

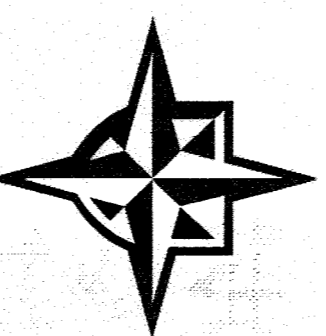
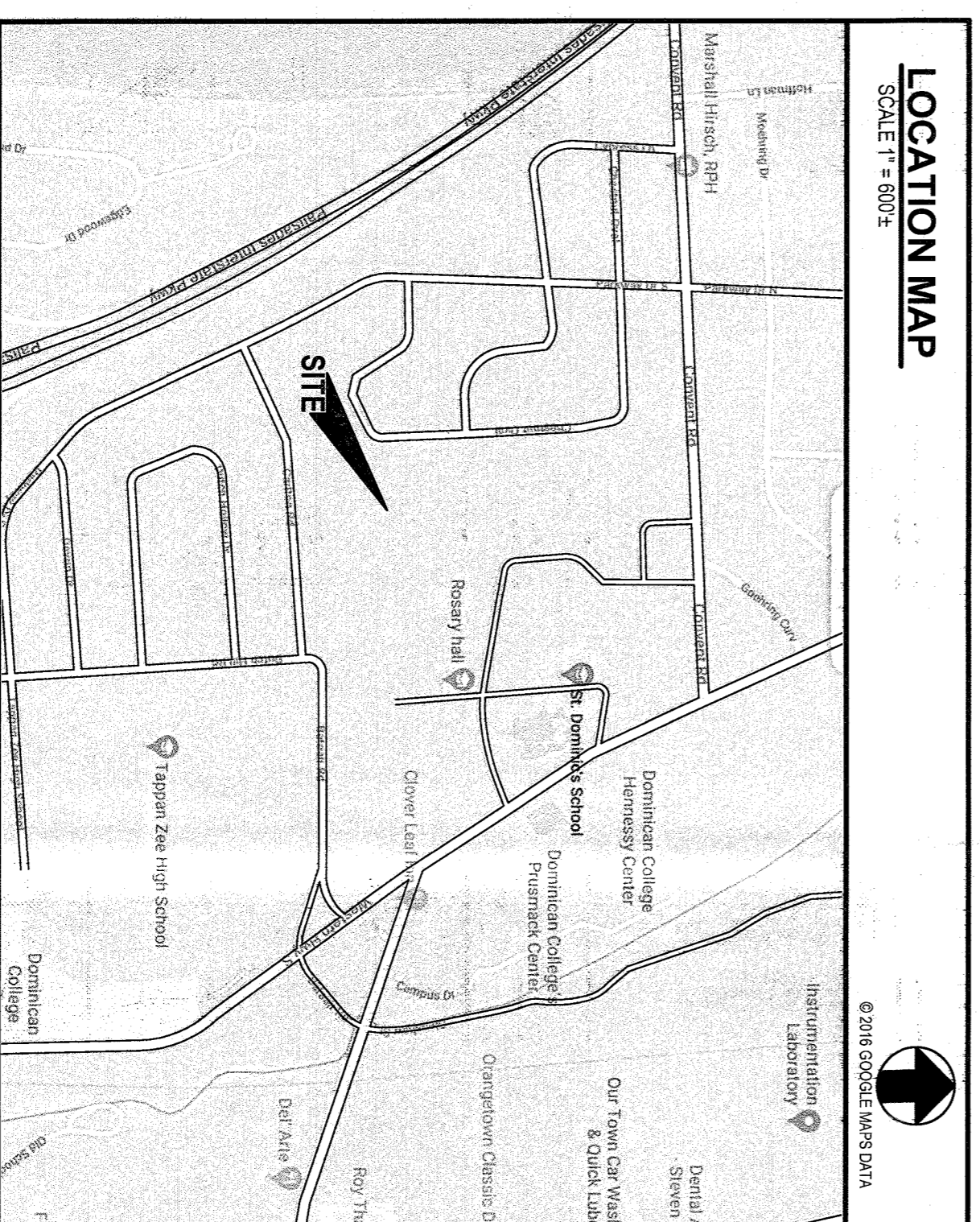
# DOMINICAN COLLEGE

## ATHLETIC COMPLEX SYNTHETIC TURF FIELD

470 WESTERN HIGHWAY, ORANGEBURG, NY 10962

H2M PROJECT NO. LTGR 2001

January 11, 2021



**DOMINICAN COLLEGE**

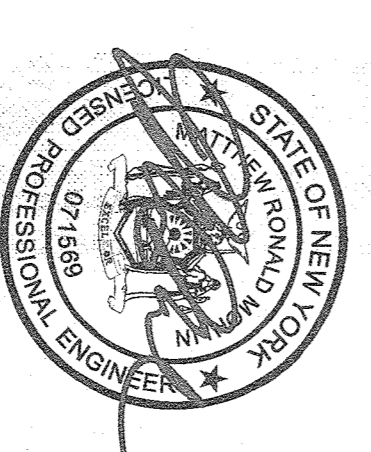
**THE LANDTEK GROUP, INC**  
 235 County Line Rd  
 Arroyville, NY 11701  
 631-598-8230  
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**DRAWING LIST**

- CIVIL DRAWINGS:**
- G10 COVER SHEET
  - C10 EXISTING CONDITIONS AND REMOVALS PLAN
  - C20 DIMENSIONAL SITE PLAN
  - C30 GRADING AND DRAINAGE PLAN
  - C40 LANDSCAPE PLAN
  - C50 EROSION AND SEDIMENT CONTROL PLAN
  - C60 SITE DETAILS
  - C70 BEACHER SITE PLAN, SECTION, AND ELEVATIONS

**H 2** architects  
**M** + engineers

530 Broad Hollow Road, 4th Floor East  
 Melville, NY 11747  
 631.758.8000 www.h2m.com



DESIGNED BY: **MRM**  
 DRAWN BY: **MMT**  
 CHECKED BY: **MMN**  
 PROJECT NO.: **LTGR 2001**  
 DATE: **JAN. 11, 2021**  
 SCALE: **AS SHOWN**

**DOMINICAN COLLEGE**

ATHLETIC COMPLEX  
 SYNTHETIC TURF FIELD  
 470 WESTERN HIGHWAY,  
 ORANGEBURG, NY 10962  
 SEC. 7.06, BLOCK 3, P/O  
 LOTS 1.1 & 1.3

STATUS: **NOT FOR CONSTRUCTION**

DRAWING NO. **GO.0**  
 SHEET NO. **1** OF **8**



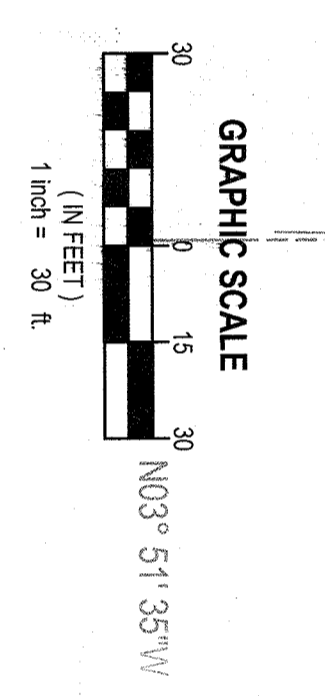
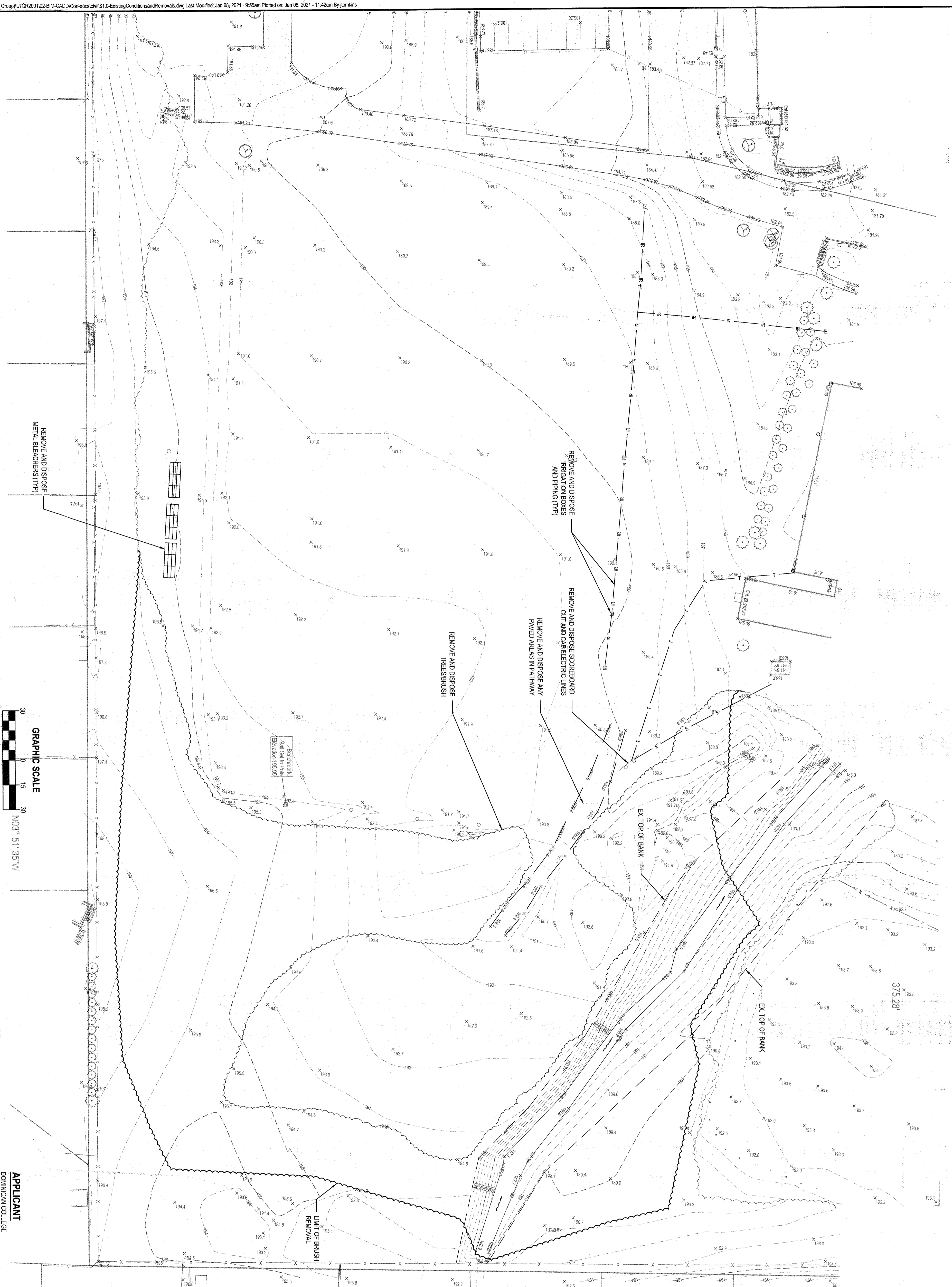
- EXISTING CONDITIONS NOTES:**
1. EXISTING SURVEY PREPARED BY FEA ARCHITECTS - ENGINEERS, DATED 03/02/2010
  2. ELEVATIONS REFER TO N.A.S.D. 1988
  3. THIS SURVEY WAS COMPLETED WITH THE BENEFIT OF A COMPLETE TITLE REPORT.
  4. THE OFFSETS AND DIMENSIONS SHOW FROM STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE AND ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES, WALLS, POOLS, PATIOS, ADDITIONS TO BUILDINGS AND ANY OTHER CONSTRUCTION.
  5. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON ARE BASED ON ADEQUATE FEATURES AND/OR RECORD DRAWINGS AND MARKOUT PROVIDED BY SINGER UTILITY ENGINEERING, P.C. ON MARCH 2020. LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BARRIERS STRUCTURES AND UTILITIES MAY BE ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.

- UTILITY NOTES:**
- SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVEL 5 OF SERVICE (ACQUA) ALL MARKOUT IS QUALITY LEVEL 3 UNLESS OTHERWISE NOTED
- Q.A. = QUALITY LEVEL A (TEST HOLES)  
 DATA TYPICALLY ACQUIRED AT ONE POINT ON AN UNDERGROUND UTILITY FEATURE EXPOSED BY AIR VACUUM EXCAVATION OR OTHER MEANS. THE HORIZONTAL AND VERTICAL LOCATION OF THIS REFERENCE POINT IS ACQUIRED AND REPORTED TO ACCEPTABLE SURVEY TOLERANCES. THE ACQUIRED DATA FULFILLS SECTION 5.4.5 ON PAGE 8 OF ASCE STANDARD 98-02.
- Q.L.B. = QUALITY LEVEL B (UTILITY DESIGNATION)  
 DESIGN OF AN UNDERGROUND UTILITY LINE ESTABLISHED BY SENSING THE LOCATION WITH ELECTRONIC INSTRUMENTATION, LINEWORK AND UTILITY SURFACE FEATURES ARE ACQUIRED BY SENSING POINTS ALONG ALIGNMENT TO ACCEPTABLE SURVEY TOLERANCES.
- E.O.I. = END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY. COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS ARE OUT OR AT END OF UTILITY.

- REMOVALS LEGEND**
- | DESCRIPTION                                    | SYMBOL |
|--|--------|
| REMOVE AND DISPOSE OF EXISTING ELECTRIC LINE   | — E —  |
| REMOVE AND DISPOSE OF EXISTING TELEPHONE LINE  | — T —  |
| REMOVE AND DISPOSE OF EXISTING IRRIGATION LINE | — I —  |

- EXISTING CONDITIONS LEGEND**
- | DESCRIPTION            | SYMBOL   |
|------------------------|----------|
| BENCHMARK              | BM       |
| CATCH BASIN            | CB       |
| HYDRANT                | H        |
| TEST ROBERTS HOLE      | TRH      |
| ELECTRIC MANHOLE       | EMH      |
| ELECTRIC RISER         | ER       |
| PULL BOX               | PB       |
| UTILITY POLE/PLY POLE  | UP       |
| IRRIGATION CONTROL BOX | ICB      |
| SPRINKLER HEAD         | SH       |
| SCOREBOARD             | SB       |
| EVERGREEN TREE         | ET       |
| DECIDUOUS TREE         | DT       |
| PROP CURB              | PC       |
| STORM DRAIN            | SD       |
| IRRIGATION LINE        | IR       |
| UNDERGROUND ELECTRIC   | UE       |
| UNDERGROUND TELEPHONE  | UT       |
| CONTOUR                | 100'     |
| SPOT ELEVATION         | TC 82.79 |
| TOP/NOT CURB GRADE     | TC 82.55 |
| ASPHALT PAVEMENT       | AP       |

- SITE REMOVALS NOTES:**
1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
  2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
  3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL CURB SURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
  4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN ON ASSESSMENTS SHOWN ON THE PLANS.
  5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
  6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
  7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
  8. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
  9. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ANY GROUND DISTURBANCE.
  10. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
  11. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
  12. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
  13. BACKFILL ALL Voids RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES BACKFILL TO BE SOIL FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.



**APPLICANT**  
 DOMINICAN COLLEGE  
 470 WESTERN HIGHWAY  
 ORANGEBURG, NY 10962  
 (845) 590-0144

	<p>538 Broad Hollow Road, 4th Floor East                  Newville, NY 11747                  631.768.8000 • www.h2m.com</p>	<p><b>THE LANDTEK GROUP, INC</b>                  235 County Line Rd                  Amityville, NY 11701                  631-681-2381                  631-688-8280                  www.landtekgroup.com</p>		<p><b>DOMINICAN COLLEGE</b>                  ATHLETIC COMPLEX                  SYNTHETIC TURF FIELD</p>	<p><b>DOMINICAN COLLEGE</b>                  470 WESTERN HIGHWAY                  ORANGEBURG, NEW YORK                  10962                  SEC. 74.06, BLOCK 3, P/O                  LOTS 1.1 &amp; 1.3</p>
<p>STATUS: <b>REGULATORY REVIEW</b></p>	<p><b>EXISTING SITE CONDITIONS AND REMOVALS PLAN</b></p>				
<p>MARK: 1</p>	<p>DATE: 07/11/21</p>	<p>DESCRIPTION: ADDRESS COMMENTS</p>			
<p>DESIGNED BY: MRJ</p>	<p>DRAWN BY: JMT</p>	<p>PROJECT NO.: LCTR 2001</p>	<p>DATE: OCTOBER 8, 2020</p>	<p>SCALE: AS SHOWN</p>	<p>SHEET NO.: 2 OF 8</p>



MULTI-PURPOSE FIELD STRIPING TABLE					
SPORT/EVENT	DIMENSIONS	TYPE OF STRIPE	COLOR	PAVEMENT COLOR NO.	
SOCCER	210' X 360'	INLAID	CANARY YELLOW	136C	
BOYS LACROSSE	180' X 330'	INLAID	REHEX BLUE	183C	
GIRLS LACROSSE	9' RADIUS	PAINTED	REHEX BLUE	183C (OR EQUAL)	
	210' X 360'	INLAID	RED	185C	

TOTAL LAND DISTURBANCE = 4.81 ACRES

SITE DATA	
ZONE: R40	USE: SCHOOL ATHLETIC FIELD
SCHOOL DISTRICT: SOUTH ORANGETOWN CSD	FIELD DISTRICT: ORANGETOWN
WATER DISTRICT: UNITED WATER NEW YORK	SEWER DISTRICT: ORANGETOWN SEWER DISTRICT

**BULK REQUIREMENTS**

ITEM	REQUIRED	NEW
MINIMUM FLOOR AREA RATIO	0.15	0.01
MINIMUM LOT AREA	80,000 SF	544,500 SF
MINIMUM LOT WIDTH	300 FT	516 FT
MINIMUM STREET FRONTAGE	150 FT	235 FT
MINIMUM SIDE YARD DEPTH (EACH)	30 FT	50 FT
MINIMUM REAR YARD DEPTH (OVERSHADE)	20 FT	74.8 FT
MINIMUM BUILDING HEIGHT	3 INCHES	6.8 FT
		0 INCHES

**LEGEND**

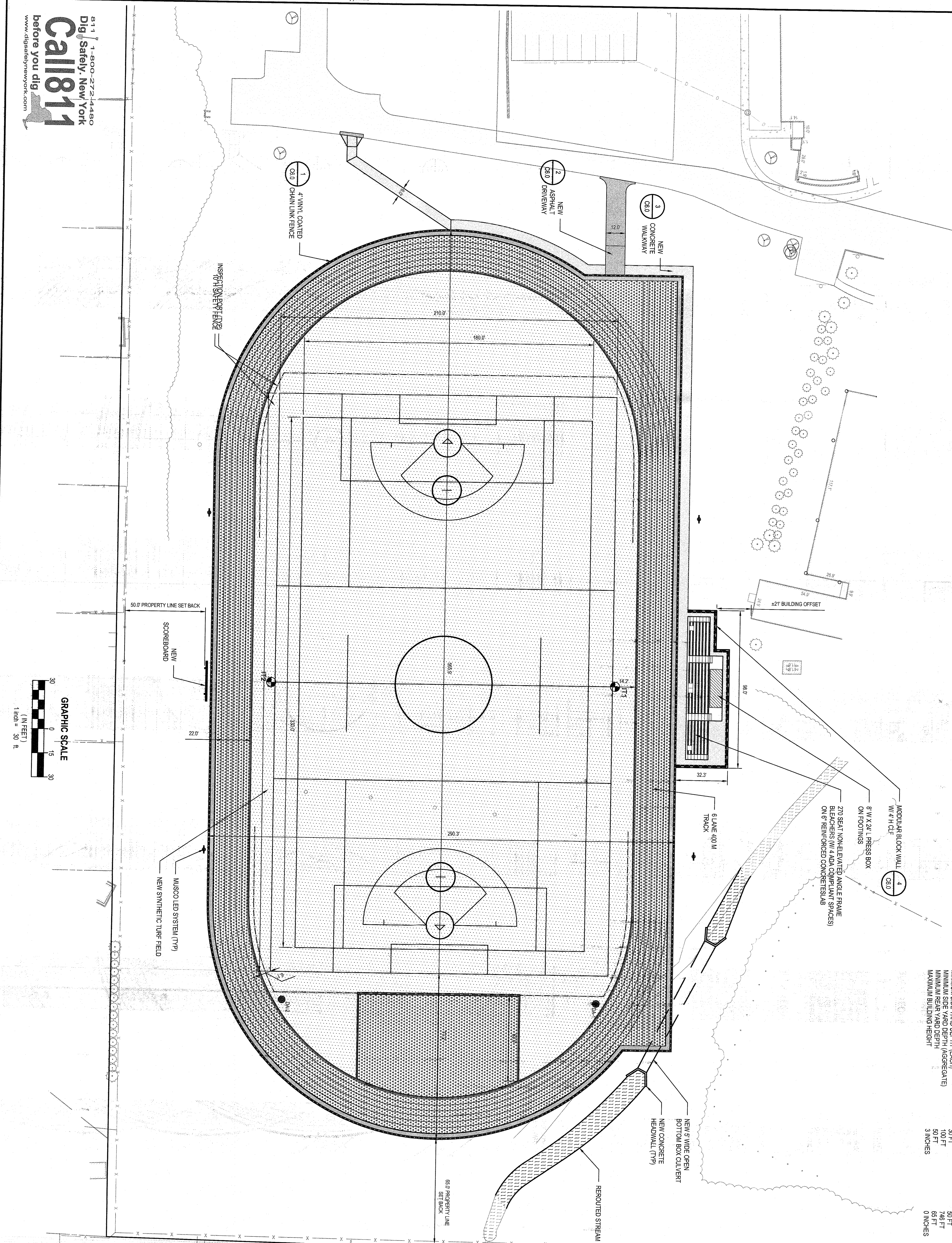
DESCRIPTION	SYMBOL
RETAINING WALL	[Symbol]
ASPHALT PAVEMENT	[Symbol]
CONCRETE PAVEMENT	[Symbol]
CONCRETE SIDEWALK	[Symbol]
TURF FIELD	[Symbol]
RUNNING TRACK	[Symbol]
RELOCATED STREAMBED	[Symbol]
UTILITY MANHOLE	[Symbol]
HANDICAP RAMP	[Symbol]
CHAIN LINK FENCE	[Symbol]

**SITE PLAN NOTES:**

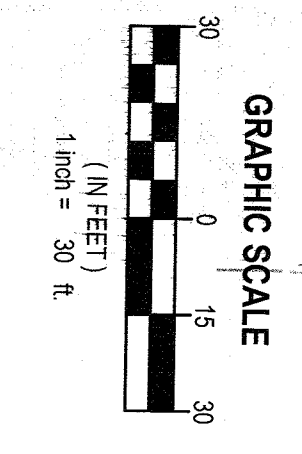
- INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
- NOTIFY THE OWNER AND H2M TELEPHONE (81-755-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
- COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
- PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAYS/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
- DURING ALL NONWORKING HOURS STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE OWNER AT THE PROJECT SITE.
- ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
- COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERUPTION TO THE OWNER'S OPERATIONS.
- RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED.
- SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.

**TOWN OF ORANGETOWN NOTES:**

- LOT DIMENSIONS SHALL CONSTITUTE EXISTENT'S RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
- ALL UTILITIES INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
- SIDEWALKS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS.
- THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN RECORDED IN THE MANNER SPECIFIED BY SECTION 28-B(4) OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.



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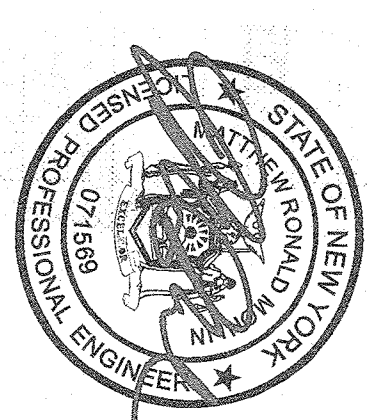
**APPLICANT**  
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architects + engineers

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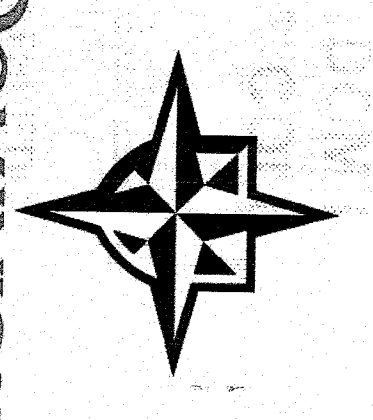
MARK	DATE	DESCRIPTION
1	01/17/21	ADDRESS COMMENTS



DESIGNED BY: **MRM**  
DRAWN BY: **JMT**  
PROJECT NO.: **LGTR 2001**  
DATE: **OCTOBER 8, 2020**  
SCALE: **AS SHOWN**

**DOMINICAN COLLEGE**

**ATHLETIC COMPLEX SYNTHETIC TURF FIELD**



**DOMINICAN COLLEGE**

470 WESTERN HIGHWAY  
ORANGETOWN, NEW YORK  
10962  
SEC. 74.06, BLOCK 3, P/O  
LOTS 1.1 & 1.3

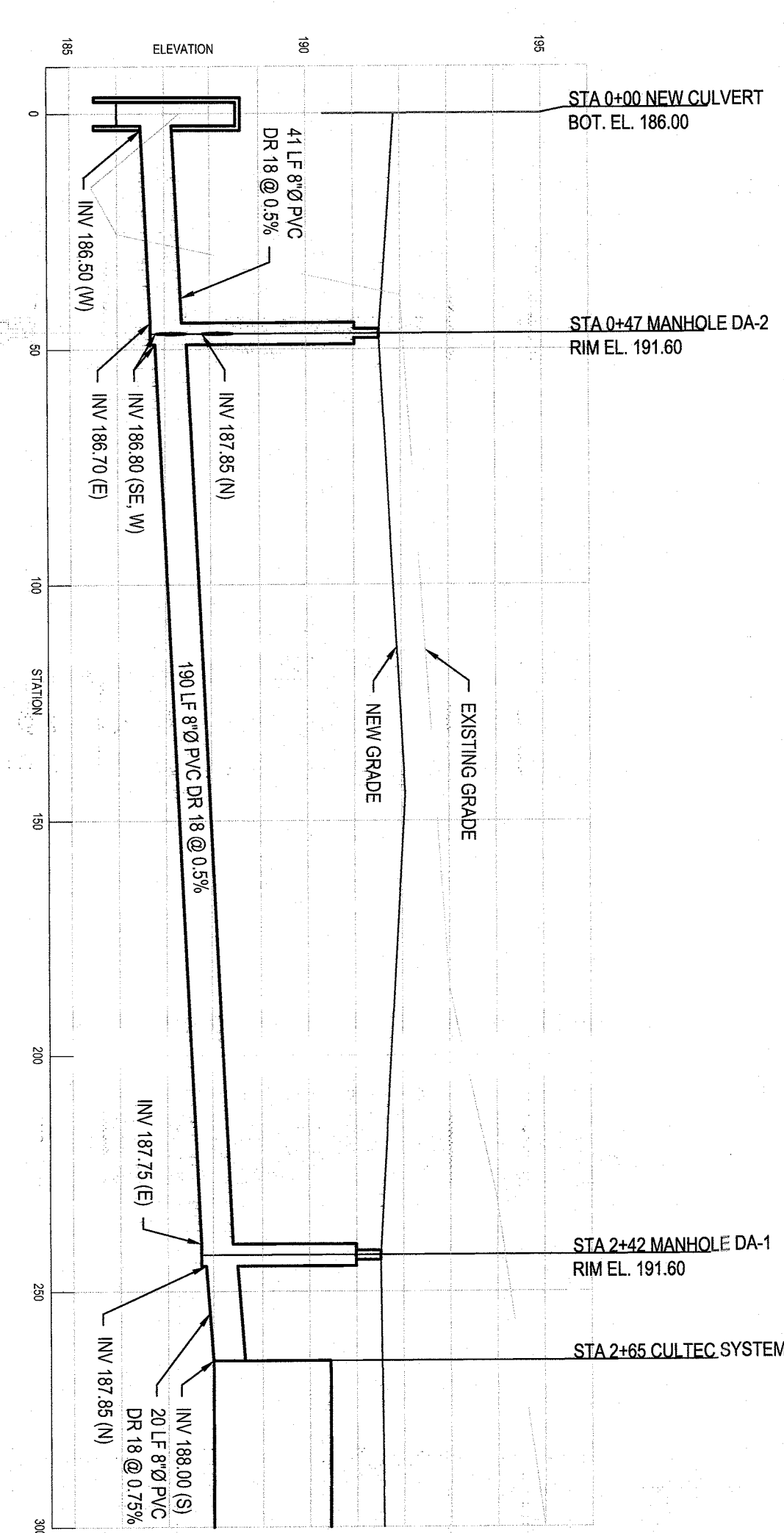
**REGULATORY REVIEW**

**DIMENSIONAL SITE PLAN**

**C2.0**

3 of 8

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**DRAINAGE STRUCTURE SCHEDULE**

STRUCTURE NUMBER	STRUCTURE TYPE	RIM/TC ELEVATION	INVERT ELEVATIONS
DA-1	NEW 4' DIA. MANHOLE	RIM 191.60	N 187.85 (8') E 187.75 (8')
DA-2	NEW 4' DIA. MANHOLE	RIM 191.60	SE, W 186.80 (8') E 186.70 (8')

**CULVERT DATA TABLE**

DRAINAGE AREA	35.6 acres
SPRIN	5'
SLOPE	1.69%
MAXIMUM WATERSHED RUNOFF LENGTH	128.6 ft
DISCHARGE CAPACITY	163.7 cfs
ORDINARY HIGH WATER LINE	EL. 188.50'

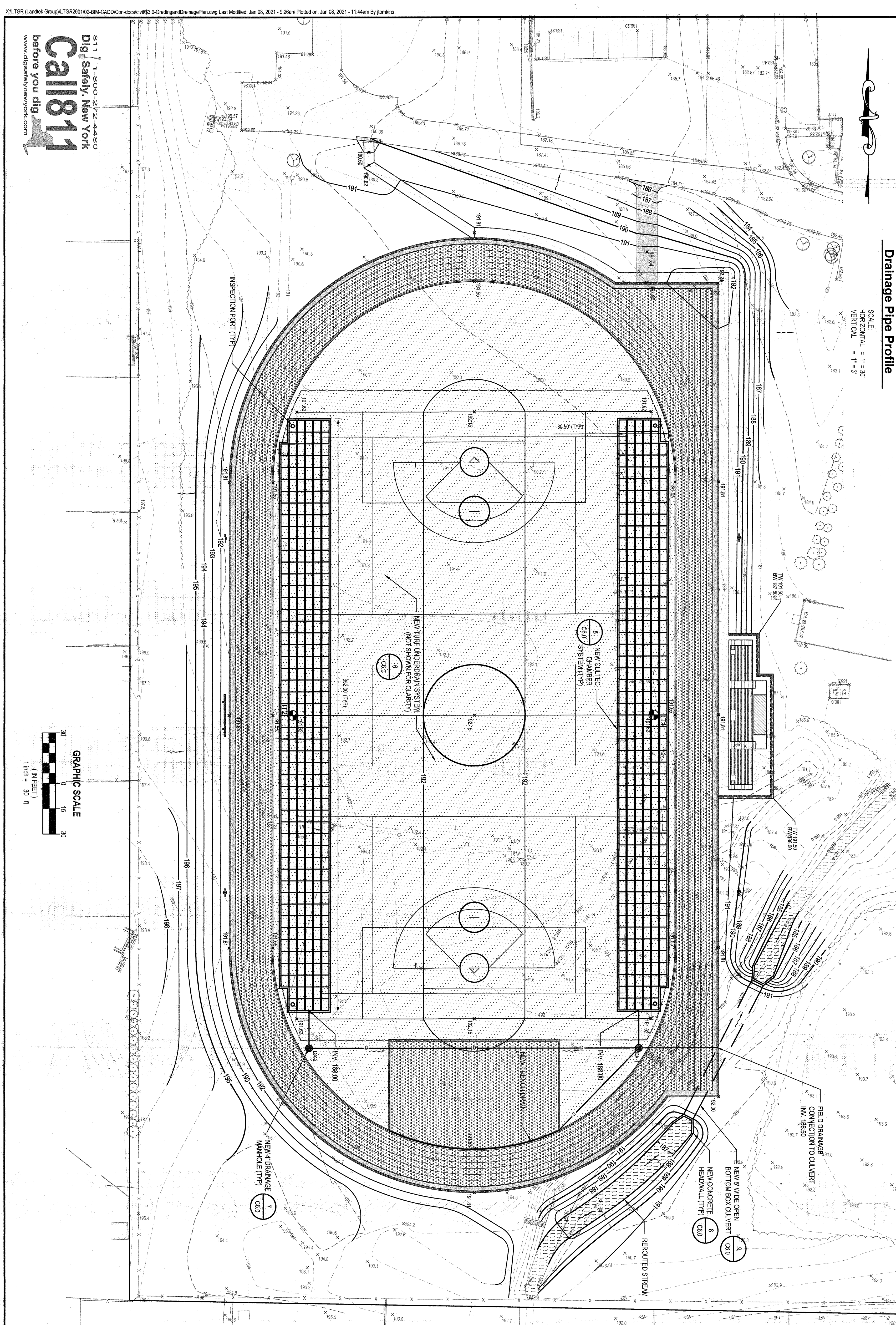
**STORM DRAINAGE CALCULATIONS:**

Table 01 - Stormwater Modeling Summary

Watershed ID	Runoff Volume (cf)	Peak Runoff/Storm Overflow Rate (cfs)
1	7,202	13.53
2	7,539	14.17

Table 02 - WQV Summary

Watershed ID	Watershed Area (ac)	Impervious Area (ac)	Percent Impervious (%)	WQV Required (ft)	WQV Provided (ft)	Chamber Volume (ft)
1	35.067	70.983	128.813	0.52	1.48	3.13
2	1,890	5,343	11,692	0.00	0.54	3.16



**LEGEND**

SYMBOL  
+ 121.50  
TW 140.00  
ELEVATION  
BW 138.50  
MAJOR CONTOUR  
MINOR CONTOUR  
BORING / TEST HOLE LOCATION  
RETAINING WALL  
UTILITY MANHOLE  
DRAINAGE LINE

**GRADING AND DRAINAGE NOTES:**

- FOR NEW CONSTRUCTION THAT MEETS EXISTING CONDITIONS, RAUTING SURFACES SHALL BE FLUSH AND ALIGNED.
- ADJUST ALL EXISTING CATCHES AND VALVE COVERS TO MEET PROPOSED GRADE.
- CONSTRUCTION BERMS AND EXCESS SOIL SHALL BE REMOVED AND LEAKLIT/DIRT/SPILT SHIT.
- UNSATURABLE SOILS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.

**PIPE MATERIAL SPECIFICATIONS:**

- MANHOLE TO CULVERT CONNECTION: 6"Ø SMOOTH INTERIOR HDPE
- FIELD COLLECTION SYSTEM: 6"Ø SMOOTH INTERIOR HDPE
- FIELD UNDERDRAIN: 1" x 12' FLAT HOPE

**IT-1**  
(EL. 190.07) GROUND SURFACE

NO	SB	CLASSIFICATION
1	1	DK BRN ORG LOAM (OL)
2	2	DK BRN FINE SANDY SILT (OL)
3	3	OM, TR GRAVEL, ROOTS (OL)
4	4	DK BRN LEAN RED BRN SILTY SAND, TR GRVL, ROOTS (SM/FILL)
5	5	RED RED BRN SILTY SAND, TR GRAVEL, ROCK FRAG. (SM)
6	6	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG., CLAY (SM)
7	7	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
8	8	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG., CLAY (SM)
9	9	RED RED BRN SILTY SAND, TR TO LITTLE GRAVEL, ROCK FRAG. (SO)
10	10	RED RED BRN SANDY CLAYE SILT, TR ROCK FRAG. (ML)
11	11	RED RED BRN SANDY CLAYE SILT, TR ROCK FRAG. (ML)
12	12	RED RED BRN SILTY SAND, TR TO LITTLE GRAVEL, ROCK FRAG. (SM)
13	13	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
14	14	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
15	15	RED RED BRN SANDY CLAYE SILT, TR ROCK FRAG. (ML)
16	16	RED RED BRN SILTY SAND, TR TO LITTLE GRAVEL, ROCK FRAG. (SM)
17	17	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
18	18	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
19	19	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
20	20	REFUSAL @ 22'-0"

**IT-2**  
(EL. 192.27) GROUND SURFACE

NO	SB	CLASSIFICATION
1	1	WORK DK BRN ORG LOAM (OL)
2	2	RED BRN SANDY CLAYE SILT, TR (ML/FILL)
3	3	RED BRN W/OK GRAY SILTY SAND, TR GRVL, ROCK FRAG. (SM/FILL)
4	4	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
5	5	RED RED BRN SILTY SAND, TR GRVL, ROCK FRAG. (SM)
6	6	RED RED BRN SANDY SILTY SAND, TR ROCK FRAG. (ML)
7	7	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
8	8	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
9	9	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
10	10	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
11	11	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
12	12	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
13	13	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
14	14	RED RED BRN SILTY SAND, TR LITTLE ROCK FRAG. (SM)
15	15	REFUSAL @ 19'-0"

**APPLICANT**  
DOMINICAN COLLEGE  
470 WESTERN HIGHWAY  
ORANGETURF, NY 10962  
(845) 846-7514

**DOMINICAN COLLEGE**  
ATHLETIC COMPLEX  
SYNTHETIC TURF FIELD

REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK  
071680  
LANDTEK GROUP, INC.

538 Broad Hollow Road, 4th Floor East  
Melville, NY 11747  
631.783.9300 - www.landtek.com

**MARK** 1  
**DATE** 01/11/21  
**DESCRIPTION** ADDRESS COMMENTS

**STATUS**  
REGULATORY REVIEW

**CONTRACT**  
ALL CONTRACTS

**PROJECT**  
REGULATORY REVIEW

**PROJECT NO.** C3.0  
**SHEET NO.** 4 OF 8

**GRADING AND DRAINAGE PLAN**

KEY	BOTANICAL NAME	COMMON NAME	CAL.	MAT. HT.	REMARKS
TREES	Quercus alba Picea canadensis	White Oak Norway Spruce	2' - 3"	60' - 100'	
SEEDING MIX	Poa pratensis Festuca rubra variety Lolium perenne Annual Ryegrass	Kentucky Bluegrass (Min of 3 cultivars) Creeping Red Fescue Perennial Ryegrass	SEED MIX 15% 35% 15%	SEEDING RATE Seed at 5 lbs per 1,000 SF	



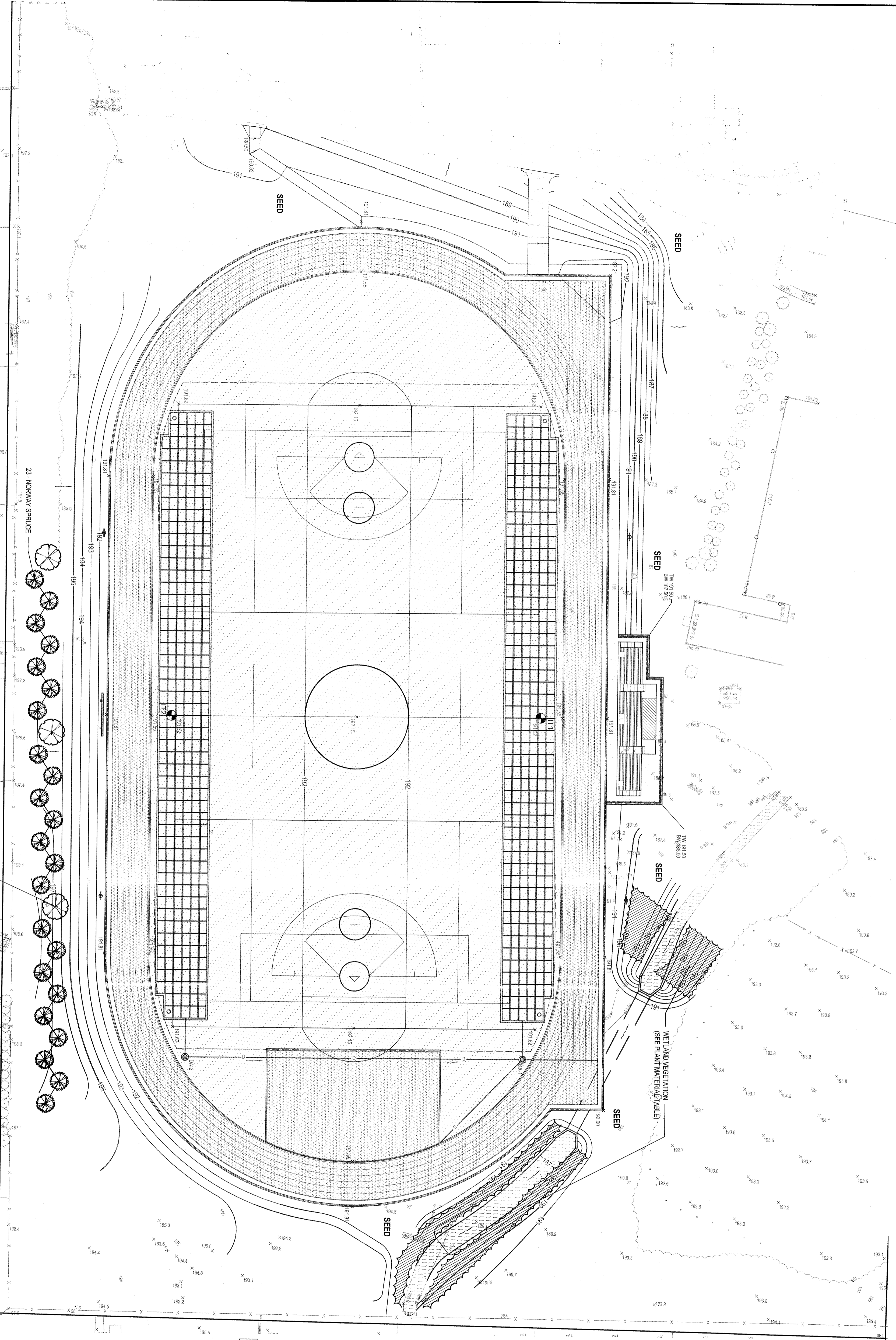
KEY	BOTANICAL NAME	COMMON NAME	SPACE	ROOT	REMARKS
SHRUBS	Cornus sericea Sambucus canadensis Viburnum dentatum Mullein pennsylvanica	Red-osier Dogwood Common Elderberry Arrowwood Viburnum Northern Bayberry	6' 6' 6' 6'	R8B R8B R8B R8B	All shrubs to be full and dense with the minimum number of canes for size requested in accordance with the best edition of the American Standard for Nursery Stock. Spacing of shrubs shall be as shown on the plan or as noted. Plants listed from wet to dry, and should be placed from bottom of slope to top of slope.
SEEDING	Eriophorum vaginatum Eriophorum vaginatum	Wetland Mix	PROPORTION BY WEIGHT 100%	SEEDING RATE Seed at 20 lbs per acre	

LEGEND	DESCRIPTION	SYMBOL
WETLAND PLANTINGS		

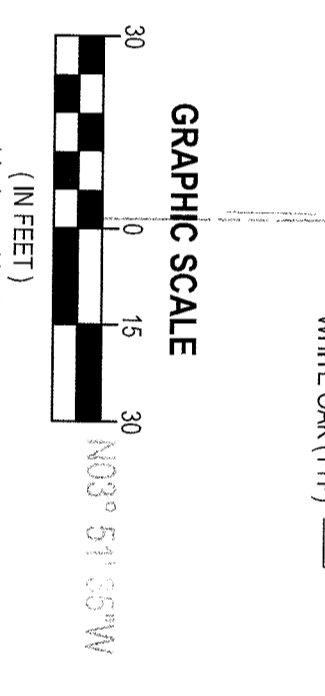
**PLANTING NOTES**

- ALL SUPPLIED AND INSTALLED PLANT MATERIAL SHALL BE NURSERY GROWN STOCK IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK (ANS Z60.1)". PLANT MATERIAL SHALL BE OF THE APPROVED SPECIES AND GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE SUBJECT SITE. THEY SHALL BE OF SYMMETRICAL GROWTH, FREE OF INSECT PESTS, AND DISEASES. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- CONFER THE LOCATION OF EXISTING SUBSURFACE UTILITIES WITH THE OWNER AND CONDUIT WITH THE ARCHITECT. THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND STRUCTURES SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT. NOTIFY THE ARCHITECT OF ANY EXCAVATION. NOTIFY THE ARCHITECT IF ANY CONFLICTS EXIST.
- NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY AND PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS IF SUB-GRADE SOIL CONDITIONS ARE DETERIORATED TO PLANT GROWTH OR WILL INHIBIT DRAINAGE.
- IF ANY DISCREPANCY EXISTS BETWEEN THE PLANT COUNT SHOWN IN THE PLANT MATERIAL LIST AND THE PLANTING PLAN, THE PLAN SHALL TAKE PRECEDENCE.
- UNLESS OTHERWISE APPROVED IN WRITING, INSTALL VEGETATION DURING THE FOLLOWING PERIODS:
  - DECIDUOUS WOODY PLANTS: SEPTEMBER 15 TO MAY 15
  - WHENEVER TEMPERATURE IS ABOVE 40 DEGREES F.
  - EVERGREENS: AUGUST 15 TO SEPTEMBER 15 OR DURING APRIL AND MAY BEFORE THE START OF NEW GROWTH.
  - SEEDING: APRIL 1 TO MAY 15 AND SEPTEMBER 1 TO OCTOBER 15.
- PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE EXISTING GRADE IN THE NURSERY.
- THE TRUNK DIAMETER OF DECIDUOUS TREES SHALL BE MEASURED IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK (ANS Z60.1)" FOR THE CALIPER SIZE AS SHOWN IN THE PLANT MATERIAL LIST.
- ALL DECIDUOUS TREES SHALL BE BRANCHED NOT LOWER THAN SEVEN (7) FEET AND PRUNED TO THE BRANCHES FOR THE PARTICULAR SIZE AND SPECIES SPECIFIED IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK".
- INSTALL A 2"3" LAYER OF SHREDED BARK MULCH IN ALL TREE PLANTING AREAS AND SHRUB BEDS. DO NOT PLACE MULCH DIRECTLY AGAINST TRUNKS OF TREES. FORM AN EARTH SAUCER AROUND EACH PLANT OR SHRUB BED SO AS TO HOLD WATER AND MULCH. PROVIDE SUFFICIENT IRRIGATION FOR ALL PLANT MATERIALS TO MAINTAIN HEALTHY AND VIGOROUS CONDITION UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER PLANTING FOLLOWING ACCEPTANCE BY THE OWNER. REPLACEMENT OF ANY PLANT MATERIALS THAT DO NOT SURVIVE SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT. BEING THE SAME SPECIES AND SIZE IMMEDIATELY DURING THE CURRENT GROWING SEASON OR AT THE BEGINNING OF THE NEXT GROWING SEASON.
- UPON COMPLETION OF PLANTING OPERATION CULTIVATE AND NEATLY RAKE ALL PLANTING AREAS.
- RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED. PROVIDE SUFFICIENT MULCH AND IRRIGATION TO ESTABLISH AND MAINTAIN A HEALTHY STAND OF GRASS UNTIL PROJECT IS ACCEPTED BY THE OWNER.

**TOTAL LAND DISTURBANCE = 4.81 ACRES**



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SYNTHETIC TURF FIELD

**LANDTEK**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NEW YORK  
071589

PROJECT NO. LOTR 2001  
DATE: OCTOBER 8, 2020

DESIGNED BY: JMT  
DRAWN BY: JMT  
SCALE: AS SHOWN

**REGULATORY REVIEW**

**ALL CONTRACTS**

**LANDSCAPE PLAN**

MARK: DATE: DESCRIPTION

1: 07/21: ADDRESS COMMENTS

DRWG. NO. **C4.0**

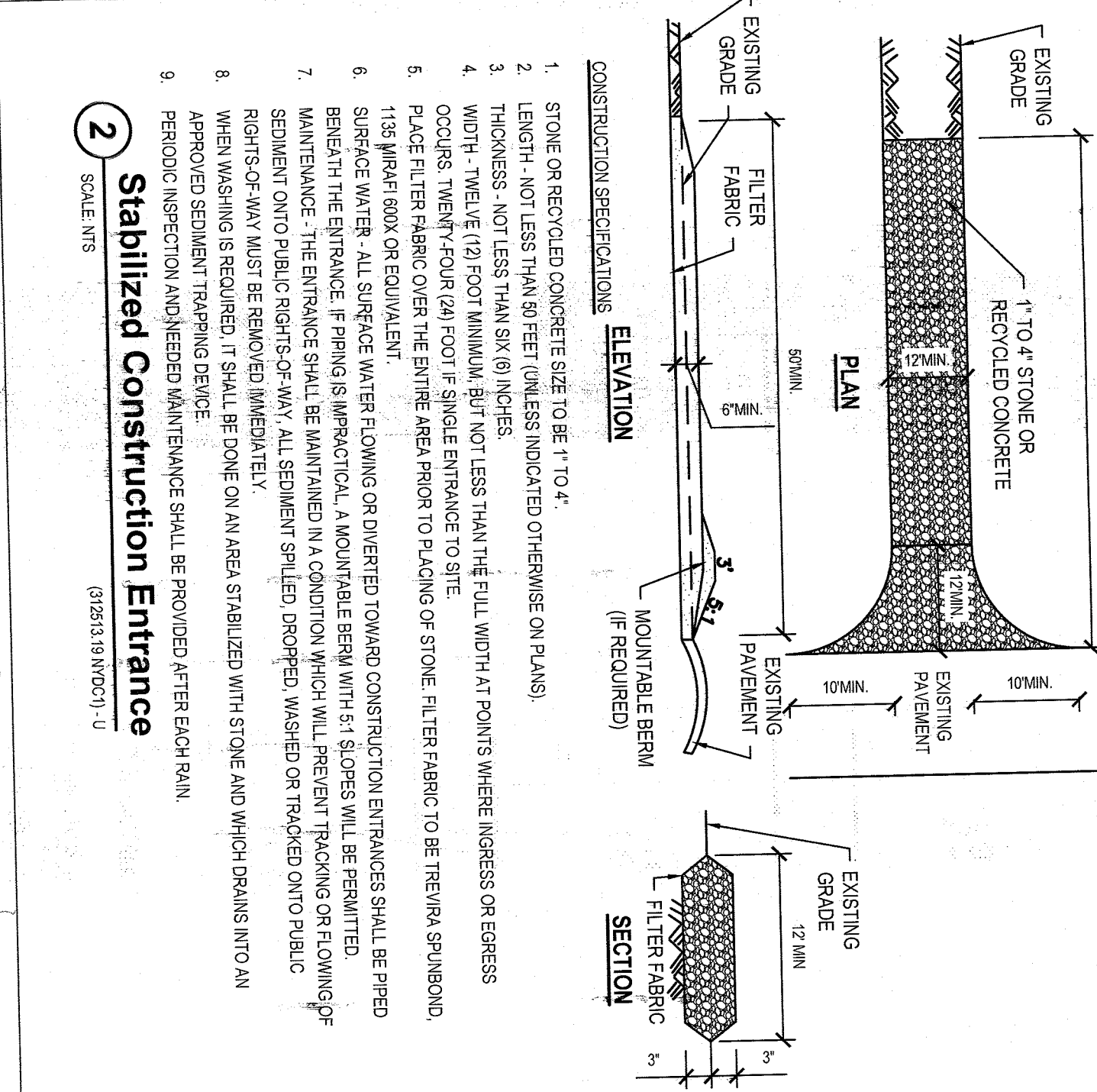
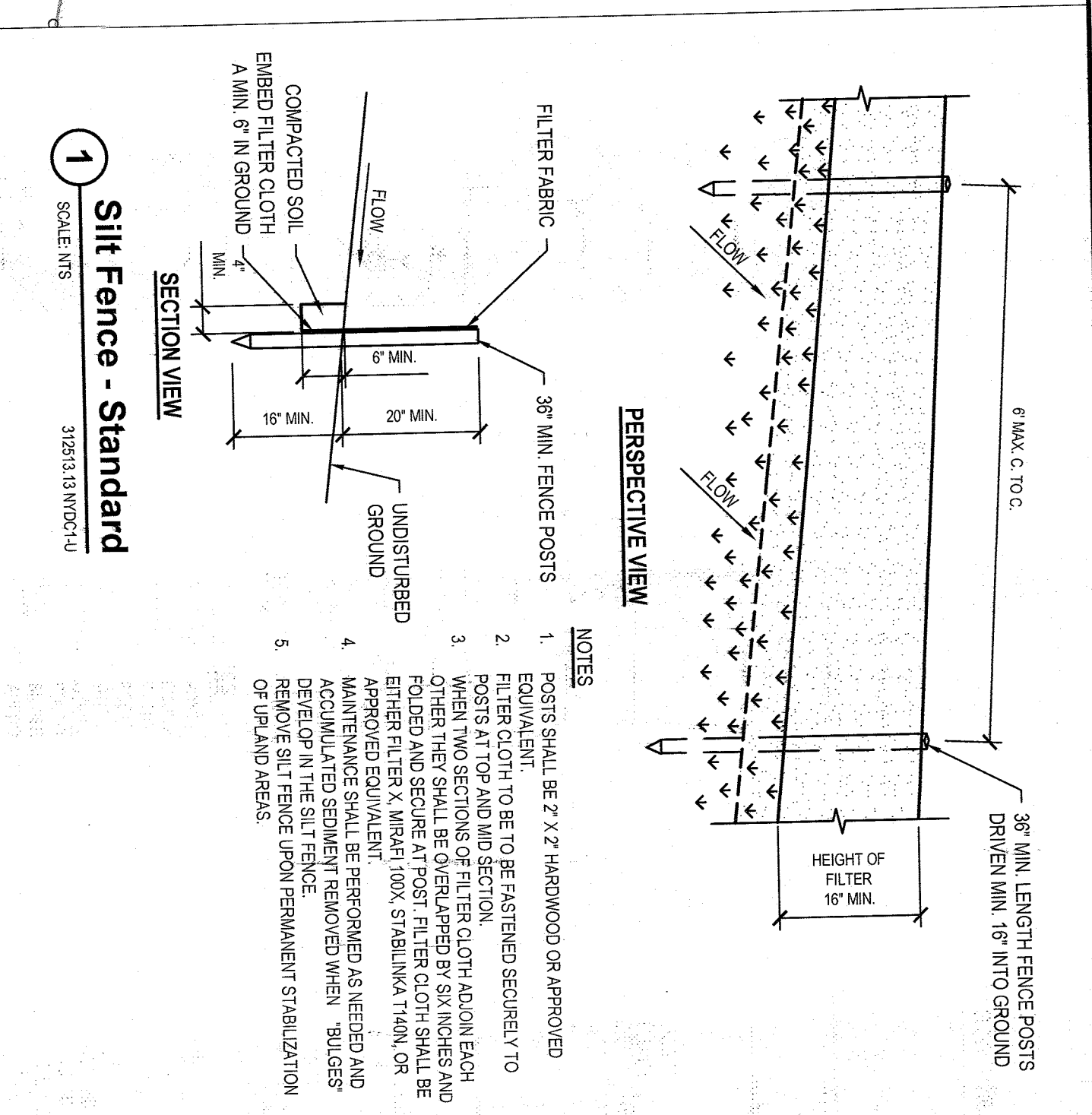
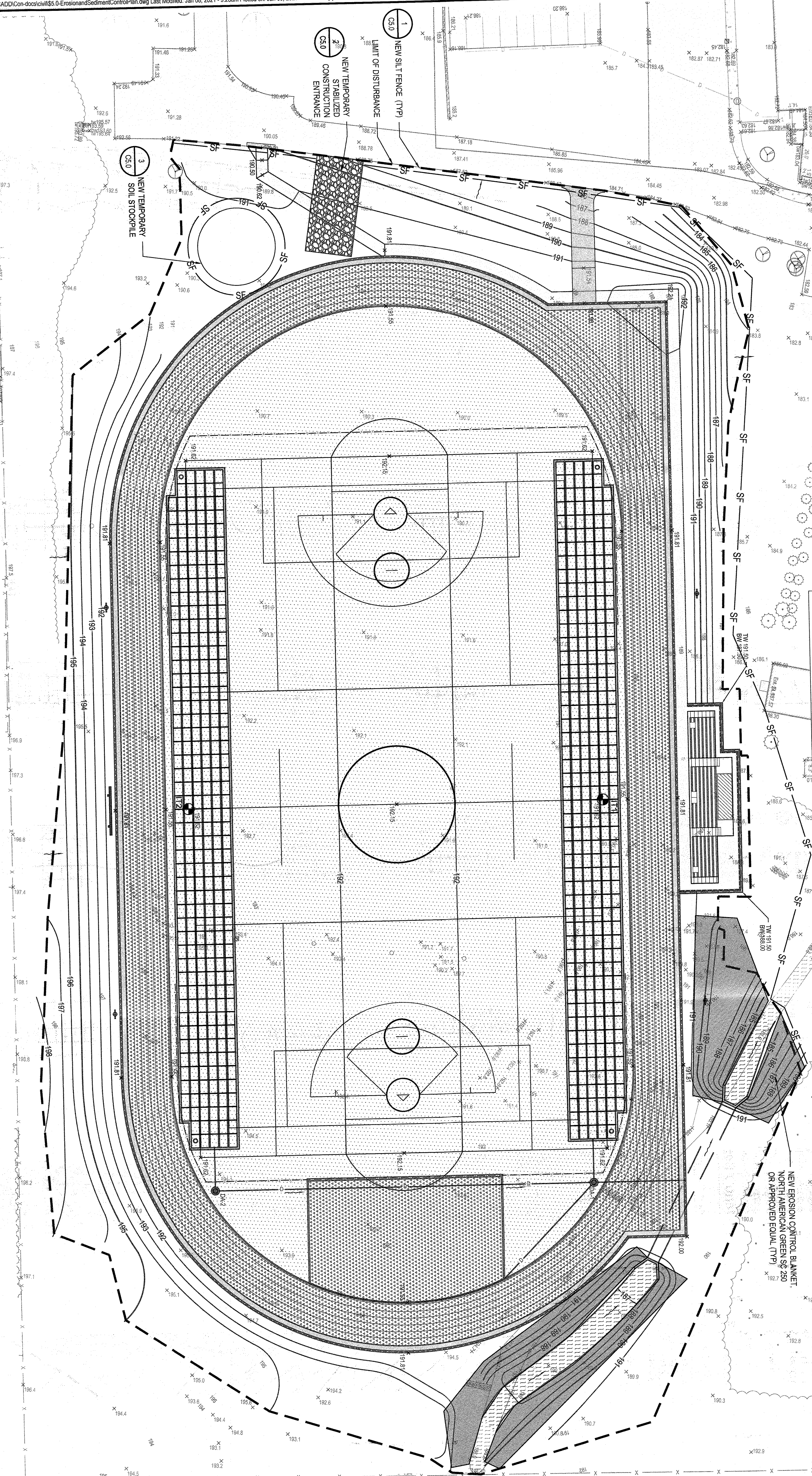
SHEET NO. 5 OF 8

DATE: 07/21

DESCRIPTION: ADDRESS COMMENTS



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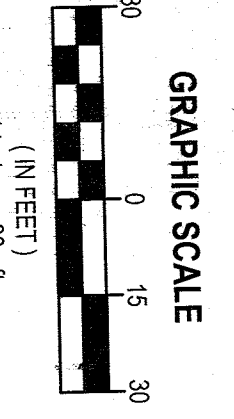
**EROSION CONTROL NOTES:**

- DURING THE COURSE OF CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEASURES ARE NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO UNDISTURBED AREAS, PONDS, WATER COURSES, DRAINAGE SYSTEMS, RESEARCH BASINS, AND ROADS. THE MINIMUM EROSION CONTROL MEASURES REQUIRED ARE INDICATED ON THIS PLAN. IN ADDITION, THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
  - EXISTING VEGETATION SCHEDULED TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
  - INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SEDIMENT FROM THE SITE.
  - SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES MUST CONFORM TO THE LATEST EDITION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
  - INSTALL PROPRIETARY EROSION AND SEDIMENT CONTROL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - ADJUST EROSION AND SEDIMENT CONTROL MEASURES TO ACCOMMODATE CONSTRUCTION PHASING TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES.
  - PROTECT EXISTING DRAINAGE METERS WITHIN THE PROJECT LIMITS AND NEW DRAINAGE INLETS INSTALLED AS PART OF THIS PROJECT FROM SEDIMENT INTRUSION.
  - PERFORM INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE BUT ARE NOT LIMITED TO: CLEANING AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
  - UTILIZE APPROPRIATE MEANS TO CONTROL DUST DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: APPLYING WATER TO BARE SOIL SURFACES.
  - MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. MAINTAIN THE CONSTRUCTION ENTRANCE WEEKLY UNTIL THE SITE IS PERMANENTLY STABILIZED.
  - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AFTER PERMANENT STABILIZATION. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.

**TOTAL LAND DISTURBANCE = 4.81 ACRES**

**STORMWATER POLLUTION PREVENTION PLAN NOTES:**

- PURSUANT TO THE REQUIREMENTS OF SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITY GP-0-15-002 ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED FOR THIS PROJECT. ADHERE TO AND IMPLEMENT ALL REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- REVIEW THE SWPPP AND SIGN IN THE LOCATION SHOWN STATING THAT ALL WORK PERTAINING TO EROSION AND SEDIMENT CONTROL WILL BE PERFORMED WITHIN REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN.
- THE OWNER SHALL PROVIDE A QUALIFIED INSPECTOR WHO WILL PERFORM WEEKLY INSPECTIONS AT THE CONSTRUCTION SITE. THE QUALIFIED INSPECTOR SHALL MEET THE REQUIREMENTS OUTLINED IN SPDES GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITY (GP-0-15-002). IF THE INSPECTORS FIND ANY DEVIATIONS FROM THE SWPPP OR THE EROSION AND SEDIMENT CONTROL PLAN IT WILL BE NOTED. THE CONTRACTOR WILL HAVE 7 DAYS TO CORRECT ANY DEVIATIONS SO THAT IT COMPLES WITH THE REQUIREMENTS OF THE SWPPP AND EROSION AND SEDIMENT CONTROL PLAN. IN THE EVENT THAT MORE THAN 5 ACRES OF SOIL IS DISTURBED AT ANY TIME, 2 WEEKLY INSPECTIONS WILL BE PERFORMED.



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**PROJECT No.** 6  
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**STATUS**  
REGULATORY REVIEW

**CONTRACT**  
ALL CONTRACTS

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10962  
SEC. 7A.06, BLOCK 3, P10  
LOTS 1.1 & 1.3**

**DOMINICAN COLLEGE**  
ATHLETIC COMPLEX  
SYNTHETIC TURF FIELD

**DOMINICAN COLLEGE**

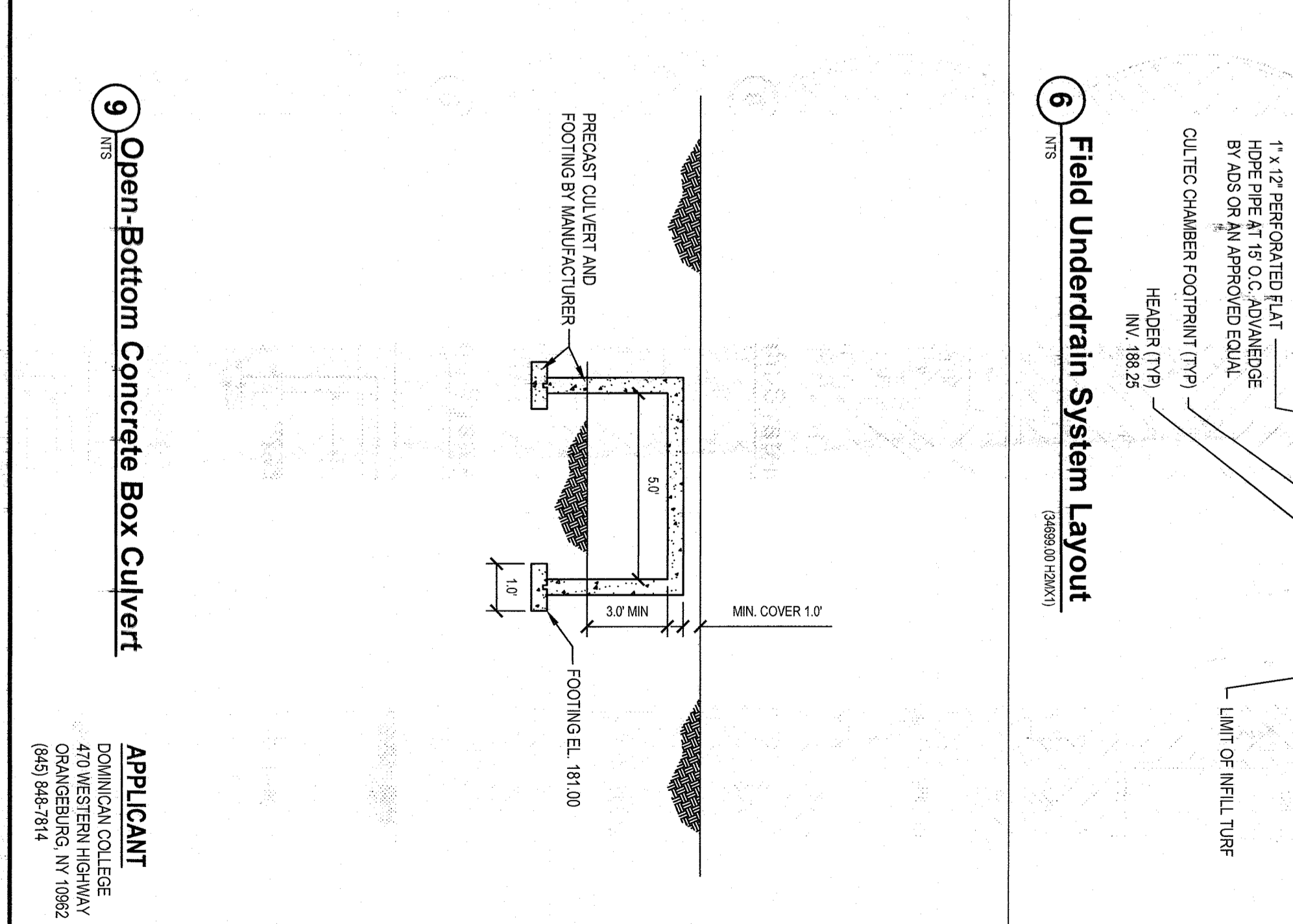
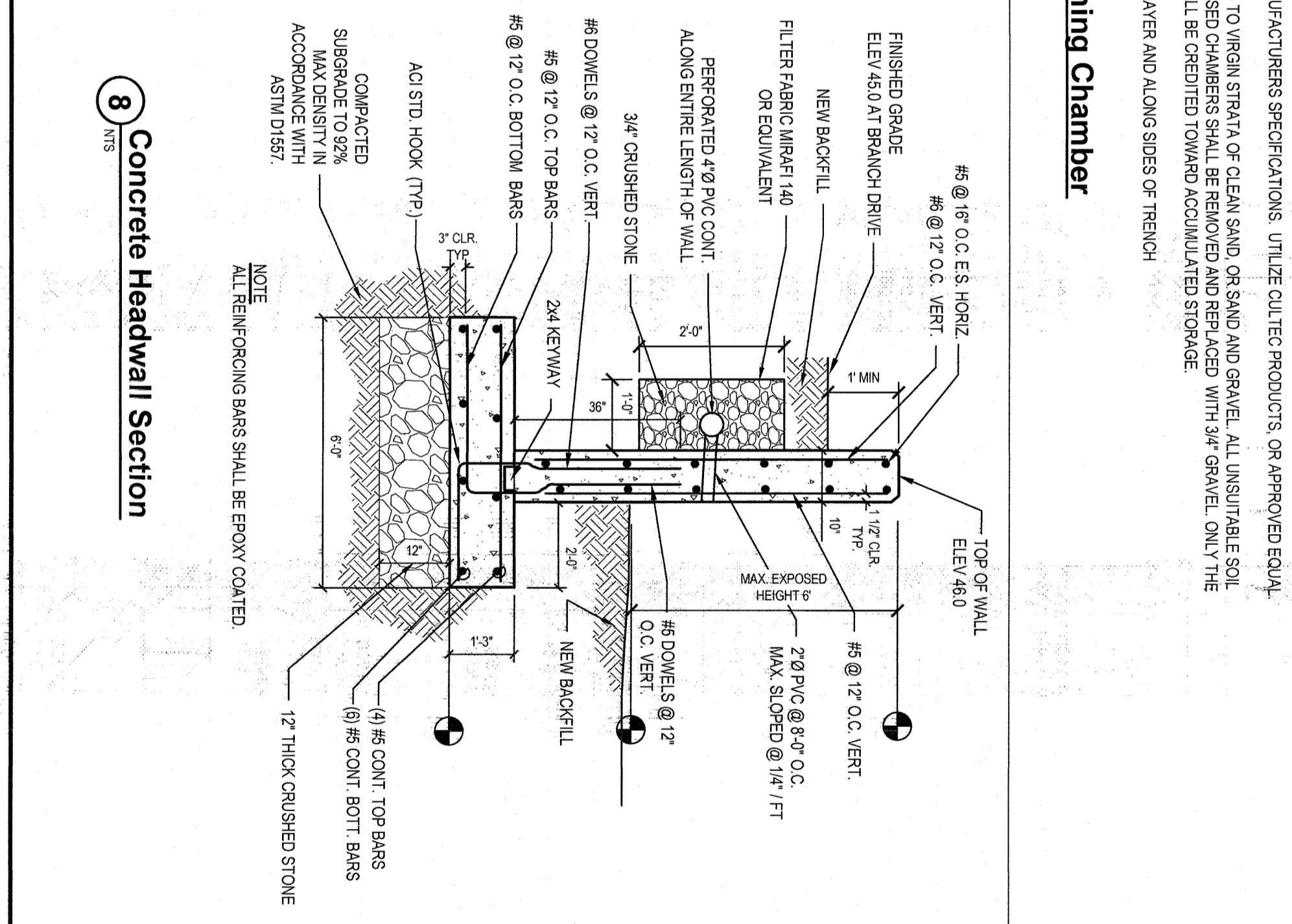
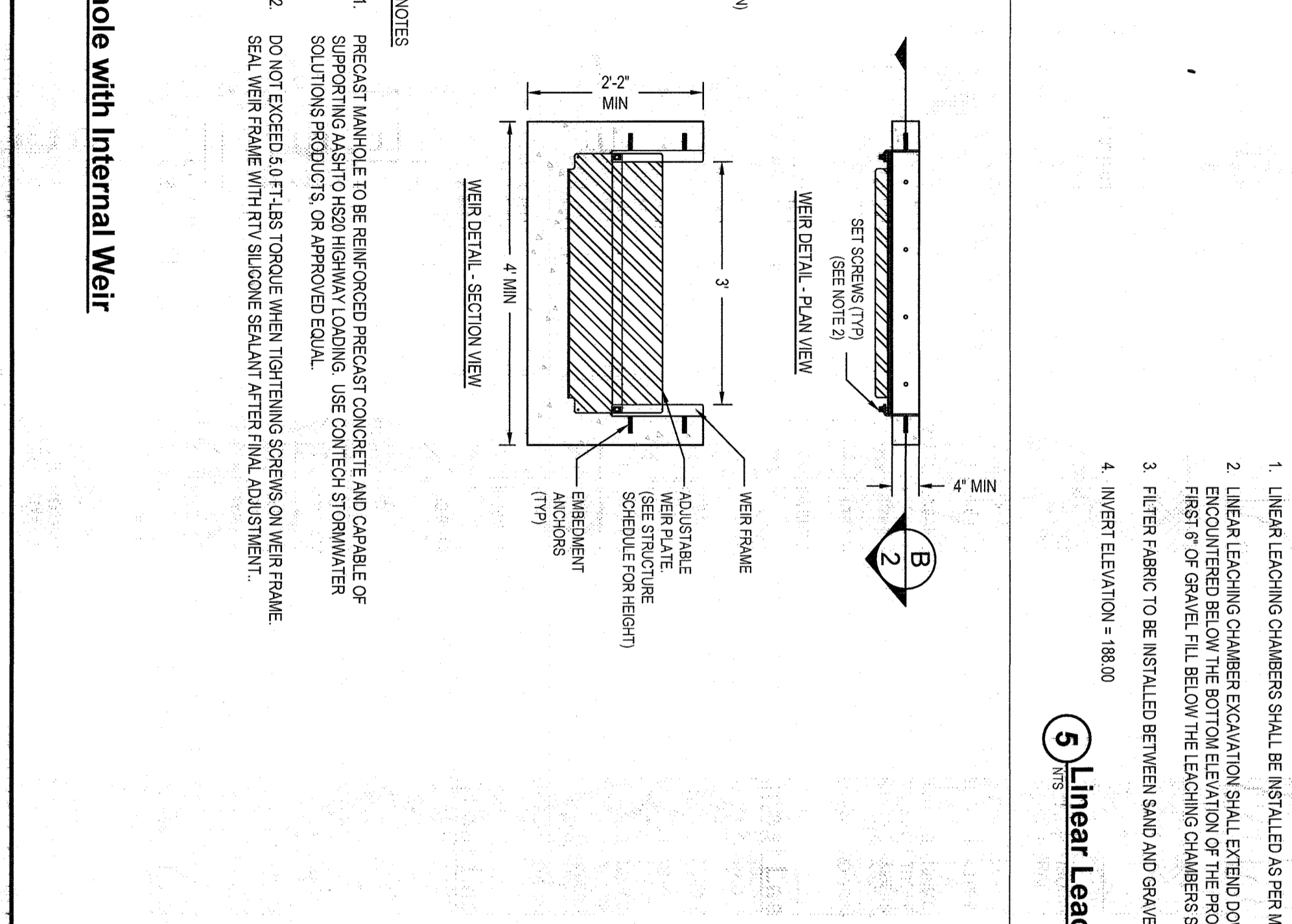
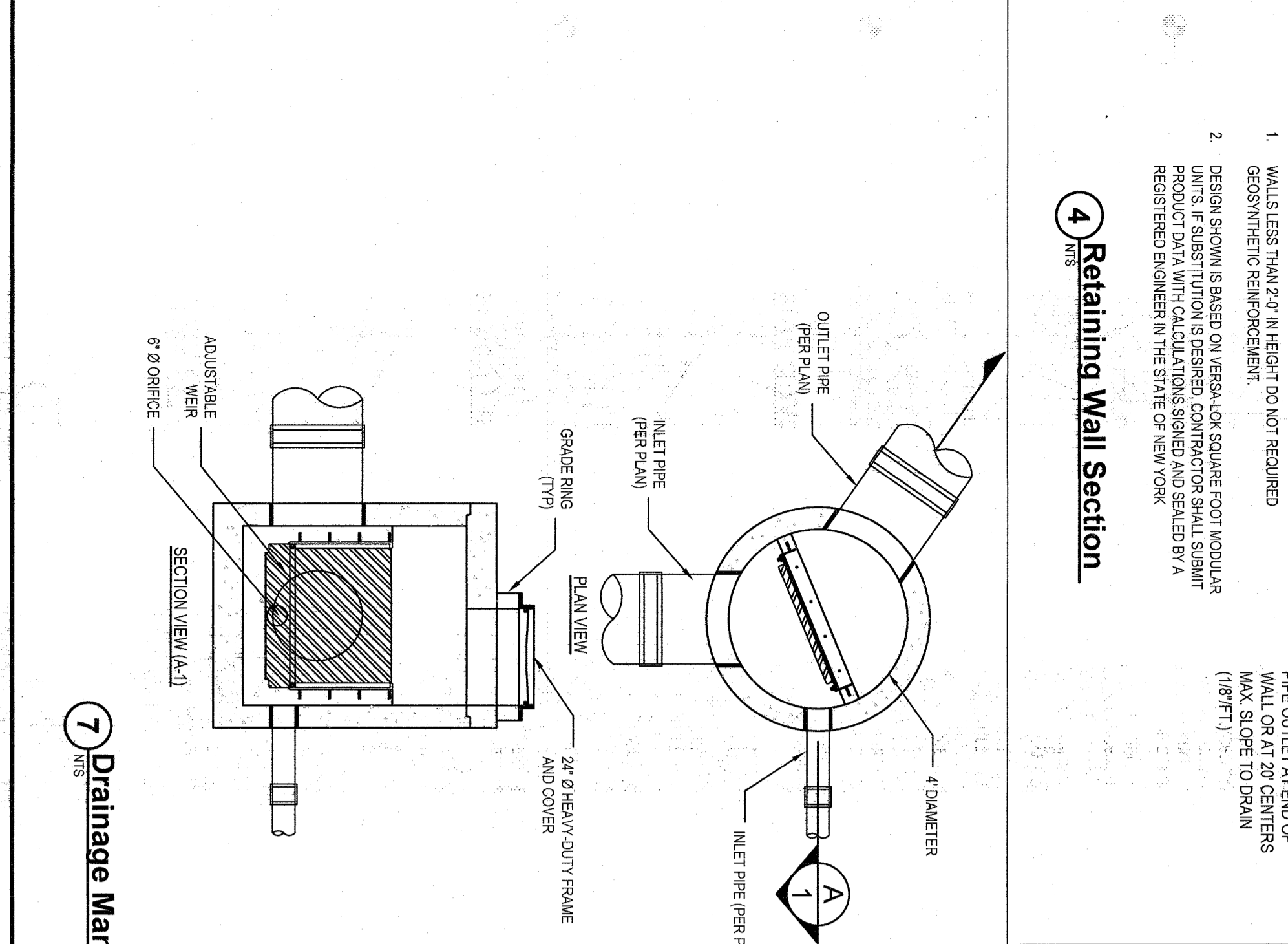
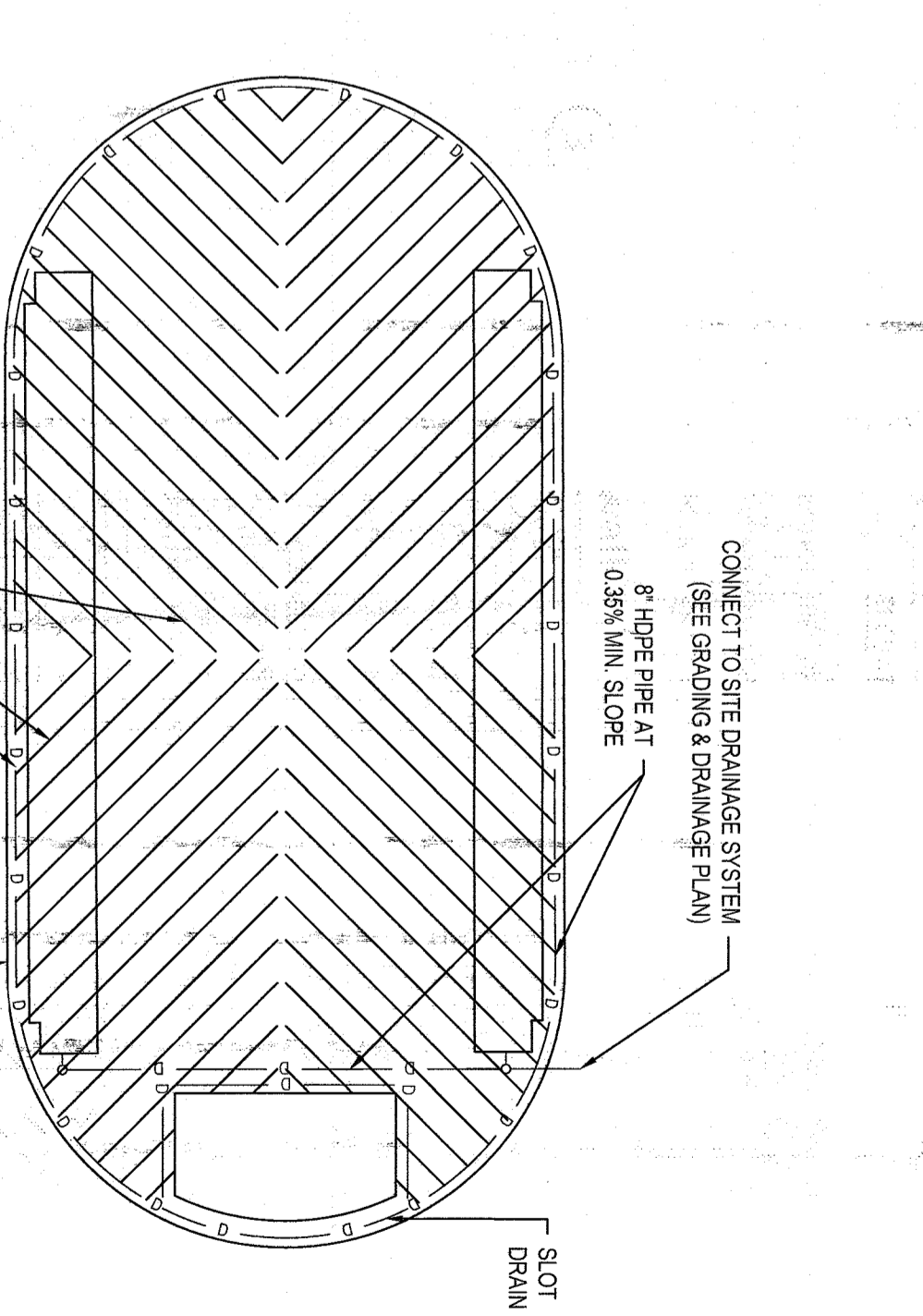
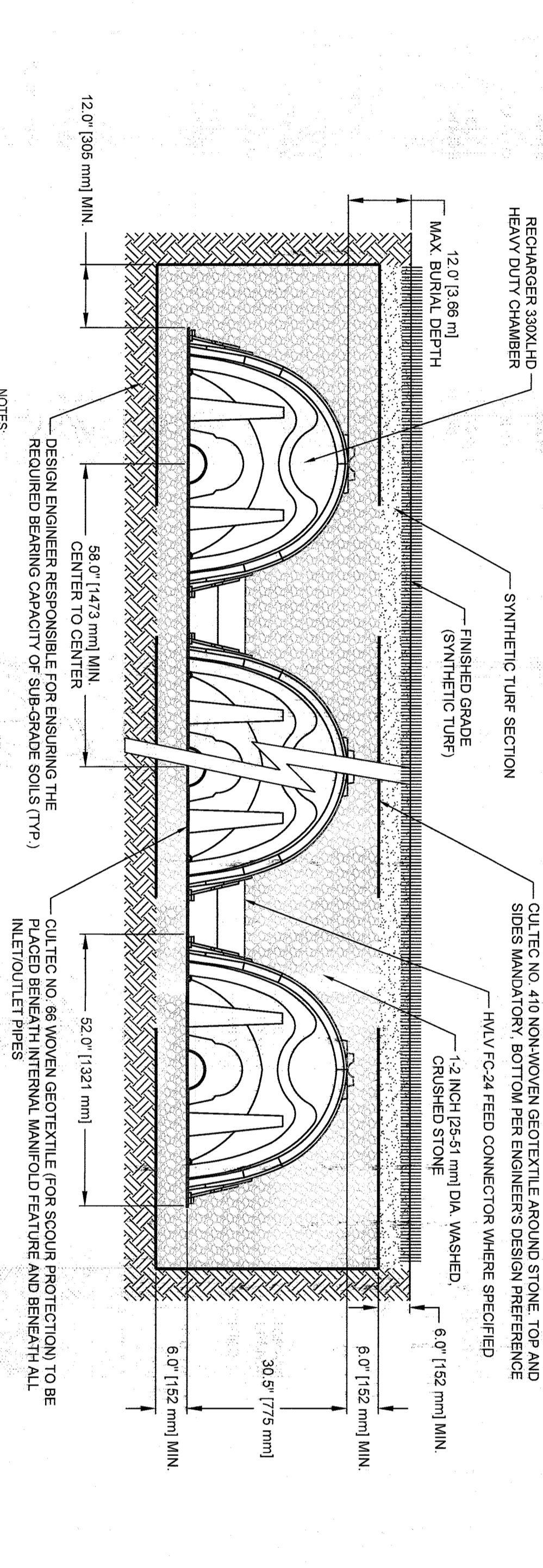
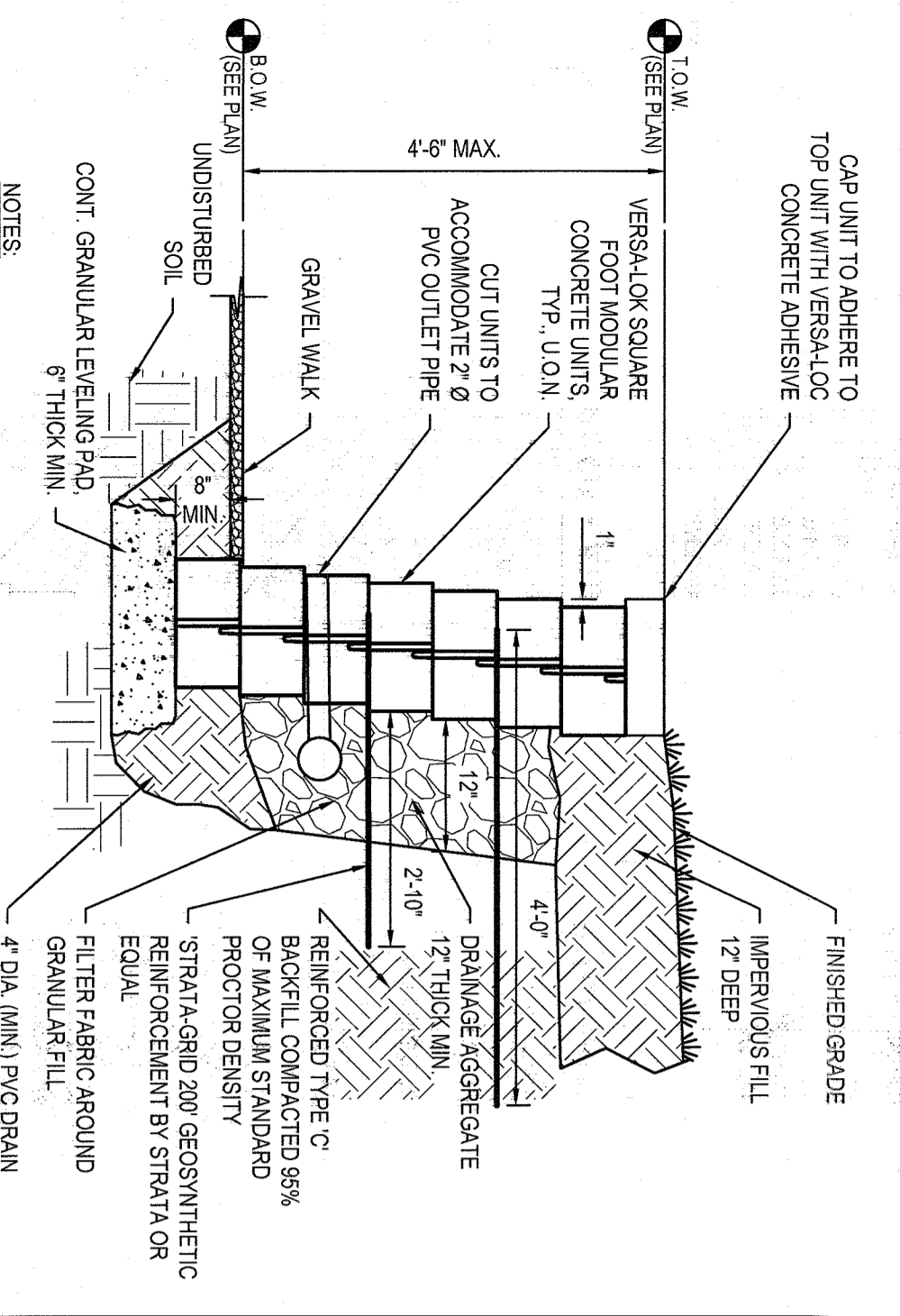
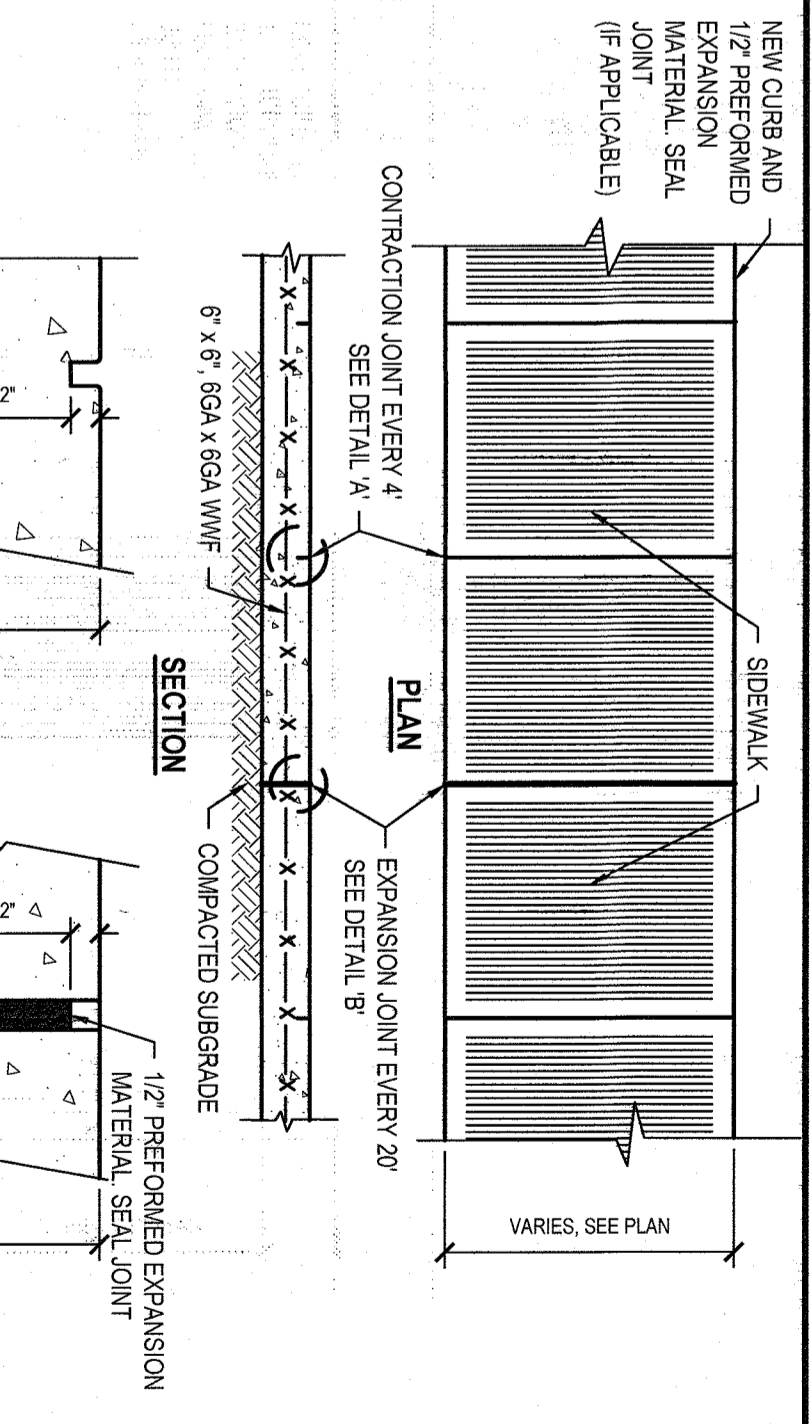
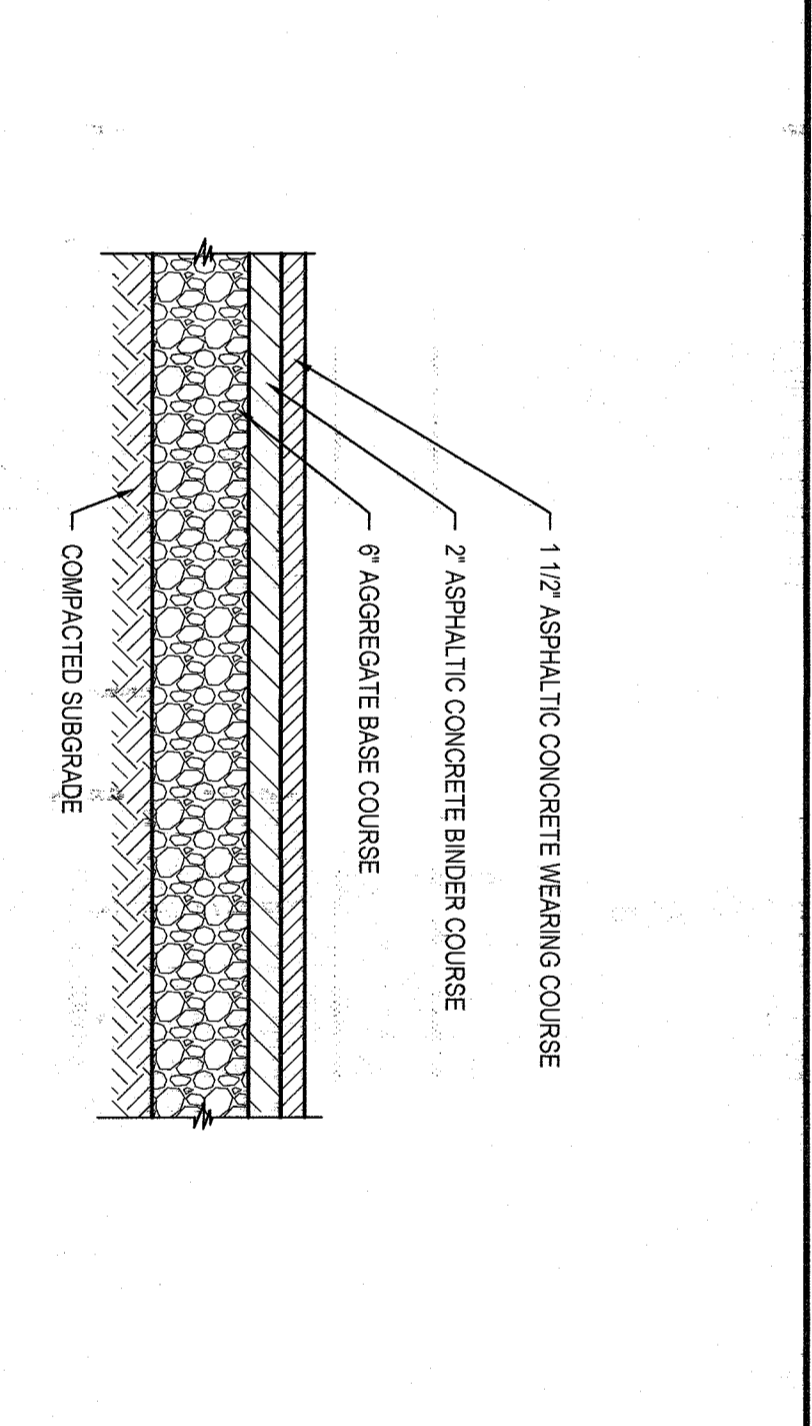
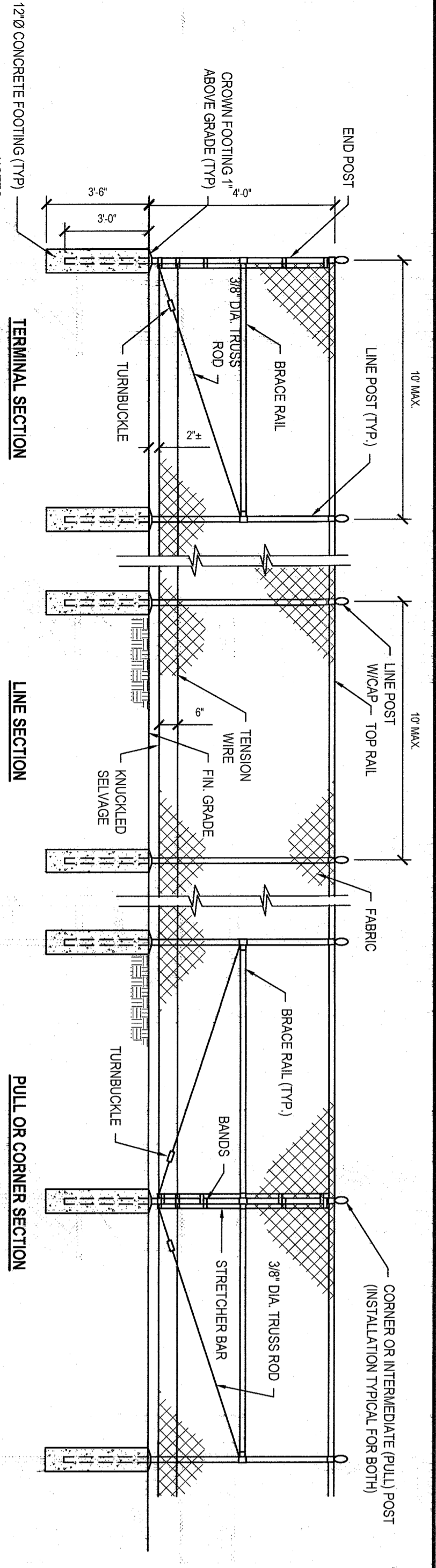
**PROJECT No.** 6  
**OF** 8

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**STATUS**  
REGULATORY REVIEW

**SHEET TITLE**  
SITE DETAILS

**PROJECT**  
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ORANGETURB, NEW YORK  
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SEC. 7A.06 BLOCK 3, P/O  
LOTS 1.1 & 1.3

**MARK**  
1  
DATE  
01/11/21  
DESCRIPTION  
ADDRESS COMMENTS

**DESIGNED BY**  
DRAWN BY  
CHECKED BY  
DATE  
PROJECT NO.  
SCALE AS SHOWN

**PROJECT**  
DOMINICAN COLLEGE  
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ORANGETURB, NEW YORK  
10962  
SEC. 7A.06 BLOCK 3, P/O  
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10962  
SEC. 7A.06 BLOCK 3, P/O  
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1  
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**PROJECT**  
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ORANGETURB, NEW YORK  
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SEC. 7A.06 BLOCK 3, P/O  
LOTS 1.1 & 1.3

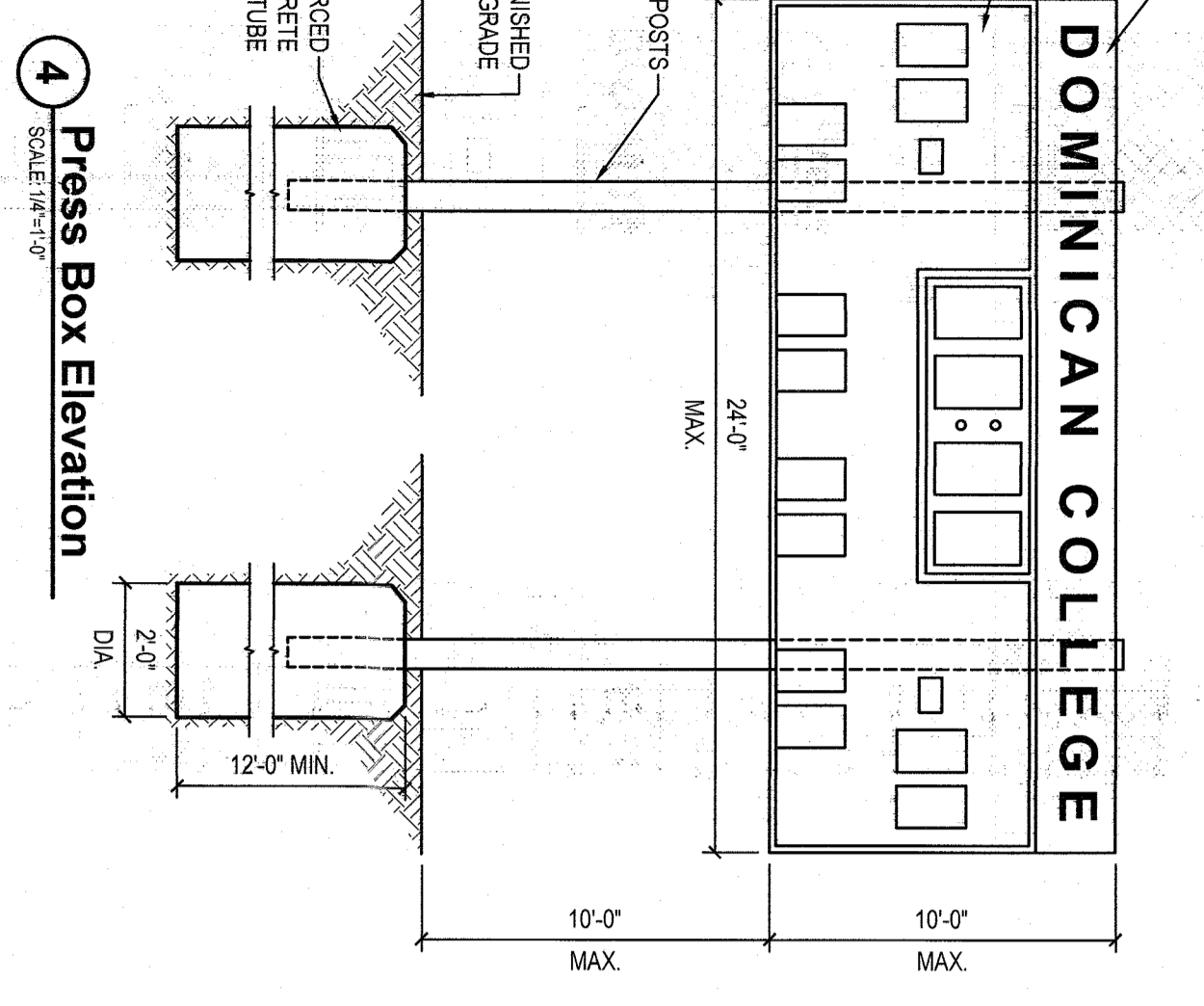
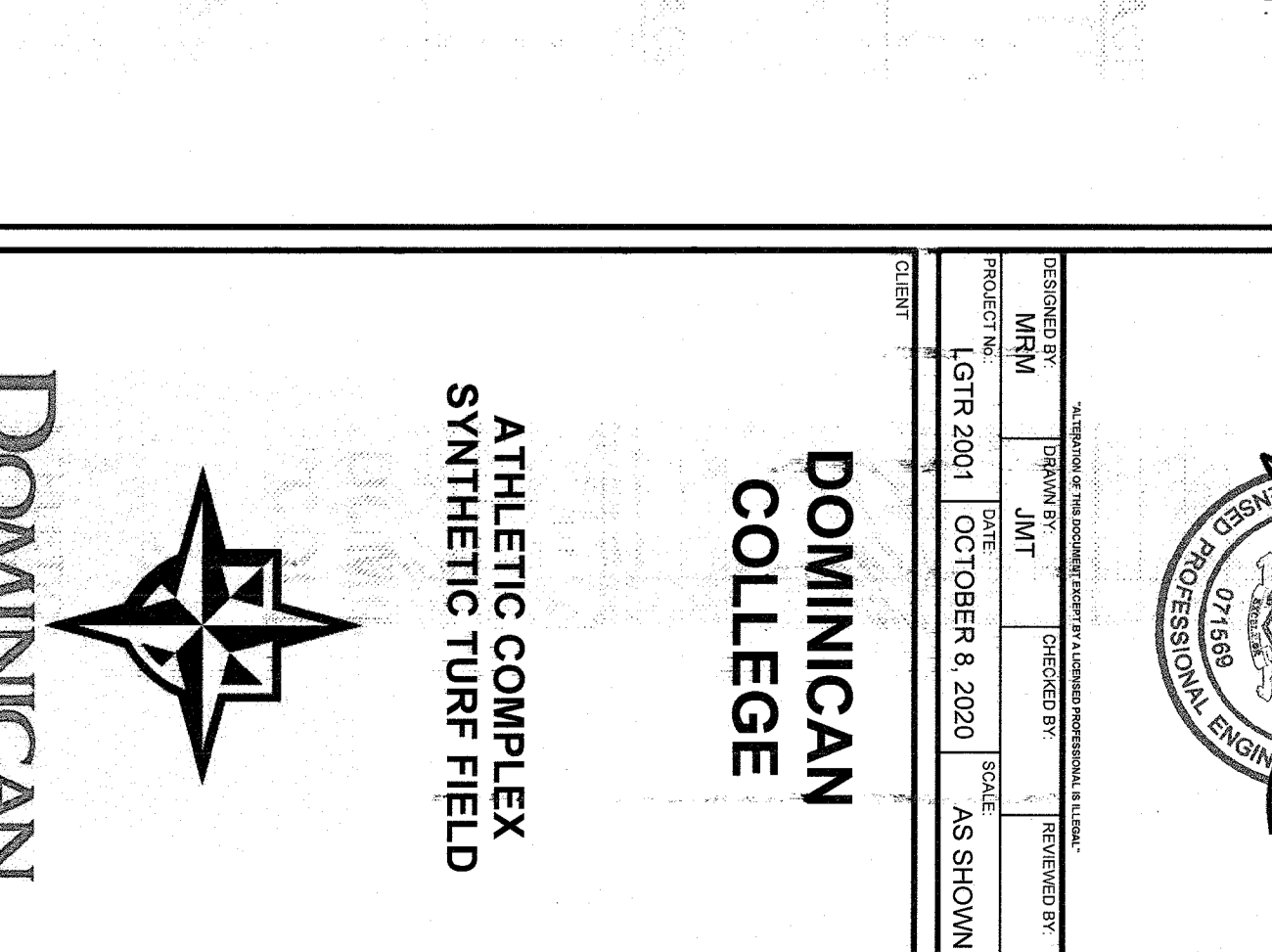
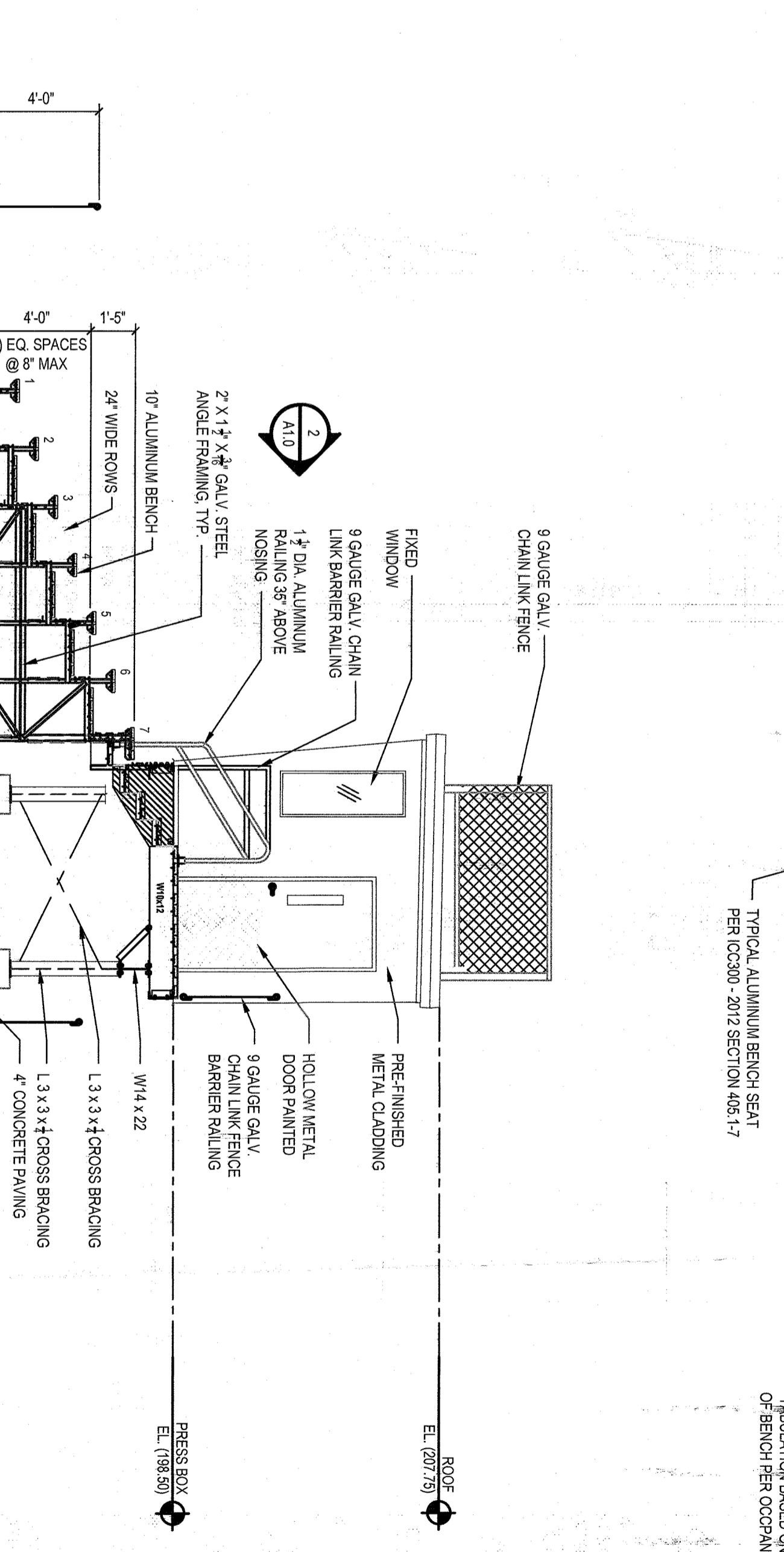
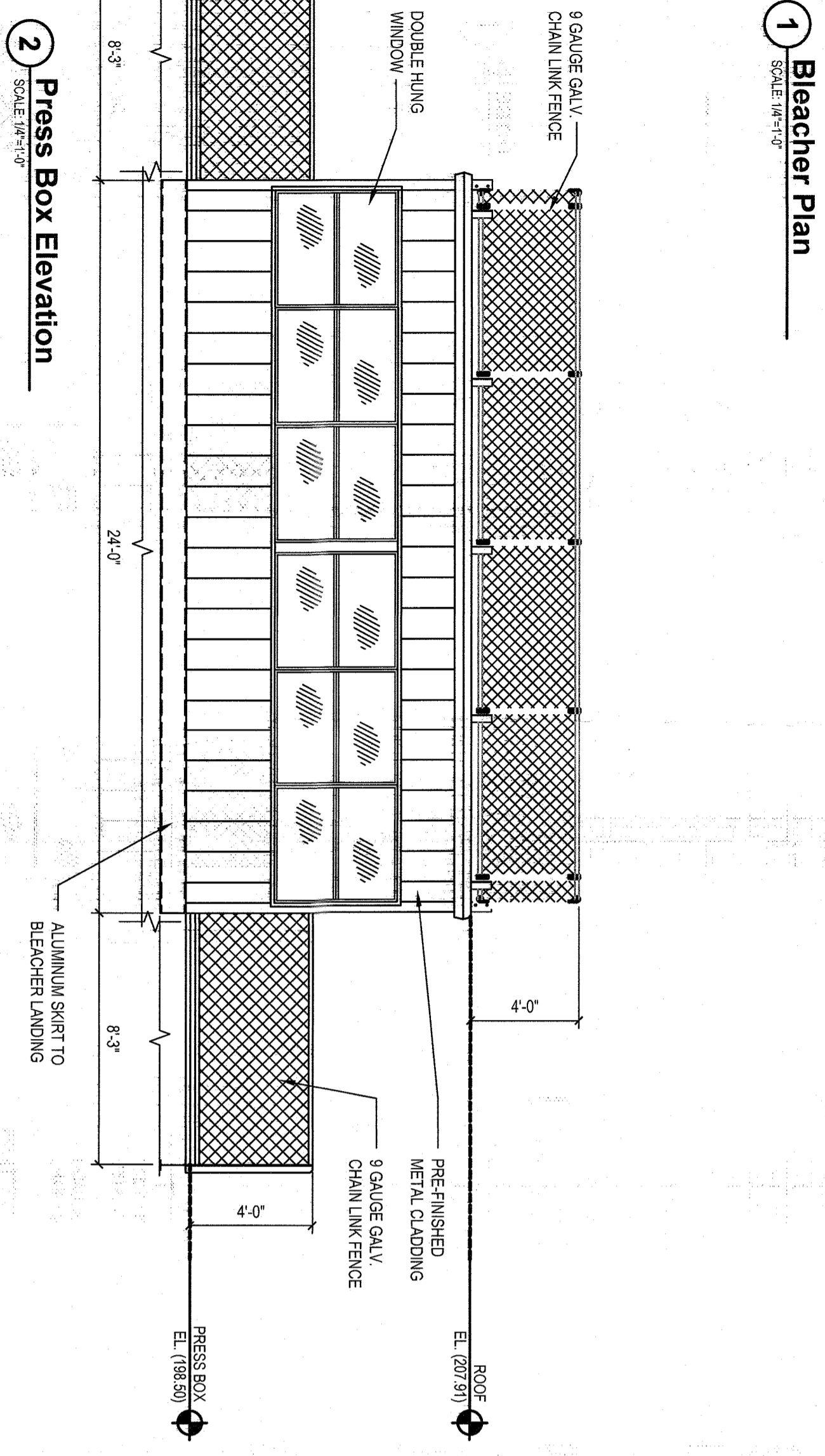
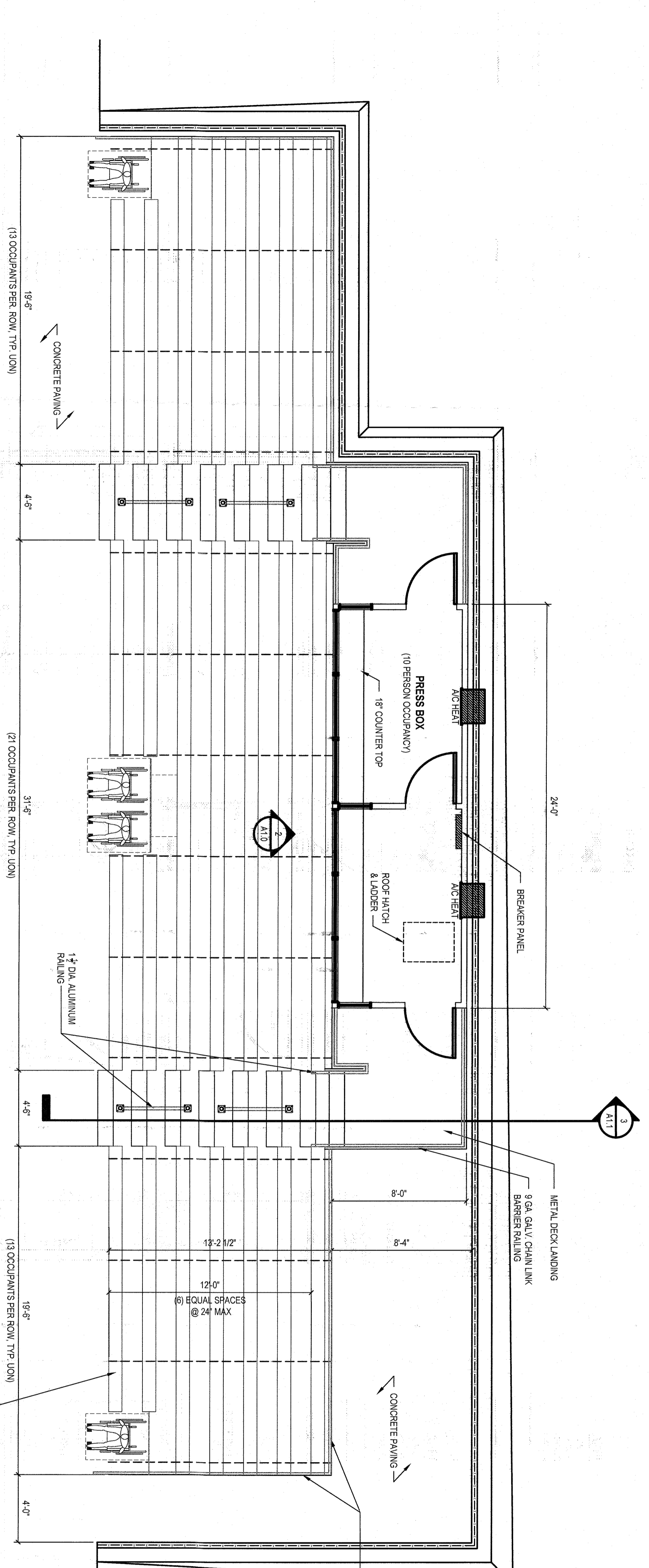
**CONTRACT**  
ALL CONTRACTS

**STATUS**  
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**SHEET TITLE**  
SITE DETAILS

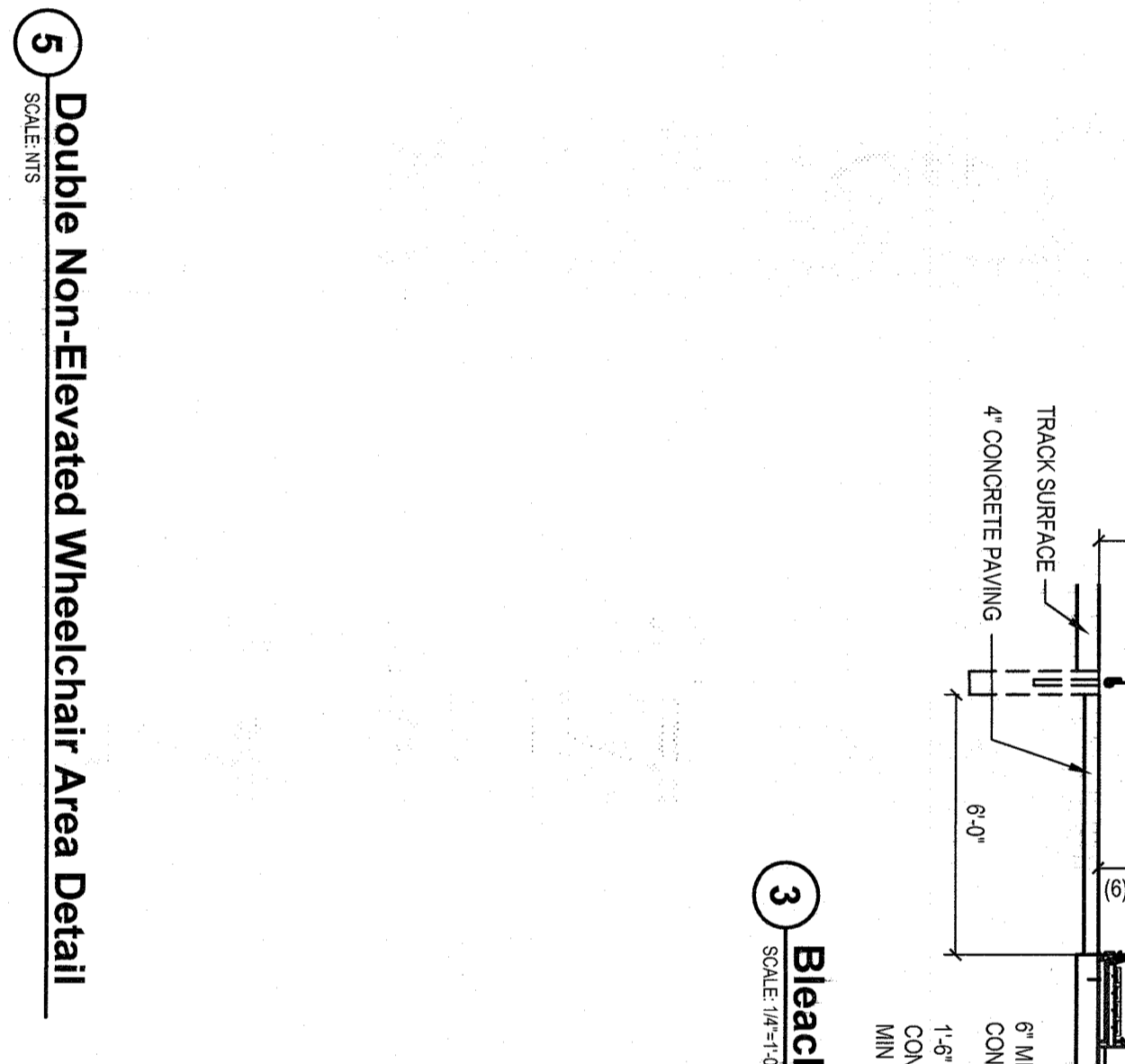
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**GENERAL WORK NOTES**

1. THE MANUFACTURER SHALL COORDINATE ALL WORK WITH THE DESIGNATED COLLEGE REPRESENTATIVE PRIOR TO THE BEGINNING OF WORK.
2. THE MANUFACTURER IS RESPONSIBLE TO PROVIDE ENGINEERED SHOP DRAWINGS FOR ALL COMPONENTS OF THE PRESS BOX, BLEACHERS AND ABOVE GRADE FRAMING. THE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A LICENSED P.E. REGISTERED IN THE STATE OF NEW YORK. ANY MODIFICATIONS TO THE FRAMING REQUIRED TO MEET ALL CURRENT CODE REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER'S ENGINEER.
3. CONTRACTOR TO COORDINATE ALL COMPONENTS AND STRUCTURE OF THE PRE-ENGINEERED PRESS BOX AND BLEACHERS WITH EXISTING CONDITIONS PRIOR TO SITE MOBILIZATION AND FINAL SIGN OFF OF ENGINEERED SHOP DRAWINGS.



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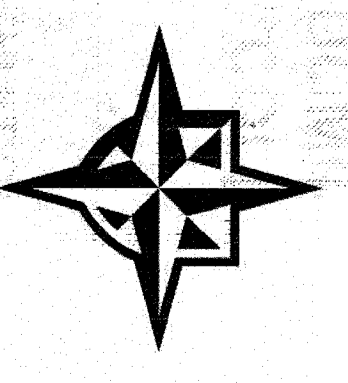
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CONTRACT  
**SINGLE CONTRACT**

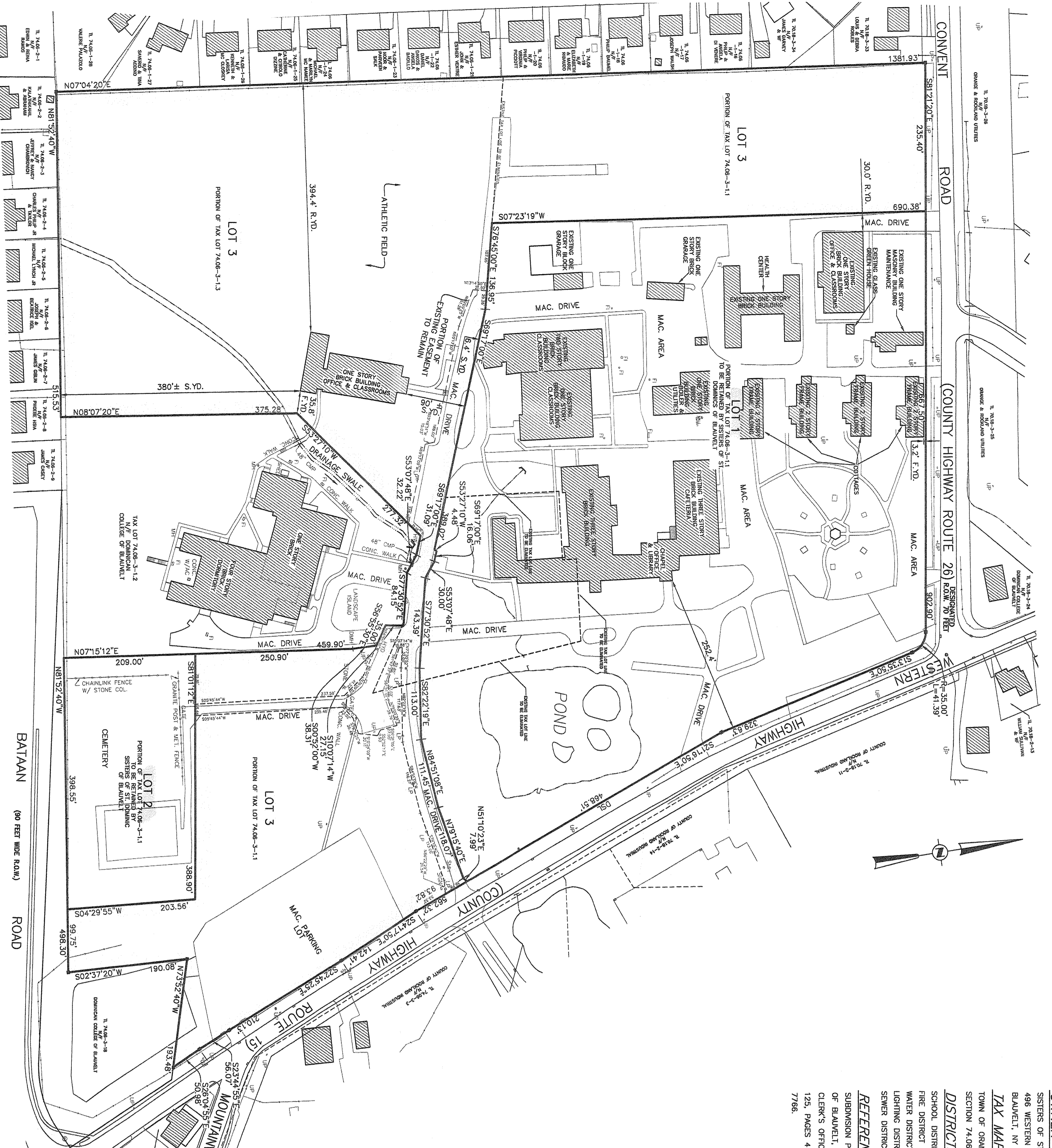
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**REGULATORY REVIEW**

SHEET TITLE  
**BLEACHER SITE PLAN, SECTION, AND ELEVATIONS**

DRAWING NO.  
**C7.0**

SHEET NO.  
8 OF 8





**TABLE OF BULK REQUIREMENTS**

ZONE: R-40 GROUP H	10.9 AC	1.68 AC	17.7 AC
MAXIMUM FLOOR AREA RATIO	0.15	0.22	0.07
MAXIMUM DEVELOPMENT COVERAGE	0.75	0.31	0.10
MINIMUM LOT AREA	80,000 SF.	652,024 SF.	748,902 SF. NET
MINIMUM LOT WIDTH	300 FT.	N/A CORNER LOT	500 FT.
MINIMUM STREET FRONTAGE	150 FT.	1,465.6 FT.	388.6 FT.
MINIMUM FRONT YARD	100 FT.	3.2 FT. EXIST.	35.8 FT. EXIST.
MINIMUM SIDE YARD	100 FT.	6.4 FT. EXIST.	90 FT. EXIST.
MINIMUM REAR YARD	200 FT.	N/A CORNER LOT	470 FT. EXIST.
MINIMUM BUILDING HEIGHT	LOTS 1&3 37 FT.	30 FT. EXIST.	394.9 FT. EXIST.
MINIMUM BUILDING HEIGHT	LOT 2 25 FT.	-	-

**PROPOSED USE**  
 LOT 1 AND 2 TO BE RETAINED BY SISTERS OF ST. DOMINIC OF BLAUVELT FOR CONTINUATION OF RELIGIOUS USE.  
 LOT 3 EXISTING ACADEMIC USE

**LOT AREA BREAKDOWN**  
**LOT 1**  
 NO CREDITS OR ENCUMBRANCES  
 652,024 S.F. TOTAL

**LOT 2**  
 NO CREDITS OR ENCUMBRANCES  
 81,021 S.F. GROSS & NET AREA

**LOT 3**  
 771,381 S.F. TOTAL  
 -22,879 S.F. 1/2 EASEMENT AREA  
 748,502 S.F. NET AREA

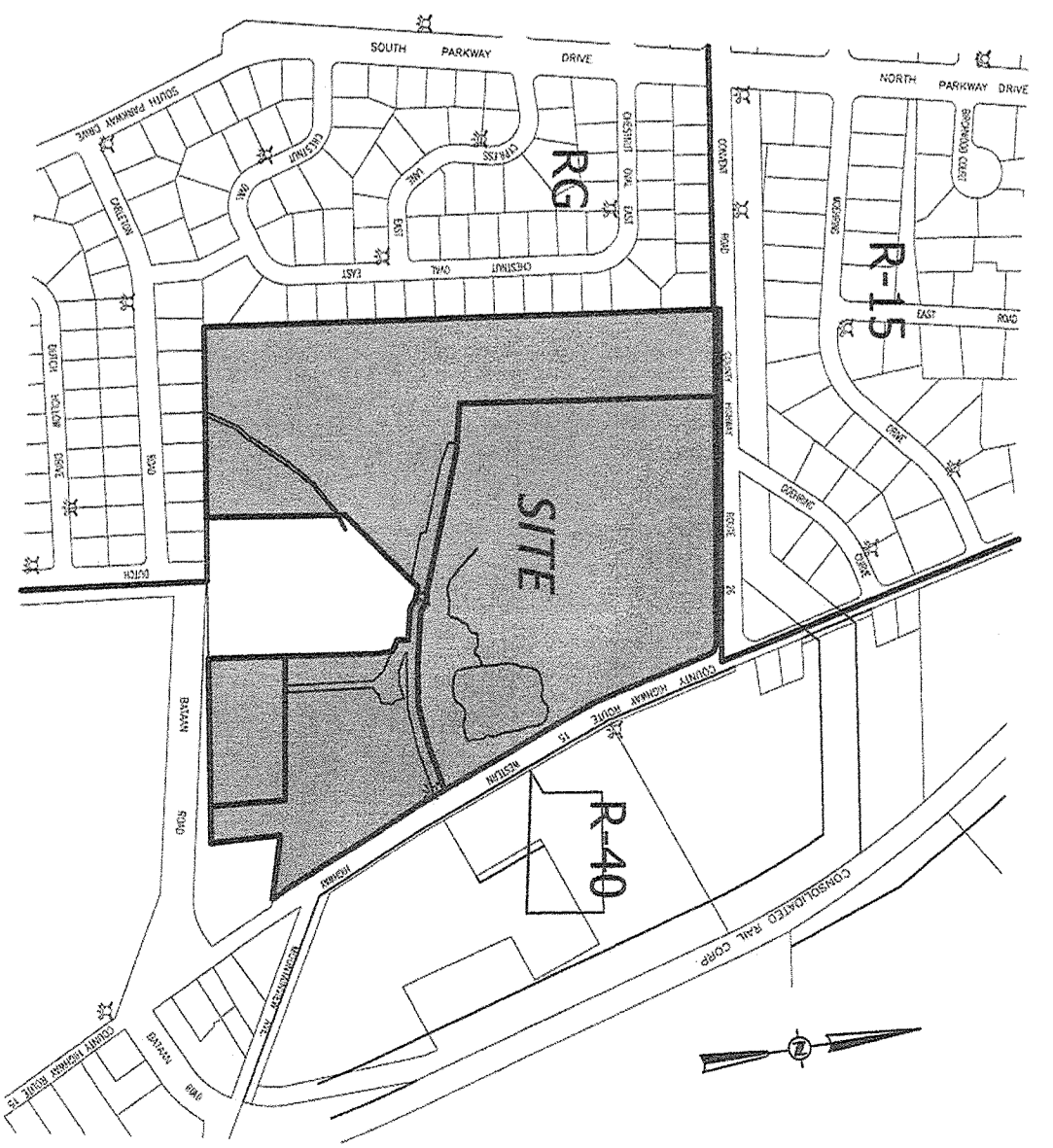
**OWNER & APPLICANT:**  
 SISTERS OF ST. DOMINIC OF BLAUVELT  
 496 WESTERN HIGHWAY  
 BLAUVELT, NY 10913

**TAX MAP REFERENCE:**  
 TOWN OF ORANGETOWN TAX MAP  
 SECTION 74.06, BLOCK 3, LOTS 1.1 & 1.3

**DISTRICTS:**  
 SCHOOL DISTRICT - SOUTH ORANGETOWN  
 FIRE DISTRICT - ORANGETOWN  
 WATER DISTRICT - BLAUVELT  
 LIGHTING DISTRICT - TOWN OF ORANGETOWN  
 SEWER DISTRICT - ORANGETOWN SEWER

**REFERENCE:**  
 SUBDIVISION PLAT OF "SISTERS OF ST. DOMINIC OF BLAUVELT, FILED IN THE ROCKLAND COUNTY CLERK'S OFFICE ON JUNE 21, 2005, IN BOOK 125, PAGES 4 & 5, AS MAP NO. 3 7765 & 7766.

- GENERAL NOTES:**
1. THIS IS A SUBDIVISION OF LOT NUMBERS 1.1 & 1.3, BLOCK 3, SECTION 74.06 AS SHOWN ON THE TOWN OF ORANGETOWN TAX MAP.
  2. TOTAL AREA OF TRACT = 1,507,912 SQ. FT. OR 34.61 ACRES
  3. TOTAL NUMBER OF LOTS = 3
  4. DATUM: UGSS
  5. ALL UTILITIES ARE TO BE INSTALLED UNDERGROUND - NONE PROPOSED.
  6. THIS PLAT DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP, AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 2381 OF THE GENERAL MUNICIPAL LAW.
  7. THIS PLAT IS SUBJECT TO DETAILS OF GRADING, ROADS AND UTILITIES AS SHOWN ON THE CONSTRUCTION PLANS APPROVED BY THE TOWN OF ORANGETOWN AND FILED WITH THE TOWN CLERK.
  8. NO BUILDING PERMIT WILL BE ISSUED UNTIL HOUSE AND SITE PLANS HAVE BEEN APPROVED BY A.C.A.B.O.A.R.
  9. WATER SUPPLY BY UNITED WATER NEW YORK.
  10. LOT PACKAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
  11. ANY EXISTING UTILITIES (POLES, APPRANTS, ETC.) AFFECTED BY CONSTRUCTION UTILITIES SHOWN SHALL BE PRESERVED BY THE DEVELOPER'S EXPENSE, PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
  12. ALL PROPERTY CORNERS SHALL BE MARKED WITH 3/4" DIA. IRON PINS SHOWN THUS - CONCRETE MONUMENTS ARE TO BE INSTALLED AT ALL LOCATIONS WITH THE SYMBOL SHOWN THUS -
  13. NO BUILDING PERMIT WILL BE ISSUED UNTIL SEWAGE DISPOSAL ARRANGEMENTS HAVE BEEN APPROVED BY THE ROCKLAND COUNTY HEALTH DEPARTMENT AND/OR TOWN OF ORANGETOWN.
  14. SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT SPECIFICATIONS FOR SIDEWALKS AND CURBS.
  15. CERTIFICATE OF OCCUPANCY SHALL NOT BE REQUESTED FROM THE ROCKLAND COUNTY HEALTH DEPARTMENT UNTIL THE RESULTS OF THE WATER AND SEWER ANALYSES HAVE BEEN REVIEWED BY AN ENGINEER AND APPROVED BY THE DIRECTOR, DIVISION OF SEWERS.
  16. TREE PROTECTION: A TREE PROTECTION PROGRAM WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES, STEPS WHICH WILL BE TAKEN TO PRESERVE AND PROTECT EXISTING TREES ARE AS FOLLOWS:  
 A. UNDER THE TREE CANOPY, IT SHALL BE PARKED  
 B. THERE WILL BE NO EXCAVATION OR STOOPING OF EARTH UNDERNEATH THE TREES.  
 C. TREES TO BE PRESERVED ARE TO BE MARKED CONSPICUOUSLY  
 D. TREES TO BE PRESERVED WILL BE FENCED AT THE GRIP LINE.  
 E. NO EARTH FILLS GREATER THAN 6 IN. WILL BE MADE BENEATH TREES TO BE PRESERVED.  
 F. IN FILL AREAS, TREES WILL BE PRESERVED IN TREE WELLS.  
 G. IN OR THROUGH THE USE OF RETAINING WALLS.  
 H. RETAINING WALLS WILL BE PRESERVED WITH
  17. AT LEAST ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, THE OWNER SHALL NOTIFY THE SUPERVISOR OF THE DIVISION OF SEWERS AND THE SUPERVISOR OF HIGHWAYS AND THE OFFICE OF BUILDING WITH THE DATE SUPERVISOR OF HIGHWAYS AND THE OFFICE OF BUILDING RESPONSIBILITY OF THE PROPERTY OWNER TO ATTEND SUCH A MEETING.
  18. THIS PLAN CONFORMS TO THE "PHASE 2" STORM WATER REGULATIONS FOR THE TOWN OF ORANGETOWN, AS ADOPTED BY THE BOARD OF SUPERVISORS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
  19. ALL VEHICULAR AND PEDESTRIAN ACCESS SHALL BE FROM WESTERN HIGHWAY AND CONVENT ROAD.



**VICINITY MAP**  
 SCALE: 1" = 500'  
 \*\* DENOTES FIRE HYDRANT

**OWNERS APPROVAL FOR FILING**

OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

CHAIRMAN: \_\_\_\_\_ DATE: \_\_\_\_\_

**ROCKLAND COUNTY DRAINAGE AGENCY**

PROJECT: SISTERS OF ST. DOMINIC OF BLAUVELT REALTY SUBDIVISION 2016  
 TOWN OF ORANGETOWN  
 ROCKLAND COUNTY, NEW YORK

1. I HEREBY CERTIFY THAT THIS SUBDIVISION PLAT WAS PREPARED BY US AND WAS MADE FROM AN ACTUAL SURVEY COMPLETED BY US ON OCT. 2, 2013.

STATE OF NEW YORK  
 J. JOSEPH COOK, ESQ.  
 COUNTY CLERK  
 COUNTY OF ROCKLAND

PROJECT: SISTERS OF ST. DOMINIC OF BLAUVELT REALTY SUBDIVISION 2016  
 TOWN OF ORANGETOWN  
 ROCKLAND COUNTY, NEW YORK

PREPARED BY: CORLESS and ASSOCIATES  
 49 MICHAEL ROBERTS COURT  
 PEARL RIVER, NEW YORK 10965

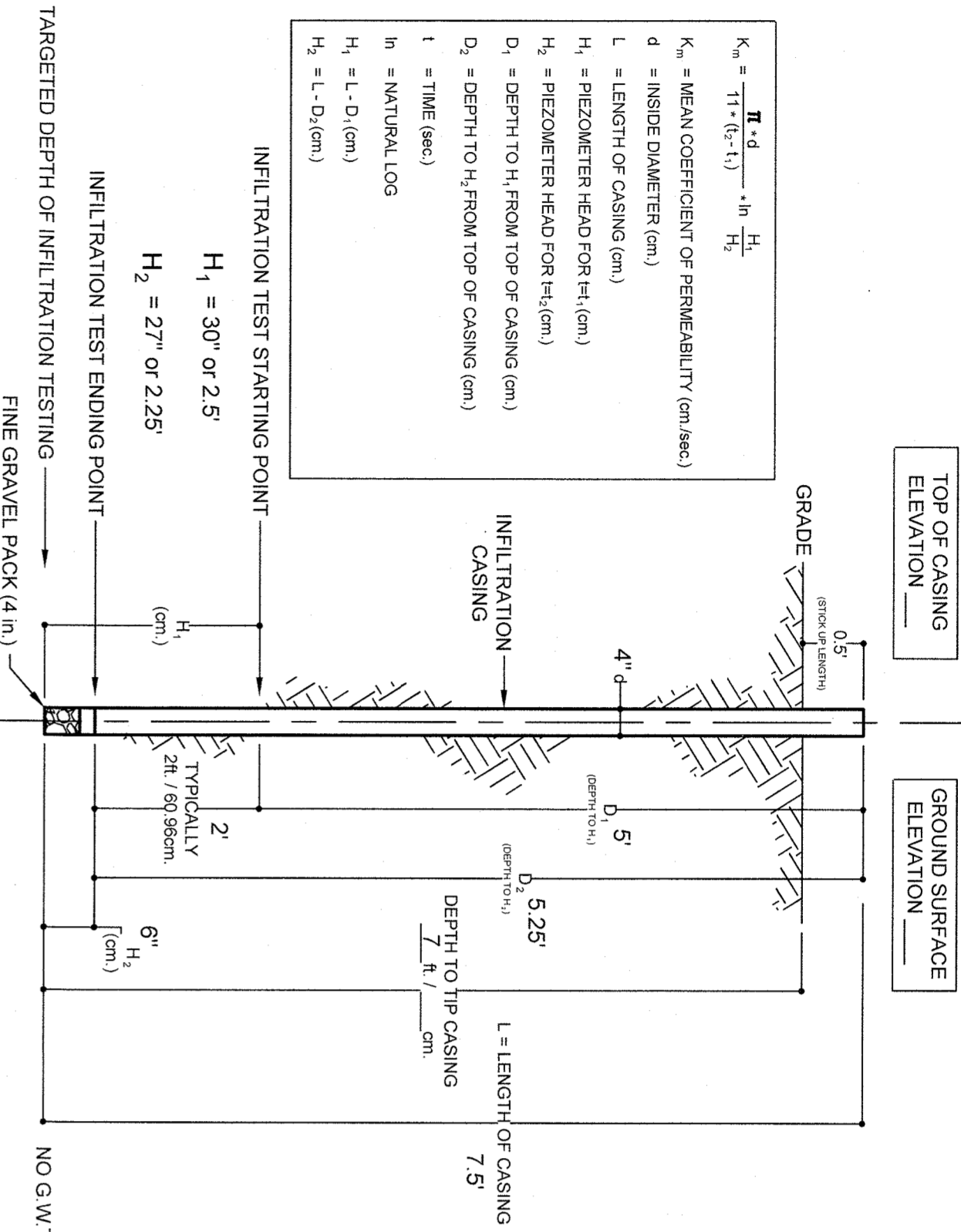
REVISION: No. 1 DATE: 11-5-15 PER PROJECT REVIEW COMMENTS 11-4-15

DRAWN BY: ATZL  
 DATE: OCTOBER 1, 2015  
 PROJECT NO: RSI-2015  
 SCALE: 1 IN. = 100 FT.  
 CHECKED BY: PGC  
 DRAWING NO: 1

**IT-1**

(EL. 190.0') GROUND SURFACE

1	DK BRN ORG LOAM
2	DK BRN FINE SANDY SILT (SM) (ML)
3	DK BRN/GRY/RED BRN SILTY SAND (SM)(FILL)
4	TR GRAVEL, ROCK FRAG. (SM)
5	RED RED BRN SILTY SAND (SM)
6	TR GRAVEL, ROCK FRAG. (SM)
7	RED RED BRN SILTY SAND (SM)
8	TR GRAVEL, ROCK FRAG. (SM)
9	RED RED BRN SILTY SAND (SM)
10	TR GRAVEL, ROCK FRAG. (SM)
11	RED RED BRN SILTY SAND (SM)
12	TR GRAVEL, ROCK FRAG. (SM)
13	RED RED BRN SILTY SAND (SM)
14	TR GRAVEL, ROCK FRAG. (SM)
15	RED RED BRN SILTY SAND (SM)
16	TR GRAVEL, ROCK FRAG. (SM)
17	RED RED BRN SILTY SAND (SM)
18	TR GRAVEL, ROCK FRAG. (SM)
19	RED RED BRN SILTY SAND (SM)
20	RED RED BRN SILTY SAND (SM)
21	REFUSAL @ 22'-0"
22	REFUSAL @ 22'-0"
23	REFUSAL @ 22'-0"
24	REFUSAL @ 22'-0"
25	REFUSAL @ 22'-0"
26	REFUSAL @ 22'-0"
27	REFUSAL @ 22'-0"
28	REFUSAL @ 22'-0"
29	REFUSAL @ 22'-0"
30	REFUSAL @ 22'-0"
31	REFUSAL @ 22'-0"
32	REFUSAL @ 22'-0"
33	REFUSAL @ 22'-0"
34	REFUSAL @ 22'-0"
35	REFUSAL @ 22'-0"
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37	REFUSAL @ 22'-0"
38	REFUSAL @ 22'-0"
39	REFUSAL @ 22'-0"
40	REFUSAL @ 22'-0"
41	REFUSAL @ 22'-0"
42	REFUSAL @ 22'-0"
43	REFUSAL @ 22'-0"
44	REFUSAL @ 22'-0"
45	REFUSAL @ 22'-0"
46	REFUSAL @ 22'-0"
47	REFUSAL @ 22'-0"
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58	REFUSAL @ 22'-0"
59	REFUSAL @ 22'-0"
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61	REFUSAL @ 22'-0"
62	REFUSAL @ 22'-0"
63	REFUSAL @ 22'-0"
64	REFUSAL @ 22'-0"
65	REFUSAL @ 22'-0"
66	REFUSAL @ 22'-0"
67	REFUSAL @ 22'-0"
68	REFUSAL @ 22'-0"
69	REFUSAL @ 22'-0"
70	REFUSAL @ 22'-0"
71	REFUSAL @ 22'-0"
72	REFUSAL @ 22'-0"
73	REFUSAL @ 22'-0"
74	REFUSAL @ 22'-0"
75	REFUSAL @ 22'-0"
76	REFUSAL @ 22'-0"
77	REFUSAL @ 22'-0"
78	REFUSAL @ 22'-0"
79	REFUSAL @ 22'-0"
80	REFUSAL @ 22'-0"



**FALLING HEAD INFILTRATION TEST DATA @ IT-1**

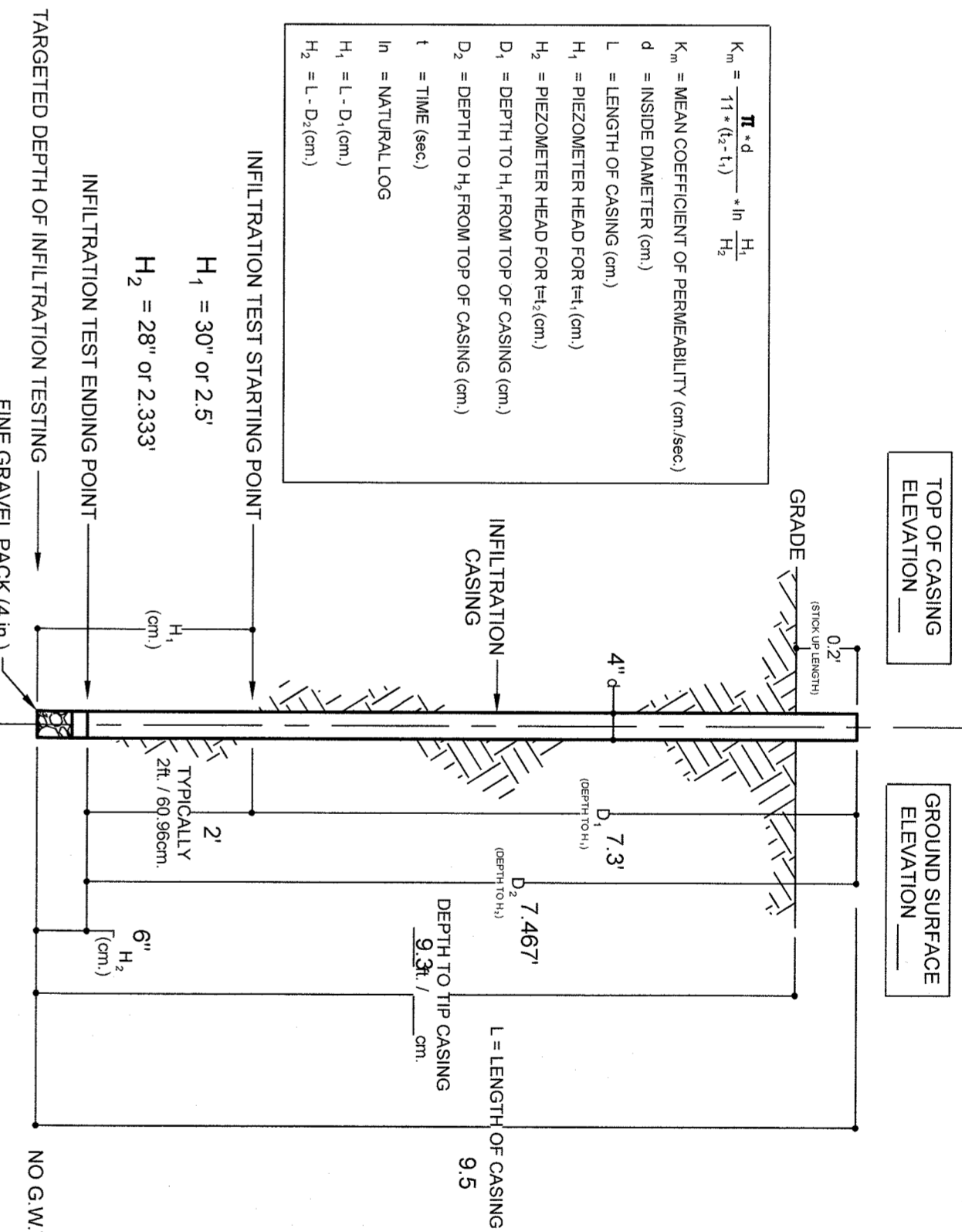
TIME (MIN & SEC)	ELAPSED	COMMENTS
11:23:00min	12:23:00min	WATER LEVEL DROPPED 2" IN 60 MIN
43	43	
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	

ALL UNITS IN CM AND SECONDS  
 $K_s = \frac{11 \cdot (H_1 - H_2)}{L \cdot (t_1 - t_2)}$   
 $K_s = \text{MEAN COEFFICIENT OF PERMEABILITY (CM/SEC)} = 8.69 \times 10^{-5}$

**IT-2**

(EL. 192.2') GROUND SURFACE

1	DK BRN ORG LOAM
2	DK BRN SANDY CLAYEY SILT (ML)(FILL)
3	RED BRN W/GR GRAY SILTY SAND (SM)(FILL)
4	RED RED BRN SILTY SAND (SM)
5	RED RED BRN SILTY SAND (SM)
6	TR GRAVEL, ROCK FRAG. (SM)
7	RED RED BRN SILTY SAND (SM)
8	TR GRAVEL, ROCK FRAG. (SM)
9	RED RED BRN SILTY SAND (SM)
10	TR GRAVEL, ROCK FRAG. (SM)
11	RED RED BRN SILTY SAND (SM)
12	TR GRAVEL, ROCK FRAG. (SM)
13	RED RED BRN SILTY SAND (SM)
14	TR GRAVEL, ROCK FRAG. (SM)
15	RED RED BRN SILTY SAND (SM)
16	TR GRAVEL, ROCK FRAG. (SM)
17	RED RED BRN SILTY SAND (SM)
18	TR GRAVEL, ROCK FRAG. (SM)
19	RED RED BRN SILTY SAND (SM)
20	RED RED BRN SILTY SAND (SM)
21	REFUSAL @ 19'-0"
22	REFUSAL @ 19'-0"
23	REFUSAL @ 19'-0"
24	REFUSAL @ 19'-0"
25	REFUSAL @ 19'-0"
26	REFUSAL @ 19'-0"
27	REFUSAL @ 19'-0"
28	REFUSAL @ 19'-0"
29	REFUSAL @ 19'-0"
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36	REFUSAL @ 19'-0"
37	REFUSAL @ 19'-0"
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39	REFUSAL @ 19'-0"
40	REFUSAL @ 19'-0"
41	REFUSAL @ 19'-0"
42	REFUSAL @ 19'-0"
43	REFUSAL @ 19'-0"
44	REFUSAL @ 19'-0"
45	REFUSAL @ 19'-0"
46	REFUSAL @ 19'-0"
47	REFUSAL @ 19'-0"
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77	REFUSAL @ 19'-0"
78	REFUSAL @ 19'-0"
79	REFUSAL @ 19'-0"
80	REFUSAL @ 19'-0"

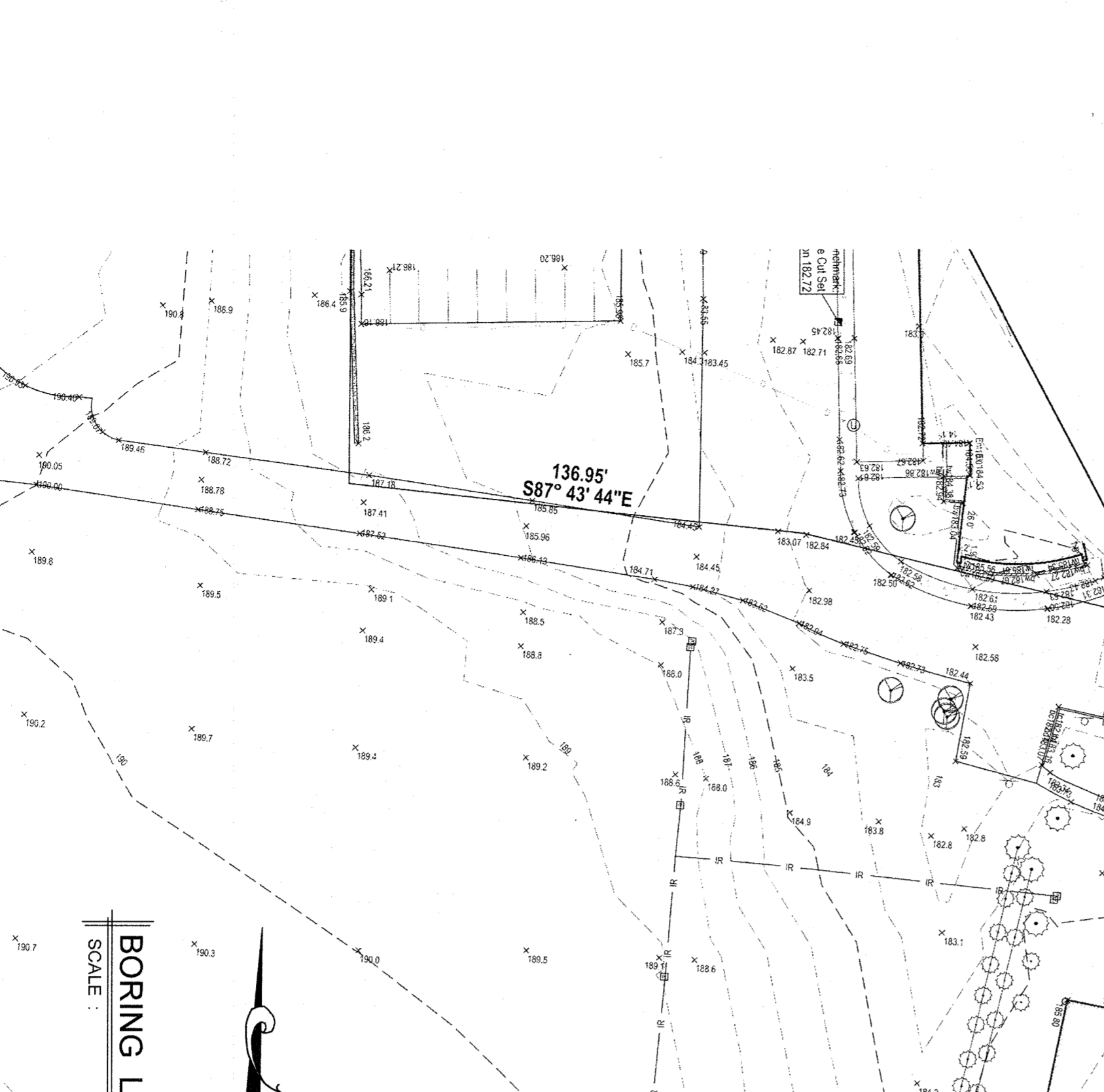


**FALLING HEAD INFILTRATION TEST DATA @ IT-2**

TIME (MIN & SEC)	ELAPSED	COMMENTS
9:30:00min	10:30:00min	WATER LEVEL DROPPED 2" IN 60 MIN
42	42	
43	43	
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	

ALL UNITS IN CM AND SECONDS  
 $K_s = \frac{11 \cdot (H_1 - H_2)}{L \cdot (t_1 - t_2)}$   
 $K_s = \text{MEAN COEFFICIENT OF PERMEABILITY (CM/SEC)} = 5.89 \times 10^{-5}$

- NOTES:**
- SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.
  - SOIL DESCRIPTIONS ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
  - NO GROUND WATER WAS ENCOUNTERED TO THE LOWEST DEPTH DRILLED.
  - SOIL STRATIFICATIONS ARE ACQUAITE TO WITHIN TWO FEET VERTICALLY.
  - ELEVATIONS WERE REFERENCED FROM SOIL BORINGS/INFILTRATION TEST LOCATION MAP PREPARED BY H2M ARCHITECTS & ENGINEERS, DATED APRIL 2020.
  - SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CME) AUTOMATIC TRIP HAMMER.



**UNIFIED SOIL CLASSIFICATION**

SOIL GROUPS	TYPICAL NAMES AND SOIL SYMBOLS
GW	WELL GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURE
GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURE
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SM	SILTY SANDS, SAND - SILT MIXTURES
SC	CLAYEY SANDS, SAND - CLAY MIXTURES
ML	INORGANIC SILTS, VERY FINE SANDS, CLAYEY SILTS, SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

**ALLOWABLE FOUNDATION & LATERAL PRESSURES IN Y.S. BLDG. CODE TABLE 1804.2**

CLASS OF MATERIALS	ALLOWABLE BEARING PRESSURE (PSF)	LATERAL RESISTANCE (PSF)
1. CRISTALLINE BEDROCK	12,000	1,200
2. SEDIMENTARY & FOLIATED ROCK	4,000	400
3. SANDY GRAVEL & OR GRAVEL (GW & GP)	3,000	200
4. SAND SILTY SAND, CLAYEY SAND, SILTY SAND, & CLAYEY GRAVEL (SW, SP, SM, SC, GM, GC)	2,000	150
5. CLAY SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, & SANDY SILT (CL, ML, MH, & CH)	1,500 <sup>a</sup>	100

FOR GR: 1 POUND PER SQUARE FOOT = 0.0479 kPa, 1 POUND PER SQUARE FOOT = 0.157 kPa/m.  
 a. COEFFICIENT TO BE MULTIPLIED BY THE DEAD LOAD.  
 b. LATERAL SLIDING RESISTANCE VALUE TO BE MULTIPLIED BY THE CONTACT AREA, AS LIMITED BY SECTION 1804.3.  
 c. WHERE THE CODE ENFORCEMENT OFFICIAL DETERMINES THAT IN-PLACE SOILS WITH AN ALLOWABLE BEARING CAPACITY OF LESS THAN 1,500 PSF ARE LIKELY TO BE PRESENT AT THE SITE, THE ALLOWABLE BEARING CAPACITY SHALL BE DETERMINED BY A SOILS INVESTIGATION.  
 d. AN INCREASE OF ONE THIRD IS PERMITTED WHEN USING THE ALTERNATE LOAD COMBINATIONS IN SECTION 1805.3.2 THAT INCLUDE WIND OR EARTHQUAKE LOADS.

**COMPACTION RELATED TO SPOON BLOWS PER FOOT**

SOIL TYPE	SOFT	MEDIUM	HARD
LOOSE SAND	15 OR LESS	11 TO 29	30 OR MORE
MEDIUM SAND	16 TO 39	11 TO 29	30 OR MORE
DENSE SAND	40 OR MORE	30 OR MORE	30 OR MORE

**STANDARD PENETRATION TEST**

SIZES, INCHES	ROTARY CASING	EXTRA HEAVY CASING	SAMPLE SPOON
1/4"	2.5	2.0	2.0
3/8"	2.5	2.0	2.0
1/2"	2.5	2.0	2.0
3/4"	2.5	2.0	2.0
1"	2.5	2.0	2.0
1 1/4"	2.5	2.0	2.0
1 1/2"	2.5	2.0	2.0
1 3/4"	2.5	2.0	2.0
2"	2.5	2.0	2.0
2 1/4"	2.5	2.0	2.0
2 1/2"	2.5	2.0	2.0
2 3/4"	2.5	2.0	2.0
3"	2.5	2.0	2.0
3 1/4"	2.5	2.0	2.0
3 1/2"	2.5	2.0	2.0
3 3/4"	2.5	2.0	2.0
4"	2.5	2.0	2.0
4 1/4"	2.5	2.0	2.0
4 1/2"	2.5	2.0	2.0
4 3/4"	2.5	2.0	2.0
5"	2.5	2.0	2.0
5 1/4"	2.5	2.0	2.0
5 1/2"	2.5	2.0	2.0
5 3/4"	2.5	2.0	2.0
6"	2.5	2.0	2.0
6 1/4"	2.5	2.0	2.0
6 1/2"	2.5	2.0	2.0
6 3/4"	2.5	2.0	2.0
7"	2.5	2.0	2.0
7 1/4"	2.5	2.0	2.0
7 1/2"	2.5	2.0	2.0
7 3/4"	2.5	2.0	2.0
8"	2.5	2.0	2.0
8 1/4"	2.5	2.0	2.0
8 1/2"	2.5	2.0	2.0
8 3/4"	2.5	2.0	2.0
9"	2.5	2.0	2.0
9 1/4"	2.5	2.0	2.0
9 1/2"	2.5	2.0	2.0
9 3/4"	2.5	2.0	2.0
10"	2.5	2.0	2.0
10 1/4"	2.5	2.0	2.0
10 1/2"	2.5	2.0	2.0
10 3/4"	2.5	2.0	2.0
11"	2.5	2.0	2.0
11 1/4"	2.5	2.0	2.0
11 1/2"	2.5	2.0	2.0
11 3/4"	2.5	2.0	2.0
12"	2.5	2.0	2.0
12 1/4"	2.5	2.0	2.0
12 1/2"	2.5	2.0	2.0
12 3/4"	2.5	2.0	2.0
13"	2.5	2.0	2.0
13 1/4"	2.5	2.0	2.0
13 1/2"	2.5	2.0	2.0
13 3/4"	2.5	2.0	2.0
14"	2.5	2.0	2.0
14 1/4"	2.5	2.0	2.0
14 1/2"	2.5	2.0	2.0
14 3/4"	2.5	2.0	2.0
15"	2.5	2.0	2.0
15 1/4"	2.5	2.0	2.0
15 1/2"	2.5	2.0	2.0
15 3/4"	2.5	2.0	2.0
16"	2.5	2.0	2.0
16 1/4"	2.5	2.0	2.0
16 1/2"	2.5	2.0	2.0
16 3/4"	2.5	2.0	2.0
17"	2.5	2.0	2.0
17 1/4"	2.5	2.0	2.0
17 1/2"	2.5	2.0	2.0
17 3/4"	2.5	2.0	2.0
18"	2.5	2.0	2.0
18 1/4"	2.5	2.0	2.0
18 1/2"	2.5	2.0	2.0
18 3/4"	2.5	2.0	2.0
19"	2.5	2.0	2.0
19 1/4"	2.5	2.0	2.0
19 1/2"	2.5	2.0	2.0
19 3/4"	2.5	2.0	2.0
20"	2.5	2.0	2.0
20 1/4"	2.5	2.0	2.0
20 1/2"	2.5	2.0	2.0
20 3/4"	2.5	2.0	2.0
21"	2.5	2.0	2.0
21 1/4"	2.5	2.0	2.0
21 1/2"	2.5	2.0	2.0
21 3/4"	2.5	2.0	2.0
22			