



ROCKFORD PUBLIC SCHOOLS

SCHOOL A ZONE 2

ARMER DRIVE, CHERRY VALLEY, IL

VOLUME 1

005005.00
ISSUED FOR BID
JANUARY 04, 2017

CANNONDESIGN

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00 GENERAL	
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S0505	SECTIONS AND DETAILS
S0506	SECTIONS AND DETAILS



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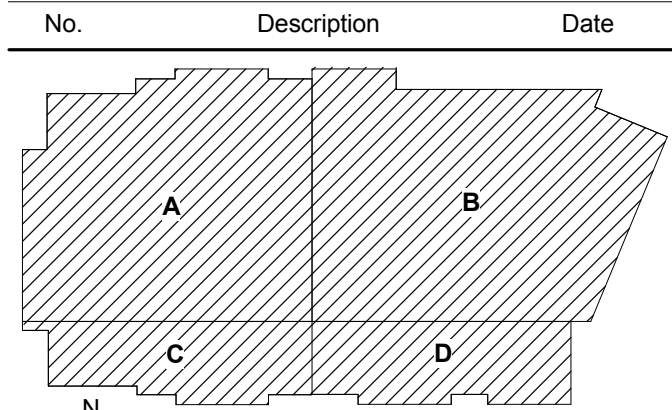
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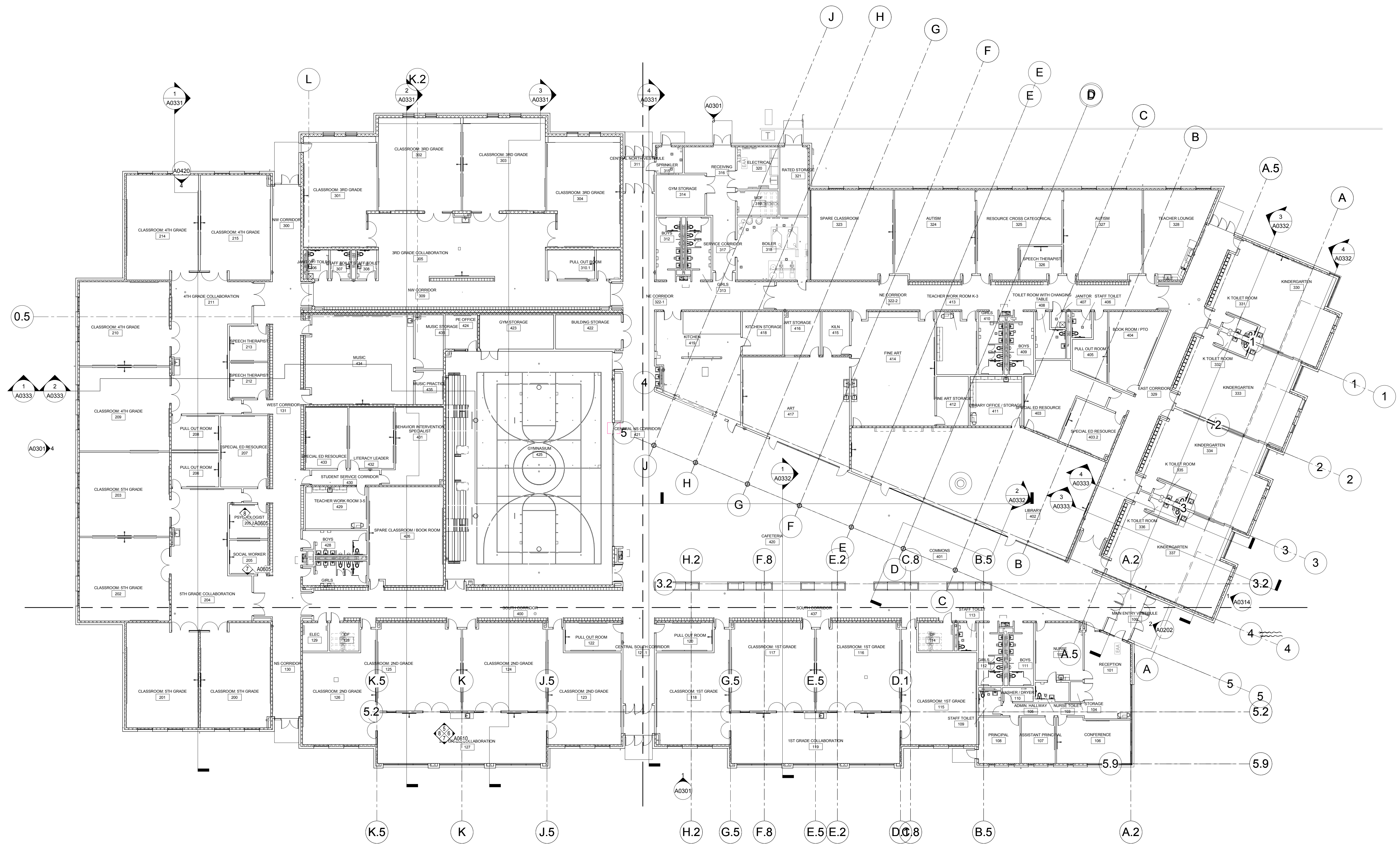
KEY PLAN

Drawing Title:

DRAWING INDEX VOLUME
1

Project No.: 005005.00 Checked by: Checker

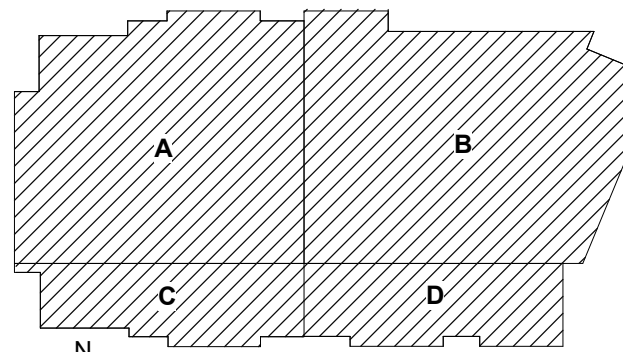
G01



1 LEVEL 01 REFERENCE PLAN
1/16" = 1'-0"

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No.	Description	Date
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KEY PLAN
Drawing Title:

LEVEL 01 REFERENCE PLAN

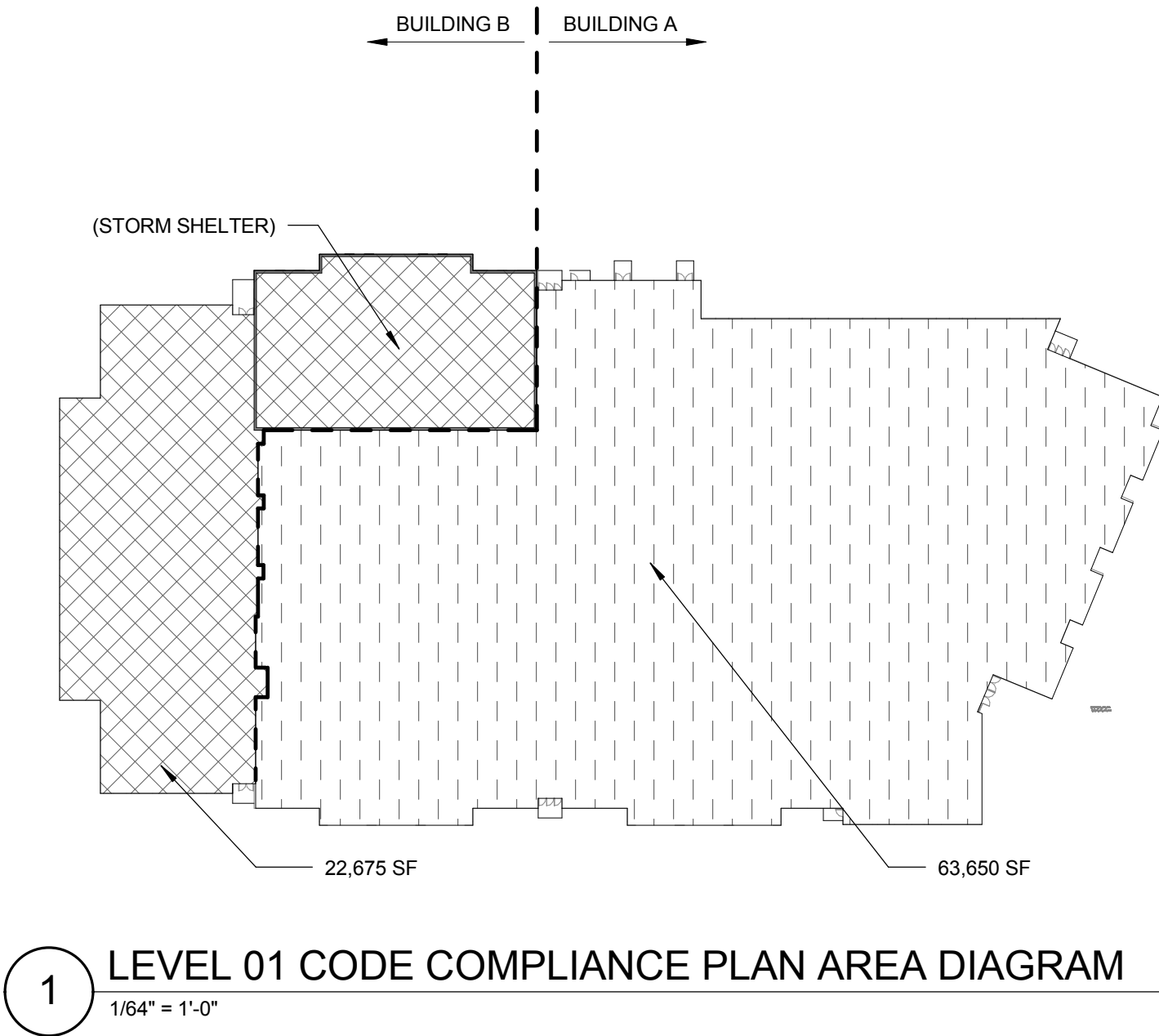
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G0101

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GENERAL NOTES

1. THE FLOOR PLAN BACKGROUND FOR NEW CONSTRUCTION IS SHOWN IN GRAY HALF-TONE. DESIGNATIONS FOR FIRE RATED PARTITIONS, SMOKE PARTITIONS AND OTHER CODE COMPLIANCE RELATED INFORMATION ARE SHOWN FULL TONE.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTS, EMERGENCY LIGHTS, AND FIRE ALARM SYSTEM.
3. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF SPRINKLERS AND FIRE PUMP.
4. REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE COUNTS.
5. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL LOADS.



PLUMBING FIXTURE COUNT

STORM SHELTER:
TOTAL POPULATION: 793
STUDENTS: 688

PLUMBING FIXTURE REQUIREMENT PER ILLINOIS PLUMBING CODE:
SCHOOL POPULATION BASED ON ACTUAL STUDENT PROJECTED ENROLLMENT
ASSEMBLY POPULATION BASED ON EGRESS CAPACITY FOR ASSEMBLY SPACES

SCHOOL REQUIREMENTS:
WATER CLOSETS
MALE 1: 1-20, 2: 21-50, OVER 50, ADD 1 FIXTURE PER EACH ADDITIONAL 50 PERSONS
FEMALE 1: 1-20, 2: 21-50, OVER 50, ADD 1 FIXTURE PER EACH ADDITIONAL 50 PERSONS

LAVATORIES
MALE 1: 1-25, 2: 26-50, OVER 50, ADD 1 FIXTURE PER EACH ADDITIONAL 50 PERSONS
FEMALE 1: 1-25, 2: 26-50, OVER 50, ADD 1 FIXTURE PER EACH ADDITIONAL 50 PERSONS

DRINKING FOUNTAINS
1 PER 75 PERSONS

OFFICE / STAFF
WATER CLOSETS:
MALE 1: 1-15, 2: 16-35, 3: 36-55, 4: 56-80
FEMALE 1: 1-15, 2: 16-35, 3: 36-55, 4: 56-80

LAVATORIES
MALE 1: 1-15, 2: 16-35, 3: 36-55, 4: 56-80
FEMALE 1: 1-15, 2: 16-35, 3: 36-55, 4: 56-80

ASSEMBLY REQUIREMENTS (60 SF/PERSON):
WATER CLOSETS
MALE 1: 1-100, 2: 101-200, 3: 201-400, 4: 401-800
FEMALE 1: 1-100, 2: 101-200, 3: 201-400, 4: 401-800

LAVATORIES
MALE 1: 1-200, 2: 201-400, 3: 401-750
FEMALE 1: 1-200, 2: 201-400, 3: 401-750

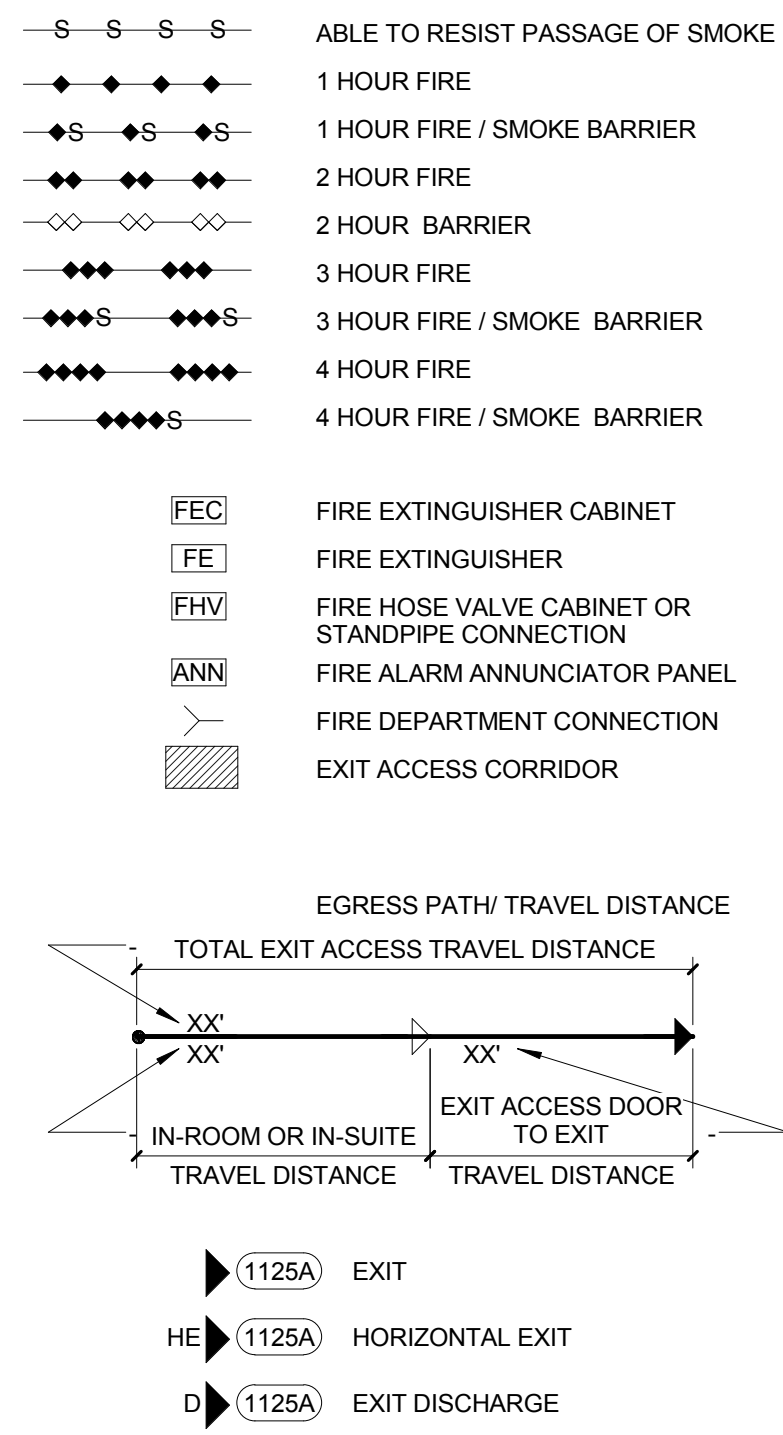
DRINKING FOUNTAINS
1 PER 100 PERSONS

PROTOTYPE SCHOOL REQUIREMENTS:
SCHOOL
TOTAL STUDENT POPULATION: 688
344 MALE = 9 WCS, 9 LAVS
344 FEMALE = 9 WCS, 9 LAVS
10 DRINKING FOUNTAINS

ASSEMBLY (GYMNASIUM/ DINING)
9,775 SF, ASSUME 60 SF/ PERSON = 196
98 MALE = 1 WCS, 1 URINALS, 1 LAV
98 FEMALE = 2 WCS, 1 LAV
1 DRINKING FOUNTAIN

STAFF
TOTAL STAFF: 75
4 UNSEX STAFF TOILET ROOMS WITH 1 WATER CLOSET, 1 LAVATORY

LEGEND



APPLICABLE CODES, STANDARDS, AND ORDINANCES:

PER ILLINOIS ADMINISTRATIVE CODE 180:
2009 INTERNATIONAL BUILDING CODE (WITH AMENDMENTS)
2009 INTERNATIONAL MECHANICAL CODE (WITH AMENDMENTS)
2004 ILLINOIS PLUMBING CODE
2009 INTERNATIONAL FUEL GAS CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2009 INTERNATIONAL FIRE CODE
ILLINOIS ACCESSIBILITY CODE / 2010 ADAAG

EGRESS LEGEND

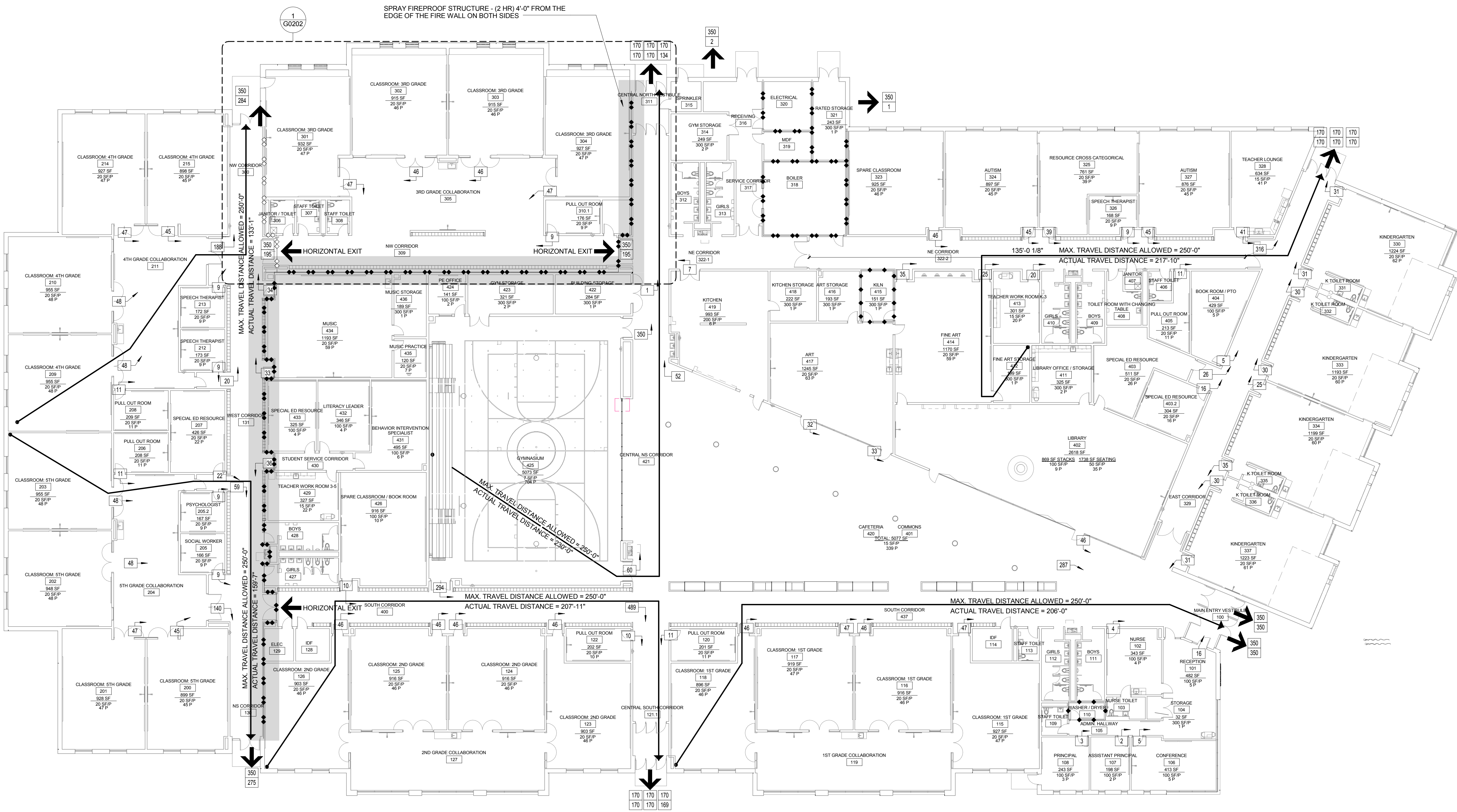
PART 180 / IBC 2009
DOOR CAPACITY = 2 INCH/ PERSON
36" DOOR (34" CLEAR) = 170 OCCUPANTS
72" OPENING (70" CLEAR) = 350 OCCUPANTS
0-49 OCC. LOAD = 1 DOOR
50-500 OCC. LOAD = 2 DOORS
3 EXITS REQUIRED FOR OCC. LOAD 501-1000
MAXIMUM TRAVEL DISTANCE = 250'-0" (SPRINKLERED)
COMMON PATH OF TRAVEL = 75'-0"
DEAD END CORRIDOR = 50'-0"

GENERAL INFORMATION:

OCCUPANCY CLASSIFICATION: EDUCATION
CONSTRUCTION CLASSIFICATION: IBC 2009 - TYPE 2B
CONSTRUCTION TYPE:
AUTOMATIC SPRINKLER SYSTEM: YES
ALLOWABLE BUILDING AREA (ASSUMES 20' PUBLIC WAY AROUND ENTIRE PERIMETER OF BUILDING)
AUTOMATIC SPRINKLER SYSTEM INCREASE BY ADDITIONAL 300 PERCENT IS = 3 FOR BUILDING WITH NO MORE THAN ONE STORY ABOVE GRADE PLANE
If = [F] / P - 0.25] W / 30
If = [14,000 / (14,000 - 0.25)] 20 / 30
If = [0.75] 20 / 30
If = 15 / 30
If = 0.5
Aa = [A1 + [A1 x If] + [A1 x Is]]
Aa = [14,500 + [14,500 x 0.5] + [14,500 x 3]
Aa = 14,500 + 7,250 + 43,500
Aa = 65,250 SF
ALLOWABLE: 65,250 SF
ACTUAL: BUILDING A: 63,650 SF
BUILDING B: 22,675 SF
ALLOWABLE BUILDING HEIGHT (AT ADDITION):
ALLOWABLE: 55'-0", 2 STORIES
ACTUAL: 15'-0", 1 STORY
ALLOWABLE BUILDING HEIGHT (AT ADDITION):
55'-0", 2 STORIES AND 20'-0" AND 1 STORY INCREASE FOR AUTOMATIC SYSTEM
ALLOWABLE: 75'-0", 3 STORIES
ACTUAL: 27'-8", 1 STORY (AT GYMNASIUM)

FIRE RESISTANCE RATINGS

ITEM	FIRE RESISTANCE RATING
STRUCTURAL FRAME	0 HRS
SUPPORTING ROOF ONLY	0 HRS
BEARING WALLS : EXTERIOR INTERIOR INTERIOR SUPPORTING ROOF ONLY	0 HRS 0 HRS 0 HRS
NON-BEARING WALLS AND PARTITIONS EXTERIOR SEPARATION >30'	0 HRS 0 HRS
FLOOR CONSTRUCTION	NA
ROOF CONSTRUCTION	0 HRS
MISCELLANEOUS RATINGS:	
IBC 2009:	
SHAFT ENCLOSURES 4 OR MORE STORIES <4 STORIES	2 HRS 1 HR
HALLWAYS	0 HRS
VERTICAL EXIT ENCLOSURES 4 OR MORE STORIES <4 STORIES	2 HRS 1 HR
SMOKE BARRIERS	NA
SOILED LINEN ROOMS	NA
FIRE WALL (BUILDING SEPARATION) (TABLE 706.4)	2 HRS



3 LEVEL 01 CODE COMPLIANCE PLAN
1/16" = 1'-0"



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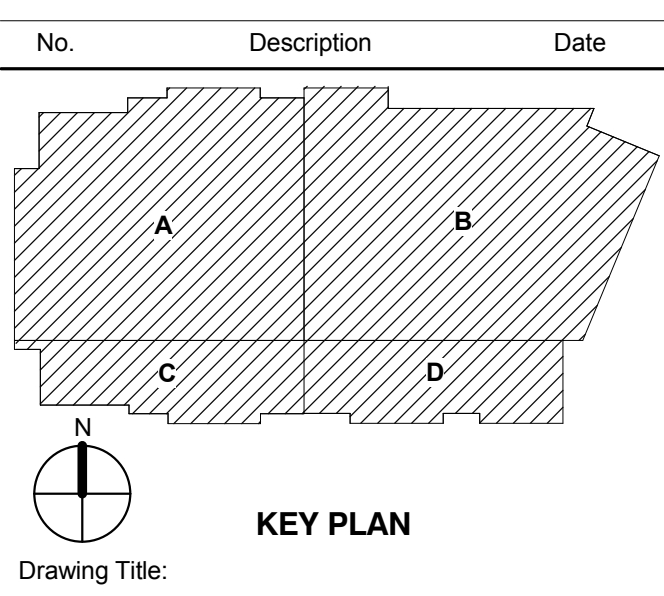
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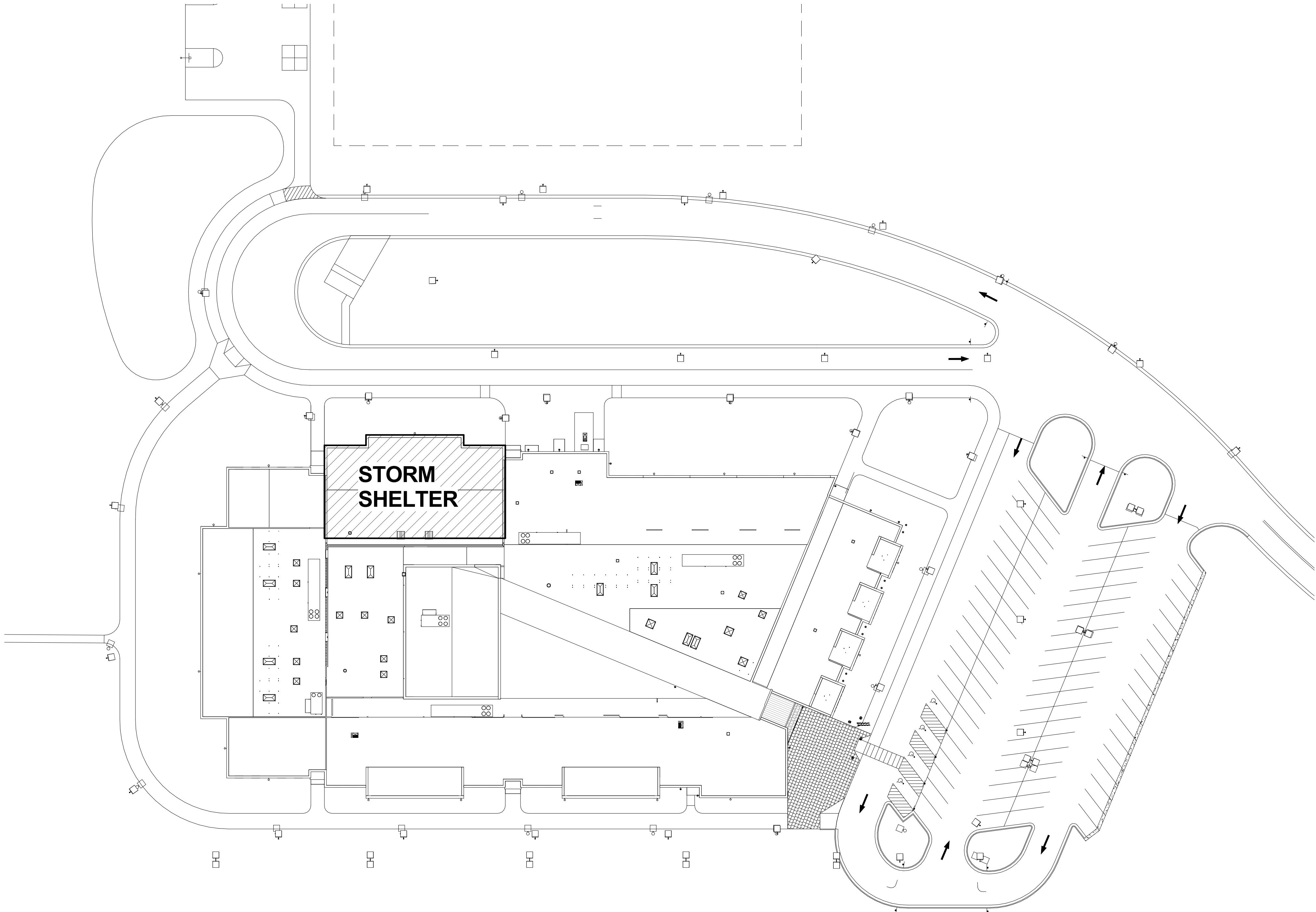
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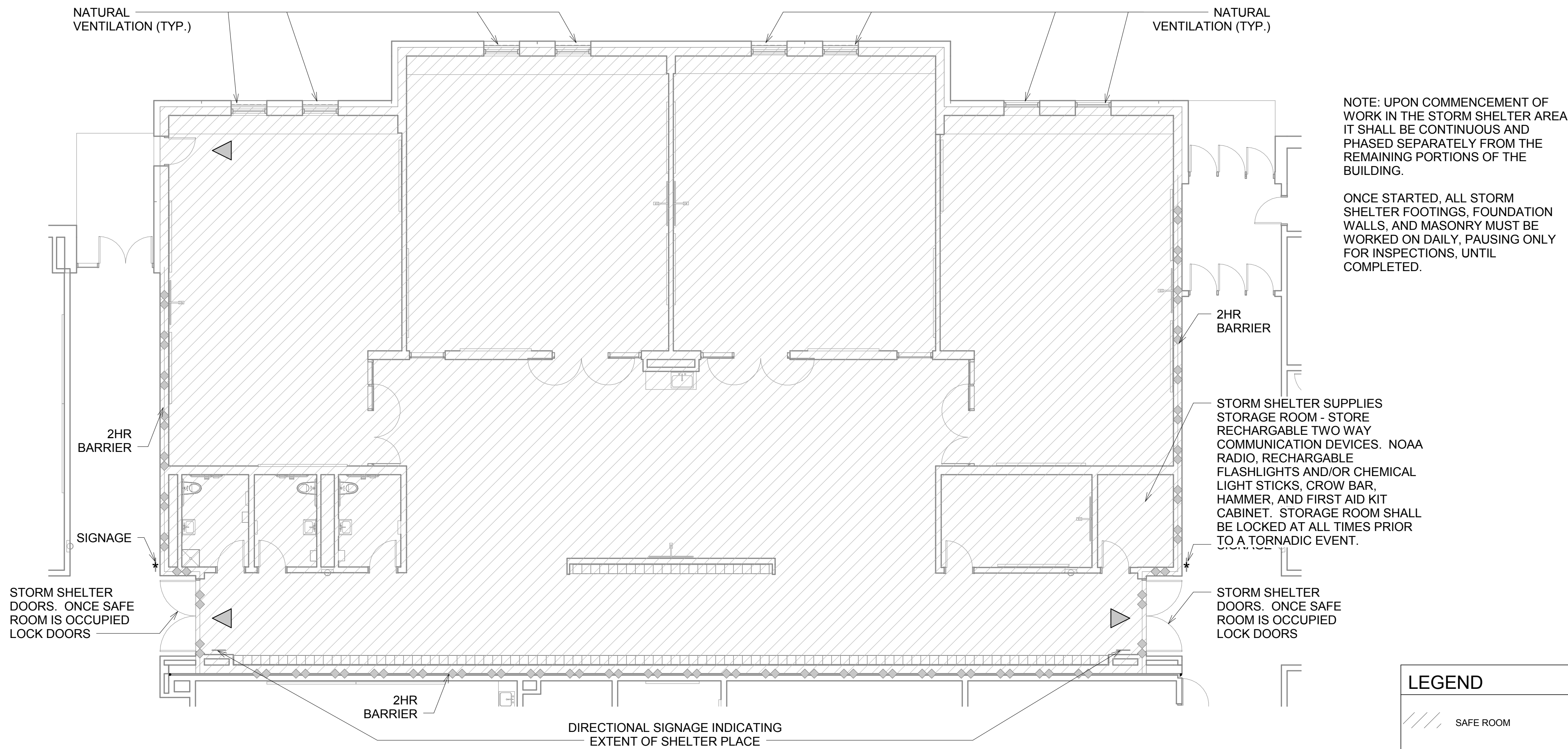
LEVEL 01 CODE COMPLIANCE

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G0201



2 TORNADO SAFE ROOM SITE PLAN - CHERRY VALLEY
1" = 40'-0"



1 LEVEL 01 CODE COMPLIANCE PLAN - STORM SHELTER
1/8" = 1'-0"

PROJECT INFORMATION

TYPE OF CONSTRUCTION: NEW CONSTRUCTION
DESCRIPTION: SCHOOL TORNADO STORM SHELTER
LOCATION: ILLINOIS
COUNTY: WINNEBAGO
CITY: ROCKFORD
OWNER: ROCKFORD PUBLIC SCHOOLS
USE: EDUCATION, ELEMENTARY SCHOOL

CODE COMPLIANCE

IBC, 2009
ICC-500, 2014
LOCAL PERMIT OBTAINED

STORM SHELTER INFORMATION

TYPE: SCHOOL, MULT-USE (CLASS-ROOMS)
NUMBER OF EGRESS POINTS: 3
DURATION: 2 HOURS
GROSS AREA: 7,266 SF
NON-OCCUPABLE AREA: 318 SF
USABLE AREA: 6,938 SF
MAXIMUM ALLOWABLE OCCUPANCY: 804
CLASSROOMS = (3,698 SF X .515 SF/OCCUPANT) = 369
PULLOUT = (175 SF X .515 SF/OCCUPANT) = 17
COLLABORATION - SINK = (1,468 SF X .515 SF/OCCUPANT) = 249
CORRIDOR - LOCKERS = (995.83 SF X .8515 SF/OCCUPANT) = 169
BEDRIDDEN: 0
ACTUAL OCCUPANCY PROPOSED: 793 (STUDENT POPULATION + STAFF)
WHEELCHAIR REQUIREMENTS = 1 PER 200 OCCUPANTS
TOTAL REQUIRED AREA MINIMUM= (789 PERSONS X 5 SF/OCCUPANT) + (4 WHEELCHAIR x 10 SF) = 3,985 SF
ROOF LIVE LOAD: 100 PSF

WIND HAZARD

DESIGN METHODOLOGY:
ICC-500, ASCE 7-10 DIRECTIONAL PROCEDURE
STORM SHELTER DESIGN WIND ZONE: IV
STORM SHELTER DESIGN WIND SPEED: 250 MPH (3-SEC GUSTS)
DESIGN EXPOSURE CATEGORY: C
ENCLOSURE CLASSIFICATION: PARTIALLY ENCLOSED
DIRECTIONALITY FACTOR (Kd): 1.0
IMPORTANCE FACTOR (I): 1.0
INTERNAL PRESSURE COEFFICIENT (GCp): 0.55
TOPOGRAPHIC EFFECTS (Kzt): 1.0
DEBRIS IMPACT CRITERIA:
MISSILE SIZE: 15 LB 2X4
HORIZONTAL MISSILE SPEED: 100 MPH
VERTICAL MISSILE SPEED: 67 MPH

FLOOD HAZARD CHERRY VALLEY

SPHA: N/A
FIRM PANEL NUMBER: 17201C0401D
FLOOD ZONE: X (NO ELEVATION AVAILABLE FOR AN AREA LABELED "ZONE X")
BASE FLOOD ELEVATION (1% CHANCE OF ANNUAL EXCEEDANCE): N/A
0.2% CHANCE OF ANNUAL EXCEEDANCE ELEVATION: N/A
LOWEST FLOOR FFE: 793.8
LOWEST FLOOR FFE (M&E): 793.8
DATUM: NAVD88

OTHER HAZARDS

NEHRP COMPLIANCE: N/A
OTHER: STORM SHELTER IS DESIGNED TO WITHSTAND DAMAGE FROM COLLAPSE OF ADJACENT 2 STORY GYMNASIUM STRUCTURE

WALLS/OPENINGS/DOOR ASSEMBLIES/WINDOW & WINDOW ASSEMBLIES

WALL CONSTRUCTION: FULLY REINFORCED AND GROUTED CMU
ROOF CONSTRUCTION: REINFORCED CONCRETE ON COMPOSITE METAL DECK
SYSTEM TEST METHOD FOR TORNADO:
ICC-500, SECTION 804, FEMA P-361, SECOND EDITION, APPENDIX E
RESULTS: PASS
GLAZING TEST METHOD:
ICC-500, SECTION 804
RESULTS: PASS
OPENING PROTECTION: DOORS
TEST METHOD: ICC-500, SECTION 306 & 804
RESULTS: PASS

SOIL COVERAGE: N/A (STORM SHELTER COMPLETELY ABOVE GRADE)

AUTHORITY HAVING JURISDICTION: CITY MUNICIPALITY AND ILLINOIS STATE FIRE MARSHALL

MECHANICAL/VENTILATION/ELECTRICAL

VENTILATION METHOD: NATURAL

ICC 2014 STORM SHELTER NATURAL VENTILATION (702.1.1)				
CODE REQUIRED				
#	SQ.IN.	TOTAL	LOW	HIGH
PEOPLE / PERSON	(SQ IN)	(SQ IN)	(SQ IN)	(SQ IN)
793	6	4758	1190	3569
DESIGN		TOTAL	LOW (1)	HIGH (2)
CHASE FREE AREA (3)		7519.8	3824.6	3695
(1) LOUVERS: TOTAL OF EIGHT (8) 48x20 WITH A 62% FREE AREA				
ACTUAL FREE AREA FOR EACH IS 3.32 SQ.FT. (478.08 SQ. IN)				
(2) RELIEF HOODS: TWO (2) 42x44 HOODS EACH WITH				
12.83 SQ.FT. (1847.52 SQ. IN) FREE AREA				
(3) CHASE FREE AREA: TOTAL OF EIGHT (8) 22x10 CHASE PATHS				
22x10 = 220, (8x220) = 1760				

LIGHTING: EMERGENCY LIGHTING BATTERY POWERED
OPENING PROTECTION: FULLY REINFORCED CMU ALCOVES, ENGINEERED STEEL DUCT OPENINGS AND ENGINEERED STEEL VENTILATION ROOF OPENINGS
METHOD OF PROTECTION EQUIPMENT:
WIND FORCES: ICC-500
DEBRIS IMPACT: ICC-500
FLOODING: N/A
SEISMIC: N/A
MANMADE: N/A

ADA REQUIREMENTS

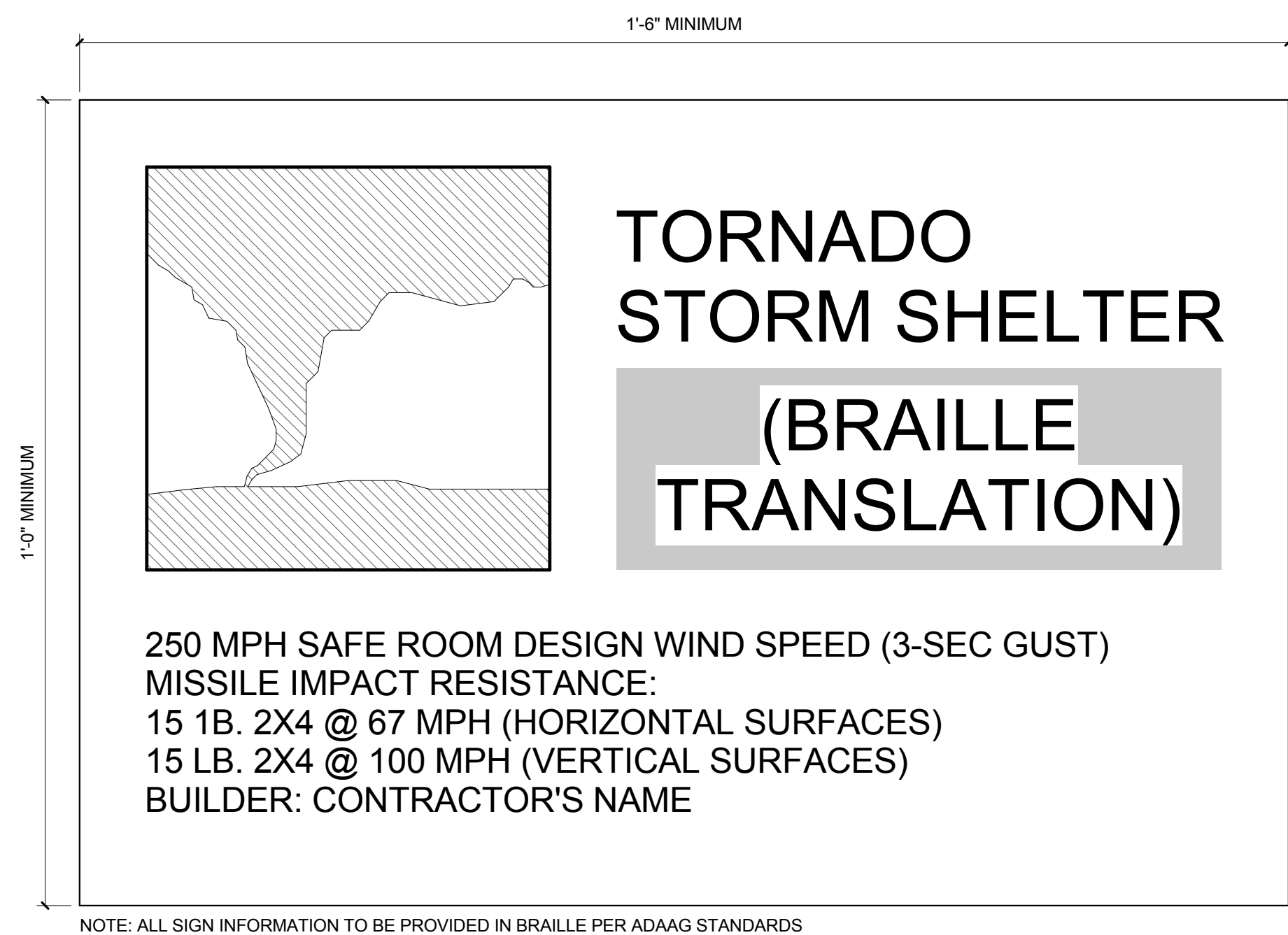
STORM SHELTER IS ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES LOCATED ON GROUND LEVEL

TOILETS

THREE (3) FLUSH TOILETS ARE PROVIDED WITHIN THE STORM SHELTER (ADA ACCESSIBLE).

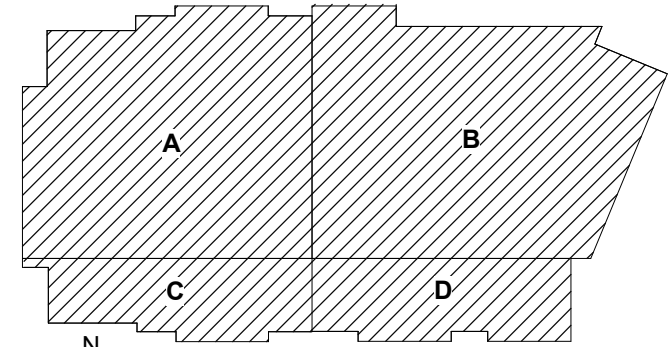
SIGNAGE

STORM SHELTER DIRECTIONAL SIGN: INSIDE EACH ROOM IN THE BUILDING, STORM SHELTER SIGN AT EACH ENTRY DOOR TO THE STORM SHELTER, TOTAL OF (2)

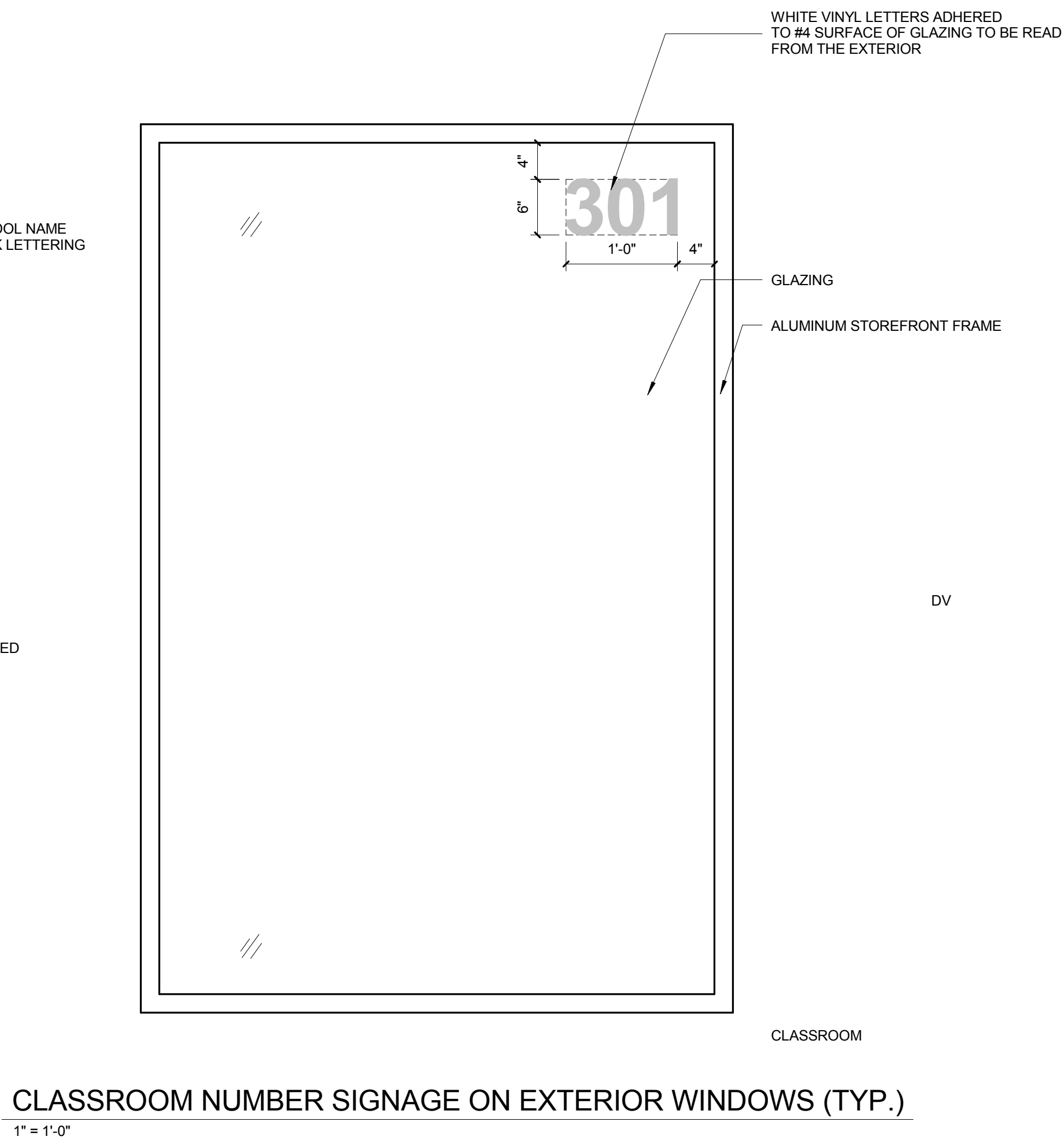
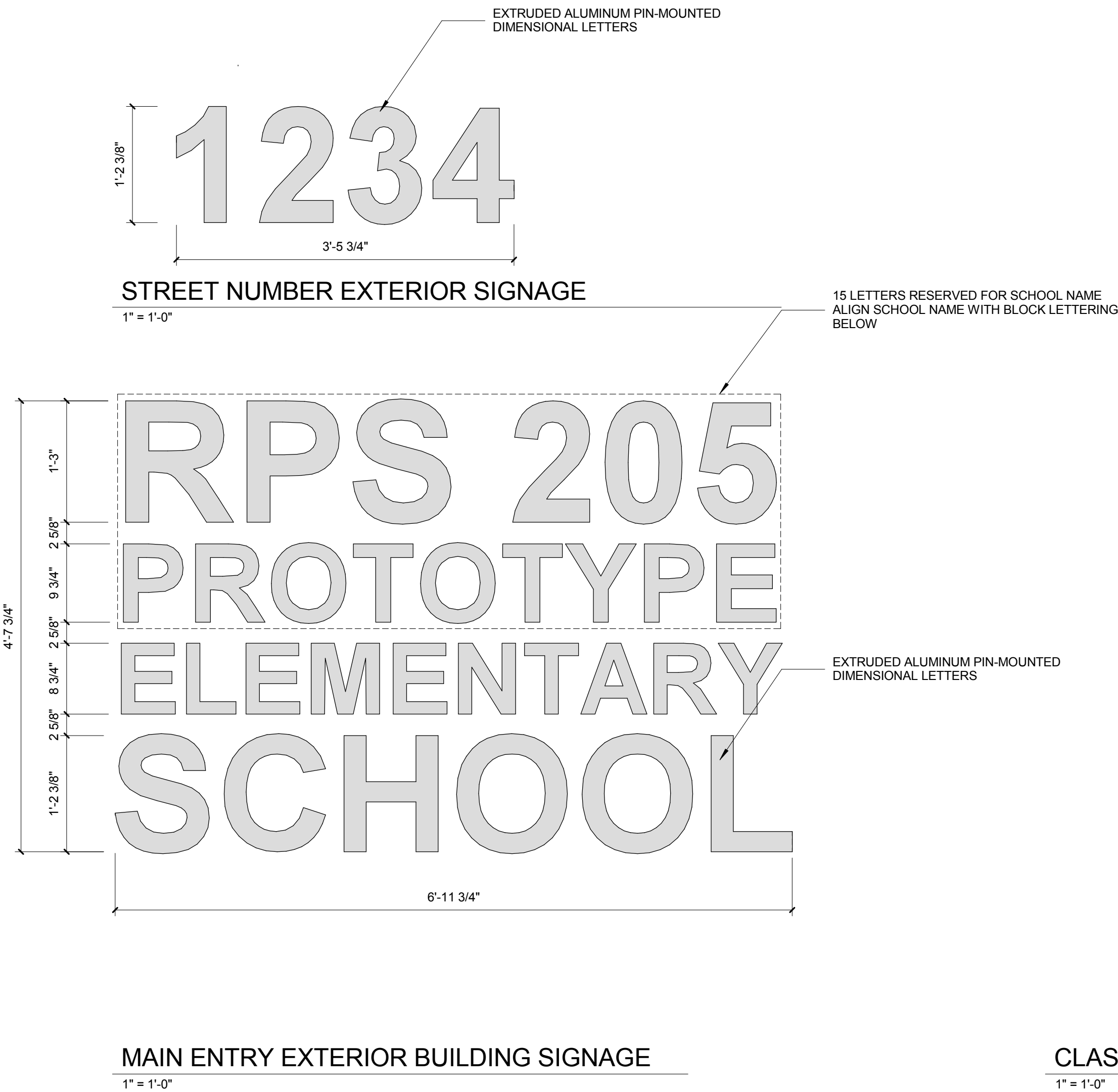
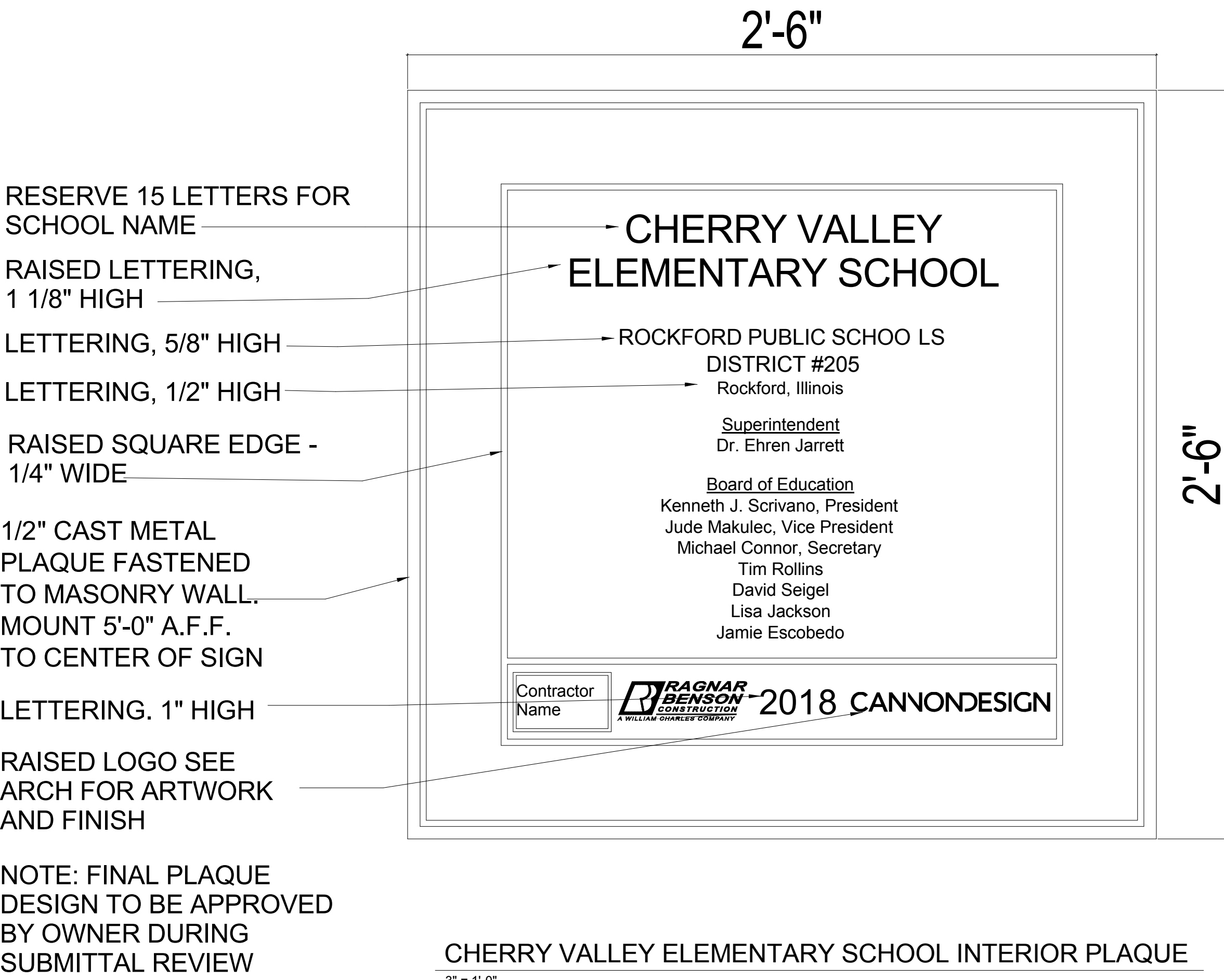


250 MPH SAFE ROOM DESIGN WIND SPEED (3-SEC GUST)
MISSILE IMPACT RESISTANCE:
15 LB. 2X4 @ 67 MPH (HORIZONTAL SURFACES)
15 LB. 2X4 @ 100 MPH (VERTICAL SURFACES)
BUILDER: CONTRACTOR'S NAME

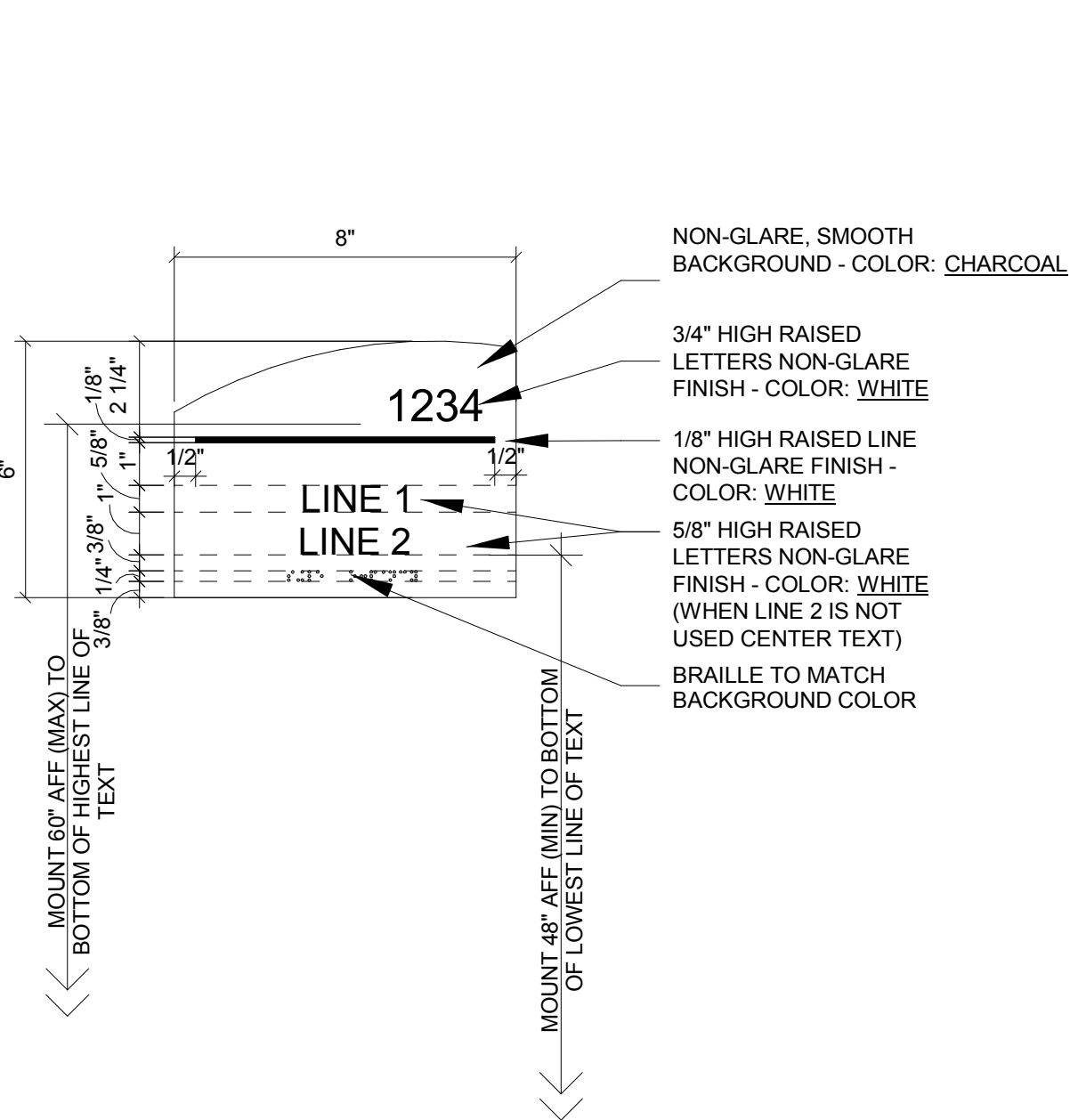
4 TORNADO SAFE ROOM SIGNAGE
6" = 1'-0"



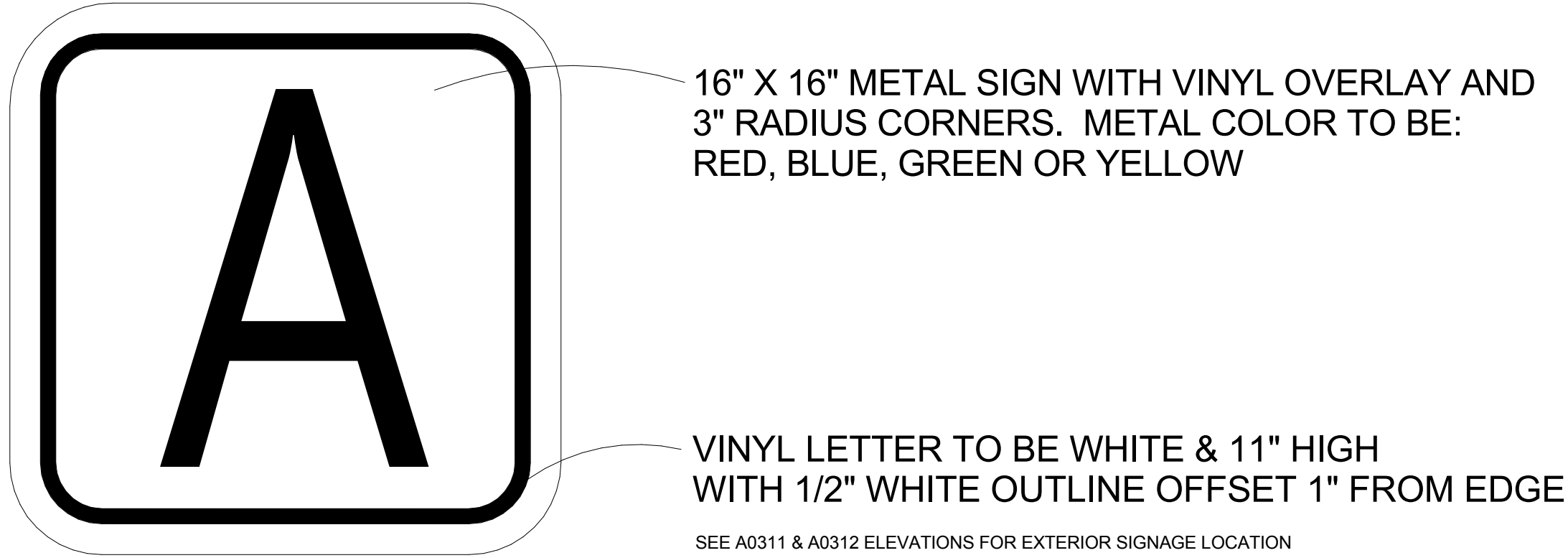
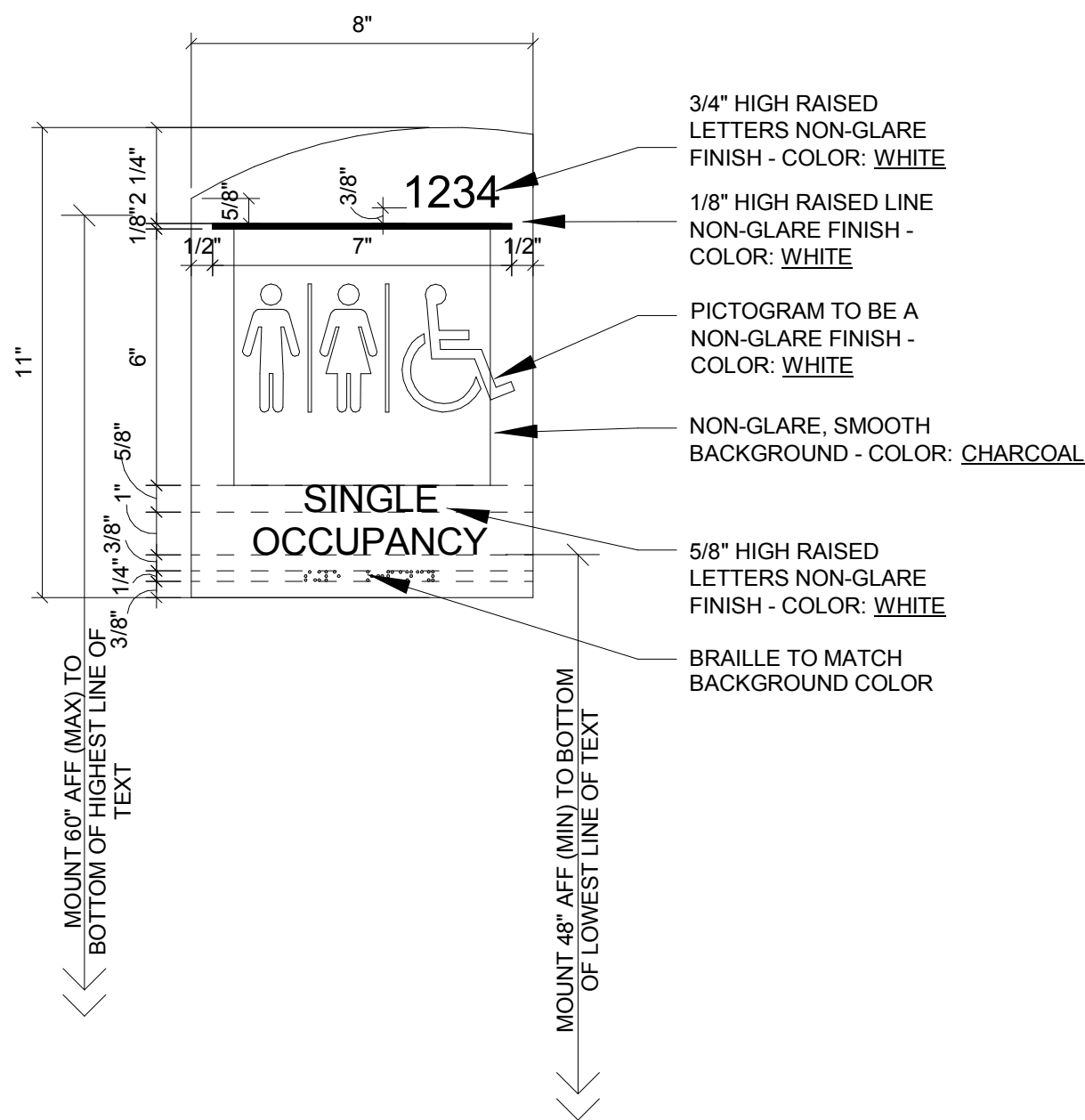
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DETAIL FOR SIGNS THAT ARE 8" X 6"



DETAIL FOR SIGNS THAT ARE 8" X 11"



ROCKFORD PUBLIC SCHOOLS EXTERIOR SIGNAGE DETAIL

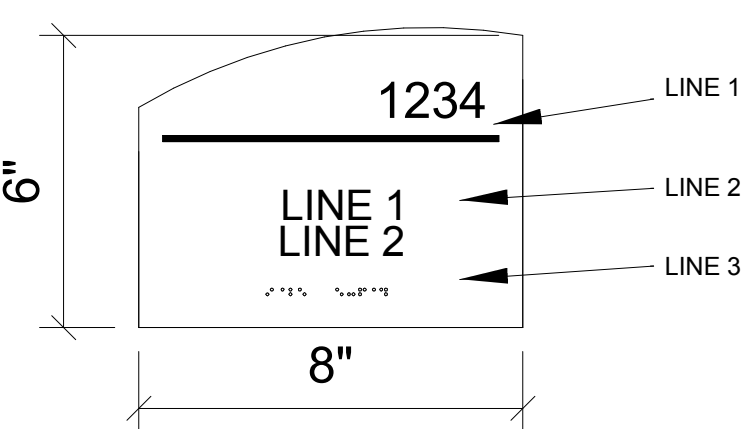
3" = 1'-0"

SIGNAGE SCHEDULE

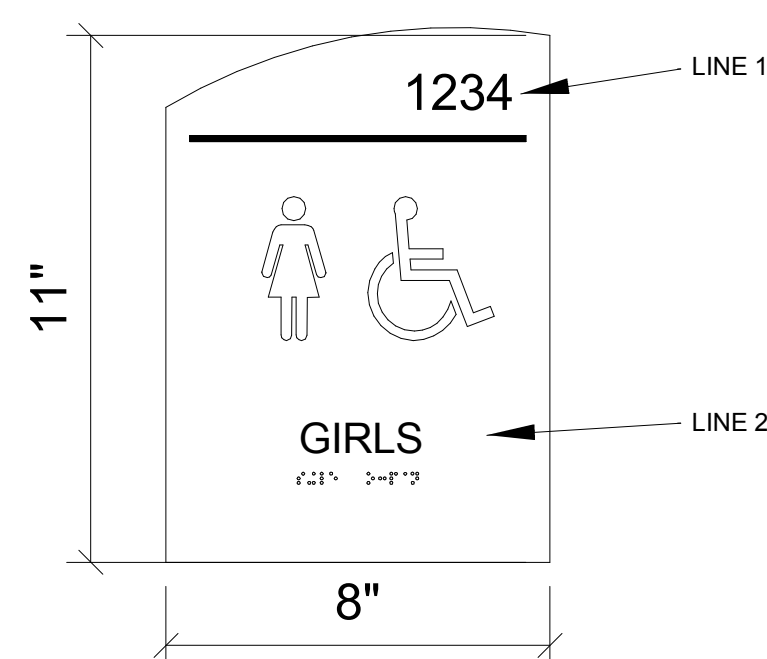
ROOM TYPE	SIGN TYPE
CLASSROOMS PULLOUT ROOMS STUDENT SERVICES FACILITY SPACES OFFICES PTO NURSE CONFERENCE ROOMS MUSIC ART/FINE ARTS BOOK ROOM	5
SERVICE ROOMS RECEIVING ROOMS STORAGE ROOMS JANITOR CLOSETS KILN KITCHEN CAFETERIA GYMNASIUM LIBRARY/MEDIA CENTER CORRIDORS ENTRANCES	1
SINGLE-USER TOILET ROOMS	4
MULTI-USER TOILET ROOMS	2,3

NOTE: CONTRACTOR TO PROVIDE A FULL SIGNAGE SCHEDULE DURING SUBMITTAL REVIEW

TYPE 1

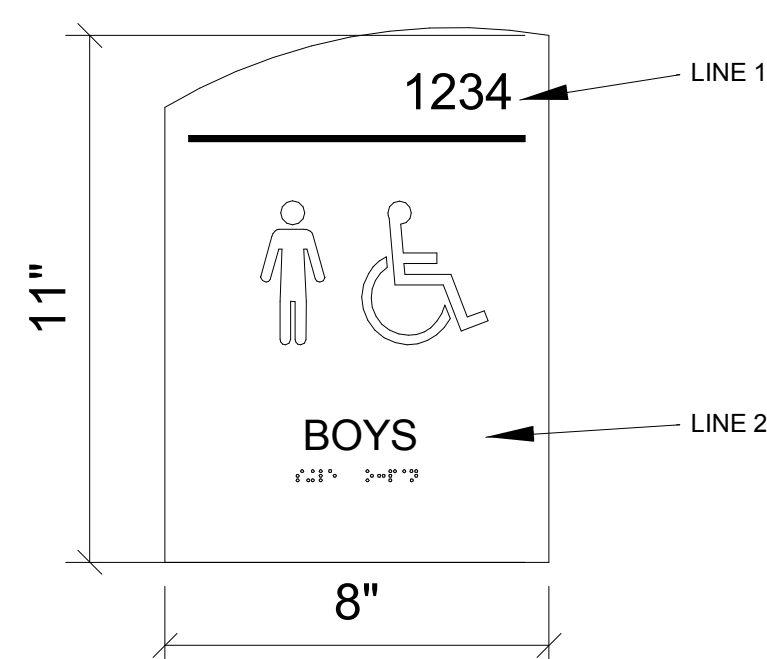


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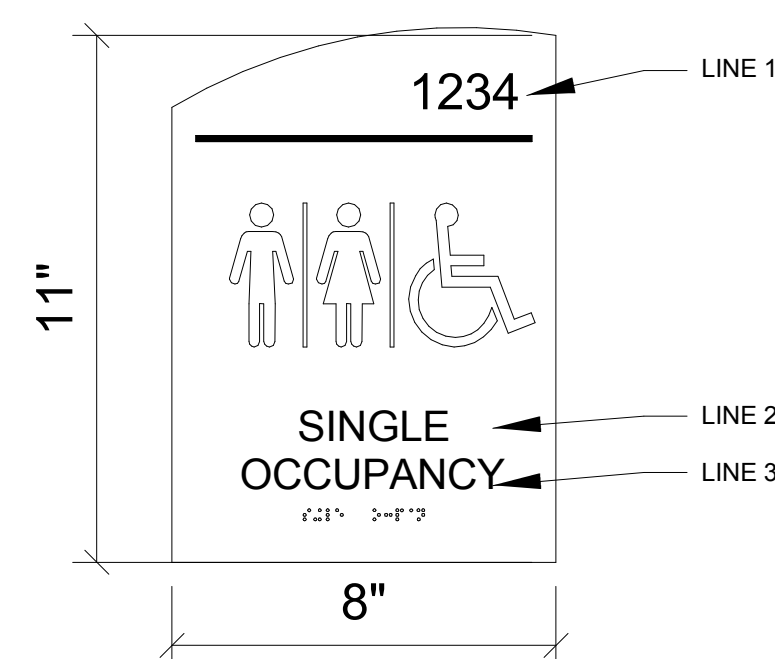
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TYPE 3A (WITH ADA PICTURE)



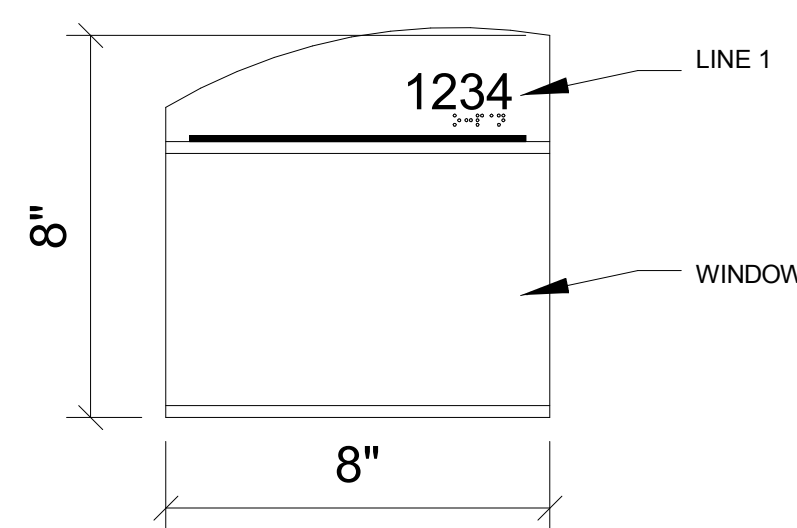
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TYPE 4A (WITH ADA PICTURE)



TYPE 4B (WITHOUT ADA PICTURE)

TYPE 5



CONTRACTOR TO COORDINATE SIGN INSTALLATION WITH OWNER AND ARCHITECT IN FIELD.

ROCKFORD SCHOOL DISTRICT SIGNAGE STANDARDS

3" = 1'-0"



ROCKFORD PUBLIC SCHOOLS

SCHOOL A ZONE 2

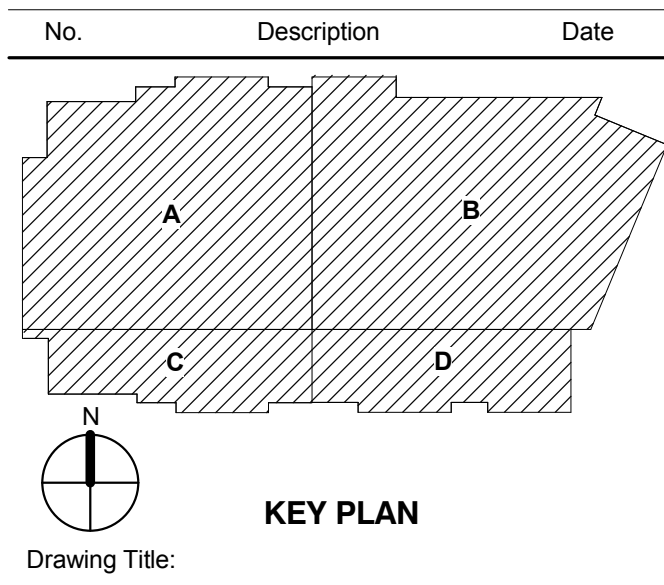
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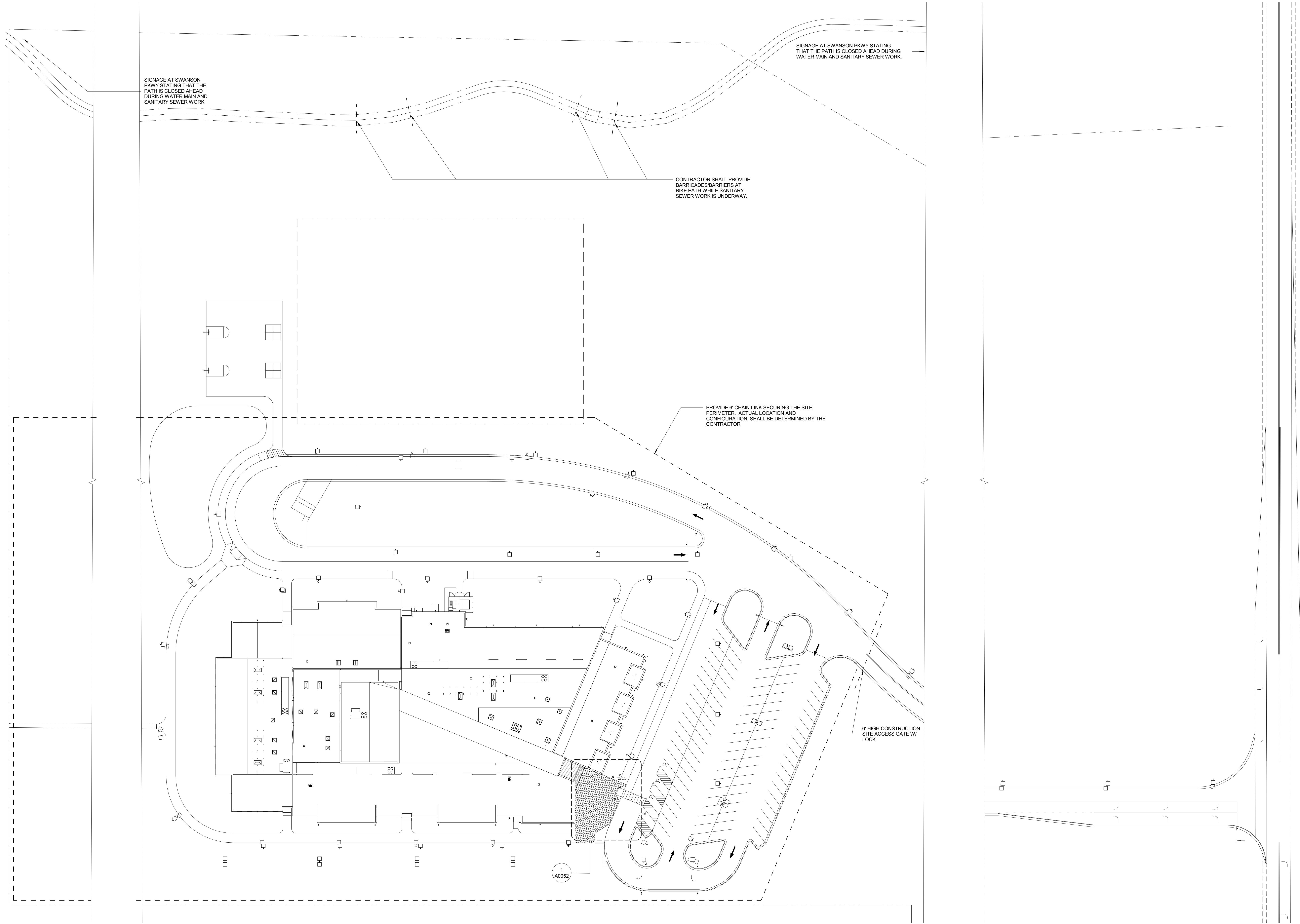


DISTRICT SIGNAGE STANDARDS

Project No.: 005005.00 Checked by: Checker

G0203

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ITS OWN SITE SECURITY AND LOGISTIC PLAN THAT LOCATES TRAILER, PARKING, MATERIAL AND EQUIPMENT STAGING LOCATIONS, TEMPORARY ROADS AND STAGING PADS.

1 ARCHITECTURAL SITE LOGISTICS PLAN - CHERRY VALLEY
1" = 40'-0"



ROCKFORD PUBLIC SCHOOLS

SCHOOL A ZONE 2

CANNON DESIGN

225 North Michigan Avenue, Suite 1100
Chicago, Illinois 60601
T: 312.332.9600
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PROFESSIONAL DESIGN FIRM
LICENSE NUMBER 184.005683

S2O CONSULTANTS, INC.
Kitchen Consultants
13 Winding Branch Rd.
Hawthorn Woods IL 60047
224-717-1999

ARC DESIGN RESOURCES INC.
Civil Consultants
5291 Zenith Parkway
Loves Park IL 61111
(815) 484-4300

1 ISSUED FOR BID 01/04/2017

No.	Description	Date
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C		
D		



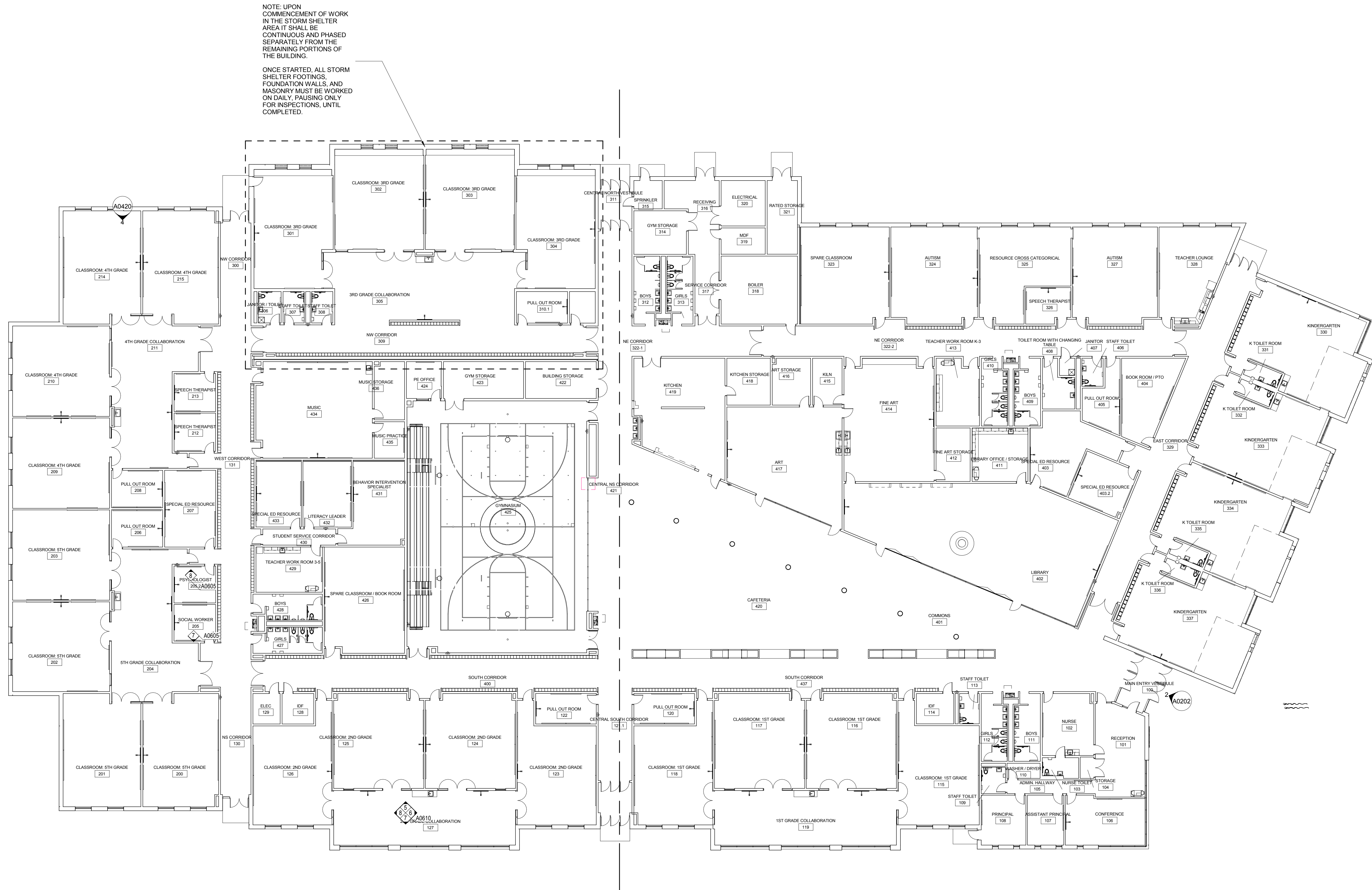
KEY PLAN

SITE LOGISTICS PLAN

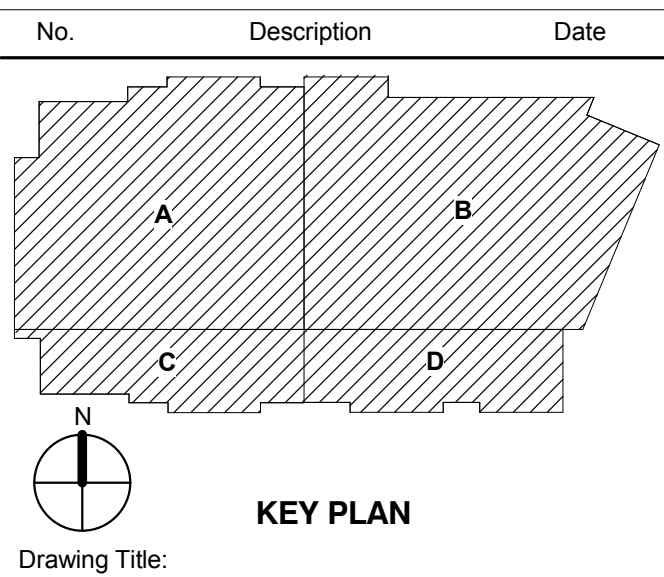
Project No.: 005005.00 Checked by: Checker

G0301

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1 BUILDING LOGISTICS PLAN
1/16" = 1'-0"



WATER UTILITY NOTES

- Water mains and services shall be constructed in accordance with the following:
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
 - All applicable state and local plumbing codes.
 - Additional details and requirements provided in the contract documents, including this plan set.
 - Village of Cherry Valley watermain codes.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- Contact all public and private utility companies 48 hours prior to any excavation. Cost of replacement or repair of existing utilities damaged as a result of the contractor's operation shall be the contractor's responsibility.
- All water main and service pipe greater than 2" in diameter shall be Ductile Iron Pipe in accordance with C151, Class 52 in accordance with AWWA standard C150 and C104. Fittings shall comply with AWWA C110. Joints--mechanical and push-on shall comply with AWWA C111.
- The minimum cover for all water main and water service pipe is 6' from finished grade to top of pipe.
- All water mains under and within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench and backfill shall be placed in lifts not to exceed 12" compacted to 95% of maximum Standard proctor density.
- All valves shall be butterfly Mueller model R321-20 or gate Mueller model A-2370-20 valves with mechanical joints, resilient seat wedge type, with cast iron body, bronze mounted, bronze non-rising stem, double disc pattern, designed for 300 pounds working pressure meeting AWWA Standard C509. All valves shall open left.
- Water main separation from storm and sanitary sewer shall conform to section 41-2.01 of the Standard Specifications.
- The water service pipe shall be type K copper tubing in accordance with ASTM b-88 up to 2" in diameter. The corporation cock, curb stop, and the service box shall be of type and manufacture acceptable to the Village of Cherry Valley.
- No object may be constructed, maintained or installed within 48 inches of a fire hydrant. No trees, bushes, walks, or other obstacles which may hinder or impede the use of a fire hydrant will not be permitted.
- Hydrants shall be painted in conformity to AWWA Std. C502. The contractor shall verify color of paint with Village of Cherry Valley prior to procurement.
- All fire hydrants shall comply with AWWA Standard C502 and the Village of Cherry Valley requirements. The contractor shall contact the Village of Cherry Valley for specific requirements. All public hydrants shall have a "breakaway" design and shall be placed so that the center of the pumper nozzle is 18 to 24 inches above the ground line. A hole of 1/2 cubic yard volume shall be dug at each hydrant and filled with washed gravel to act as a drain for two (2) bronze lined outlets. Hydrants shall be Mueller Centurion model A-423 unless a different model is approved in advance by Village of Cherry Valley.
- Fire hydrants shall be placed at least 3 feet off the edge of pavement.
- Connections to Existing Mains. All connections to the Village water distribution system shall be made under full water service pressure unless otherwise approved by the Village Engineer at locations approved by the Village Engineer.
- Pressure Test.
 - As part of the construction, the water mains shall be pressure tested in accordance with Section 41-2.12 of the Standard Specifications.
 - All newly laid pipe shall be subjected to a hydrostatic pressure of 150 pounds per square inch. Duration of each pressure test shall be for a period of not less than two hours. Each valved section of pipe shall be filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe.
 - Before applying the specified test pressure, all air shall be expelled from the pipe. All leaks shall be repaired until tight. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced and the test repeated until satisfactory results are obtained.
- All testing shall be done after the installation of service lines. Suitable means shall be provided for determining the quantity of water lost by leakage under the specified test pressure in accordance with Section 41-2.14C of the Standard Specifications.
- Disinfection.
 - Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine gas. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine dose applied to the water entering the newly laid pipe shall be at least forty to fifty ppm, or enough to meet the requirements during the retention period. This may require as much as one hundred ppm of chlorine in the water left in the line after chlorination.
 - Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water.
 - Treated water shall be retained in the pipe long enough to destroy all spore-forming bacteria. This retention period shall be at least twenty-four hours. After the chlorine-treated water has been retained for the required time, the chlorine residual at the pipe extremities and at other representative points should be at least ten ppm.
 - In the process of chlorinating newly laid pipe, all valves or other appearances shall be operated while the pipeline is filled with the chlorinating agent.
 - All water mains and services shall be disinfected and tested according to the requirements of the Standards for Disinfecting Water Mains, AWWA C601. All disinfection shall be performed by an independent firm exhibiting experience in the methods and techniques of this operation, and shall be approved by the Village.

STORM SEWER NOTES

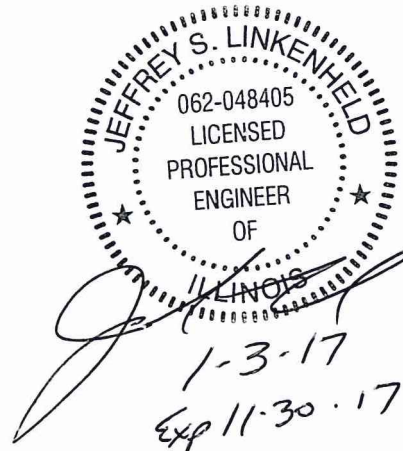
- Storm sewer shall be constructed in accordance with the following:
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
 - Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
 - Standards and requirements of the Village of Cherry Valley.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- Material Specifications. All storm sewer system elements shall conform to the following specifications:
 - Sewer Pipe. All storm sewer pipe shall be reinforced concrete pipe unless otherwise specifically noted in this plan set.
 - Sump pump service connection and storm sewer extension, (4" and 6")--ABS sewer pipe or PVC sewer pipe ASTM D2751, SDR35, or ASTM D3034, SDR35, respectively.
 - Reinforced concrete pipe (12" diameter and larger), circular reinforcement, minimum Class 3, wall B, ASTM C78.
 - Reinforced concrete arch culvert pipe--double line reinforcement, minimum Class 3, ASTM C508.
 - Reinforced concrete elliptical culvert pipe--minimum Class HE-III or VE-III, ASTM C507.
 - PVC underdrain pipe (4" and 6")--ASTM D2729, SDR35.
 - Galvanized corrugated steel culvert pipe AASHTO M249, Type B, minimum wall thickness 14 gauge (shall only be used for culverts).
 - Sewer Pipe Joints.
 - ABS pipe--ASTM C443.
 - PVC pipe--ASTM D3212, push-on type, except underdrain pipe which shall have solvent welded joints.
 - Reinforced concrete pipe--ASTM C443 ("O" ring).
 - Casing Pipes. Steel pipe--ASTM A120, 3/8" minimum thickness.
 - Manholes and Catch Basins.
 - Precast reinforced concrete--ASTM C478.
 - Size:
 - For sewer eighteen inches in diameter or less, manhole shall have a forty-eight inches inside diameter.
 - For sewer twelve inches in diameter, manhole shall have a sixty inch inside diameter.
 - For sewer greater than thirty-six inches in diameter, manhole shall have an offset riser pipe of forty-eight inches inside diameter.
 - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
 - If GASKETED PIPE IS USED: Pipe and frame seals. All pipe connection openings shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole frame. IF NON-GASKETED PIPE IS USED: Pipe and frame seals. All pipe connection openings shall be made watertight with hydraulic cement. The hydraulic cement sealing pipe connections shall extend the full thickness of the structure wall. Hydraulic cement shall also be applied within the structure from the cone section, past all adjustment rings, to the frame.
 - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
 - Inlets.
 - Precast reinforced concrete--ASTM C478 and ASTM C443.
 - Size: Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
 - Adjustment: No more than two precast concrete adjusting rings with six inch maximum height adjustment shall be allowed.
 - Only one pipe connection is allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
 - Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
 - Castings (Unless otherwise noted within the plans)
 - Manhole frame and cover--Use area inlet as listed below unless specified as a "closed lid" in this plan set. Closed lid frame and covers shall be Neenah No. R-1772-C embossed "STORM SEWER".
 - Manhole steps--Neenah No. R-1980-1.
 - Six inch curb and gutter inlet--Neenah No. R-3240.
 - Yard inlet--Neenah No. R-2502.
 - Parking lot inlet--Neenah No. R-2502.
 - Crushed Granular Bedding: Crushed gravel or crushed stone course aggregate--ASTM C33, Size No. 67.
- All end sections 24" and greater shall come equipped with trash grate and tie block in compliance with Illinois Department of Transportation standard.
- Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying progress.
- Install pipe in accordance with manufacturer's written recommendations.
- Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
- Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
- All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation FA-6 or approved equal. (Grade R or Grade 9).
- Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
- Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
- Backfill trenches to contours and elevations shown on the drawings.

EARTHWORK BIDDING NOTE

The intent of the civil design is to have a balanced site for the project. In the event that there is not enough cut, trench spoils, etc. to construct the site as designed, the contractor may borrow an additional two feet from the bottom of the detention pond. In the event that the detention pond borrow is insufficient, the contractor may lower the grass to one foot. Should lowering the athletic field be necessary to achieve a balanced site, the contractor shall request a revised grading plan from the Civil Engineer in order to ensure smooth transitions from the adjacent areas. In the event that the contractor has excess spoils, the Civil Engineer shall require the contractor to dispose of the spoils in a controlled manner as to where the material may be wasted on site without export. Any modifications to grades should be reviewed with the Civil Engineer. Associated work with raising or lowering the site, including storm adjustments, manhole rim adjustments, other utility adjustments as needed shall be incidental to the project.

LIME STABILIZATION NOTE

Remediation of the building pad subgrade soils in order to provide a stable working platform upon which floor slab construction can proceed may consist of Portland Cement, fly ash or lime modification. Cement, fly ash or lime modification should extend to a minimum depth of 16 inches. Cement, fly ash or lime modified soils should be compacted to at least 90 percent of Modified Laboratory Proctor Density per ASTM D 1557 in order to achieve a minimum Immediate Bearing Value (IBV) of 8.0. The remediation work should be performed by a subcontractor who specializes in the planned method and has proven experience with such successful projects. The subcontractor should adjust his procedures/methods and/or materials, as needed, so that modified soils will not be expansive and the floor is not subject to expansion.



GENERAL NOTES

- The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site.
- The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the city, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
- In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
- Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and IDOT standards.
- All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the Village of Cherry Valley, the State of Illinois, and this plan set.
- The Village of Cherry Valley must be notified at least two (2) working days prior to the commencement or resumption of any work.
- The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
- All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
- The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
- All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all times.
- Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner shall be notified immediately upon encountering any tile.
- The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
- All elevations are on NAD 83 datum.
- The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, General Telephone, Commonwealth Edison, Nicor Gas and cable television, if any. The J.U.I.E. number is 1-800-892-0123.
- Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
- The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the City with record drawings in a digital format compatible with AutoCAD Release 14 upon completion of his work.
- Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the plans.
- Notify the owner and Village of Cherry Valley of any existing wells. Obtain permit form the Illinois Bureau of Minerals and the State Water Survey. Cap and abandon wells in accordance with local, state, and federal regulations.
- Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur. Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpaved areas.
- Contractor shall include 2,200 cubic yards of undercut in base bid and supply unit price. Final payment will be based on quantity used x unit price. See Grading Plan.
- Contractor shall include all construction layout in his bid. If interested in obtaining a price quote from Arc Design Resources, contact Mr. Lee Sprecher at 815-484-4300 x238 with items requested.

SANITARY SEWER NOTES [RRWRD]

- Sanitary Sewer shall be constructed in accordance with the following:
 - "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
 - "General Provisions and Technical Specifications for Sanitary Sewer Construction" in the Rock River Water Reclamation District Sanitary District (formerly known as the Sanitary District of Rockford) dated October 24, 1983, and all standards and revisions adopted by the Board of Trustees for said Sanitary District of Rockford.
 - Additional details and requirements provided in the contract documents, including this plan set.Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
- All PVC sanitary sewer (SDR 26 and SDR 35) shall meet the requirements of ASTM D-3034 (4" - 24") or ASTM F-4979 (18" - 24") with joints conforming to ASTM D-3212. All PVC watermain-quality sanitary sewer (SDR 26) shall meet the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. Pipe bedding for all PVC pipe shall be Class 1A per ASTM D-2321-74.
- Sanitary sewer services shall be 4" PVC/Watermain Quality SDR 26 in accordance with ASTM D-2241, and shall extend 3' past the property line of all lots. Joints between the wyre and end of service riser shall be gasketed in accordance with ASTM D-3139. All services shall be sloped from the main at 1% MINIMUM unless otherwise noted. Mark all property line with a 2x4 painted green. End of service risers are required in accordance with the RRWRD standard details included in these plans.
- WYE or TEE branches shall be a minimum 7' from the outside of any sanitary manhole and be furnished and installed by the Contractor as shown on the Engineering drawings.
- All testing, fittings, bedding, granular cradle, and trench backfill where necessary shall be included in the unit costs for the installation of the underground facilities unless quantified on plans.
- PVC pipe should be installed with proper bedding providing uniform longitudinal support under the pipe. Bedding material should be worked under the sides of the pipe to provide satisfactory haunching. Initial bedding material should be placed to a minimum depth of one foot over the top of the pipe. All pipe embedment material should be selected and placed carefully, avoiding large stones, frozen lumps and debris.
- After placement and compaction of pipe embedment materials, the balance of backfill materials may be machine placed and should contain no large stones or rocks, frozen material or debris. Excavated materials free from topsoil may be used in the final trench depth provided they are placed in 9" lifts loose measured and compacted to not less than 95% ASTM D-698 standard proctor.
- All sanitary sewer manholes shall have eccentric cones with the cone openings centered over the pipe. All manholes shall be guaranteed by the contractor for 3 years after RRWRD acceptance.
- All sanitary sewer manholes shall be 48-inch diameter precast concrete, unless shown otherwise.
- The allowable infiltration shall not exceed 200 gallons/inch diameter/mile/24 hours.
- Sanitary sewers shall be air-tested in accordance with RRWRD requirements.
- All new sanitary sewer manholes shall be vacuum tested in accordance with ASTM C 1244.
- All sanitary sewers under or within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench backfill shall be placed in lifts not to exceed 10" compacted to 95% of maximum standard proctor density.
- Rock River Water Reclamation District shall be notified 48 hours prior to the start of construction and air testing of sanitary sewers. Water main, water services, and storm sewer must be installed and RRWRD notified soon after installation before sanitary sewer testing can be performed.
- Trenches must be backfilled to 2' below subgrade and mains and services must have 5' minimum depth of cover over the top of pipe before sanitary sewer testing can be performed.
- Manhole frames shall be provided with self sealing lids. Neenah R-1670, East Jordan E-1117 or District approved equivalent frame and lid.
- Upon completion of construction, all sanitary manhole castings shall be exposed and set at final grade.
- Exterior manhole seals shall be required on all new manholes including the barrel sections.
- Deflection testing for flexible conduit.
 - All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.
 - If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical pulling devices.
 - Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
 - Maximum allowable pipe deflection is 5%. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflected pipe fail to return to the original size (inside diameter) the line shall be replaced.
- For water main separation notes applicable to sanitary sewer, see Water Main note 8.
- Where sanitary sewer depths exceed 12' the contractor shall use the Alternate Service Riser method to install the sewer service line so that the invert of the service, at the property line, is 10.5' below the proposed centerline grade.
- Upon completion of construction all sanitary manhole castings shall be exposed and set to final grade. The District must inspect this work.
- Exterior manhole seals will be required as part of manhole adjustments. Flattop manholes are not permitted. No adjusting rings are required outside a paved roadway or in a roadway with curb and gutter. All manholes adjusted or reconstructed where more than two rings are involved will require vacuum testing.
- The Rock River Water Reclamation District will furnish a full-time inspector for all sanitary work.
- All fill material in the area of sanitary sewer mains and services must be placed and compacted prior to installation of the sewer mains and services.
- The Rock River Water Reclamation District specifies the following manhole adjustment requirements:
 - A minimum of 4' of adjusting rings (4" adjusting ring not required in turf areas or in full curb and gutter roadways)
 - A maximum of 12" of adjusting rings
 - A maximum of 1 - 2" adjusting ring per manhole.
 - A maximum of 30' from the top of casting to the first step
- Notes: Adjustment by grouting is not permitted. Where the roadway agency of jurisdiction allows, rubber adjusting rings shall be used.
- Labeled pipe lengths are from center of manhole to center of manhole.
- Labeled sanitary sewer rates are calculated based on the difference between the invert elevations from the outside-to-outside distance of the manhole wall and the distance between the centers-to-centers of the manholes minus 5' for a 4' diameter manhole.
- Refer to typical section for pavement and shoulder dimensions.

Sanitary Sewer Service Connection

- Contractor must complete a standard RRWRD Industrial/Commercial (I/C) application and submit to RRWRD for approval of the sewers shown as part of the building connection permitting process.
- The contractor shall coordinate all RRWRD fees associated with this project. The contractor shall pay all application fees, and should be reimbursed by the Owner. Contractor shall provide the owner with a written breakdown of all RRWRD fees with evidence of payment.
- RRWRD will require inspection of the sewer installation. Contractor shall coordinate this work directly with RRWRD. Owner shall pay for all inspection fees.
- All sanitary sewer, manholes, services and other appurtenances shall be installed as required by the RRWRD and/or the [local agency] contractor is responsible for familiarizing himself with the specific requirements for materials and construction for these two agencies.
- The Village of Cherry Valley may also require inspection of the building connections. The contractor shall coordinate all Village inspections with the Village building inspector, if needed.
- Contractor to install 6" service from main to designated point of connection as shown on the plans as part of sewer installation.
- RRWRD sanitary sewer service connection permits will not be issued under the Standard RRWRD process until after the RRWRD has issued a "Notice Allowing Connections".



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ROCKFORD PUBLIC SCHOOLS

SCHOOL ZONE 2

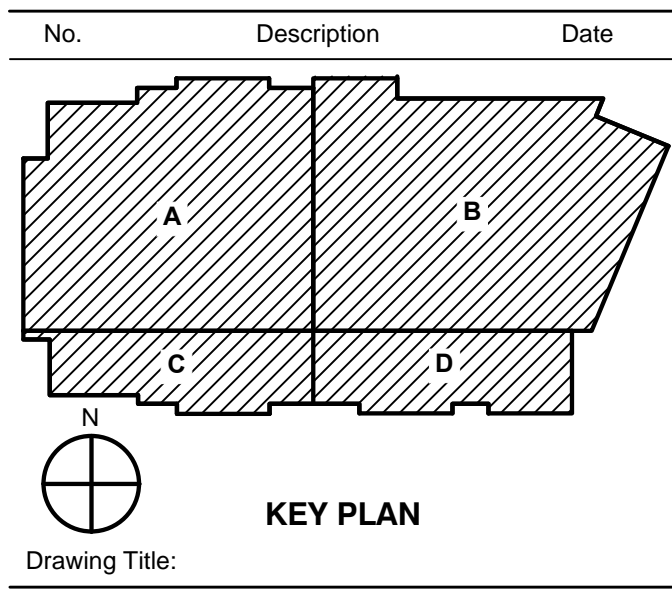
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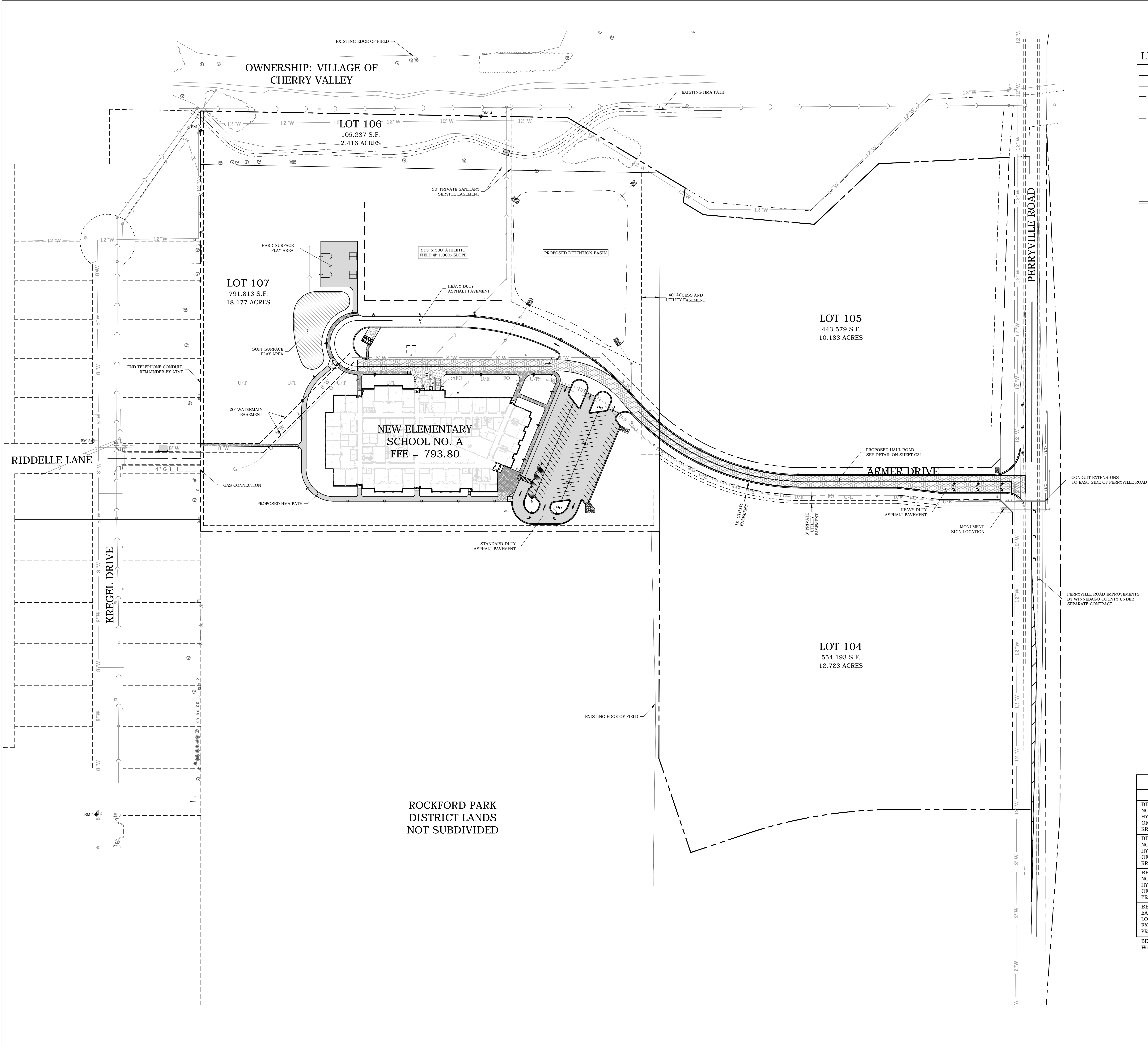


GENERAL NOTES

Project No.: 005005.00 Checked by: JSL

C01

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LEGEND

- PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED SETBACK LINE
- PROPOSED EASEMENT
- EXISTING FENCE
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK PAVEMENT
- PROPOSED CONCRETE CURB AND GUTTER
- EXISTING CONCRETE CURB AND GUTTER
- NUMBER OF PROPOSED PARKING SPACES PAINTED YELLOW STRIPES
- EXISTING UTILITY POLE
- EXISTING MAILBOX
- EXISTING LIGHT POLE
- PROPOSED SIGN
- EXISTING SIGN
- EXISTING SIGNAL CONTROLLER
- LIGHT POLE & FIXTURE (SEE ELECTRICAL PLANS)
- BENCHMARK
- PROPOSED STRIPING

BENCHMARKS	
DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ABINGTON DRIVE AND 30' WEST OF KREGEL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDDELLE LANE AND 30' WEST OF KREGEL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF WEST PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' EAST OF WEST PROPERTY LINE	780.47

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 16 (ELEV. = 797.00)

KEY PLAN

ROCKFORD PUBLIC SCHOOLS

SCHOOL ZONE 2

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KEY PLAN

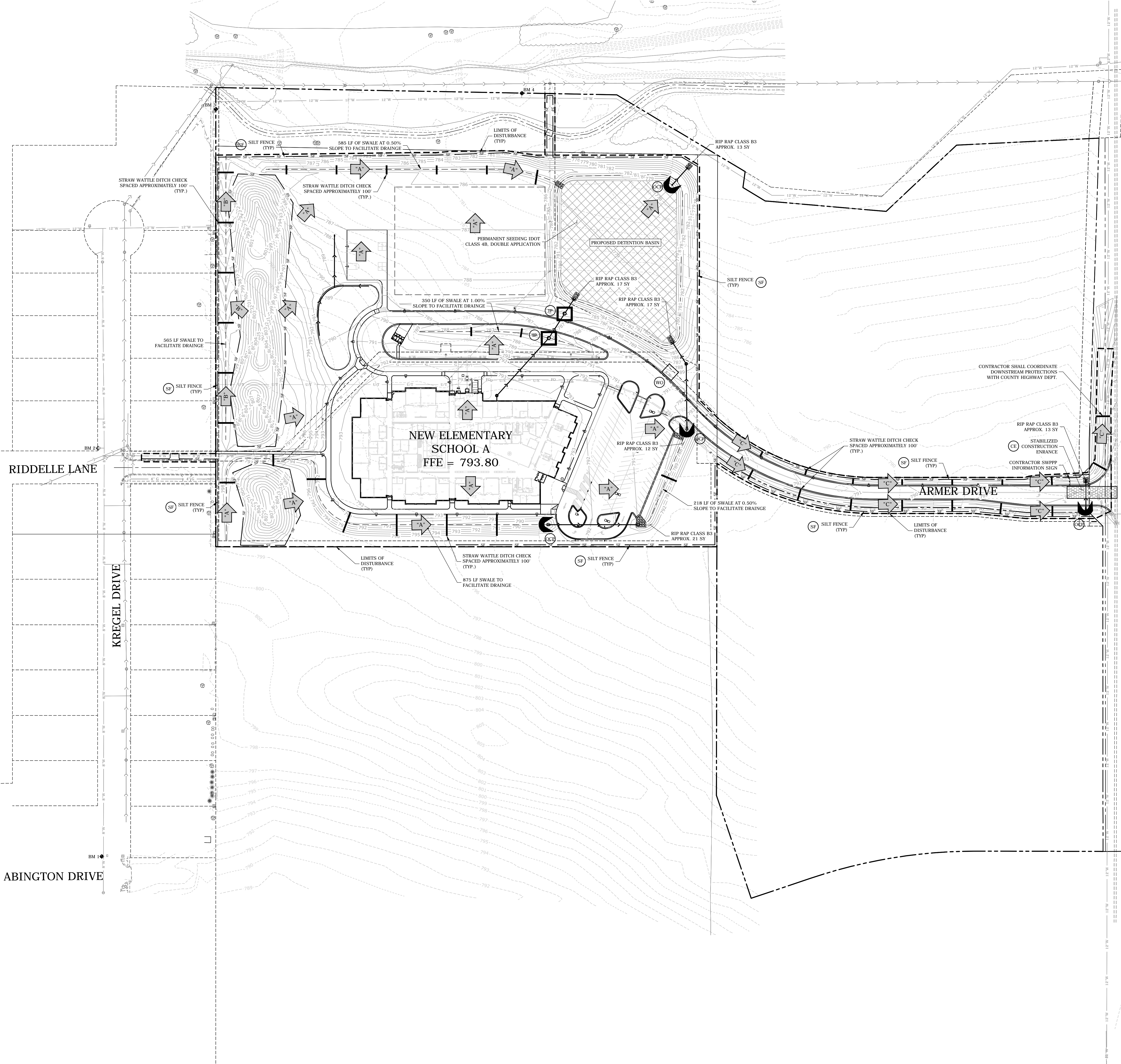
Drawing Title:

COMPREHENSIVE SITE PLAN

Project No.: 005005.00 Checked by: JSL

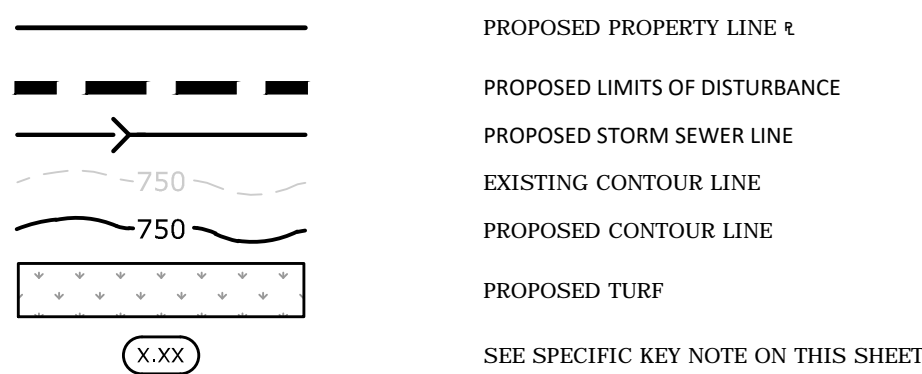
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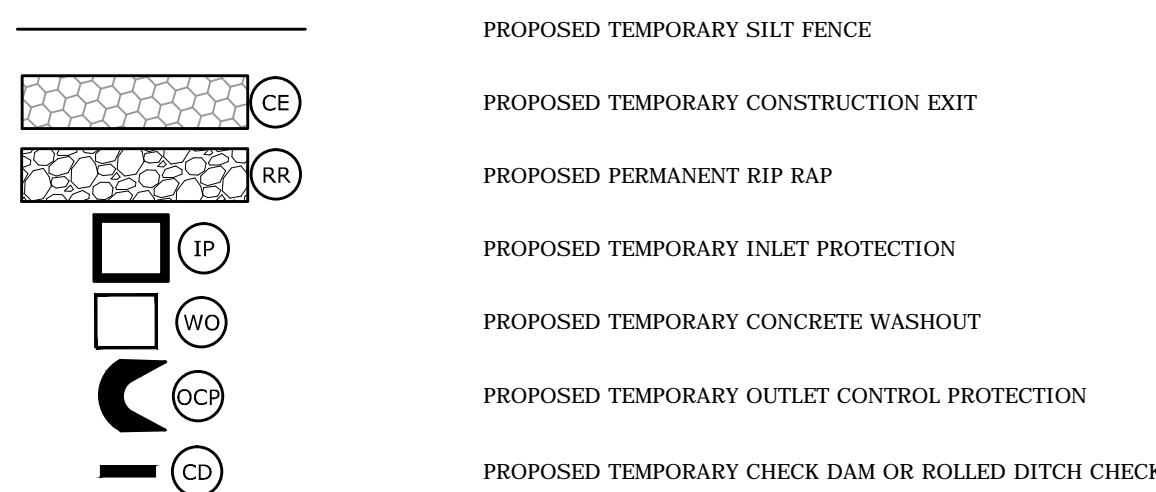


LEGEND

(SEE SITE PLAN SET FOR EXISTING SYMBOLS)



EROSION DETAILS (SEE SWPPP DETAILS SHEET FOR ITEMS BELOW)



GENERAL NOTES

- CONTRACTOR SHALL BE ABIDE BY ALL REQUIREMENTS SET FORTH BY THE LATEST REVISION OF THE ILLINOIS NPDES GENERAL PERMIT (08-10) FOR STORM WATER POLLUTION PREVENTION. LOCAL, STATE, AND FEDERAL AUTHORITIES RESERVE THE RIGHT TO REVIEW THE SITE FOR COMPLIANCE AND IMPOSE APPLICABLE PENALTIES FOR NON-COMPLIANCE.
- CONTRACTOR SHALL NOTE ANY CHANGES OR ADDITIONS TO THE SWPPP AND THE DATES OF SAID CHANGES OR ADDITIONS ON THIS SITE MAP.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S INCLUDING INTERMEDIATE BMP'S AS WARRANTED BY SITE CONDITIONS.
- THE EROSION CONTROL PLAN ACCOMPANIES A WRITTEN SWPPP DOCUMENT PROVIDED FOR THIS PROJECT. REFER TO WRITTEN SWPPP FOR FULL REQUIREMENTS.

STORMWATER OUTFLOWS

- A** FROM SITE - DRAINAGE AREA 'A' (16.41 AC) CONSISTING OF BUILDING, PARKING LOT, AND LANDSCAPED AREAS. ALL FLOWS TREATED BY TEMPORARY STRAW WATTLES, PERIMETER SILT FENCE AND OTHER BMP'S DESCRIBED IN THIS SWPPP AND THE ILLINOIS URBAN MANUAL DURING CONSTRUCTION.
- TO RECEIVING WATERS - DISCHARGE WILL SHEET DRAIN OR ENTER PROPOSED STORM SEWER THAT LEADS TO THE PROPOSED DETENTION BASIN LOCATED AT THE NORTHEAST CORNER OF THE SITE. THE BASIN WILL ULTIMATELY DISCHARGE TO AN EXISTING UNNAMED TRIBUTARY OF MADIGAN CREEK, WHICH LEADS TO THE KISHWAUKEE RIVER.
- B** FROM SITE - DRAINAGE AREA 'B' (1.11 AC) CONSISTING OF LANDSCAPED AREAS AND LAWN. ALL FLOWS TREATED BY TEMPORARY STRAW WATTLE DITCH CHECKS, INLET PROTECTION DEVICES, PERIMETER SILT FENCING, AND OTHER BMP'S DESCRIBED IN THIS SWPPP AND THE ILLINOIS URBAN MANUAL DURING CONSTRUCTION.
- TO RECEIVING WATERS - DISCHARGE WILL ENTER A PROPOSED SWALE LOCATED ALONG THE WEST PROPERTY LINE AND ULTIMATELY DISCHARGE TO AN EXISTING UNNAMED TRIBUTARY OF MADIGAN CREEK, WHICH LEADS TO THE KISHWAUKEE RIVER.
- C** FROM SITE - DRAINAGE AREA 'C' (1.75 AC) CONSISTING OF THE PROPOSED ACCESS ROAD AND LANDSCAPED AREAS. ALL FLOWS TREATED BY TEMPORARY STRAW WATTLES, PERIMETER SILT FENCE AND OTHER BMP'S DESCRIBED IN THIS SWPPP AND THE ILLINOIS URBAN MANUAL DURING CONSTRUCTION.
- TO RECEIVING WATERS - DISCHARGE WILL SHEET DRAIN INTO A PROPOSED SWALE THAT WILL ENTER AN EXISTING DITCH ALONG PERRYVILLE ROAD. THIS DITCH DISCHARGES INTO AN UNNAMED TRIBUTARY OF MADIGAN CREEK, WHICH LEADS TO THE KISHWAUKEE RIVER.

EROSION CONTROL REFERENCE NOTES

- 1.01** SEE CONSTRUCTION EXIT DETAIL. THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 14" IN WIDTH AND 70' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST BE LOCATED AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.
- 1.02** THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION. THE CONTRACTOR SHALL NOTE THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE SWPPP SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.
- 1.03** NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTIVE INSTALLATION OF LID. CONTRACTOR SHALL NOTE TIME STRUCTURE INSTALLATION (AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION) ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.
- 1.04** PERMANENT SEED MIX FOR TURF AREAS ON PRIVATE PROPERTY SHALL CONFORM TO IDOT STANDARDS AND SPECIFICATIONS FOR CLASS 1 (LAWN MIXTURE). PERMANENT SEEDING IN DETENTION BASIN SHALL CONFORM TO IDOT STANDARDS AND SPECIFICATIONS FOR CLASS 4b WITH DOUBLE APPLICATION. PERMANENT SEED MIX FOR TURF AREA IN R.O.W. SHALL CONFORM TO IDOT STANDARDS AND SPECIFICATIONS FOR CLASS 1.
- 1.05** PERMANENT EROSION CONTROL FABRIC NAG SC150 SHALL BE APPLIED TO ALL DISTURBED TURF AREAS ALONG WITH PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE NAG SC150 HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE REQUIREMENTS TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SPECIFIED ON THE LANDSCAPING PLAN AS SOON AS FINAL BASIN GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN FOR EXACT GROUND COVER TYPE AND LOCATION.
- 1.06** CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ILLINOIS NPDES GENERAL PERMIT AND THE SITE NOI.

ACREAGE SUMMARY

SITE AREA	17.97 ACRES
DISTURBED AREA	19.27 ACRES
PRE-CONSTRUCTION IMPERVIOUS AREA	0.0 ACRES
PREVIOUS AREA	19.27 ACRES
RUNOFF COEFFICIENT	0.25
POST-CONSTRUCTION IMPERVIOUS AREA	5.27 ACRES
PREVIOUS AREA	14.00 ACRES
RUNOFF COEFFICIENT	0.44

LAND OWNER

ROCKFORD PUBLIC SCHOOLS DISTRICT 205
501 7TH STREET
ROCKFORD, IL 61104

BENCHMARKS

DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ABINGTON DRIVE AND 30' WEST OF KREGEL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDELLE LANE AND 30' WEST OF KREGEL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF WEST PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' EAST OF WEST PROPERTY LINE	780.47

BENCHMARKS ESTABLISHED FROM WINGIS MONUMENTATION:
WINGIS STATION # 16 (ELEV. = 797.00)



ROCKFORD PUBLIC SCHOOLS

SCHOOL ZONE 2

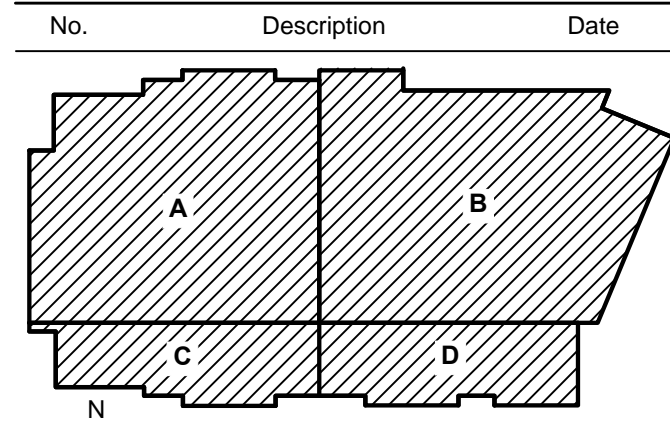
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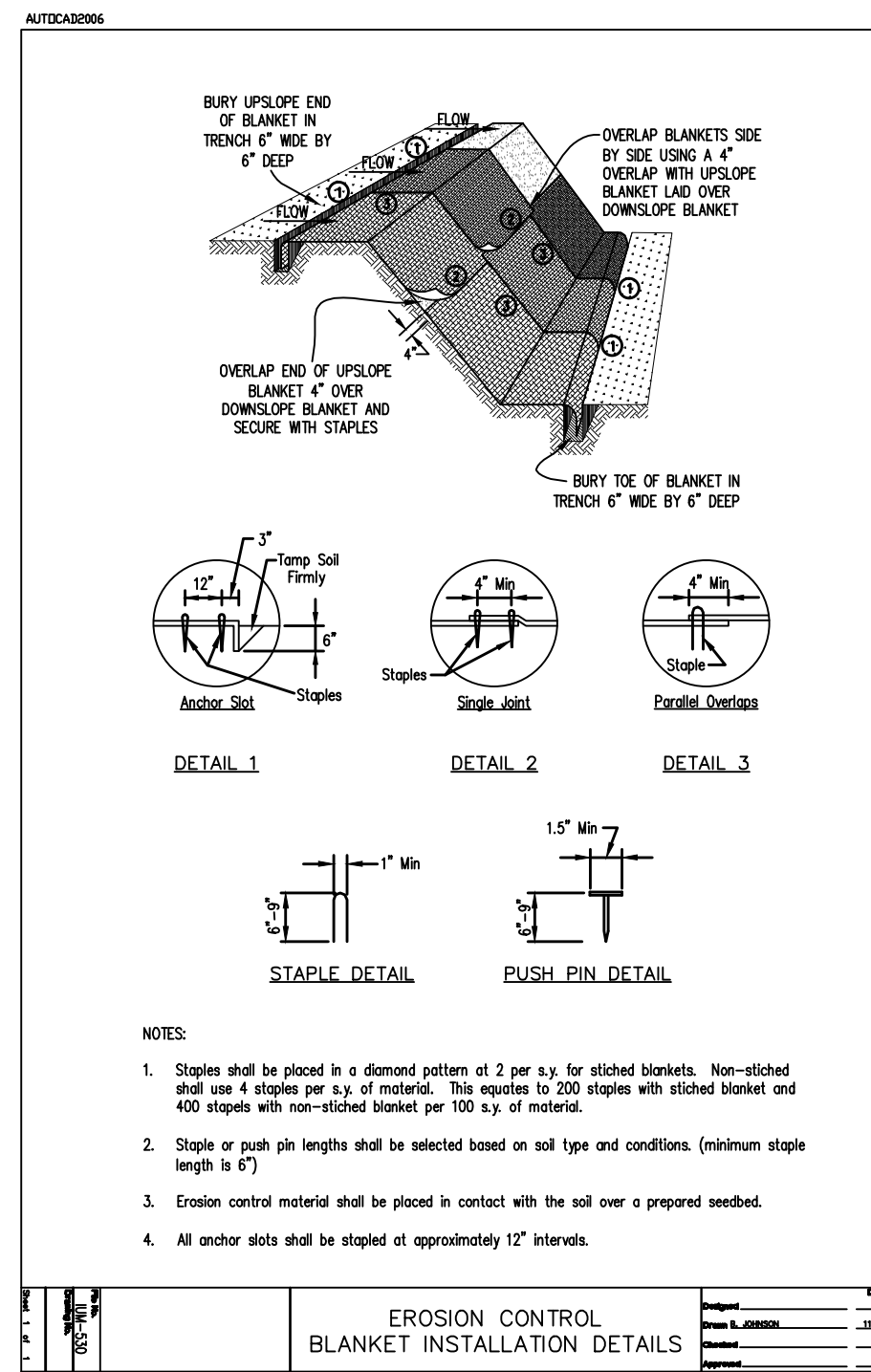
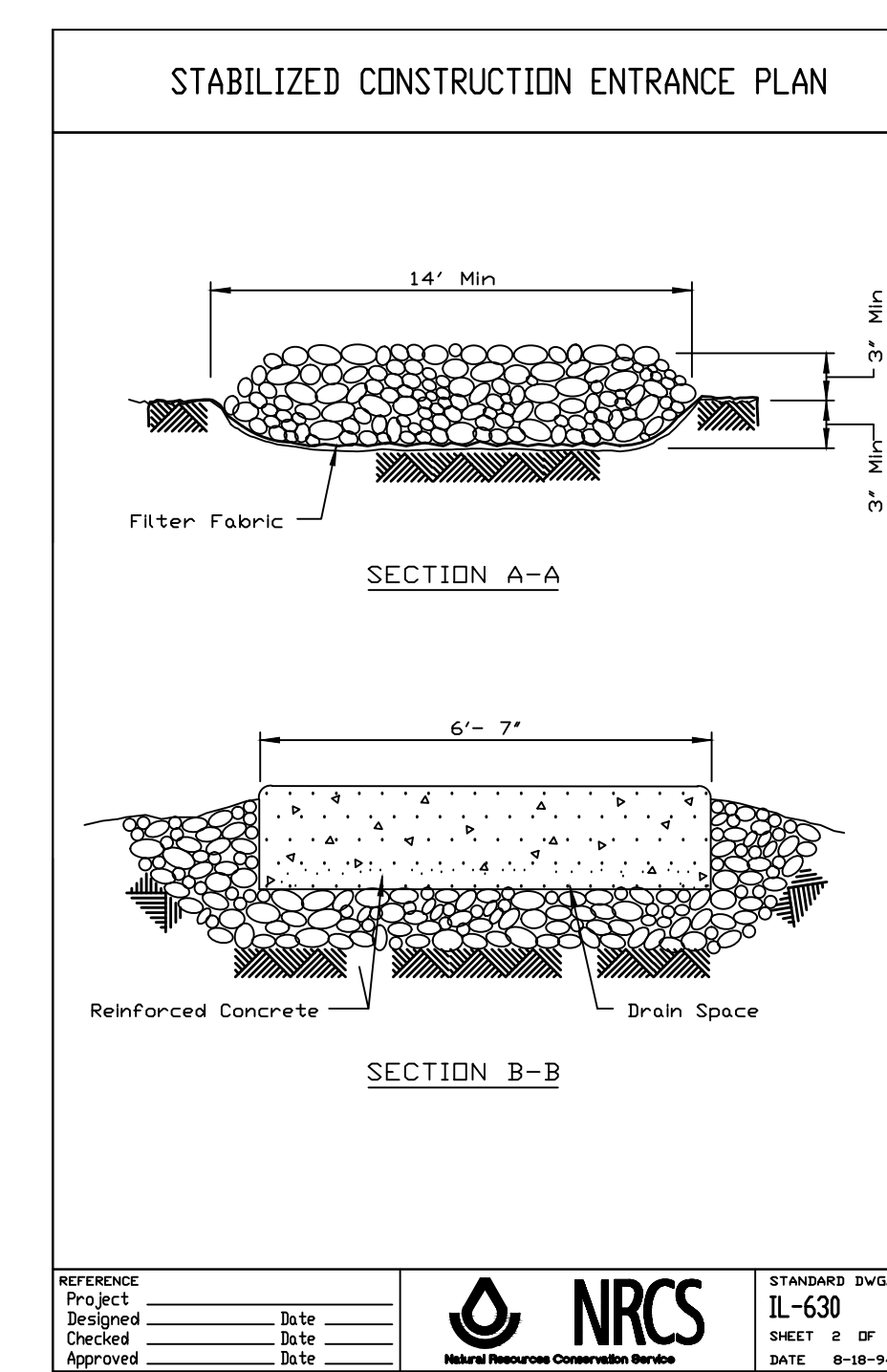
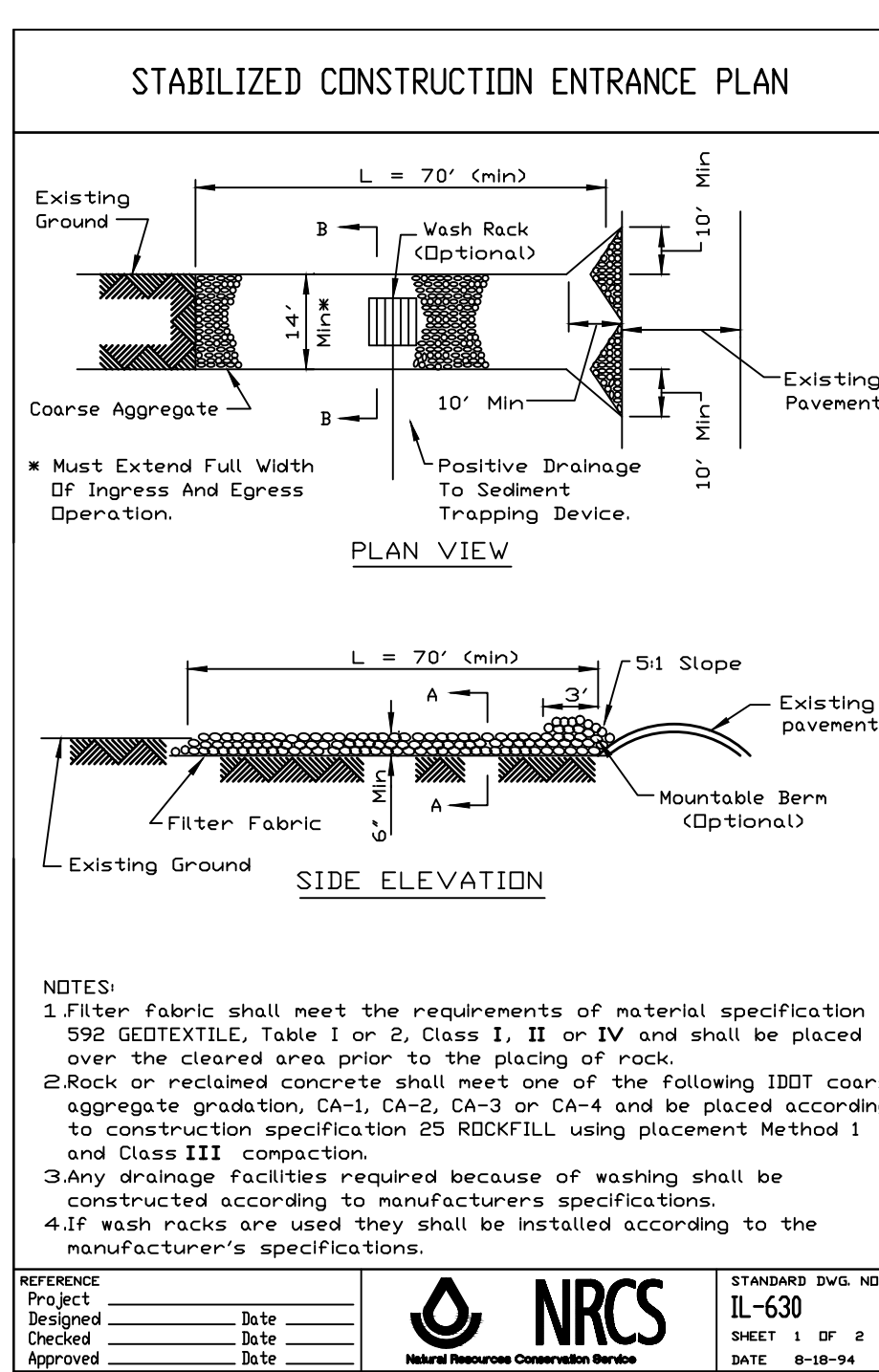
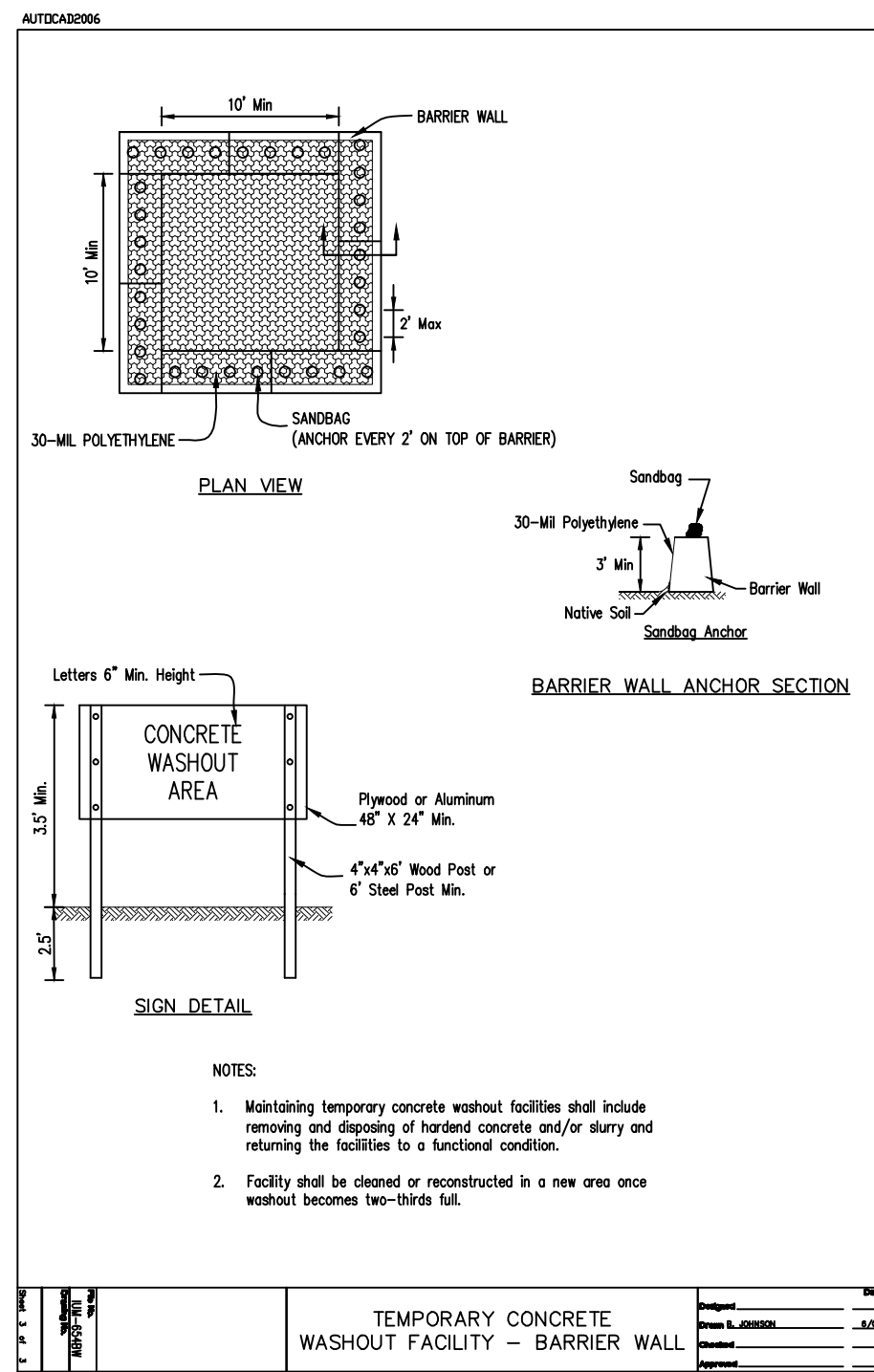


KEY PLAN

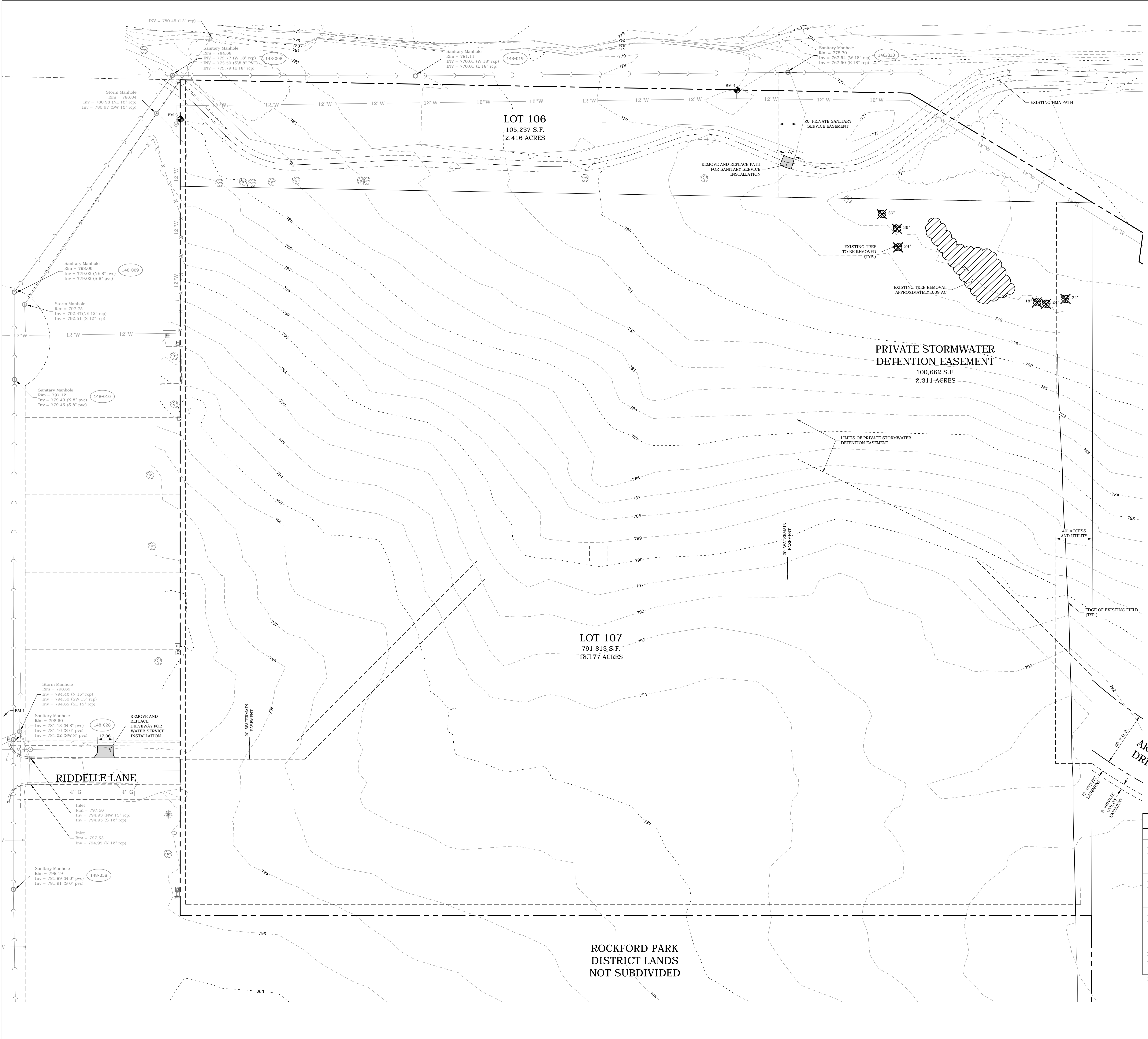
SWPPP SITE MAP

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LEGEND	
	PROPERTY LINE
	SECTION LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	CENTER LINE
	CURB AND GUTTER
	OVERHEAD UTILITIES
	GAS LINE
	FIBER OPTIC LINE
	CABLE TELEVISION LINE
	TELEPHONE LINE
	ELECTRIC LINE
	SANITARY SEWER LINE
	STORM SEWER LINE
	FENCE
	CONTOUR LINE
	SANITARY MANHOLE
	CLEANOUT
	STORM MANHOLE AREA INLET
	INLET SPECIAL
	CURB CATCHBASIN INLET
	CONCRETE FLARED END SECTION
	METAL OR PLASTIC FLARED END SECTION
	VALVE VAULT
	VALVE BOX
	FIRE HYDRANT ASSEMBLY
	SPRINKLER
	WELL
	MONITORING WELL
	UTILITY POLE
	GUY WIRE AND ANCHOR
	ELECTRIC TRANSFORMER AND PAD
	ELECTRIC PEDESTAL
	ELECTRIC METER
	CABLE JUNCTION BOX - PAD MOUNTED
	CABLE PEDESTAL
	TELEPHONE JUNCTION VAULT
	TELEPHONE PEDESTAL
	GAS METER
	GAS VALVE
	A.D.A. COMPLIANT PARKING
	LUMINAIRE AND POST
	SIGN AND POST
	BOLLARD
	AIR CONDITIONER
	FLAG POLE
	BENCHMARK LOCATION
	DECIDUOUS TREE
	CONIFEROUS TREE
	BUSH
	EXISTING TREE TO BE REMOVED
	MAILBOX
	TRAFFIC SIGNAL
	SIGNAL CONTROL CABINET
	HANDHOLE
	YARD LIGHT
	PARKING BLOCK
	PARKING METER

BENCHMARKS	
DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ABINGTON DRIVE AND 30' WEST OF KREGEL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDDELLE LANE AND 30' WEST OF KREGEL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF WEST PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' EAST OF WEST PROPERTY LINE	780.47

BENCHMARKS ESTABLISHED FROM WINGIS MONUMENTATION:
WINGIS STATION # 16 (ELEV. = 797.00)

NORTH

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ROCKFORD PUBLIC SCHOOLS

SCHOOL ZONE 2

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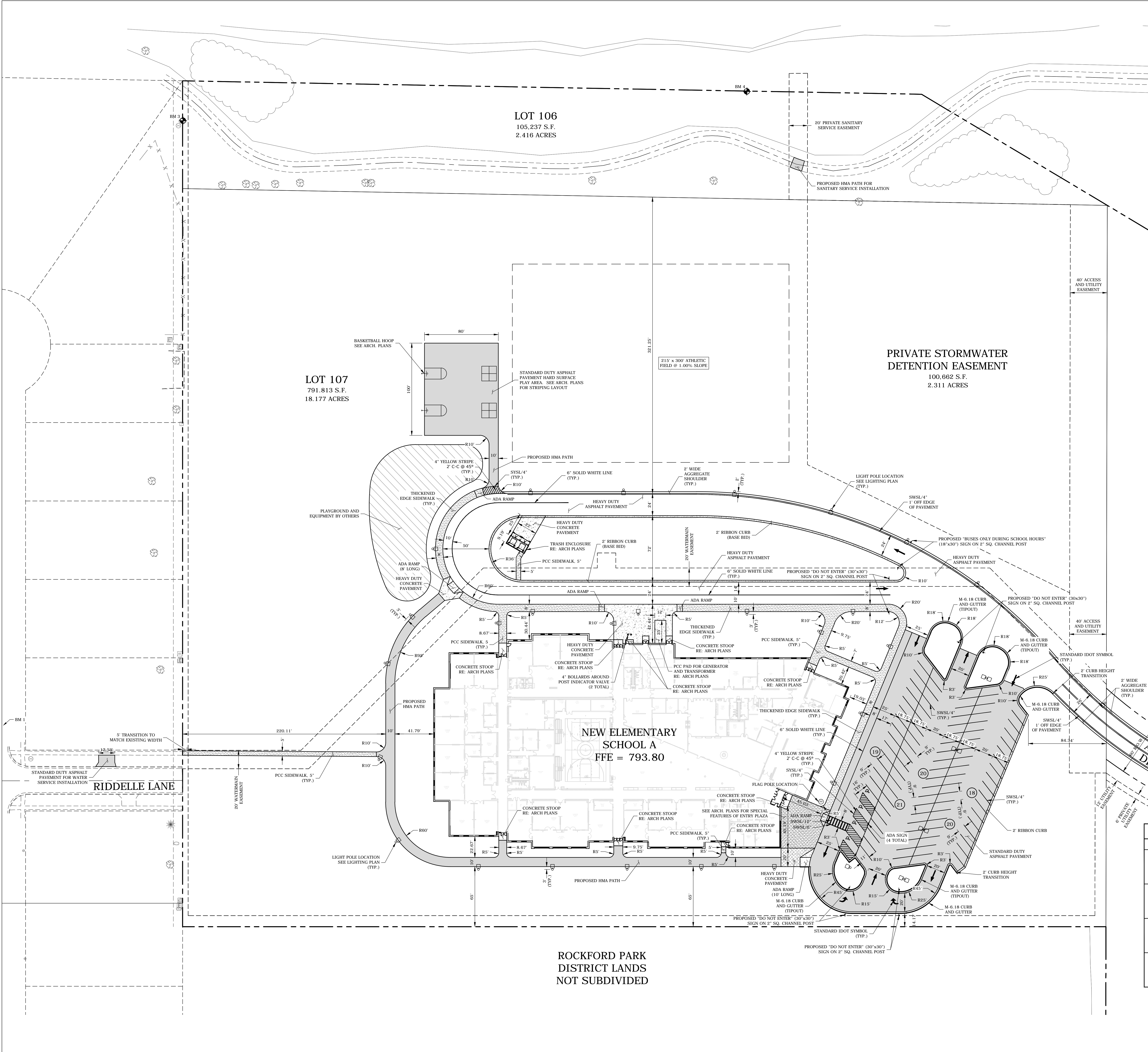
EXISTING CONDITIONS AND REMOVALS PLAN

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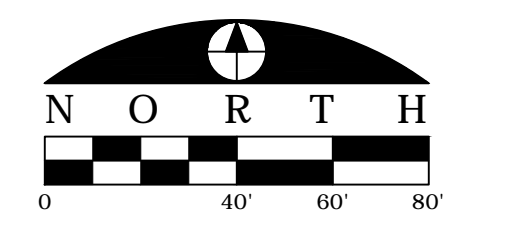
LEGEND	
	PROPOSED PROPERTY LINE &
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED LOT LINE
	PROPOSED EASEMENT LINE
	PROPOSED SETBACK LINE
	PROPOSED CENTER LINE &
	PROPOSED CURB AND GUTTER
	PROPOSED CURB AND GUTTER (TIPOUT)
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	HEAVY DUTY ASPHALT PAVEMENT
	STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED PAVEMENT MARKING FOR 60' PARKING STALLS
	PROPOSED PAVEMENT MARKING FOR 90' PARKING STALLS
	PROPOSED A.D.A. COMPLIANT PARKING
	PROPOSED NUMBER OF PARKING STALLS PER ROW
	PROPOSED SIGN AND POST
	PROPOSED BOLLARD
	PROPOSED POLE MOUNTED LUMINAIRE
	PROPOSED ORNAMENTAL POST AND LUMINAIRE
	PARKING BLOCK
	PROPOSED PAVEMENT MARKING, SINGLE YELLOW SOLID LINE, 4' WIDE
	PROPOSED PAVEMENT MARKING, DOUBLE YELLOW SOLID LINE, 4' WIDE
	PROPOSED PAVEMENT MARKING, SINGLE YELLOW DASHED LINE, 4' WIDE
	PROPOSED PAVEMENT MARKING, SINGLE WHITE SOLID LINE, 4' WIDE
	PROPOSED PAVEMENT MARKING, SINGLE WHITE SOLID LINE, 6' WIDE
	PROPOSED PAVEMENT MARKING, SINGLE WHITE SOLID LINE, 24' WIDE
	PROPOSED FENCE

- LAYOUT NOTES**
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
 - DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
 - SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
 - ALL RADII ARE DIMENSIONED TO THE EDGE OF PAVEMENT.
 - SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE CRITERIA ESTABLISHED BY ILDOT.

SITE DATA TABLE	
PARKING PROVIDED:	98 SPACES
REQUIRED A.D.A. PARKING:	4 SPACES
PROVIDED A.D.A. PARKING:	4 SPACES

BENCHMARKS	
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BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
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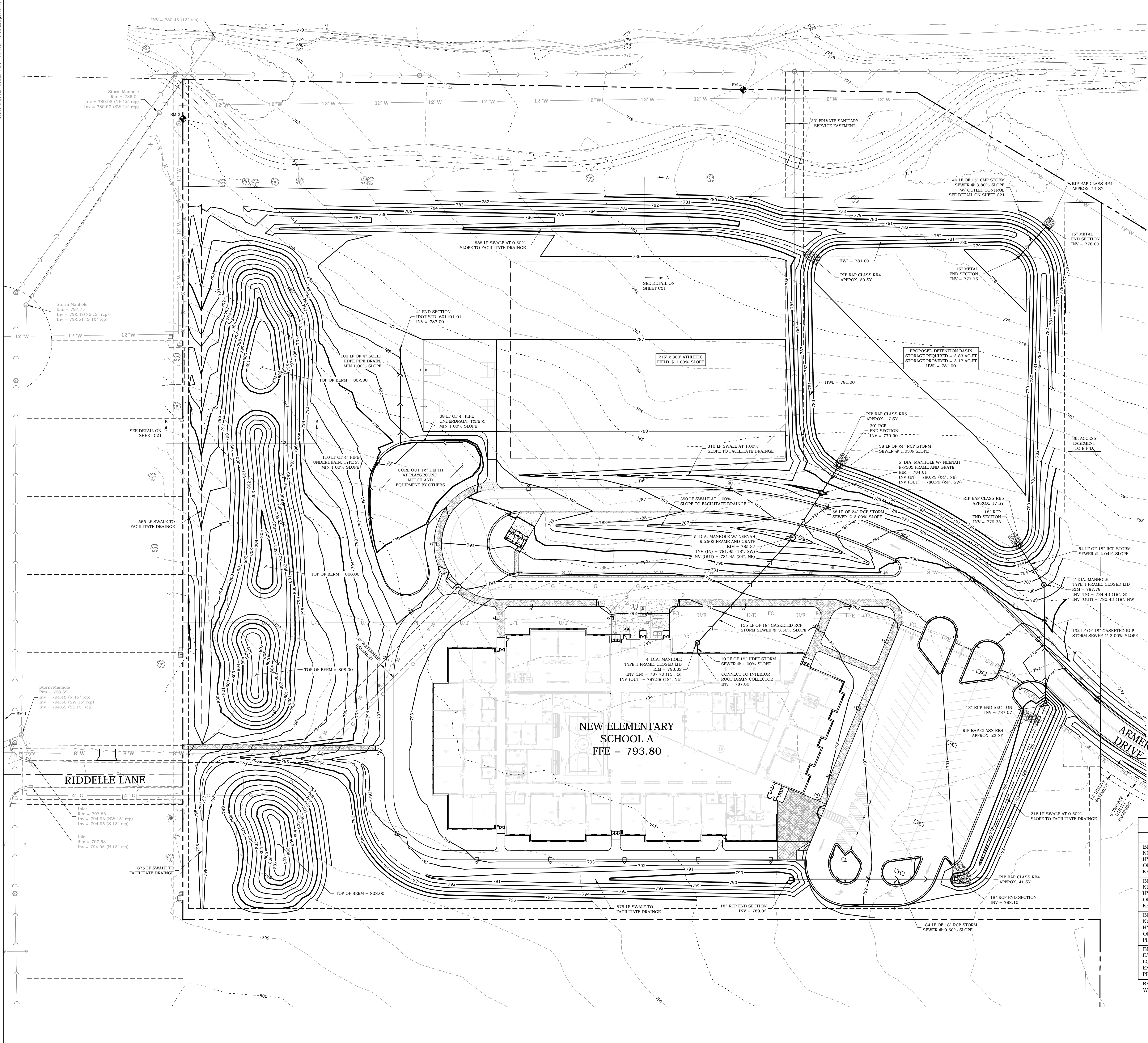
LAYOUT PLAN

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LEGEND

---	PROPOSED PROPERTY LINE
---	PROPOSED RIGHT-OF-WAY LINE
---	PROPOSED LOT LINE
---	PROPOSED EASEMENT LINE
---	PROPOSED CENTER LINE
---	PROPOSED CURB AND GUTTER
---	PROPOSED PAVEMENT MARKING FOR 90° PARKING STALLS
---	PROPOSED POLE MOUNTED LUMINAIRE
---	PROPOSED ORNAMENTAL POST AND LUMINAIRE
---	PROPOSED SANITARY SEWER LINE
---	PROPOSED SANITARY MANHOLE
---	PROPOSED SANITARY CLEANOUT
---	PROPOSED SANITARY RISER
---	PROPOSED WATER LINE
---	PROPOSED VALVE VAULT
---	PROPOSED VALVE BOX
---	PROPOSED CURB STOP / BUFFALO BOX
---	PROPOSED FIRE HYDRANT ASSEMBLY
---	PROPOSED ELECTRIC LINE
---	PROPOSED UTILITY POLE
---	PROPOSED ELECTRIC TRANSFORMER AND PAD
---	PROPOSED GAS LINE
---	PROPOSED GAS METER
---	PROPOSED TELEPHONE LINE
---	BENCHMARK LOCATION
---	PROPOSED CONTOUR LINE
---	PROPOSED STORM SEWER LINE
---	PROPOSED STORM MANHOLE
---	PROPOSED FLARED END SECTION

- GRADING NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
 2. ALL UNSURFACED AREAS ARE TO RECEIVE A MINIMUM SIX INCHES OF TOPSOIL AND SEEDED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
 3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
 4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 4 HORIZONTAL TO 1 VERTICAL.
 5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
 7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
 8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.
 9. ALL BERMS OR TOP OF SLOPE SHALL BE ROUNDED PER DETAILS EVEN THOUGH CONTOUR DESIGN MIGHT INDICATE A "TABLE TOP" SHARP EDGE.

UNDERCUT NOTE

CONTRACTOR SHALL INCLUDE A TOTAL OF 2,200 CUBIC YARDS OF UNDERCUT IN BASE BID AND SUPPLY UNIT PRICE. FINAL PAYMENT WILL BE BASED ON QUANTITY USED & UNIT PRICE. THE BASE BID QUANTITY OF UNDERCUT INCLUDES THE BUS LOOP AND BUILDING PAD. IF ADDITIONAL UNDERCUT IS REQUIRED IN EXCESS OF 2,200 CUBIC YARDS, THE UNIT PRICE SUPPLIED BY THE CONTRACTOR WILL BE USED TO CALCULATE FINAL PAYMENT. A SIMILAR CREDIT WILL BE PROVIDED BACK TO THE SCHOOL DISTRICT IF UNDERCUT IS LESS THAN THE BASE BID QUANTITY.

BENCHMARKS	
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BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
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ROCKFORD PUBLIC SCHOOLS

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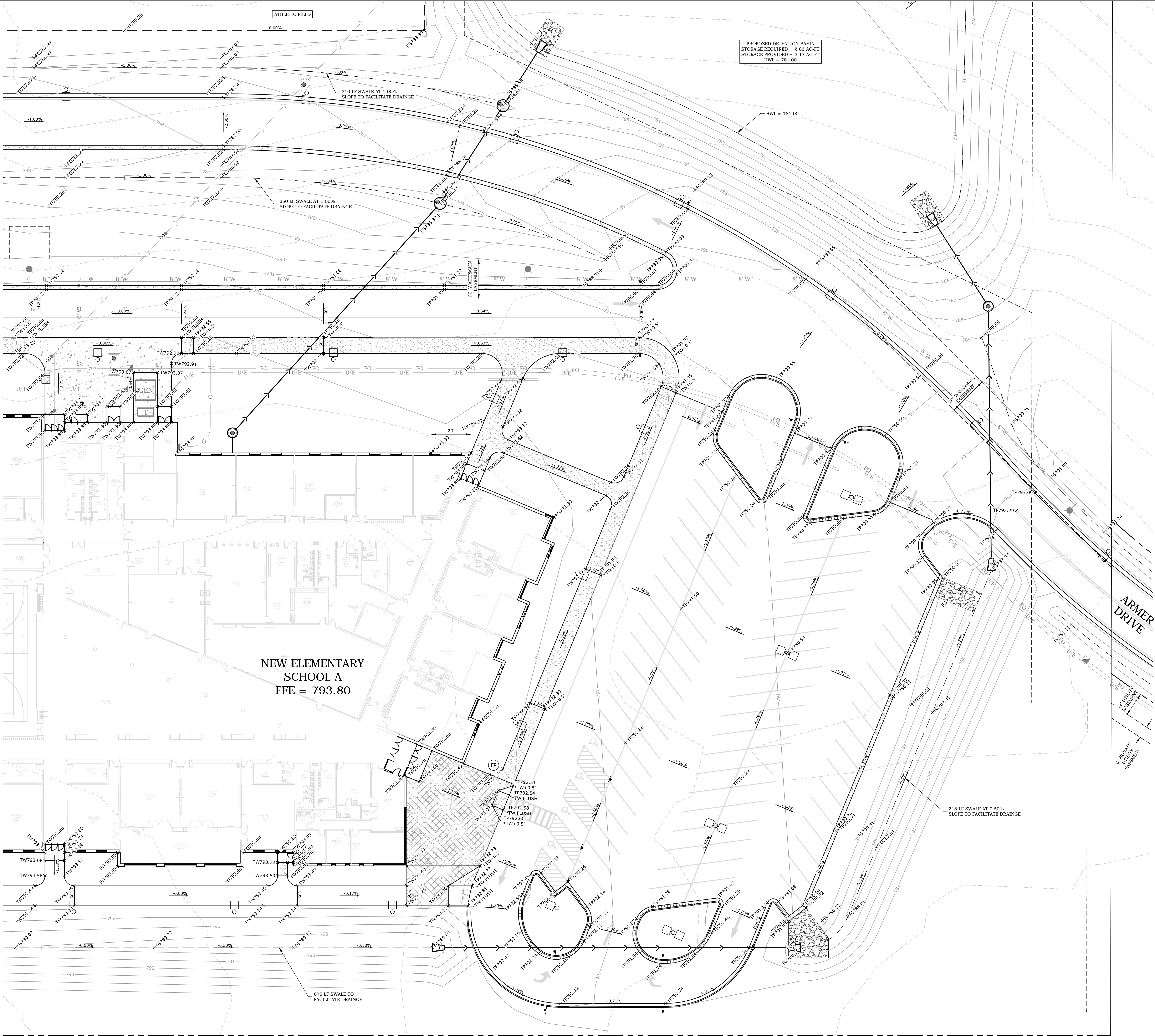
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KEY PLAN

Grading Plan

Project No.: 005005.00 Checked by: JSL

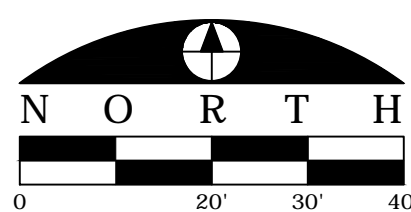
C07



LEGEND	
	PROPOSED PROPERTY LINE
	PROPOSED CURB AND GUTTER
	PROPOSED PAVEMENT MARKING FOR 90° PARKING STALLS
	PROPOSED POLE MOUNTED LUMINAIRE
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY MANHOLE
	PROPOSED SANITARY CLEANOUT
	PROPOSED SANITARY RISER
	PROPOSED WATER LINE
	PROPOSED VALVE VAULT
	PROPOSED VALVE BOX
	PROPOSED CURB STOP / BUFFALO BOX
	PROPOSED FIRE HYDRANT ASSEMBLY
	PROPOSED ELECTRIC LINE
	PROPOSED UTILITY POLE
	PROPOSED ELECTRIC TRANSFORMER AND PAD
	PROPOSED GAS LINE
	PROPOSED GAS METER
	PROPOSED TELEPHONE LINE
	BENCHMARK LOCATION
	PROPOSED CONTOUR LINE
	TOP OF PAVEMENT ELEVATION
	TOP OF SIDEWALK ELEVATION
	FINISHED GRADE ELEVATION
	PROPOSED STORM SEWER LINE
	PROPOSED GRADE BREAK LINE
	PROPOSED STORM MANHOLE
	PROPOSED FLARED END SECTION

BENCHMARKS	
DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ABINGTON DRIVE AND 30' WEST OF KREGEL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDDELLE LANE AND 30' WEST OF KREGEL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF WEST PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' EAST OF WEST PROPERTY LINE	780.47

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 16 (ELEV. = 797.00)



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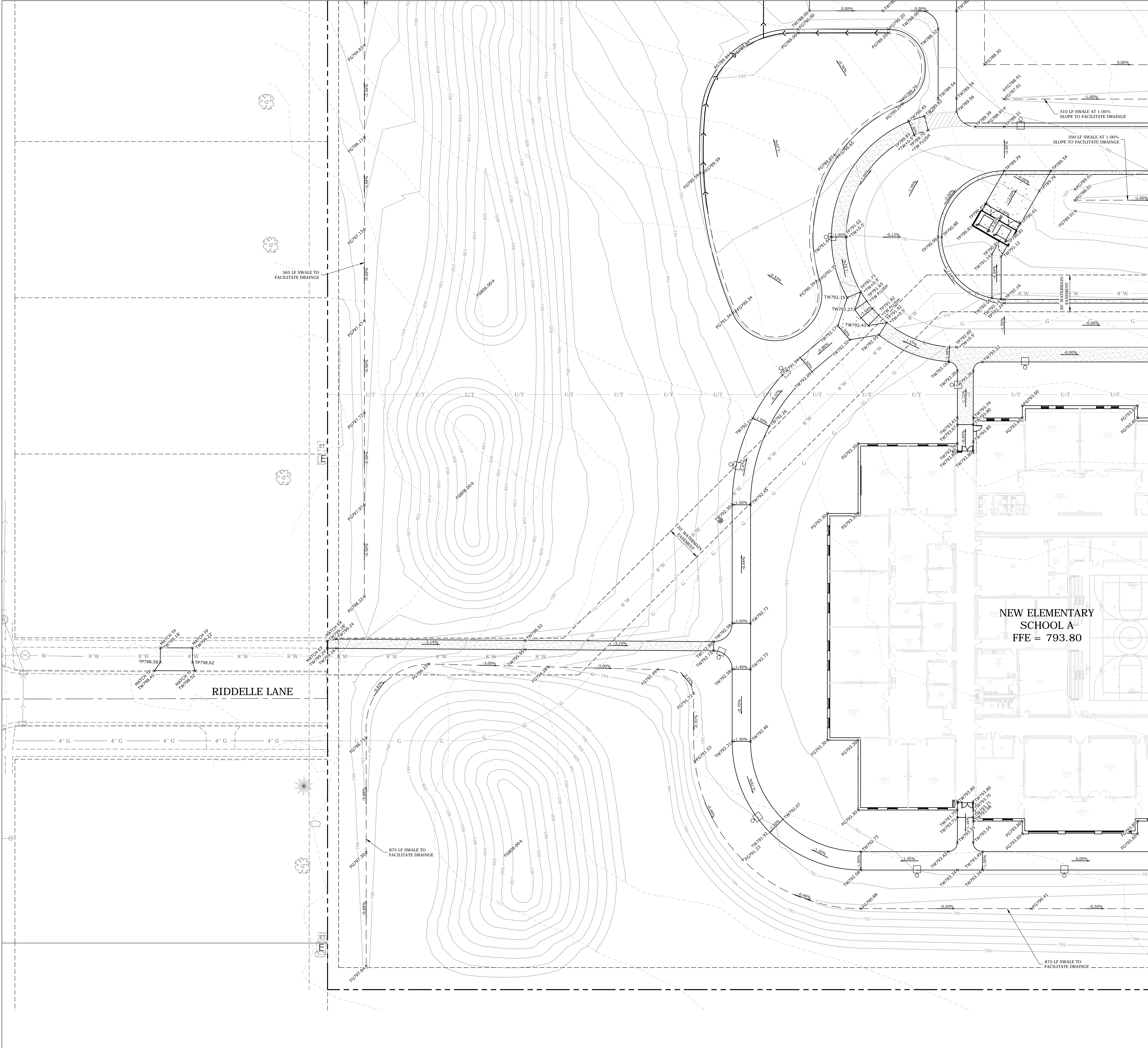


SPOT ELEVATION
DETAILS - SOUTHEAST

Project No.: 005005.00 Checked by: JSL

C08

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- LEGEND**
- PROPOSED PROPERTY LINE
 - PROPOSED CURB AND GUTTER
 - PROPOSED PAVEMENT MARKING FOR 90' PARKING STALLS
 - PROPOSED POLE MOUNTED LUMINAIRE
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY CLEANOUT
 - PROPOSED SANITARY RISER
 - PROPOSED WATER LINE
 - PROPOSED VALVE VAULT
 - PROPOSED VALVE BOX
 - PROPOSED CURB STOP / BUFFALO BOX
 - PROPOSED FIRE HYDRANT ASSEMBLY
 - PROPOSED ELECTRIC LINE
 - PROPOSED UTILITY POLE
 - PROPOSED ELECTRIC TRANSFORMER AND PAD
 - PROPOSED GAS LINE
 - PROPOSED GAS METER
 - PROPOSED TELEPHONE LINE
 - BENCHMARK LOCATION
 - PROPOSED CONTOUR LINE
 - TPXXXX TOP OF PAVEMENT ELEVATION
 - TWXXXX TOP OF SIDEWALK ELEVATION
 - FGXXXX FINISHED GRADE ELEVATION
 - PROPOSED STORM SEWER LINE
 - PROPOSED GRADE BREAK LINE
 - PROPOSED STORM MANHOLE
 - PROPOSED FLARED END SECTION

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BENCHMARKS ESTABLISHED FROM WINGIS MONUMENTATION:
WINGIS STATION # 16 (ELEV. = 797.00)

KEY PLAN

SPOT ELEVATION DETAILS - SOUTHWEST

Project No.: 005005.00 Checked by: JSL

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SPOT ELEVATION DETAILS - SOUTHWEST

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BENCHMARKS	
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BENCHMARKS ESTABLISHED FROM WINGIS MONUMENTATION: WINGIS STATION # 16 (ELEV. = 797.00)

KEY PLAN

SPOT ELEVATION DETAILS - NORTHWEST

Project No.: 005005.00 Checked by: JSL

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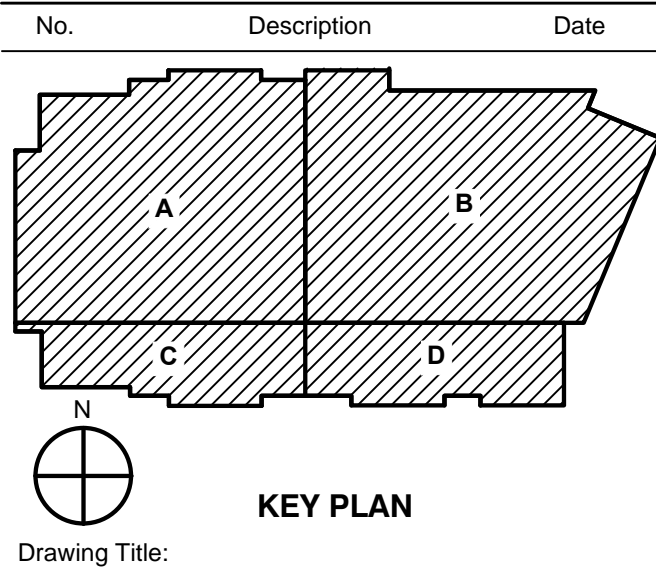
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224-717-1999

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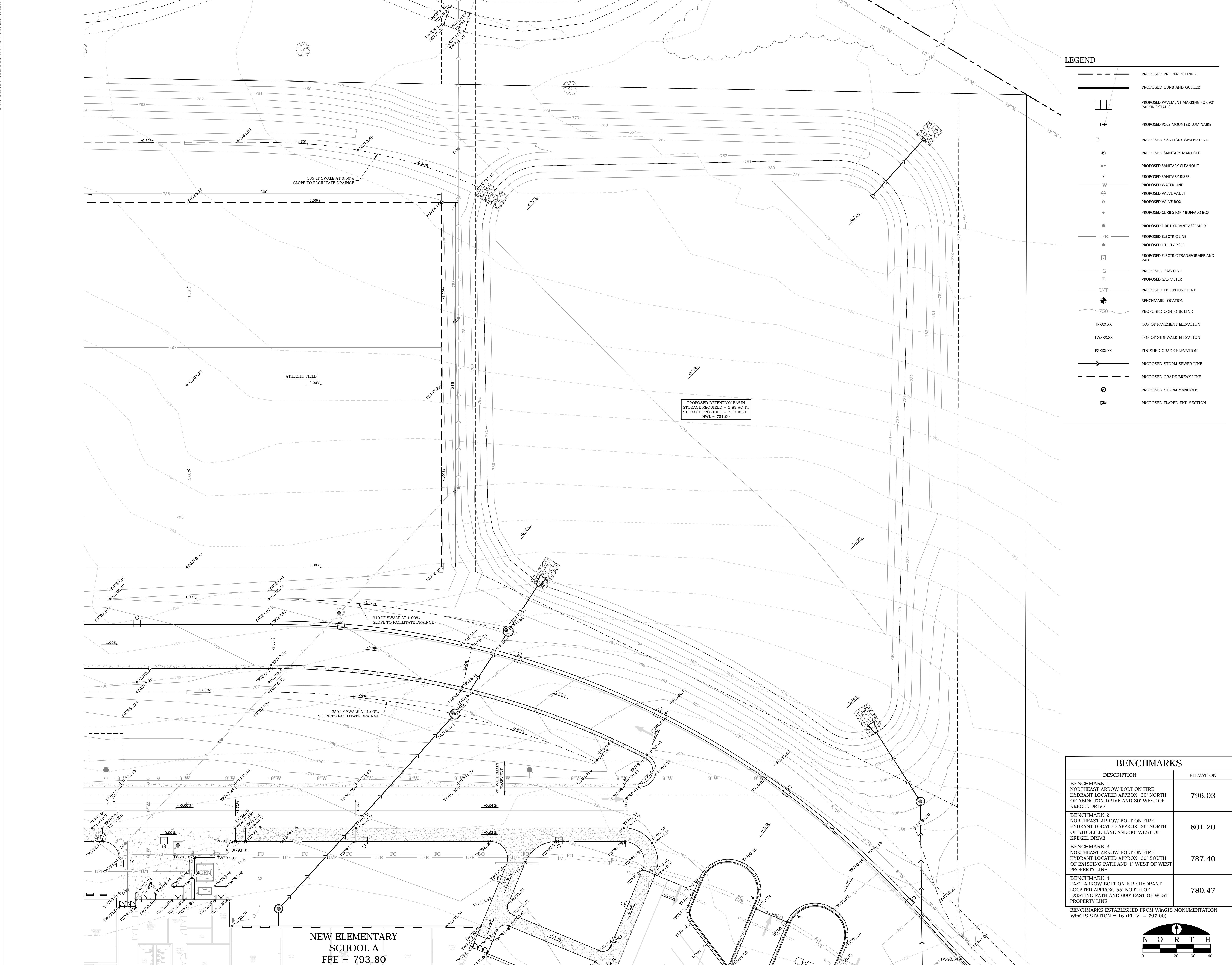
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SPOT ELEVATION
DETAILS - NORTHEAST

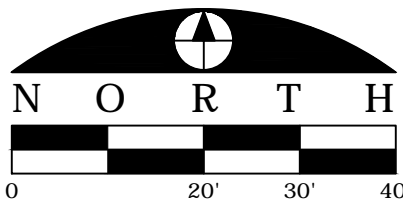
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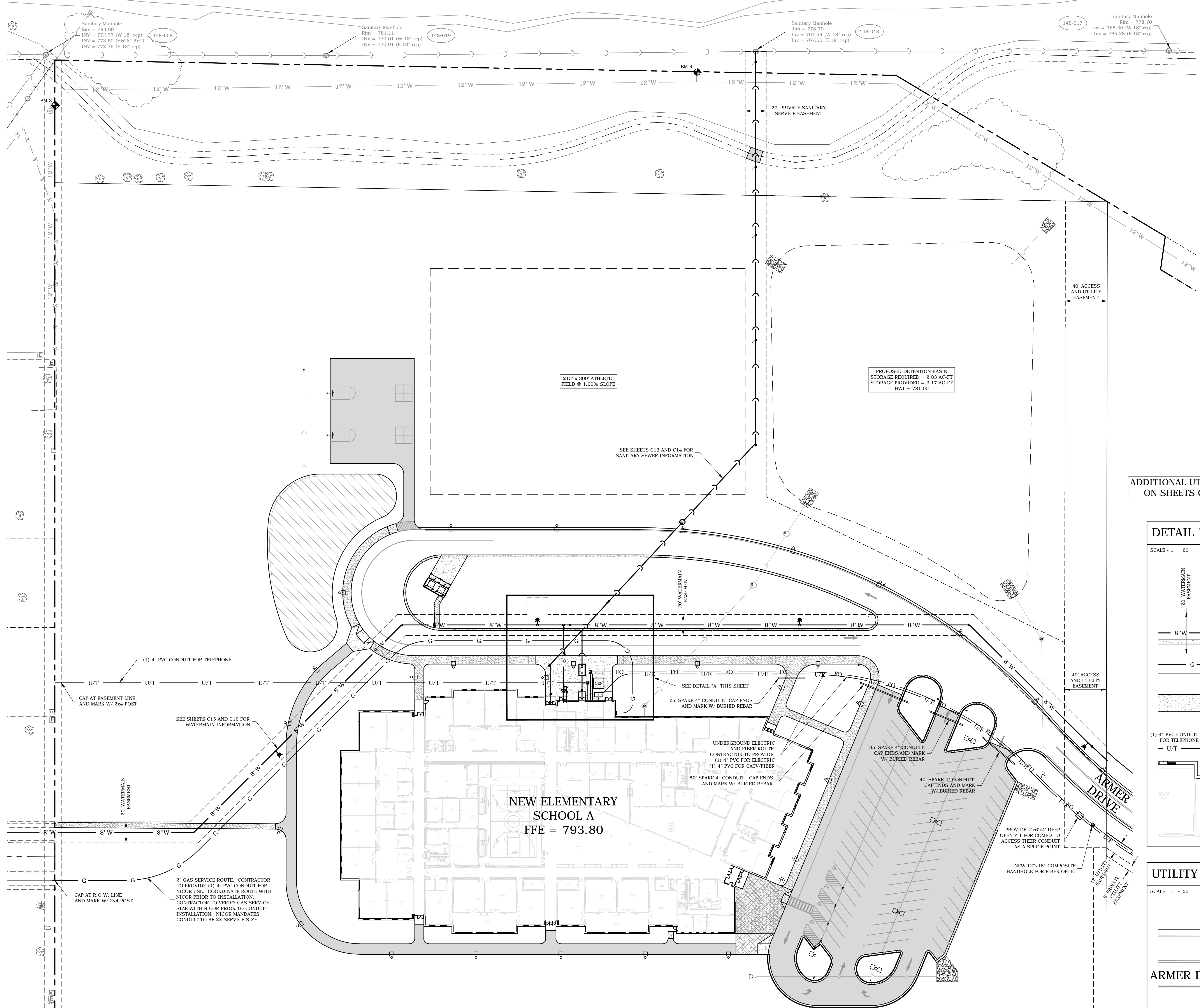


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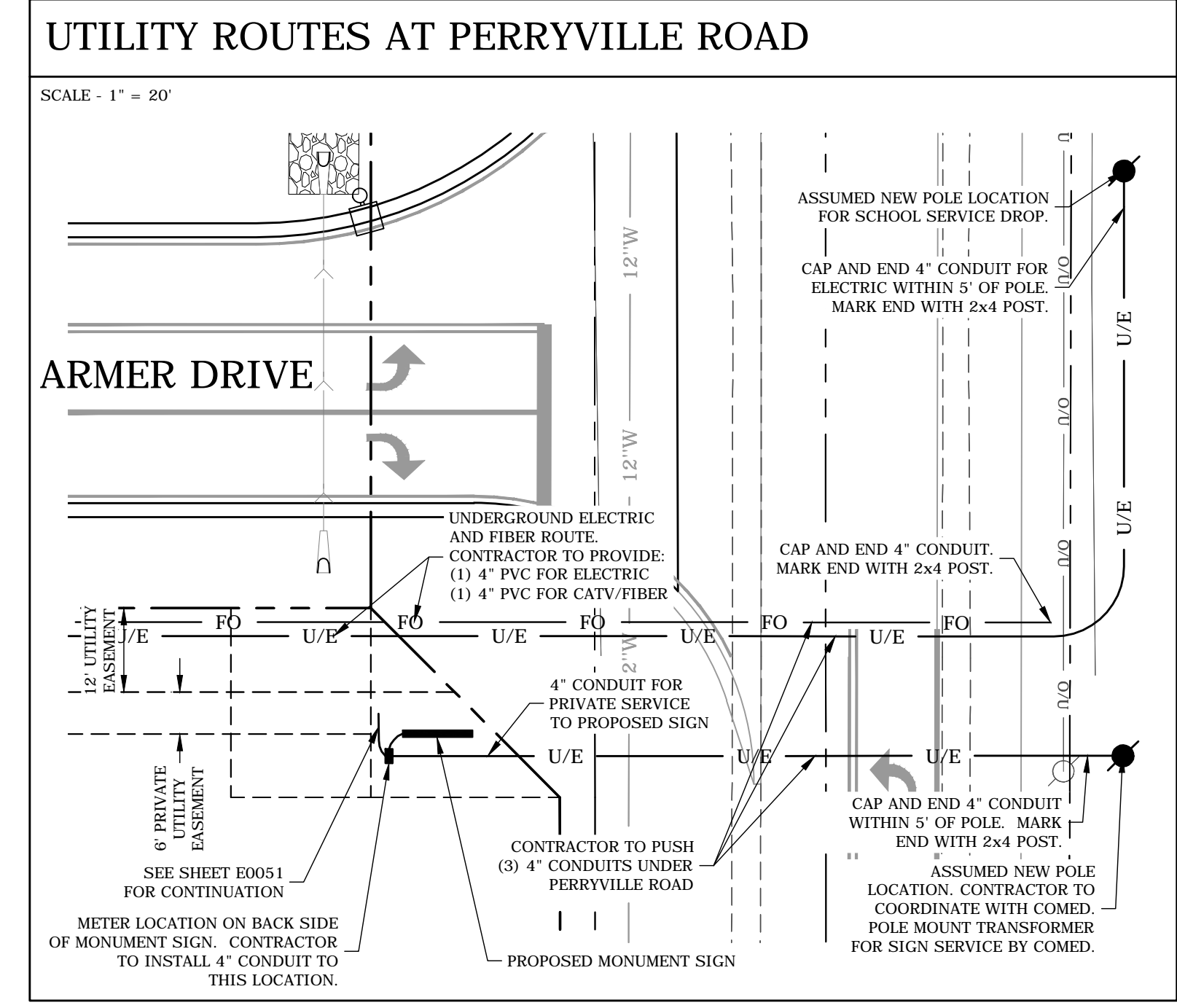
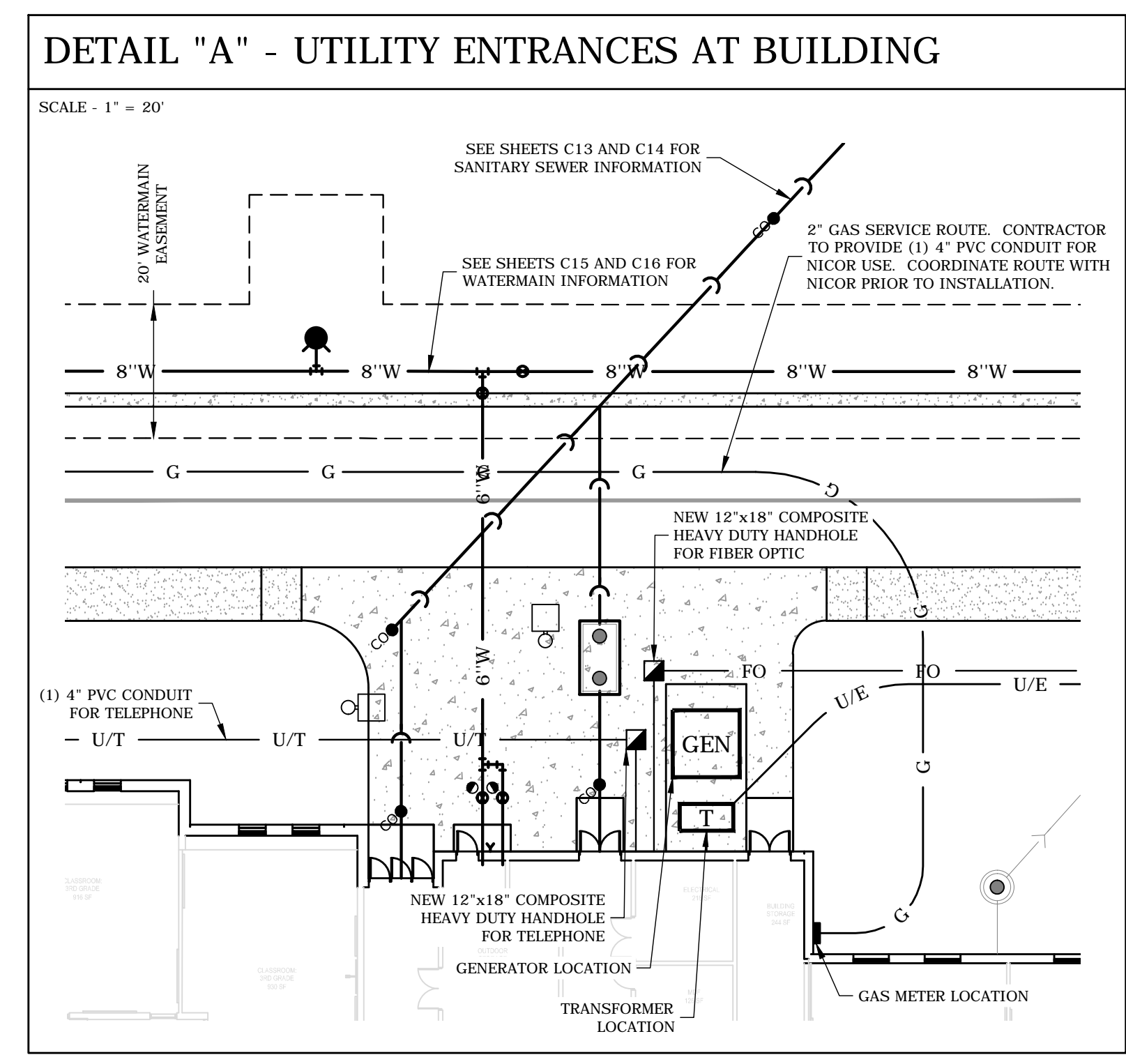


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- LEGEND**
- PROPOSED PROPERTY LINE
 - PROPOSED RIGHT-OF-WAY LINE
 - PROPOSED LOT LINE
 - PROPOSED EASEMENT LINE
 - PROPOSED SETBACK LINE
 - PROPOSED CENTER LINE
 - PROPOSED CURB AND GUTTER
 - PROPOSED PAVEMENT MARKING FOR 60' PARKING STALLS
 - PROPOSED PAVEMENT MARKING FOR 90' PARKING STALLS
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED SANITARY CLEANOUT
 - PROPOSED SANITARY RISER
 - PROPOSED WATER LINE
 - PROPOSED VALVE VAULT
 - PROPOSED VALVE BOX
 - PROPOSED CURB STOP / BUFFALO BOX
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 - PROPOSED UTILITY POLE
 - PROPOSED ELECTRIC TRANSFORMER AND PAD
 - PROPOSED GAS LINE
 - PROPOSED GAS METER
 - PROPOSED TELEPHONE LINE
 - BENCHMARK LOCATION
 - PROPOSED STORM SEWER LINE
 - PROPOSED STORM MANHOLE
 - PROPOSED FLARED END SECTION

ADDITIONAL UTILITIES SHOWN
ON SHEETS C17 AND C18



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KEY PLAN

Drawing Title:

UTILITY PLAN

Project No.: 005005.00 Checked by: JSL

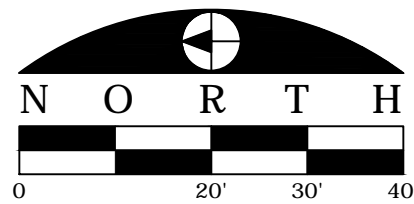
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VILLAGE OF
CHERRY VALLEY
PIN: 16-03-226-007
ADDRESS: 6903 HARRISON ROAD

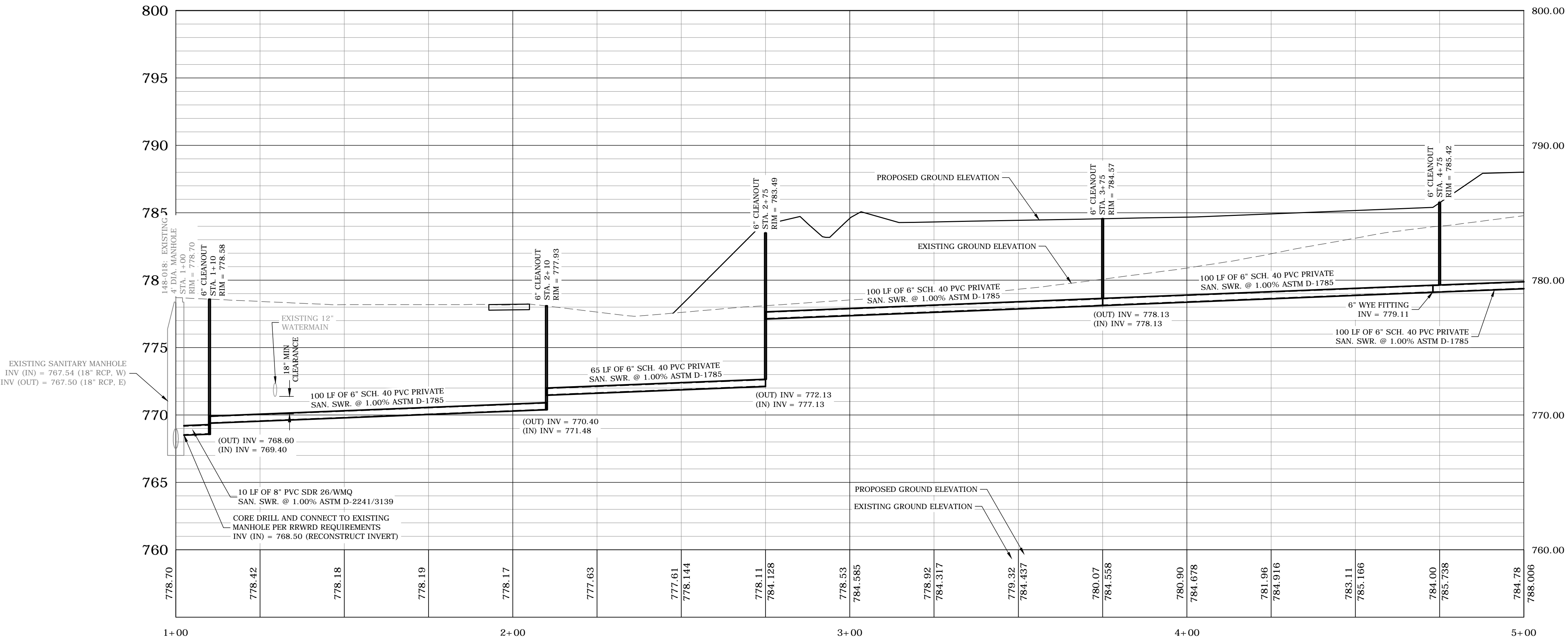
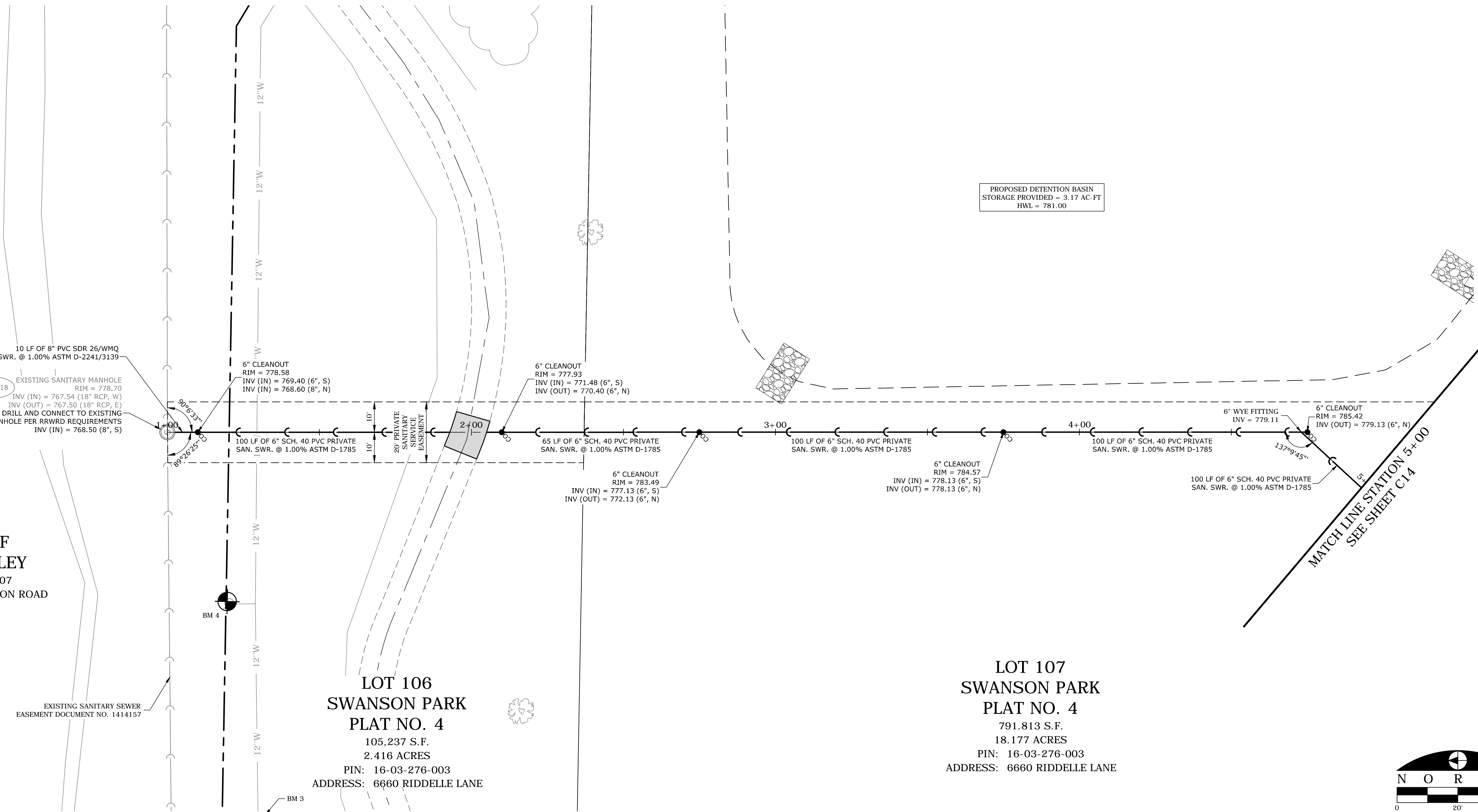
LOT 106
SWANSON PARK
PLAT NO. 4
105,237 S.F.
2.416 ACRES
PIN: 16-03-276-003
ADDRESS: 6660 RIDDELLE LANE

LOT 107
SWANSON PARK
PLAT NO. 4
791,813 S.F.
18.177 ACRES
PIN: 16-03-276-003
ADDRESS: 6660 RIDDELLE LANE

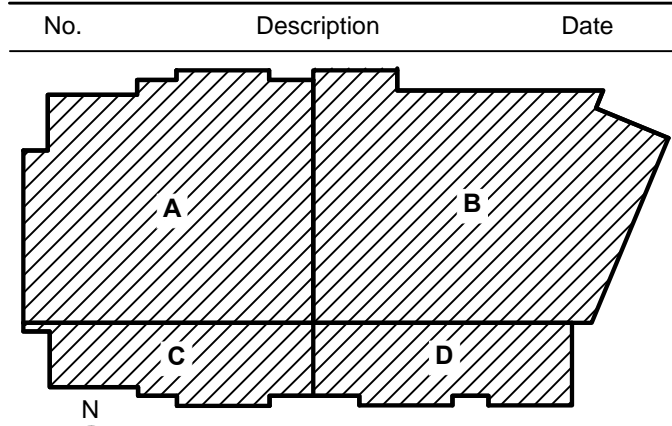


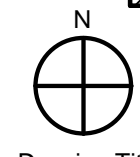
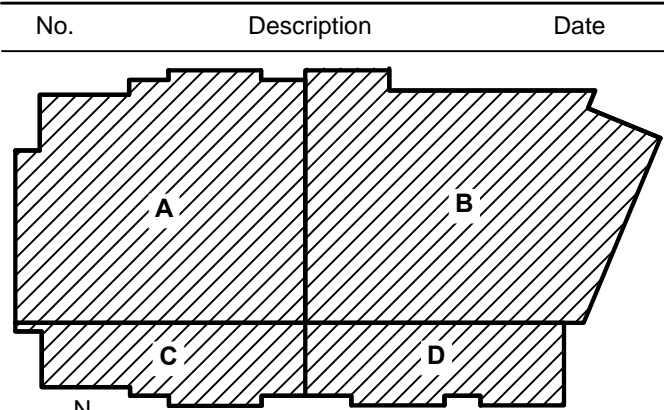
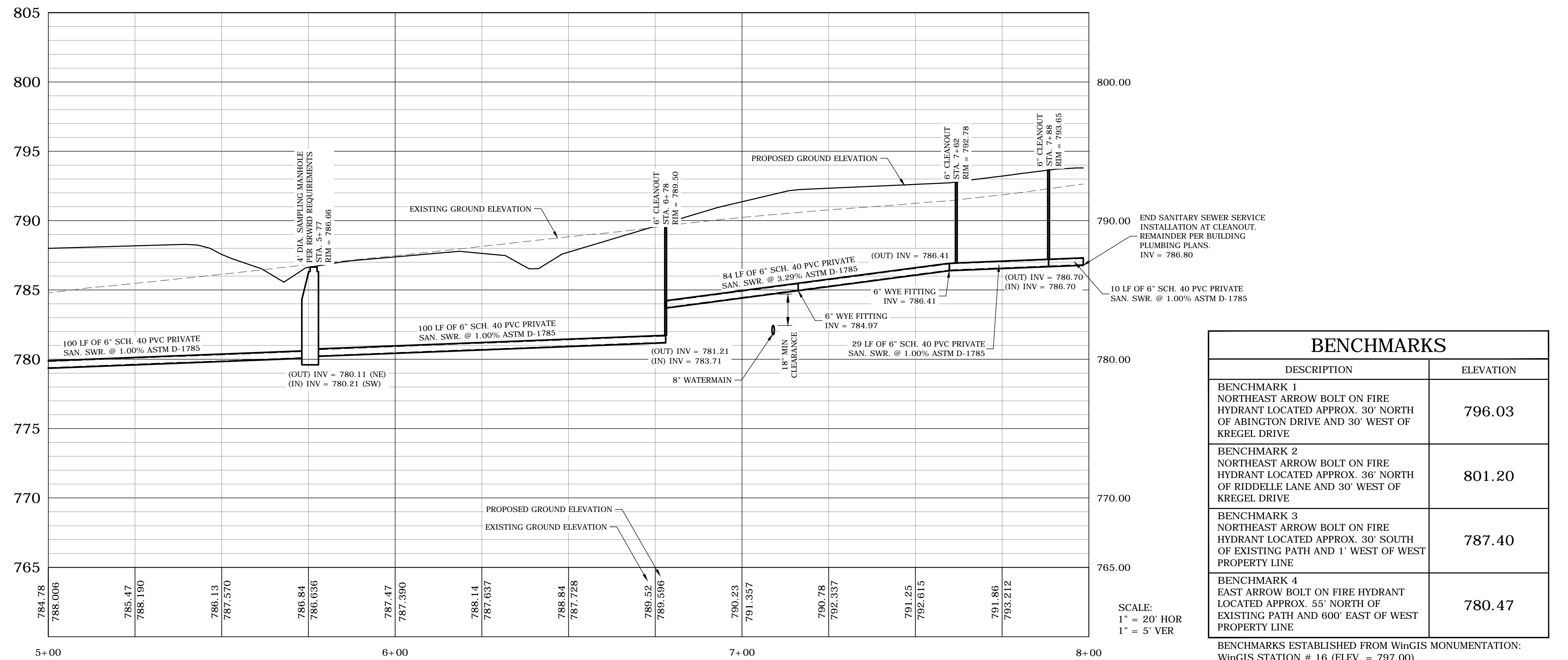
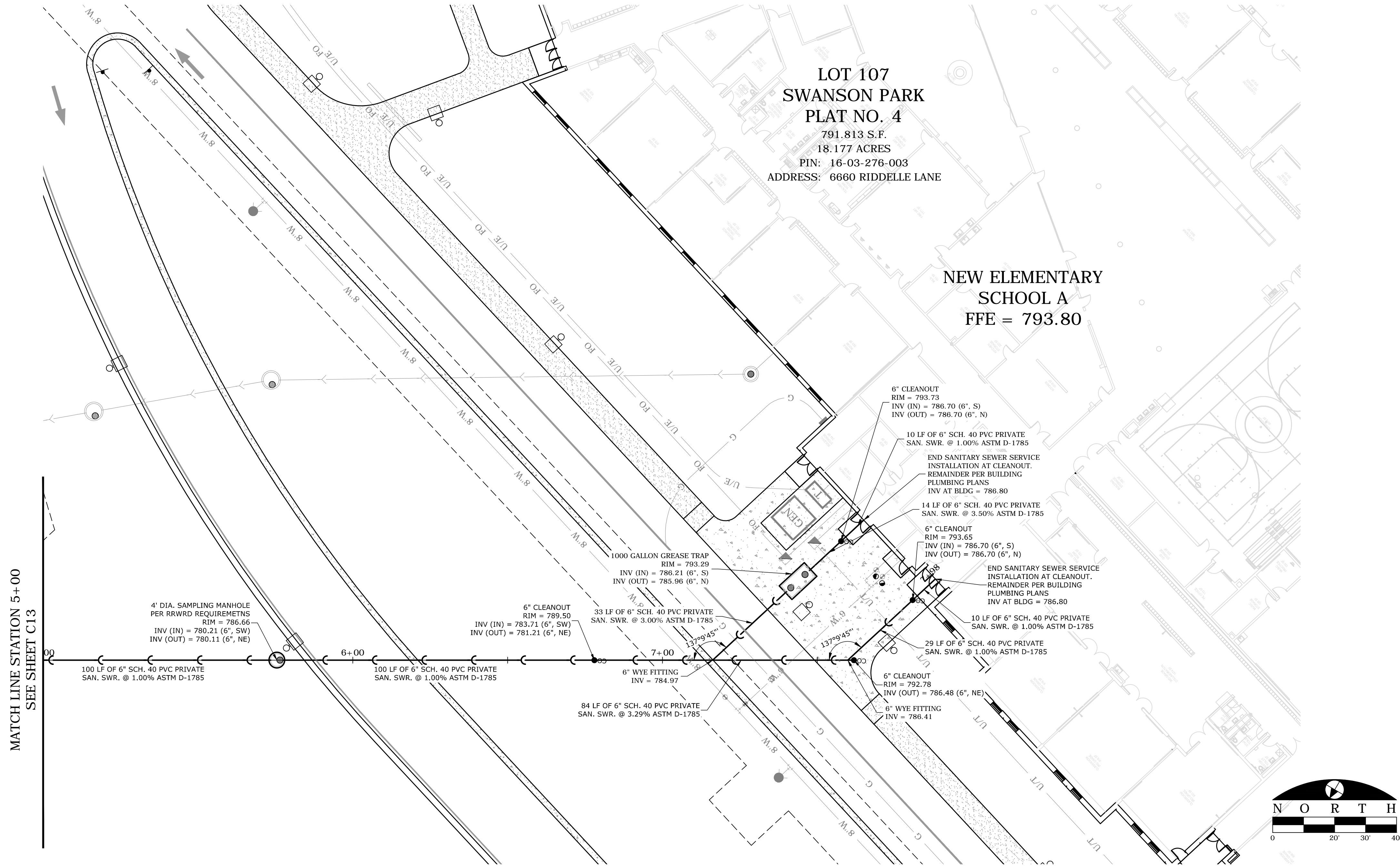
BENCHMARKS	
DESCRIPTION	ELEVATION
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BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 16 (ELEV. = 797.00)

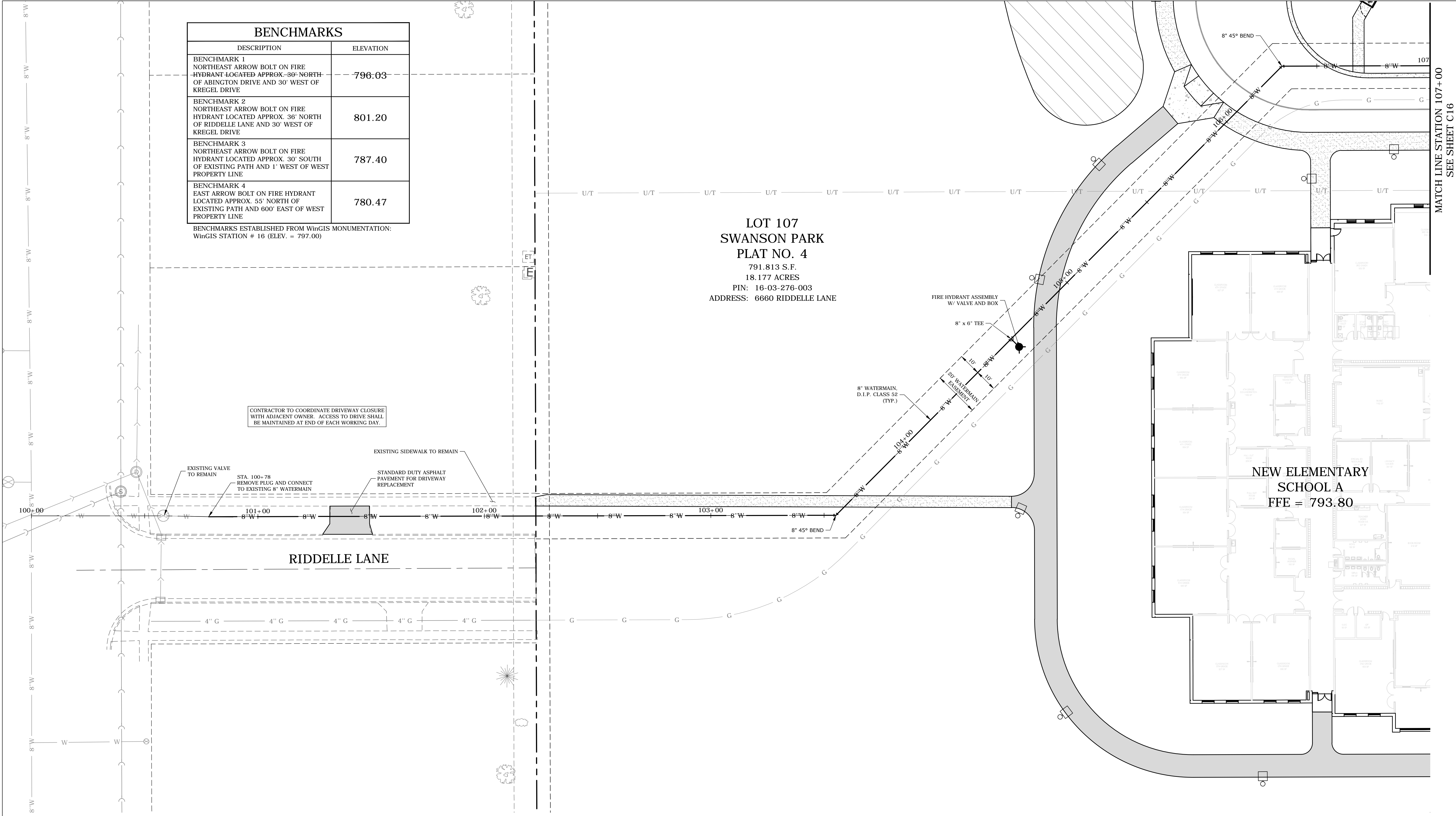


SCALE:
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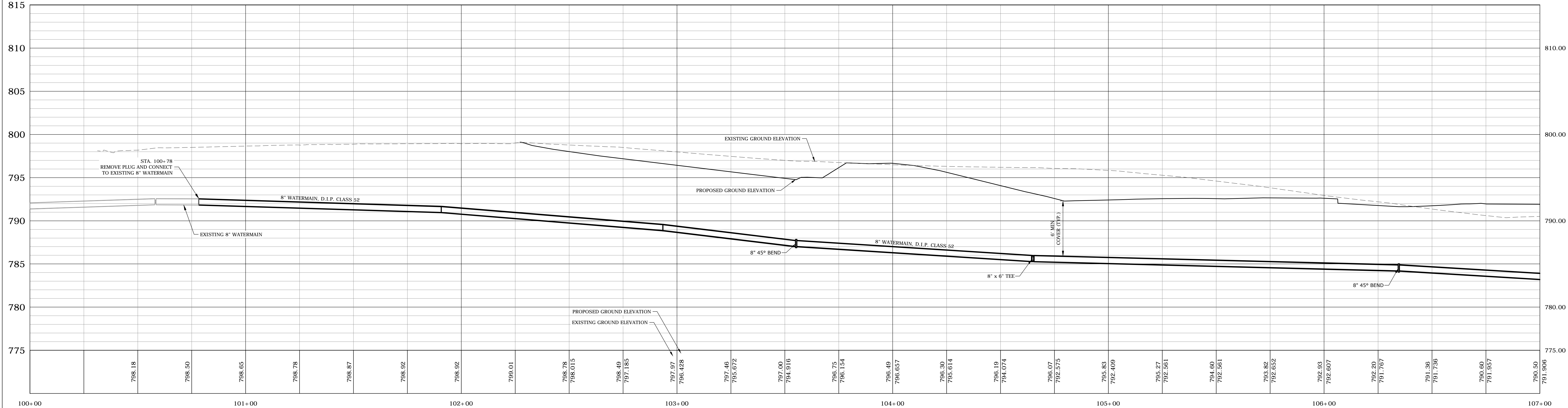
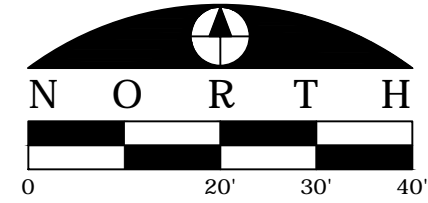
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BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
WinGIS STATION # 16 (ELEV. = 797.00)

CONTRACTOR TO COORDINATE DRIVEWAY CLOSURE WITH ADJACENT OWNER. ACCESS TO DRIVE SHALL BE MAINTAINED AT END OF EACH WORKING DAY.



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(815) 484-4300

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N

KEY PLAN

Drawing Title:

WATERMAIN PLAN AND PROFILE STA. 100+00 - 107+00

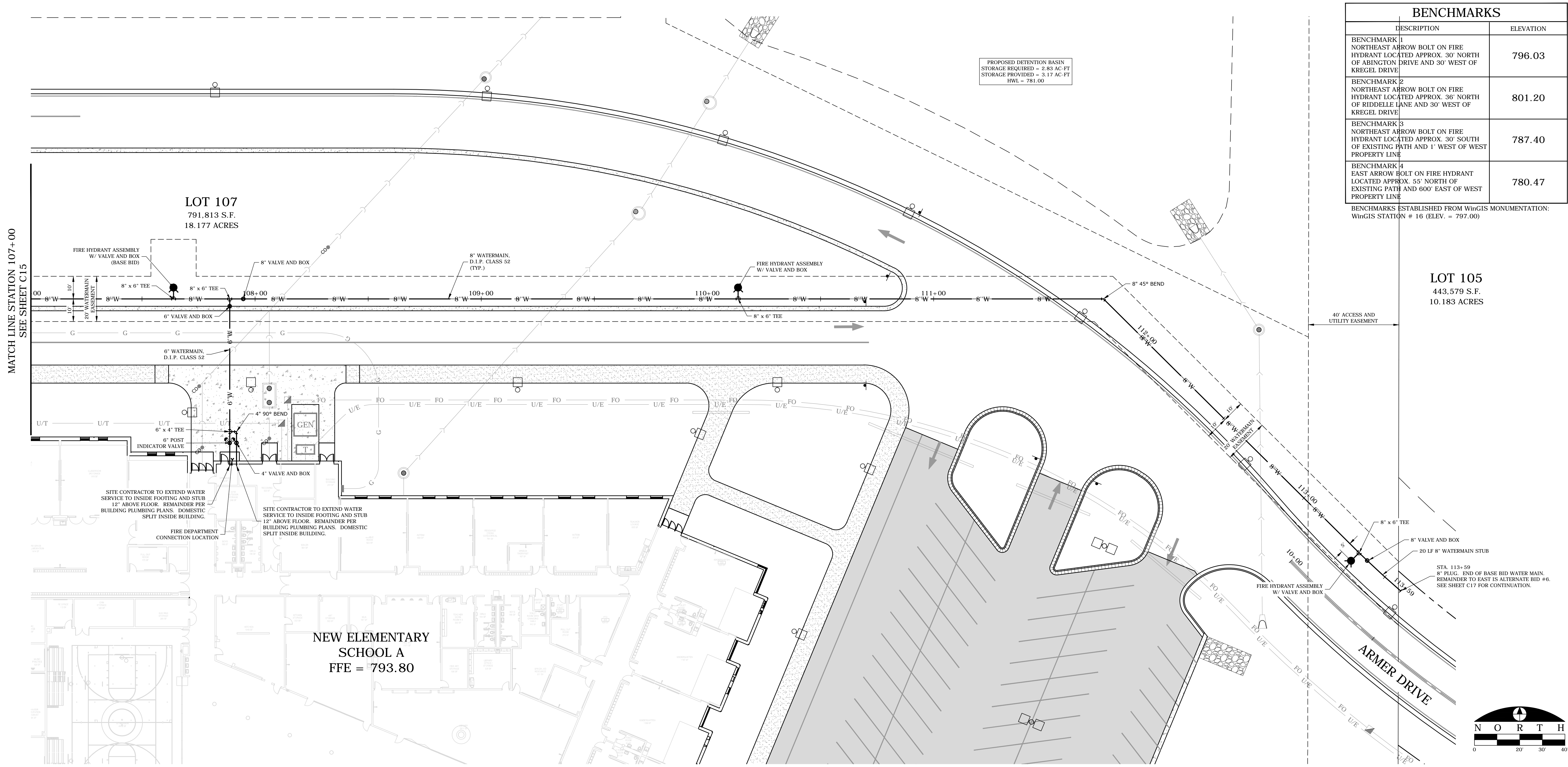
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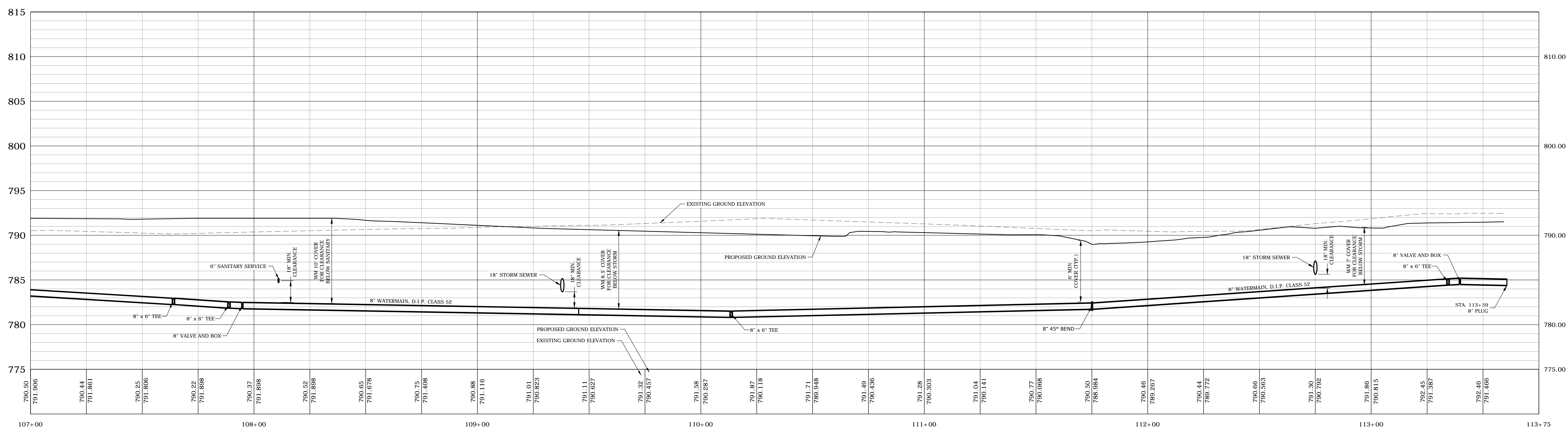
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KEY PLAN

WATERMAIN PLAN AND PROFILE STA. 107+00 - 113+75

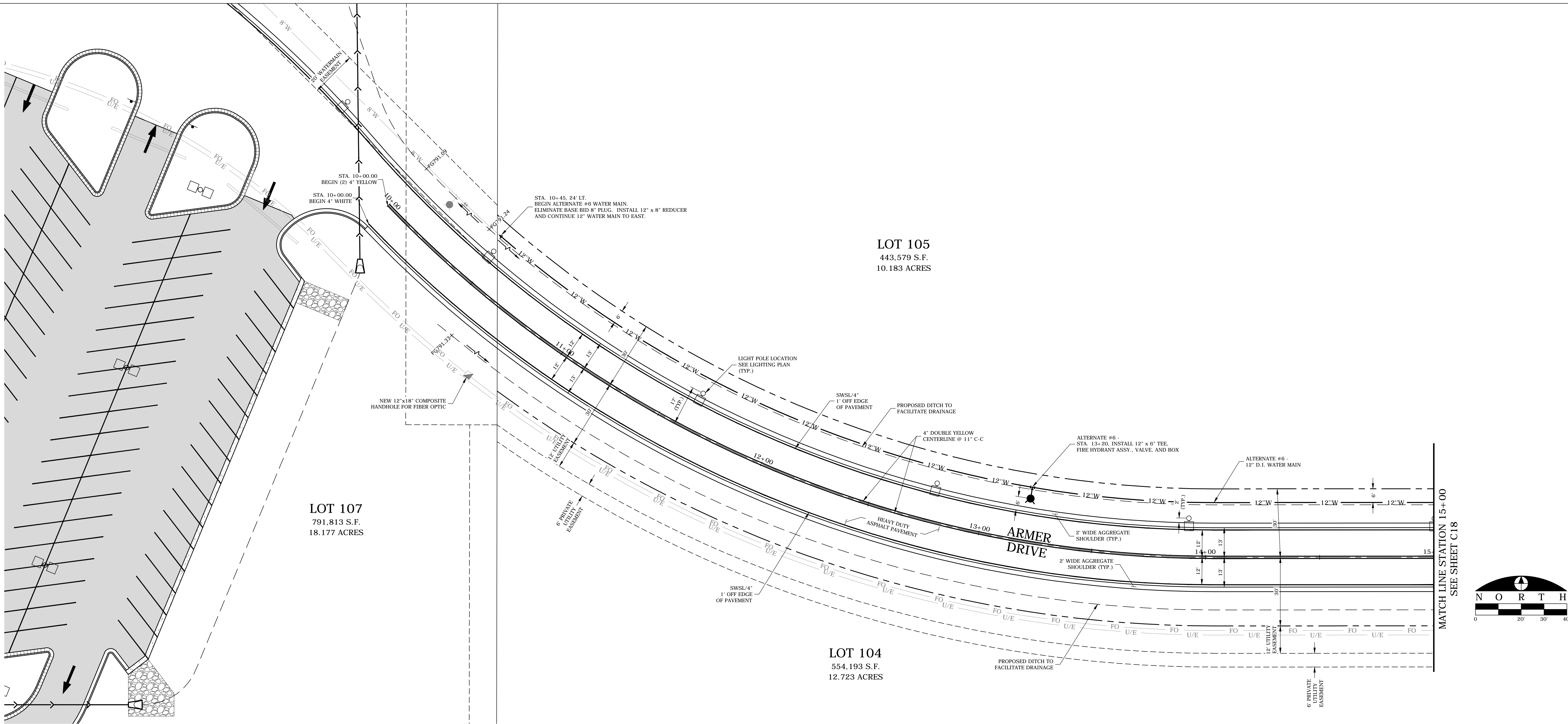
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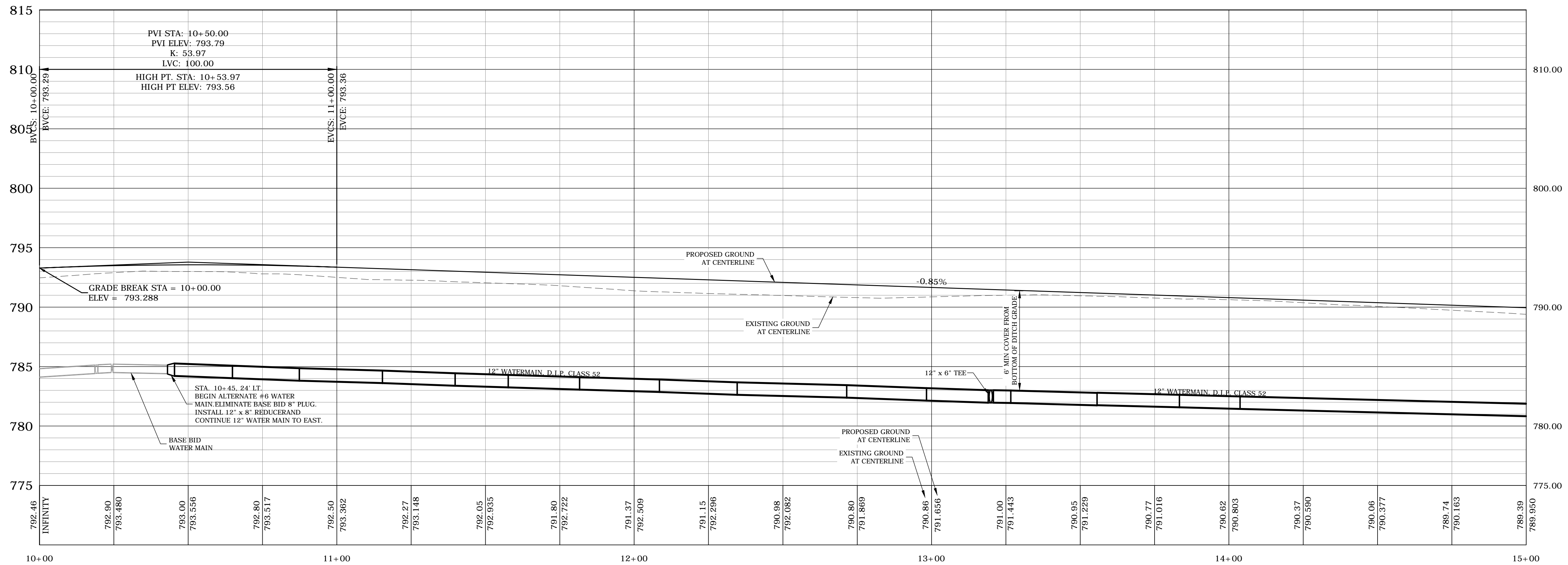
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1" = 5' VER



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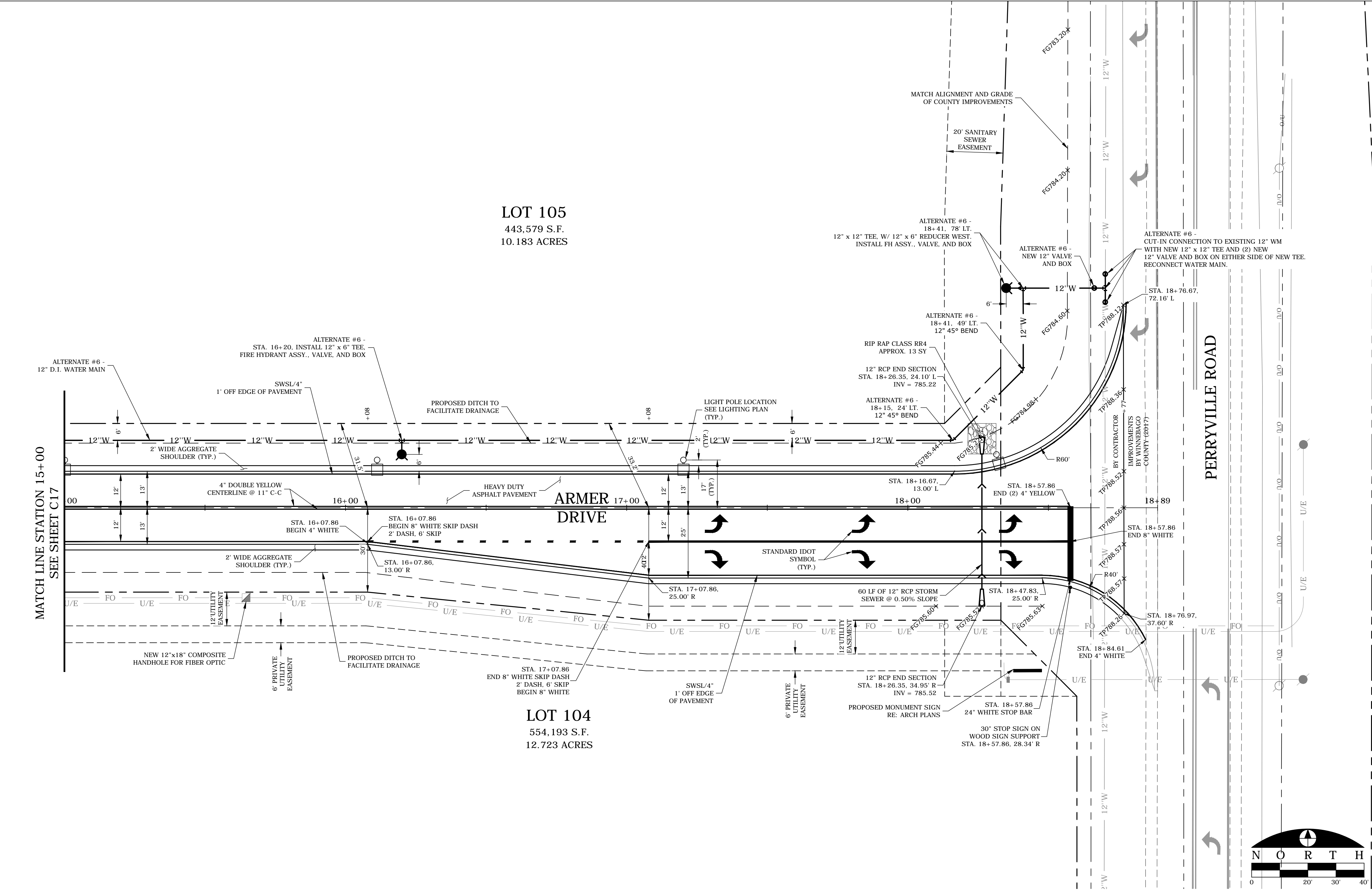
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AND PROFILE STA.
10+00 - 15+00

Project No.: 005005.00 Checked by: JSL

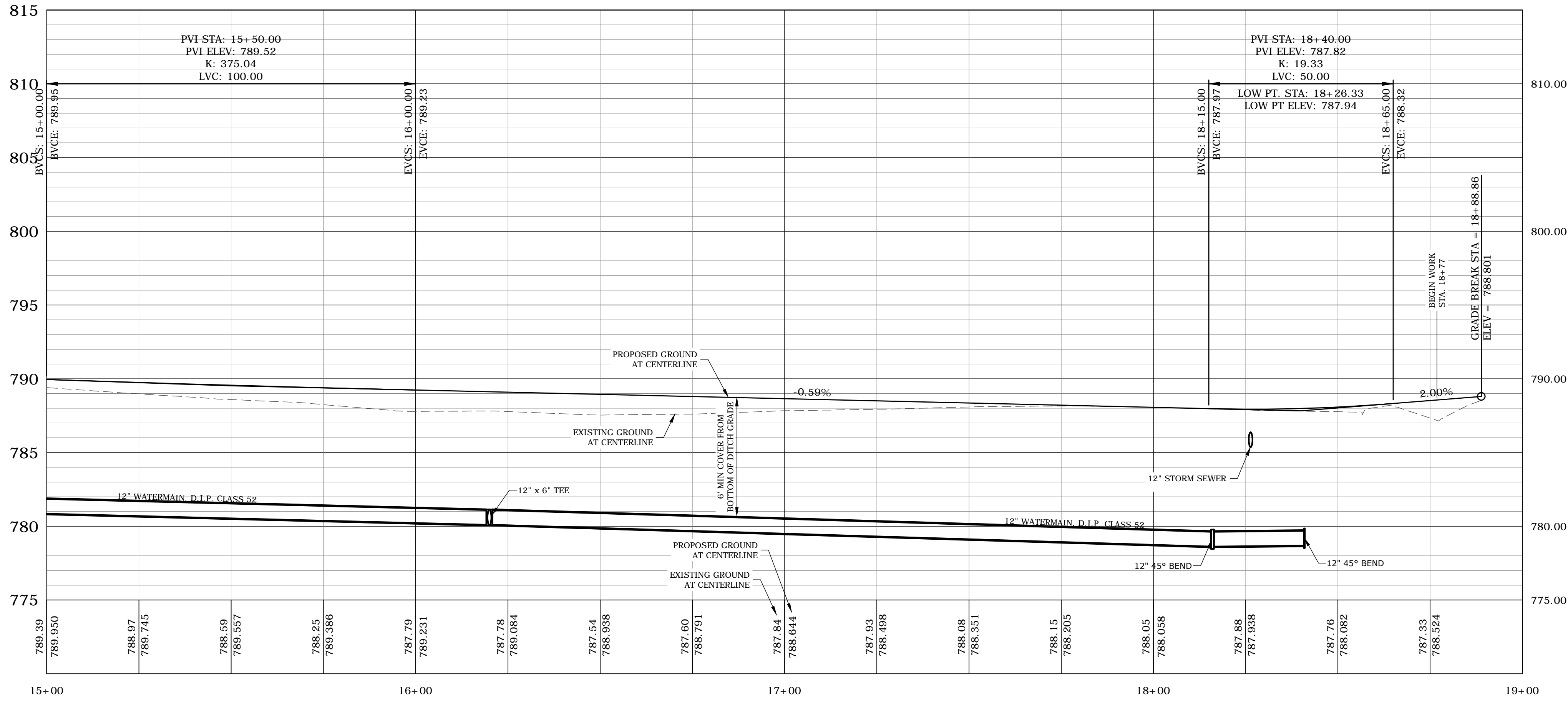
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BENCHMARKS		
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SCALE:
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1" = 5' VER



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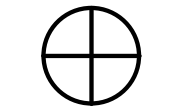
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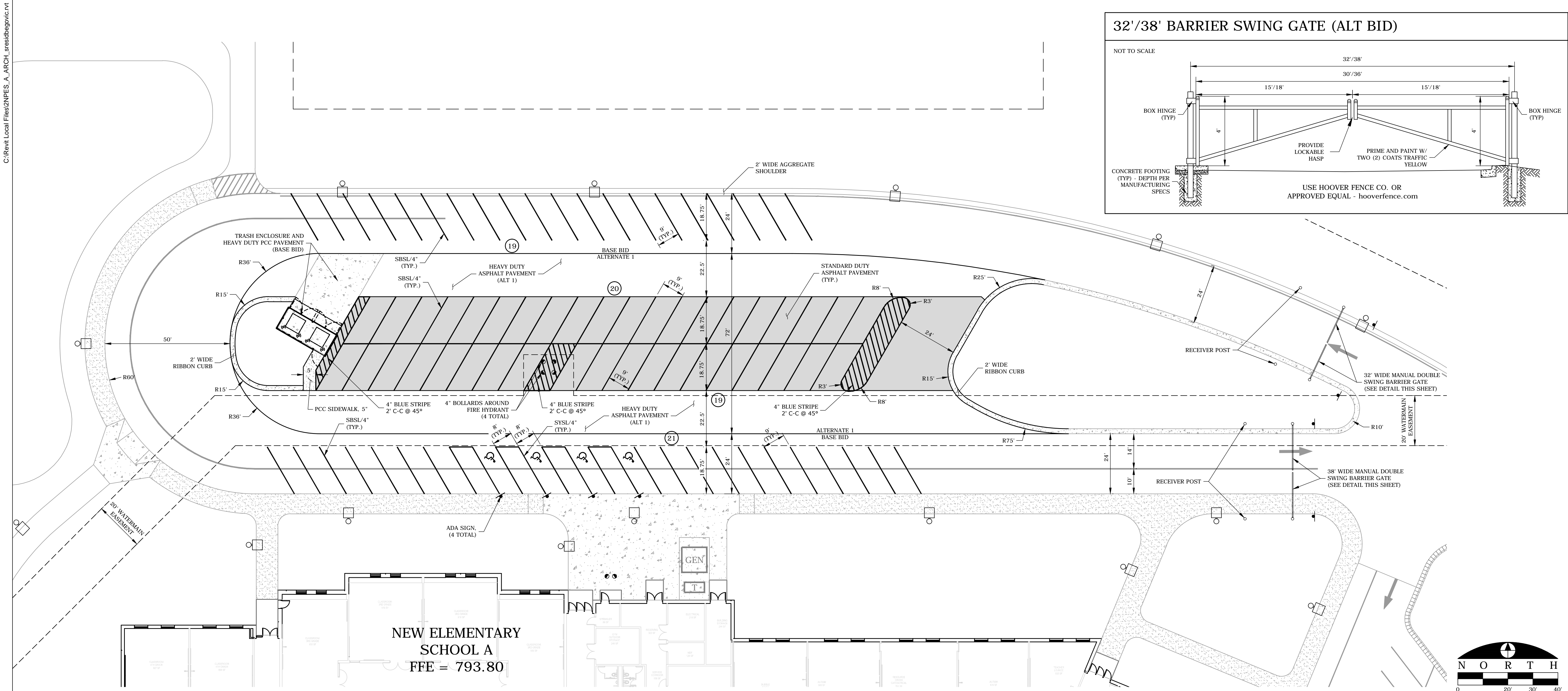
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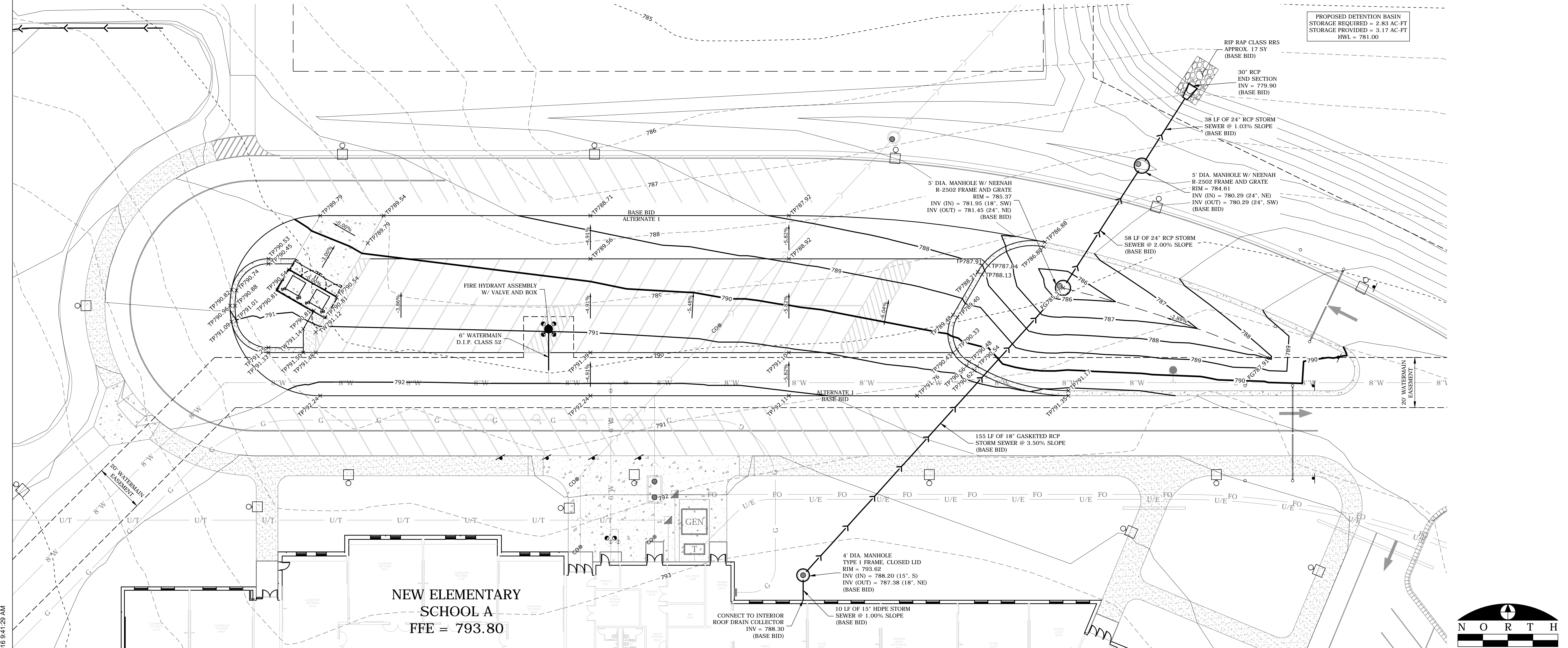
ARMER ROAD PLAN
AND PROFILE STA.
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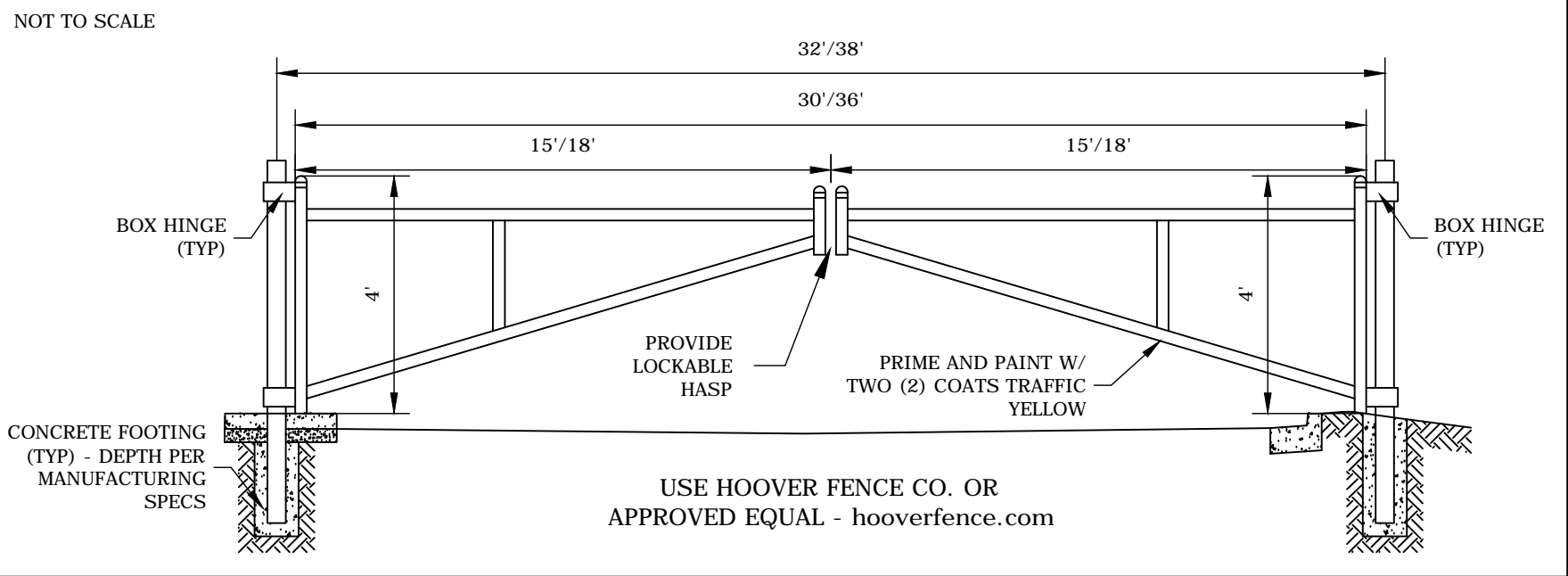


LAYOUT PLAN



GRADING PLAN

32'/38' BARRIER SWING GATE (ALT BID)



LEGEND

- PROPOSED PROPERTY LINE
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- PROPOSED SETBACK LINE
- PROPOSED CENTER LINE
- PROPOSED CURB AND GUTTER
- PROPOSED CURB AND GUTTER (TYP)
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED CONCRETE SIDEWALK
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED PAVEMENT MARKING FOR 60' PARKING STALLS
- PROPOSED PAVEMENT MARKING FOR 90' PARKING STALLS
- PROPOSED A.D.A. COMPLIANT PARKING
- PROPOSED NUMBER OF PARKING STALLS PER ROW
- PROPOSED SIGN AND POST
- PROPOSED BOLLARD
- PROPOSED POLE MOUNTED LUMINAIRE
- PROPOSED ORNAMENTAL POST AND LUMINAIRE
- PARKING BLOCK
- PROPOSED PAVEMENT MARKING, SINGLE YELLOW SOLID LINE, 4' WIDE
- PROPOSED PAVEMENT MARKING, DOUBLE YELLOW SOLID LINE, 4' WIDE
- PROPOSED PAVEMENT MARKING, SINGLE YELLOW DASHED LINE, 4' WIDE
- PROPOSED PAVEMENT MARKING, SINGLE WHITE SOLID LINE, 4' WIDE
- PROPOSED PAVEMENT MARKING, SINGLE BLUE SOLID LINE, 4' WIDE
- PROPOSED PAVEMENT MARKING, SINGLE WHITE SOLID LINE, 24' WIDE
- PROPOSED FENCE

LAYOUT NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
- DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- ALL RADII ARE DIMENSIONED TO THE EDGE OF PAVEMENT.
- SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE CRITERIA ESTABLISHED BY ILDOT.

GRADING NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
- ALL UNSURFACED AREAS ARE TO RECEIVE A MINIMUM FOUR INCHES OF TOPSOIL AND SEEDING AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
- THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 4:1 HORIZONTAL TO 1 VERTICAL.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
- ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
- THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.

SITE DATA TABLE

BASE BID:	
PARKING PROVIDED:	98 SPACES
REQUIRED A.D.A. PARKING:	4 SPACES
PROVIDED A.D.A. PARKING:	4 SPACES
ALTERNATE 1:	
PARKING PROVIDED:	79 SPACES
REQUIRED A.D.A. PARKING:	4 SPACES
PROVIDED A.D.A. PARKING:	4 SPACES
TOTAL PARKING PROVIDED:	177 SPACES

BENCHMARKS	
DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ARINGTON DRIVE AND 30' WEST OF KREGL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDDELLE LANE AND 30' WEST OF KREGL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' WEST OF PROPERTY LINE	780.47
BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION: WinGIS STATION # 16 (ELEV. = 797.00)	



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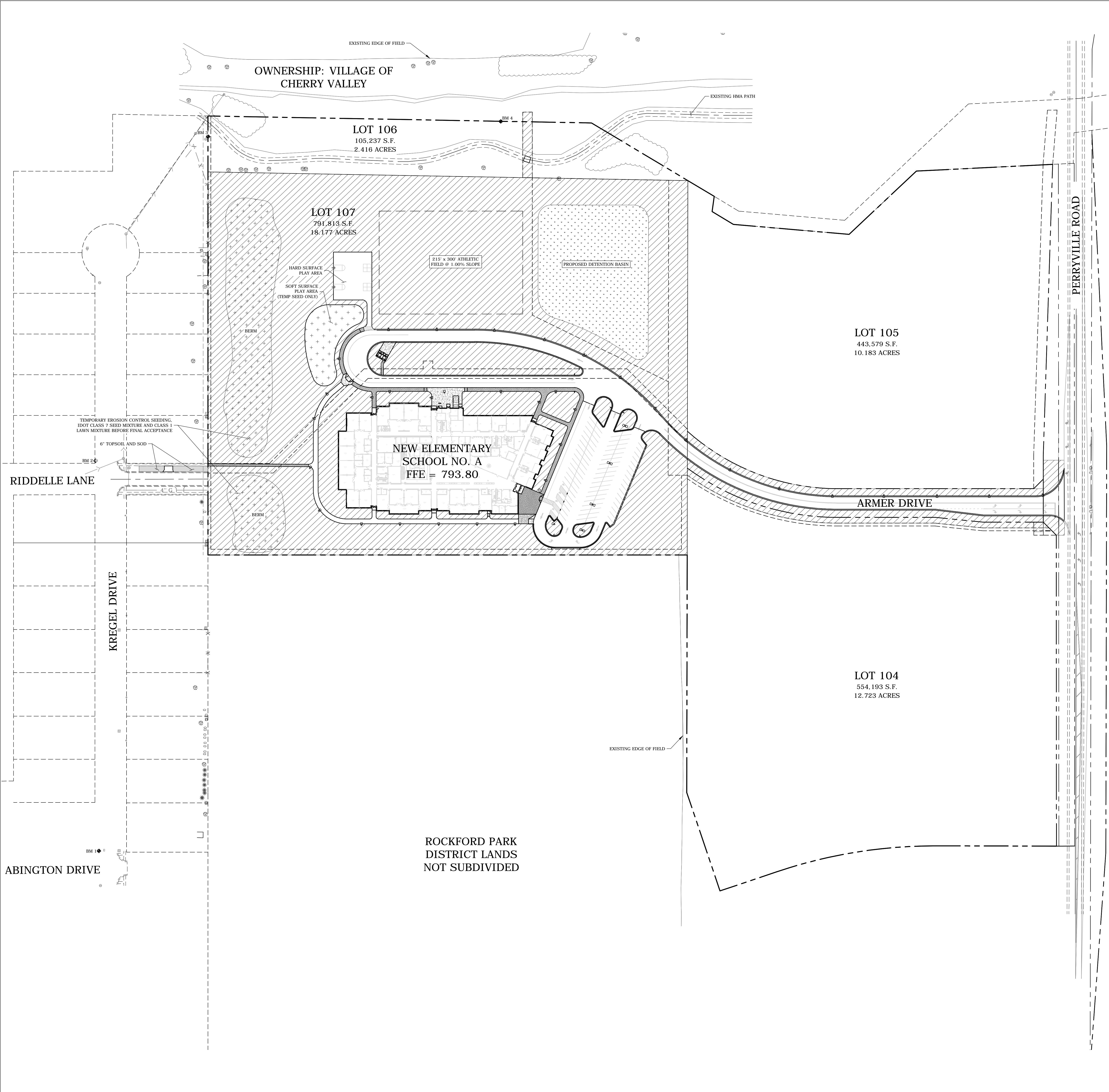
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BUS LOOP PARKING - ALTERNATE 5

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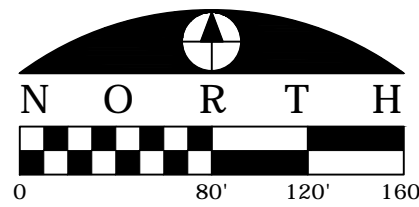
LEGEND

- 6" TOPSOIL AND IDOT CLASS 1 SEED MIXTURE
- 6" TOPSOIL AND IDOT CLASS 4B SEED MIXTURE, DOUBLE APPLICATION
- 6" TOPSOIL AND SOD
- 6" TOPSOIL AND EROSION CONTROL SEEDING, IDOT CLASS 7 SEED MIXTURE

- RESTORATION NOTES**
- THIS PLAN MAY BE SUPERCEDED BY THE FORMAL LANDSCAPE PLAN. ADJUST SEEDING LIMITS AS NECESSARY.
 - RESTORE PARKWAY ALONG RIDDELLE LANE WITH 6" TOPSOIL AND SOD. CONTRACTOR TO WATER FOR 30 DAYS FOLLOWING INSTALLATION.
 - TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED ON SPOILS PILE DURING CONSTRUCTION. CONTRACTOR TO FINAL GRADE BERMS AND RESTORE WITH IDOT CLASS 1 SEED MIXTURE PRIOR TO SUBSTANTIAL COMPLETION.
 - CONTRACTOR TO INCLUDE FERTILIZER FOR SEEDDED AREAS PER IDOT STANDARD SPECIFICATIONS.
 - ALL SEEDDED AREAS TO BE COVERED WITH EROSION CONTROL BLANKET ONCE RESTORED.
 - THESE LIMITS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO RESTORE TO LIMITS OF DISTURBANCE.

BENCHMARKS	
DESCRIPTION	ELEVATION
BENCHMARK 1 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' NORTH OF ABINGTON DRIVE AND 30' WEST OF KREGEL DRIVE	796.03
BENCHMARK 2 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 36' NORTH OF RIDDELLE LANE AND 30' WEST OF KREGEL DRIVE	801.20
BENCHMARK 3 NORTHEAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 30' SOUTH OF EXISTING PATH AND 1' WEST OF WEST PROPERTY LINE	787.40
BENCHMARK 4 EAST ARROW BOLT ON FIRE HYDRANT LOCATED APPROX. 55' NORTH OF EXISTING PATH AND 600' EAST OF WEST PROPERTY LINE	780.47

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION:
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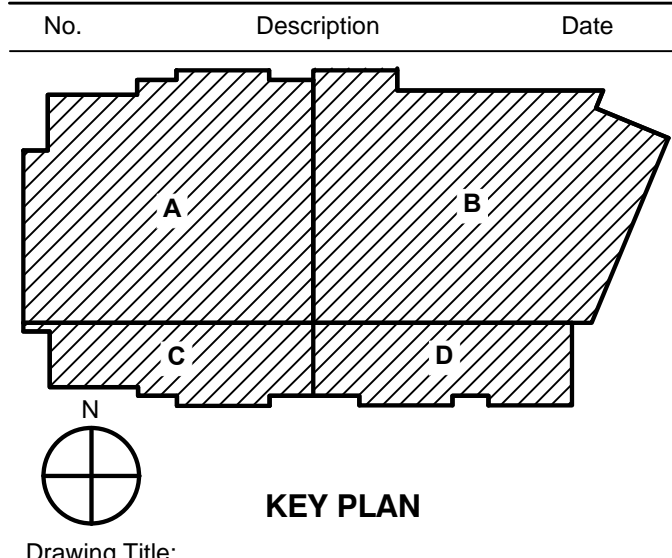
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RESTORATION PLAN

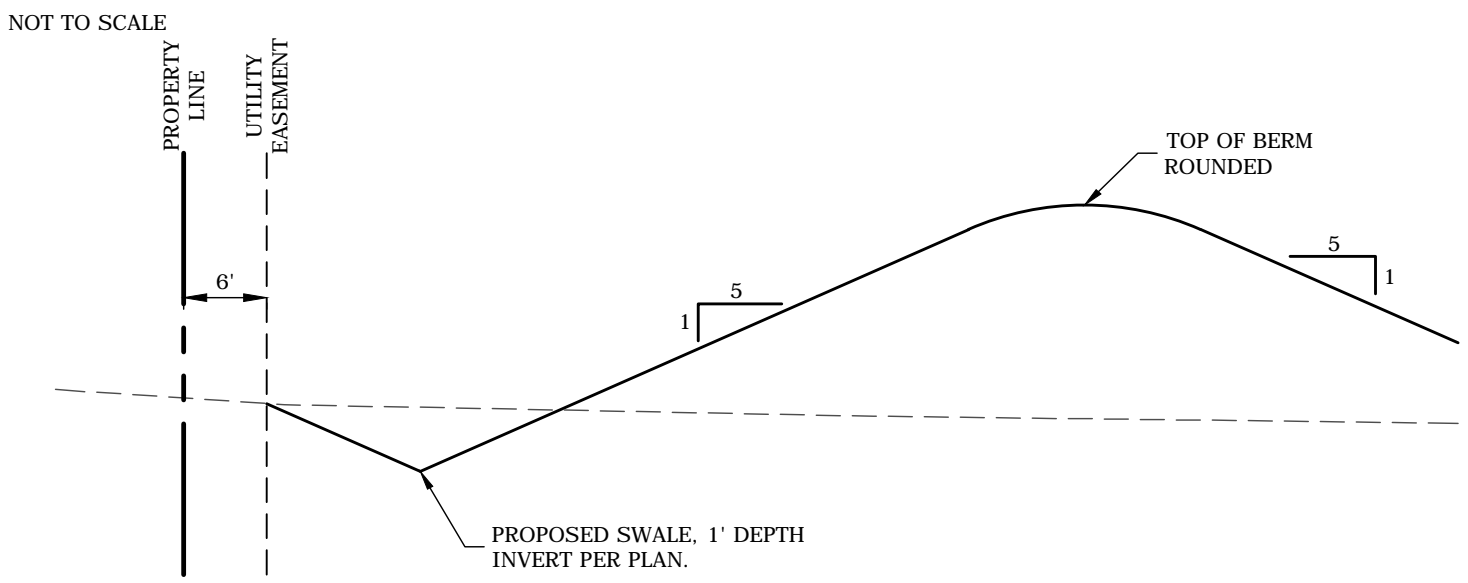
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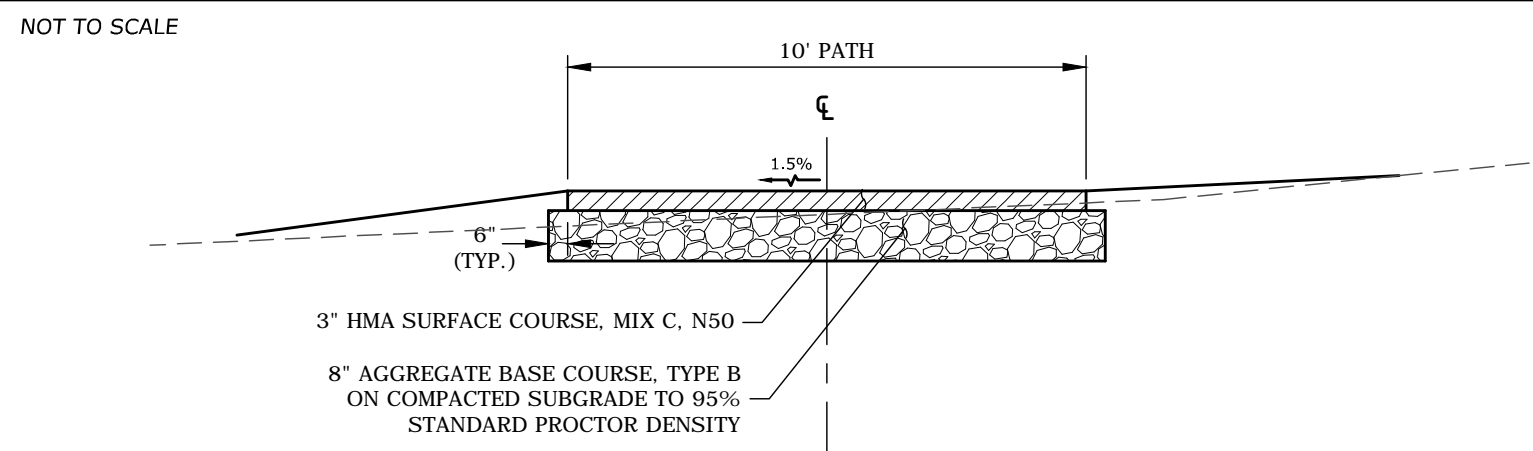
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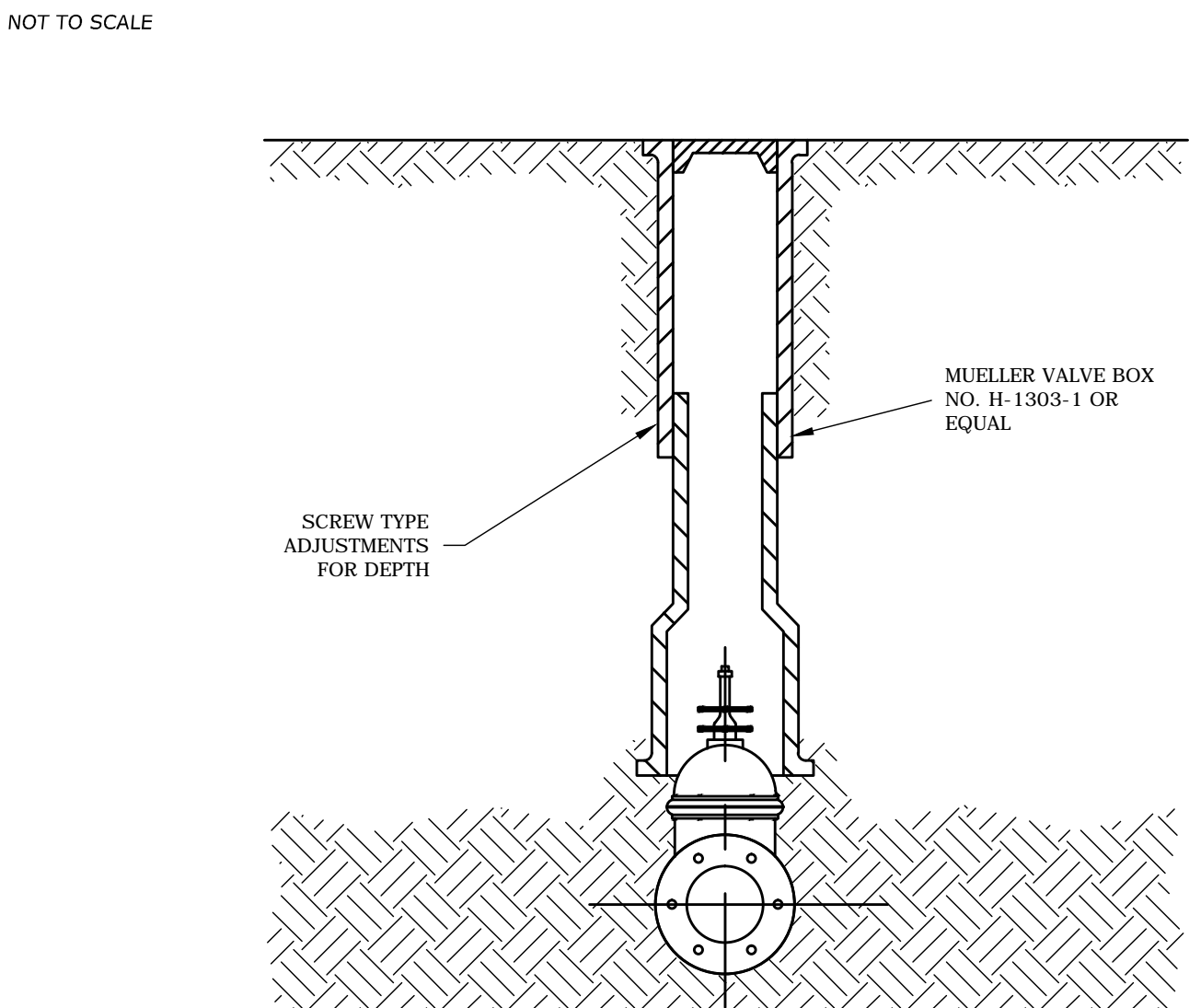
SECTION AT WEST LANDSCAPE BERMS (B-B)



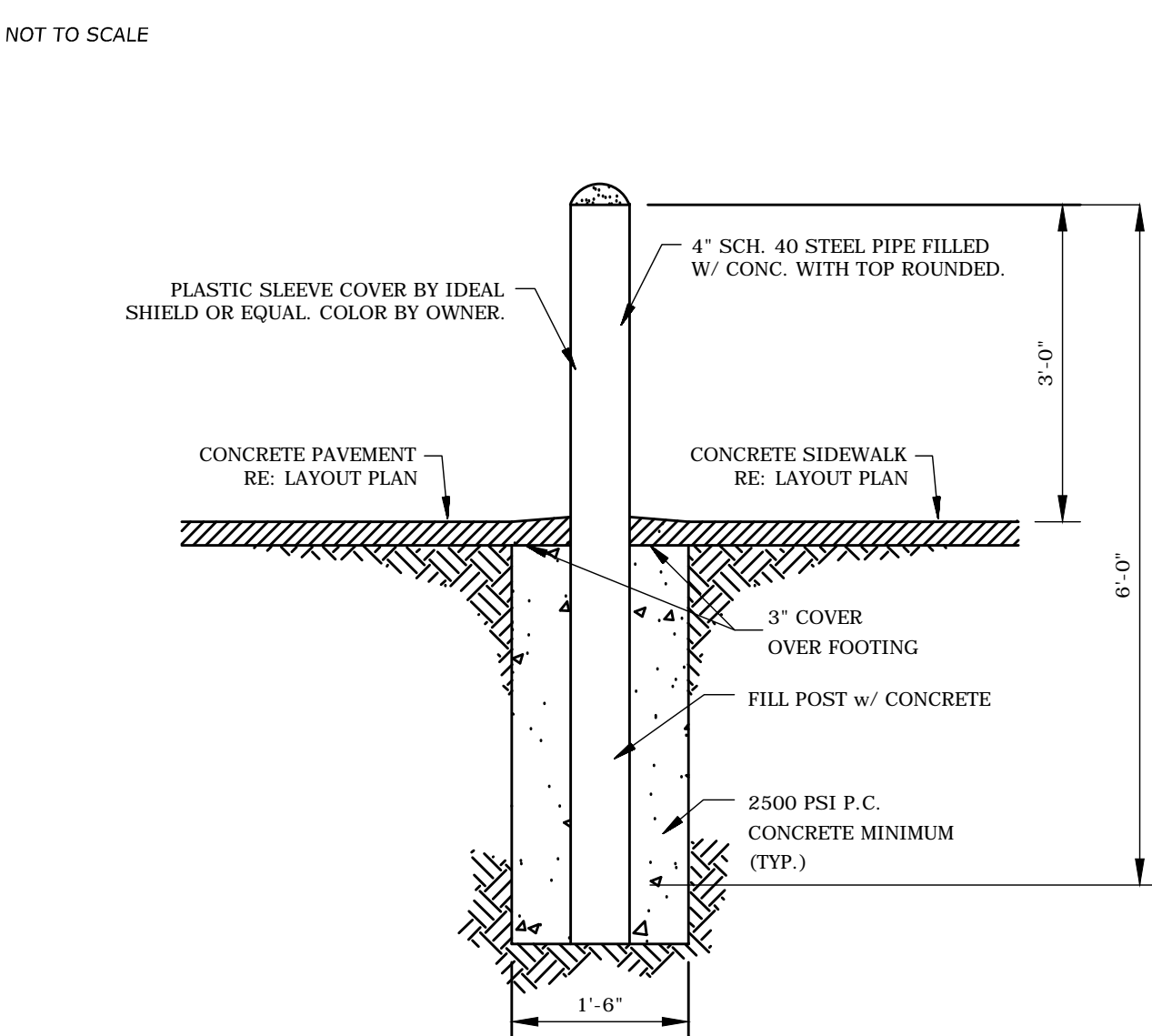
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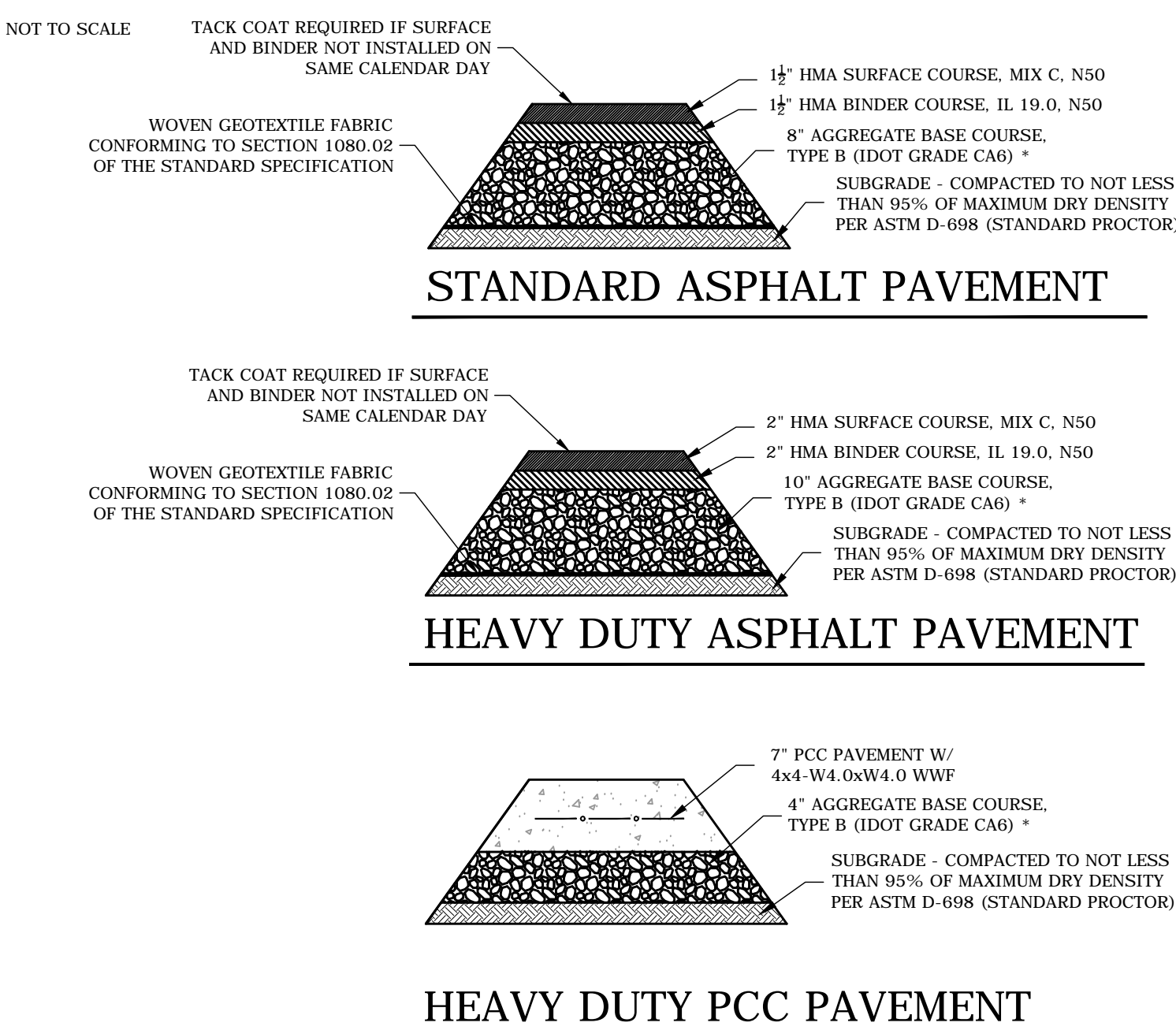
VALVE BOX DETAIL



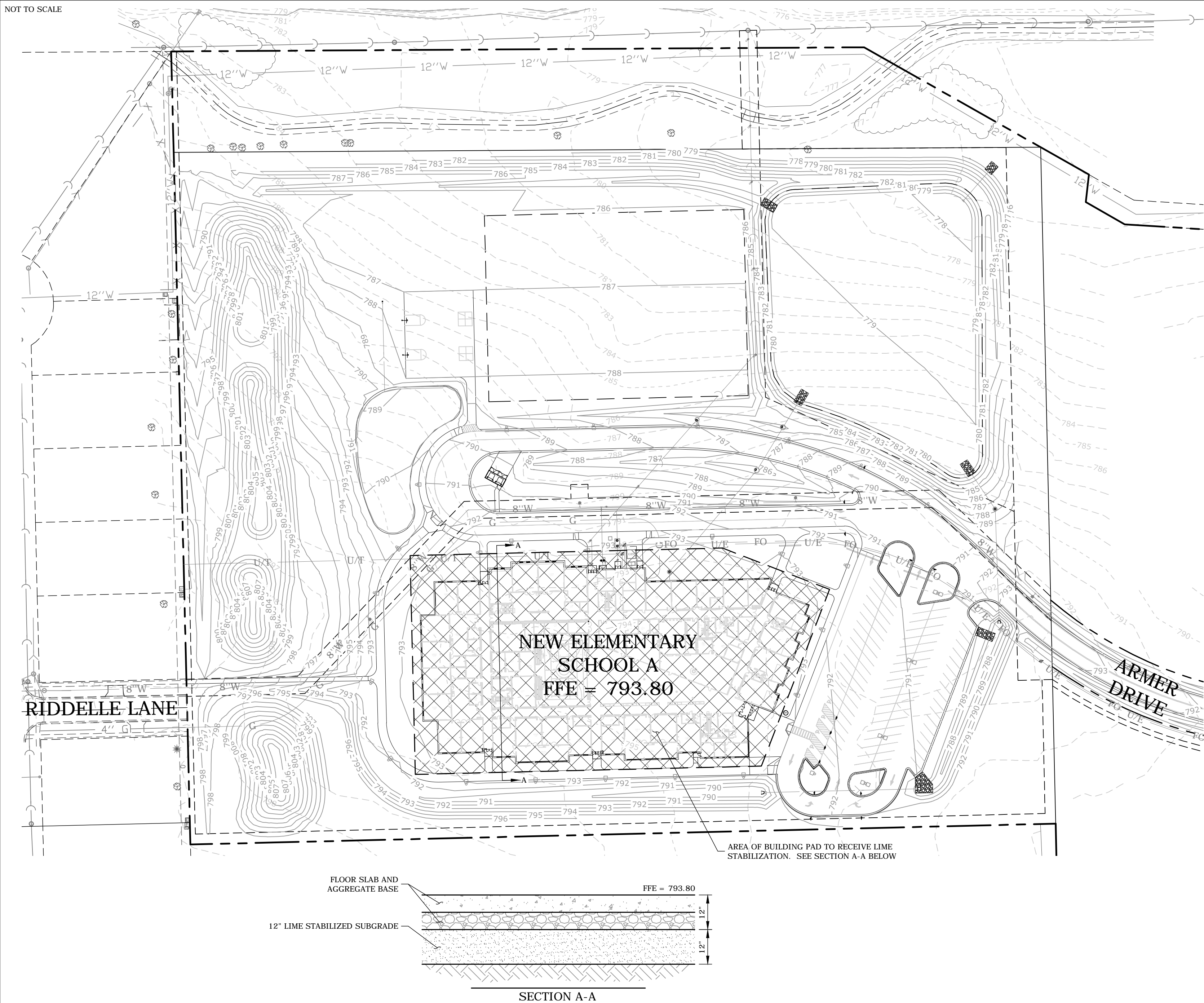
STANDARD BOLLARD DETAIL



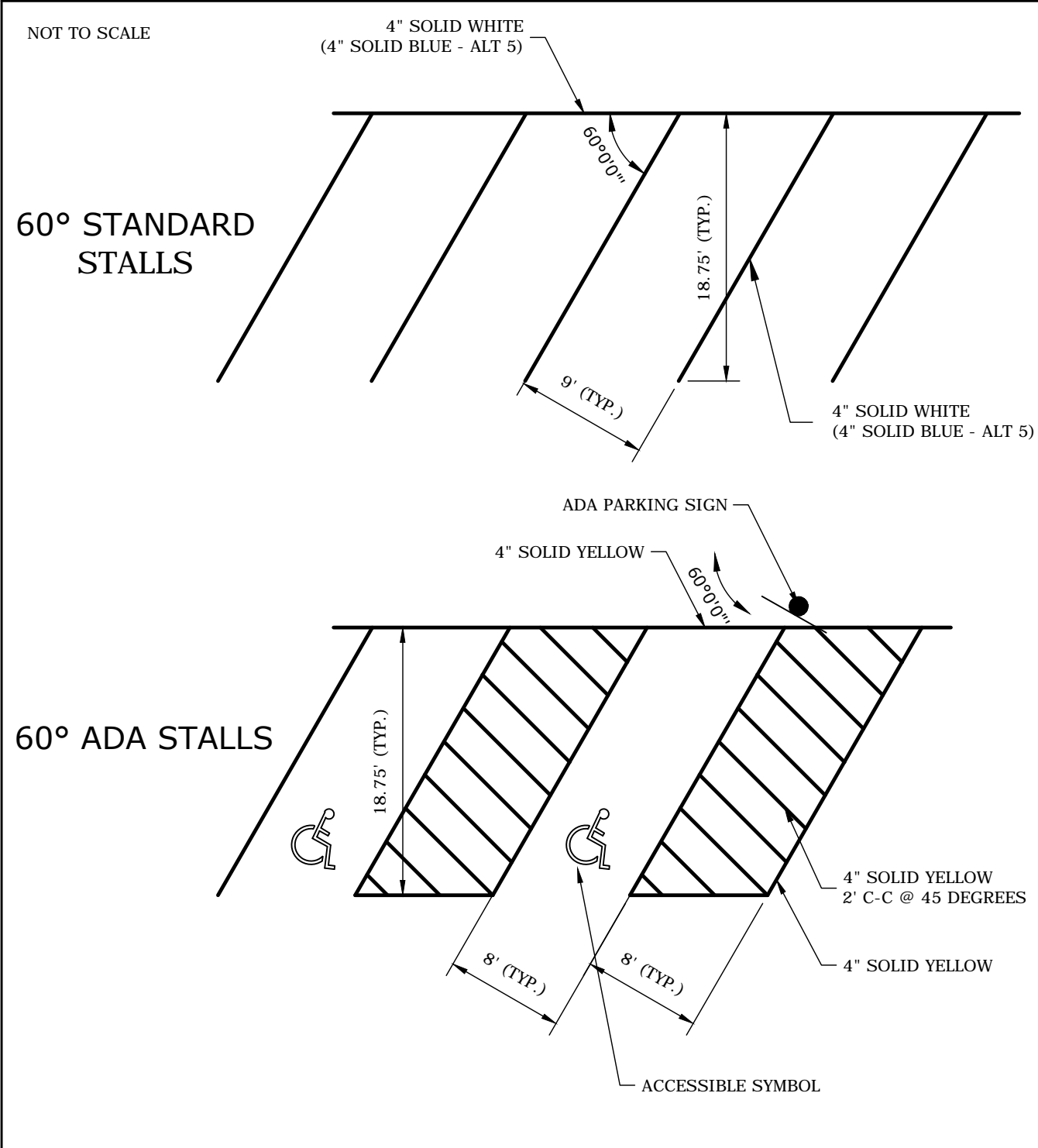
PAVEMENT DETAILS



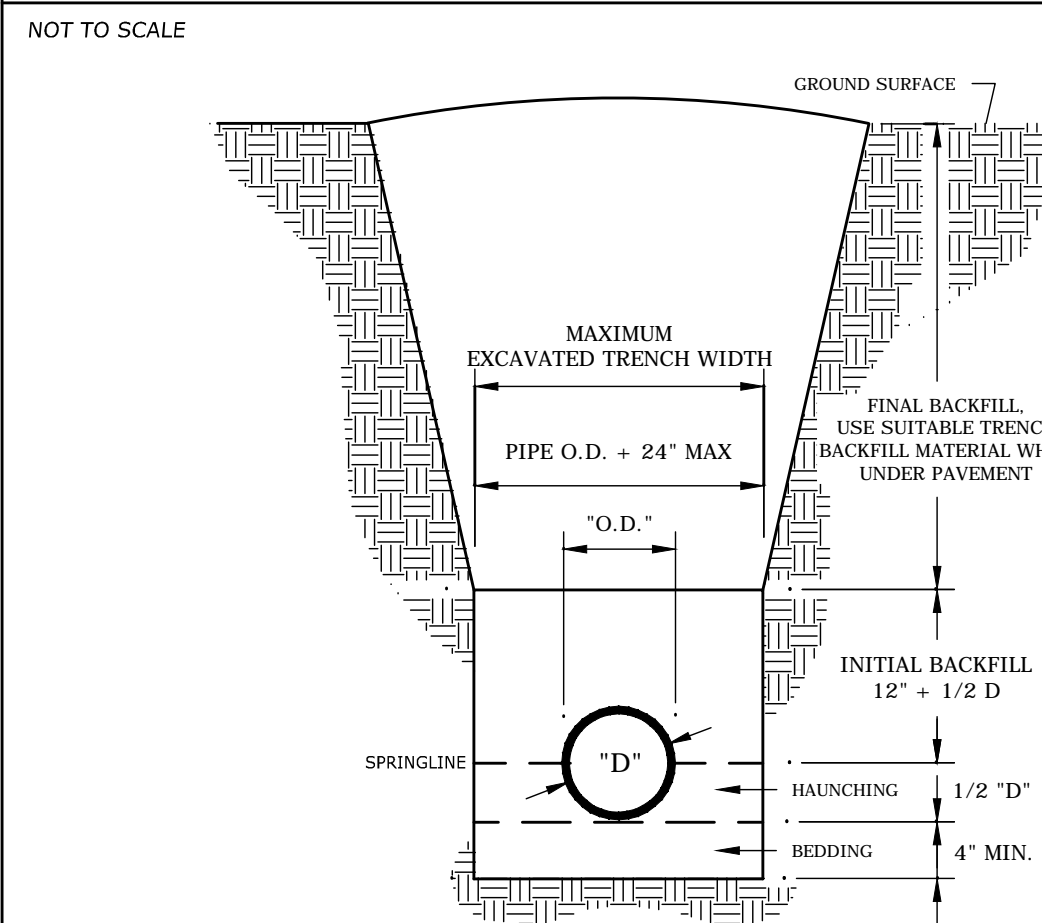
LIME STABILIZATION PLAN



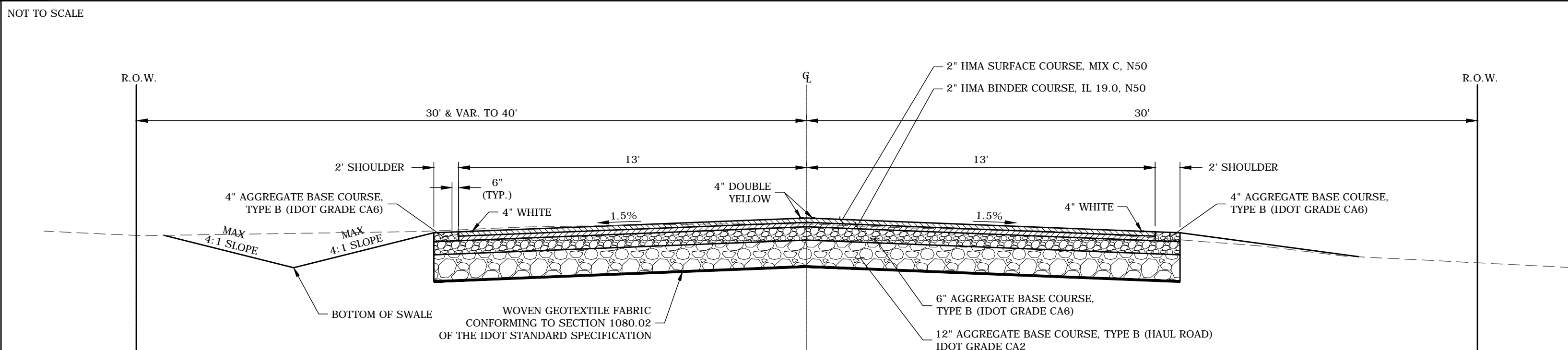
TYPICAL 60 DEGREE PARKING STRIPING DETAILS



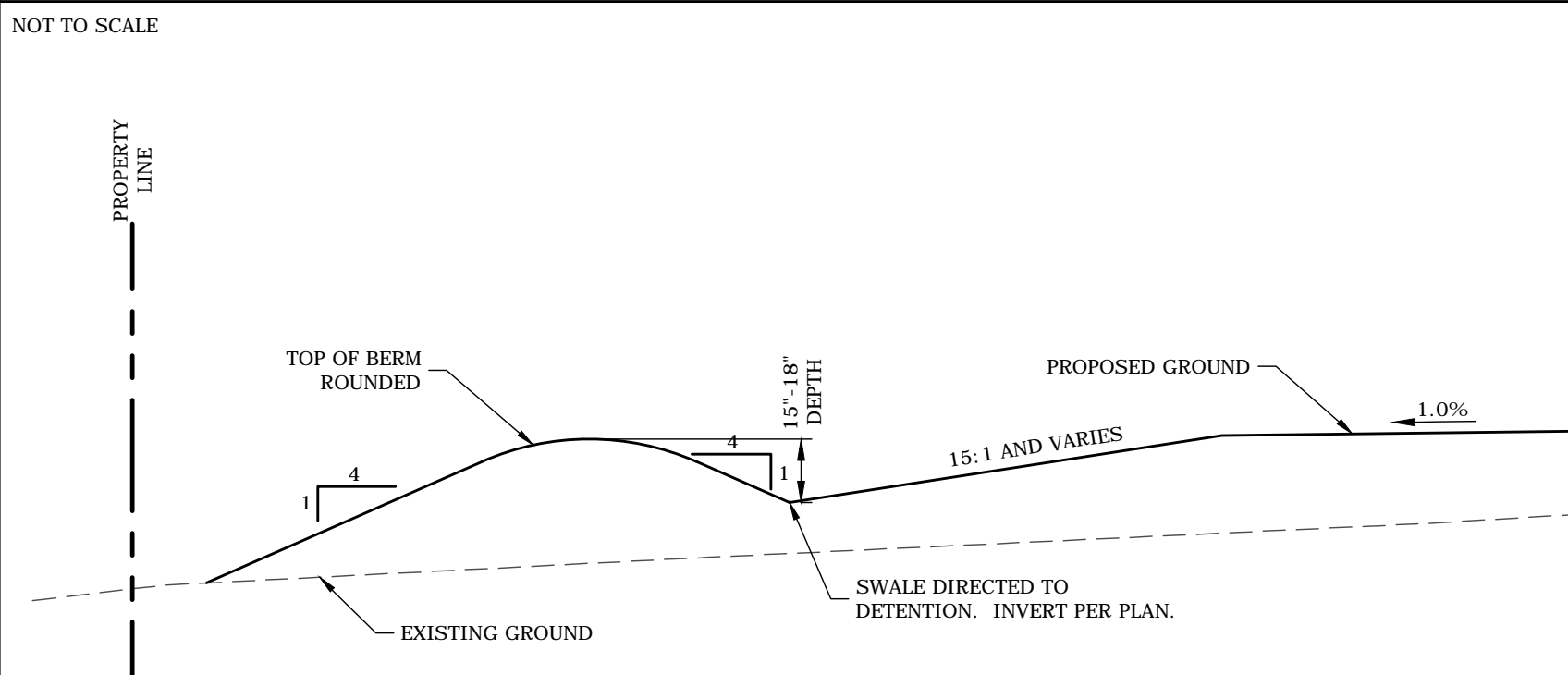
PIPE EMBEDMENT



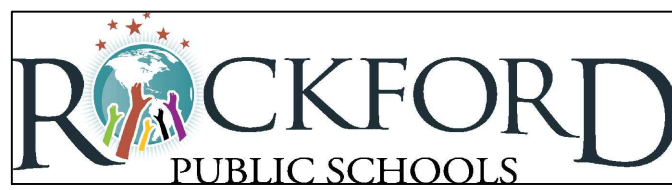
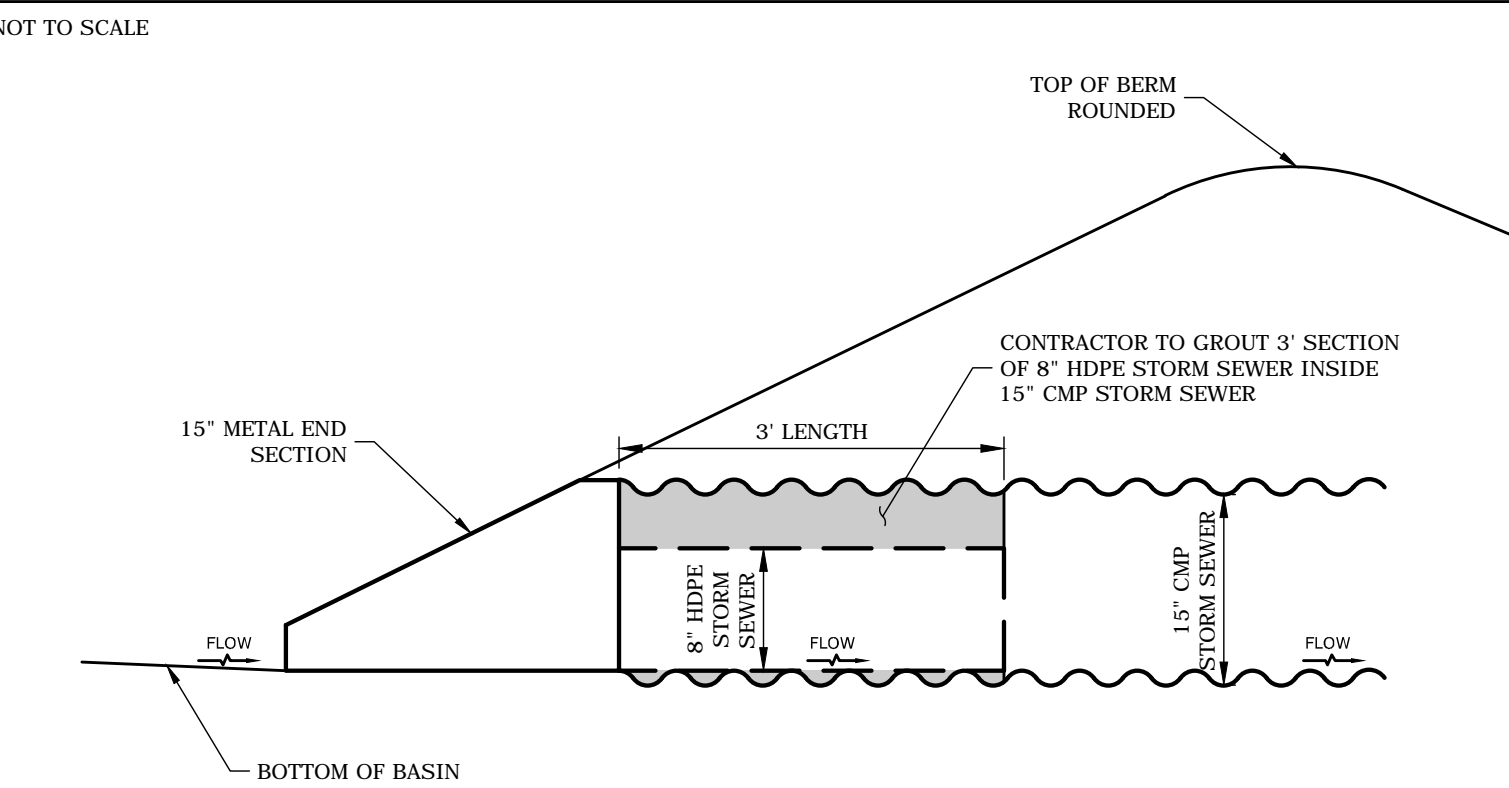
TYPICAL SECTION ACCESS ROAD



ATHLETIC FIELD SECTION AT NORTH PROPERTY LINE (A-A)



OUTLET PIPE FOR DETENTION BASIN



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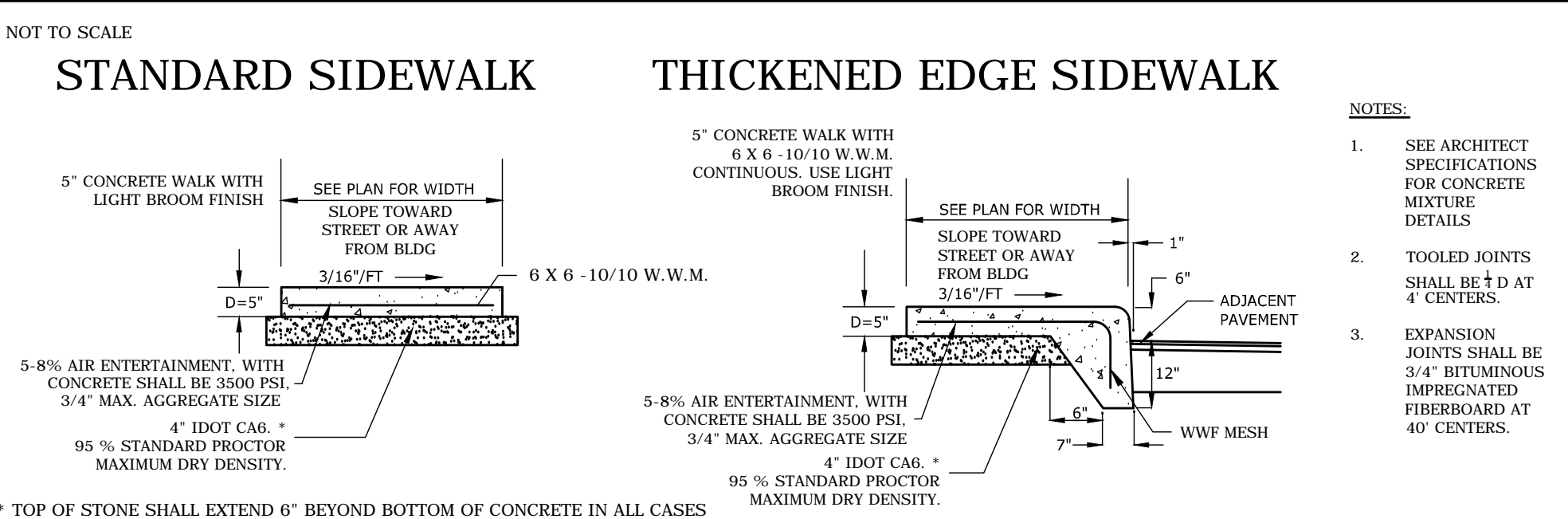
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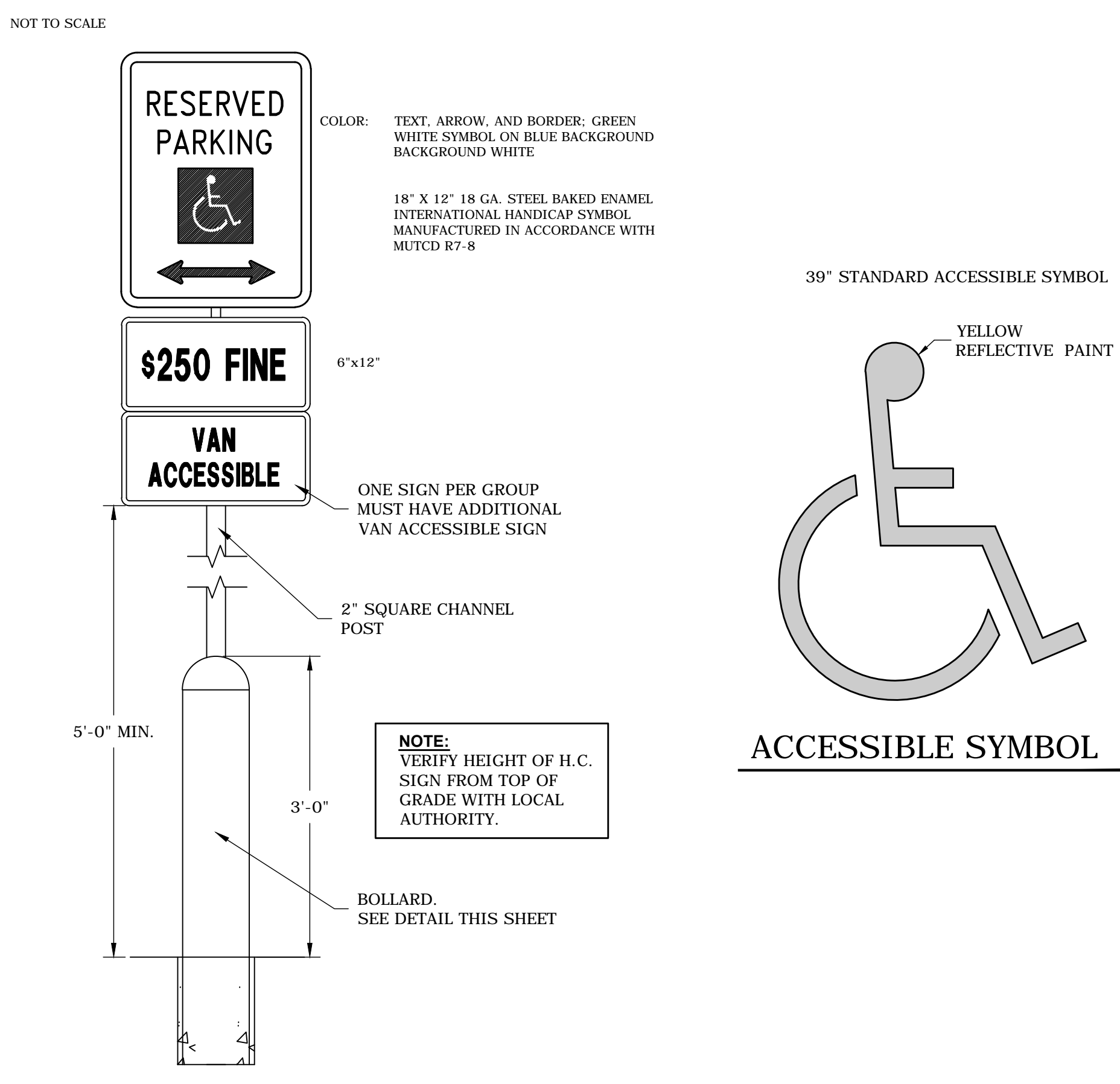
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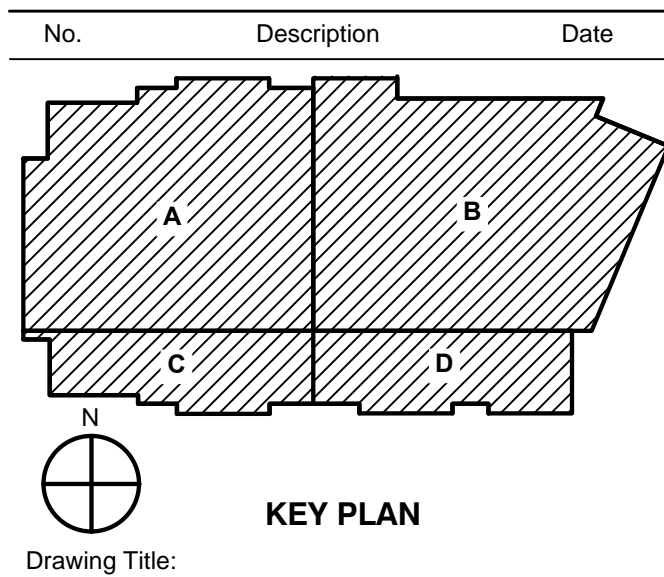
CONCRETE SIDEWALK DETAILS



ACCESSIBLE PARKING SIGN DETAIL



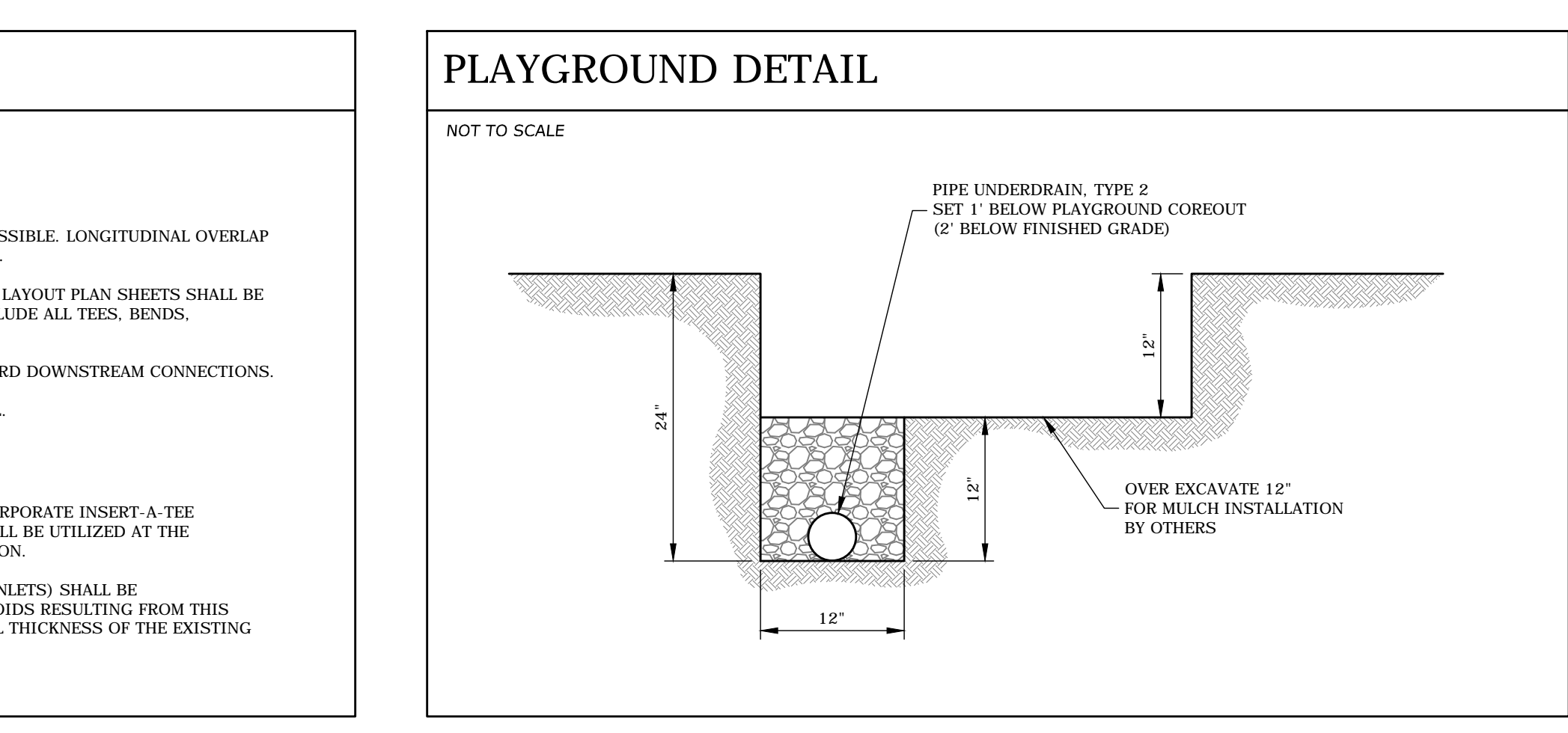
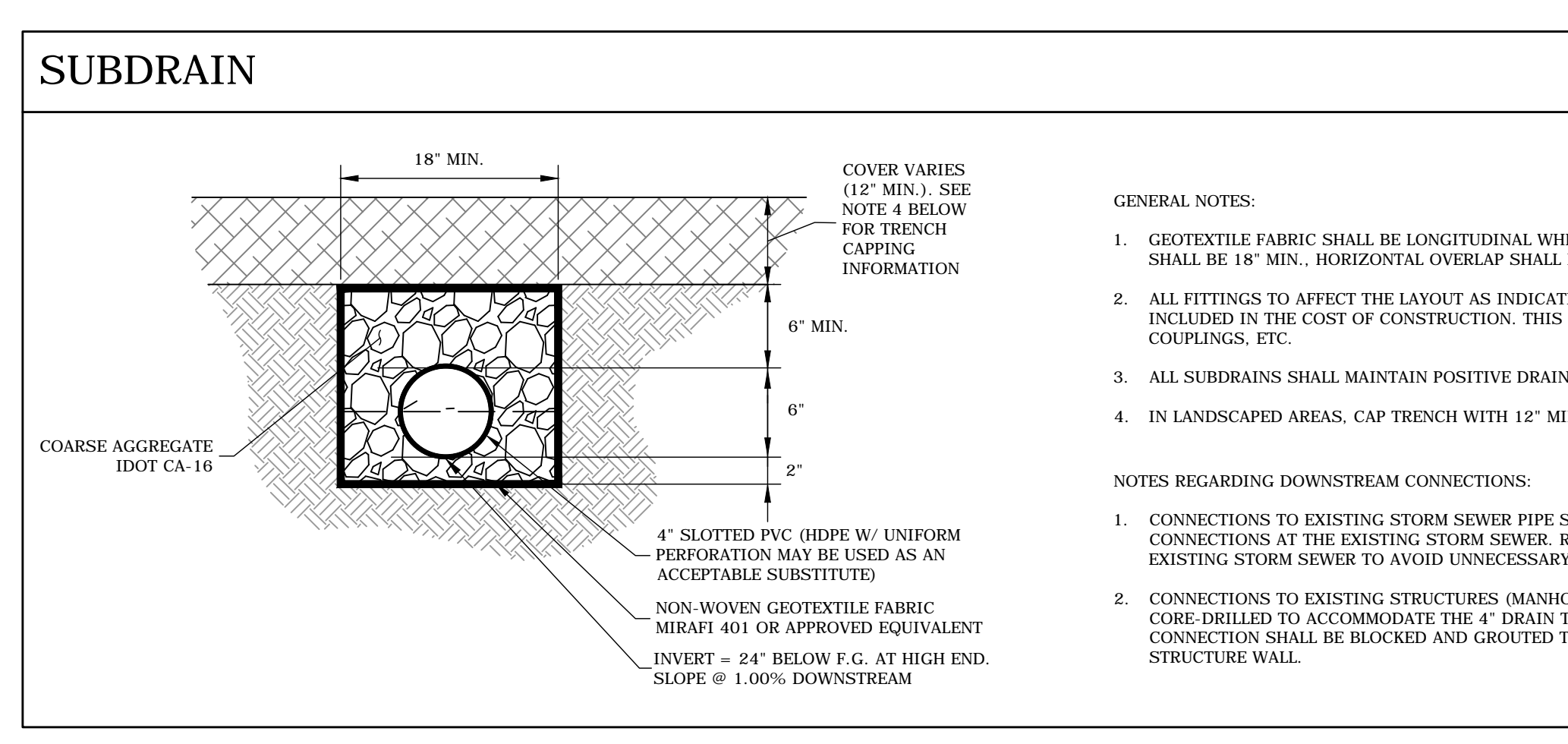
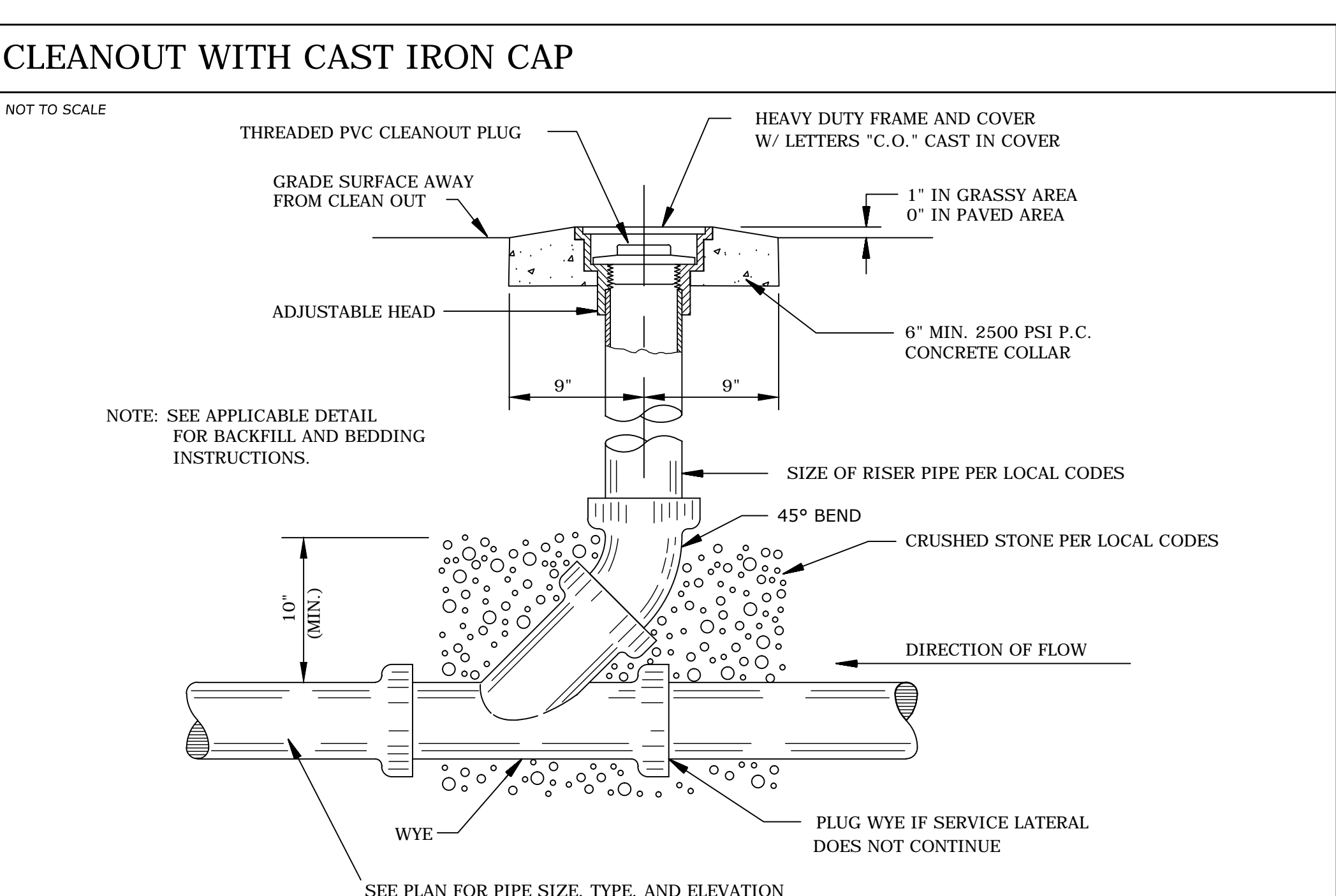
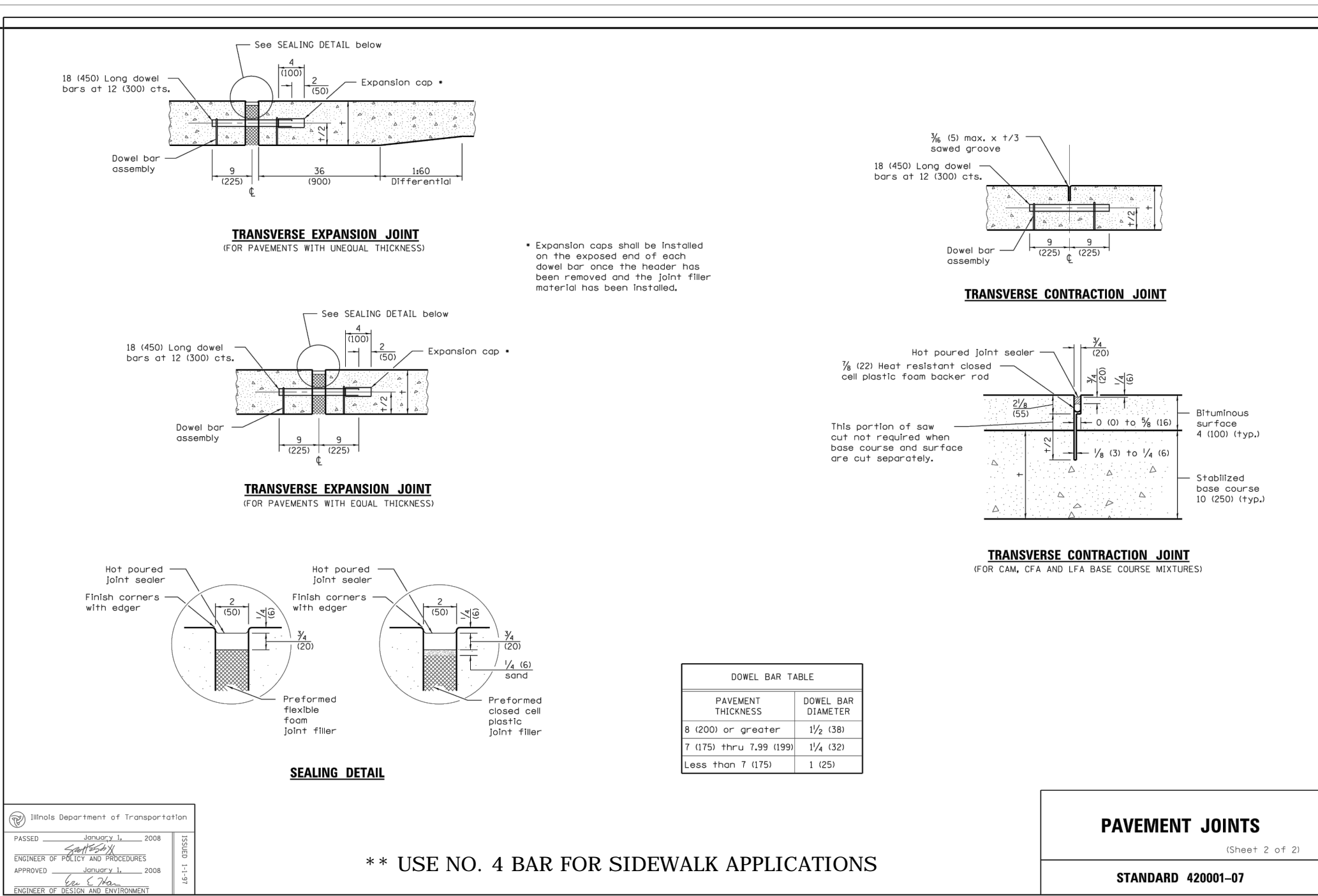
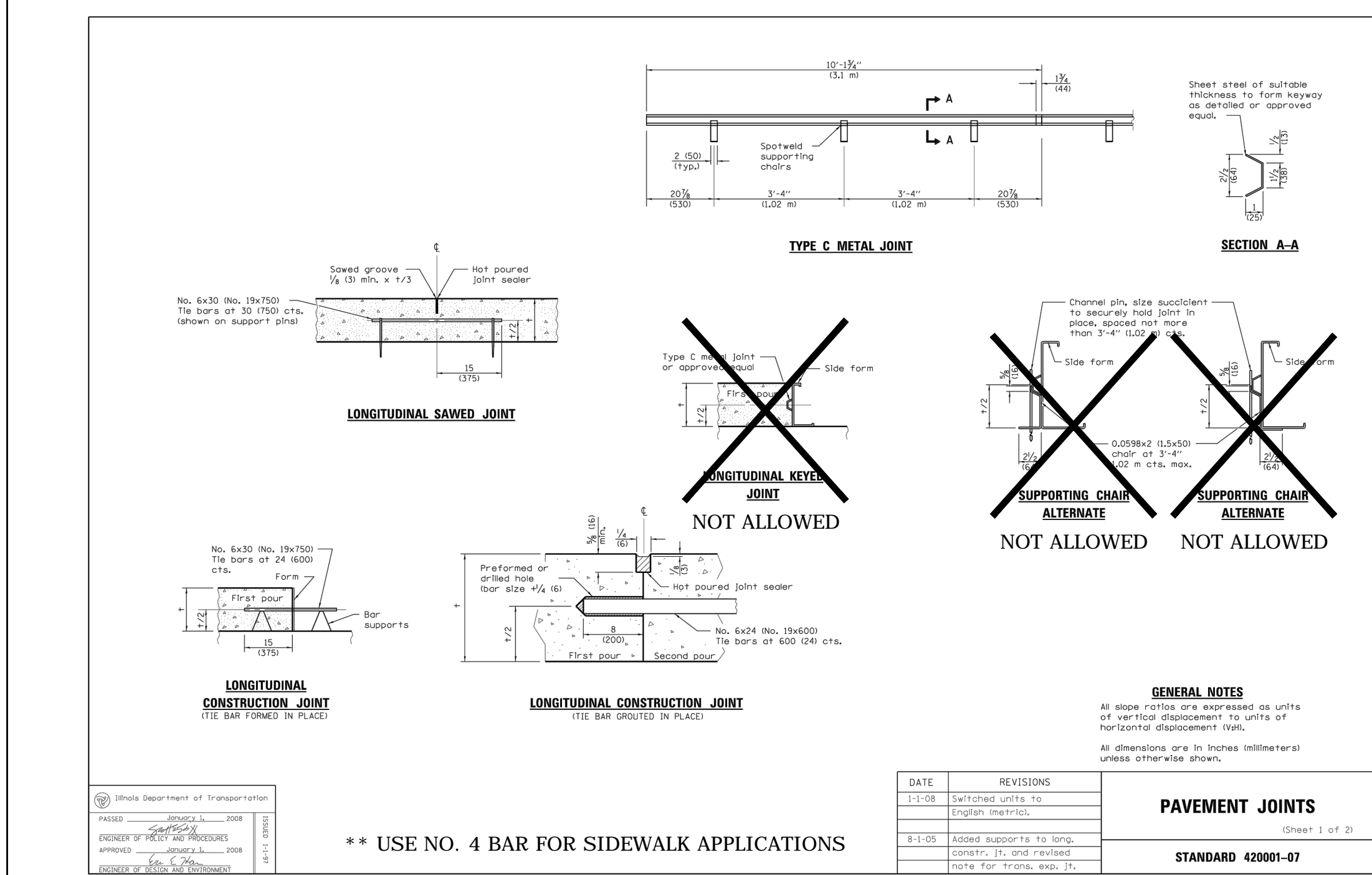
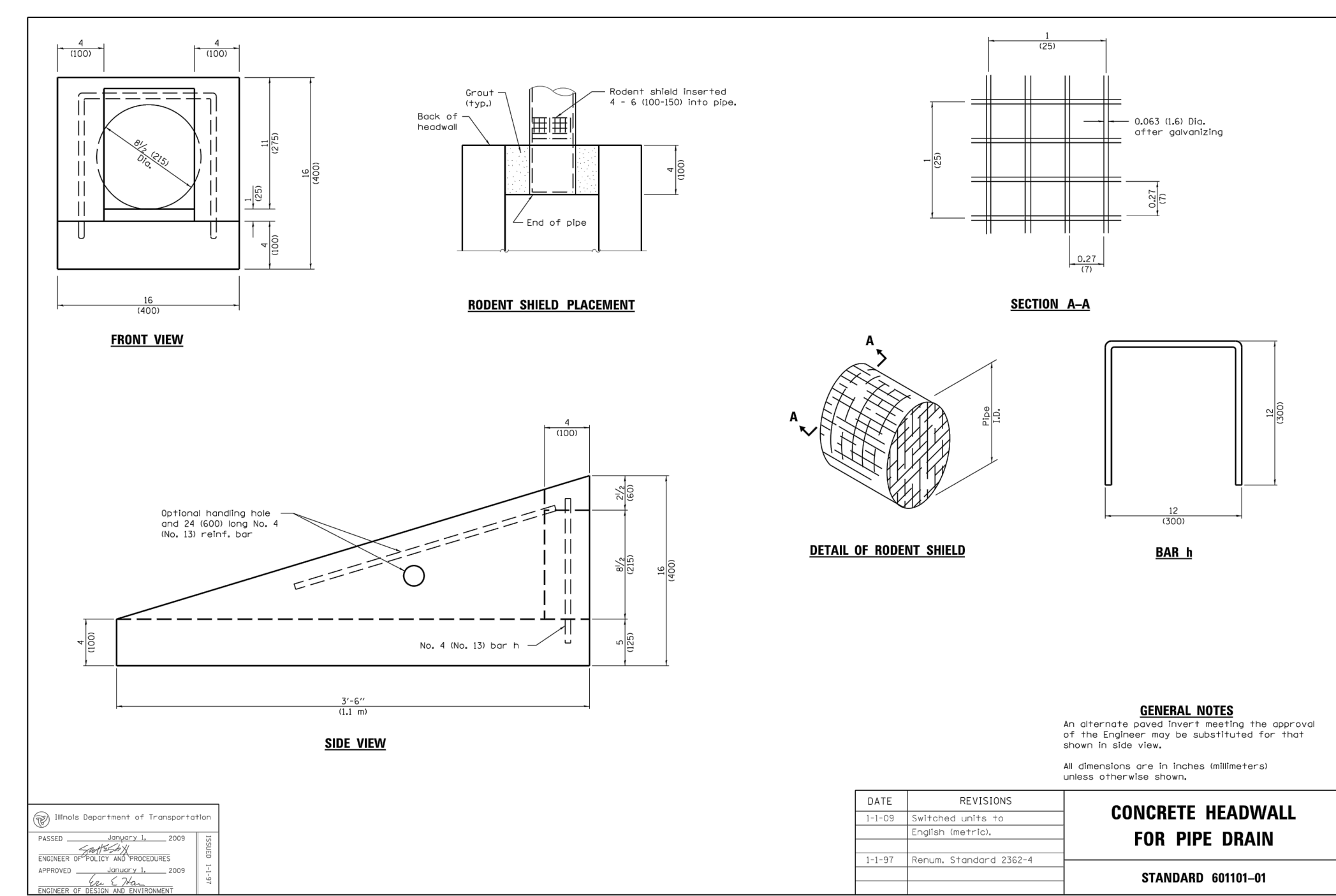
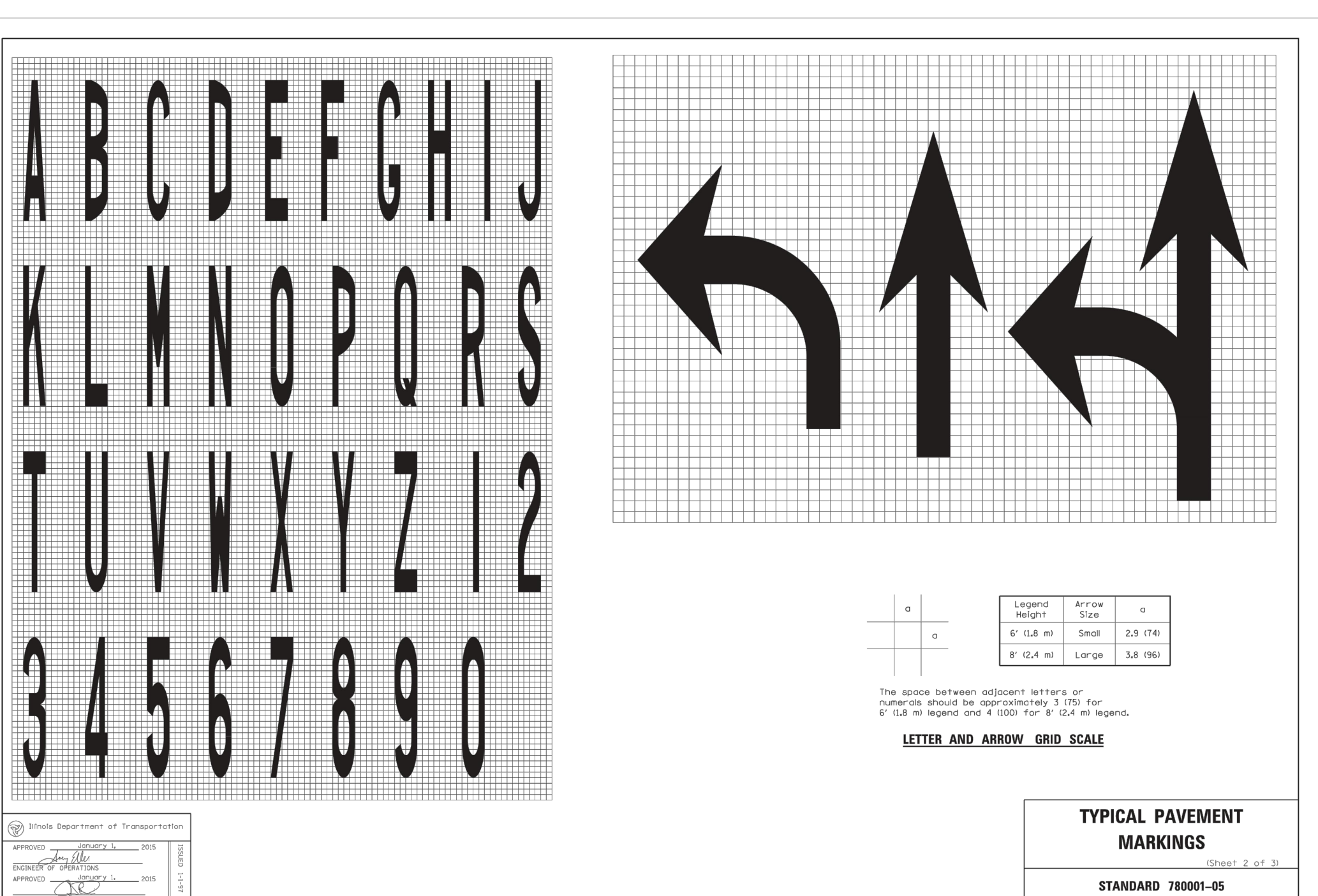
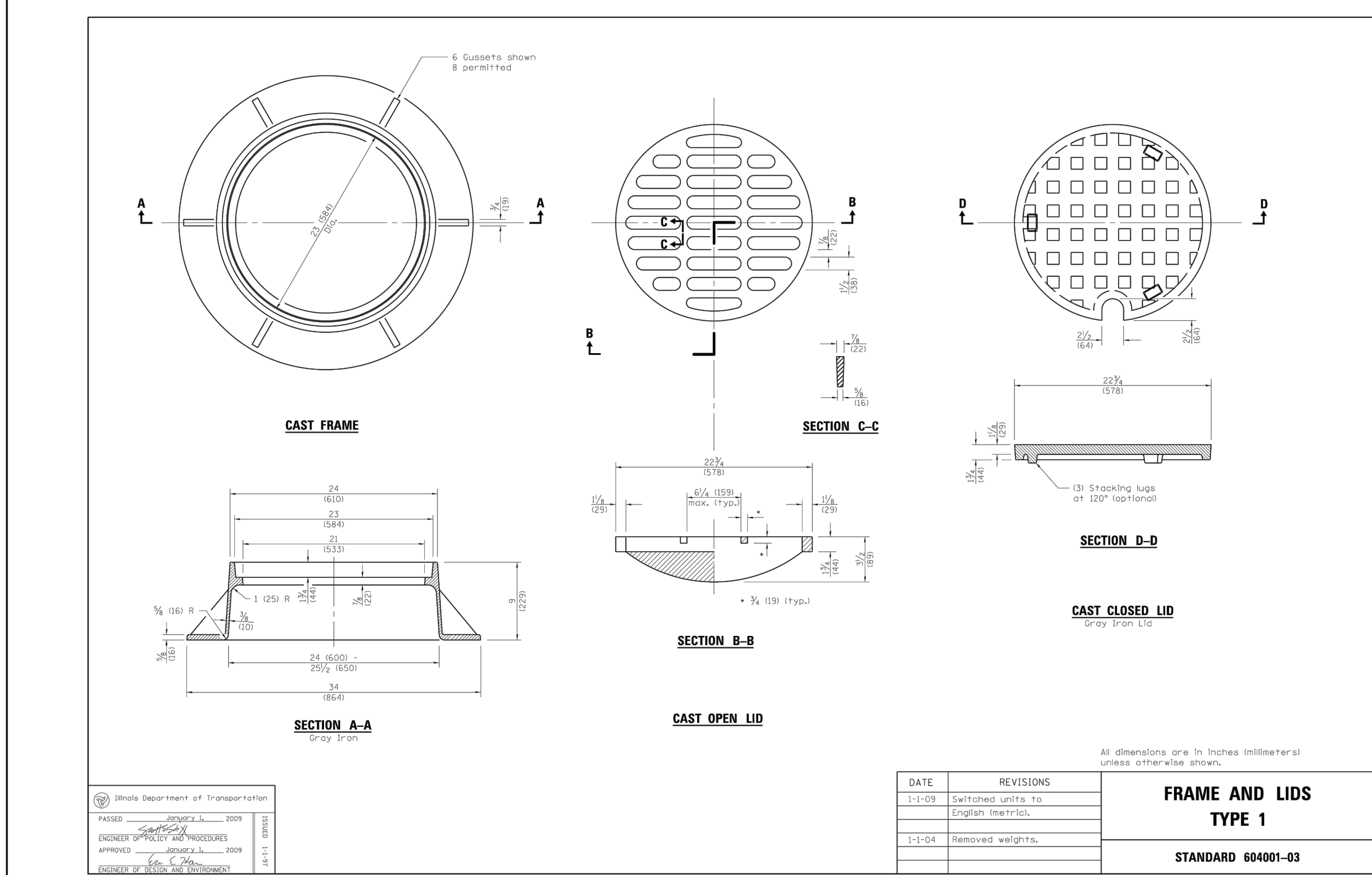
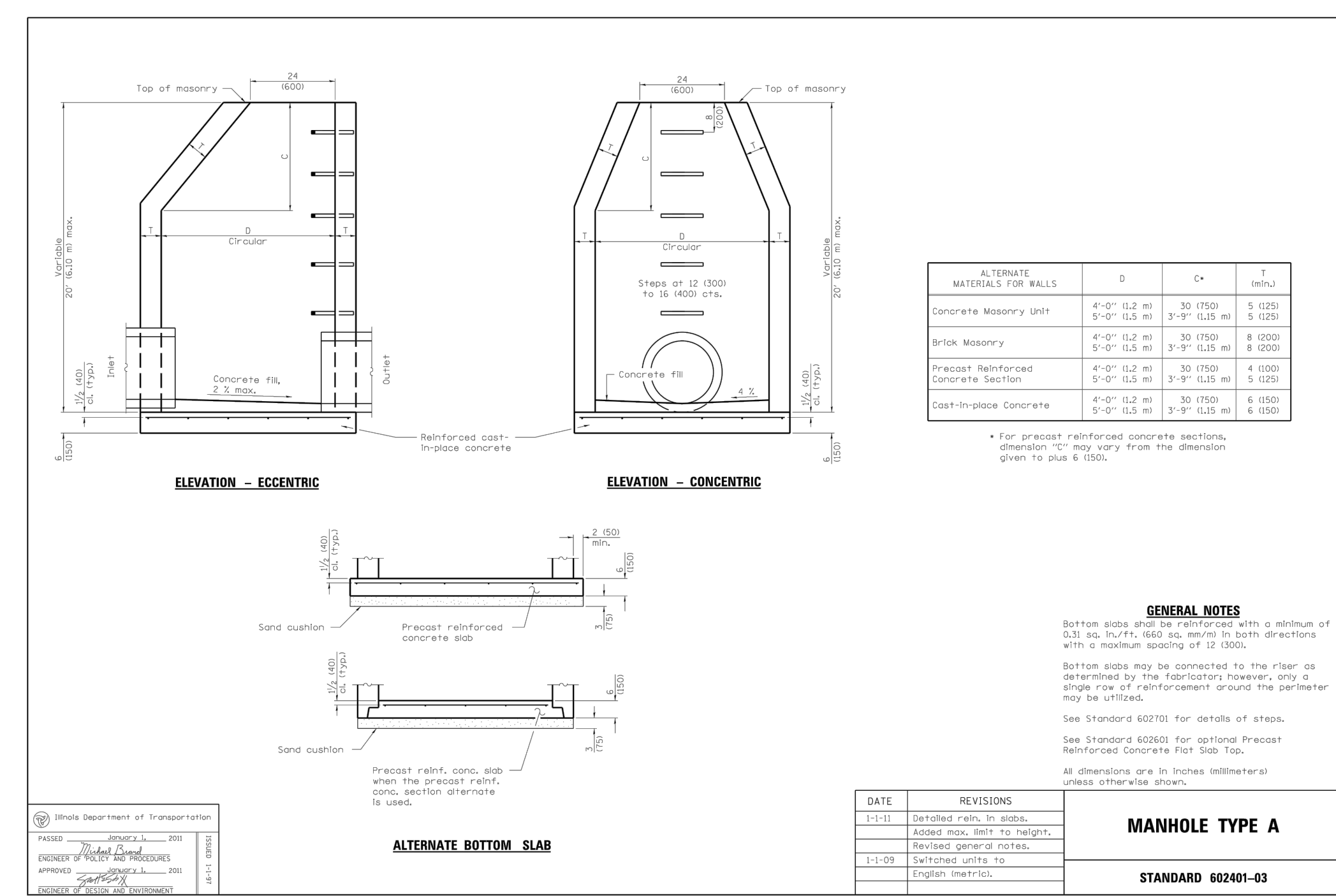
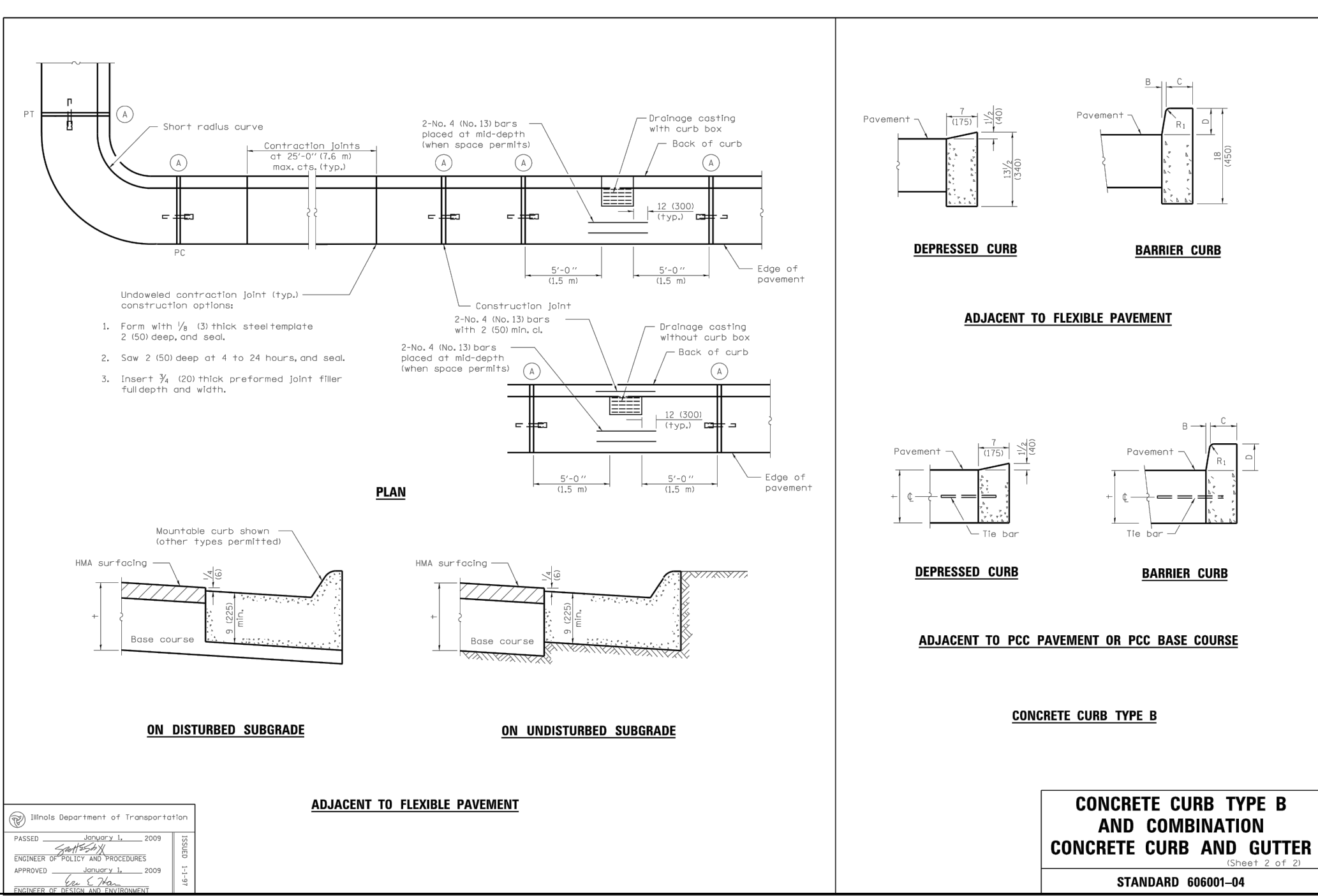
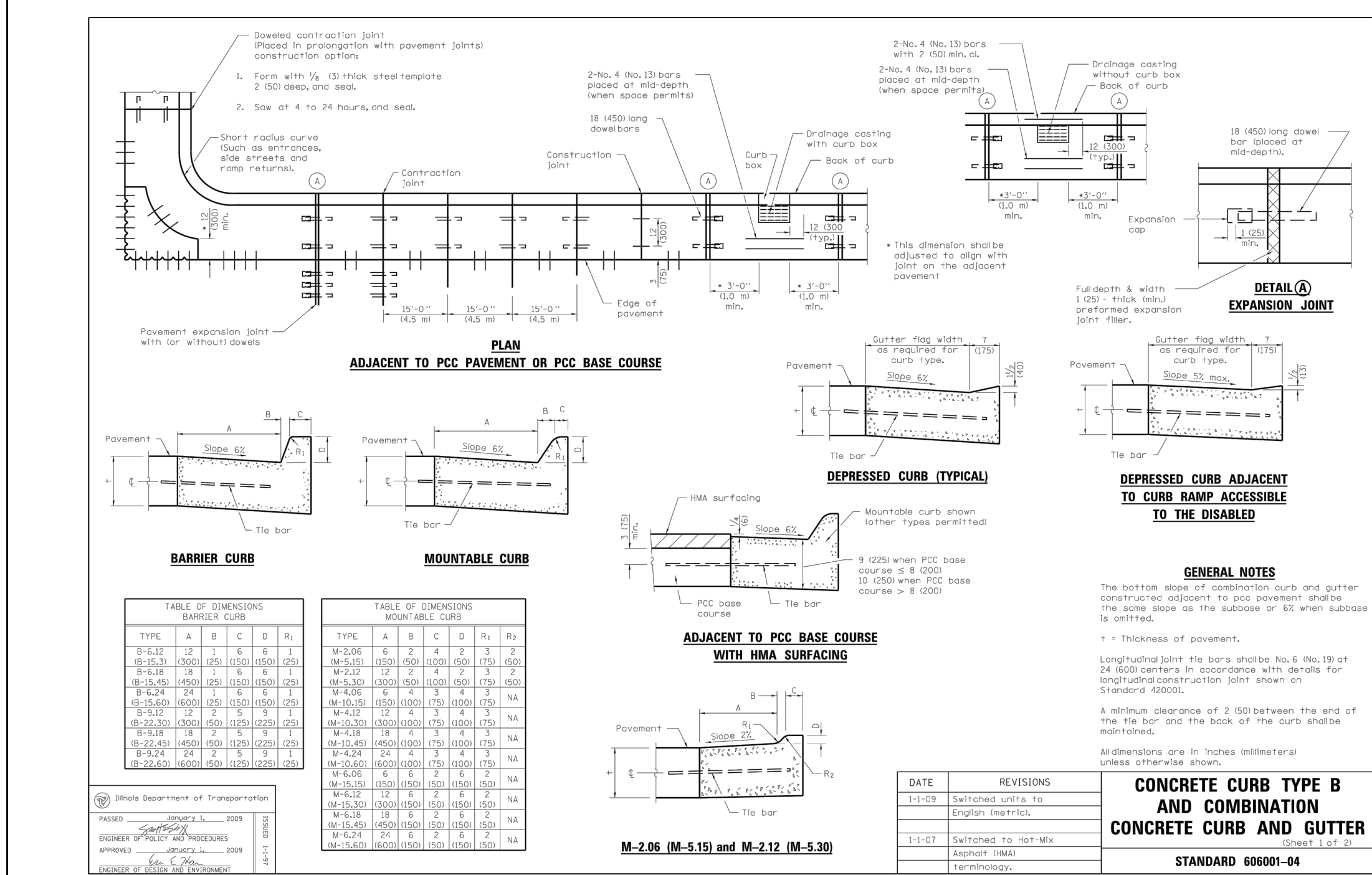
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KEY PLAN

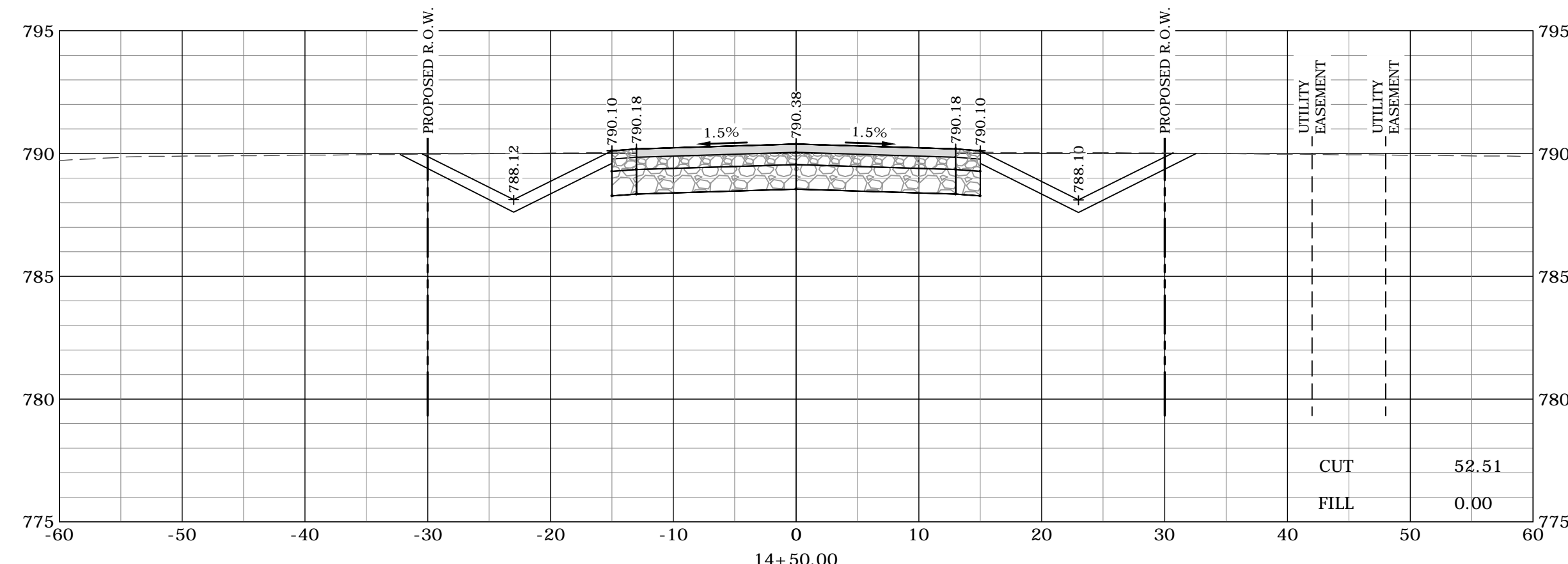
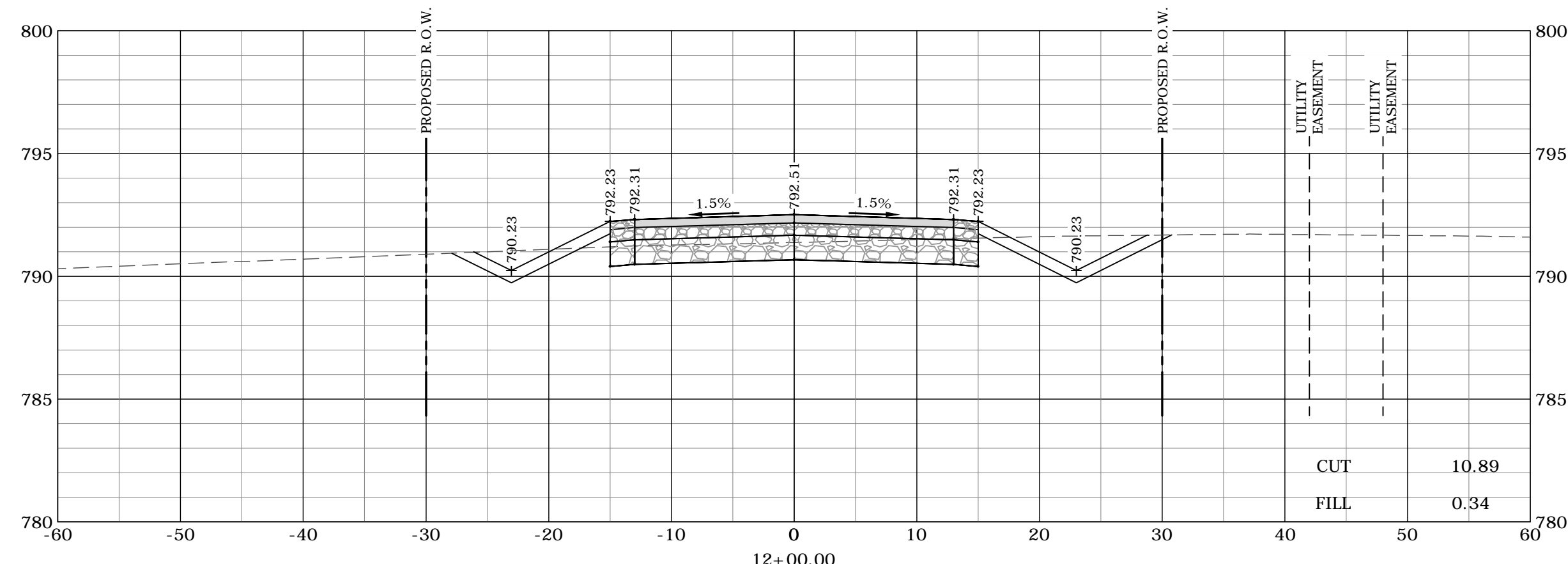
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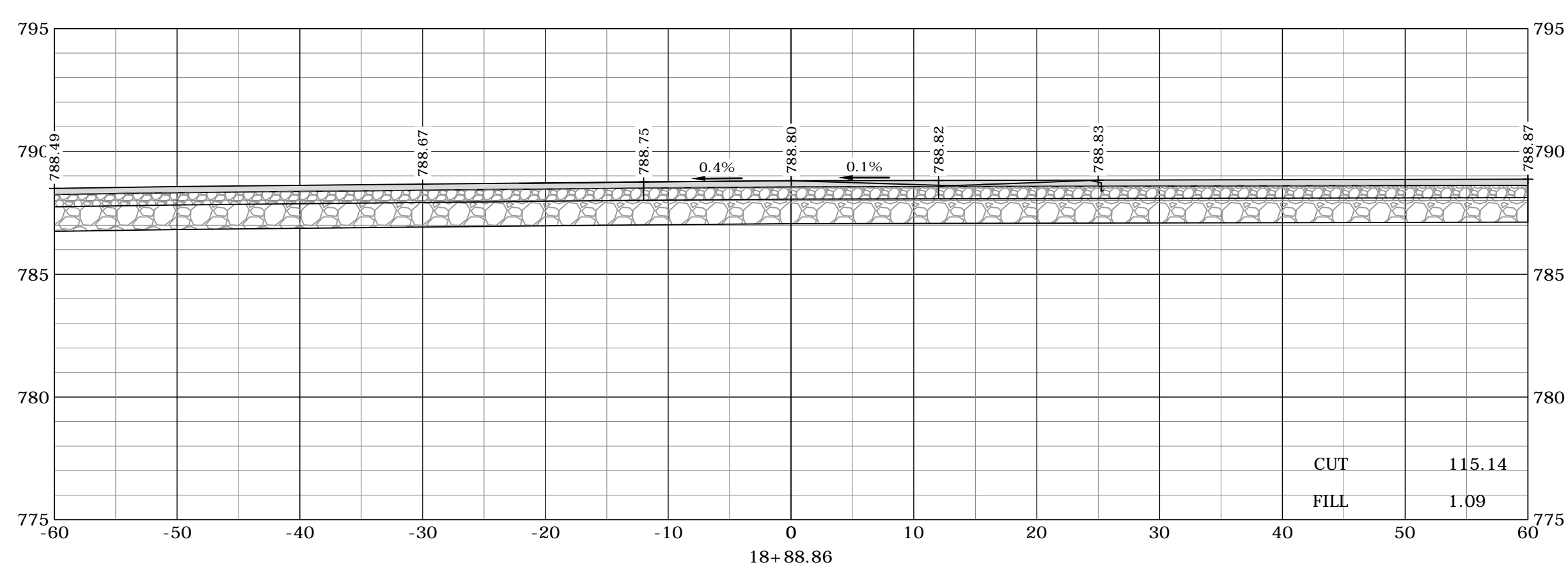
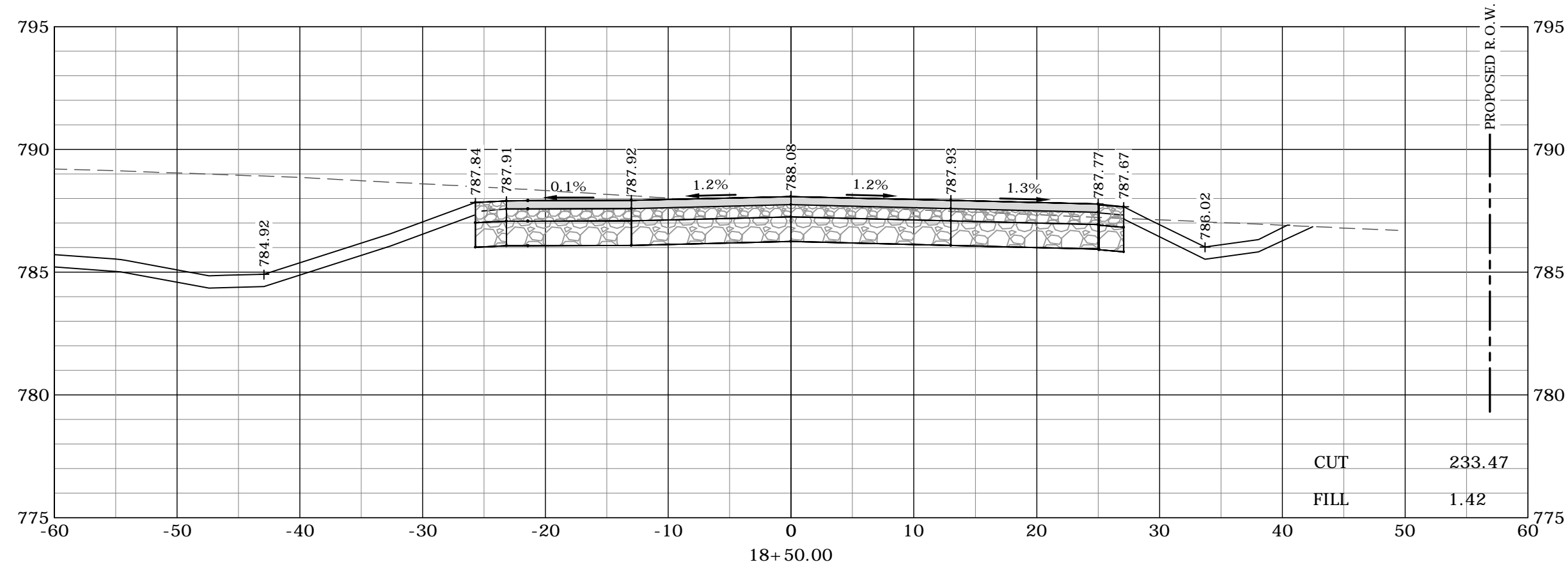
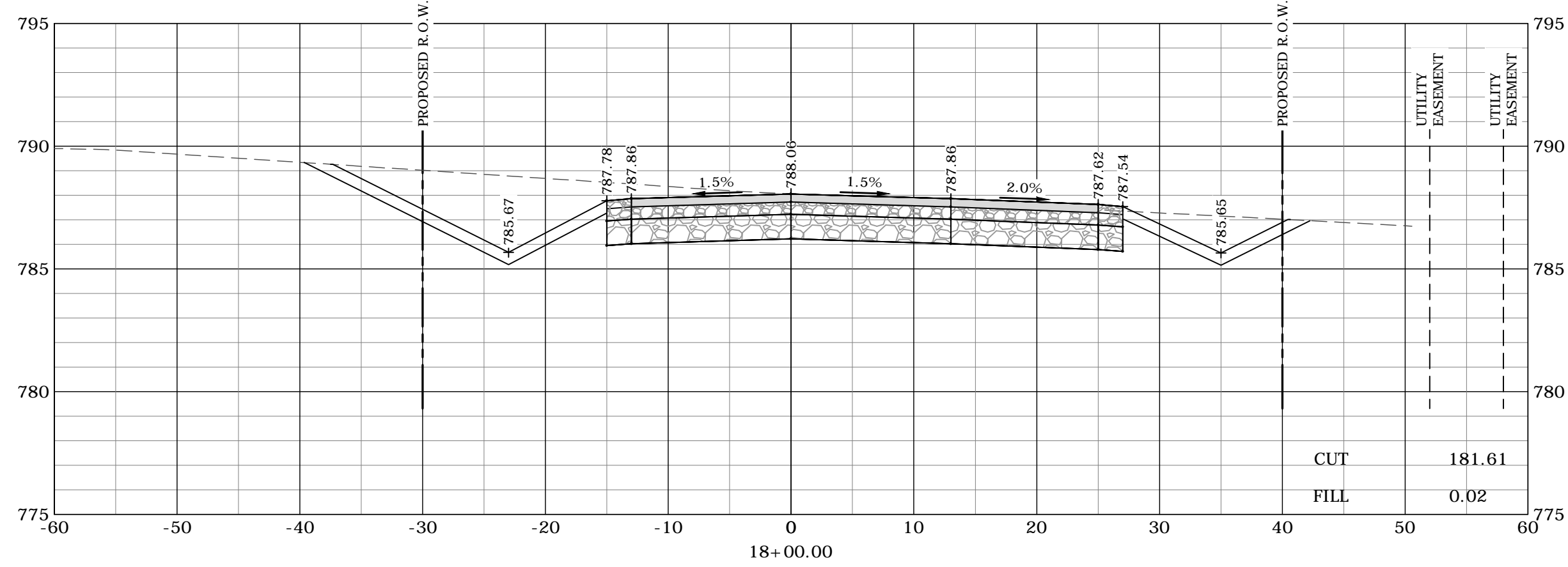
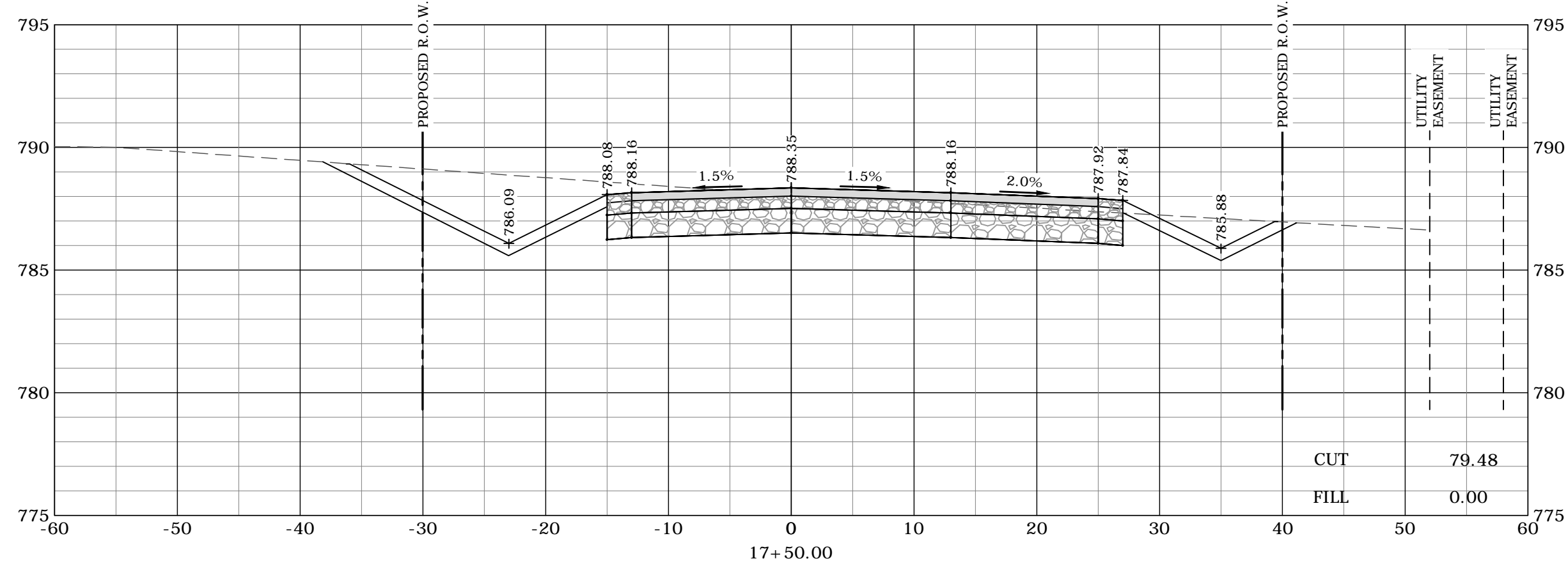
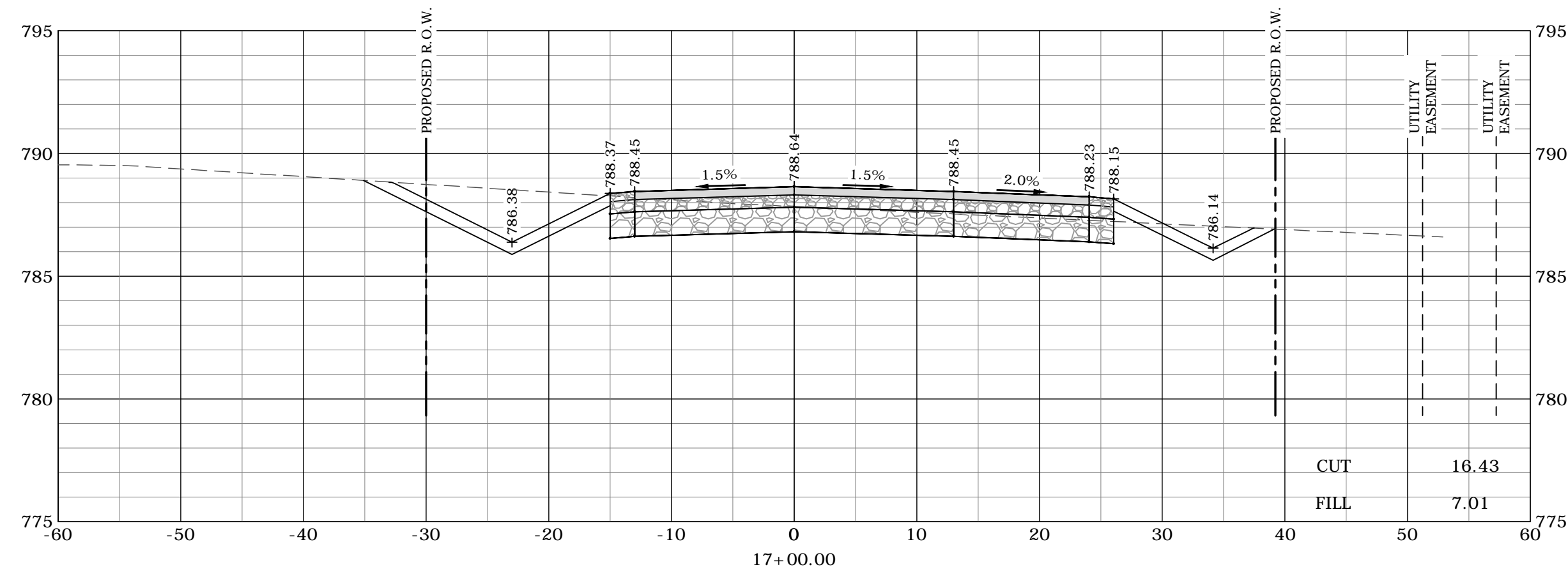
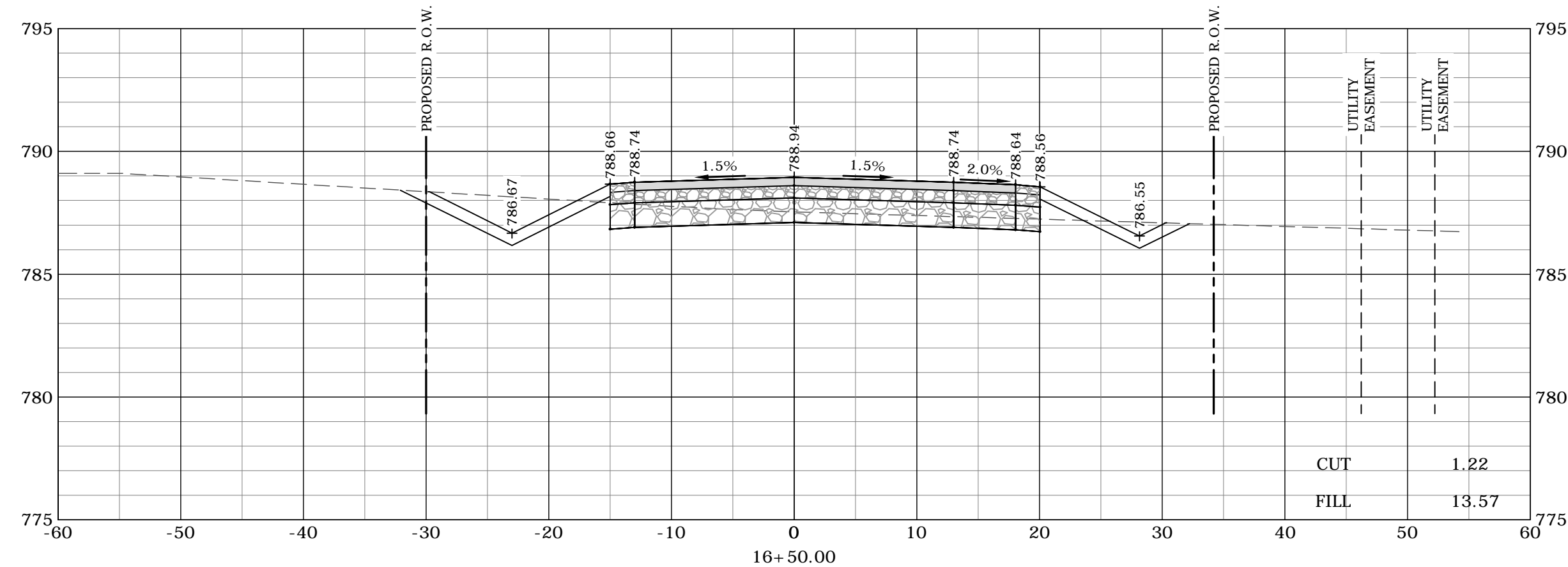
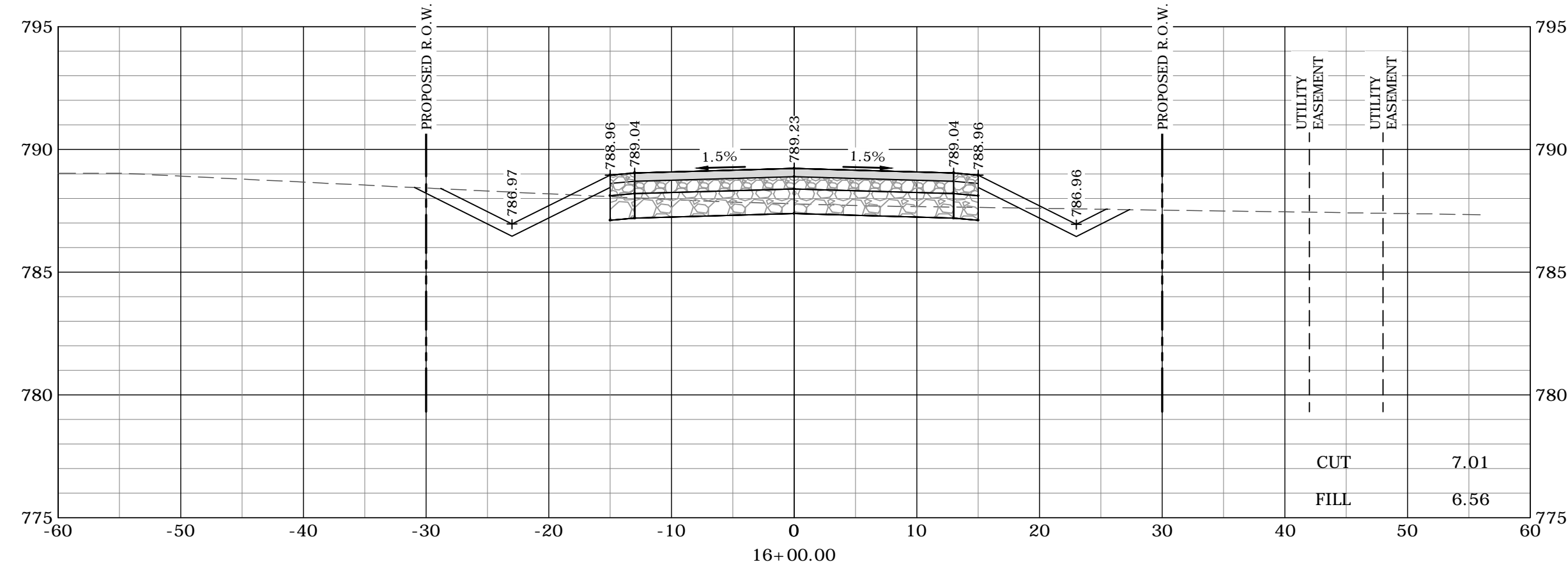
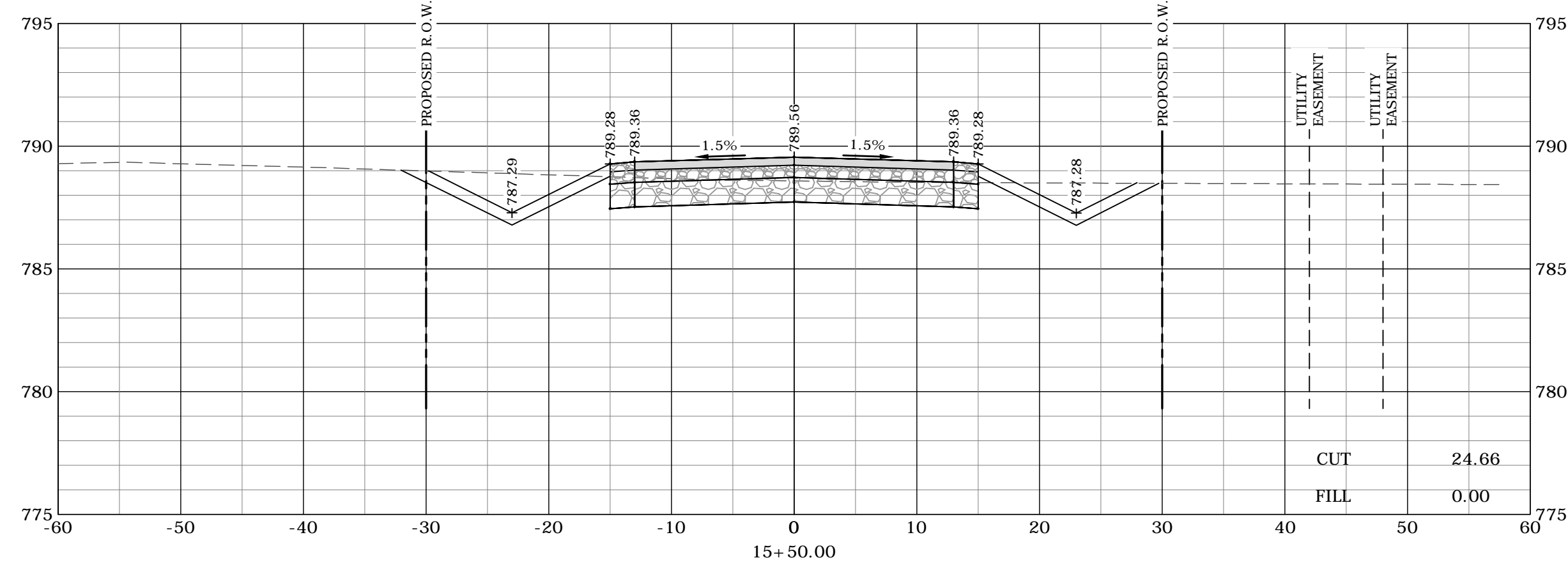
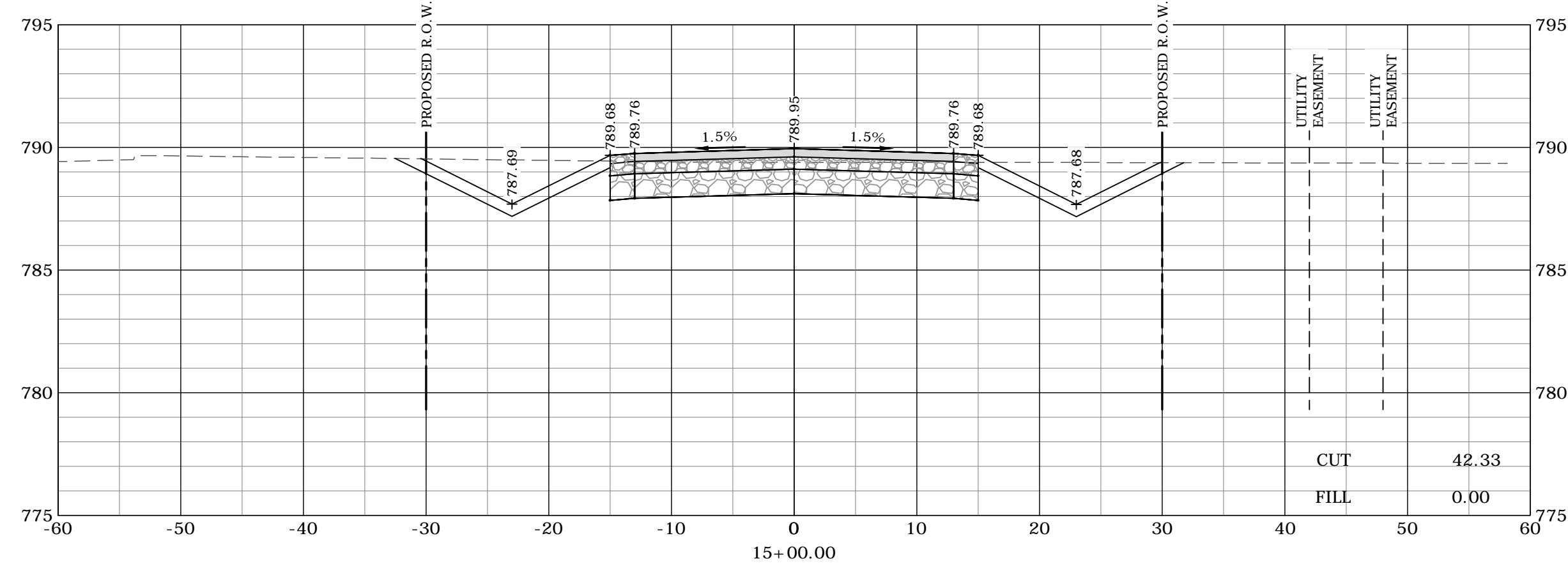
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KEY PLAN
Drawing Title:

ARMER DRIVE CROSS
SECTIONS STA. 15+00 -
19+00

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