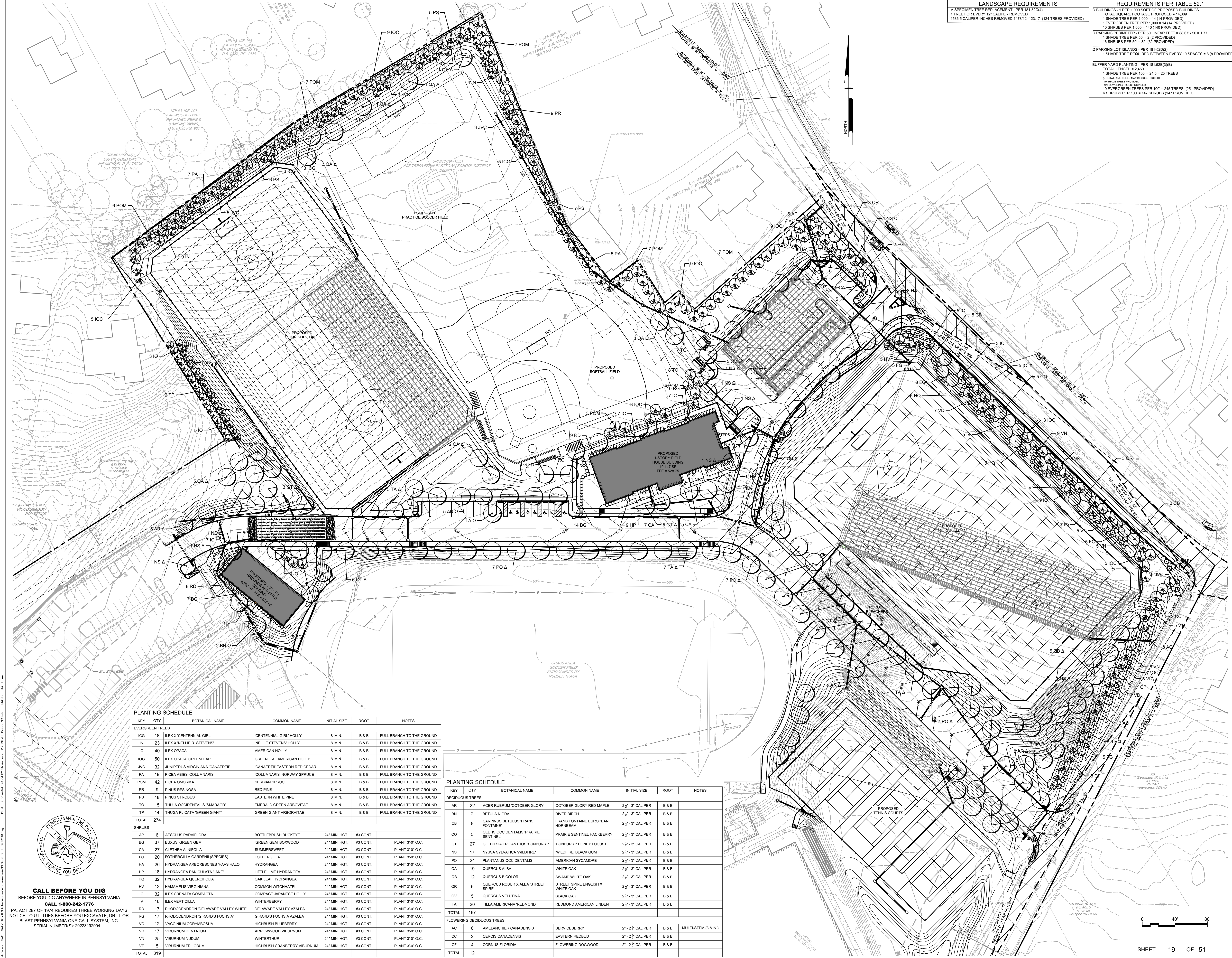
MATCHLINE (SHEET CS1701)



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SERIAL NUMBER(S): 20223192994

0 40' 80'

SHEET 18 OF 51



LANDSCAPE REQUIREMENTS	REQUIREMENTS PER TABLE 52.1
Δ SPECIMEN TREE REPLACEMENT - PER 181-52(C4) 1 TREE FOR EVERY 12' CALIPER REMOVED 1036 5 CALIPER INCHES REMOVED 147/151=123.17 (124 TREES PROVIDED)	Δ BUILDINGS - 1 PER 1,000 SQ FT OF PROPOSED BUILDINGS TOTAL SQUARE FOOTAGE PROPOSED = 14,009 1 SHADE TREE PER 1,000 = 14 (14 PROVIDED) 1 EVERGREEN TREE PER 1,000 = 14 (14 PROVIDED) 10 SHRUBS PER 1,000 = 140 (140 PROVIDED)
	Δ PARKING PERIMETER - PER 50 LINEAR FEET = 88.67 / 50 = 1.77 1 SHADE TREE PER 50' = 2 (2 PROVIDED) 16 SHRUBS PER 50' = 32 (32 PROVIDED)
	Δ PARKING LOT ISLANDS - PER 181-52(C2) 1 SHADE TREE REQUIRED BETWEEN EVERY 10 SPACES = 8 (8 PROVIDED)
	BUFFER YARD PLANTING - PER 181-52(C3)(B) TOTAL LENGTH = 2,450' 1 SHADE TREE PER 100' = 24.5 = 25 TREES (FLOWERING TREES MAY BE SUBSTITUTED) -19 SHADE TREES PROVIDED -25 FLOWERING TREES PROVIDED 10 EVERGREEN TREES PER 100' = 245 TREES (251 PROVIDED) 6 SHRUBS PER 100' = 147 SHRUBS (147 PROVIDED)

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

Heckendorn Shiles Architects

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(610) 429-8907

MISC DISCIPLINE
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NOT FOR
CONSTRUCTION

PLANTING SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	INITIAL SIZE	ROOT	NOTES
EVERGREEN TREES						
ICG	18	ILEX X 'CENTENNIAL GIRL'	'CENTENNIAL GIRL' HOLLY	8' MIN.	B & B	FULL BRANCH TO THE GROUND
IN	23	ILEX X 'NELLIE R. STEVENS'	'NELLIE STEVENS' HOLLY	8' MIN.	B & B	FULL BRANCH TO THE GROUND
IO	40	ILEX OPACA	AMERICAN HOLLY	8' MIN.	B & B	FULL BRANCH TO THE GROUND
IOG	50	ILEX OPACA 'GREENLEAF'	GREENLEAF AMERICAN HOLLY	8' MIN.	B & B	FULL BRANCH TO THE GROUND
JVC	32	JUNIPERUS VIRGINIANA 'CANAERTII'	'CANAERTII' EASTERN RED CEDAR	8' MIN.	B & B	FULL BRANCH TO THE GROUND
PA	19	PICEA ABIES 'COLUMNARIS'	'COLUMNARIS' NORWAY SPRUCE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
POM	42	PICEA OMORICA	SERBIAN SPRUCE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
PR	9	PINUS RESINOSA	RED PINE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
PS	18	PINUS STROBUS	EASTERN WHITE PINE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
TO	15	THUJA OCCIDENTALIS 'SMARAGO'	EMERALD GREEN ARBOVITAE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
TP	14	THUGA PLICATA 'GREEN GIANT'	GREEN GIANT ARBOVITAE	8' MIN.	B & B	FULL BRANCH TO THE GROUND
TOTAL	274					
SHRUBS						
AP	6	AESCLUS PARVIFLORA	BOTTLEBRUSH BUCKEYE	24" MIN. HGT.	#3 CONT.	
BG	37	BUXUS 'GREEN GEM'	'GREEN GEM' BOXWOOD	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
CA	27	CLETHRA ALNIFOLIA	SLIMMERWEET	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
FS	20	FOTHERGILLIA GARDENII (SPECIES)	FOTHERGILLIA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
HA	16	HYDRANGEA ARBORESCENS 'HAAS HALO'	HYDRANGEA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
HQ	26	HYDRANGEA PANCULATA 'JANE'	LITTLE LIME HYDRANGEA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
HQ	32	HYDRANGEA QUERCIFOLIA	OAK LEAF HYDRANGEA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
HV	12	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
IC	32	ILEX CORNATA COMPACTA	COMPACT JAPANESE HOLLY	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
IV	16	ILEX VERTICILLA	WINTERBERRY	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
RD	17	RHOXODENDRON 'DELAWARE VALLEY WHITE'	DELAWARE VALLEY AZALEA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
RD	17	RHOXODENDRON 'GIRARD'S FUCHSIA'	GIRARD'S FUCHSIA AZALEA	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
RG	17	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
VC	12	VIBURNUM CORYMBOSUM	ARROWWOOD VIBURNUM	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
VI	25	VIBURNUM NUDUM	WINTERTHUR	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
VT	5	VIBURNUM TRILOBUM	HIGHBUSH GRANBERRY VIBURNUM	24" MIN. HGT.	#3 CONT.	PLANT 3'-0" O.C.
TOTAL	319					

PLANTING SCHEDULE						
KEY	QTY	BOTANICAL NAME	COMMON NAME	INITIAL SIZE	ROOT	NOTES
DECIDUOUS TREES						
AR	22	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2 1/2' - 3" CALIPER	B & B	
BN	2	BETULA NIGRA	RIVER BIRCH	2 1/2' - 3" CALIPER	B & B	
CB	8	CARPINUS BETULUS 'FRANS'	FRANS FONTAINE EUROPEAN HORNBEAM	2 1/2' - 3" CALIPER	B & B	
CO	5	CELTIS OCCIDENTALIS 'PRARIE SENTINEL'	PRARIE SENTINEL HACKBERRY	2 1/2' - 3" CALIPER	B & B	
GT	27	GLEDITSIA TRICANTHOS 'SUNBURST'	'SUNBURST' HONEY LOCUST	2 1/2' - 3" CALIPER	B & B	
NS	17	NYSSA SYLVATICA 'WILDFIRE'	'WILDFIRE' BLACK GUM	2 1/2' - 3" CALIPER	B & B	
PO	24	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2 1/2' - 3" CALIPER	B & B	
QA	19	QUERCUS ALBA	WHITE OAK	2 1/2' - 3" CALIPER	B & B	
QB	12	QUERCUS BICOLOR	SWAMP WHITE OAK	2 1/2' - 3" CALIPER	B & B	
QR	6	QUERCUS ROBUR X ALBA 'STREET SPIRE'	STREET SPIRE ENGLISH X WHITE OAK	2 1/2' - 3" CALIPER	B & B	
QV	5	QUERCUS VELUTINA	BLACK OAK	2 1/2' - 3" CALIPER	B & B	
TA	20	TILLA AMERICANA 'REDMOND'	REDMOND AMERICAN LINDEN	2 1/2' - 3" CALIPER	B & B	
TOTAL	167					
FLOWERING DECIDUOUS TREES						
AC	6	AMELANCHIER CANADENSIS	SERVICEBERRY	2" - 2 1/2" CALIPER	B & B	MULTI-STEM (3 MIN.)
CC	2	CERCIS CANADENSIS	EASTERN REDBUD	2" - 2 1/2" CALIPER	B & B	
CF	4	CORNUS FLORIDA	FLOWERING DOGWOOD	2" - 2 1/2" CALIPER	B & B	
TOTAL	12					

UTLITIES: 3/10/2023 5:30 PM BY: [Redacted] PLANTING: 3/10/2023 5:30 PM BY: [Redacted] PROJECT STATUS: [Redacted]



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SHEET TITLE
LANDSCAPING
PLAN

DRAWING NUMBER
CS2001

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019

Heckendorn Shiles Architects

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N/A

MEPFP ENGINEER
Schiller and Hersh Associates, Inc.
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
(215) 886-8947

SITE / CIVIL
Pennoni Associates, Inc.
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

MISC DISCIPLINE
N/A

NOT FOR
CONSTRUCTION

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5	09/29/2023	REVISED PER SSM REVIEW
6	01/17/2024	ISSUED FOR FINAL SUBMISSION
7	03/18/2024	BID ISSUE

SHEET TITLE

LIGHTING PLAN

DRAWING NUMBER

CS2201



CALL BEFORE YOU DIG
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA
CALL 1-800-242-1776
PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR
BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.
SERIAL NUMBER(S): 2022319294

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	LLF	DESCRIPTION	LUM. WATTS	LUM. LUMENS	BUG RATING	MOUNTING HEIGHT
	26	P1	SINGLE	0.900	ILP-SWP-BL-U-30-XX-XX-XX-SWP-ARM3-XX + POLE*	58	8678	B3-U-01	15'
*ILP-SWP FIXTURE PROVIDED FOR CALCULATION PURPOSES ONLY									
CALCULATION SUMMARY									
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN		
DRIVE LANES AND PARKING LOTS	ILLUMINANCE	Fc	1.70	12.2	0.2	8.50	81.00		

NOTES:
1. FIELD USE BY SCHOOL DISTRICT TEAMS WILL NOT BEGIN PRIOR TO 7:30 AM ON FIELDS 1 AND 2.
2. FIELD USE OF FIELDS 1 AND 2 BY SCHOOL DISTRICT TEAMS WILL NOT BEGIN PRIOR TO 3:00 PM DURING THE SCHOOL WEEK.
3. LIGHTING SHOWN ON THIS PLAN ARE THE LIGHTS ASSOCIATED TO THE DRIVEWAYS AND PARKING AREAS ONLY WHICH IS THE TYPICAL CAMPUS CONDITION. LIGHTING ASSOCIATED TO THE ATHLETIC FIELD IS NOT SHOWN "ON" ON THIS PLAN.

TESD CONESTOGA
ATHLETIC FIELDS

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

HSA PROJECT # :21-019
HSA
Heckendorn Shiles Architects

PROJECT TEAM
CLIENT
Tredyffrin/Easttown School District
940 West Valley Road, Suite 1700
Wayne, PA 19087
(610) 240-1900

ARCHITECTURAL
Heckendorn Shiles Architects
347 East Conestoga Road
Wayne, PA 19087
610-994-3500

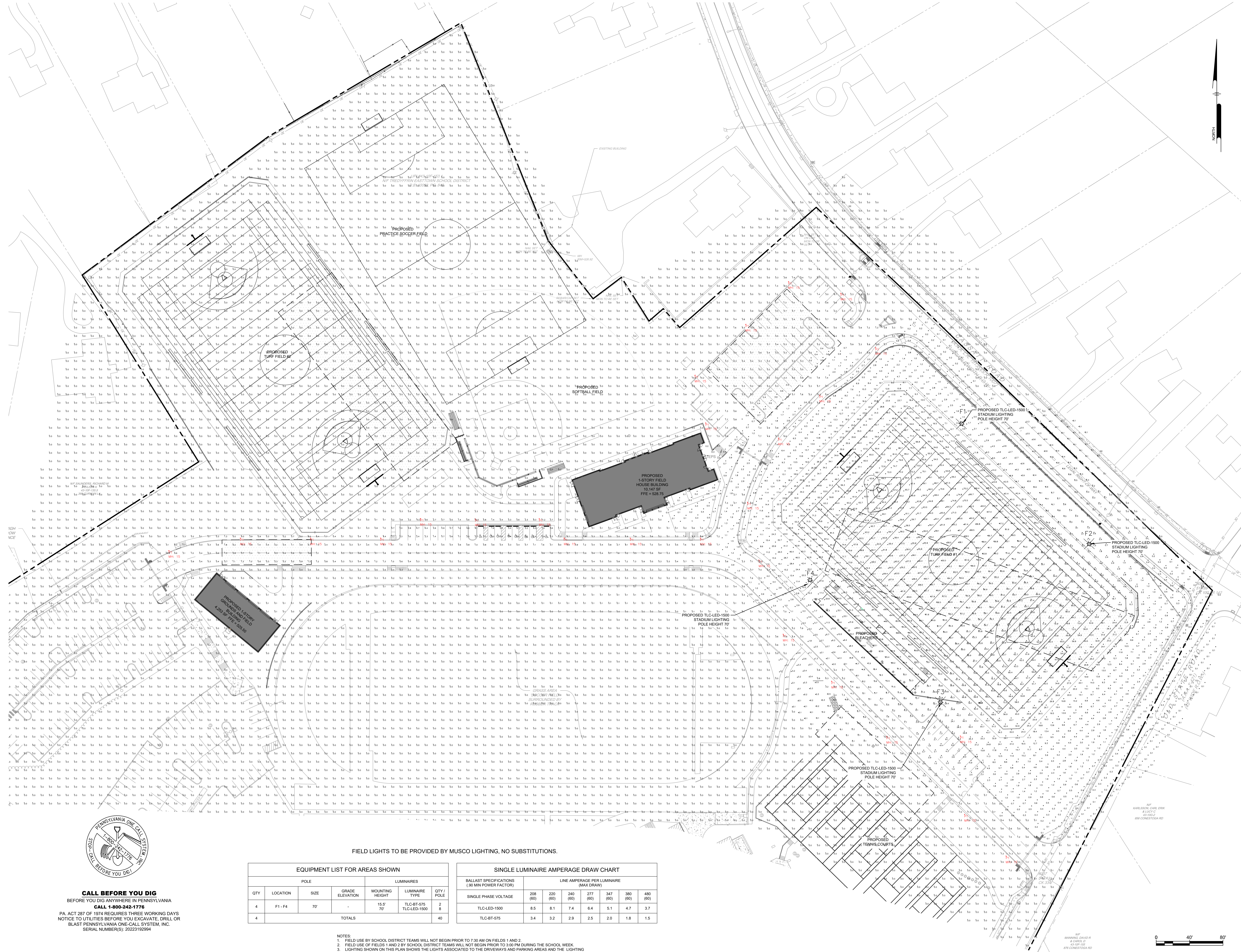
STRUCTURAL ENGINEER
N/A

MEPPF ENGINEER
Schiller and Hersh Associates, Inc.
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
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(610) 429-8907

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PROJECT STATUS: PLOTTED 1/10/2024 10:30 AM BY: [Name] FILED: [Name] PLOTTED: [Name]



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SERIAL NUMBER(S): 2022319294

EQUIPMENT LIST FOR AREAS SHOWN					
POLE			LUMINAIRES		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE
4	F1-F4	70'	-	15' 70'	TL-CBT-675 TL-CLED-1500
4	TOTALS				
4					40

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
BALLAST SPECIFICATIONS (90 MIN POWER FACTOR)				LINE AMPERAGE PER LUMINAIRE (MAX DRAW)			
SINGLE PHASE VOLTAGE				208 (60)	220 (60)	240 (60)	277 (60)
TL-CLED-1500				8.5	8.1	7.4	6.4
TL-CBT-675				3.4	3.2	2.9	2.5

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3. LIGHTING SHOWN ON THIS PLAN SHOWS THE LIGHTS ASSOCIATED TO THE DRIVEWAYS AND PARKING AREAS AND THE LIGHTING ASSOCIATED TO THE ATHLETIC FIELD.

0 40' 80'

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SHEET TITLE

LIGHTING PLAN

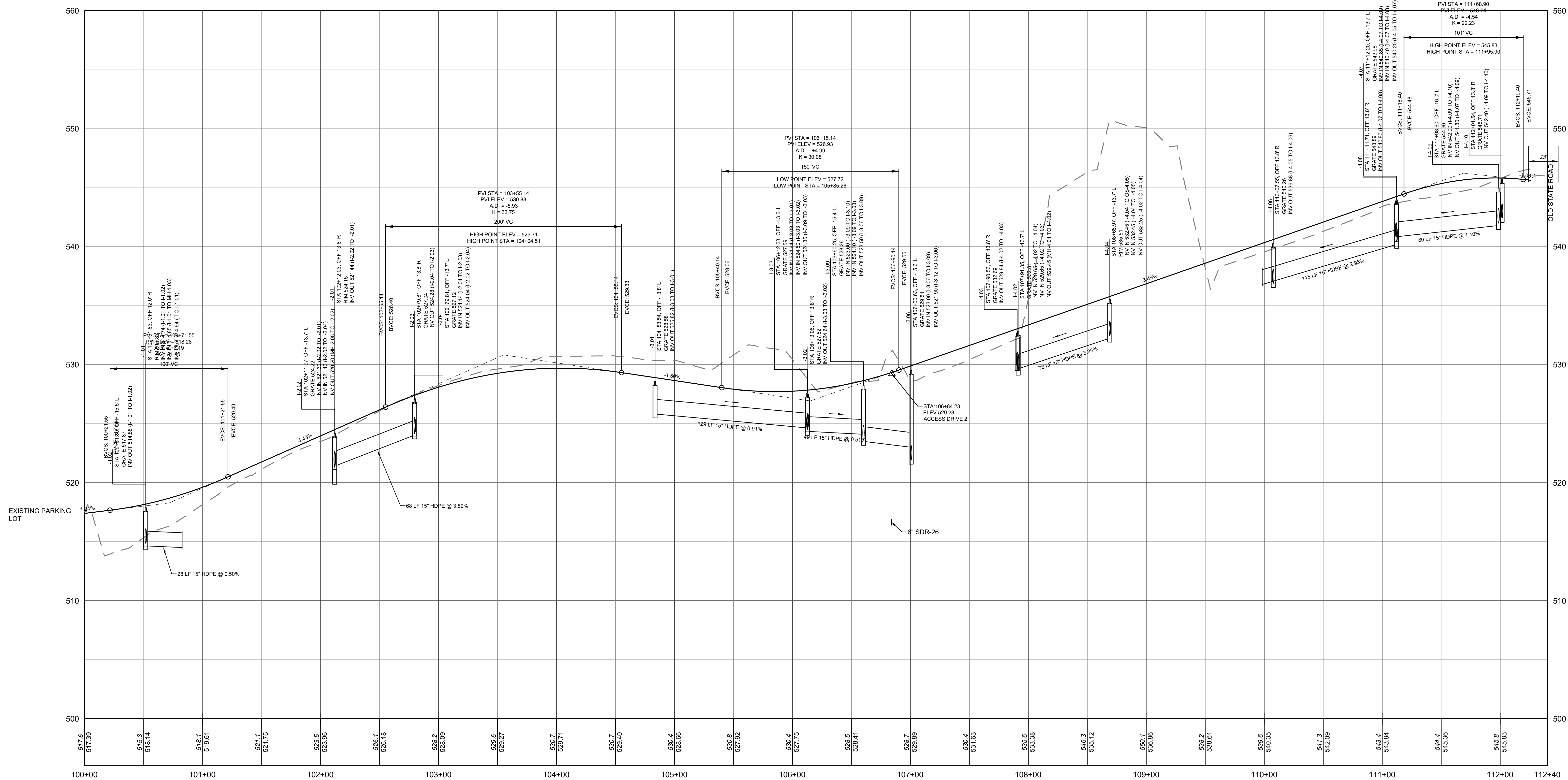
DRAWING NUMBER

CS2202

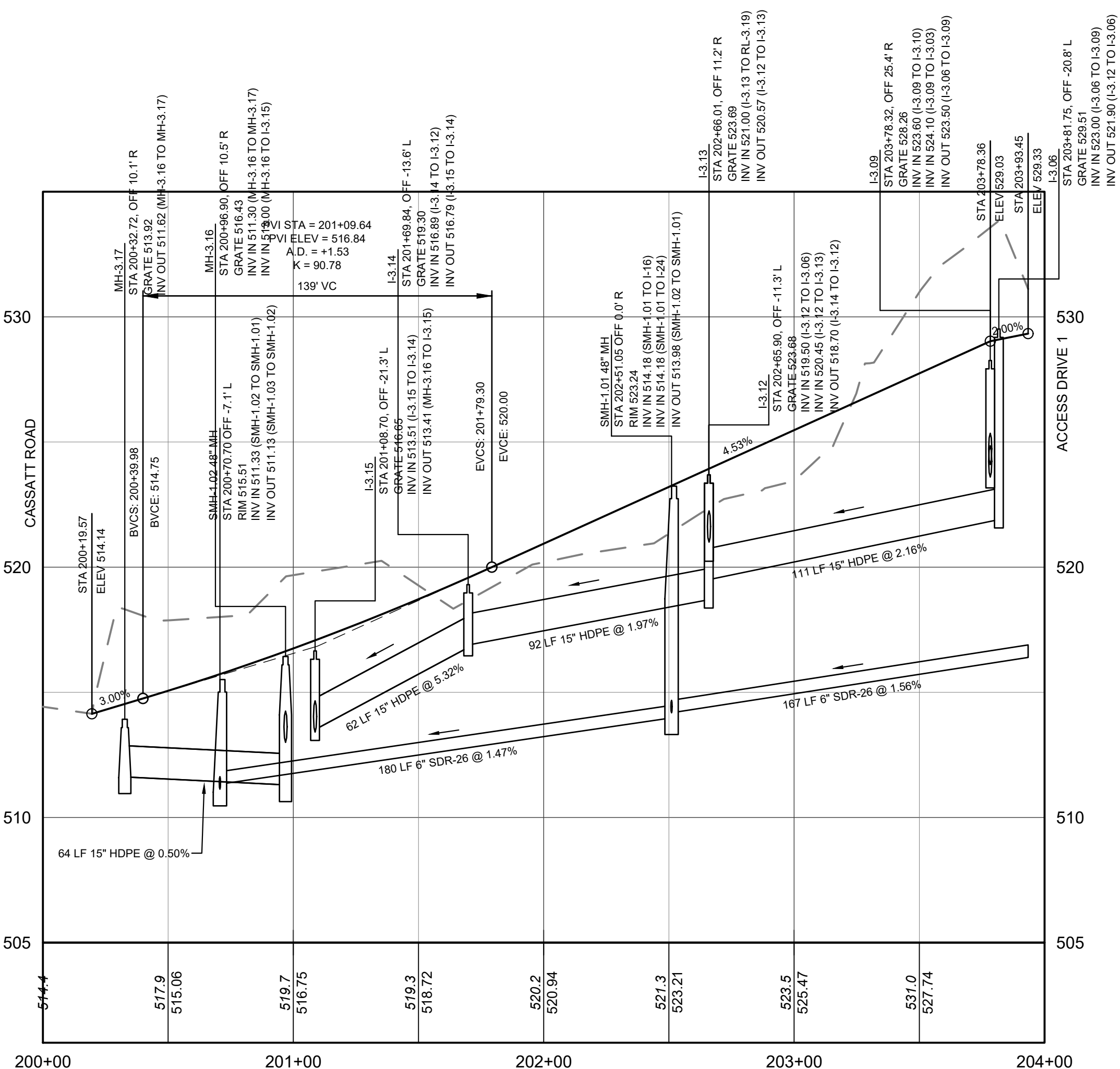
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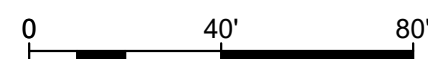
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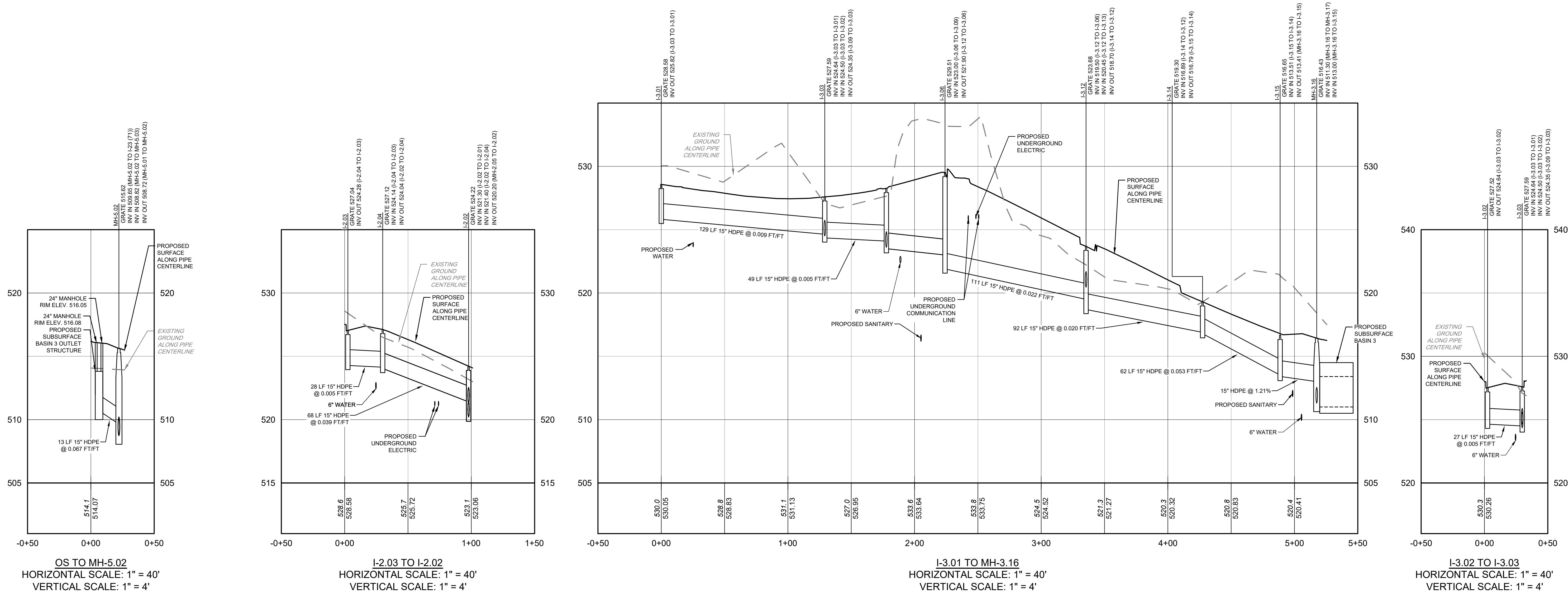
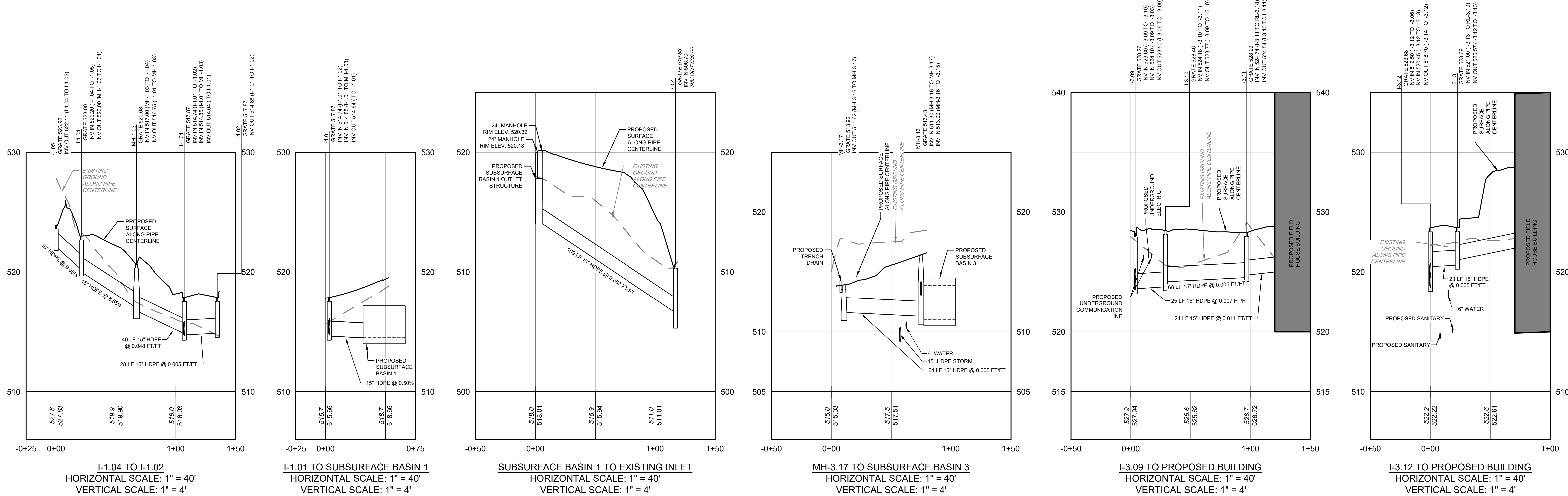
ACCESS DRIVE 1
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



ACCESS DRIVE 2
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



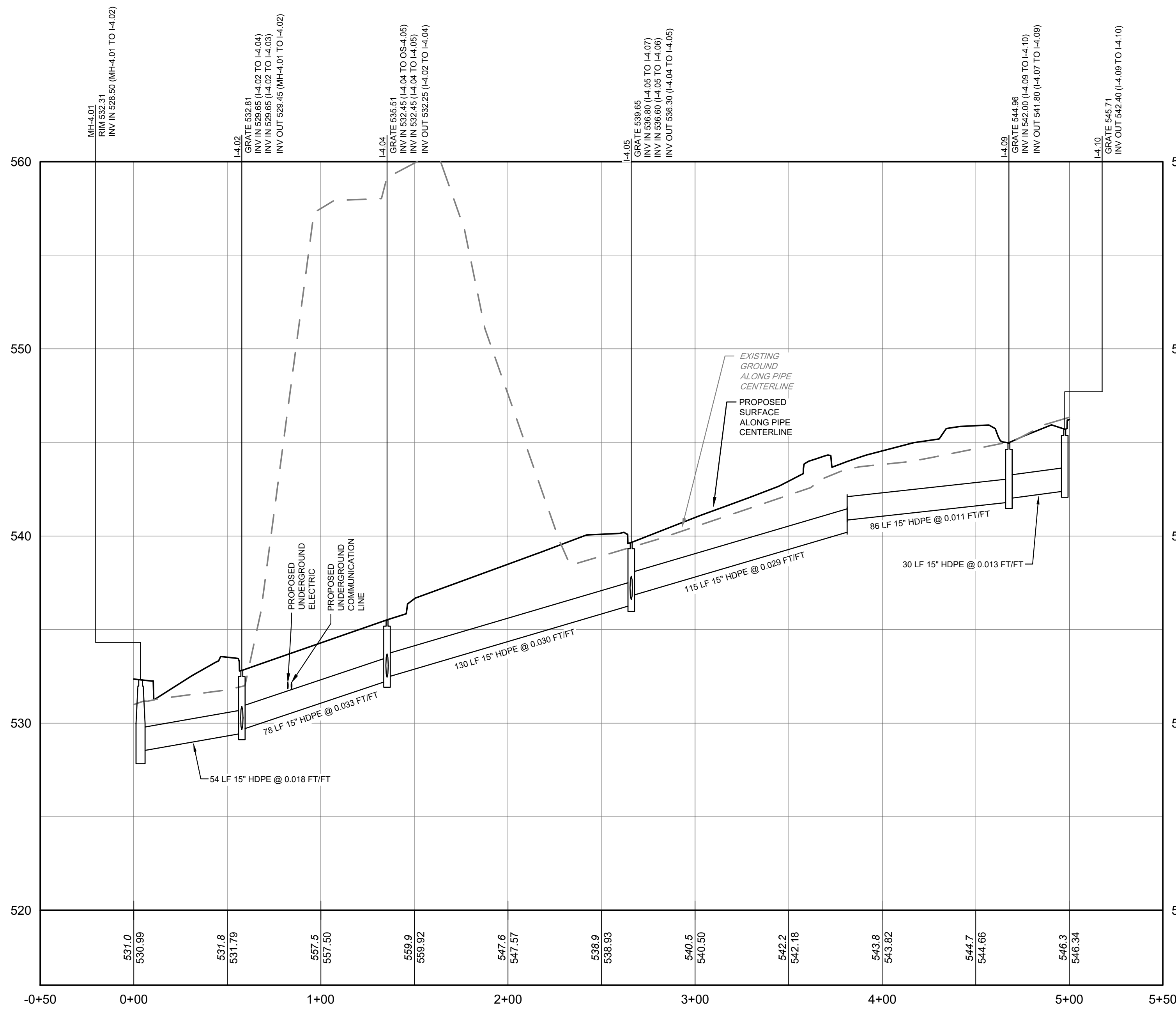
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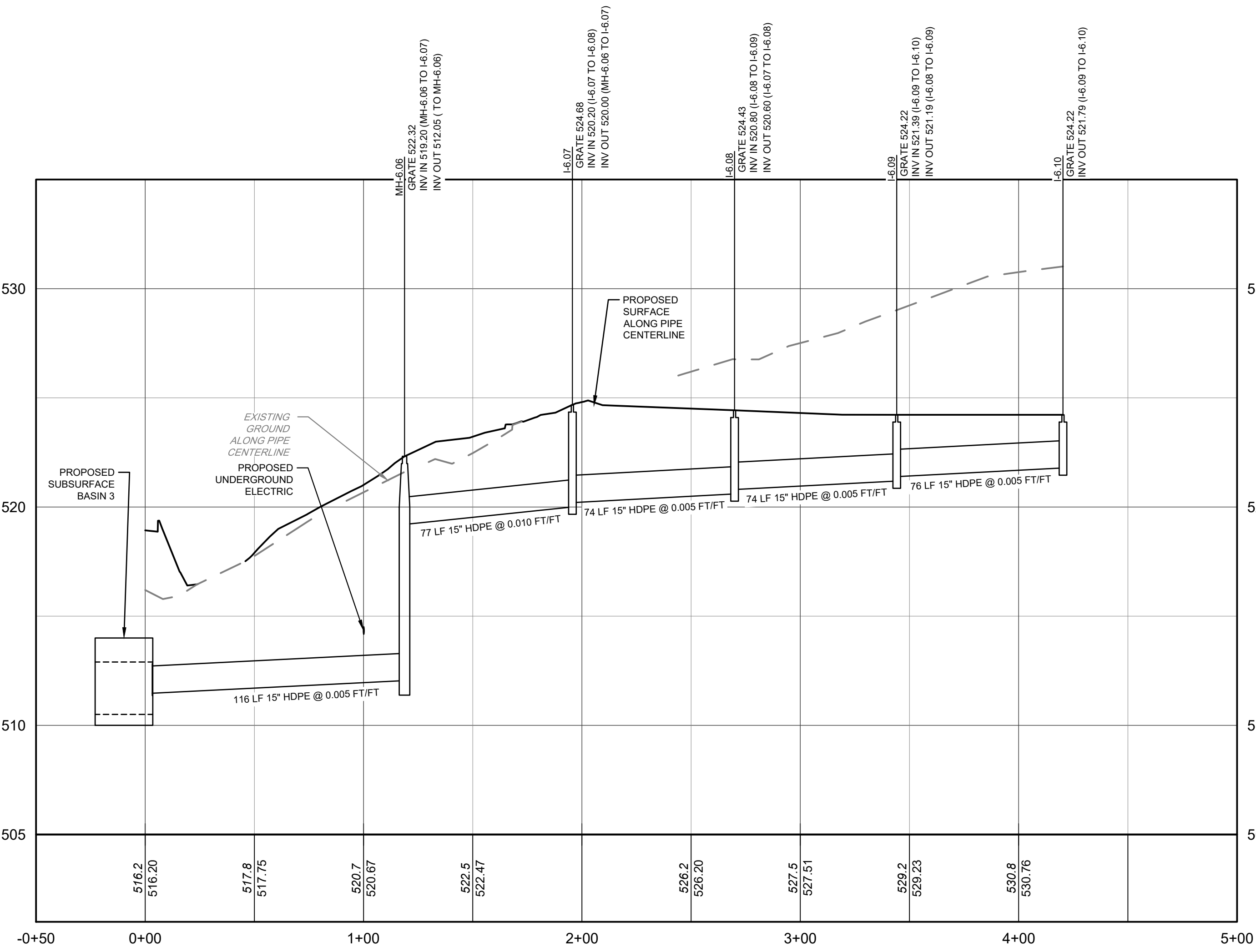
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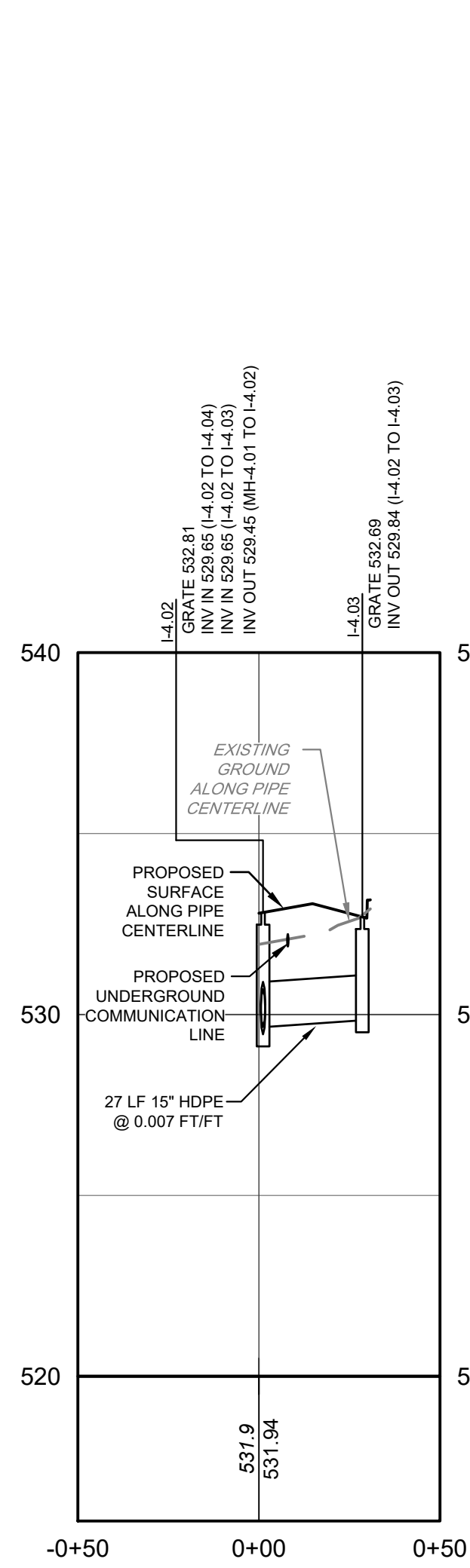
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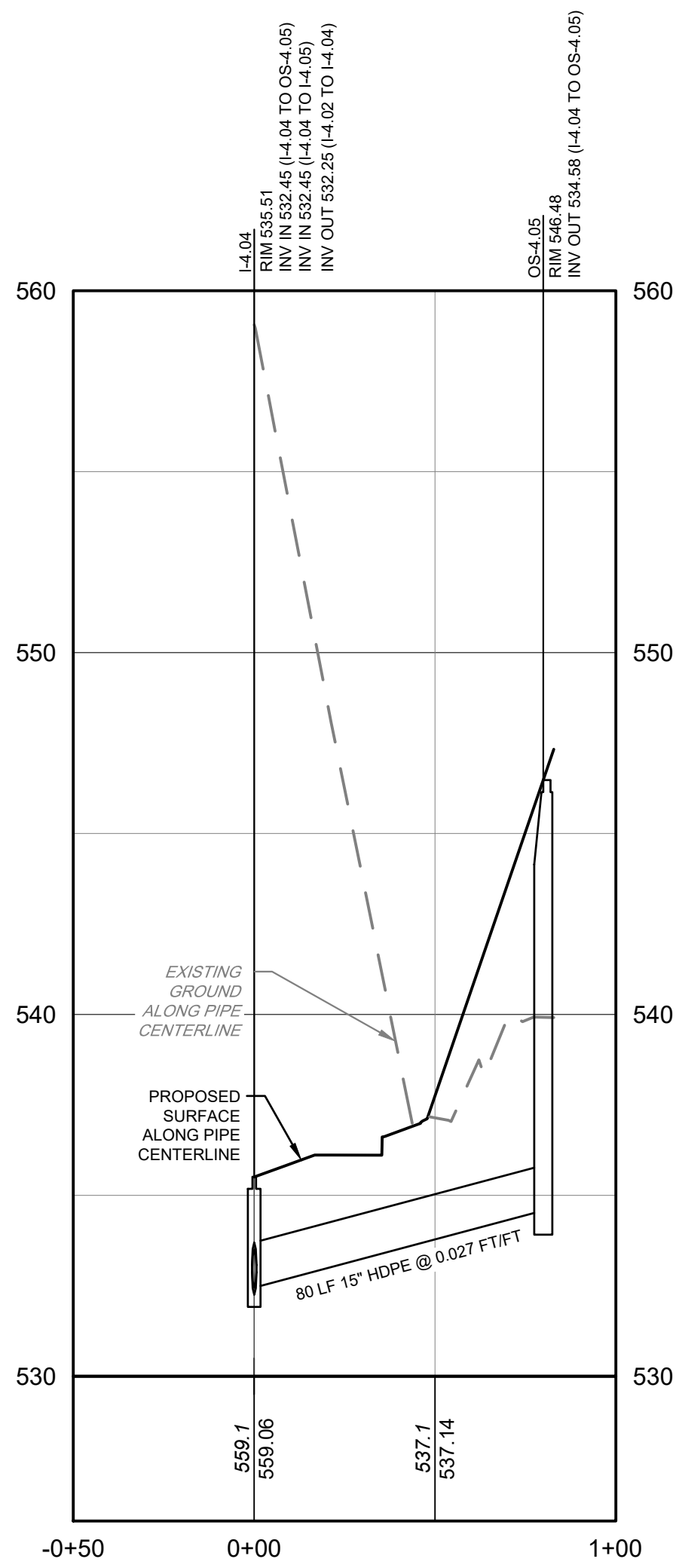
MH-4.01 TO I-4.10
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



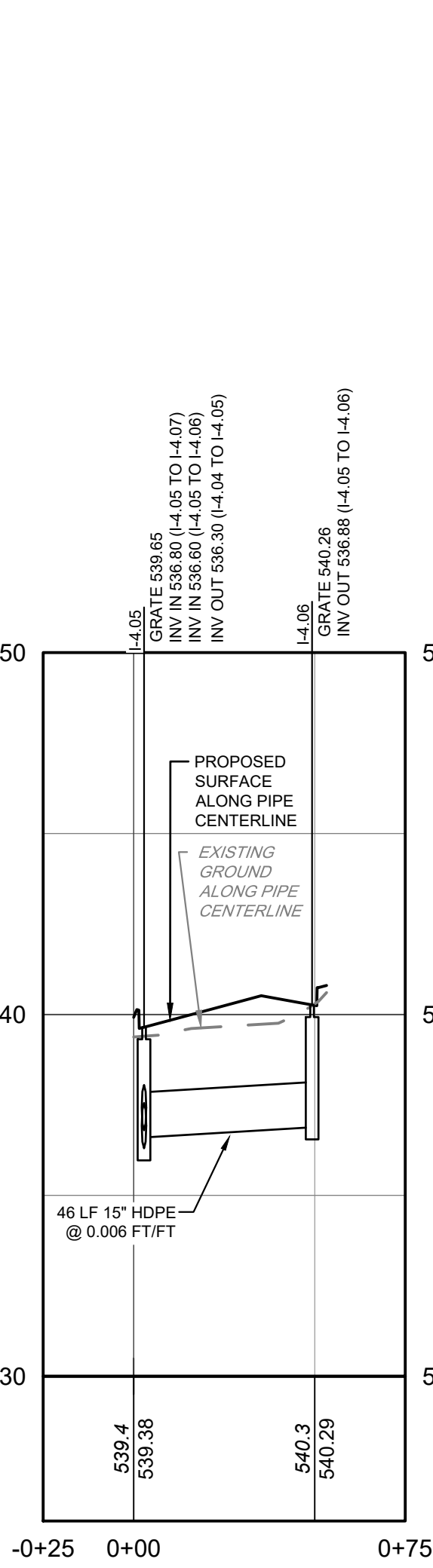
I-6.10 TO SUBSURFACE BASIN 3
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



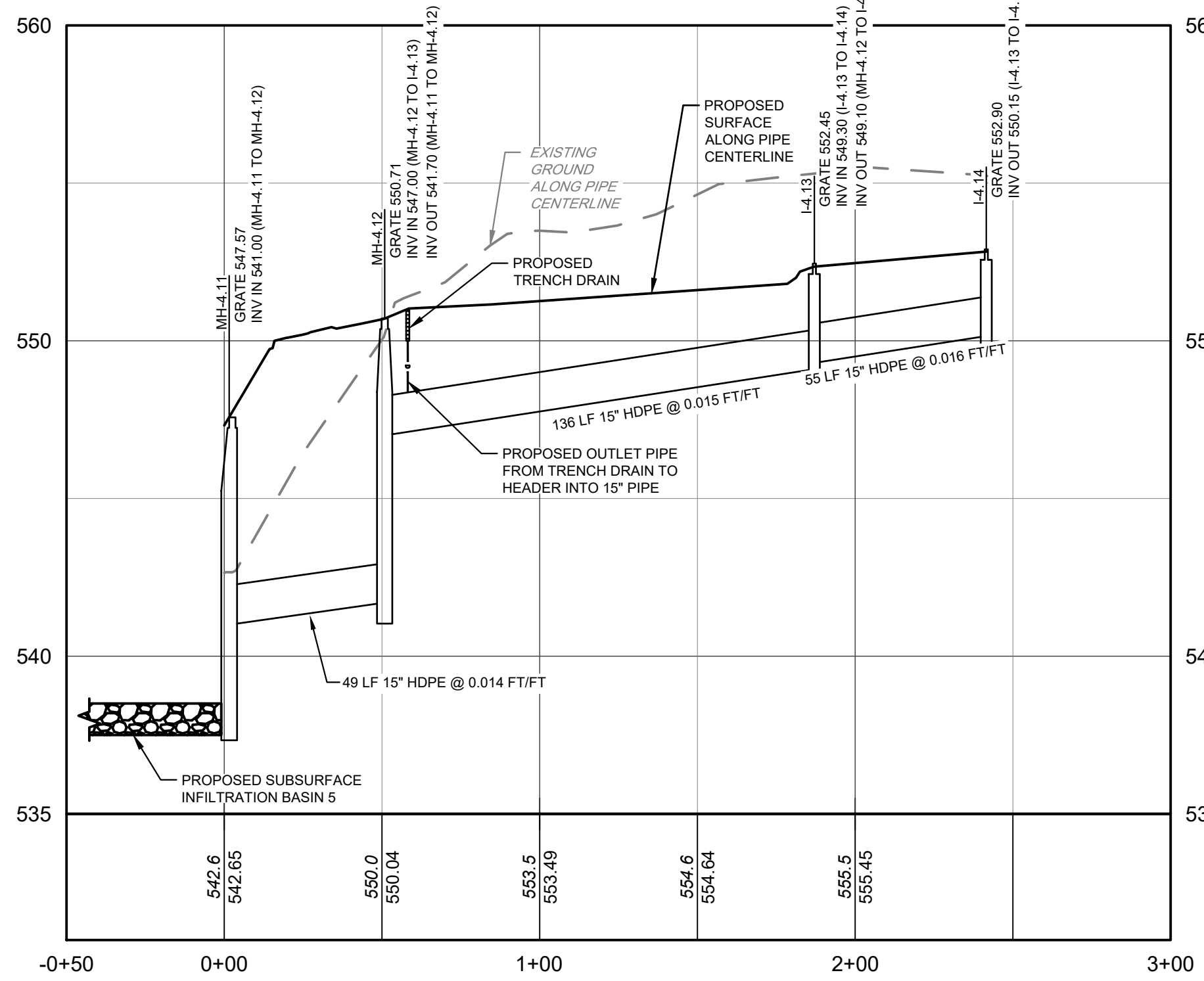
I-4.02 TO I-4.03
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



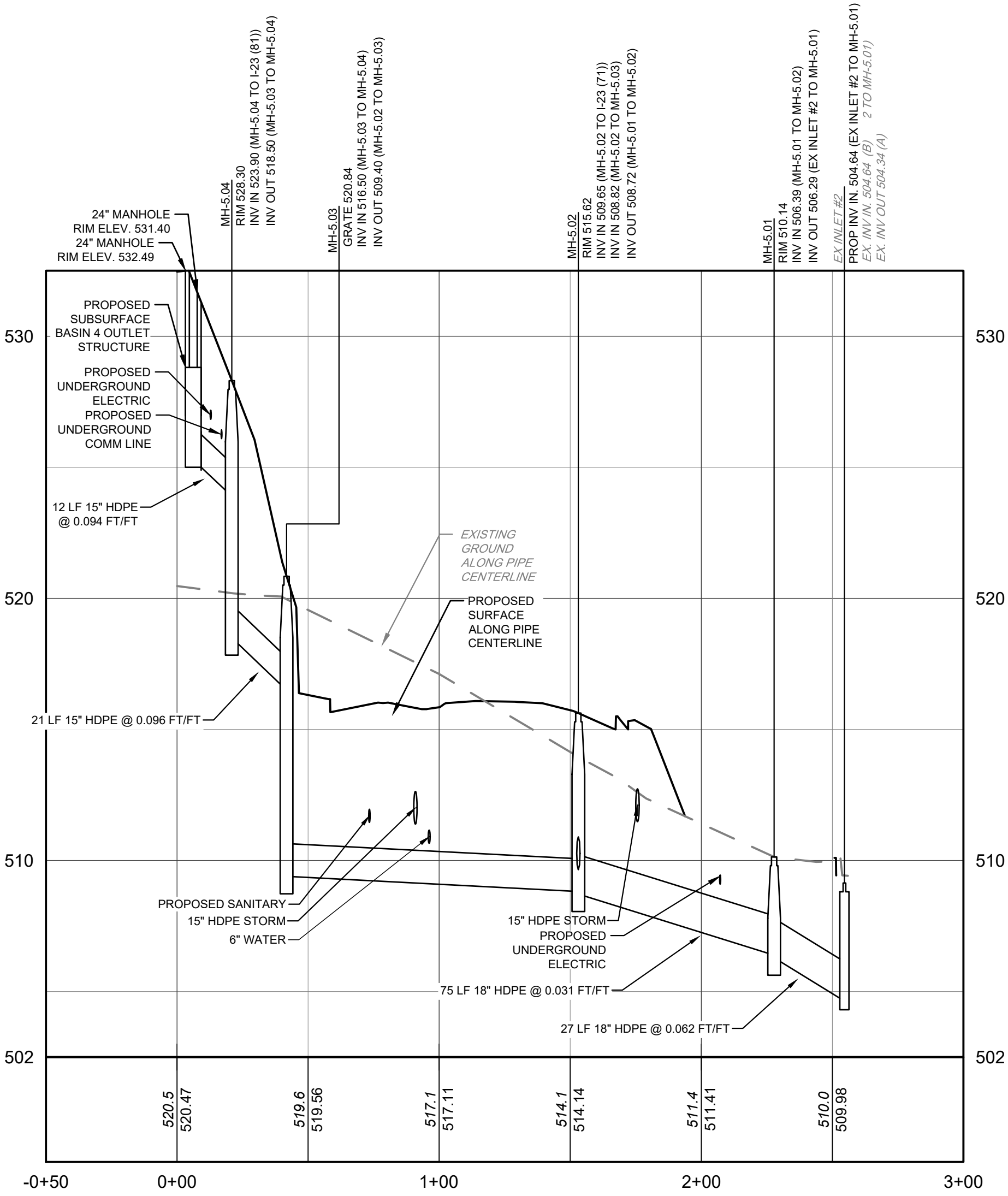
MH-4.04 TO OS-4.05
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



I-4.05 TO I-4.06
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



MH-4.11 TO I-4.14
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



OS TO EX. INLET 2
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

TREDYFFRIN TOWNSHIP
CHESTER COUNTY, PA

PROJECT TEAM

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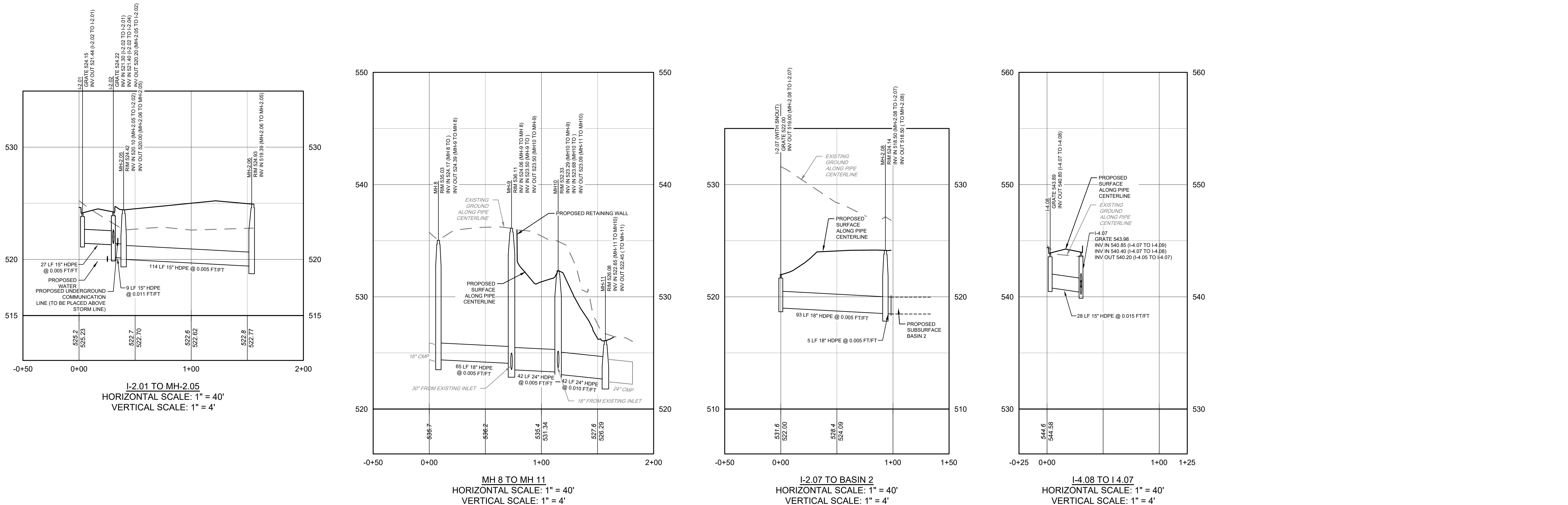
ISC DISCIPLINE
/A

SHEET TITLE _____

DRAWING NUMBER _____

0 40' 80'

SHEET 25 OF 51



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