

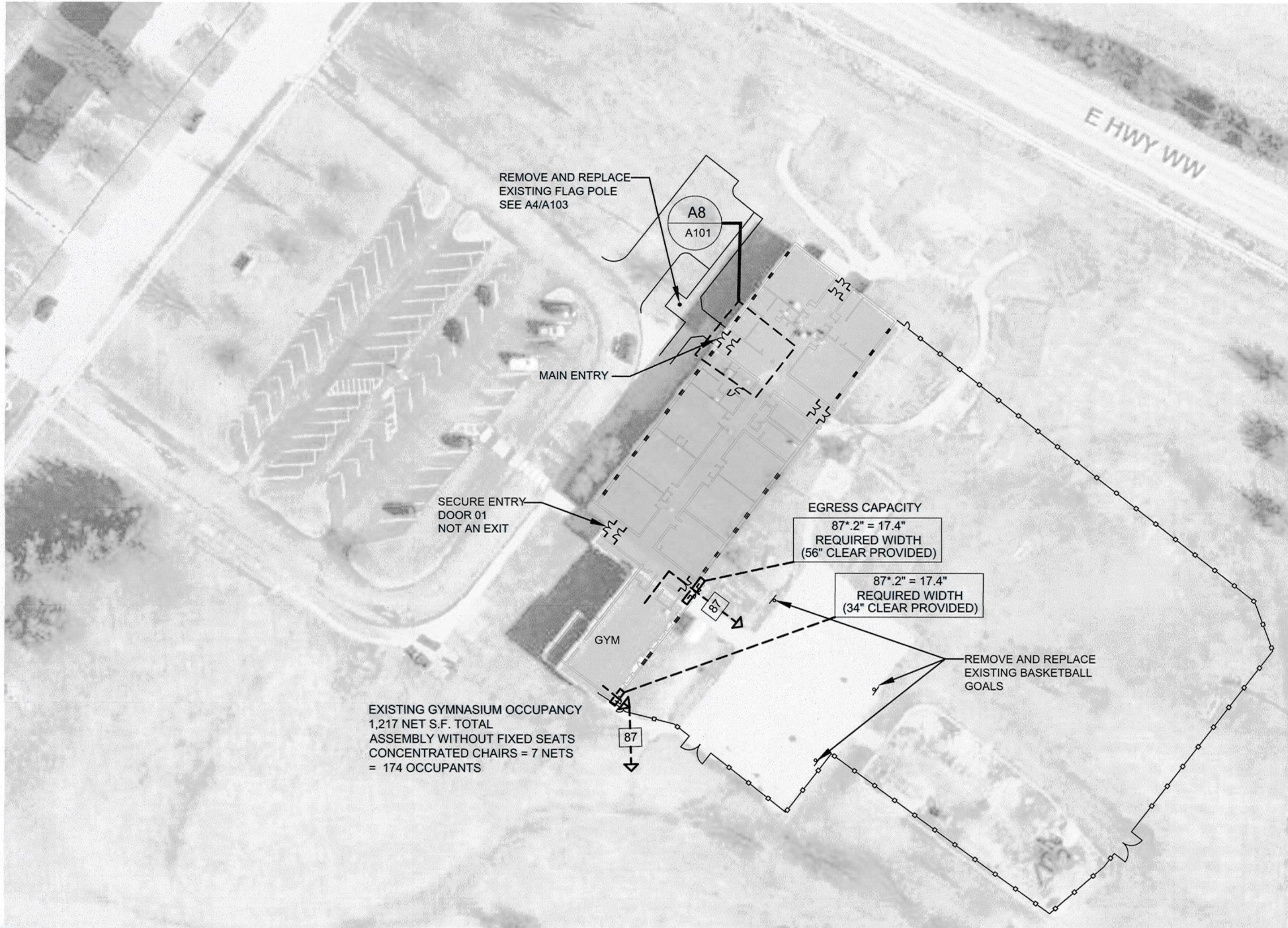
COLUMBIA PUBLIC SCHOOLS

ROSETA AVENUE LEARNING CENTER

(OLD CEDAR RIDGE ELEMENTARY SCHOOL)

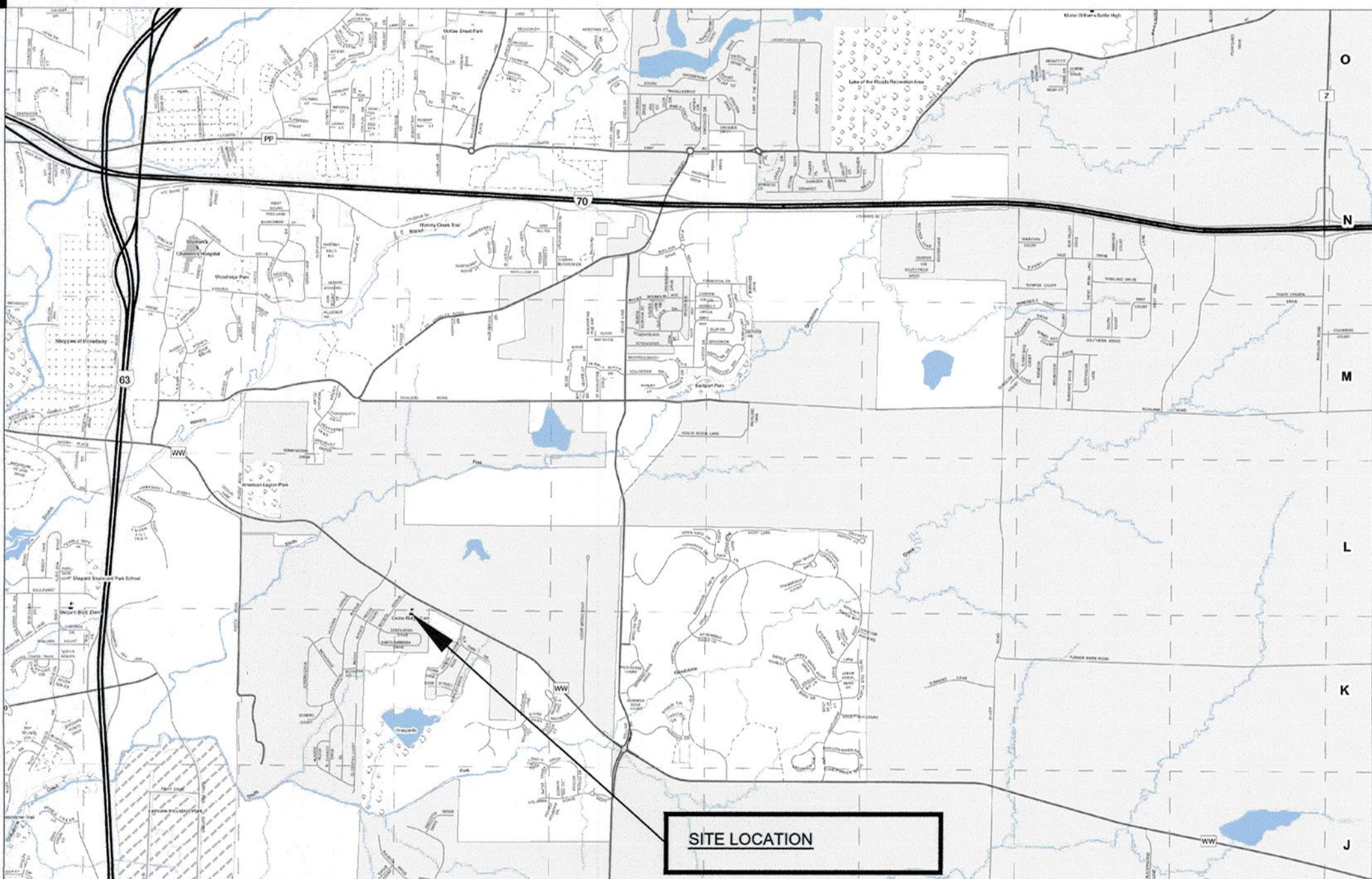
ROSETA ACCESSIBILITY, SAFETY AND SECURITY IMPROVEMENTS

1100 S ROSETA AVENUE, COLUMBIA, MO 60201



SITE - BUILDING PLAN

SCALE: 1" = 50'-0"



AREA MAP

SCALE: N.T.S.

| LARGE SCALE | SMALL SCALE |
|---|----------------------------|
| BRICK MASONRY UNIT | PLAN, SECTION ELEVATION |
| CONCRETE MASONRY UNIT | PLAN, SECTION ELEVATION |
| CONCRETE | PLAN, SECTION ELEVATION |
| GYPSUM BOARD | PLAN, SECTION ELEVATION |
| GROUTED AREA OF CAUCAVITY/DOOR FRAME | PLAN, SECTION ELEVATION |
| MISCELLANEOUS ITEMS: AS NOTED ON EACH SHEET | PLAN, SECTION, ELEVATION |
| INSULATION | PLAN, SECTION ELEVATION |
| ROOF SHINGLES | PLAN, SECTION ELEVATION |
| CONTINUOUS WOOD FRAMING | PLAN, SECTION ELEVATION |
| WOOD BLOCKING | PLAN, SECTION ELEVATION |
| PLYWOOD | PLAN, SECTION ELEVATION |
| EXISTING BUILDING | PLAN, SECTION ELEVATION |

MATERIAL LEGEND

SCALE: N.T.S.

| | |
|------------------------------------|---|
| DRAWING BULLET WITH NORTH ARROW | |
| | DRAWING TITLE SCALE: XX" = 1'-0" |
| DRAWING BULLET WITHOUT NORTH ARROW | |
| | DRAWING TITLE SCALE: XX" = 1'-0" |
| ELEVATION BULLETS | |
| | GRID REFERENCE SHEET NUMBER |
| SCOPE OF WORK BULLET | |
| | —X— |
| DOOR MARK BULLET | |
| | A-00 |
| WINDOW MARK BULLET | |
| | 1 |
| REVISION NOTE BULLET | |
| | |
| GENERAL NOTE BULLET | |
| | |
| BENCHMARK BULLET | |
| | 000.00 FLOOR |
| PLAN/ELEVATION DETAIL BULLET | |
| | GRID REFERENCE SHEET NUMBER |
| SECTION BULLET | |
| | GRID REFERENCE ALWAYS ON TOP SHEET NUMBER |
| NORTH ARROW | |
| | |
| COLUMN LINE BULLETS | |
| | 1 A |
| SPOT ELEV. BULLETS | |
| | 10.00/0.00 10.00/0.00 10.00/0.00 TG - TOP OF CURB TS - TOP OF GRADE TW - TOP OF WALL TP - TOP OF PAVING |

SYMBOL LEGEND

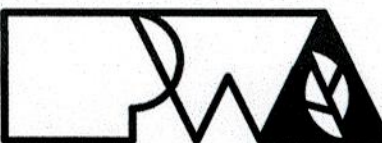
SCALE: N.T.S.

| GENERAL | |
|-----------------------------------|--|
| G001 | COVER SHEET |
| G002 | BUILDING OCCUPANCY AND EGRESS PLAN |
| CIVIL | |
| C0.01 | COVER SHEET |
| C0.02 | GENERAL NOTES |
| V1.01 | BOUNDARY & TOPOGRAPHIC SURVEY |
| C1.01 | DEMOLITION PLAN |
| C2.01 | OVERALL SITE PLAN |
| C3.01 | SITE PLAN |
| C3.02 | SITE PLAN - ACCESSIBLE AREAS |
| C4.01 | GRADING AND DRAINAGE PLAN |
| C4.02 | GRADING DETAILS |
| C5.01 | STORM SEWER PROFILES |
| C6.01 | EROSION CONTROL PLAN |
| C7.01-C7.03 | SITE DETAILS |
| C8.01 | RIGHT-OF-WAY DETAILS |
| C9.01-C9.02 | STORM SEWER DETAILS |
| C10.01-C10.02 | EROSION CONTROL DETAILS |
| C11.01 | STORM SEWER DRAINAGE AREA MAP |
| L1.01-L1.02 | LANDSCAPE PLAN |
| ARCHITECTURAL | |
| A101 | PLANS AND SCHEDULES |
| A102 | ELEVATIONS AND DETAILS |
| A103 | SECTIONS AND DETAILS |
| MECHANICAL, ELECTRICAL & PLUMBING | |
| MEP1 | MECHANICAL ELECTRICAL PLUMBING COVER SHEET |
| MEP2 | SITE UTILITIES PLAN |
| MEP2.1 | SITE UTILITIES DETAILS AND SCHEDULES |
| MEP3 | SITE PHOTOMETRIC PLAN |
| EP100 | POWER PLAN |
| EL100 | LIGHTING PLAN |

LIST OF DRAWINGS

SCALE: N.T.S.

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Missouri State Certificate of Authority No. 000244



12/17/2020

ROSETA AVENUE LEARNING
CENTER ACCESSIBILITY,
SAFETY AND SECURITY
IMPROVEMENTS
1100 S ROSETA AVENUE
Columbia, MO 65201

Drawn: Project Number:

LC 201621.51

Checked: CAD File Name (Number):

CD

Drawing Title:

COVER SHEET

No. Revisions: Date:

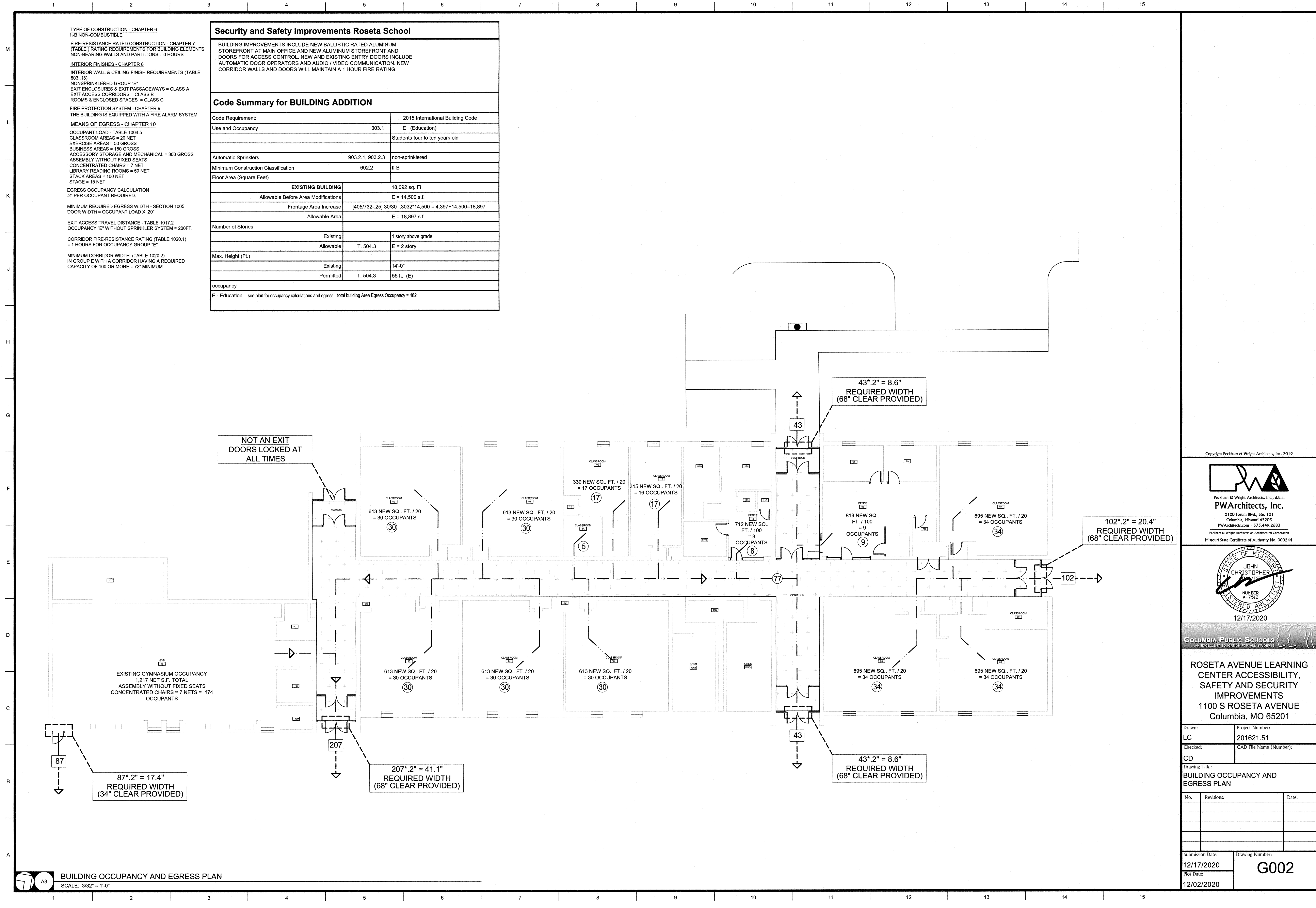
Submission Date: Drawing Number:

12/17/2020

Plot Date:

12/14/2020

G001



TYPE OF CONSTRUCTION - CHAPTER 6
II-B NON-COMBUSTIBLE

FIRE-RESISTANCE RATED CONSTRUCTION - CHAPTER 7
(TABLE) RATING REQUIREMENTS FOR BUILDING ELEMENTS
NON-BEARING WALLS AND PARTITIONS = 0 HOURS

INTERIOR FINISHES - CHAPTER 8
INTERIOR WALL & CEILING FINISH REQUIREMENTS (TABLE 803.13)
NONSPRINKLERED GROUP "E"
EXIT ENCLOSURES & EXIT PASSAGEWAYS = CLASS A
EXIT ACCESS CORRIDORS = CLASS B
ROOMS & ENCLOSED SPACES = CLASS C

FIRE PROTECTION SYSTEM - CHAPTER 9
THE BUILDING IS EQUIPPED WITH A FIRE ALARM SYSTEM

MEANS OF EGRESS - CHAPTER 10
OCCUPANT LOAD - TABLE 1004.5
CLASSROOM AREAS = 20 NET
EXERCISE AREAS = 50 GROSS
BUSINESS AREAS = 150 GROSS
ACCESSORY STORAGE AND MECHANICAL = 300 GROSS
ASSEMBLY WITHOUT FIXED SEATS
CONCENTRATED CHAIRS = 7 NET
LIBRARY READING ROOMS = 50 NET
STACK AREAS = 100 NET
STAGE = 15 NET

EGRESS OCCUPANCY CALCULATION
.2" PER OCCUPANT REQUIRED.

MINIMUM REQUIRED EGRESS WIDTH - SECTION 1005
DOOR WIDTH = OCCUPANT LOAD X .20"


EXIT ACCESS TRAVEL DISTANCE - TABLE 1017.2
OCCUPANCY "E" WITHOUT SPRINKLER SYSTEM = 200FT.

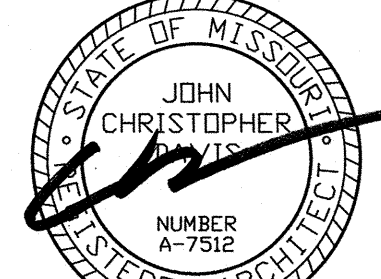
CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.1)
= 1 HOURS FOR OCCUPANCY GROUP "E"

MINIMUM CORRIDOR WIDTH (TABLE 1020.2)
IN GROUP E WITH A CORRIDOR HAVING A REQUIRED CAPACITY OF 100 OR MORE = 72" MINIMUM

| Security and Safety Improvements Roseta School | | |
|--|---|--------------------------------|
| BUILDING IMPROVEMENTS INCLUDE NEW BALLISTIC RATED ALUMINUM STOREFRONT AT MAIN OFFICE AND NEW ALUMINUM STOREFRONT AND DOORS FOR ACCESS CONTROL. NEW AND EXISTING ENTRY DOORS INCLUDE AUTOMATIC DOOR OPERATORS AND AUDIO / VIDEO COMMUNICATION. NEW CORRIDOR WALLS AND DOORS WILL MAINTAIN A 1 HOUR FIRE RATING. | | |
| Code Summary for BUILDING ADDITION | | |
| Code Requirement: | 2015 International Building Code | |
| Use and Occupancy | 303.1 | E (Education) |
| | | Students four to ten years old |
| Automatic Sprinklers | 903.2.1, 903.2.3 | non-sprinklered |
| Minimum Construction Classification | 602.2 | II-B |
| Floor Area (Square Feet) | | |
| EXISTING BUILDING | 18,092 sq. Ft. | |
| Allowable Before Area Modifications | E = 14,500 s.f. | |
| Frontage Area Increase | [405/732-.25] 30/30 .3032*14,500 = 4,397+14,500=18,897 | |
| Allowable Area | E = 18,897 s.f. | |
| Number of Stories | | |
| Existing | 1 story above grade | |
| Allowable | T. 504.3 | E = 2 story |
| Max. Height (FL) | | |
| Existing | 14'-0" | |
| Permitted | T. 504.3 | 55 ft. (E) |
| occupancy | | |
| E - Education | see plan for occupancy calculations and egress total building Area Egress Occupancy = 482 | |

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12/17/2020

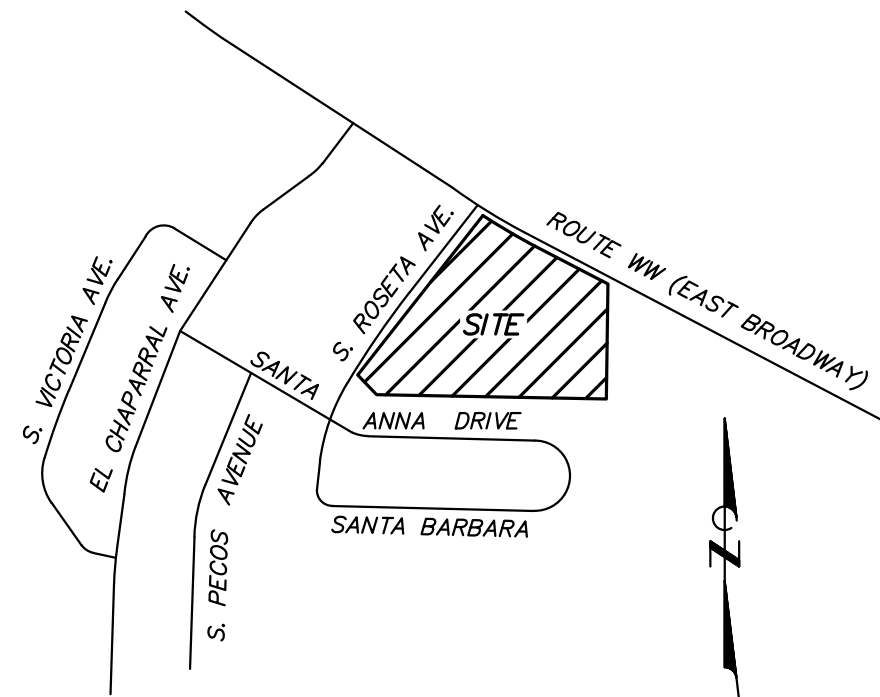
COLUMBIA PUBLIC SCHOOLS
...AN EXCELLENT EDUCATION FOR ALL STUDENTS

ROSETA AVENUE LEARNING CENTER ACCESSIBILITY, SAFETY AND SECURITY IMPROVEMENTS
1100 S ROSETA AVENUE
Columbia, MO 65201

| | | |
|---------------------------------------|-------------------------|-----------------|
| Drawn: | Project Number: | |
| LC | 201621.51 | |
| Checked: | CAD File Name (Number): | |
| CD | | |
| Drawing Title: | | |
| BUILDING OCCUPANCY AND EGRESS PLAN | | |
| No. | Revisions: | Date: |
| | | |
| | | |
| | | |
| | | |
| Submission Date: | | Drawing Number: |
| 12/17/2020 | | G002 |
| Plot Date: | | |
| 12/02/2020 | | |

ROSETA AVENUE LEARNING CENTER ACCESSIBILITY, SAFETY AND SECURITY IMPROVEMENTS

BOONE COUNTY, MISSOURI
SITE PLAN
JUNE 25, 2020
REVISED: DECEMBER 17, 2020



VICINITY MAP
NOT TO SCALE

LEGEND

| | |
|---|---|
| — | PROPERTY LINE |
| — | ELECTRIC LINE |
| — | FIBER OPTIC LINE |
| — | UNDERGROUND ELECTRIC LINE |
| — | UNDERGROUND TELECOMMUNICATIONS LINE |
| — | SANITARY SEWER LINE |
| — | STORM SEWER LINE |
| — | GAS LINE |
| — | WATER LINE |
| — | FENCE |
| — | DRAINAGE SWALE |
| — | EXISTING CONTOUR |
| — | ANCHOR |
| — | IRON |
| — | CONTROL POINT |
| — | A/C |
| — | CMP |
| — | EM |
| — | FES |
| — | FH |
| — | FL |
| — | GV |
| — | LP |
| — | PVC |
| — | RD |
| — | TP |
| — | TVP |
| — | UP |
| — | VCP |
| — | WV |
| — | TOP OF CURB ELEVATION |
| — | TOP OF PAVEMENT ELEVATION |
| — | FINISH GRADE ELEVATION |
| — | PROPOSED STORM SEWER |
| — | HEAVY DUTY ASPHALT PAVEMENT |
| — | STANDARD DUTY ASPHALT PAVEMENT |
| — | CONCRETE SIDEWALK |
| — | CONCRETE DRIVEWAY APPROACH |
| — | ACCESSIBLE AREA CONSTRUCTED WITH THIS PROJECT |
| — | GENERAL SURFACE FLOW |
| — | PROPOSED LIGHT STANDARD (SEE MEP) |

PROPERTY DESCRIPTION

TRACT DESCRIBED BY DEED RECORDED IN BOOK 450 PAGE 437

FLOODPLAIN NOTE

THIS PROPERTY IS LOCATED IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN BY FLOOD INSURANCE RATE MAP NUMBER 29019C0292E, DATED APRIL 17, 2019.

UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAT, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD. UNDERGROUND UTILITY SERVICES TO BUILDINGS WERE NOT LOCATED.

WATER
PUBLIC WATER SUPPLY DISTRICT NO. 9
391 RANGELINE ROAD
COLUMBIA, MISSOURI 65201
CONTACT: ROGER BALLEW 573-474-9521
4" LINE ALONG WEST SIDE OF ROSETTA DRIVE
12" LINE ALONG NORTH SIDE OF STATE ROUTE WW

ELECTRIC
BOONE ELECTRIC COOPERATIVE
1413 RANGE LINE STREET
COLUMBIA, MISSOURI 65201
CONTACT: ANDREW PETRI 573-441-7243
AS SHOWN

GAS
AMEREN MISSOURI
2001 MAGUIRE BOULEVARD
COLUMBIA, MISSOURI 65201
CONTACT: TRENT SNODGRASS 573-876-3063
3" PLASTIC LINE ALONG SOUTH SIDE OF STATE ROUTE WW

TELECOMMUNICATIONS
CENTURYLINK
626 E. CHERRY STREET
COLUMBIA, MISSOURI 65201
CONTACT: DAVID ROBERTS 573-886-3503

MEDIA/COM
1211 WILKES BOULEVARD
COLUMBIA, MISSOURI 65201
CONTACT: BOB BOWEN 573-443-1536

CITY OF COLUMBIA WATER & LIGHT DEPARTMENT
P.O. BOX 6015
COLUMBIA, MISSOURI 65205
CONTACT: ERIC WORTS 573-874-6382
OVERHEAD SERVICE FROM UTILITY POLE ALONG HWY WW TO NORTH SIDE OF BUILDING

SANITARY SEWER
BOONE COUNTY REGIONAL SEWER DISTRICT
1314 N. SEVENTH STREET
COLUMBIA, MISSOURI 65201
CONTACT: TOM RATERMANN 573-443-2774



PROPERTY OWNER

COLUMBIA PUBLIC SCHOOLS
1818 WEST WORLEY STREET
COLUMBIA, MISSOURI 65203
PHONE: 573-214-3400

ZONING NOTE

THIS PROPERTY IS ZONED R-M, MODERATE DENSITY RESIDENTIAL

SURVEY ASSURANCE NOTE

THE CONTRACTOR SHALL FIELD VERIFY THE BENCH MARK AND SURVEY CONTROL POINTS PRIOR TO CONSTRUCTION. CONTACT REPRESENTATIVES OF ENGINEERING SURVEYS & SERVICES IMMEDIATELY IF ANY DISCREPANCIES ARE NOTED.

PARKING NOTE

REQUIRED PARKING
12 CLASSROOMS AT 2 SPACES/CLASSROOM = 24 SPACES
8,747 SF COMMON AREAS AT 1 SPACE/300 SF = 29 SPACES
TOTAL REQUIRED = 53 SPACES

PROVIDED PARKING
STANDARD PARKING = 53 SPACES
ACCESSIBLE PARKING = 3 SPACES
TOTAL PROVIDED = 56 SPACES

STORMWATER MANAGEMENT NOTE

| ROSETTA ELEMENTARY SCHOOL (JUNE 2020) | | | |
|---------------------------------------|---|-------------------------------------|---|
| Total Existing Site Impervious (SF) | Total Site Impervious Allowed before Stormwater Requirements Apply (SF) | Total Proposed Site Impervious (SF) | Total Additional Impervious Allowed for Future Projects before Stormwater Requirements Apply (SF) |
| 73,852 | 76,852 | 73,924 | 2,928 |

Note: Boone County allows up to 3,000 sf of additional impervious area to a site for redevelopment before stormwater quality and detention requirements apply.

BENCH MARK

BM — MISSOURI DEPARTMENT OF TRANSPORTATION VRS NETWORK, BASE STATION "MOCO". ELEVATION = 755.36
TBM 1 — CHISELED SQUARE ON THE NORTHEAST CORNER OF TRANSFORMER PAD ON THE EAST SIDE OF ROSETTA SCHOOL. ELEVATION = 799.20
TBM 2 — CHISELED SQUARE ON THE BASE OF CONCRETE STEPS LOCATED AT THE SOUTHEAST CORNER OF ROSETTA SCHOOL. ELEVATION = 797.37
TBM 3 — CHISELED SQUARE AT NE CORNER OF CONCRETE SIDEWALK AT WEST SIDE OF DRIVE OPPOSITE WEST ENTRANCE TO ROSETTA SCHOOL. ELEVATION = 797.53

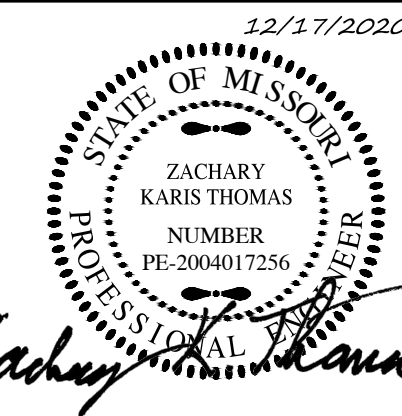
SURVEY CONTROL POINTS

| MODIFIED STATE PLANE COORDINATES NAD 83, MISSOURI CENTRAL ZONE, NAVD 88, U.S. SURVEY FEET | | | | |
|--|------------|------------|-----------|-------------|
| POINT # | NORTH | EAST | ELEVATION | DESCRIPTION |
| CP1 | 1130146.41 | 1705248.71 | 791.25 | IRON |
| CP5 | 1129822.80 | 1705054.13 | 789.80 | IRON |
| CP6 | 1130032.26 | 1705635.30 | 811.40 | IRON |
| CP9 | 1129712.95 | 1705443.54 | 794.60 | IRON |

SHEET INDEX

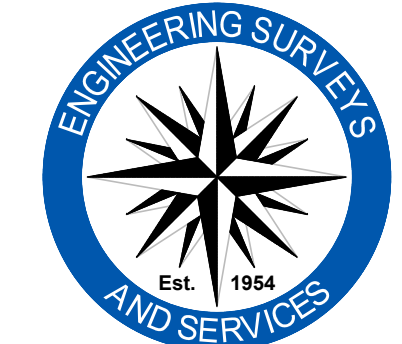
| | |
|---------------|-------------------------------|
| C0.01 | COVER SHEET |
| C0.02 | GENERAL NOTES |
| V1.01 | BOUNDARY & TOPOGRAPHIC SURVEY |
| C1.01 | DEMOLITION PLAN |
| C2.01 | OVERALL SITE PLAN |
| C3.01 | SITE PLAN |
| C3.02 | SITE PLAN — ACCESSIBLE AREAS |
| C4.01 | GRADING & DRAINAGE PLAN |
| C4.02 | GRADING DETAILS |
| C5.01 | STORM SEWER PROFILES |
| C6.01 | EROSION CONTROL PLAN |
| C7.01-C7.03 | SITE DETAILS |
| C8.01 | RIGHT-OF-WAY DETAILS |
| C9.01-C9.02 | STORM SEWER DETAILS |
| C10.01-C10.02 | EROSION CONTROL DETAILS |
| C11.01 | STORM SEWER DRAINAGE AREA MAP |
| L1.01-L1.02 | LANDSCAPE PLAN |

ROSETTA AVENUE LEARNING CENTER ACCESSIBILITY,
SAFETY AND SECURITY IMPROVEMENTS



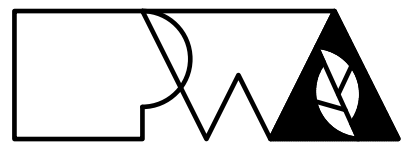
ZACHARY K. THOMAS
PROFESSIONAL ENGINEER
PE-2004017256

IF ORIGINAL SIGNATURE OR DIGITAL AUTHENTICATION IS NOT PRESENT THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

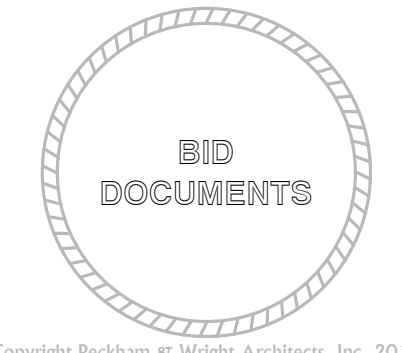


Engineering Surveys & Services

1113 Fay Street, Columbia, Missouri 65201
573-449-2646 | www.ess-inc.com
Missouri Engineering Corporation # 2004005018
ES&S JOB NO. 14646



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ROSETTA AVENUE LEARNING
CENTER ACCESSIBILITY,
SAFETY AND SECURITY
IMPROVEMENTS
1100 S ROSETTA AVENUE
COLUMBIA, MO 65201

| | | | |
|------------------|----------------|-------------------------|--|
| Drawn: | | Project Number: | |
| BR | | 201621.51 | |
| Checked: | | CAD File Name (Number): | |
| ZKT | | | |
| Drawing Title: | | | |
| COVER SHEET | | | |
| | | | |
| No. | Revisions: | Date: | |
| ① | OWNER COMMENTS | 10/26/20 | |
| ② | OWNER COMMENTS | 12/17/20 | |
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| | | | |
| | | | |
| Submission Date: | | Drawing Number: | |
| 6/25/2020 | | C0.01 | |
| Plot Date: | | | |
| 12/15/2020 | | | |

F:\CURRENT DRAWINGS\PECKHAM\14646\14646 COVER & DETAILS.DWG 12/15/2020

M

L

K

J

H

G

F

E

D

C

B

A

CONSTRUCTION NOTES

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL IDENTIFIED PROPERTY CORNERS, LAND SURVEY CORNERS, AND ACCESSORIES. THE CONTRACTOR SHALL CAUSE THE CORNERS AND ACCESSORIES TO BE REFERENCED BY A LICENSED LAND SURVEYOR, AND ANY SUCH CORNER OR ACCESSORIES DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE RESET BY THE SURVEYOR AT THE ORIGINAL LOCATION, AND FILE THE RESTORATIONS AND MONUMENT DOCUMENTS AS THE LAW REQUIRES.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEERING SURVEYS AND SERVICES FOR REVIEW AND APPROVAL FOR ALL MATERIALS BEFORE ORDERING.
5. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF SIDEWALK, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
6. ALL WORK WITHIN RIGHT-OF-WAY SHALL BE CONSTRUCTED PER BOONE COUNTY SPECIFICATIONS. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES FROM BOONE COUNTY TO WORK WITHIN RIGHT-OF-WAY.
7. ALL STRIPING SHALL BE A MINIMUM OF 2 COATS OF RETROREFLECTIVE.
8. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
9. ALL TRAFFIC CONTROL SHALL BE PER CURRENT MUTCD REQUIREMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ANY WORK WITHIN THE RIGHT-OF-WAY AND SHALL BE APPROVED AND PERMITTED BY THE CITY OF COLUMBIA PRIOR TO CONSTRUCTION.
10. IF A CONFLICT EXISTS BETWEEN THE CIVIL PLANS AND CIVIL SPECIFICATIONS, THE CIVIL PLANS SHALL GOVERN.
11. ALL BIKE RACKS SHALL BE HUNTCO RAMBLER MODEL BR9, 2" STEEL PIPE, 36" HEIGHT, FLANGE MOUNT, WITH HOT DIPPED GALVANIZED FINISH, OR APPROVED EQUAL.
12. CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES.
13. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SITE ACCESS AT ALL TIMES. THIS INCLUDES TEMPORARY ACCESS TO THE BACK OF THE BUILDING. ALL TEMPORARY ACCESS IMPROVEMENTS SHALL BE REMOVED AND DISTURBED AREAS SHALL BE RESTORED TO PRE PROJECT CONDITIONS.
15. EROSION CONTROL BLANKETS OR MATS SHALL NOT BE INSTALLED WITHOUT OWNERS PRIOR APPROVAL.

SEQUENCE OF EVENTS

1. PRIOR TO CONSTRUCTION, COORDINATE AND HAVE A PRE-CONSTRUCTION MEETING REGARDING SWPPP TRAINING WITH ANYONE INVOLVED IN LAND DISTURBANCE ACTIVITIES.
2. CONTRACTOR SHALL FIELD VERIFY ALL BENCHMARKS AND SURVEY CONTROL POINTS PRIOR TO CONSTRUCTION. CONTACT ENGINEERING SURVEYS & SERVICES REPRESENTATIVES IMMEDIATELY WITH ANY NOTED DISCREPANCIES.
3. CONTRACTOR SHALL DETERMINE ALL UTILITY FIELD LOCATES AS NECESSARY.
4. INSTALL INITIAL PERIMETER EROSION AND SEDIMENT CONTROL PER PLAN.
5. INSTALL SITE LIGHTING PER MEP PLANS. COORDINATE SO SITE HAS OPERABLE SITE LIGHTING AT ALL TIMES.
6. STRIP TOPSOIL AND STOCKPILE WHERE INDICATED. IMMEDIATELY PLACE SEDIMENT CONTROL AROUND STOCKPILE PER PLAN.
7. COMMENCE SITE DEMOLITION PER PLAN.
8. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED, MULCHED, AND WATERED, EXCEPT AS PRECLUDED BY SNOW COVER. IN THE EVENT OF SNOW COVER, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL THEREAFTER. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL CEASE FOR 12 MONTHS OR MORE SHALL BE PERMANENTLY SEEDED AND MULCHED.
9. MAINTAIN ALL WEATHER ACCESS TO SITE AREAS AS REQUIRED BY OWNER THROUGHOUT THE PROJECT.
10. COMMENCE BUILDING AND STORM SEWER CONSTRUCTION. INSTALL STORM SEWER INLET PROTECTION IMMEDIATELY UPON COMPLETION OF EACH STRUCTURE. INSTALL OTHER CONTROL DEVICES AS CONSTRUCTION ALLOWS.
11. FINALIZE PAVEMENT SUBGRADE PREPARATION IN ACCORDANCE WITH PLANS AND PROJECT SPECIFICATIONS.
12. INSTALL BASE MATERIAL AS REQUIRED FOR PAVED AREAS.
13. COMMENCE PAVEMENT CONSTRUCTION. REMOVE INLET PROTECTION AROUND INLETS NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
14. COMPLETE ALL FINAL GRADING, TOPSOIL PLACEMENT, AND HYDROSEEDING OF ALL DISTURBED AREAS.
15. INSTALL SITE LANDSCAPING PER PLAN.
16. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WHEN DISTURBED AREAS ARE STABILIZED. FINISH GRADE AND RESEED THESE AREAS AS NECESSARY.

GRADING AND STORM SEWER CONSTRUCTION NOTES

1. ALL STORM SEWER PIPES AND INLETS SHALL MEET HEAVY DUTY TRAFFIC (HS20) LOADING AND BE INSTALLED ACCORDINGLY.
2. ALL HDPE PIPE SHALL BE ADS N-12 ST SOIL TIGHT, SMOOTH INTERIOR PIPE OR APPROVED EQUAL. INSTALLATION SHALL FOLLOW THE "EMBEDMENT OF PLASTIC STORM SEWER PIPE" DETAIL.
3. PVC PIPE MAY BE USED IN LIEU OF HDPE FOR DIAMETERS LESS THAN 15". PVC PIPE SHALL BE SDR 35 OR GREATER, AS REQUIRED BY DEPTH OR AS NOTED IN THESE PLANS.
4. INLINE DRAIN AND DRAIN BASINS SHALL BE NYLOPLAST, HARCO, OR APPROVED EQUAL AND SHALL BE PVC CONFORMING TO ASTM D1784 CELL CLASS 12454. JOINTS SHALL BE WATER TIGHT FLEXIBLE ELASTOMERIC SEALS CONFORMING TO ASTM D3212. INLINE DRAIN AND DRAIN BASIN GRATES AND FRAMES SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05, OR 80-55-06.
5. CONTRACTOR SHALL ADJUST ALL GRATES, MANHOLES, VALVE BOXES, ETC. TO MATCH FINISH GRADES, AS REQUIRED.
6. ALL STRUCTURE CONNECTIONS SHALL BE WATERTIGHT.
7. PIPE LENGTHS ARE GIVEN FROM CENTER OF STRUCTURE OR DOWNSTREAM END OF FLARED END SECTIONS.
8. ALL FLARED END SECTIONS FOR PLASTIC PIPE SHALL BE GALVANIZED METAL, UNLESS OTHERWISE NOTED.
9. ALL EXCESS EARTHEN MATERIAL SHALL BE SPREAD AND COMPACTED ONSITE PER OWNER'S DIRECTION AND STABILIZED PER ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
10. ALL SITES USED FOR IMPORTING OR EXPORTING OF FILL MATERIAL SHALL HAVE AN ACTIVE MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND DISTURBANCE PERMIT, AS REQUIRED.
11. CONTRACTOR SHALL REMOVE OFFSITE ALL TRASH AND DEBRIS, TREES AND BRUSH, AND OTHER MATERIAL CREATED AS A RESULT OF CONSTRUCTION. MATERIAL SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. BURNING ON SITE SHALL NOT BE ALLOWED.
12. CONTRACTOR SHALL REMOVE ALL STUMPS BY EXCAVATING TO INCLUDE REMOVAL OF ASSOCIATED ROOT SYSTEM.
13. CONTRACTOR SHALL NOT ADVANCE TRENCH EXCAVATION BEYOND AMOUNT THAT CAN ACCOMMODATE PIPE INSTALLATION AND BACKFILLING AT THE END OF EACH DAY.
14. ENGINEERED FILL SHOULD BE FREE OF FROZEN SOIL, ORGANICS, RUBBISH, LARGE ROCKS, WOOD, OR OTHER DELETERIOUS MATERIAL. COHESIVE FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY AND BE WITHIN THE MOISTURE CONTENTS AS DESCRIBED IN THE PROJECT GEOTECHNICAL REPORT. GRANULAR FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY. THE MOISTURE CONTENT SHOULD BE HIGH ENOUGH TO PROVIDE FOR PROPER COMPACTION BUT LOW ENOUGH TO PREVENT UNDUE PUMPING. PLACE FILL MATERIAL IN LOOSE LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS.
15. ROCKS AND STONES THAT EXCEED THE THICKNESS OF THE LOOSE LIFT FILL LAYER SHOULD BE REMOVED AND DISPOSED OF OFF THE IMMEDIATE CONSTRUCTION AREA.
16. IMPORTED SOILS PROPOSED FOR USE AS FILL OR BACKFILL SHOULD BE REVIEWED AND ANALYZED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. SOIL CLASSIFIED AS MH, OH, OL, OR PT (HIGH PLASTICITY SOILS AND ORGANIC SOILS) BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487) SHOULD NOT BE IMPORTED FOR USE AS ENGINEERED FILL. SUITABLE IMPORTED MATERIALS FOR GENERAL SITE FILL ARE THOSE THAT CLASSIFY AS GW, GM, GC, SC, AND CL IN ACCORDANCE WITH ASTM D 2487. MATERIALS CLASSIFIED AS CH SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THEIR IMPORTATION AND ONLY USED OUTSIDE THE BUILDING PAD AT DEPTHS BELOW THE UPPER 2 FEET OF SUBGRADE. SUBJECT TO FINAL DESIGN REQUIREMENTS FOR WALL BACKFILL, SUITABLE IMPORTED MATERIALS FOR WALL AND TRENCH BACKFILL ARE THOSE THAT CLASSIFY AS GW, GP, GM, GC, SM, SW, SP, SC, AND CL IN ACCORDANCE WITH ASTM D2487.
17. FILLS PLACED IN AREAS WHERE THE NATURAL SLOPE IS GREATER THAN 5H:1V (HORIZONTAL TO VERTICAL) SHOULD BE BENCHED INTO THE EXISTING GRADE TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND ENGINEERED FILL. BENCHES SHOULD BE LEVEL AND WIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT.
18. FILL AND SUBGRADE CONSTRUCTION SHOULD NOT BE STARTED ON FOUNDATION SOIL, PARTIALLY COMPLETED FILL, OR SUBGRADES THAT CONTAIN FROST OR ICE. FILL SHOULD NOT BE CONSTRUCTED USING FROZEN SOIL. FROZEN SOIL SHOULD BE REMOVED PRIOR TO PLACING FILL MATERIAL.
19. AFTER STRIPPING AND GRUBBING OPERATIONS ARE COMPLETED AND PRIOR TO FILL PLACEMENT, AREAS TO BE FILLED SHALL BE PROOF ROLLED USING A LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY SOFT AND UNSUITABLE AREAS. SOFT MATERIAL MAY BE MOISTURE CONDITIONED AND REUSED AS ENGINEERED FILL, UNSUITABLE AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM SITE.
20. ALL NEW TRENCHES SHOULD BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH APPROPRIATE CONTROLLED ENGINEERED FILL SPECIFICATIONS.
21. FIELD DENSITY TESTS SHOULD BE CONDUCTED IN ACCORDANCE WITH ASTM D6938 (NUCLEAR METHODS) OR ASTM D 1556 (SAND CONE METHOD). FIELD DENSITY TESTS SHOULD BE PERFORMED AT THE RATE OF ONE TEST PER 2,500 SQUARE FEET PER LIFT BENEATH PAVEMENTS, SIDEWALKS, AND OTHER POTENTIAL STRUCTURAL AREAS WITH A MINIMUM OF 3 TESTS PER LIFT AND ONE TEST PER 100 LINEAL FEET PER LIFT FOR FOUNDATION, TRENCH AND WALL BACKFILL.
22. PARKING AREAS AND ASPHALT PLAY AREA SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY ANY SOFT OR UNSUITABLE AREAS, PRIOR TO BASE ROCK PLACEMENT. THE PROOF-ROLL SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER. AREAS IDENTIFIED AS UNSUITABLE SHALL BE REMEDIED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OWNER.
23. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS.
24. CONTRACTOR SHALL PLACE STOCKPILED TOPSOIL FROM SITE IN ALL LANDSCAPE AREAS TO A MINIMUM DEPTH OF 6", UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS.
25. THE HAUL OFF OR HAUL ON OF ALL MATERIALS AS NECESSARY TO COMPLETE THE PROJECT AS SHOWN IN THESE PLANS SHALL BE BY THE CONTRACTOR AND INCLUDED IN THE BASE BID.
26. ALL CONTOURS AND SPOT ELEVATIONS ARE TO FINISH GRADE.

STORM WATER POLLUTION PREVENTION PLAN NOTES

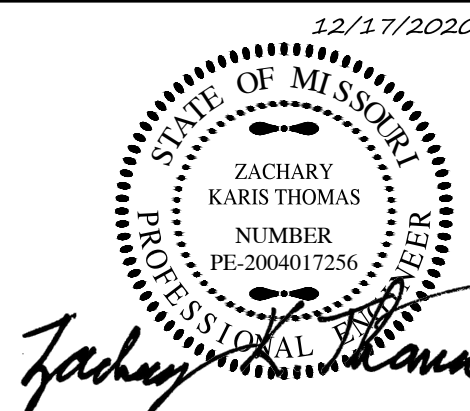
1. CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. A COPY OF THIS PLAN, SWPPP, AND ALL PERMITS SHALL REMAIN ON SITE THROUGHOUT CONSTRUCTION.
2. CONTRACTORS ARE REQUIRED TO SUBMIT TO BOONE COUNTY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE SWPPP, IF REQUESTED.
3. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVAL HAS BEEN RECEIVED FROM ALL GOVERNING AUTHORITIES.
4. IMMEDIATELY UPON COMPLETION OF FINISH GRADING IN EACH AREA, ALL LANDSCAPING AREAS SHALL BE SEEDED/SODDED PER PLANS, AND OR SPECIFICATIONS.
5. SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED IN THE SWPPP.
6. SITE INSPECTION SHOULD OCCUR ON A REGULAR SCHEDULE AND WITHIN 24 HOURS OF A STORM EVENT OF 0.25 INCHES OR GREATER. REGULARLY SCHEDULED INSPECTION SHALL BE A MINIMUM OF ONCE EVERY 7 CALENDAR DAYS. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT.
7. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
8. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
10. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
11. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS, TREES & BRUSH AND OTHER MATERIAL CREATED AS A RESULT OF THE CONSTRUCTION WORK AND THE SITE SHALL BE RETURNED TO ITS ORIGINAL CONDITION.
12. ALL PERIMETER LANDSCAPED AREAS SHALL BE GRASS COVERED.
13. IN ORDER TO TERMINATE A MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) STATE OPERATING PERMIT, THE CONTRACTOR SHALL SUBMIT A REQUEST FOR TERMINATION OF OPERATING PERMIT FORM TO MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHOULD BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA.
14. THE SITE CONTRACTOR SHALL INCLUDE MAINTENANCE OF ALL BMP'S AS PART OF THEIR CONTRACT AND SHALL BE RESPONSIBLE FOR THE PROJECT UNTIL THE NPDES PERMIT IS TERMINATED.

UTILITY CONSTRUCTION NOTES

1. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR AND THE PROPER UTILITY COMPANY PROVIDING SERVICE PRIOR TO THE START OF CONSTRUCTION.
2. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
3. UTILITY TIE-INS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO MEP PLANS FOR EXACT TIE-IN OF ALL UTILITIES.
4. SITE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
5. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY (ASTM D-698).
6. ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
7. TOPS OF EXISTING HANDHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED FINISHED ELEVATIONS.
8. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE FINAL CONNECTION OF SERVICE.
9. REFER TO MEP PLANS FOR SITE LIGHTING, WATER, AND TELECOMMUNICATION PLANS.
10. A MINIMUM 18" OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE ELECTRIC CONDUIT AND THE OUTSIDE OF THE WATER, STORM SEWER, SANITARY SEWER, OR GAS PIPES AT ALL CROSSINGS.
11. THE SITE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND CONSTRUCT ALL UTILITY CROSSINGS SO GRAVITY DRAINED SEWERS CAN BE CONSTRUCTED TO THE GRADES INDICATED ON THESE PLANS.

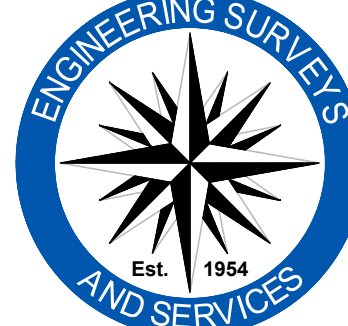
HAZARDOUS SUBSTANCE NOTE

1. SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
2. ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.
3. THE APPLICANT SHALL NOTIFY BY TELEPHONE AND IN WRITING THE DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL PROGRAM, POST OFFICE BOX 176, JEFFERSON CITY, MO 65102, 1-800-361-4827, OF ANY OIL SPILLS OR IF HAZARDOUS SUBSTANCES ARE FOUND DURING THE PROSECUTION OF WORK UNDER THIS PERMIT.



ZACHARY K. THOMAS
PROFESSIONAL ENGINEER
PE-2004017256

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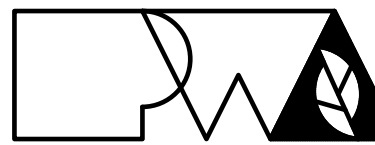


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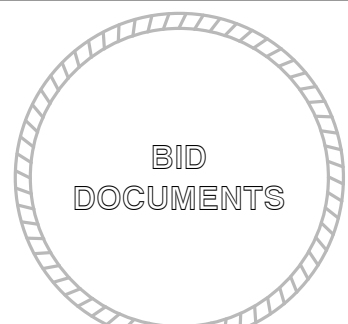
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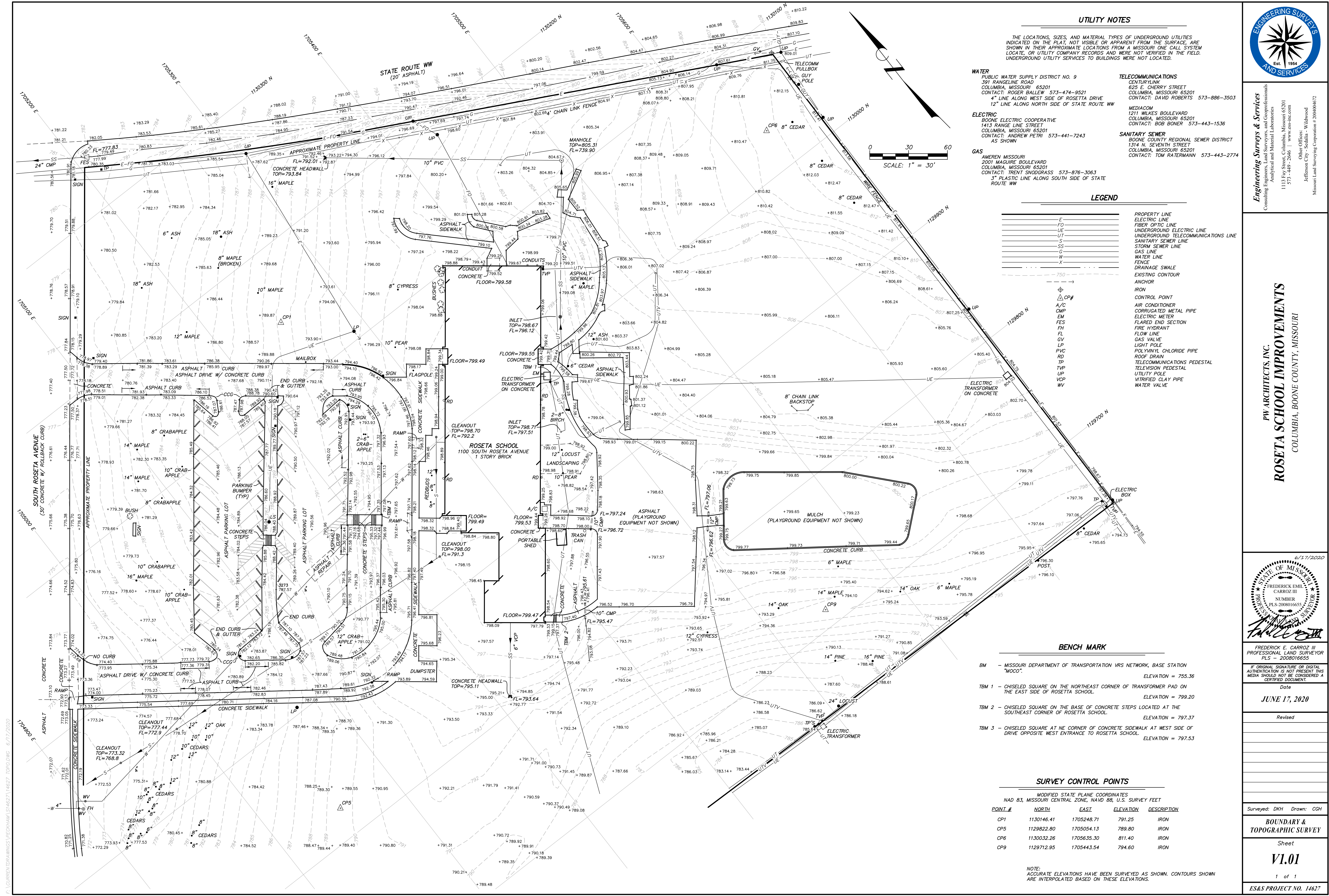
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CENTER ACCESSIBILITY, SAFETY AND SECURITY
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1100 S ROSETA AVENUE
COLUMBIA, MO 65201

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| Drawn: | Project Number: |
| BR | 201621.51 |
| Checked: | CAD File Name (Number): |
| ZKT | |

Drawing Title:
GENERAL NOTES

| No. | Revisions: | Date: |
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| 1 | OWNER COMMENTS | 12/17/20 |
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| Submission Date: | Drawing Number: |
| 6/25/2020 | C0.02 |
| Plot Date: | |
| 12/15/2020 | |



UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAN, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD. UNDERGROUND UTILITY SERVICES TO BUILDINGS WERE NOT LOCATED.

WATER
PUBLIC WATER SUPPLY DISTRICT NO. 9
CENTURYLINE ROAD
COLUMBIA, MISSOURI 65201
CONTACT: ROGER BALLEW 573-474-9521
4" LINE ALONG WEST SIDE ROSETTA DRIVE
12" LINE ALONG NORTH SIDE OF STATE ROUTE WW

ELECTRIC
BOONE ELECTRIC COOPERATIVE
1413 RANGE LINE STREET
COLUMBIA, MISSOURI 65201
CONTACT: ANDREW PETRI 573-441-7243
AS SHOWN

GAS
AMEREN MISSOURI
2001 MAGUIRE BOULEVARD
COLUMBIA, MISSOURI 65201
CONTACT: TRENT SNOODGRASS 573-876-3063
3" PLASTIC LINE ALONG SOUTH SIDE OF STATE ROUTE WW

TELECOMMUNICATIONS
CENTURYLINE
625 E. CHERRY STREET
COLUMBIA, MISSOURI 65201
CONTACT: DAVID ROBERTS 573-886-3503

MEDIACOM
1211 MILKES BOULEVARD
COLUMBIA, MISSOURI 65201
CONTACT: BOB BONER 573-443-1536

SANITARY SEWER
BOONE COUNTY REGIONAL SEWER DISTRICT
1314 N. SEVENTH STREET
COLUMBIA, MISSOURI 65201
CONTACT: TOM RATERMANN 573-443-2774

LEGEND

| | |
|-----|-------------------------------------|
| --- | PROPERTY LINE |
| --- | ELECTRIC LINE |
| --- | FIBER OPTIC LINE |
| --- | UNDERGROUND ELECTRIC LINE |
| --- | UNDERGROUND TELECOMMUNICATIONS LINE |
| --- | SANITARY SEWER LINE |
| --- | STORM SEWER LINE |
| --- | GAS LINE |
| --- | WATER LINE |
| --- | FENCE |
| --- | DRAINAGE SWALE |
| --- | EXISTING CONTOUR |
| --- | ANCHOR |
| --- | IRON |

| | |
|-------|-----------------------------|
| △ CP# | CONTROL POINT |
| A/C | AIR CONDITIONER |
| CMP | CORRUGATED METAL PIPE |
| EM | ELECTRIC METER |
| FES | FLARED END SECTION |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| CV | GAS VALVE |
| LP | LIGHT POLE |
| PVC | POLYVINYL CHLORIDE PIPE |
| RD | ROOF DRAIN |
| TP | TELECOMMUNICATIONS PEDESTAL |
| TVP | TELEVISION PEDESTAL |
| UTV | UTILITY POLE |
| VCP | VITRIFIED CLAY PIPE |
| WV | WATER VALVE |

BENCH MARK

- BM - MISSOURI DEPARTMENT OF TRANSPORTATION VRS NETWORK, BASE STATION "MOCO". ELEVATION = 755.36
- TBM 1 - CHISELED SQUARE ON THE NORTHEAST CORNER OF TRANSFORMER PAD ON THE EAST SIDE OF ROSETTA SCHOOL. ELEVATION = 799.20
- TBM 2 - CHISELED SQUARE ON THE BASE OF CONCRETE STEPS LOCATED AT THE SOUTHEAST CORNER OF ROSETTA SCHOOL. ELEVATION = 797.37
- TBM 3 - CHISELED SQUARE AT NE CORNER OF CONCRETE SIDEWALK AT WEST SIDE OF DRIVE OPPOSITE WEST ENTRANCE TO ROSETTA SCHOOL. ELEVATION = 797.53

SURVEY CONTROL POINTS

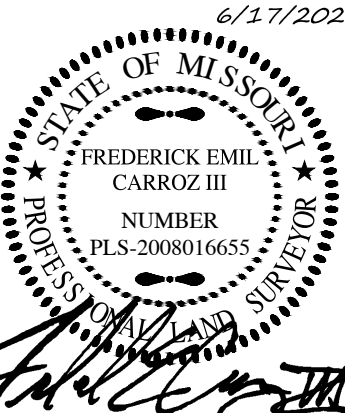
| MODIFIED STATE PLANE COORDINATES NAD 83, MISSOURI CENTRAL ZONE, NAD 83, U.S. SURVEY FEET | | | | |
|---|------------|------------|-----------|-------------|
| POINT # | NORTH | EAST | ELEVATION | DESCRIPTION |
| CP1 | 1130146.41 | 1705248.71 | 791.25 | IRON |
| CP5 | 1129822.80 | 1705054.13 | 789.80 | IRON |
| CP6 | 1130032.26 | 1705635.30 | 811.40 | IRON |
| CP9 | 1129712.95 | 1705443.54 | 794.60 | IRON |

NOTE:
ACCURATE ELEVATIONS HAVE BEEN SURVEYED AS SHOWN. CONTOURS SHOWN ARE INTERPOLATED BASED ON THESE ELEVATIONS.



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573-449-2646 | www.ess-inc.com
Other Offices:
Jefferson City - Sedalia - Willowood
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COLUMBIA, BOONE COUNTY, MISSOURI



FREDERICK E. CARROZ III
PROFESSIONAL LAND SURVEYOR
PLS - 2008016655

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Date
JUNE 17, 2020

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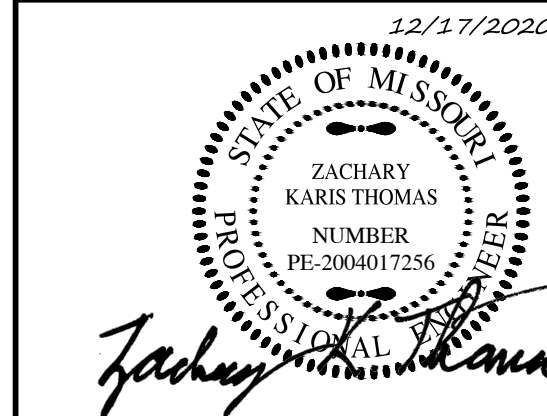
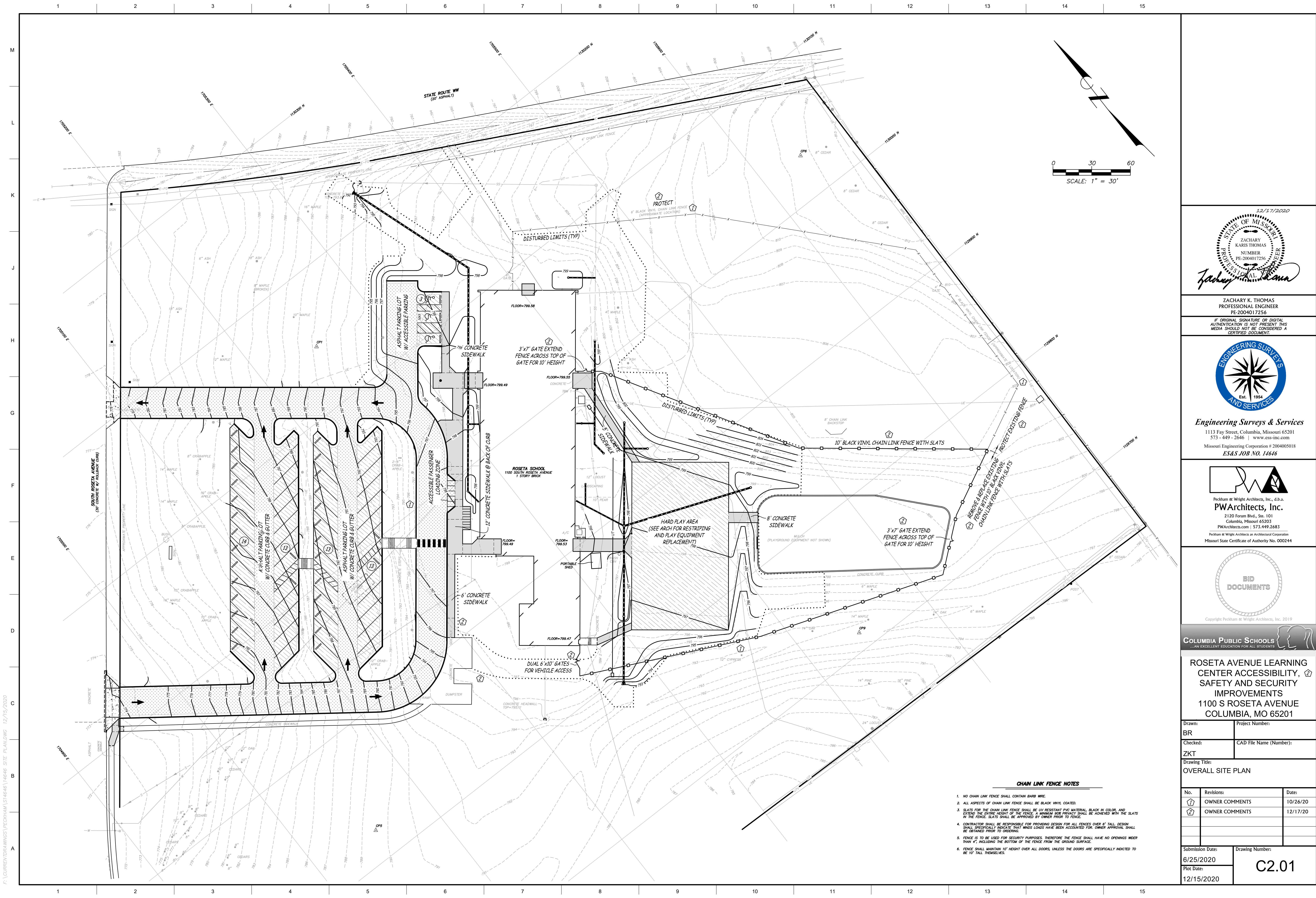
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BOUNDARY & TOPOGRAPHIC SURVEY

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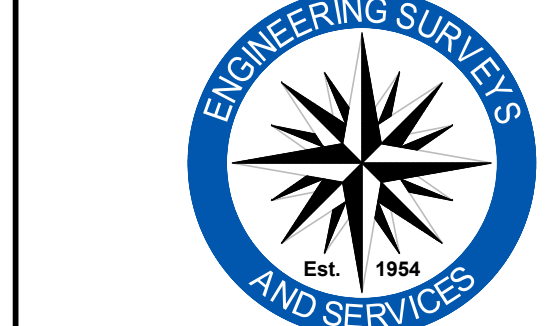


F:\CURRENT DRAWINGS\PECKHAM\14646\14646 SITE PLANNING 12/15/2020

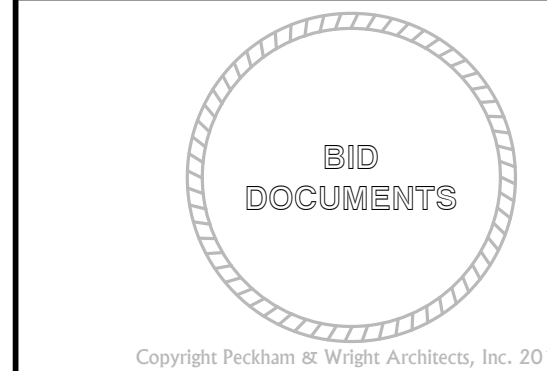


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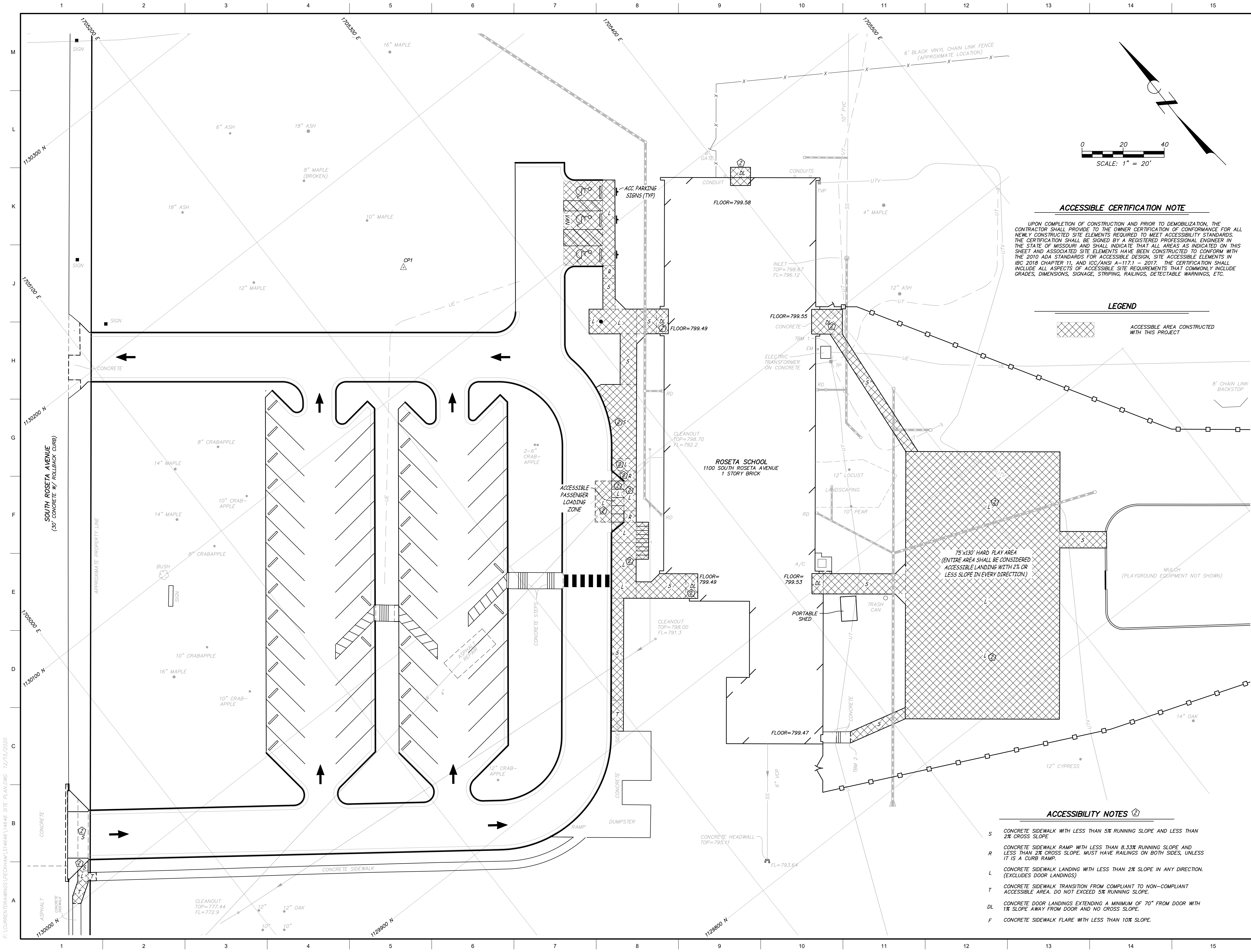


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| Drawn: BR | | Project Number: | |
| Checked: ZKT | | CAD File Name (Number): | |
| Drawing Title: OVERALL SITE PLAN | | | |
| No. | Revisions: | Date: | |
| ① | OWNER COMMENTS | 10/26/20 | |
| ② | OWNER COMMENTS | 12/17/20 | |
| | | | |
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| Submission Date: 6/25/2020 | | Drawing Number: C2.01 | |
| Plot Date: 12/15/2020 | | | |



ACCESSIBLE CERTIFICATION NOTE

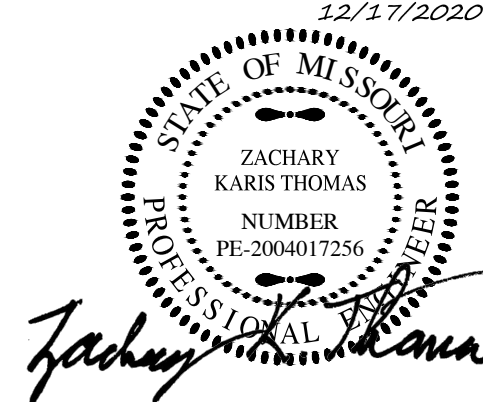
UPON COMPLETION OF CONSTRUCTION AND PRIOR TO DEMOBILIZATION, THE CONTRACTOR SHALL PROVIDE TO THE OWNER CERTIFICATION OF CONFORMANCE FOR ALL NEWLY CONSTRUCTED SITE ELEMENTS REQUIRED TO MEET ACCESSIBILITY STANDARDS. THE CERTIFICATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI AND SHALL INDICATE THAT ALL AREAS AS INDICATED ON THIS SHEET AND ASSOCIATED SITE ELEMENTS HAVE BEEN CONSTRUCTED TO CONFORM WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, SITE ACCESSIBLE ELEMENTS IN IBC 2018 CHAPTER 11, AND ICC/ANSI A-117.1 - 2017. THE CERTIFICATION SHALL INCLUDE ALL ASPECTS OF ACCESSIBLE SITE REQUIREMENTS THAT COMMONLY INCLUDE GRADES, DIMENSIONS, SIGNAGE, STRIPING, RAILINGS, DETECTABLE WARNINGS, ETC.

LEGEND

ACCESSIBLE AREA CONSTRUCTED WITH THIS PROJECT

ACCESSIBILITY NOTES

- S CONCRETE SIDEWALK WITH LESS THAN 5% RUNNING SLOPE AND LESS THAN 2% CROSS SLOPE
- R CONCRETE SIDEWALK RAMP WITH LESS THAN 8.33% RUNNING SLOPE AND LESS THAN 2% CROSS SLOPE. MUST HAVE RAILINGS ON BOTH SIDES, UNLESS IT IS A CURB RAMP.
- L CONCRETE SIDEWALK LANDING WITH LESS THAN 2% SLOPE IN ANY DIRECTION. (EXCLUDES DOOR LANDINGS)
- T CONCRETE SIDEWALK TRANSITION FROM COMPLIANT TO NON-COMPLIANT ACCESSIBLE AREA. DO NOT EXCEED 5% RUNNING SLOPE.
- DL CONCRETE DOOR LANDINGS EXTENDING A MINIMUM OF 70" FROM DOOR WITH 1% SLOPE AWAY FROM DOOR AND NO CROSS SLOPE.
- F CONCRETE SIDEWALK FLARE WITH LESS THAN 10% SLOPE.



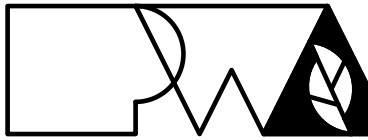
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PROFESSIONAL ENGINEER
PE-2004017256

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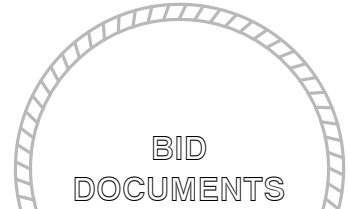


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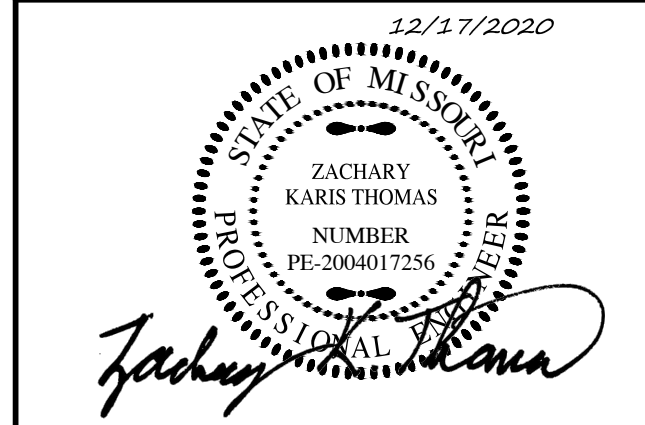
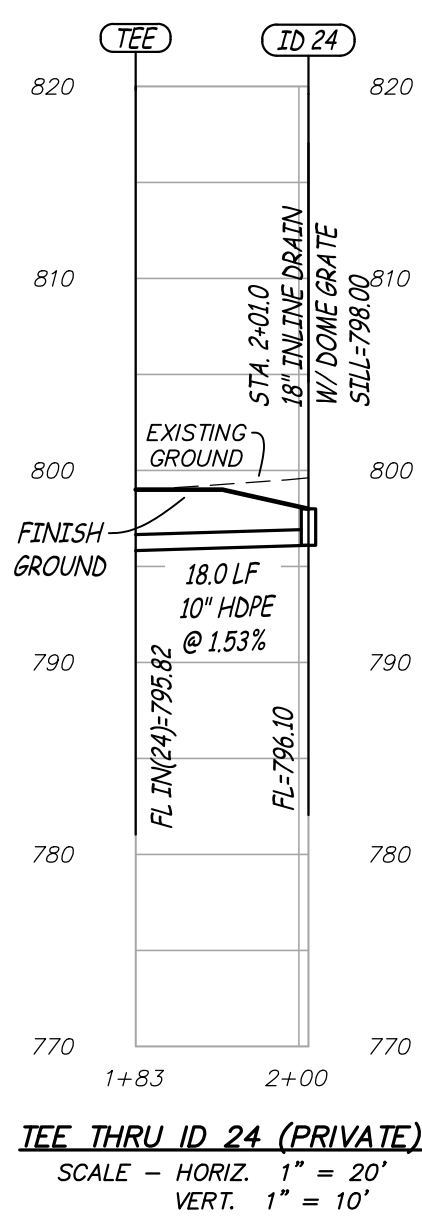
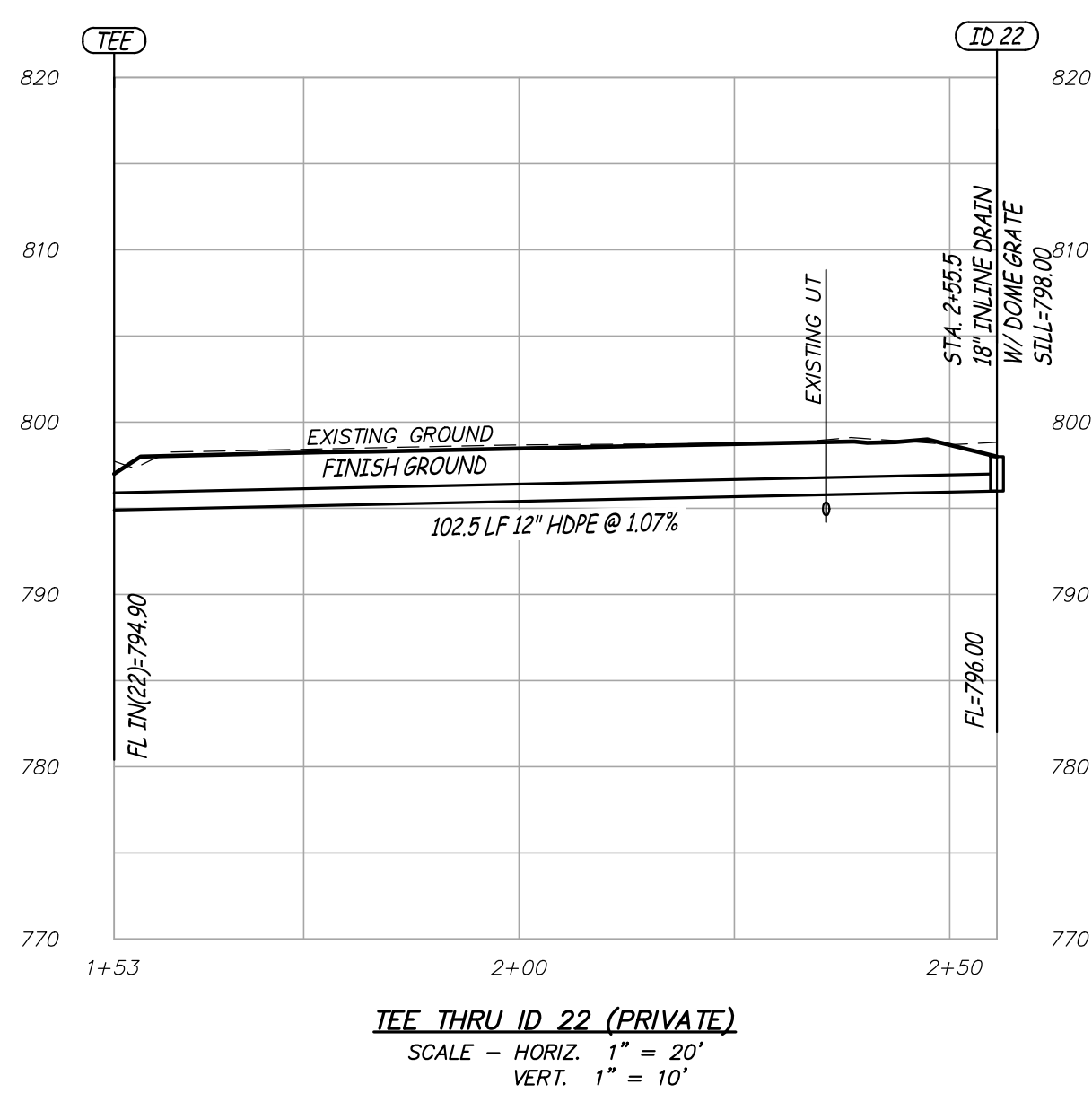
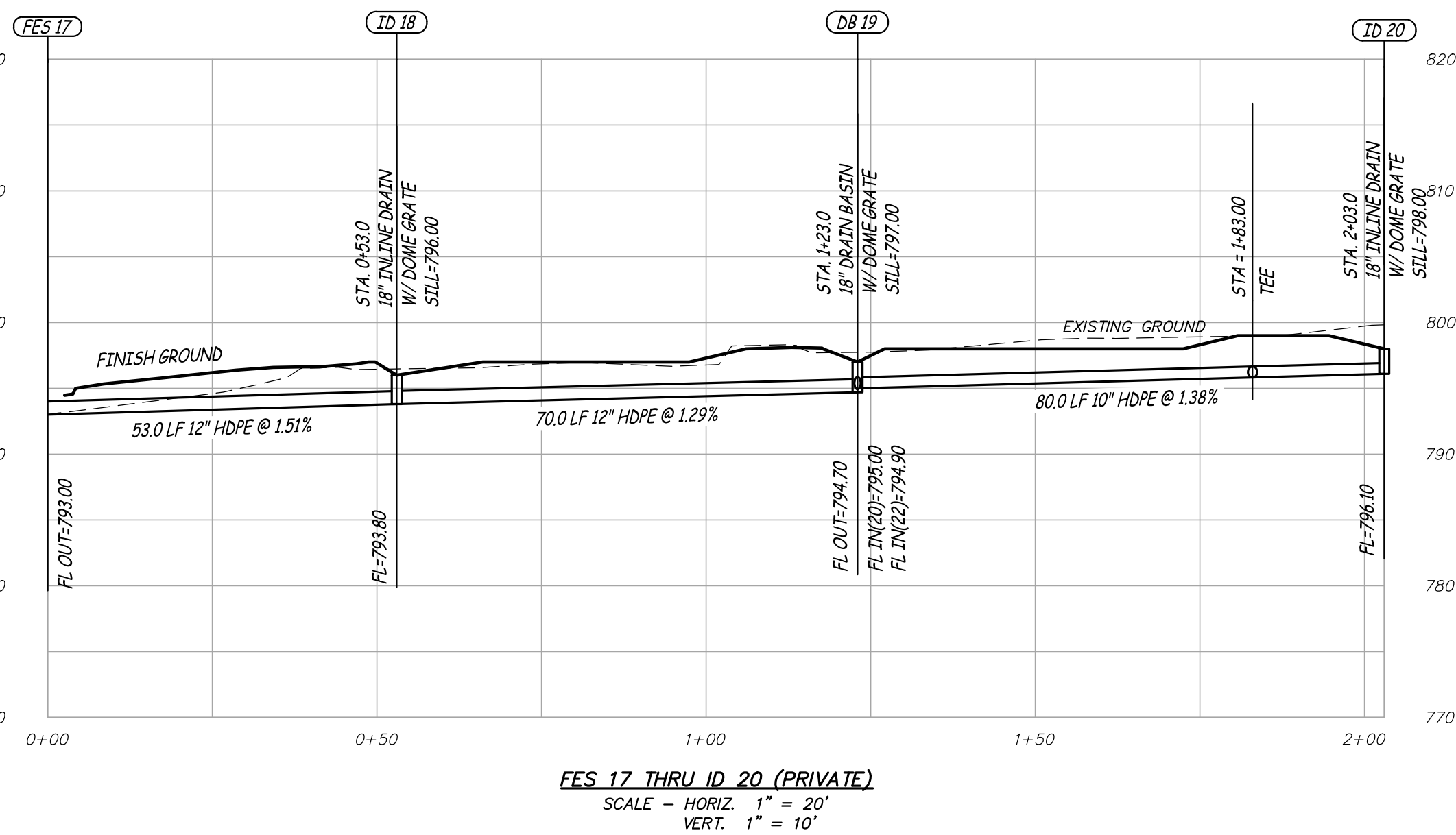
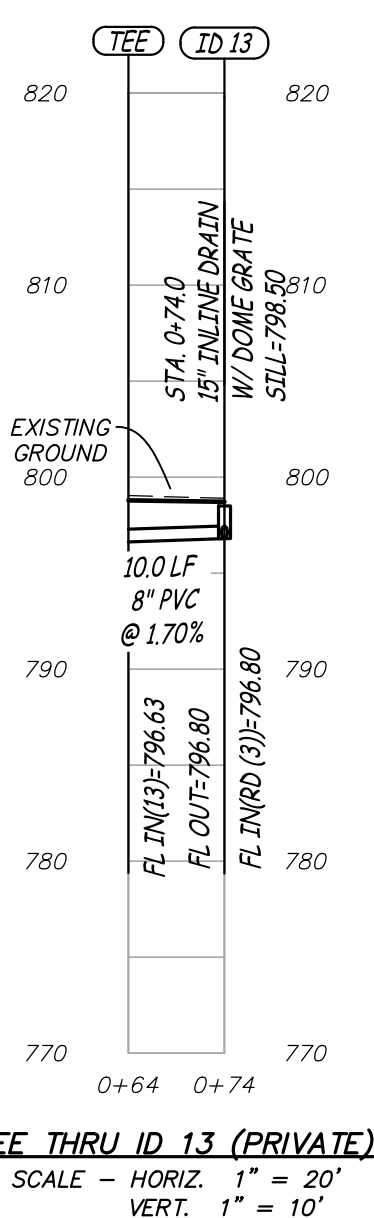
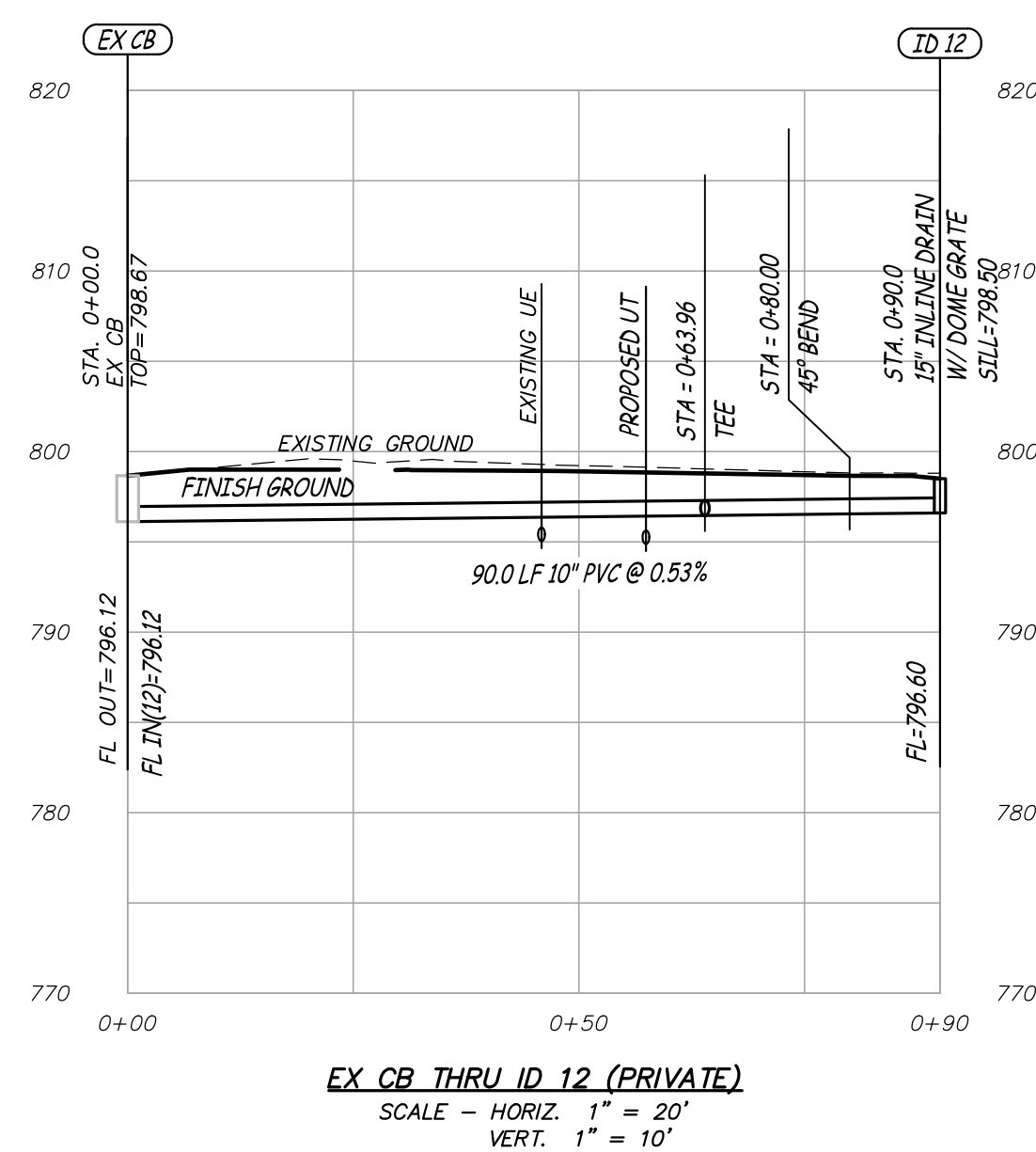
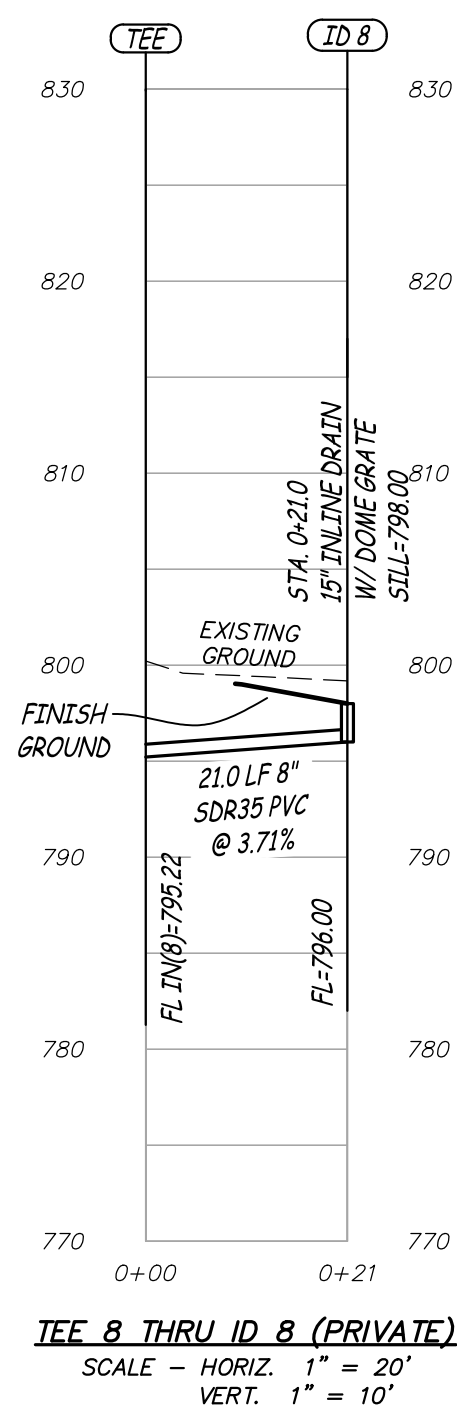
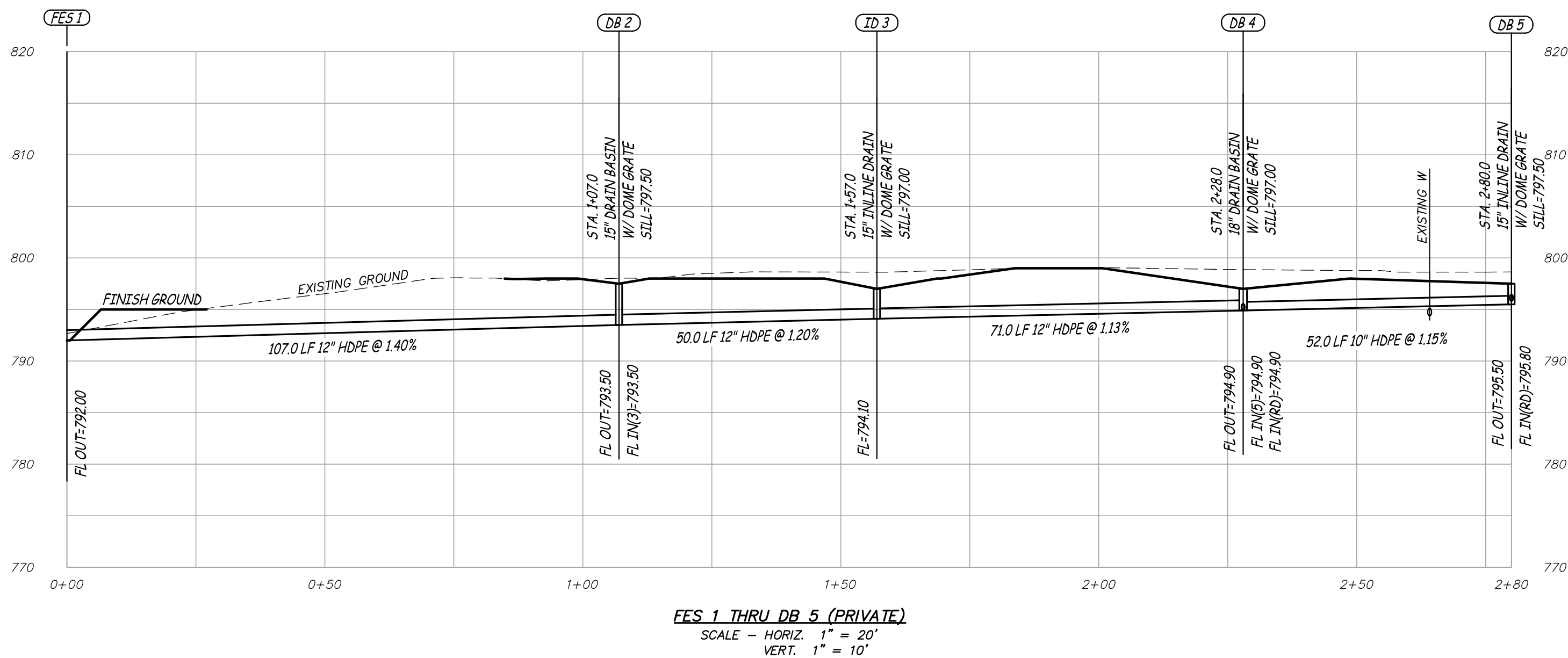
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| Drawn: | Project Number: |
| BR | |
| Checked: | CAD File Name (Number): |
| ZKT | |
| Drawing Title: | |
| SITE PLAN - ACCESSIBLE AREAS | |

| No. | Revisions: | Date: |
|-----|----------------|----------|
| 1 | OWNER COMMENTS | 12/17/20 |
| | | |
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| Submission Date: | Drawing Number: |
| 10/26/2020 | C3.02 |
| Plot Date: | |
| 12/15/2020 | |

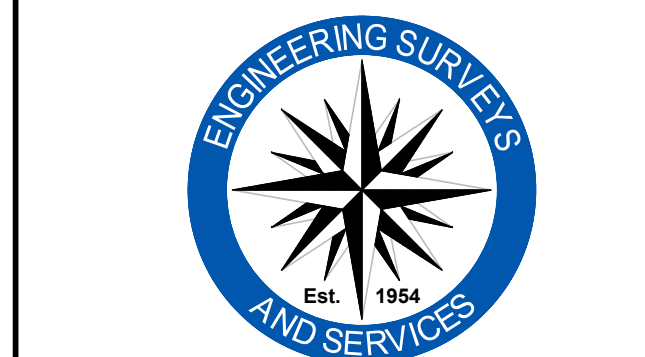


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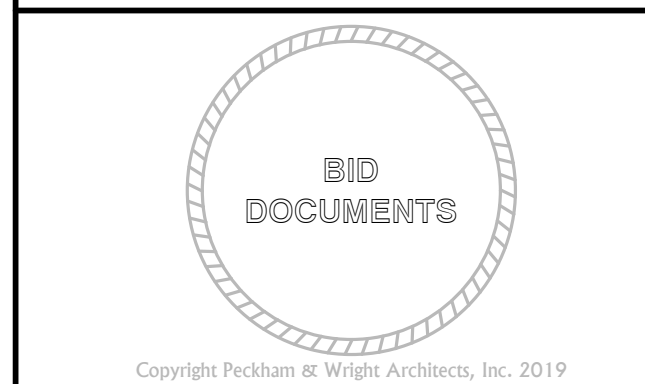


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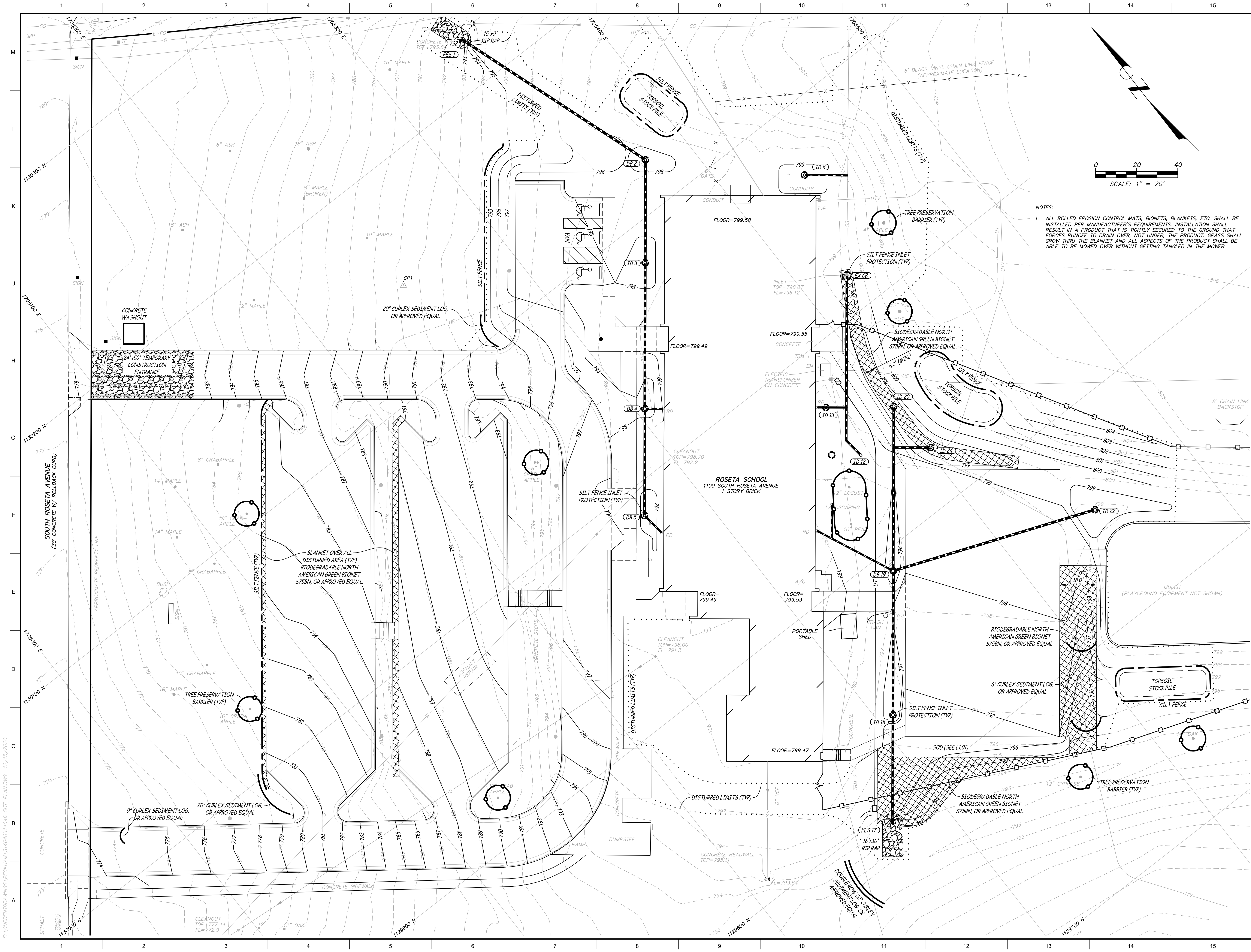


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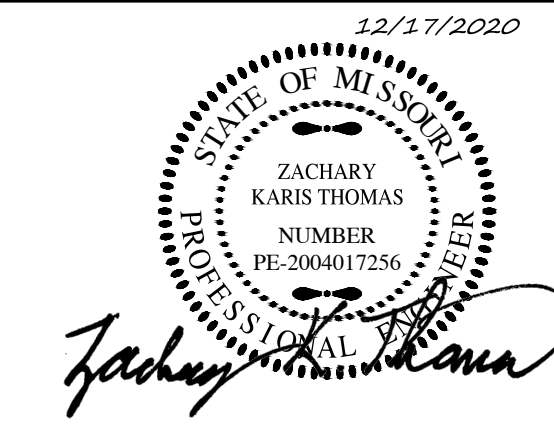
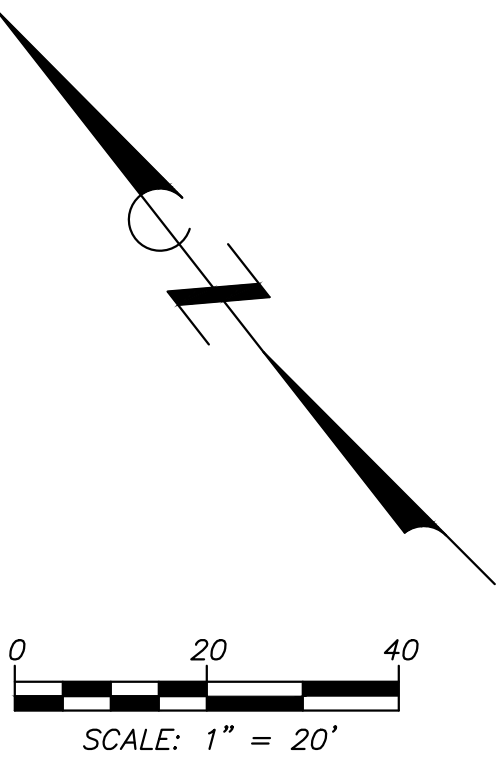


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| Drawn: BR | Project Number: |
| Checked: ZKT | CAD File Name (Number): |
| Drawing Title: STORM SEWER PROFILES | |
| No. 1 | Revisions: OWNER COMMENTS |
| Date: 12/17/20 | |
| Submission Date: 6/25/2020 | |
| Plot Date: 12/15/2020 | |
| Drawing Number: C5.01 | |



- NOTES:
1. ALL ROLLED EROSION CONTROL MATS, BIONETS, BLANKETS, ETC. SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. INSTALLATION SHALL RESULT IN A PRODUCT THAT IS TIGHTLY SECURED TO THE GROUND THAT FORCES RUNOFF TO DRAIN OVER, NOT UNDER THE PRODUCT. GRASS SHALL GROW THRU THE BLANKET AND ALL ASPECTS OF THE PRODUCT SHALL BE ABLE TO BE MOWED OVER WITHOUT GETTING TANGLED IN THE MOWER.

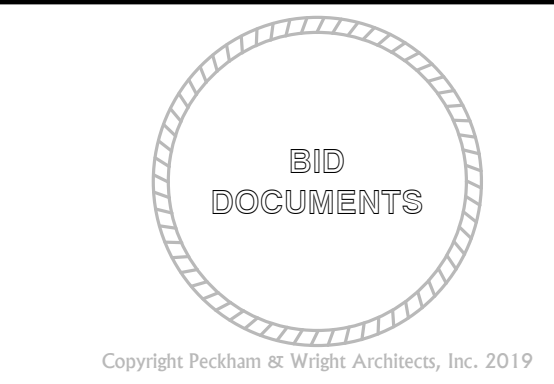


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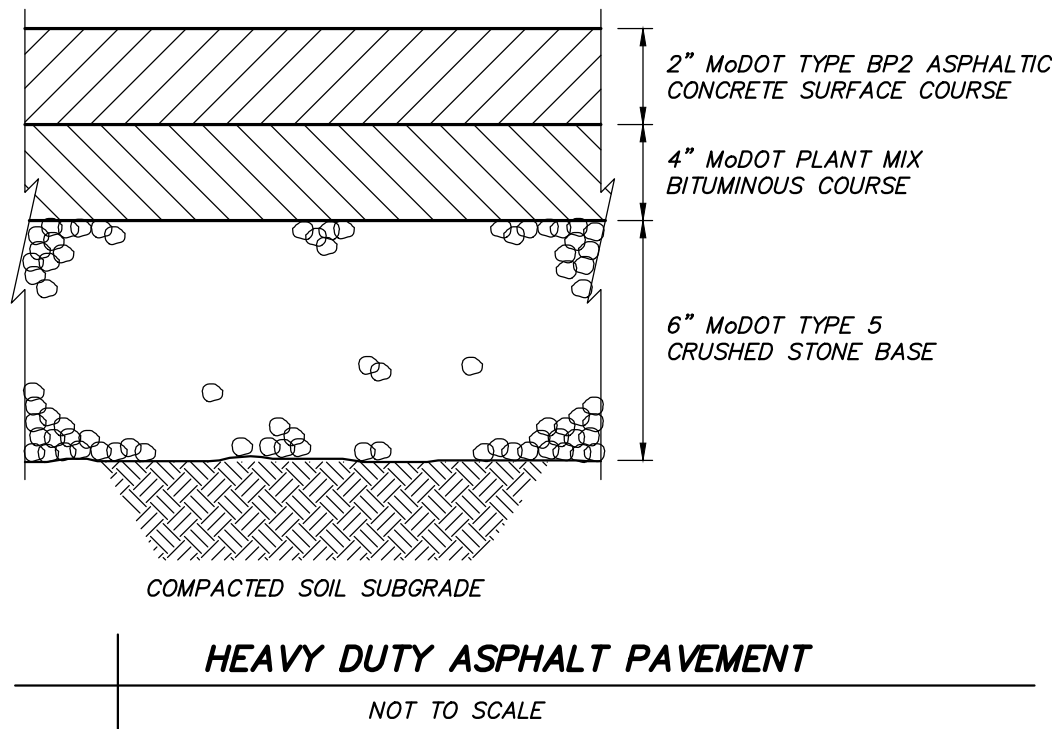


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| BR | |
| Checked: | CAD File Name (Number): |
| ZKT | |
| Drawing Title: | |
| EROSION CONTROL PLAN | |

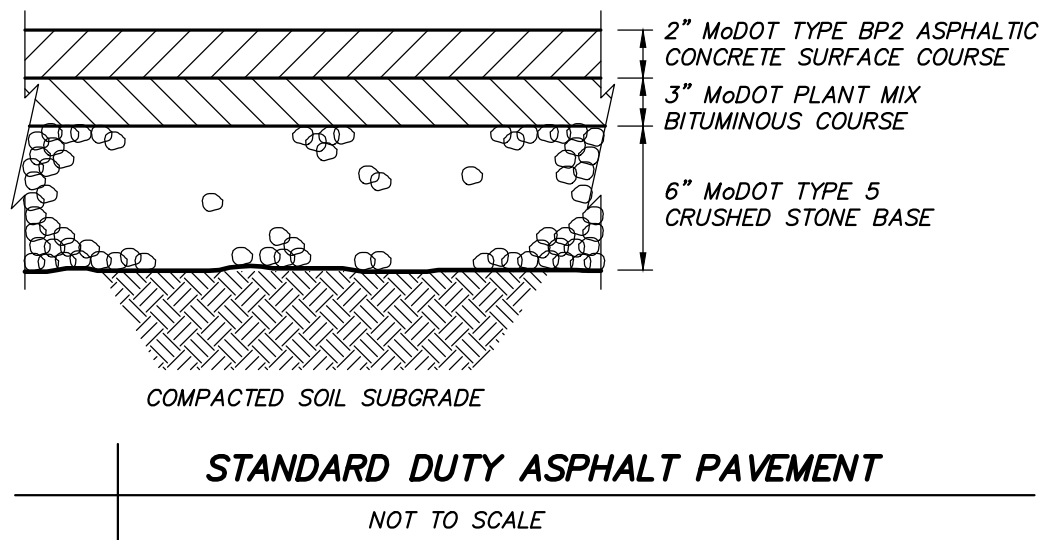
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| 2 | OWNER COMMENTS | 12/17/20 |
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| Submission Date: | Drawing Number: |
| 6/25/2020 | C6.01 |
| Plot Date: | |
| 12/15/2020 | |



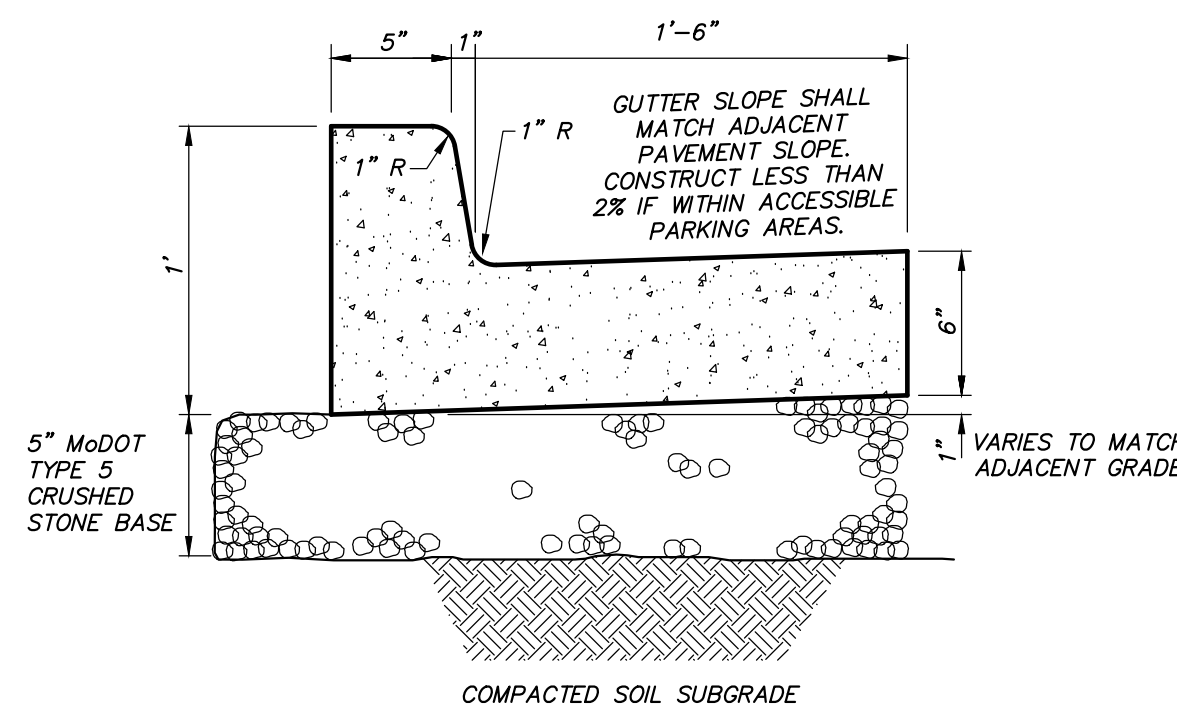
HEAVY DUTY ASPHALT PAVEMENT

NOT TO SCALE



STANDARD DUTY ASPHALT PAVEMENT

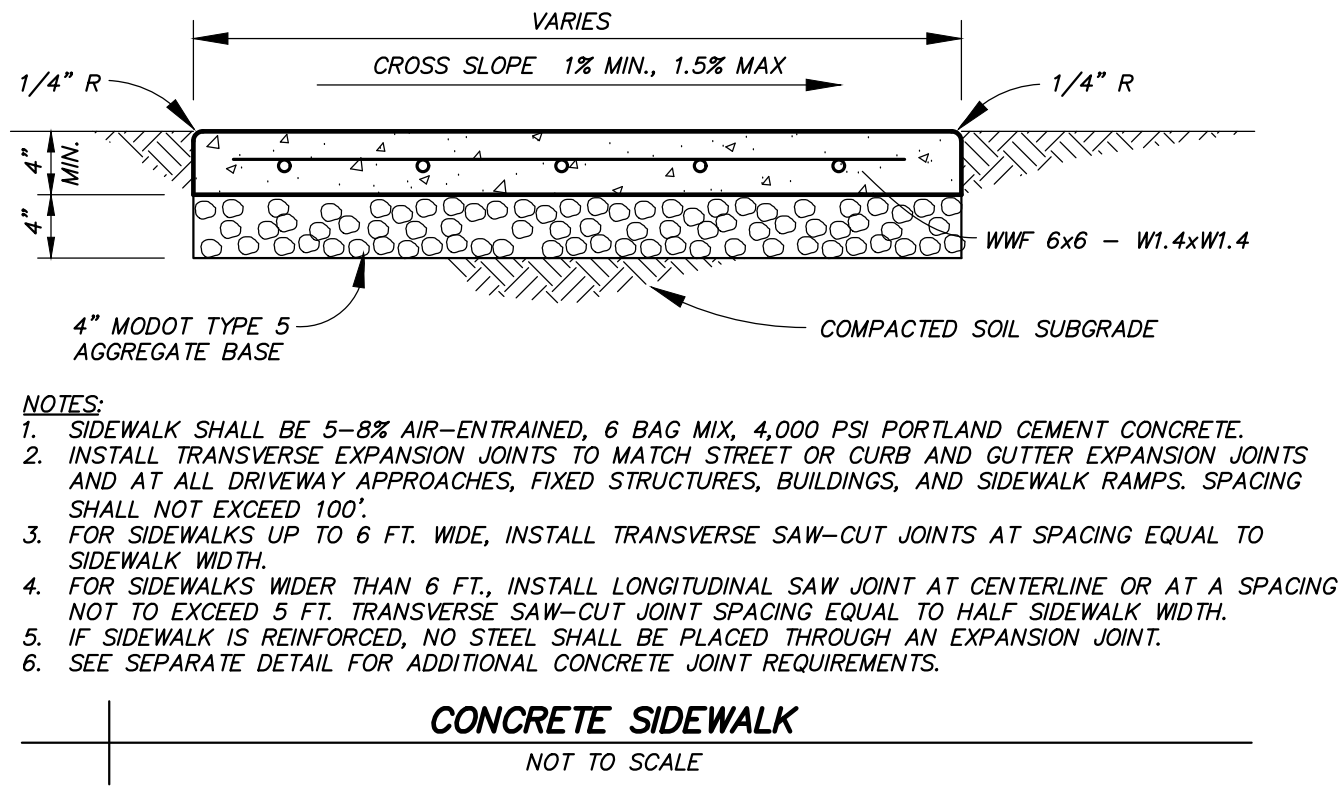
NOT TO SCALE



- NOTES:
1. CURB AND GUTTER MAY BE INTEGRAL IF CONCRETE PAVEMENT IS USED.
 2. INSTALL TRANSVERSE EXPANSION JOINTS TO MATCH ADJACENT PAVEMENT, OR AT EVERY 150' MAX.
 3. INSTALL SAW-CUT JOINTS TO MATCH ADJACENT PAVEMENT OR EVERY 10' MAX.
 4. SAW-CUT JOINTS SHALL EXTEND THROUGH THE ENTIRE CURB SECTION FROM THE TOP OF CURB TO A DEPTH OF 2" BELOW THE GUTTER SURFACE.

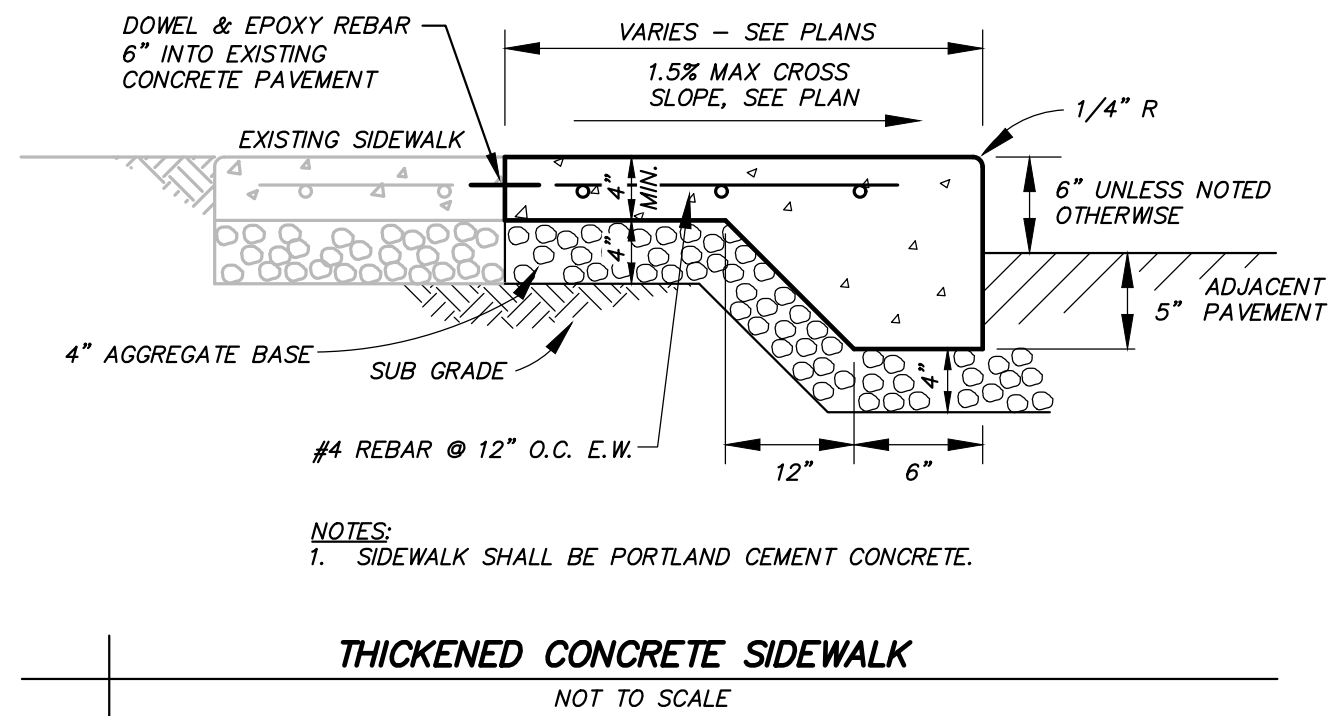
6" CONCRETE CURB & GUTTER SECTION (PRIVATE ONLY)

NOT TO SCALE



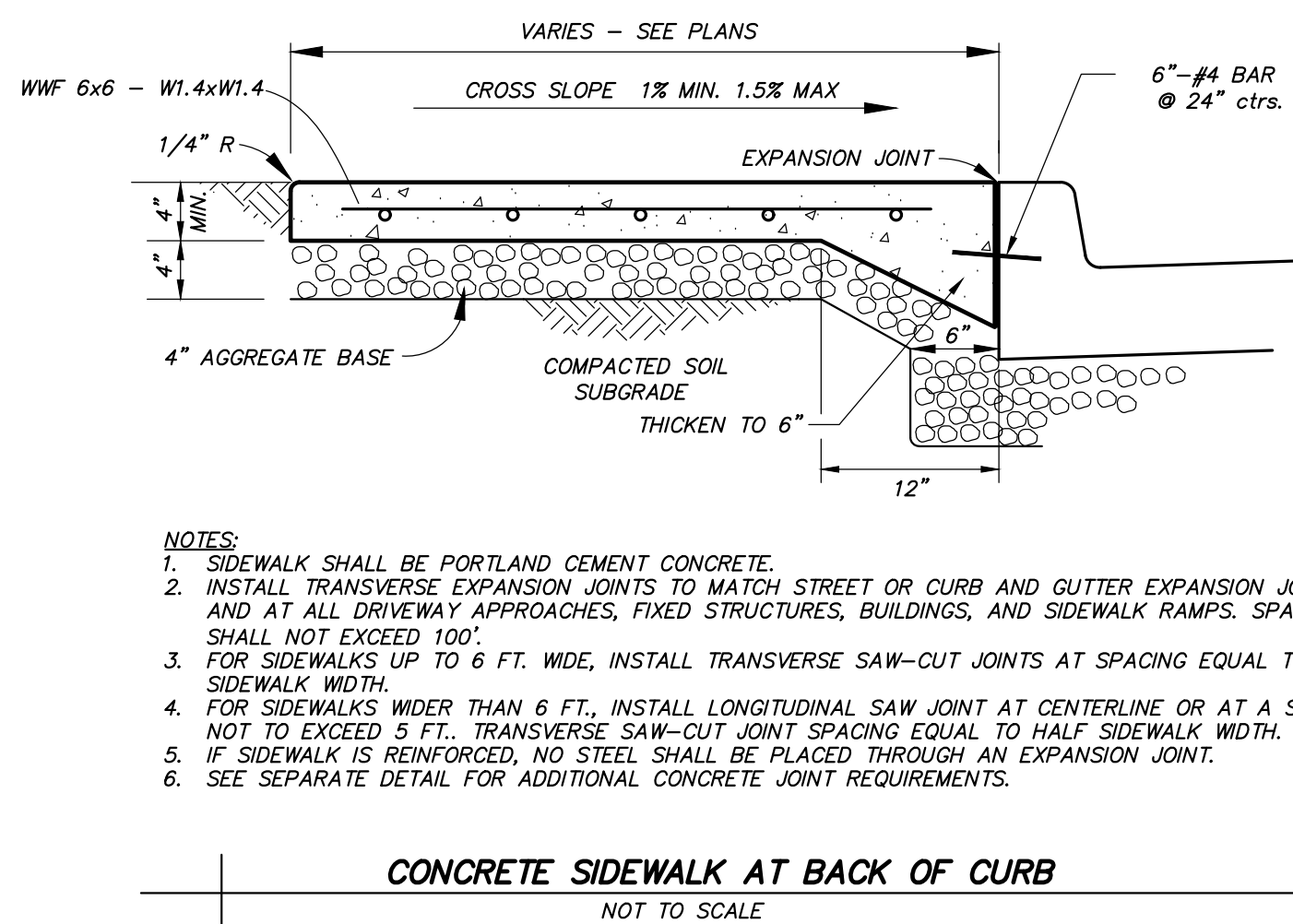
CONCRETE SIDEWALK

NOT TO SCALE



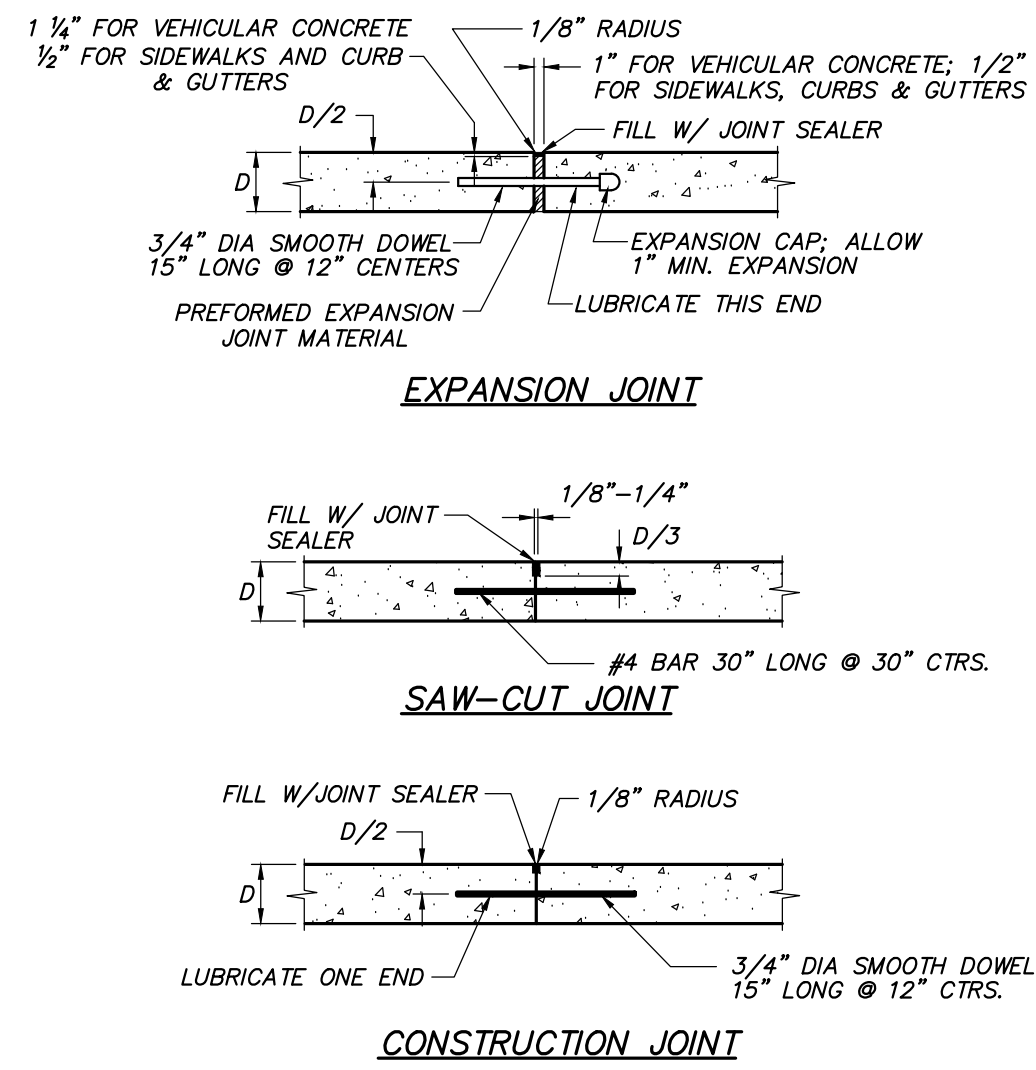
THICKENED CONCRETE SIDEWALK

NOT TO SCALE



CONCRETE SIDEWALK AT BACK OF CURB

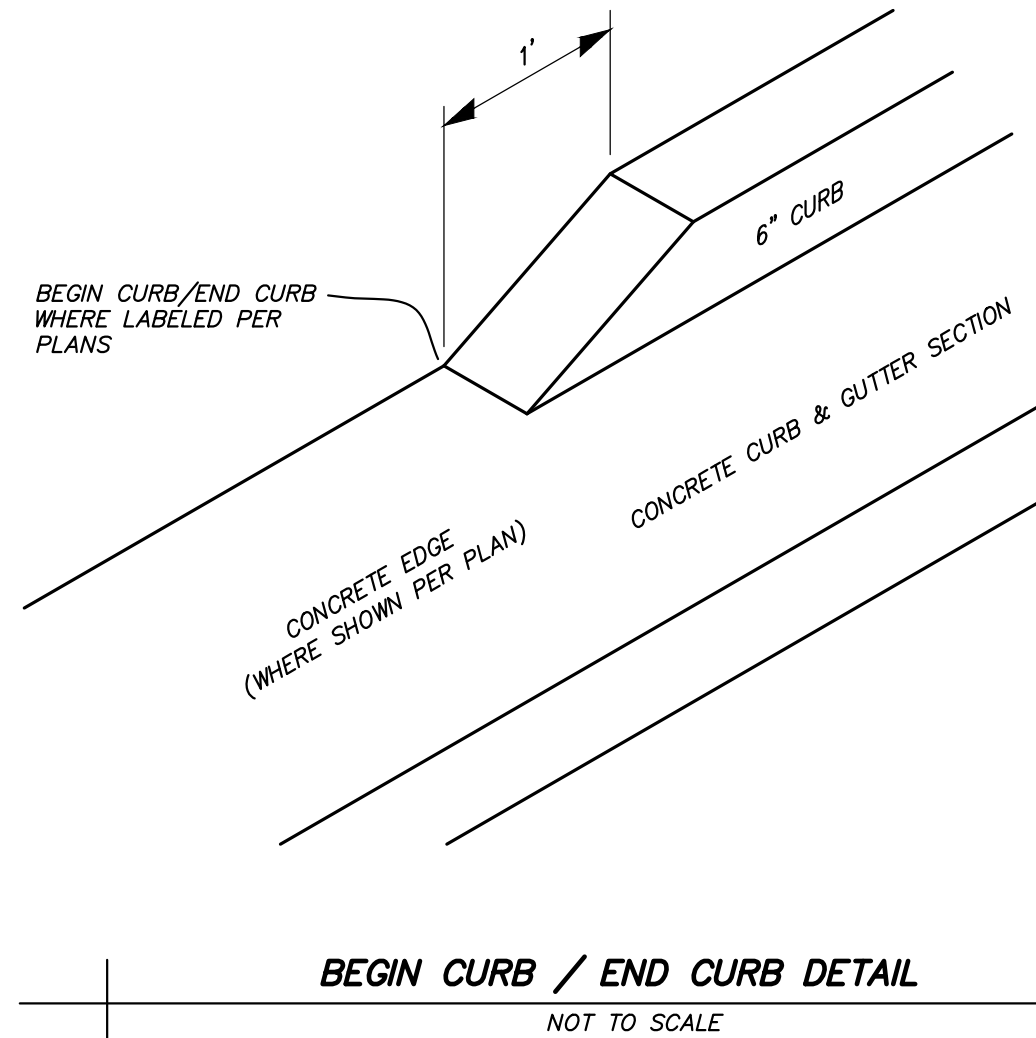
NOT TO SCALE



- NOTES:
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PAVEMENT JOINT PLAN OF ALL CONCRETE PAVEMENT FOR APPROVAL.
 2. CONCRETE PAVEMENT SHALL HAVE SAW-CUT OR CONSTRUCTION JOINTS EVERY 10 FEET FOR 4 INCH THICK PAVEMENT, 12 FEET FOR 5 INCH THICK PAVEMENT, AND 15 FEET FOR 6 INCH THICK PAVEMENT OR GREATER. PANELS SHALL BE CUT SUCH THAT PANELS ARE NEARLY SQUARE AND DO NOT EXCEED 1.4 LENGTH TO WIDTH RATIO. EXPANSION JOINTS SHALL BE PROVIDED AT ALL FIXED STRUCTURES, SUCH AS LIGHT STANDARD FOUNDATIONS, SEWER STRUCTURES, BUILDINGS, WALLS, BOTTOM OF STAIRS, ROOF DRAINS, ETC., AND EVERY 150 FEET MAXIMUM. DOWEL BARS SHALL BE PROVIDED AT TRANSVERSE JOINTS IN ALL HEAVY DUTY PAVEMENT DRIVE AISLES, CURBS & GUTTERS, AND SIDEWALKS.
 3. THIS DETAIL APPLIES TO ALL CONCRETE PAVEMENT FOR PARKING LOTS, DRIVE/ACCESS AISLES, CURBS & GUTTERS, AND SIDEWALKS.
 4. INCLUDE BAR WITH TRANSVERSE SAW-CUT JOINTS FOR HEAVY DUTY PAVEMENT. OMIT BAR WITH SAW-CUT JOINTS FOR STANDARD DUTY PAVEMENT AND SIDEWALKS.
 5. PROVIDE CONSTRUCTION JOINT AT END OF DAYS WORK OR IF CONCRETE PLACEMENT IS SUSPENDED FOR MORE THAN 30 MINUTES.
 6. SAW-CUT JOINTS SHALL BE CUT WITHIN 12 HOURS OF INITIAL SET OF CONCRETE. RAVELED JOINTS WILL NOT BE ACCEPTED.
 7. JOINT SEALANT IS REQUIRED FOR ALL JOINTS AND SHALL BE LIGHT GRAY IN COLOR.
 8. OMIT DOWEL BARS FOR EXPANSION JOINTS AT BUILDINGS, LIGHT STANDARDS, AND ROOF DRAINS.

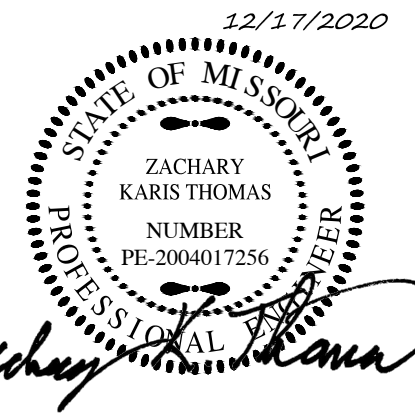
CONCRETE PAVEMENT JOINTS (PRIVATE ONLY)

NOT TO SCALE



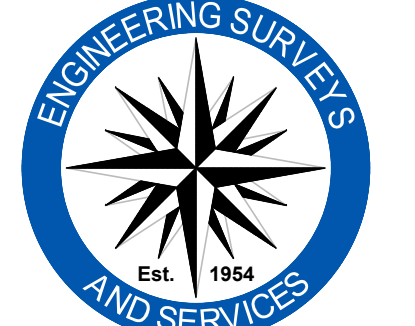
BEGIN CURB / END CURB DETAIL

NOT TO SCALE



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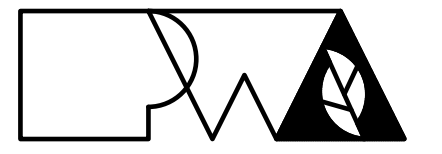
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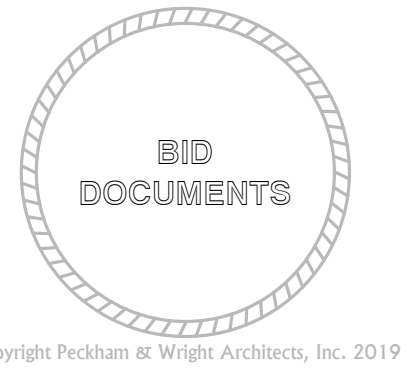
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Project Number: 201621.51

Checked: ZKT
CAD File Name (Number):

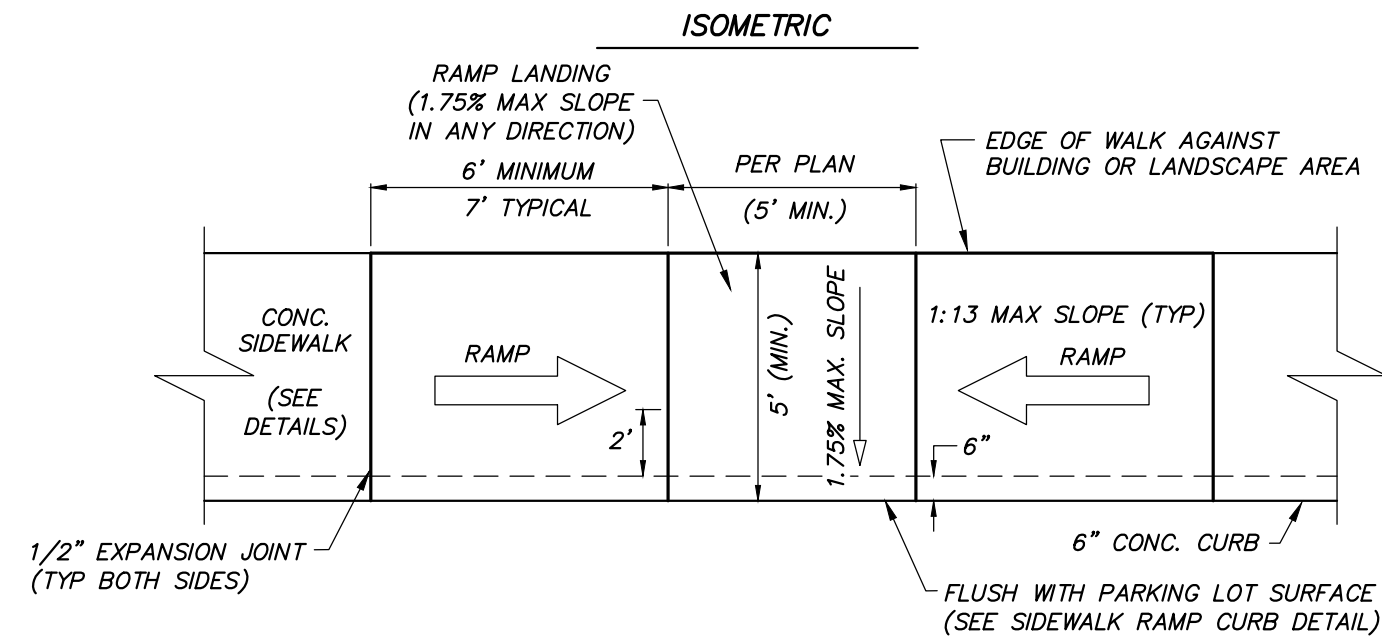
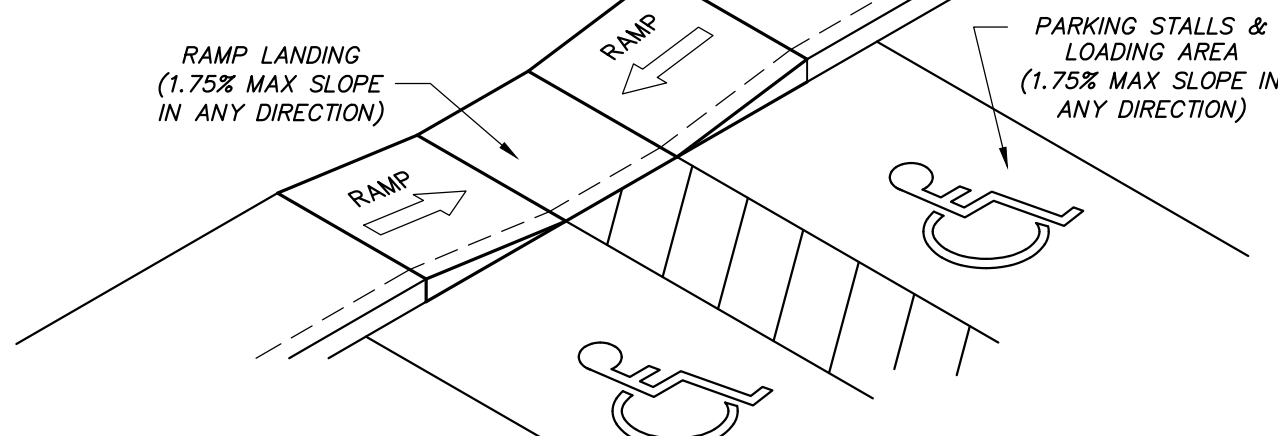
Drawing Title:
SITE DETAILS

| No. | Revisions: | Date: |
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| 1 | OWNER COMMENTS | 10/26/20 |
| 2 | OWNER COMMENTS | 12/17/20 |
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Submission Date: 6/25/2020
Plot Date: 12/15/2020
Drawing Number: C7.01

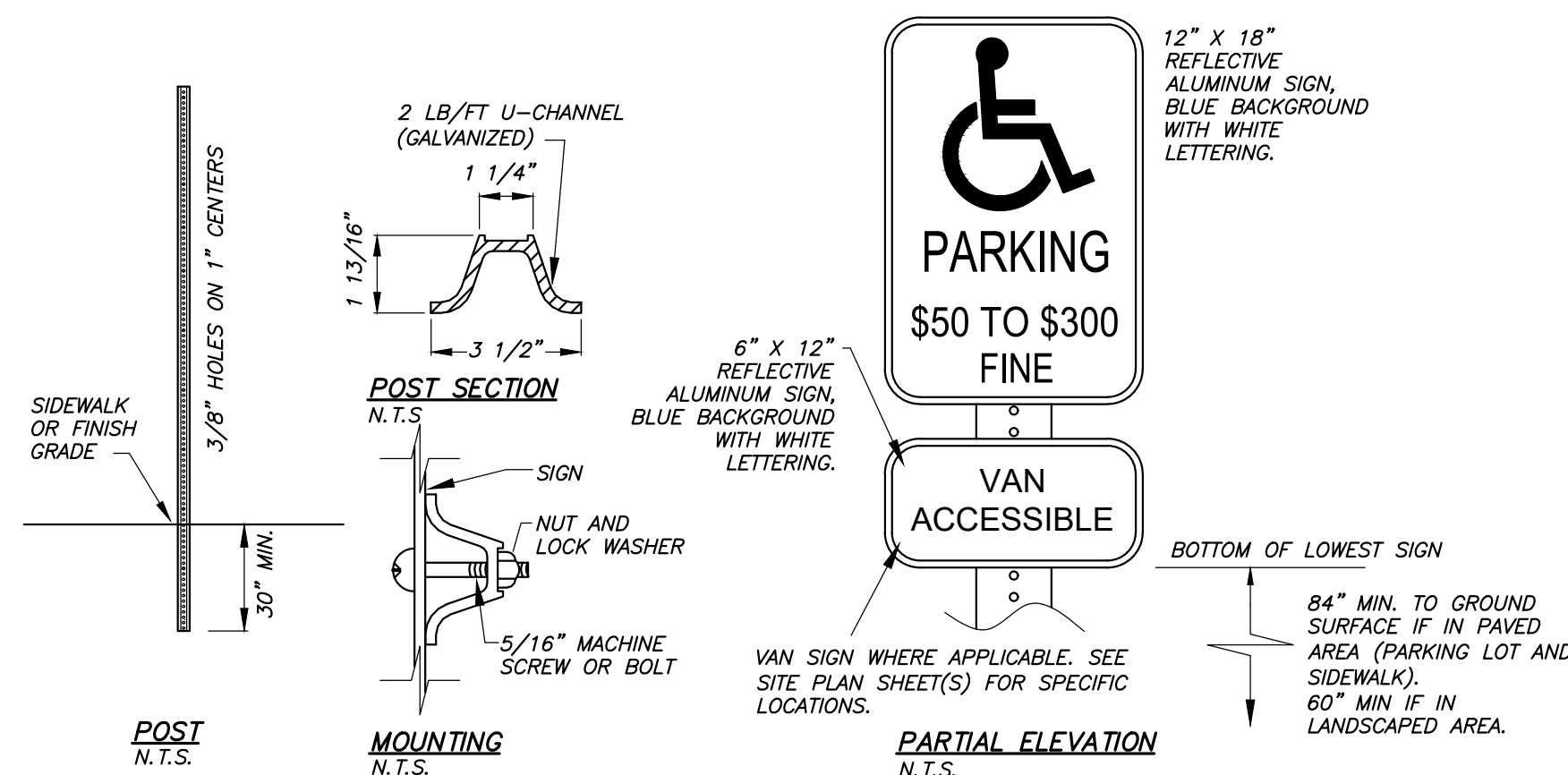
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ALIGN RAMP LANDING WITH ADA
PARKING AISLE (WHERE APPLICABLE).



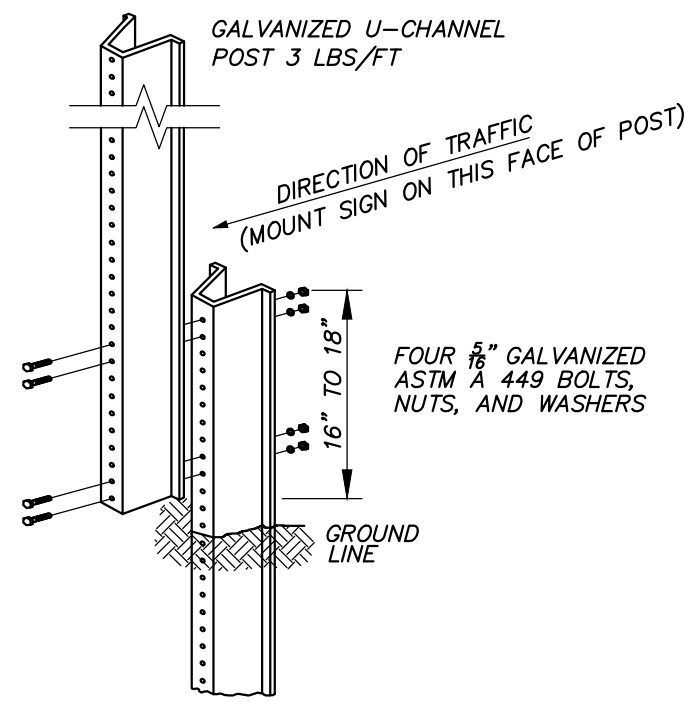
- NOTES:
1. RAMP SHALL BE 4" THICK PORTLAND CEMENT CONCRETE - SEE SPECS.
 2. EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
 3. MAXIMUM RAMP CROSS SLOPE IS 1.75%.
 4. MAXIMUM RAMP LONGITUDINAL SLOPE IS 1:13. USE A FLATTER RAMP SLOPE WHEN POSSIBLE.
 5. RAMP LANDING SLOPE SHALL NOT EXCEED 1.75% IN ALL DIRECTIONS.

PARALLEL CURB RAMP
NOT TO SCALE



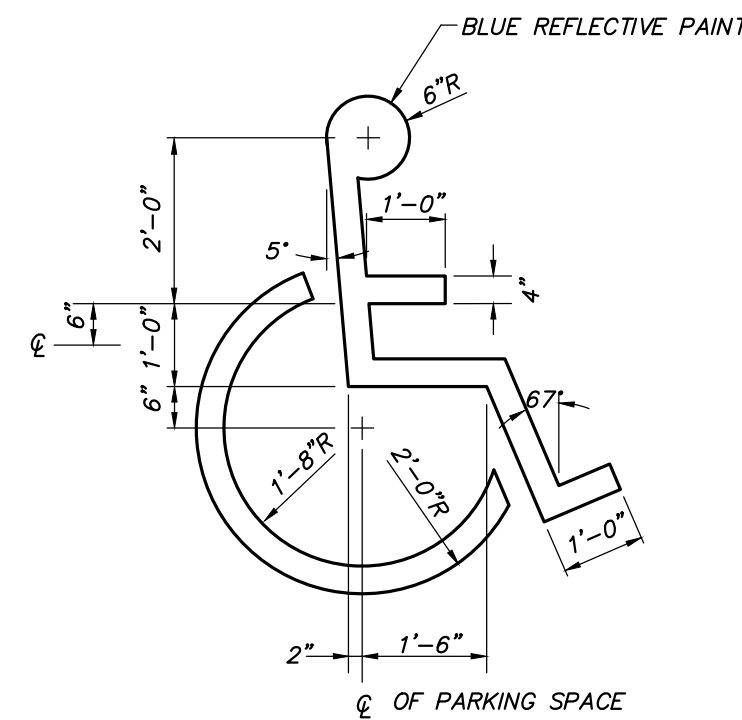
- NOTES:
1. SEE SITE PLAN SHEET(S) FOR SIGN LOCATIONS.
 2. ALL SIGNS SHALL BE 0.80 ENGINEER GRADE REFLECTIVE ALUMINUM.

ACCESSIBLE PARKING STALL SIGNAGE FOR MISSOURI
NOT TO SCALE

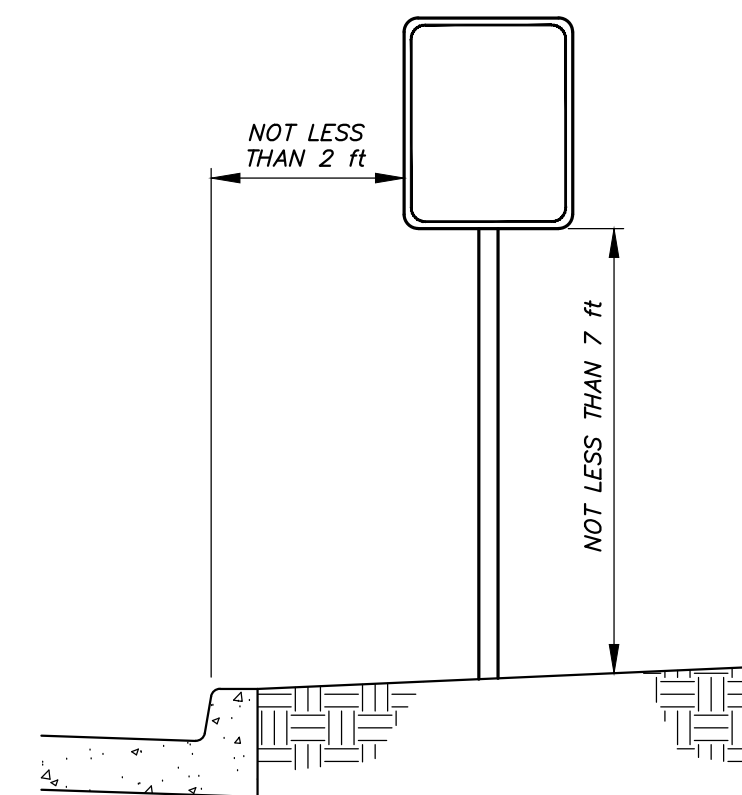


- NOTES:
1. STUB HEIGHT AND SPLICE LAP SHALL BE 16" TO 18".
 2. SPLICE SHALL NOT EXTEND BELOW THE GROUND.
 3. ONLY ONE SPLICE WILL BE ALLOWED PER POST.
 4. USE OF SPLICE IS OPTIONAL.
 5. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.
 6. SIGNS SHALL BE 7" MIN. FROM FINISH GRADE TO BOTTOM OF LOWEST MOUNTED SIGN.

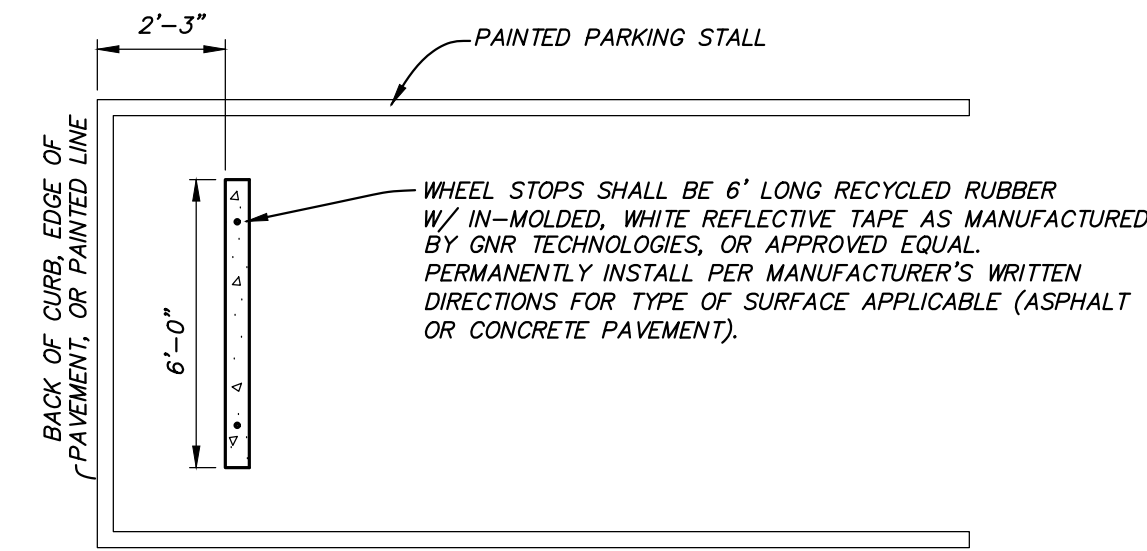
SIGN POST DETAIL
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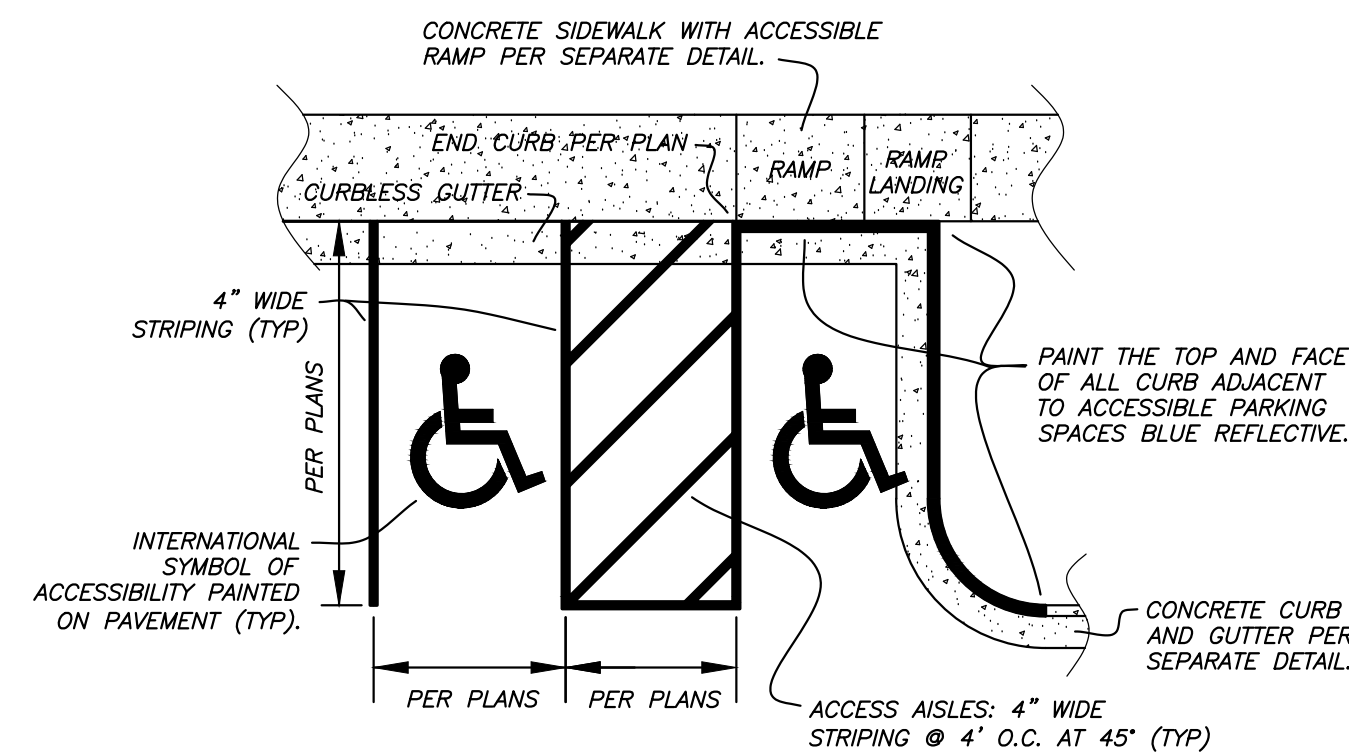
ACCESSIBLE SYMBOL
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URBAN ROADSIDE SIGN LOCATION
NOT TO SCALE

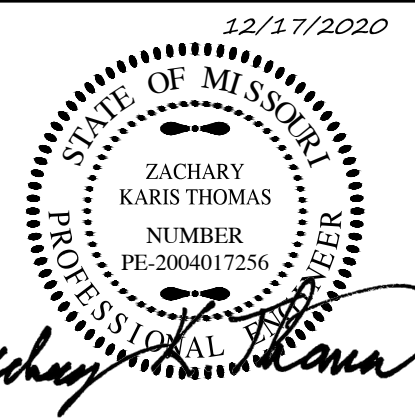


PARKING BUMPER
NOT TO SCALE



- NOTES:
1. ALL ACCESSIBLE STRIPING SHALL BE BLUE REFLECTIVE.
 2. ALL PAVEMENT WITHIN ACCESSIBLE PARKING AREAS SHALL BE AT 2% OR LESS SLOPE IN ALL DIRECTIONS.

ACCESSIBLE PARKING STALL STRIPING FOR MISSOURI
NOT TO SCALE

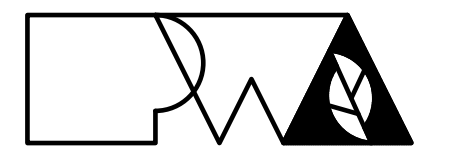


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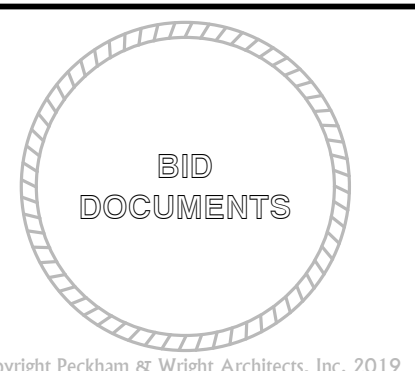
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| ZKT | | | |
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| SITE DETAILS | | | |
| No. | Revisions: | Date: | |
| ① | OWNER COMMENTS | 10/26/20 | |
| ② | OWNER COMMENTS | 12/17/20 | |
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| Submission Date: | | Drawing Number: | |
| 6/25/2020 | | C7.02 | |
| Plot Date: | | | |
| 12/15/2020 | | | |

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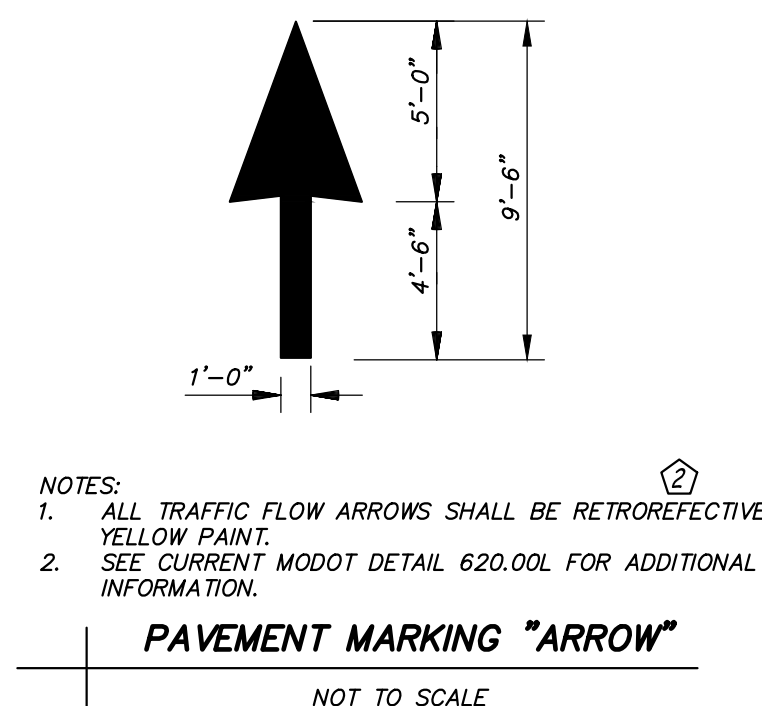
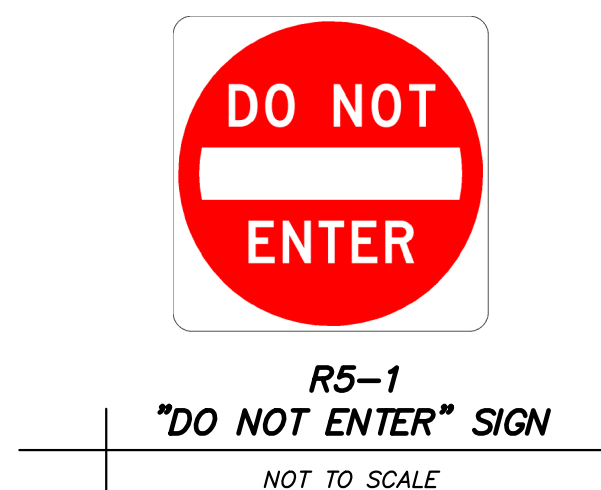
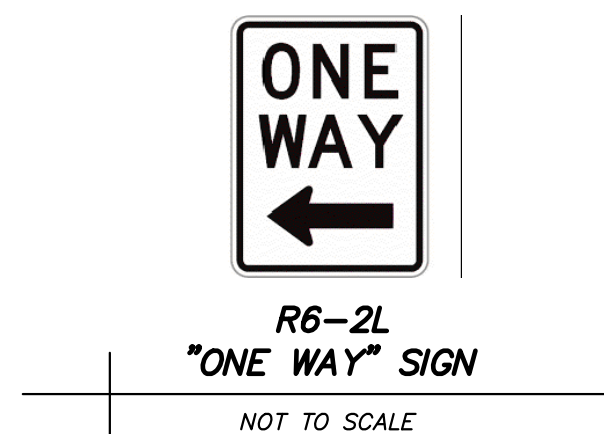
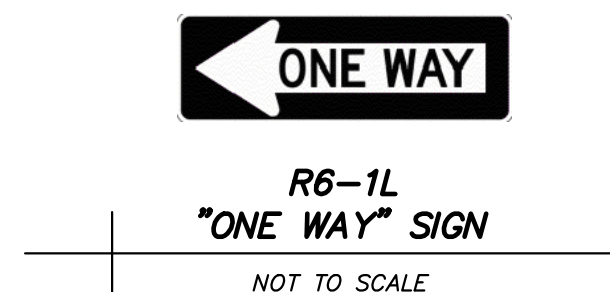
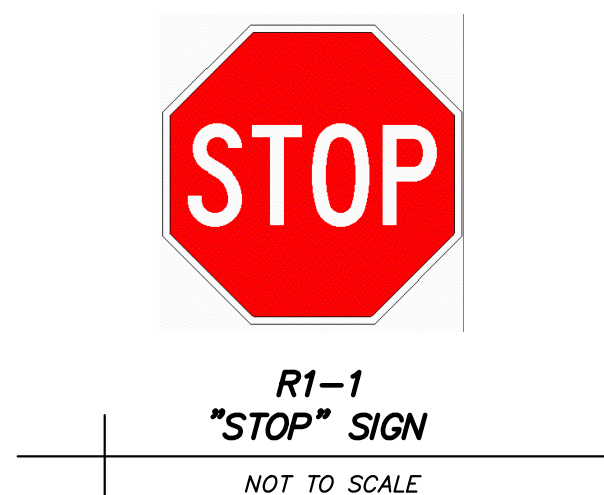
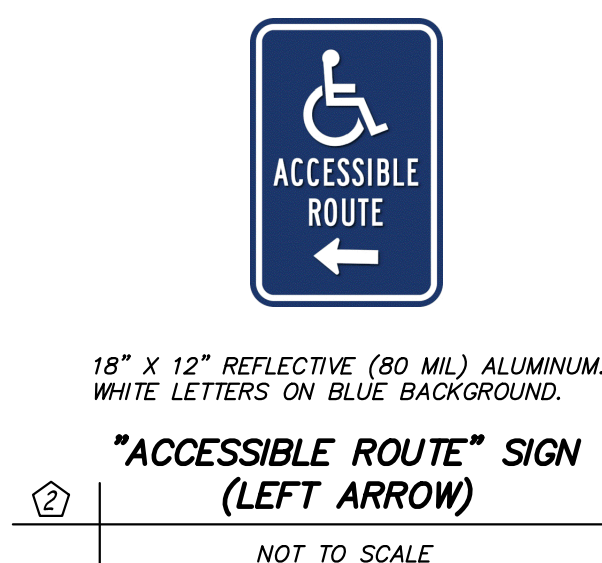
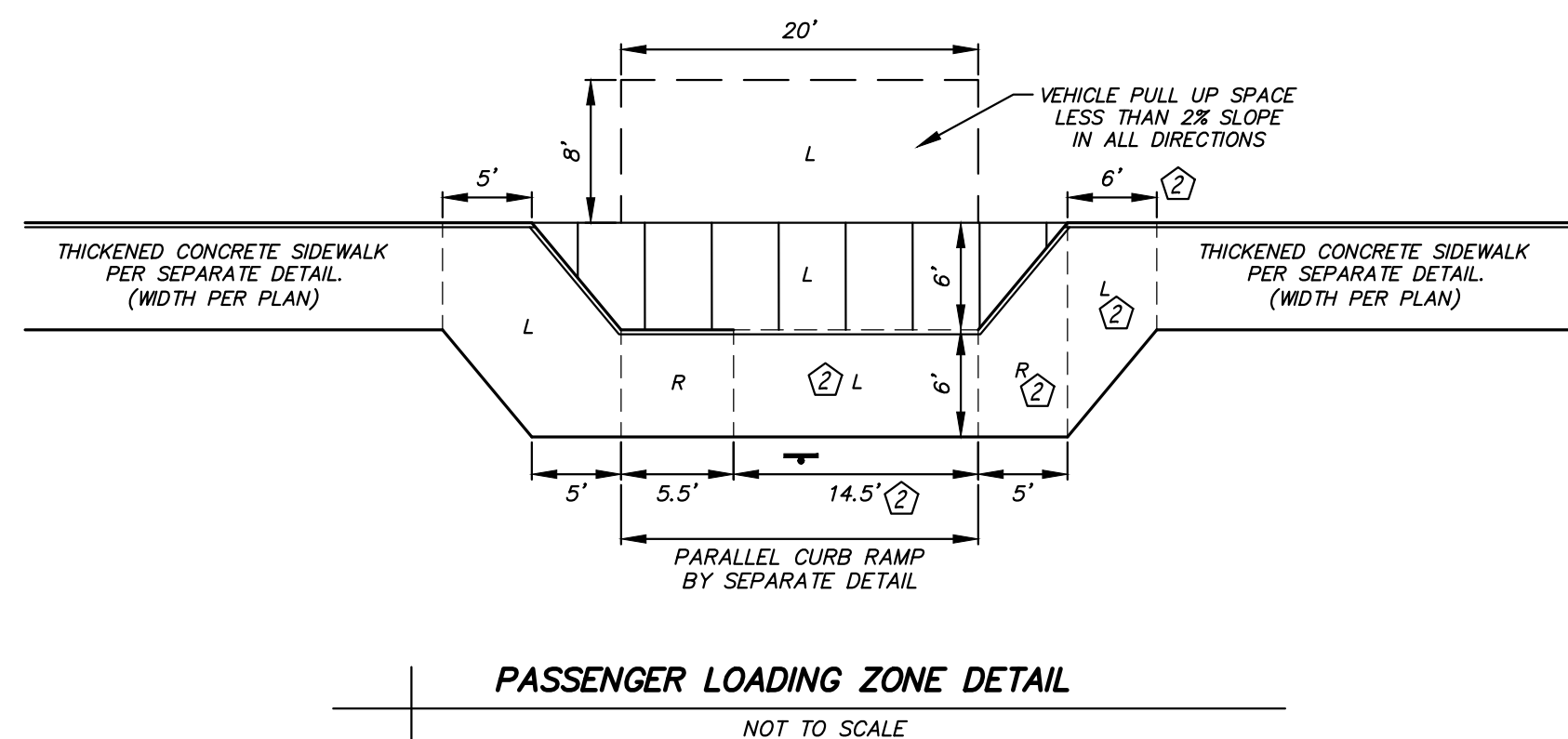
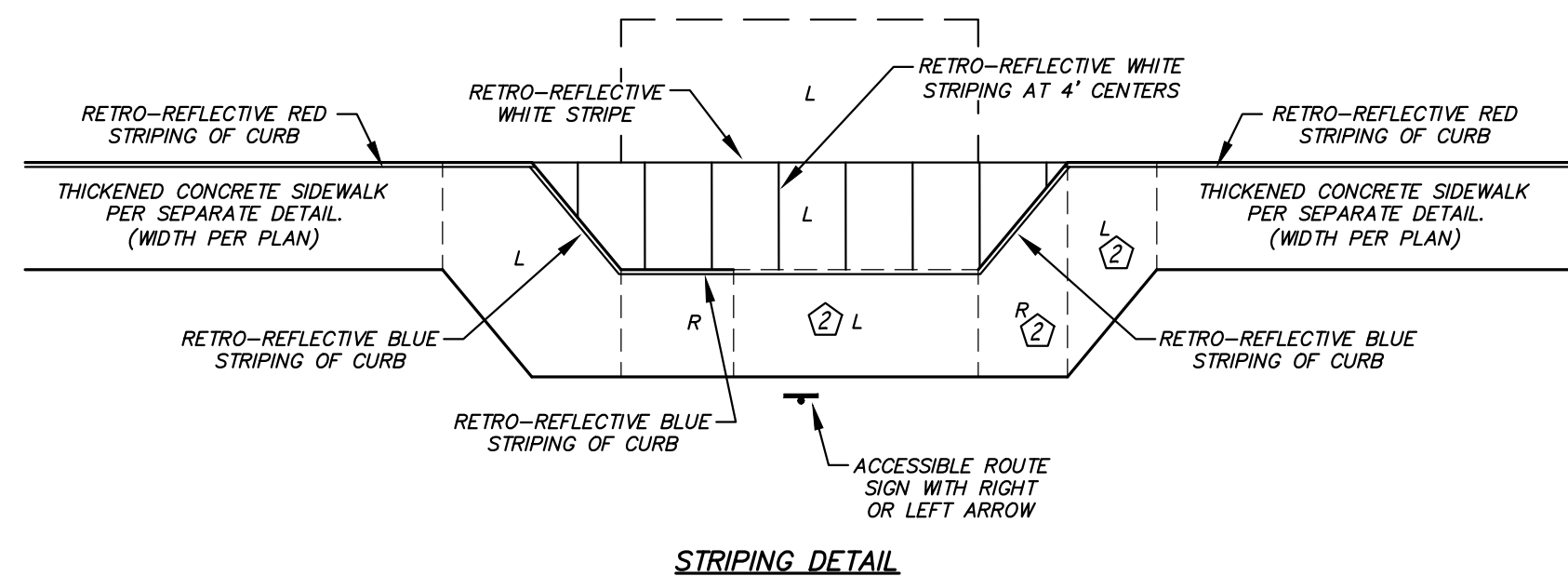
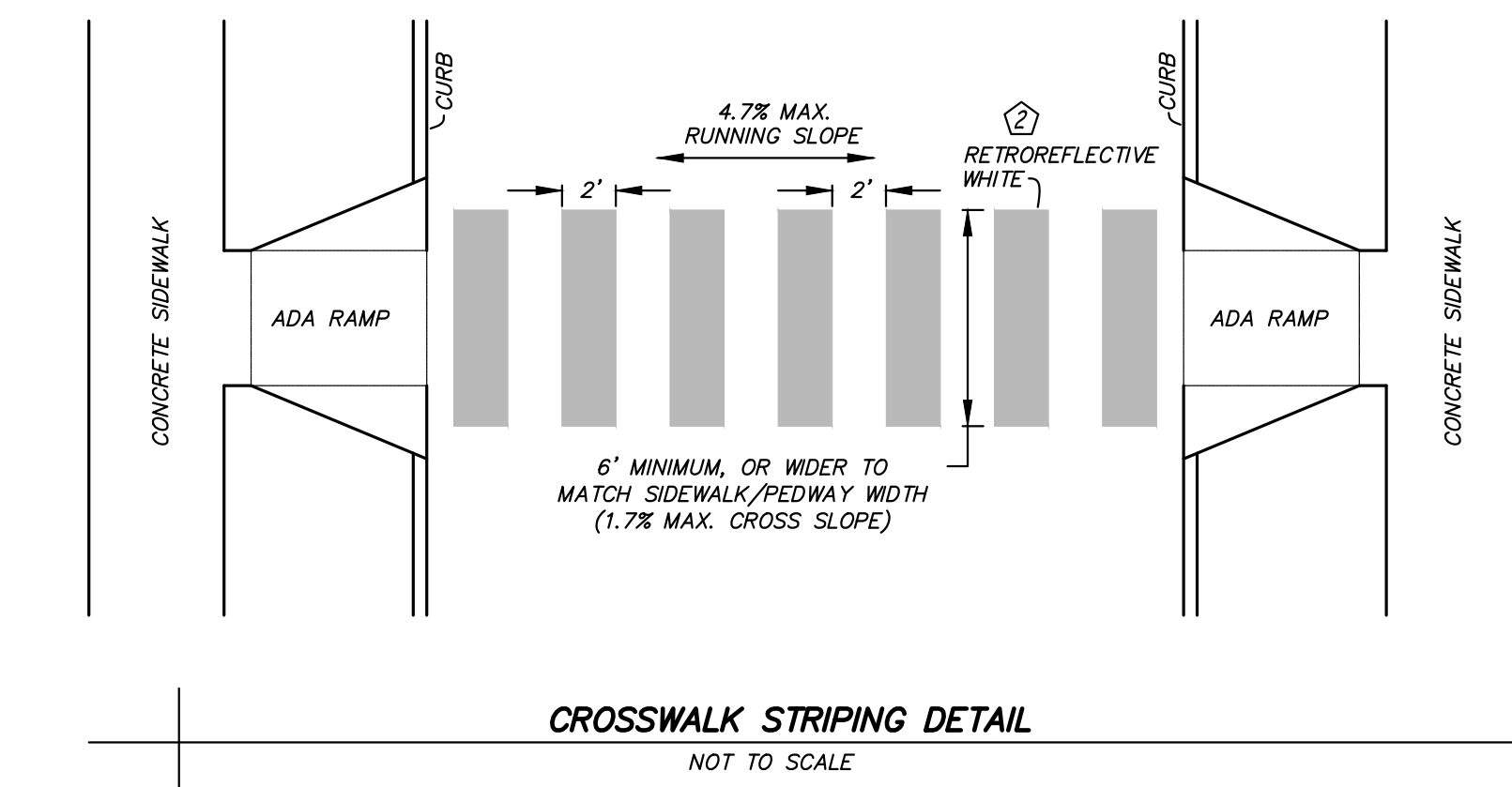
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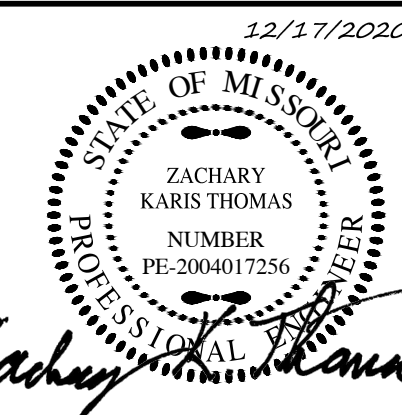
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NOTES:
1. ALL TRAFFIC FLOW ARROWS SHALL BE RETROREFLECTIVE YELLOW PAINT.
2. SEE CURRENT M00DT DETAIL 620.00L FOR ADDITIONAL INFORMATION.

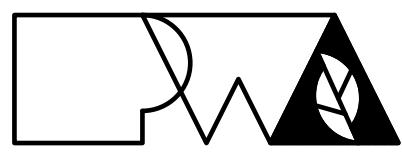


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| Checked: | CAD File Name (Number): | |
| ZKT | | |
| Drawing Title: | | |
| SITE DETAILS | | |
| | | |
| No. | Revisions: | Date: |
| ① | OWNER COMMENTS | 10/26/20 |
| ② | OWNER COMMENTS | 12/17/20 |
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| Submission Date: | Drawing Number: |
| 6/25/2020 | C7.03 |
| Plot Date: | |
| 12/15/2020 | |

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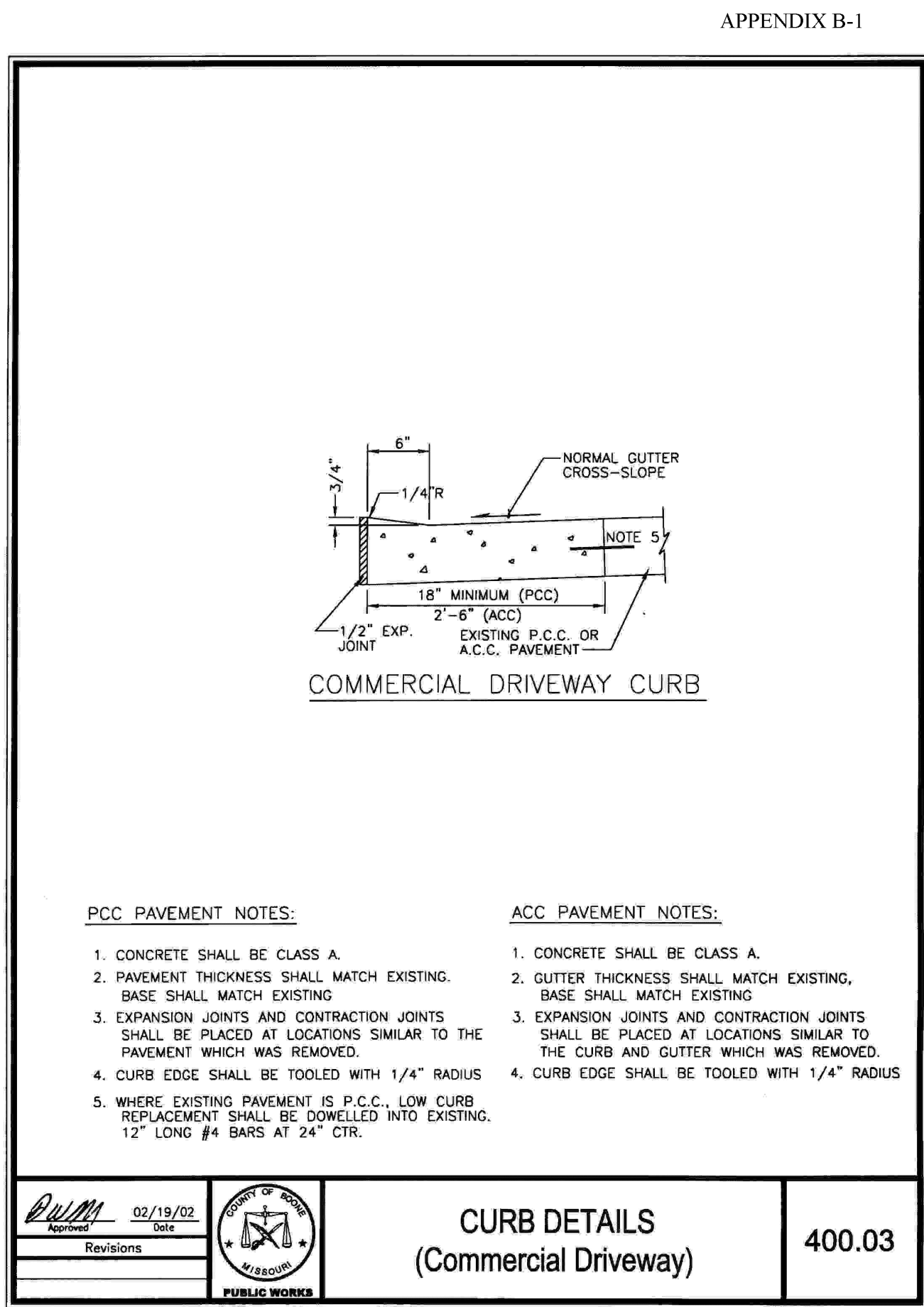
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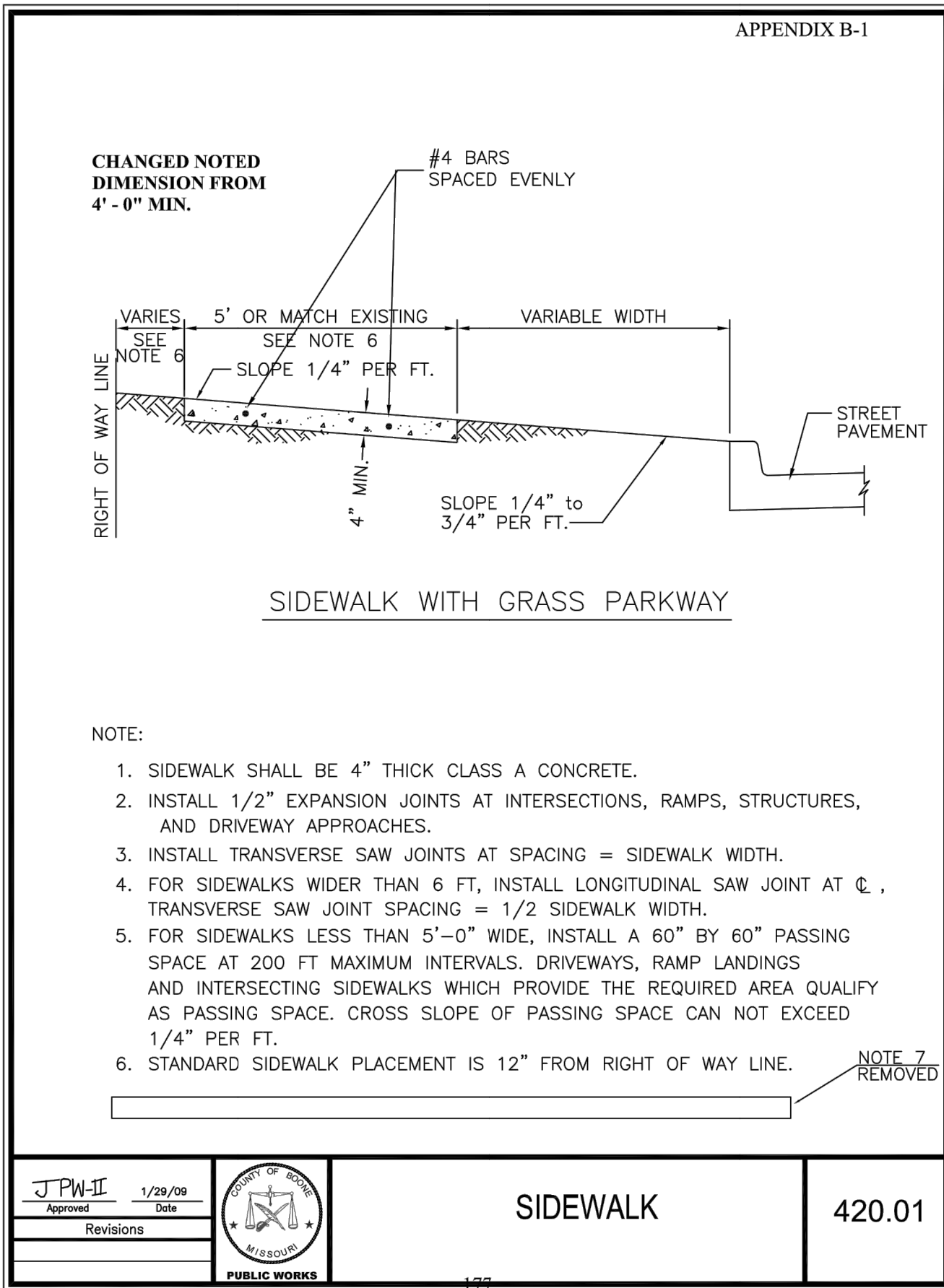
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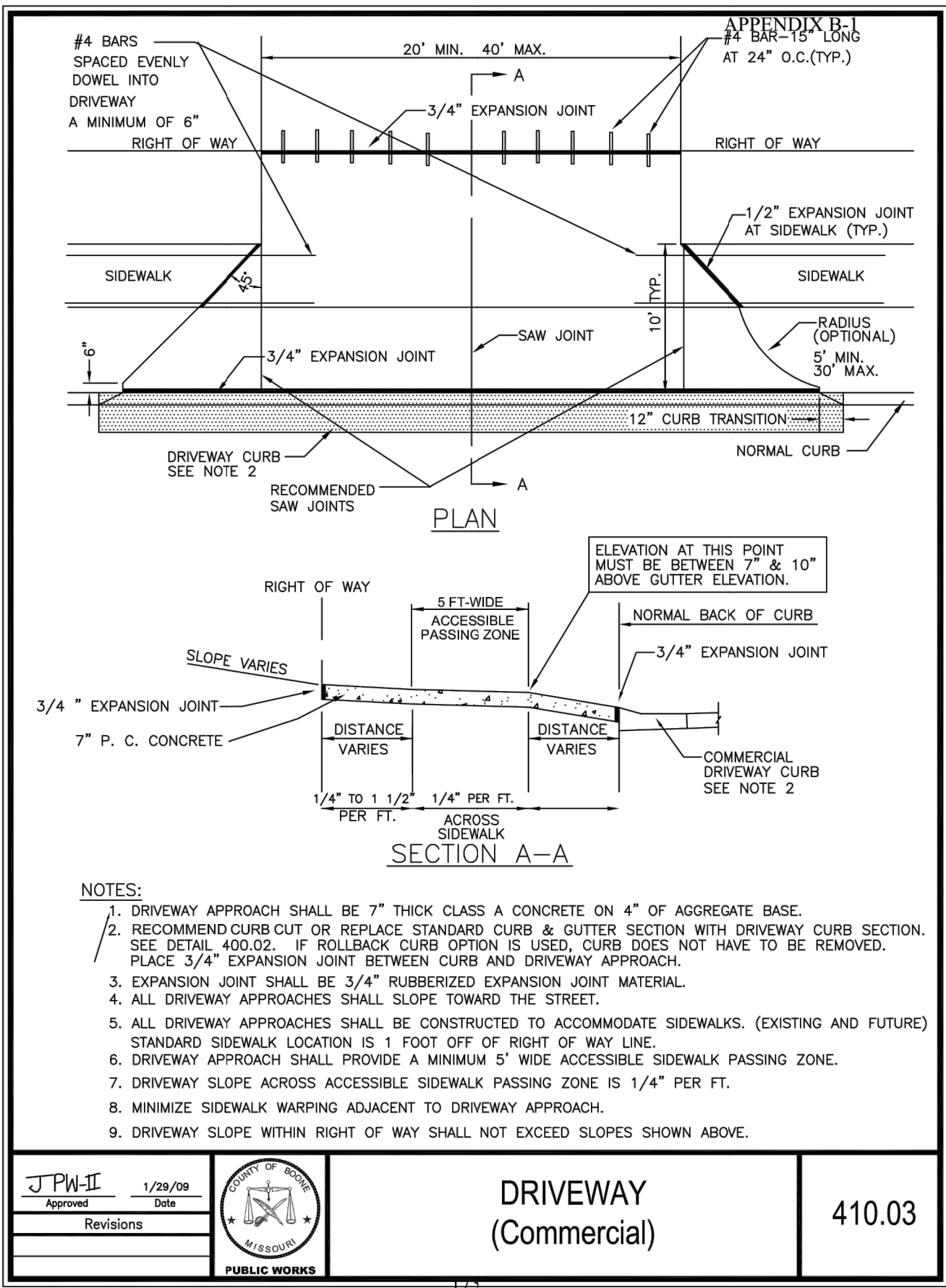
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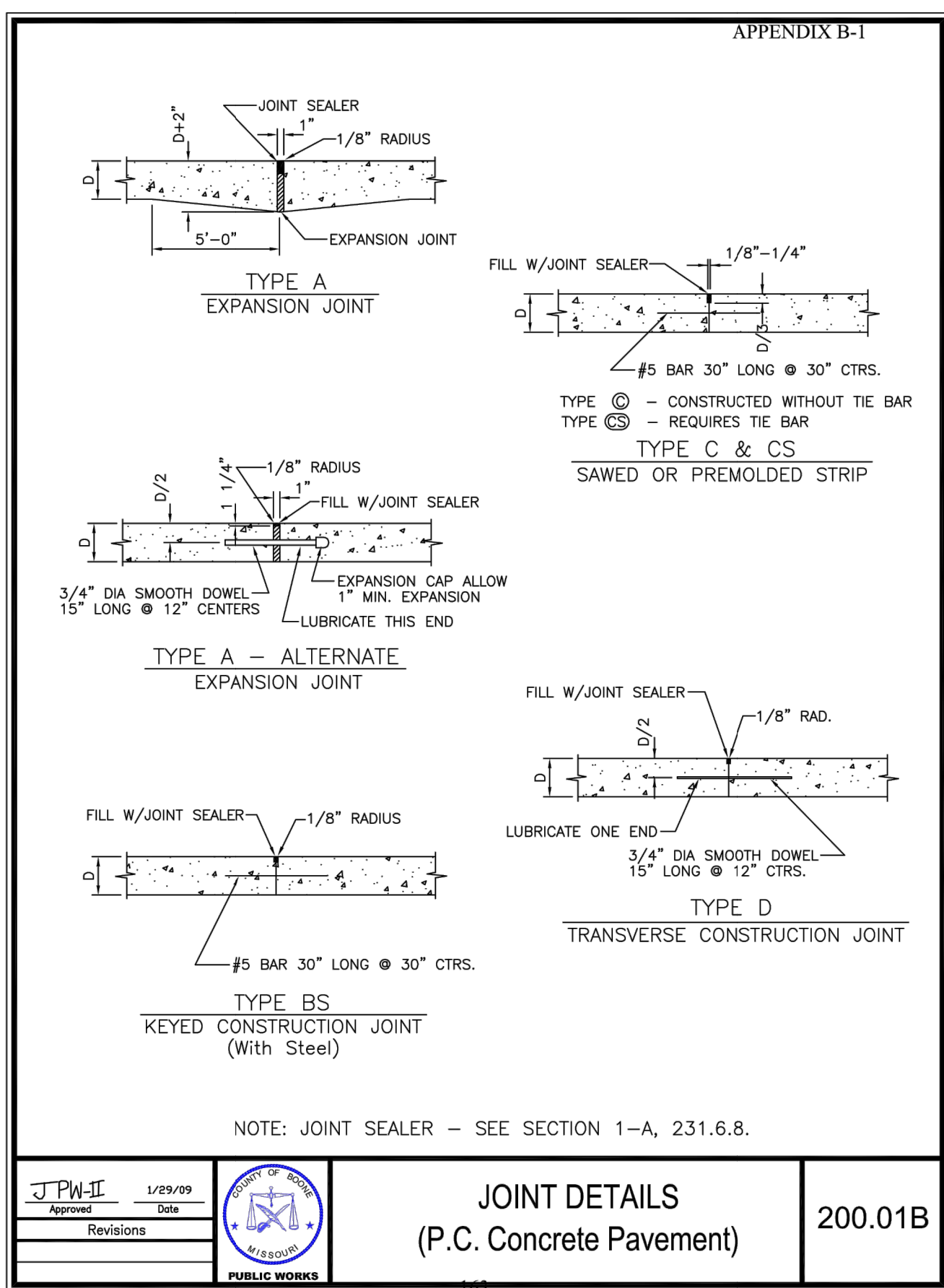
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169



173



174

12/17/2020

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ZACHARY K. THOMAS
PROFESSIONAL ENGINEER
NUMBER PE-2004017256

ZACHARY K. THOMAS
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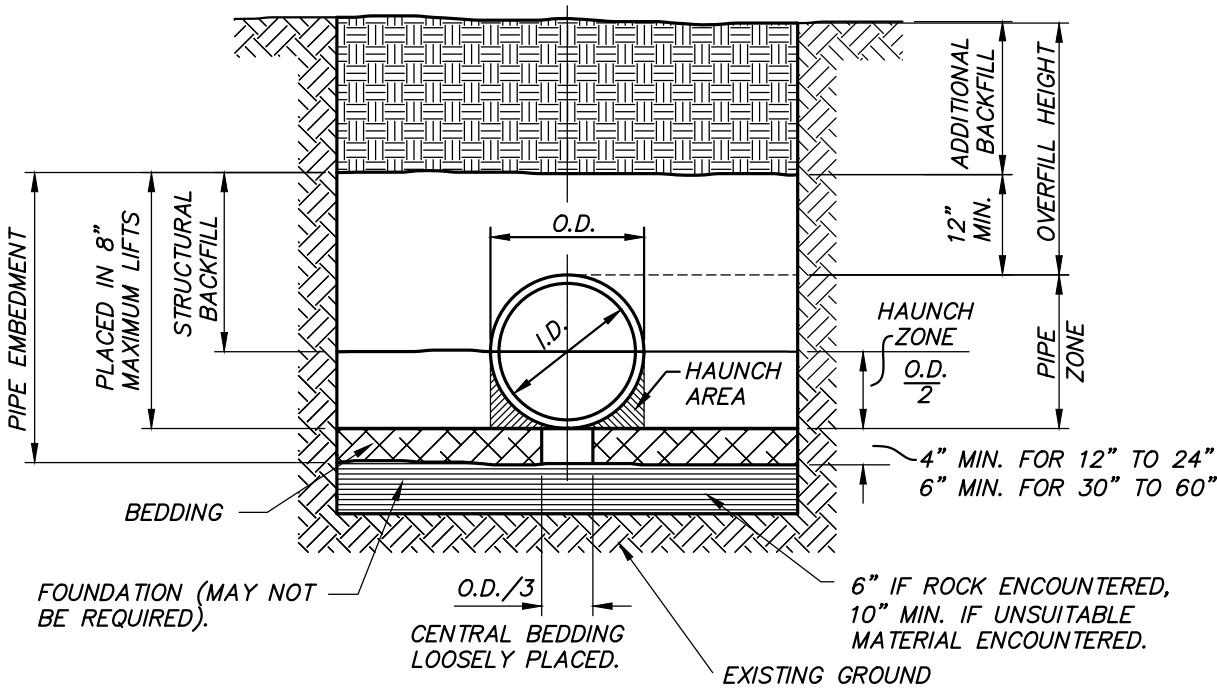
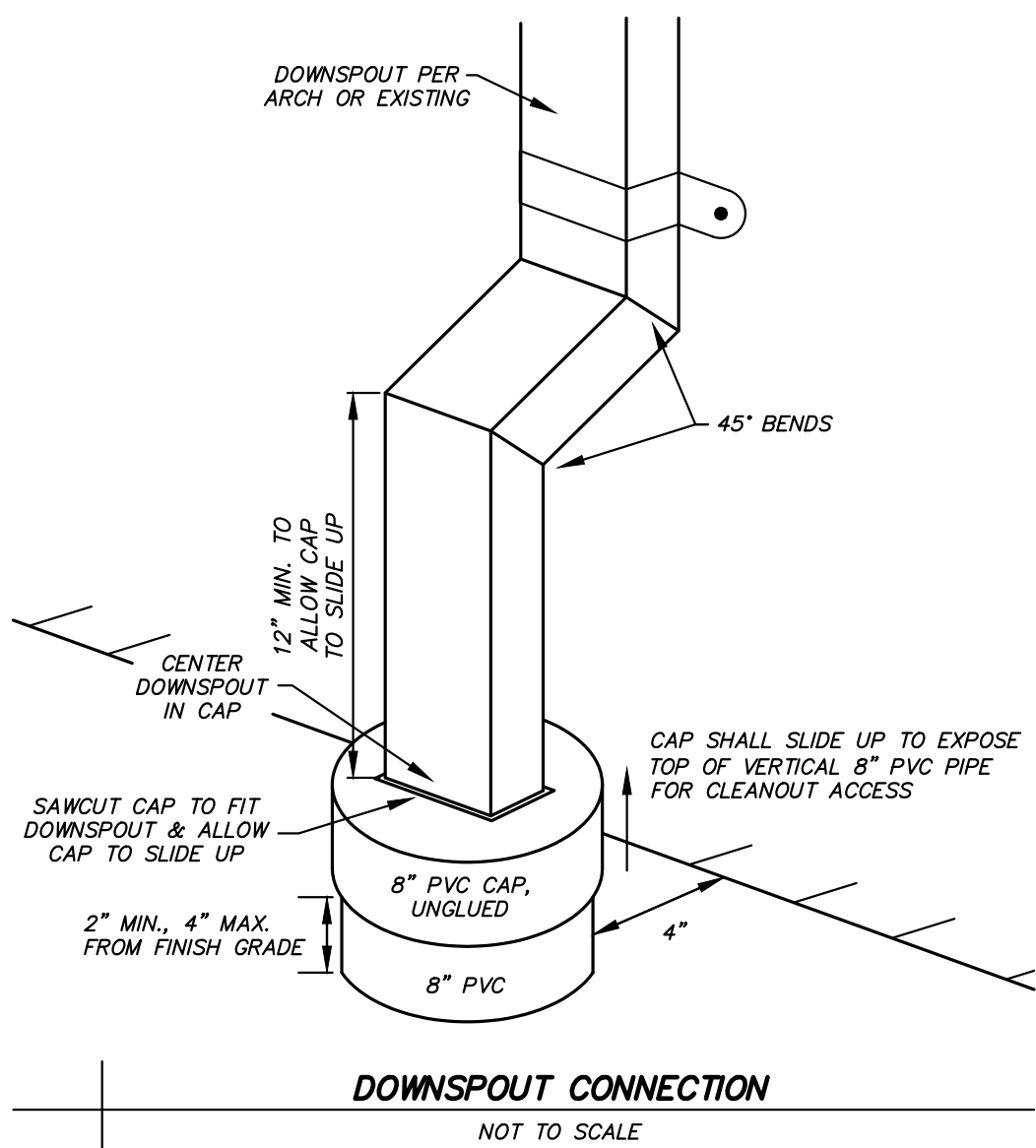
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Checked: ZKT
Drawing Title: RIGHT-OF-WAY DETAILS

Project Number: 201621.51
CAD File Name (Number):
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Submission Date: 6/25/2020
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Drawing Number: C8.01

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TYPICAL TRENCH DETAIL

| TABLE I CORRUGATED HDPE AND POLYVINYL CHLORIDE CIRCULAR PIPE | | | | | |
|---|--------------------------|--------------------------------|--|---------|--------------------|
| SPECIFIED DIA OF PIPE (IN.) | MIN OVERFILL HEIGHT (FT) | HDPE MAX OVERFILL HEIGHT* (FT) | POLYVINYL CHLORIDE MAX OVERFILL HEIGHT* (FT) | | TRENCH WIDTH (IN.) |
| | | | SDR 35# | SDR 26# | |
| 12 | 1 | 26 | 15 | 30 | 34 |
| 15 | 1 | 28 | 15 | 30 | 39 |
| 18 | 1 | 24 | 15 | 30 | 44 |
| 24 | 1 | 20 | 15 | 30 | 55 |
| 30 | 1 | 17 | N/A | N/A | 67 |
| 36 | 1 | 19 | N/A | N/A | 76 |
| 42 | 2 | 19 | N/A | N/A | 84 |
| 48 | 2 | 17 | N/A | N/A | 95 |
| 54 | 2 | 9 | N/A | N/A | 104 |
| 60 | 2 | 9 | N/A | N/A | 113 |

* MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE
PER ASTM D-3034 FOR PIPE UP TO 15" AND ASTM F679 OVER 15"

EMBEDMENT OF PLASTIC STORM SEWER PIPE

NOT TO SCALE

| TABLE III PARALLEL PIPE INSTALLATION | | |
|---|---------|---------|
| PIPE SIZE | S (IN.) | X (IN.) |
| 12 | 12 | 9 |
| 15 | 12 | 9 |
| 18 | 12 | 9 |
| 24 | 12 | 10 |
| 30 | 15 | 16 |
| 36 | 18 | 18 |
| 42 | 21 | 18 |
| 48 | 24 | 18 |

S = MINIMUM PIPE SEPARATION (IN) BETWEEN OUTSIDE WALLS OF PIPES.
X = MINIMUM SEPARATION BETWEEN TRENCH WALL AND OUTSIDE WALL OF PIPE.

CONSTRUCTION SEQUENCE

1. PLACE BEDDING MATERIAL TO GRADE.
2. COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
3. INSTALL PIPE TO GRADE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
5. COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

BACKFILL NOTES

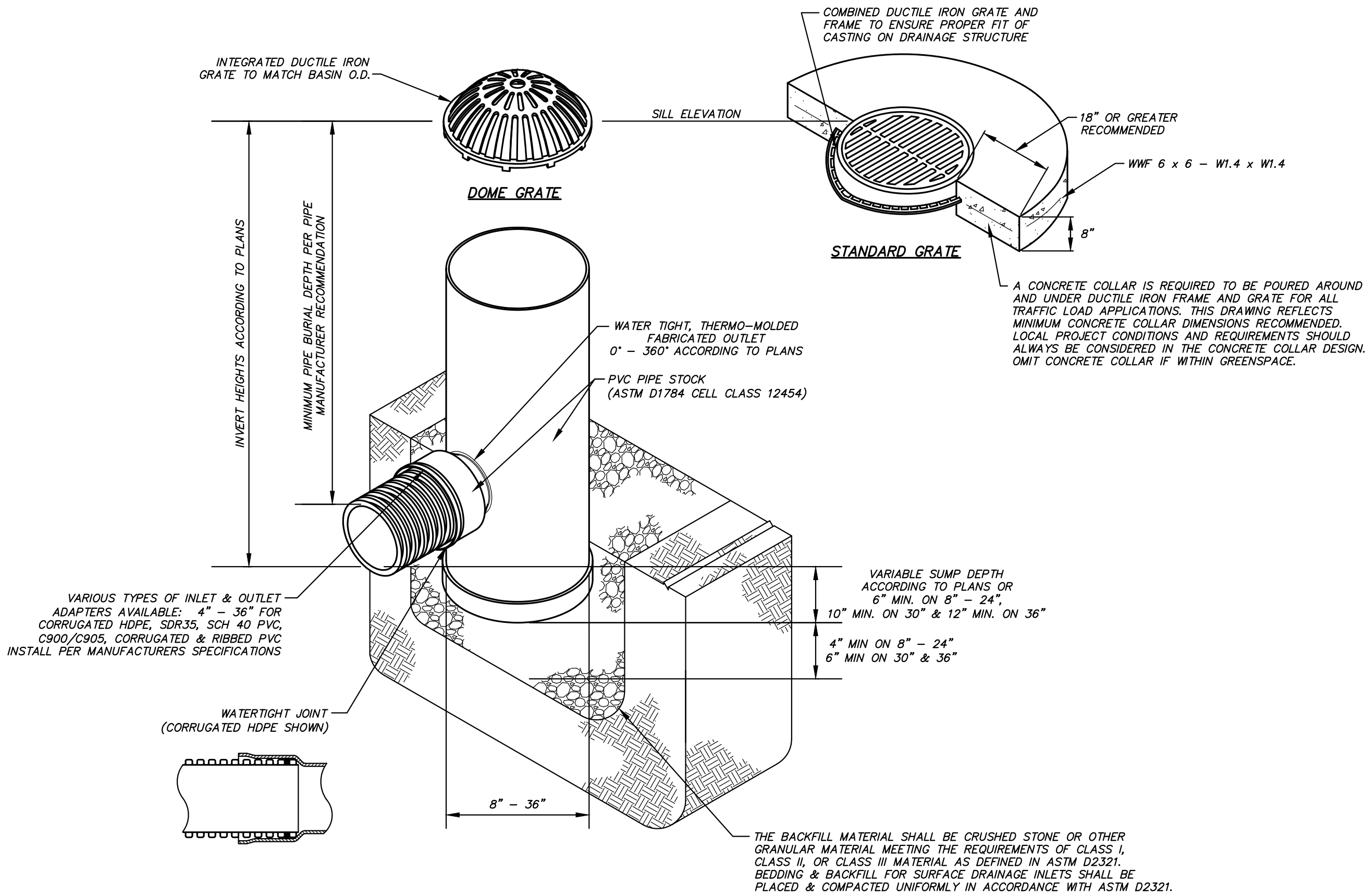
1. BEDDING, HAUNCH, AND STRUCTURAL BACKFILL SHALL BE IN CONFORMANCE WITH AASHTO M145 A1 OR A-3 COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.
2. ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASTM D2321 LATEST ADDITION.
3. ADDITIONAL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.

LEGEND

I.D. = NORMAL INSIDE DIAMETER OF PIPE.
O.D. = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET).
MIN. = MINIMUM
MAX = MAXIMUM
= UNDISTURBED SOIL

| TABLE II MINIMUM COVER FOR CONSTRUCTION LOADS | | | | |
|--|---|-------|--------|---------|
| PIPE DIA. (IN.) | MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS) | | | |
| | 18-50 | 50-75 | 75-110 | 110-150 |
| 12-36 | 2.0 | 2.5 | 3.0 | 3.0 |
| 42-48 | 3.0 | 3.0 | 3.5 | 4.0 |

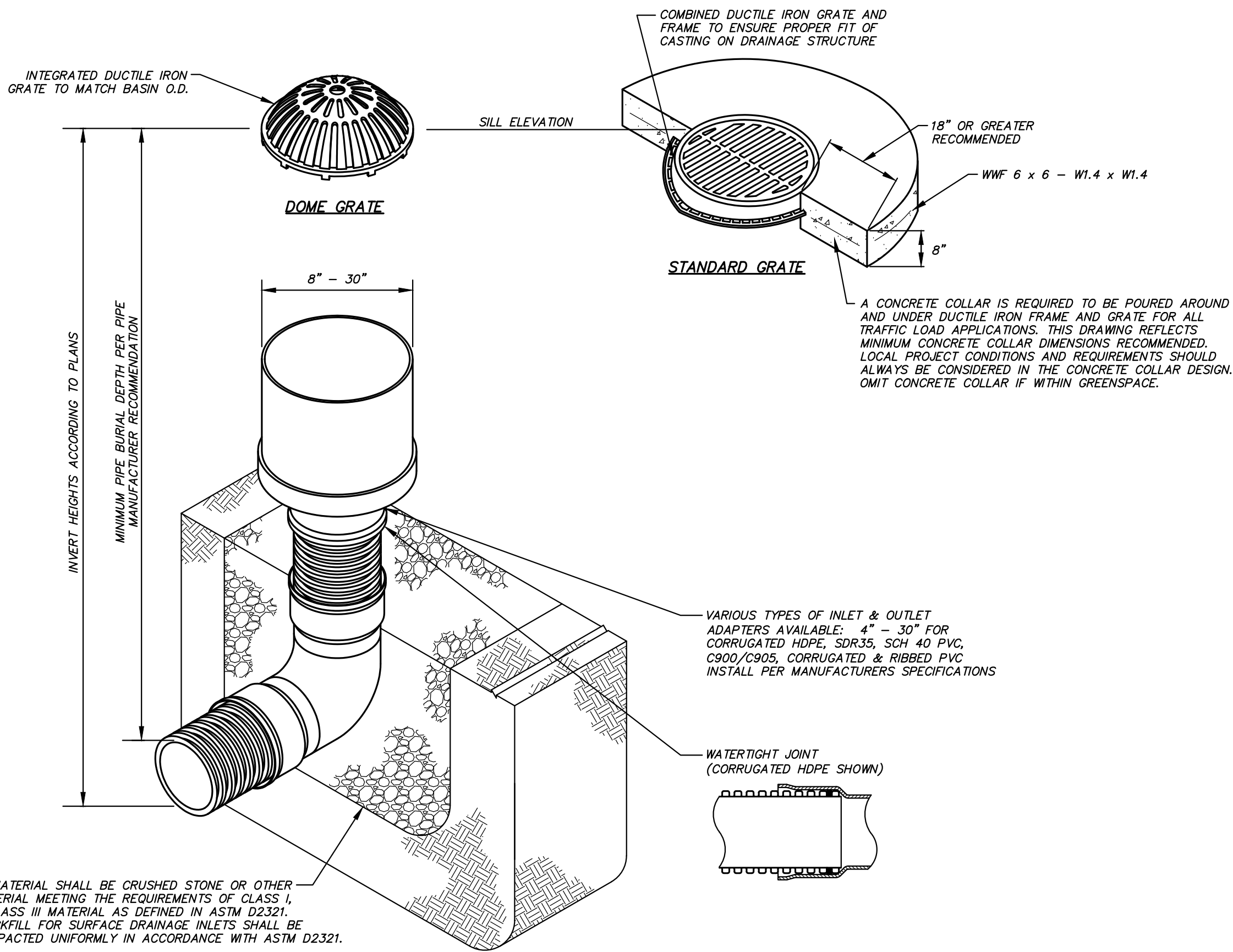
THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.



- NOTES:
1. 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, OR 60-55-06.
 2. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. INSTALL RISERS PER MANUFACTURER'S SPECIFICATION.
 3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE & PVC SEWER (4" - 36").
 4. 8" - 30" DOME GRATES HAVE NO LOAD RATING.

DRAIN BASIN & GRATE

NOT TO SCALE

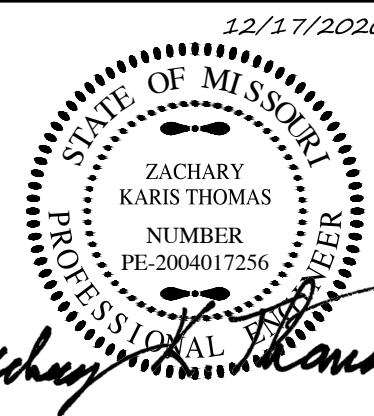


THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

- NOTES:
1. 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 2. INLINE DRAINS TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. INSTALL RISERS PER MANUFACTURER'S SPECIFICATION.
 3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE & PVC SEWER (4" - 24").
 4. 8" - 30" DOME GRATES HAVE NO LOAD RATING.

INLINE DRAIN & GRATE

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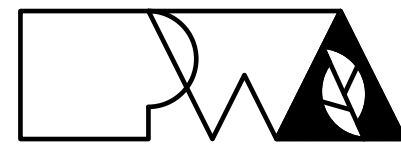


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Drawing Title: STORM SEWER DETAILS

Project Number: 201621.51
CAD File Name (Number):

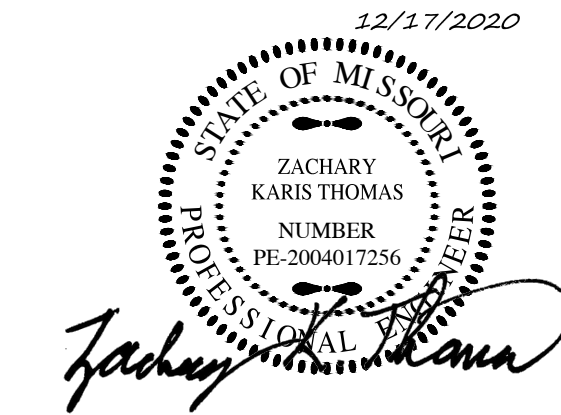
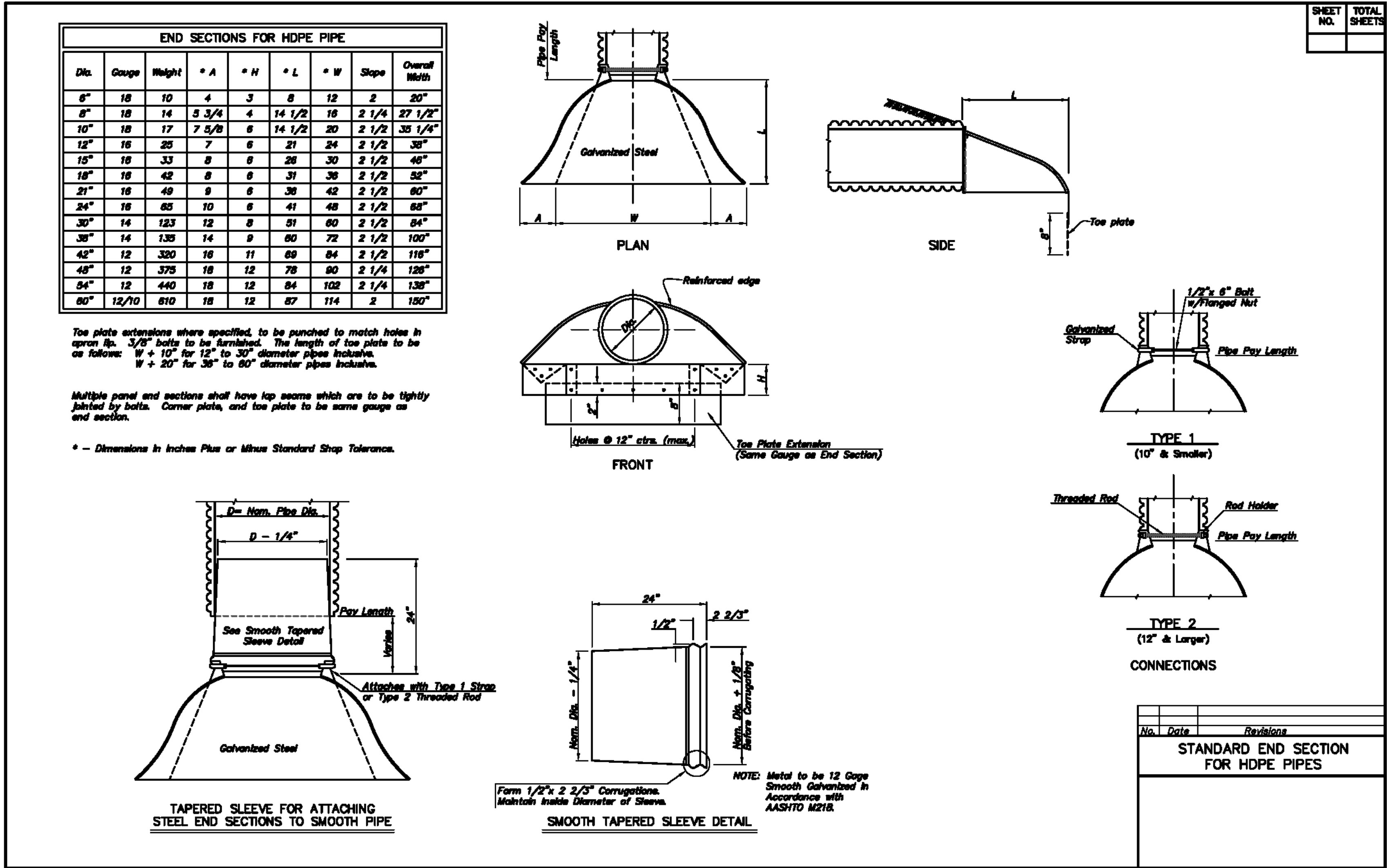
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OWNER COMMENTS

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Plot Date: 12/15/2020

Drawing Number: C9.01

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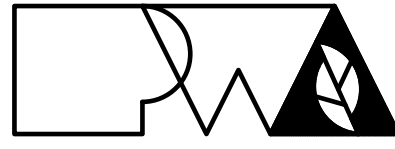
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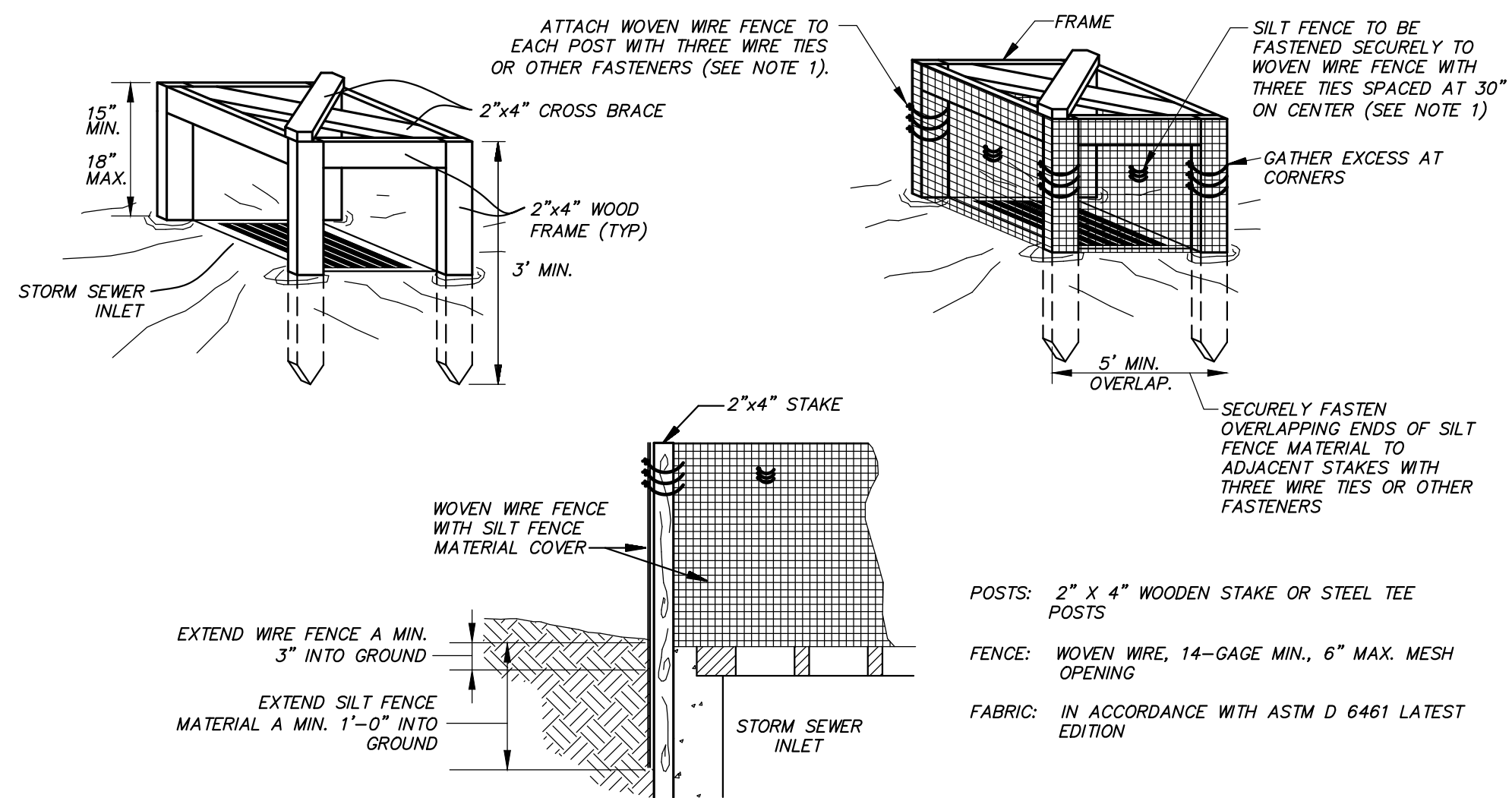


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Checked: ZKT
CAD File Name (Number):
Drawing Title: STORM SEWER DETAILS

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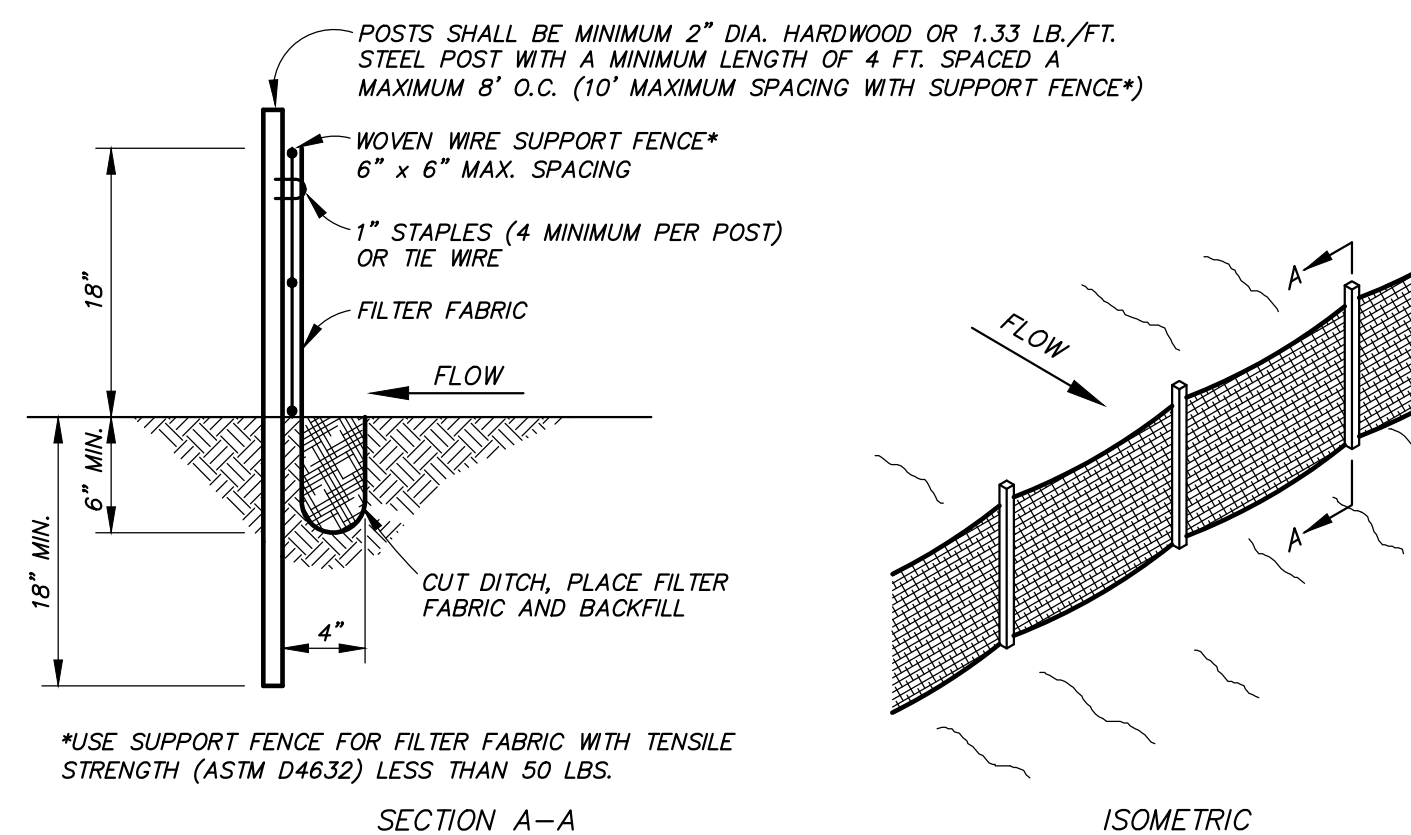
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Plot Date: 12/15/2020
Drawing Number: C9.02



1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANING MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-THIRD THE HEIGHT OF THE SILT FENCE MATERIAL.
4. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT.

SILT FENCE INLET PROTECTION

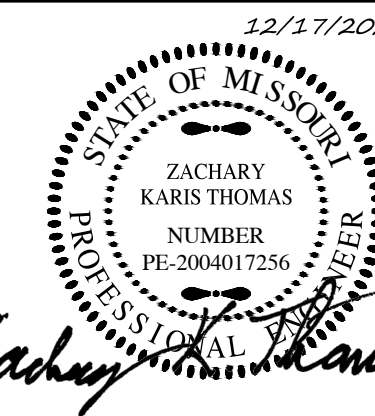
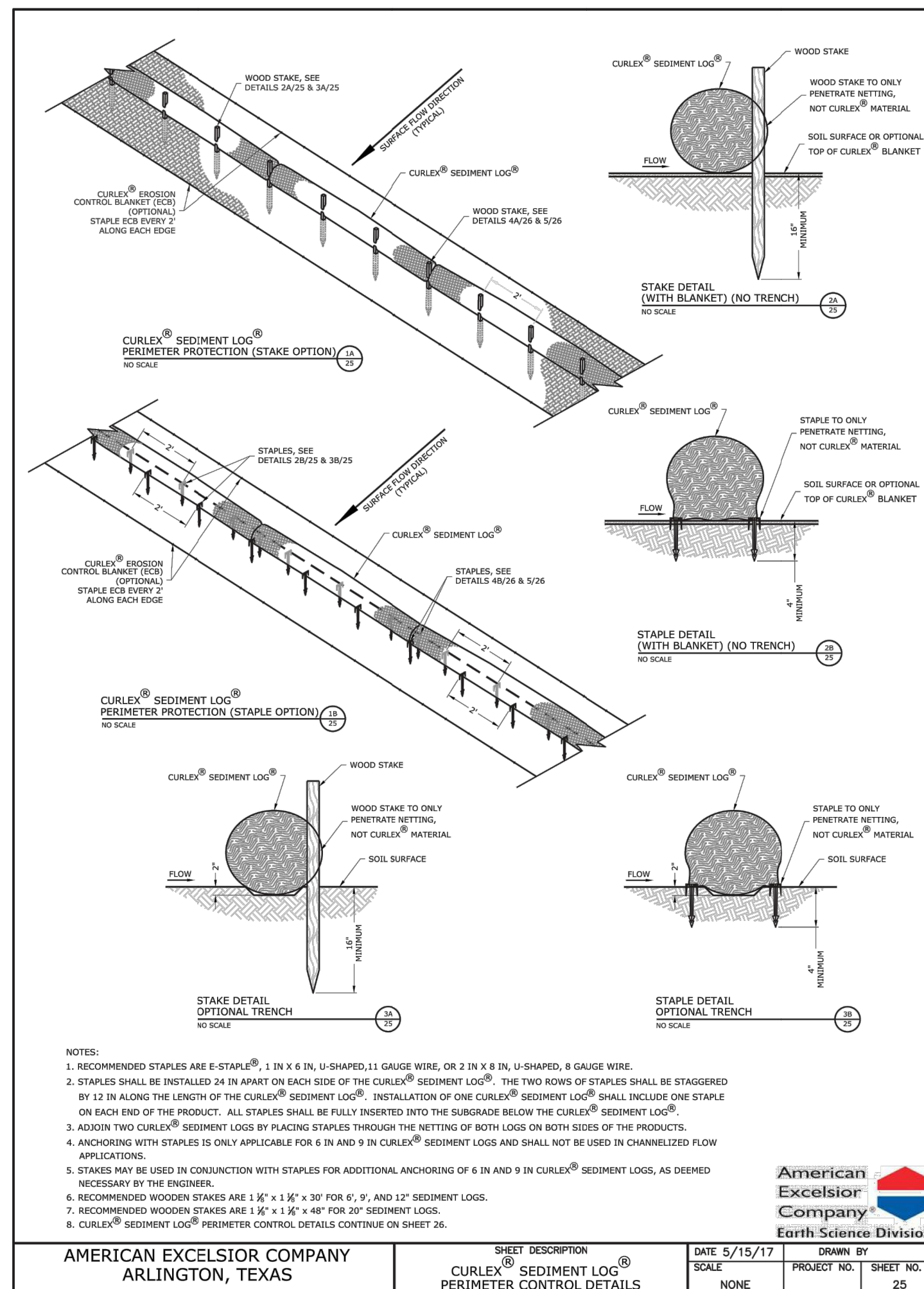
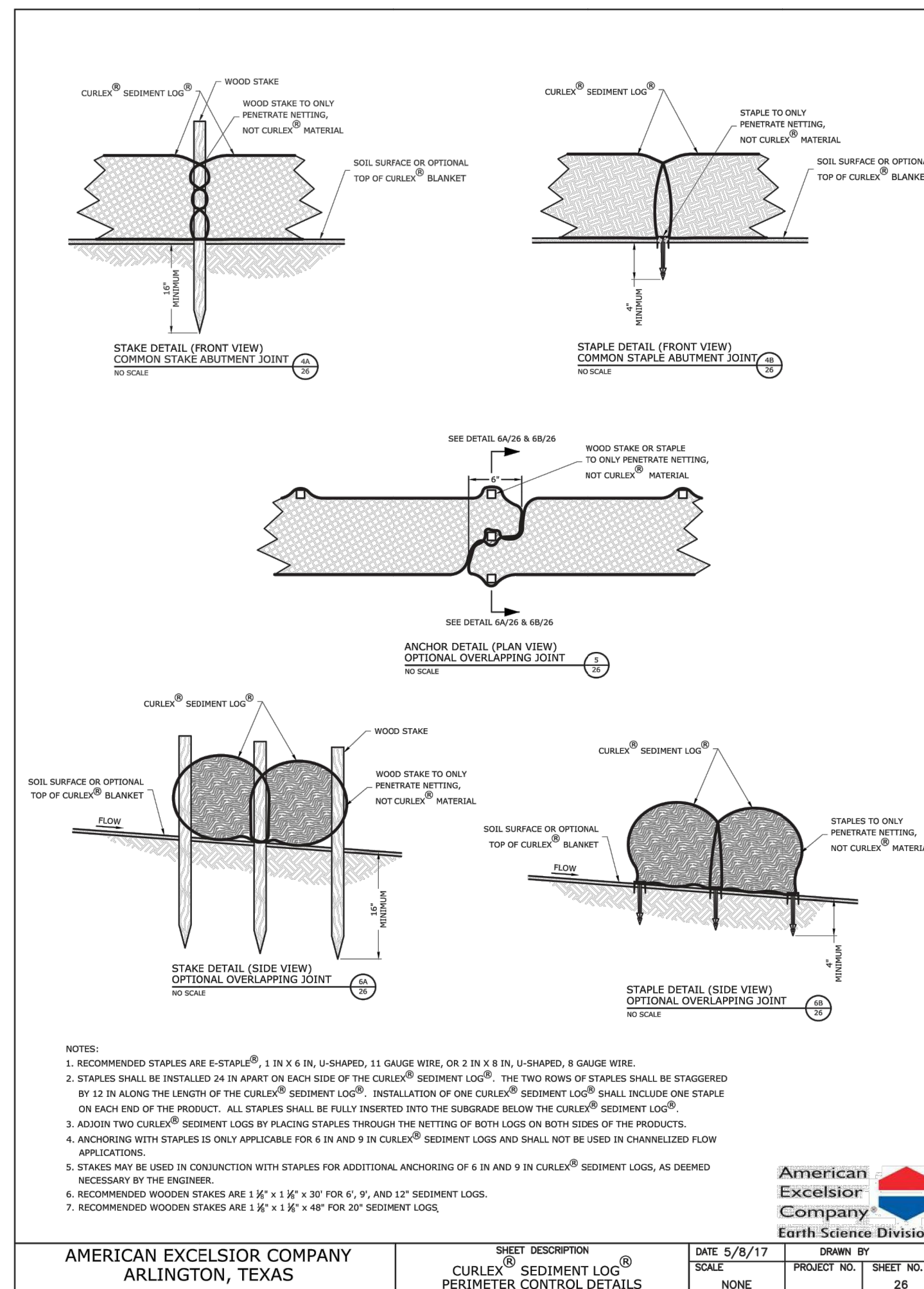
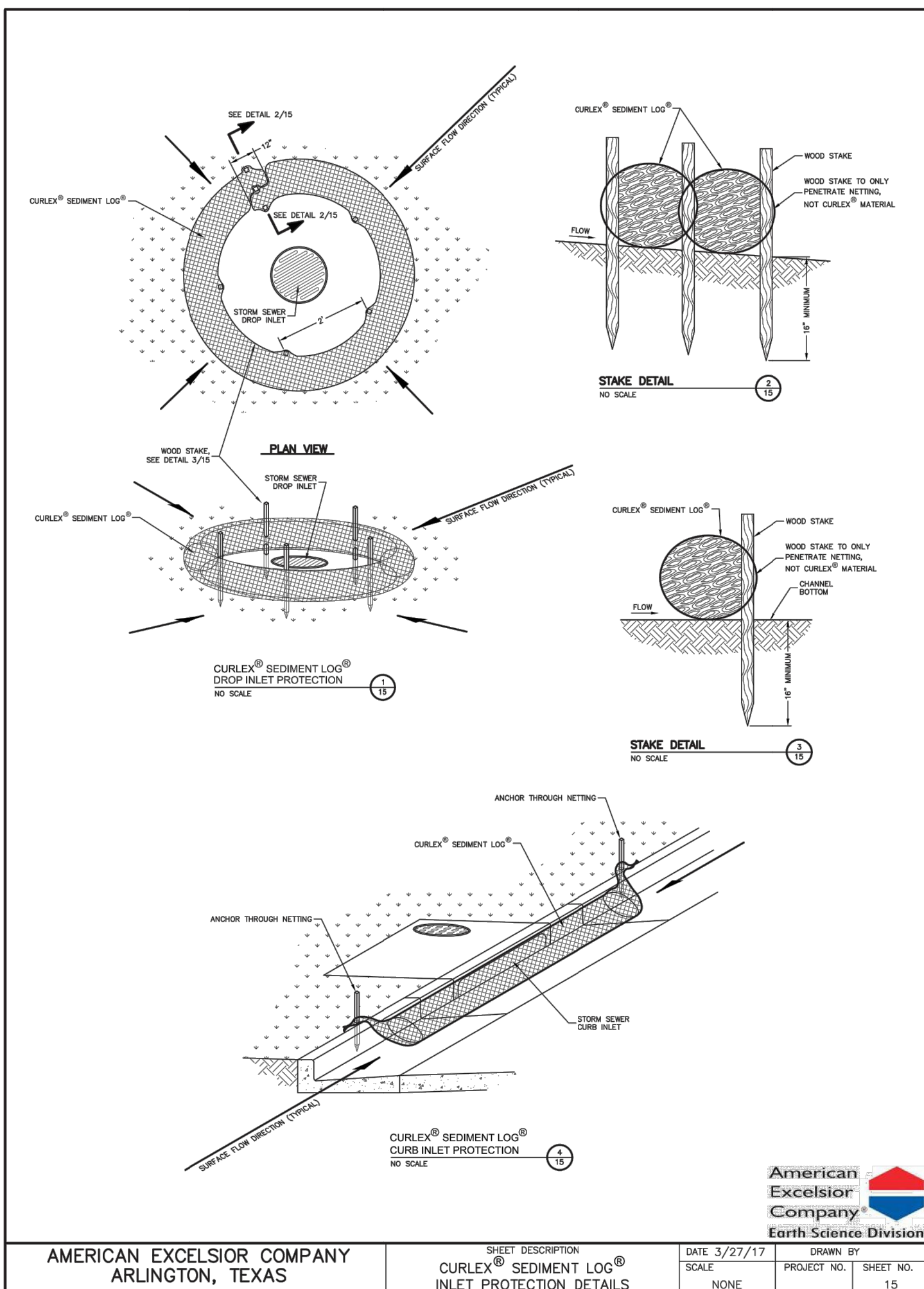
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- NOTES:
1. CONTRACTOR SHALL INSTALL SILT FENCE AT TOE OF SLOPES OF ALL AREAS AFFECTED BY CONSTRUCTION PRIOR TO ANY DISTURBANCE ON THE SITE.
 2. SILT FENCE SHALL REMAIN UNTIL VEGETATION HAS BEEN ESTABLISHED ON DISTURBED AREAS.
 3. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
 4. SILT FENCES SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO VERIFY THE FABRIC IS SECURELY ATTACHED TO THE POSTS, THE POSTS ARE SECURELY IN THE GROUND, AND THE FABRIC IS SECURELY IMBEDDED IN THE GROUND TO PREVENT RUNOFF FROM GOING UNDER ANY PART OF THE FENCE.
 5. CONTRACTOR SHALL REMOVE ALL SILT FENCES WHEN ALL DISTURBED AREAS ARE COVERED WITH A MINIMUM BOX VEGETATION. SEED AND MULCH ALL AREAS DISTURBED DURING REMOVAL.

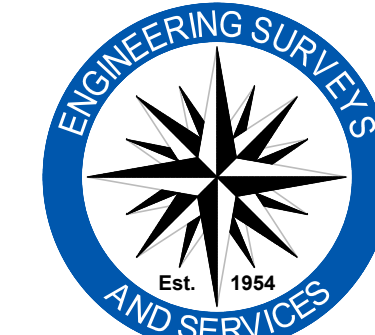
SILT FENCE DETAIL

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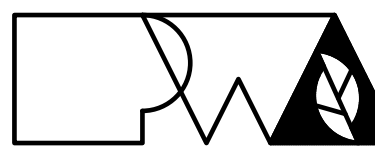
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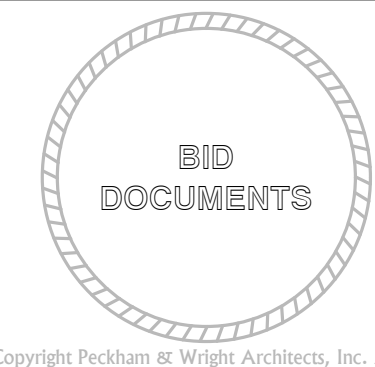


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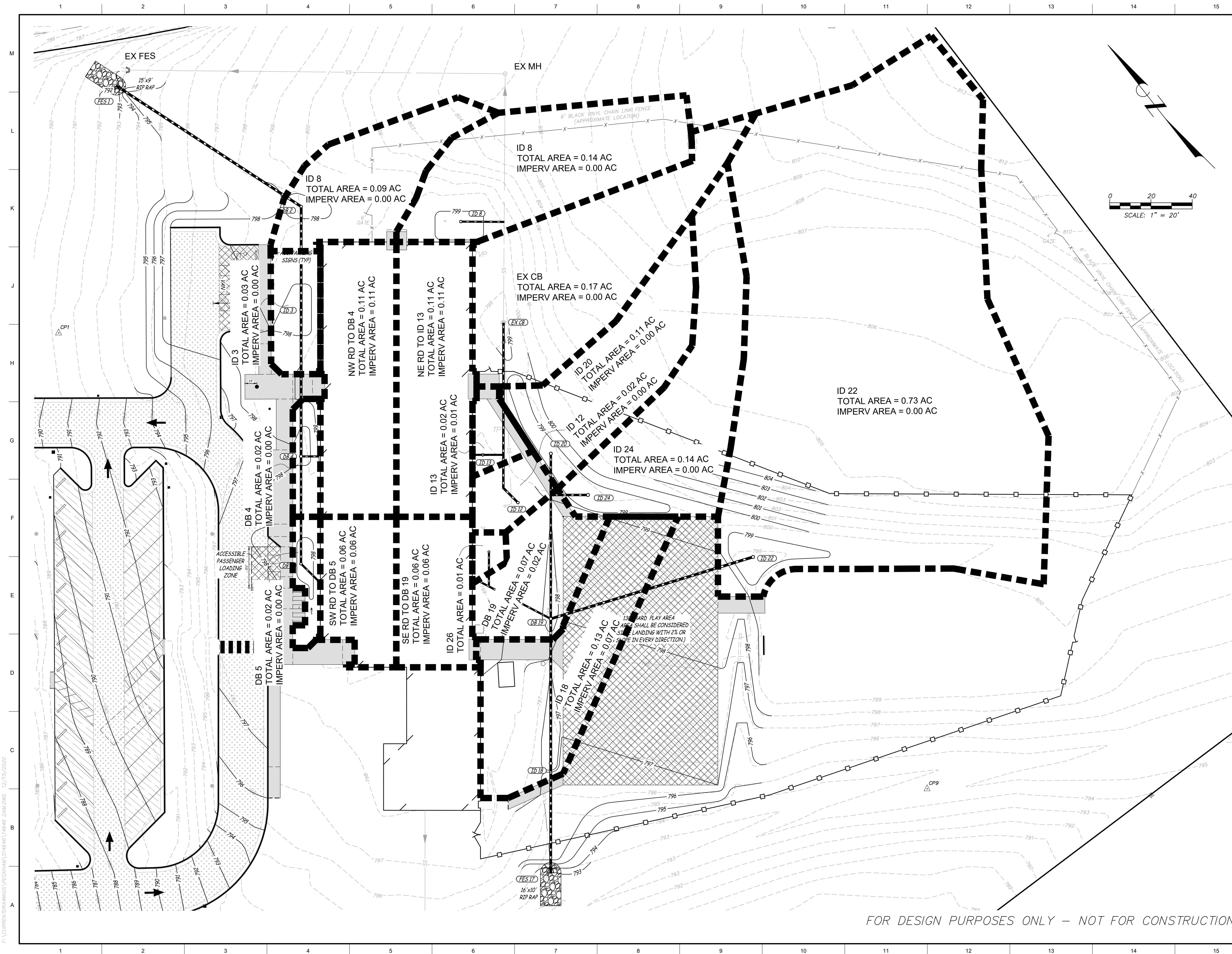


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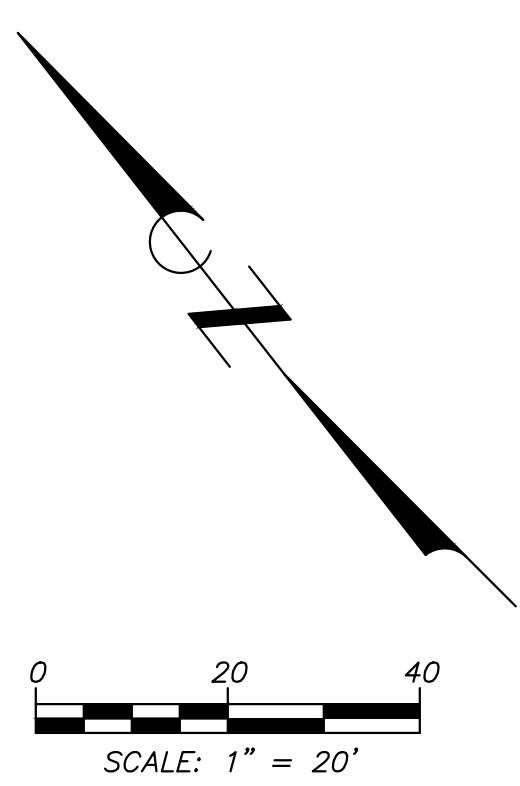
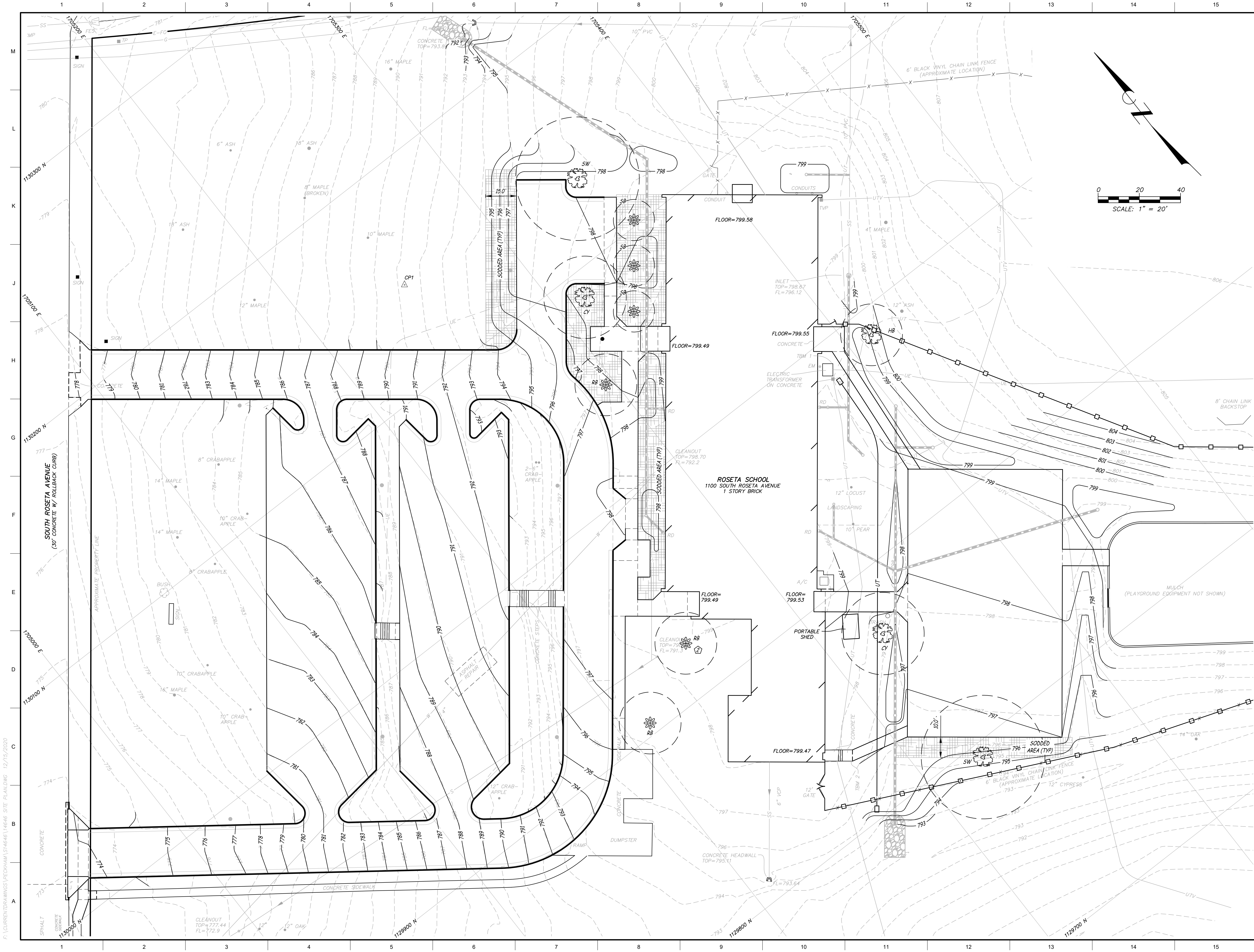


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12/17/2020

STATE OF MISSOURI

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PROFESSIONAL ENGINEER

NUMBER PE-2004017256

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CAD File Name (Number):

Drawing Title:
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| 2 | OWNER COMMENTS | 12/17/20 |
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Submission Date:
6/25/2020

Plot Date:
12/15/2020

Drawing Number:
L1.01

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LANDSCAPE NOTES

GENERAL NOTES

1. ALL PLANT MATERIAL SHALL BE:
- a. HARDY TO CENTRAL MISSOURI (USDA HARDINESS ZONE 5B)
 - b. FREE OF DISEASE AND INSECTS.
 - c. CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
2. PLANTING MATERIALS SHALL BE OF THE FOLLOWING MINIMUM SIZE:
- a. LARGE DECIDUOUS SHADE TREES (MATURE HEIGHT >45') = 2" CALIPER
 - b. MEDIUM DECIDUOUS SHADE TREES (MATURE HEIGHT 30'-45') = 2" CALIPER
 - c. SMALL DECIDUOUS SHADE TREES (MATURE HEIGHT 20'-30') = 4' IN HEIGHT
 - d. ORNAMENTAL TREE (MATURE HEIGHT <20') = 4' IN HEIGHT
 - e. CONIFER = 6' IN HEIGHT
 - f. SHRUBS = 5-GAL CONTAINER
 - g. GROUND COVER = APPROPRIATE FOR 50% COVERAGE WITHIN 2 GROWING SEASONS
 - h. GRASS, SEED, SOD = >80% PURE LIVE SEED, 99% WEED FREE
3. PLANTING SHALL BE COMPLETED WITHIN ONE PLANTING SEASON (SPRING TO FALL) OF THE COMPLETION OF EXTERIOR IMPROVEMENTS, OR WITHIN ONE YEAR OF THE ISSUANCE OF THE LAND DISTURBANCE PERMIT, WHICHEVER OCCURS LATER. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A PERFORMANCE BOND, ESCROW, LETTER OF CREDIT, OR OTHER INSTRUMENT ACCEPTABLE TO THE OWNER, FOR ANY WORK NOT COMPLETED OR ACCEPTED WITHIN THIS TIME FRAME.
4. NO SUBSTITUTIONS (INCLUDING CULTIVARS) SHALL BE ORDERED OR INSTALLED WITHOUT THE WRITTEN APPROVAL FROM THE LANDSCAPE DESIGNER.
5. BEFORE PLANTING REMOVE ALL EXCESS SOIL/MULCH FROM THE TOP OF THE ROOT BALL JUST EXPOSING THE ROOT FLARE, BURLAP FROM THE TOP OF THE ROOT BALL, WIRE BASKET/CONTAINER AROUND THE ROOT BALL.
6. PLANT SO ROOT FLARE IS LEVEL WITH THE SURROUNDING GROUND.
7. AFTER PLANTING, COVER A 4' DIAMETER AREA, OR TOTAL AREA DISTURBED FROM PLANTING, WHICHEVER IS LARGER, WITH 3" THICK SHREDDED HARDWOOD MULCH. PULL THE MULCH BACK FROM AROUND THE PLANT BASE SO NO MULCH TOUCHES THE BARK. MULCH VOLCANOES WILL NOT BE ACCEPTED.
8. ALL MULCH SHALL BE SHREDDED HARDWOOD MULCH.
9. ALL DISTURBED LANDSCAPE AREAS NOT COVERED WITH MULCH SHALL BE SODDED WHERE INDICATED, HYDROSEEDDED EVERYWHERE ELSE.
10. REQUIRED LANDSCAPE MAINTENANCE PERIOD AND ACCEPTANCE REQUIREMENTS ARE DEFINED IN THE PROJECT SPECIFICATIONS.
11. FOR A MINIMUM OF 3 MONTHS AFTER PLANTING, ALL PLANTS SHALL BE WATERED ONCE A WEEK WITH A MINIMUM OF 15 GALLONS BY A SLOW RELEASE WATERING DEVICE SIMILAR TO A TREEGATOR, OR APPROVED EQUAL IF 1" OR MORE OF RAIN FALLS ON THE SITE WITHIN 7 DAYS OF THE PREVIOUS WATERING. WATERING CAN BE SUSPENDED FOR 7 DAYS AFTER THE RAIN EVENT IF APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WATER.
12. ALL PLANTS SHALL BE INSTALLED IN LATE AUTUMN THRU WINTER (NOVEMBER 1ST TO MARCH 15TH) ONLY.
13. ALL VEGETATION SHALL DERIVE FROM RPM GROWTH OR SIMILAR.

| | | |
|-----------------|----|--------------------------|
| PROVIDED TREES: | 5 | LARGE & MEDIUM DECIDUOUS |
| | 6 | SMALL DECIDUOUS |
| TOTAL | 11 | TREES |

| SYMBOL | PLANT SCHEDULE | | | |
|---|---------------------------------------|-----|----------------------|-------------------------|
|  | LARGE TO MEDIUM DECIDUOUS SHADE TREES | | | |
| | LABEL | QTY | COMMON NAME | BOTANICAL NAME |
| | CY | 2 | BALD CYPRESS | TAXODIUM DISTICHUM |
| | HB | 1 | HERITAGE RIVER BIRCH | BETULA NIGRA 'HERITAGE' |
| | SW | 2 | SWAMP WHITE OAK | QUERCUS BICOLOR |

| SYMBOL | SMALL DECIDUOUS TREES | | | |
|---|-----------------------|-----|--------------------|---------------------|
|  | LABEL | QTY | COMMON NAME | BOTANICAL NAME |
| | RB | 3 | EASTERN REDBUD | CERCIS CANADENSIS |
| | SB | 3 | DOWNY SERVICEBERRY | AMELANCHIER ARBOREA |



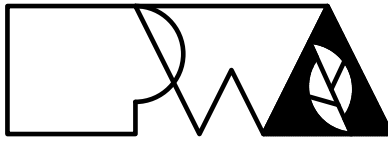
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COLUMBIA, MO 65201

| | | |
|----------------------------------|------------------------------|--------------------------|
| Drawn: BR | Project Number: | |
| Checked: ZKT | CAD File Name (Number): | |
| Drawing Title: LANDSCAPE PLAN | | |
| No. 1 | Revisions: OWNER COMMENTS | Date: 10/26/20 |
| No. 2 | OWNER COMMENTS | 12/17/20 |
| | | |
| | | |
| Submission Date: 6/25/2020 | | Drawing Number: L1.02 |
| Plot Date: 12/15/2020 | | |

| DOOR SCHEDULE | | | | | | | | | | | | | FRAME SCHEDULE | | | | Details | | | HDWR | | | |
|---------------|-----------|-----------------------------|-----------|----------------|------|--------|------------------|--------------|-----------|-----------|------------|-----------|------------------|-----------------|------|--------------|----------------|-------------------|-----------------|------------|----------------|--------------|---|
| No. | Location | Door Leaf Size (WxH) | Material | | | | | GLAZING | | | Material | | | | | | Hardware Group | | | | | | |
| | | | Thickness | Door Elevation | Wood | F.R.P. | Aluminum / glass | Hollow Metal | BALLISTIC | BALLISTIC | FIRE RATED | INSULATED | 1/2" PLATE GLASS | Frame Elevation | Wood | Hollow Metal | Aluminum | Lib - Temp. Glass | Insulated Glass | Head | Jamb | Threshold | |
| 01A | VESTIBULE | EXISTING PAIR 3'-0" x 7'-0" | 1-3/4" | - | | | A | | | | | | | | | A | | | | | | | 1 |
| 09A | OFFICE | 3'-2" x 7'-0" | 2-1/2" | 9A | | | A | | B | B | | | | | | | | | | K10 / A102 | K6 / A102 | K1-K4 / A102 | 2 |
| 09B | OFFICE | 3'-0" x 7'-0" | 1-3/4" | 9B | F | | | | | | | | G | | | HM | | | | F10 / A102 | C10 / A102 | - | 3 |
| 09C | OFFICE | 3'-0" x 3'-0" | 1-3/4" | 9C | F | | | | | | | | | | | HM | | | | - | D13-H16 / A102 | - | 4 |
| 09D | VESTIBULE | PAIR 3'-0" x 7'-0" | 1-3/4" | 9D | | | A | | | | | | G | | | A | | | | H10 / A103 | H4 / A102 | H1 / A102 | 5 |
| 09E | VESTIBULE | EXISTING PAIR 3'-0" x 7'-0" | 1-3/4" | - | | | A | | | | | | | | | A | | | | | | | 6 |
| 09F | VESTIBULE | EXISTING PAIR 3'-0" x 7'-0" | 1-3/4" | - | | | A | | | | | | | | | A | | | | | | | 7 |
| 11 | OFFICE | 3'-0" x 7'-0" | 1-3/4" | 11 | F | | | | | | | | G | | | HM | | | | H10 / A102 | C10 / A102 | - | 3 |

GENERAL FLOOR PLAN NOTES

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
3. LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
4. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
5. COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.

GENERAL REF. CEILING PLAN NOTES

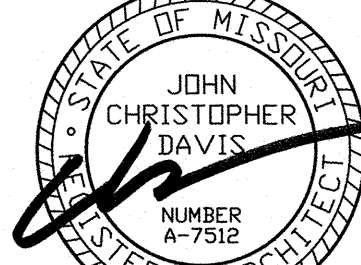
1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
3. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
4. COORDINATE ALL LIGHT FIXTURES, EQUIPMENT, GRILL AND VENTS WITH MEP DRAWINGS.

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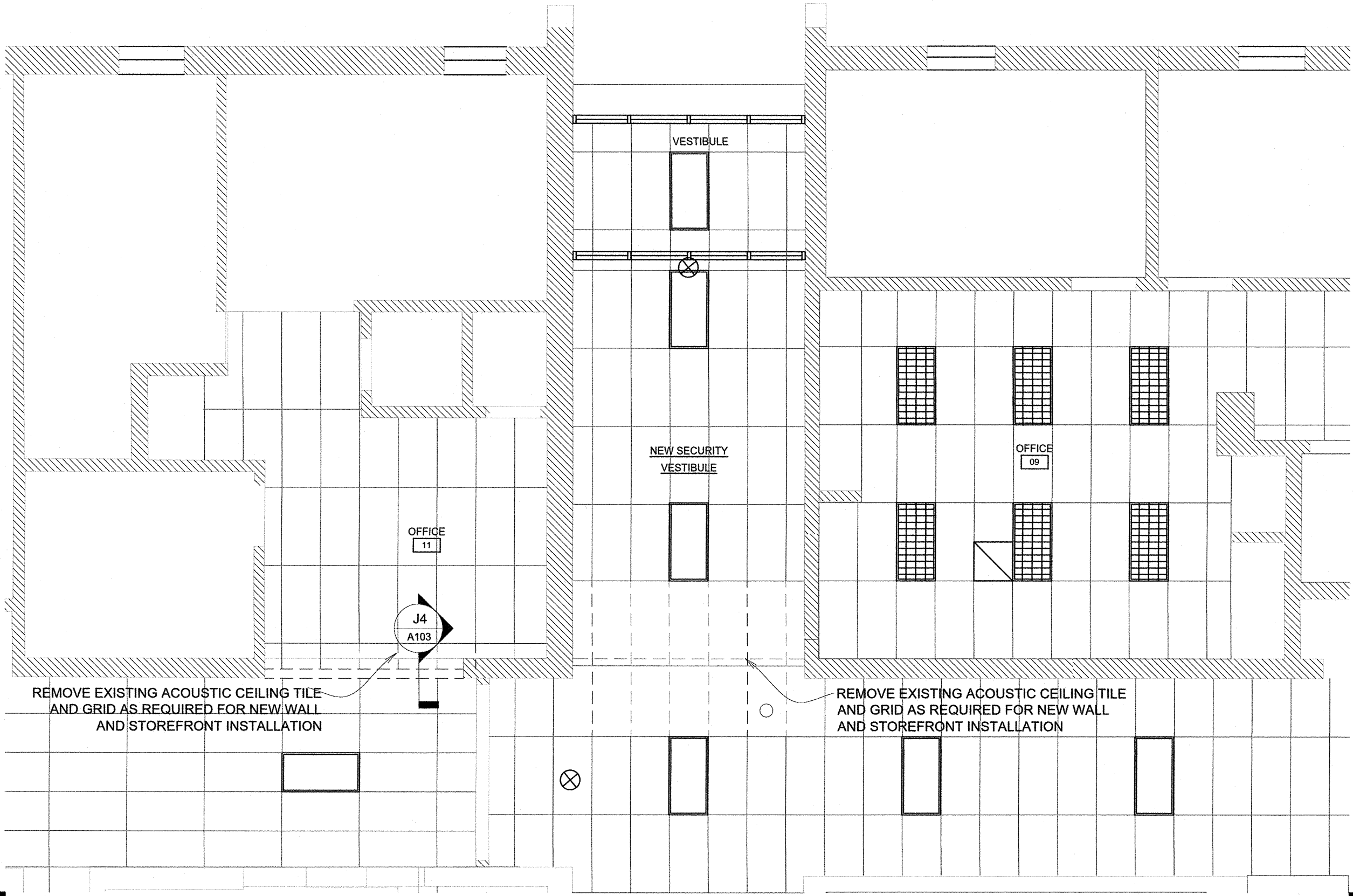
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Drawn: LC
Checked: CD
Drawing Title: PLANS AND SCHEDULES

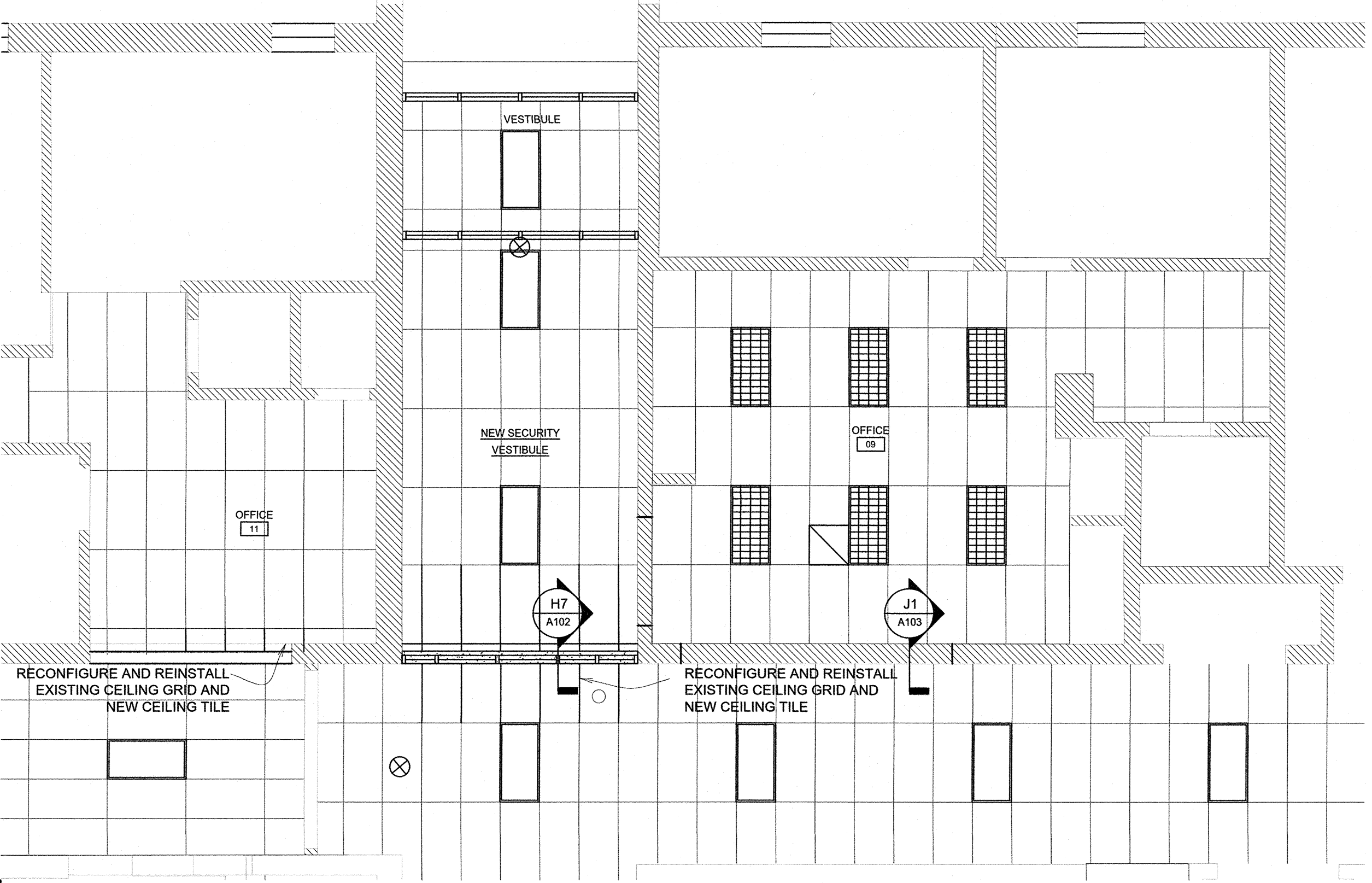
Project Number: 201621.51
CAD File Name (Number):

Submission Date: 12/17/2020
Plot Date: 12/02/2020

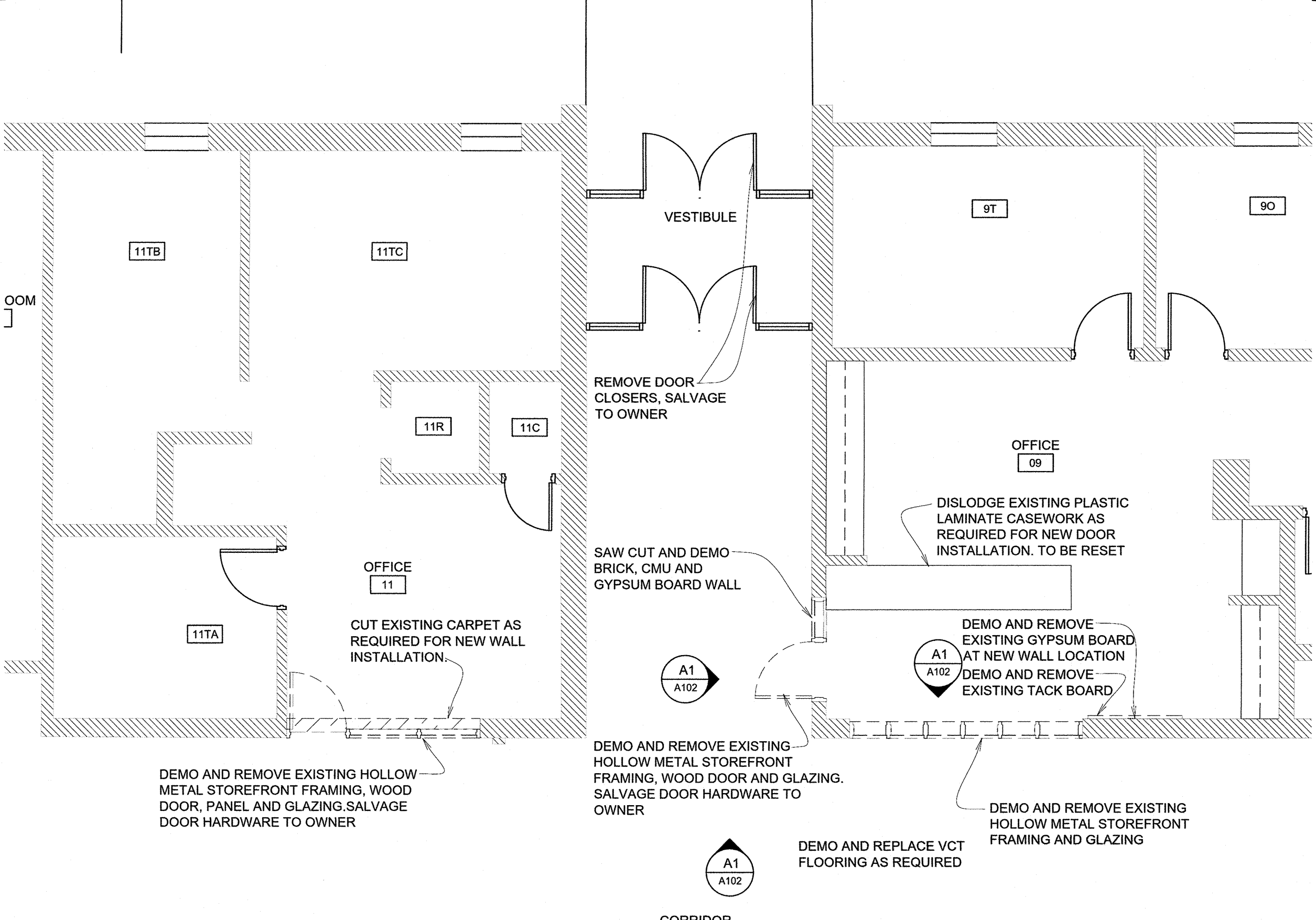
Drawing Number: A101



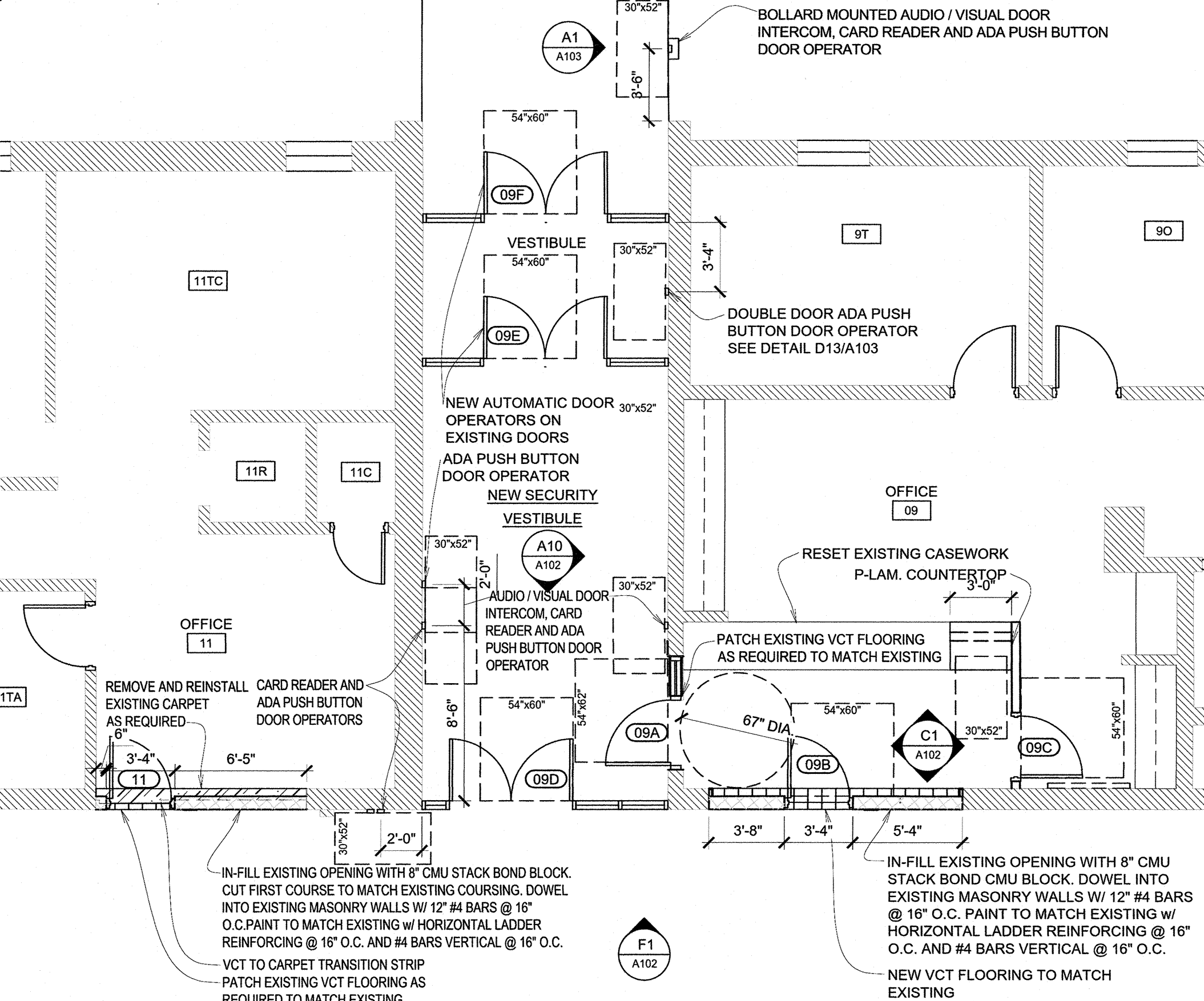
DEMOLITION CEILING PLAN
SCALE: 3/16" = 1'-0"



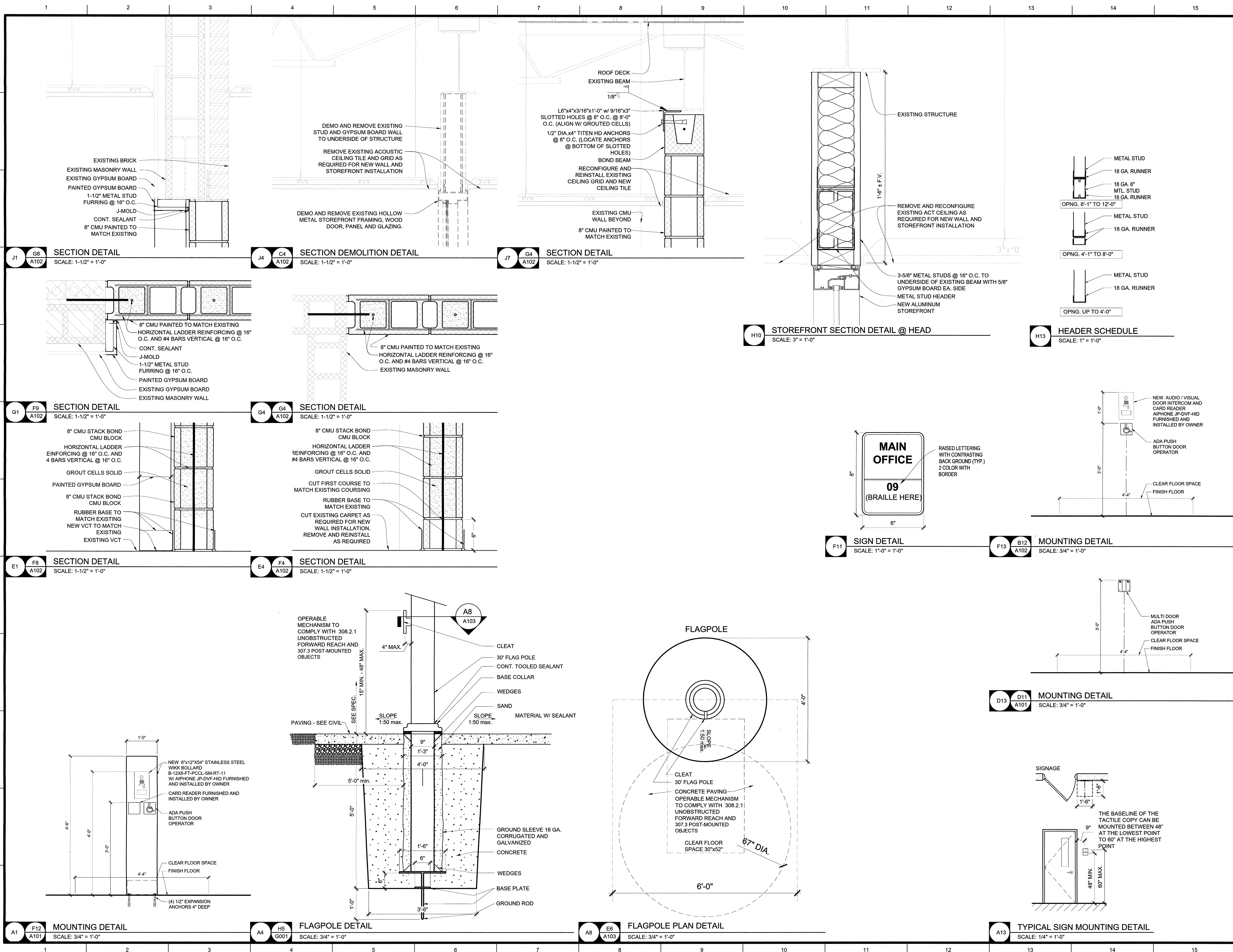
REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"



PARTIAL DEMOLITION FLOOR PLAN
SCALE: 3/16" = 1'-0"



PARTIAL FLOOR PLAN
SCALE: 3/16" = 1'-0"



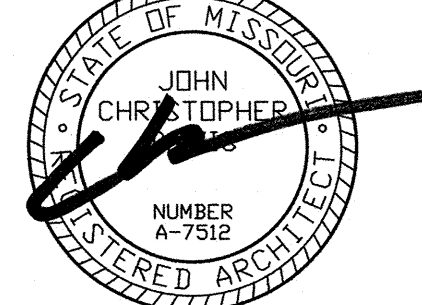
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| Drawn: | Project Number: 201621.51 |
| Checked: | CAD File Name (Number): |

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Drawing Title:

SECTIONS AND DETAILS

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Submission Date: Drawing Number:

2/17/2020 A103

Plot Date:

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| 2/16/2020 | |
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A103

Mechanical-Electrical-Plumbing Drawings for

ROSETA ACCESSIBILITY, SECURITY AND SAFETY IMPROVEMENTS

1100 ROSETA AVE.
COLUMBIA, BOONE COUNTY, MO

GENERAL MECHANICAL-ELECTRICAL-PLUMBING SPECIFICATIONS

- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES.
- ALL MATERIALS SHALL BE NEW, FIRST CLASS, AND INSTALLED TO MANUFACTURER'S WRITTEN SPECIFICATIONS.
- ALL SYSTEMS SHALL BE COMPLETE AND OPERABLE IN EVERY WAY.
- DO ALL EXCAVATION, BACK FILLING, CUTTING, PATCHING, OFFSETTING, ADJUSTING, AND BALANCING AS REQUIRED TO COMPLETE THE JOB.
- SPECIFIC MODELS ARE SPECIFIED TO ESTABLISH QUALITY ONLY. SUBSTITUTIONS MAY BE MADE WITH ENGINEER'S APPROVAL.
- GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM FINAL ACCEPTANCE. PROVIDE FIVE YEAR AIR CONDITIONING COMPRESSOR WARRANTY.
- INSPECT JOB SITE PRIOR TO BIDDING TO DETERMINE EXACT JOB REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
- ARCHITECTURAL DRAWING DIMENSIONS SHALL GOVERN IN ALL CASES. COORDINATE ENGINEERING DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT LAYOUTS AND LOCATIONS.
- LAYOUTS AND ROUTINGS SHOWN ON THE PLANS ARE APPROXIMATE AND GENERAL IN NATURE. CONTRACTORS ARE REQUIRED TO INSPECT THE JOBSITE FOR INTERFERENCES, OBSTRUCTIONS, AND CONFLICTS AND NOTIFY THE ENGINEER OF THE SAME, AND INCLUDE IN THEIR BID AND WORK SCOPE ALL ASSOCIATED COSTS TO MODIFY THE LAYOUTS AND ROUTINGS AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF THEIR WORK AROUND SUCH INTERFERENCES, OBSTRUCTIONS, AND CONFLICTS.
- CONTRACTOR IS TO INCLUDE COSTS FOR ALL PERMITS, INSPECTIONS, TAPS, METERS & FUEL ASSOCIATED WITH HIS WORK.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL DRAWINGS AND ASPECTS OF THE PROJECT SCOPE, AND FOR INCLUDING IN HIS BID ALL WORK ASSOCIATED WITH HIS TRADE, REGARDLESS OF WHICH DRAWING OR SHEET IT IS SHOWN ON.

FIRE PENETRATION NOTE

THIS PROJECT CONTAINS FIRE RATED ASSEMBLIES. LOCATIONS ARE INDICATED ON ARCHITECTURAL PLANS. ALL CONTRACTORS SHALL PROVIDE PROTECTION FOR THEIR PENETRATIONS THRU THESE ASSEMBLIES AS FOLLOWS.

- FOR ALL PENETRATIONS THRU OR INTO FIRE RATED VERTICAL OR HORIZONTAL ASSEMBLIES:
- A UL LISTED PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479 (BC 714.3).
 - GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN A BOOK WITH ALL FIRE PENETRATION PROTECTIVE SYSTEMS THAT WILL BE USED ON THIS PROJECT. THIS BOOK MUST REMAIN ON SITE AT ALL TIMES.

BASED ON THE FOLLOWING CODES

| | |
|------|--|
| 2015 | INTERNATIONAL MECHANICAL CODE |
| 2015 | INTERNATIONAL PLUMBING CODE |
| 2015 | INTERNATIONAL FUEL GAS CODE |
| 2015 | INTERNATIONAL FIRE CODE |
| 2014 | NATIONAL ELECTRIC CODE |
| 2015 | INTERNATIONAL ENERGY CONSERVATION CODE |

PLENUM SPACE NOTE

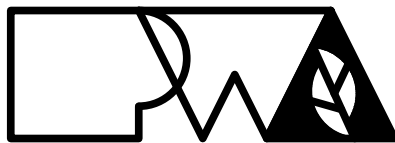
THIS PROJECT INCLUDES A PLENUM SPACE

CONTRACTORS SHALL USE NON COMBUSTIBLE OR PLENUM RATED MATERIALS ABOVE CEILING:
- EMT CONDUIT, CAST IRON SANITARY & VENT PIPING

SEE EACH SHEET FOR SPECIFIC PLENUM NOTES

SHEET INDEX

| SHEET # | SHEET NAME |
|---------|--|
| MEP1 | MECHANICAL ELECTRICAL PLUMBING COVER SHEET |
| MEP2 | SITE UTILITIES PLAN |
| MEP2.1 | SITE UTILITIES DETAILS AND SCHEDULES |
| MEP3 | SITE PHOTOMETRIC PLAN |
| EP100 | POWER PLAN |
| EL100 | LIGHTING PLAN |



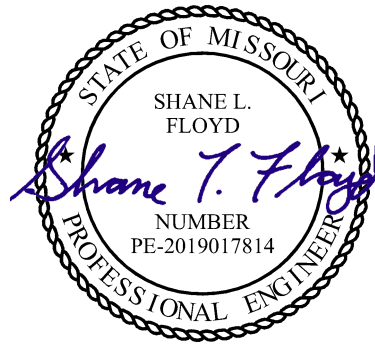
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| Drawn: | TE Project Number: |
| KMH | COL20082 |
| Checked: | PWA Project Number: |
| SLF | 201621.51 |

Drawing Title:
**MECHANICAL ELECTRICAL
PLUMBING COVER SHEET**

| No. | Revisions: | Date: |
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| | PERMIT SET | 06/25/2020 |
| | BID SET | 12/17/2020 |
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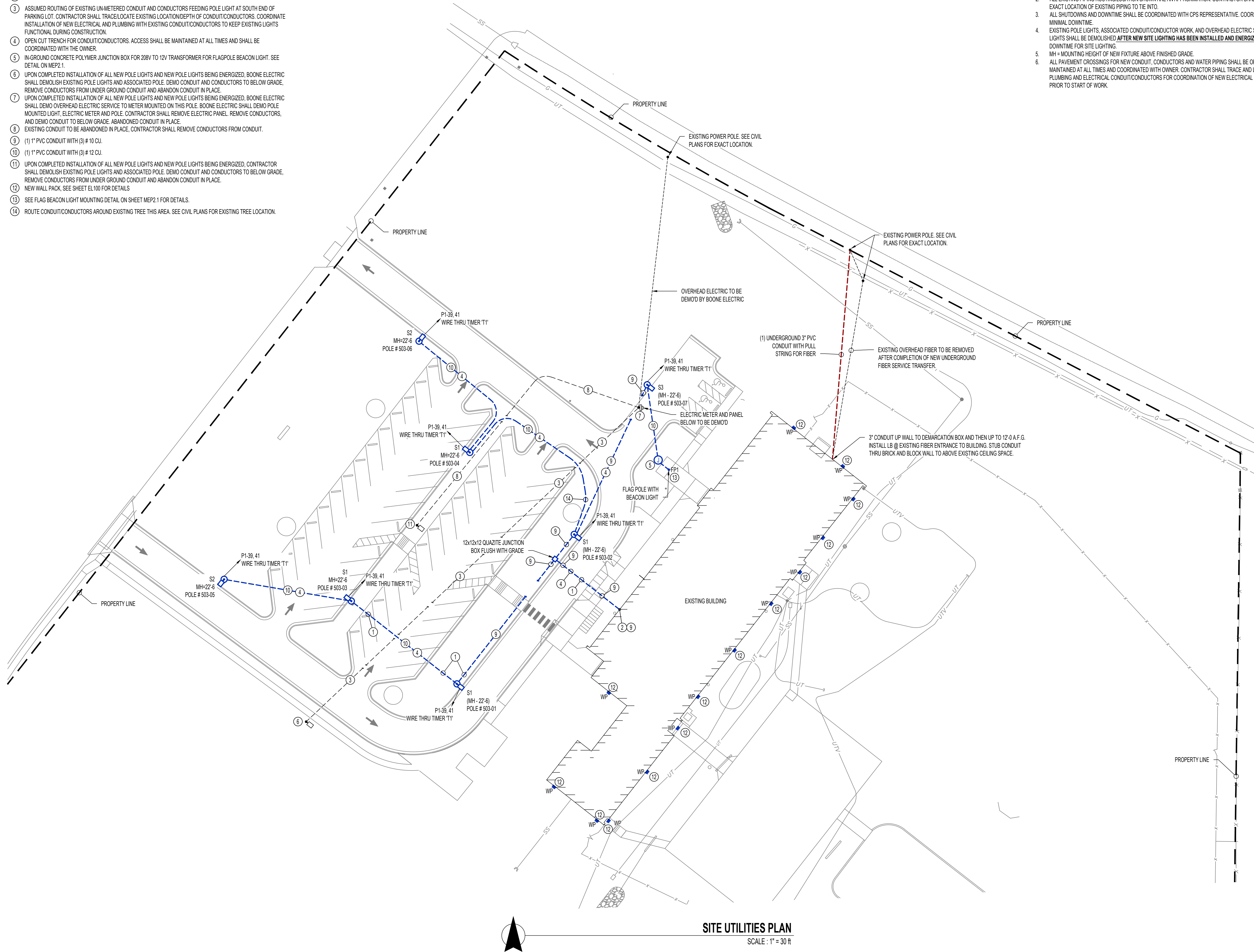
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| Submission Date: | Drawing Number: |
| 12/17/2020 | MEP1 |
| Plot Date: | |
| 12/17/2020 | |

KEY NOTES

- COORDINATE CONDUCTOR ROUTING & DEPTH WITH EXISTING SANITARY SEWER AND EXISTING WATER SERVICE PIPING.
- CONDUIT AND CONDUCTORS FROM ELECTRIC PANEL IN BUILDING. SEE SHEET EP100 FOR CONTINUATION AND DETAILS.
- ASSUMED ROUTING OF EXISTING UN-METERED CONDUIT AND CONDUCTORS FEEDING POLE LIGHT AT SOUTH END OF PARKING LOT. CONTRACTOR SHALL TRACE/LOCATE EXISTING LOCATION/DEPTH OF CONDUIT/CONDUCTORS. COORDINATE INSTALLATION OF NEW ELECTRICAL AND PLUMBING WITH EXISTING CONDUIT/CONDUCTORS TO KEEP EXISTING LIGHTS FUNCTIONAL DURING CONSTRUCTION.
- OPEN CUT TRENCH FOR CONDUIT/CONDUCTORS. ACCESS SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE COORDINATED WITH THE OWNER.
- IN-GROUND CONCRETE POLYMER JUNCTION BOX FOR 208V TO 12V TRANSFORMER FOR FLAGPOLE BEACON LIGHT. SEE DETAIL ON MEP2.1.
- UPON COMPLETED INSTALLATION OF ALL NEW POLE LIGHTS AND NEW POLE LIGHTS BEING ENERGIZED, BOONE ELECTRIC SHALL DEMOLISH EXISTING POLE LIGHTS AND ASSOCIATED POLE. DEMO CONDUIT AND CONDUCTORS TO BELOW GRADE. REMOVE CONDUCTORS FROM UNDER GROUND CONDUIT AND ABANDON CONDUIT IN PLACE.
- UPON COMPLETED INSTALLATION OF ALL NEW POLE LIGHTS AND NEW POLE LIGHTS BEING ENERGIZED, BOONE ELECTRIC SHALL DEMO OVERHEAD ELECTRIC SERVICE TO METER MOUNTED ON THIS POLE. BOONE ELECTRIC SHALL DEMO POLE MOUNTED LIGHT, ELECTRIC METER AND POLE. CONTRACTOR SHALL REMOVE ELECTRIC PANEL, REMOVE CONDUCTORS, AND DEMO CONDUIT TO BELOW GRADE. ABANDONED CONDUIT IN PLACE.
- EXISTING CONDUIT TO BE ABANDONED IN PLACE, CONTRACTOR SHALL REMOVE CONDUCTORS FROM CONDUIT.
- (1) 1" PVC CONDUIT WITH (3) # 10 CU.
- (1) 1" PVC CONDUIT WITH (3) # 12 CU.
- UPON COMPLETED INSTALLATION OF ALL NEW POLE LIGHTS AND NEW POLE LIGHTS BEING ENERGIZED, CONTRACTOR SHALL DEMOLISH EXISTING POLE LIGHTS AND ASSOCIATED POLE. DEMO CONDUIT AND CONDUCTORS TO BELOW GRADE. REMOVE CONDUCTORS FROM UNDER GROUND CONDUIT AND ABANDON CONDUIT IN PLACE.
- NEW WALL PACK, SEE SHEET EL100 FOR DETAILS.
- SEE FLAG BEACON LIGHT MOUNTING DETAIL ON SHEET MEP2.1 FOR DETAILS.
- ROUTE CONDUIT/CONDUCTORS AROUND EXISTING TREE THIS AREA. SEE CIVIL PLANS FOR EXISTING TREE LOCATION.

GENERAL NOTES

- ALL PIPING, FIXTURES AND DEVICES LABELED "EX" OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- ALL EXISTING PIPING ROUTING/LOCATION SHOWN ARE AN APPROXIMATION. CONTRACTOR SHALL LOCATE AND VERIFY EXACT LOCATION OF EXISTING PIPING TO TIE INTO.
- ALL SHUTDOWNS AND DOWNTIME SHALL BE COORDINATED WITH CPS REPRESENTATIVE. COORDINATE WORK TO PROVIDE MINIMAL DOWNTIME.
- EXISTING POLE LIGHTS, ASSOCIATED CONDUIT/CONDUCTOR WORK, AND OVERHEAD ELECTRIC SERVICE FEEDING POLE LIGHTS SHALL BE DEMOLISHED **AFTER NEW SITE LIGHTING HAS BEEN INSTALLED AND ENERGIZED** SO THAT THERE IS NO DOWNTIME FOR SITE LIGHTING.
- MH = MOUNTING HEIGHT OF NEW FIXTURE ABOVE FINISHED GRADE.
- ALL PAVEMENT CROSSINGS FOR NEW CONDUIT, CONDUCTORS AND WATER PIPING SHALL BE OPEN CUT. ACCESS SHALL BE MAINTAINED AT ALL TIMES AND COORDINATED WITH OWNER. CONTRACTOR SHALL TRACE AND LOCATE ALL EXISTING PLUMBING AND ELECTRICAL CONDUIT/CONDUCTORS FOR COORDINATION OF NEW ELECTRICAL AND PLUMBING SYSTEMS PRIOR TO START OF WORK.



SITE UTILITIES PLAN

SCALE : 1" = 30'



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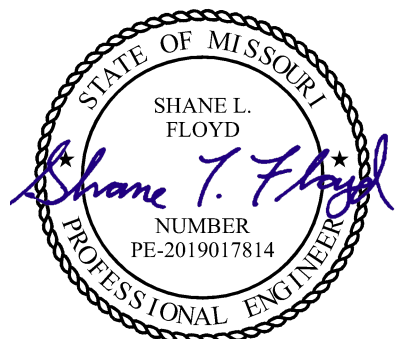


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| SLF | 201621.51 |

| SITE UTILITIES PLAN | | |
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| No. | Revisions: | Date: |
| | PERMIT SET | 06/25/2020 |
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| Submission Date: | Drawing Number: |
| 12/17/2020 | MEP2 |
| Plot Date: | |
| 12/17/2020 | |

GENERAL NOTES

1. MAX. / MIN. RATIOS CALCULATED PER LIGHTING ORDINANCES, BASED ON 95% OF POINTS, LOWER & UPPER 2.5% EXCLUDED.
2. POLE LOCATIONS, LIGHT FIXTURES AND FIXTURE MOUNTING HEIGHTS HAVE BEEN CAREFULLY SELECTED IN ORDER TO MEET REQUIRED LIGHTING LEVELS. ANY REQUESTED CHANGES MUST BE IN WRITING TO THE ENGINEER AND ACCOMPANIED BY A PHOTOMETRIC PLAN INDICATING THE COMPLIANCE WITH THE OWNERS AND THE LOCAL ORDINANCE LIGHTING REQUIREMENTS. CHANGES MUST BE APPROVED IN WRITING BY THE ENGINEER. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN THE CONTRACTOR REPLACING OR RELOCATING FIXTURES AND/OR POLES AT THEIR EXPENSE.



SITE PHOTOMETRIC PLAN
SCALE: 1" = 30' ft



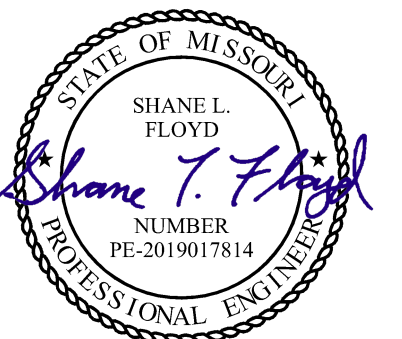
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| SLF | 201621.51 |

Drawing Title:
SITE PHOTOMETRIC PLAN

| No. | Revisions: | Date: |
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| Submission Date: | Drawing Number: |
| 12/17/2020 | MEP3 |
| Plot Date: | |
| 12/17/2020 | |

ELECTRICAL SPECIFICATIONS

- ALL CONDUCTORS SHALL BE THHN COPPER ABOVE GRADE, XHHW-2 BELOW GRADE, MINIMUM #12 OR LARGER AS REQUIRED OR SHOWN.
- ALL SERVICE WIRING, EXPOSED TO WEATHER, OR WIRING BELOW GRADE, SHALL BE IN RIGID GALVANIZED CONDUIT OR SCH. 40 PVC.
- ALL OTHER WIRINGS SHALL BE IN EMT, SCHEDULE 40 PVC, OR MC CABLE, UNLESS PROTECTED AND ENCLOSED WITHIN BUILDING MATERIALS, IN WHICH CASE TYPE NM CABLE MAY BE USED.
- WALL SWITCHES SHALL BE LEVITON #520 SERIES, OR APPROVED EQUAL. 20A COLOR SHALL BE DETERMINED BY ARCHITECT. DIMMER SWITCHES SHALL BE SELECTED BY CONTRACTOR TO BE COMPATIBLE WITH LIGHT FIXTURES PROVIDED. COLOR SHALL BE DETERMINED BY ARCHITECT.
- DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT LEVITON #7580 SERIES, OR APPROVED EQUAL. 20A, GROUNDING, MATCHING COVER PLATE, COLOR AS DETERMINED BY ARCHITECT. USE SIDE WIRING ONLY.
- ARC-FAULT CIRCUIT INTERRUPTER BREAKERS SHALL BE COMBINATION TYPE BY SQUARE D, AND SHALL HAVE A DEDICATED NEUTRAL WIRE THROUGHOUT THE CIRCUIT.
- THE ENTIRE SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND PROPERLY GROUNDED. EVERY FEEDER AND BRANCH CONDUIT SHALL HAVE CODE SIZED GREEN INSULATED GROUND CONDUCTOR.
- FURNISH AND INSTALL ALL LIGHTING FIXTURES, LAMPS, FUSES, BREAKERS, ETC. TO COMPLETE THE BRANCH CIRCUITS INDICATED.
- ALL 120V, 20A LIGHTING AND RECEPTACLE CIRCUITS REQUIRING MORE THAN 100' OF CONDUCTORS (ONE WAY) SHALL BE #10 CONDUCTORS, MINIMUM.
- PROVIDE TYPEWRITTEN BREAKER SCHEDULE IN EACH PANELBOARD INDICATING ITEMS AND DEVICES SERVED BY ALL BREAKERS IN EACH PANEL.
- PERMANENTLY LABEL DISCONNECTS FOR HVAC EQUIPMENT WITH EQUIPMENT SERVED, AND PANEL AND CIRCUIT NUMBER.
- UNDERGROUND SPLICES TO BE MADE WITH DEVICES RATED FOR THAT APPLICATION.
- ALL ELECTRICAL PANELS AND DISCONNECTS SHALL HAVE A PERMANENT ARC-FLASH LABEL AFFIXED PER NEC 110.16.
- ROUGH-IN FOR TEMPERATURE CONTROLS SHALL BE BY ELECTRICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND DETAILS.

POWER SYMBOL LEGEND

- XX POWER RECEPTACLE
MOUNTING HEIGHT (INCHES)
IF OTHER THAN 18" AFF (BOTTOM OF BOX)
- "WP" INDICATES WEATHERPROOF OUTDOOR RECEPTACLE
"AW" INDICATES ABOVE WINDOW RECEPTACLE
"C" INDICATES ABOVE CEILING
"E" INDICATES EXISTING RECEPTACLE TO REMAIN
"T" INDICATES TWIST LOCK RECEPTACLE
"TV" INDICATES CABLE AND 120V OUTLET MOUNTED AT 48" UNLESS NOTED OTHERWISE
- GFI DUPLEX CONVENIENCE OUTLET
- QUADPLEX CONVENIENCE OUTLET
- 208V OUTLET
- USB OUTLET EQUAL TO LEVITON #75832 OR APPROVED EQUAL
- DATA / TELEPHONE JACK (MOUNTED @ 18" AFF U.N.O.)
OUTLET BOX WITH 1" CONDUIT UP TO CEILING SPACE w/ PULL STRING.
PHONE & DATA WIRING BY OWNER'S SUBCONTRACTOR.
PHONE / DATA CABLEING TO BE PLENUM RATED.
DATA CABLEING TO BE CAT6.
- WIRELESS DATA ACCESS POINT (CEILING MOUNTED)
- N FLOOR POWER (WIREMOLD 880 MP FLOOR BOX OR EQUAL)
- IN FLOOR DATA (WIREMOLD 880 MP FLOOR BOX OR EQUAL)
- JUNCTION BOX
- DISCONNECT
- TIE INTO EXISTING
- ASTRONOMICAL TIME CLOCK SWITCH EQUAL TO INTERMATIC # ET8215C 120-277V.
SET TIMER TO TURN ON LIGHTS FROM DUSK TILL DAWN.

SECURITY SYMBOL KEY

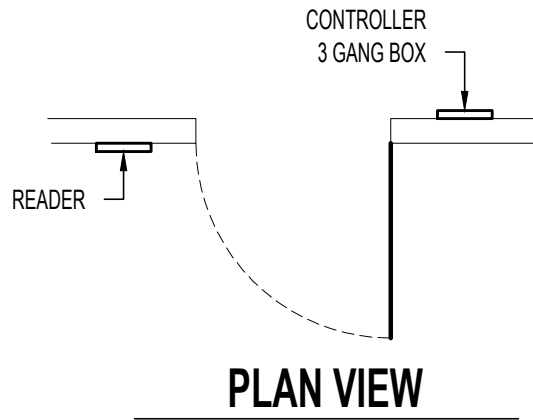
NOTE: SYMBOLS LEGEND IS COMPREHENSIVE. SOME SYMBOLS OR VARIATIONS THEREOF MAY NOT BE USED ON PLANS. MOUNTING HEIGHTS OF ALL ACCESSIBLE ACCESS CONTROL DEVICES SHALL BE PER ADA REQUIREMENTS LISTED BELOW UNLESS NOTED OTHERWISE. MOUNTING HEIGHTS OF ALL OTHER DEVICES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

- SECURITY SYMBOL
- INDICATES MOUNTING
C = CEILING
W = WALL
- INDICATES TYPE
AV = AUDIO / VISUAL INTERCOM (MOUNTED WITH BUTTON CENTERED AT 48" AFF)
C = CAMERA
D = DOOR / WINDOW SENSOR
EP = ELECTRICIFIED PANIC ROUTE 1/2" CONDUIT FROM ELECTRICIFIED PANIC IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO J-BOX AT 12'-0" AFF
G = GLASS BREAK DETECTOR (CEILING MOUNTED U.N.O.)
K = KEYPAD (WALL MOUNTED w/ TOP ROW OF KEYS @ 48" AFF)
M = MOTION DETECTOR
MC = MICROPHONE (CEILING MOUNTED U.N.O.)
O = DOOR OPERATOR
PB = PUSH BUTTON (WALL MOUNTED w/ BUTTON CENTERED @ 48" AFF)
PS = POWER SUPPLY FOR ACCESS CONTROLS LOCATED ABOVE CEILING AT AN ACCESSIBLE POINT. CIRCUIT (120V) AS SHOWN.
R = CARD READER (WALL MOUNTED w/ READER CENTERED @ 48" AFF)
ST = POWERED DOOR STRIKE
RT = ROUTE 1/2" CONDUIT FROM STRIKE IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO JUNCTION BOX @ 12' AFF IF CEILING IS NOT ACCESSIBLE
RT = ROUTE 1/2" CONDUIT FROM STRIKE IN DOOR FRAME TO ACCESSIBLE POINT ABOVE CEILING OR TO JUNCTION BOX @ 12' AFF IF CEILING IS NOT ACCESSIBLE
- INDICATES CAMERA VIEW DIRECTION

ELECTRICAL PLENUM SPACE NOTES

WIRING EXPOSED WITHIN A PLENUM SHALL CONFORM TO THE FOLLOWING:
COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL FIBER RACEWAY EXPOSED WITHIN A PLENUM SHALL HAVE A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD NOT GREATER THAN 5 FEET WHEN TESTED IN ACCORDANCE WITH UL 910. ONLY TYPE OFNP (PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE INSTALLED IN A PLENUM RATED OPTICAL FIBER RACEWAY.

COMBUSTIBLE ELECTRICAL EQUIPMENT WITHIN A PLENUM SHALL CONFORM TO THE FOLLOWING:
COMBUSTIBLE ELECTRICAL EQUIPMENT EXPOSED WITHIN A PLENUM SHALL HAVE A PEAK RATE OF HEAT RELEASE NOT GREATER THAN 100 KILO-WATTS, A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AND AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15 WHEN TESTED IN ACCORDANCE WITH UL 2043. COMBUSTIBLE ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED.



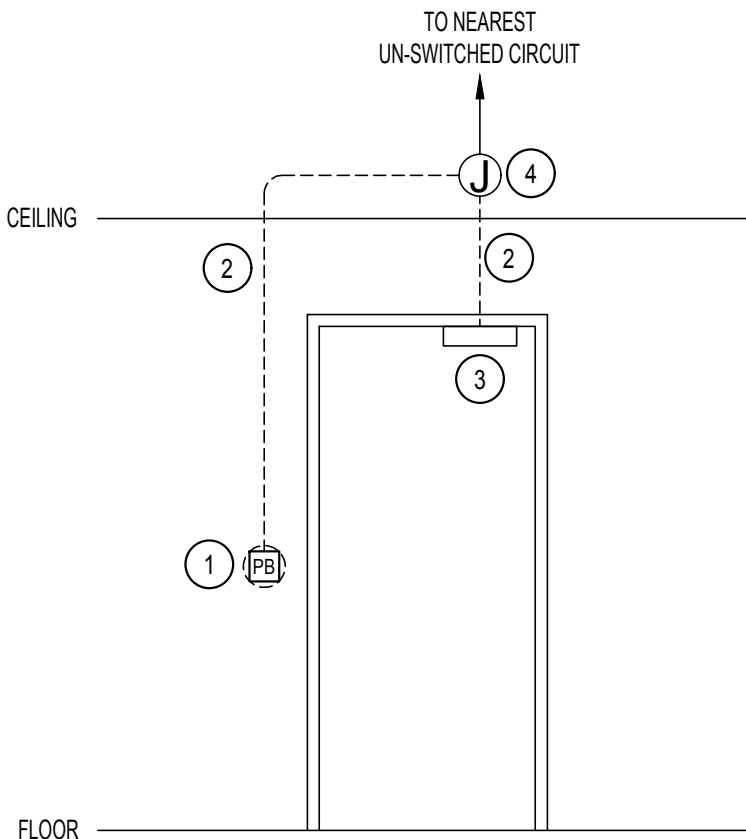
NOTES:

- LIMIT WIRE TO 300'-0" RUNS
- INTELLIGENT CONTROLLER TO HAVE 1'-0" EXTRA WIRE INSIDE BOX
- READER TO HAVE 2'-0" EXTRA WIRE OUTSIDE WALL
- STRIKE PLATE / ELECTRICIFIED PANIC WIRES TO HAVE 2'-0" EXTRA WIRE OUTSIDE STRIKE PLATE
- WIRES NEED TO BE LABELED ON BOTH ENDS
- READER TO BE MOUNTED AT HEIGHT PER ARCHITECTURAL DRAWINGS.
- READER TO BE MOUNTED ON ENTRY SIDE OF DOOR (SEE TOP VIEW)
- INTELLIGENT CONTROLLER TO BE MOUNTED ABOVE DOOR/CEILING IN 3 GANG BOX ON SECURED SIDE OF ROOM, (OPPOSITE SIDE OF READER)

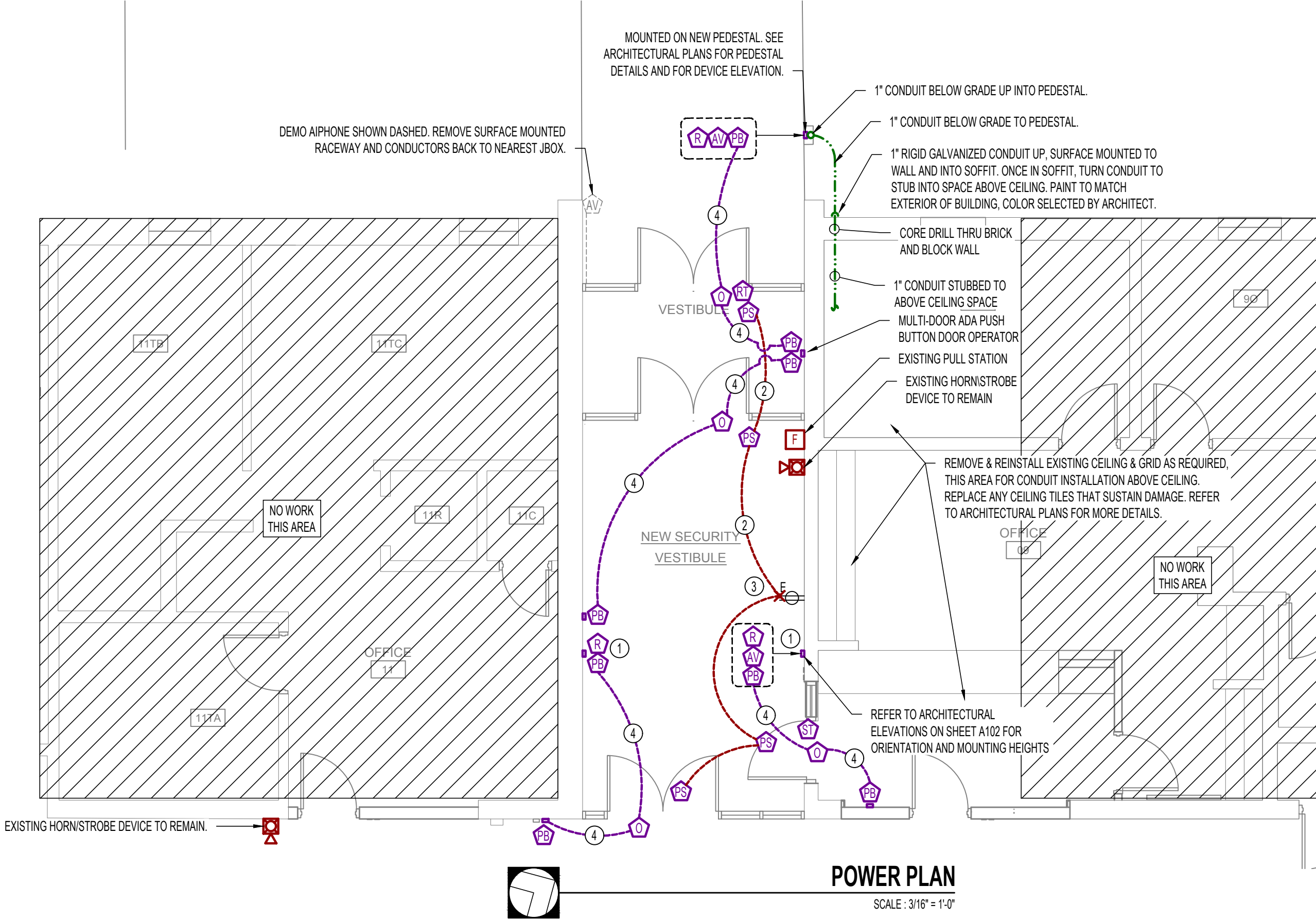
ACCESS CONTROL DETAIL

KEYED NOTES:

- J-BOX & ADA PUSH BUTTON MOUNTED PER ARCHITECTURAL PLANS.
- 1/2" EMT CONDUIT WITH LOW VOLTAGE CONDUCTORS (SIZE PER OPERATOR MANUFACTURER'S INSTRUCTIONS), TERMINATE AT PUSH BUTTONS AND AT DOOR OPERATOR/CONTROLLER.
- DOOR OPERATOR/CONTROLLER LOCATED ON DOOR JAMB OR ON DOOR (CONFIRM WITH ARCHITECT/SUPPLIER).
- J-BOX ABOVE CEILING OR BEHIND DOOR OPERATOR/CONTROLLER (CONFIRM WITH ARCHITECT/SUPPLIER), CONNECT TO OPERATOR/CONTROLLER WITH MC CABLE WITH ADEQUATE SLACK TO ALLOW DOOR OPERATION WITHOUT STRAINING CABLE.



AUTOMATIC DOOR OPERATOR WIRING SCHEMATIC

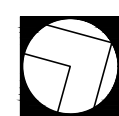


KEY NOTES

- CONCEALED WIRING TO CARD READER INSTALLED BY SECURITY SYSTEM VENDOR.
- CONDUIT AND CONDUCTORS ABOVE CEILING.
- TIE INTO EXISTING CONDUIT/CONDUCTORS STUBBED THRU BLOCK WALL ABOVE CEILING ON CORRIDOR FEEDING FROM EXISTING RECEPTACLE BELOW THIS APPROXIMATE LOCATION. INSTALL J-BOX AND TIE INTO CONDUCTORS TO FEED ACCESS CONTROL POWER SUPPLIES AS SHOWN.
- WIRELESS CONTROL FROM ADA PUSH-BUTTON TO DOOR OPERATOR.

GENERAL NOTES

- SECURITY DEVICE ROUGH-IN IS BY ELECTRICAL CONTRACTOR. ELECTRONIC STRIKES & WIRING BY ELECTRICAL CONTRACTOR. ALL OTHER WIRING & DEVICES BY OPS SUBCONTRACTOR.
- ALL ELECTRICAL CONDUIT & WIRING SHALL BE RUN IN PARALLEL, OR WITH BUILDING LINES.
- ALL WIRING SHALL BE RUN TIGHT TO BOTTOM OF JOIST WHERE POSSIBLE.
- PROVIDE AND INSTALL J-HOOKS AT 5'-0" O.C. FOR ALL NEW DATA CABLEING TO DATA CONDUIT SUPPLYING JACK IN WALL.
- ALL PHONE, DATA, INTERCOM WIRING SHALL BE INSTALLED BY OWNERS SUB CONTRACTOR. ELECTRICIANS SHALL INSTALL BOXES AND CONDUIT ONLY IN LOCATIONS INDICATED.



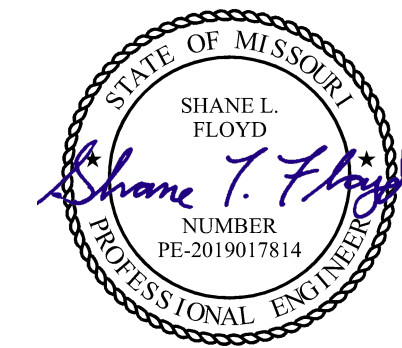
OVERALL POWER PLAN

SCALE : 3/32" = 1'-0"



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DECEMBER 17TH, 2020

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ROSETA AVENUE LEARNING
CENTER ACCESSIBILITY,
SAFETY AND SECURITY
IMPROVEMENTS
1100 S ROSETA AVENUE
Columbia, MO 65201

| | |
|----------|---------------------|
| Drawn: | TE Project Number: |
| KMH | COL20082 |
| Checked: | PWA Project Number: |
| SLF | 201621.51 |

POWER PLAN

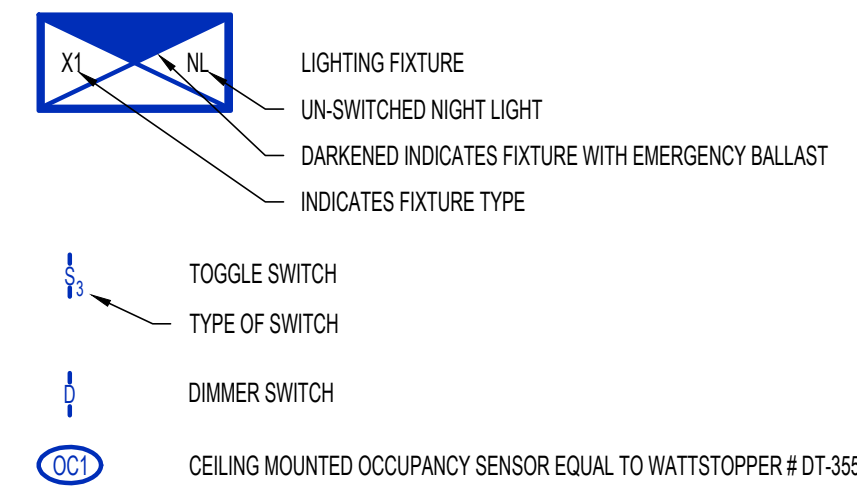
| No. | Revisions: | Date: |
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| | PERMIT SET | 06/25/2020 |
| | BID SET | 12/17/2020 |

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| Submission Date: | Drawing Number: |
| 12/17/2020 | EP100 |
| Plot Date: | |
| 12/17/2020 | |

ELECTRICAL SPECIFICATIONS

- ALL CONDUCTORS SHALL BE THHN COPPER ABOVE GRADE, XHHW-2 BELOW GRADE, MINIMUM #12 OR LARGER AS REQUIRED OR SHOWN.
- ALL SERVICE WIRING, EXPOSED TO WEATHER, OR WIRING BELOW GRADE, SHALL BE IN RIGID GALVANIZED CONDUIT OR SCH. 40 PVC.
- ALL OTHER WIRINGS SHALL BE IN EMT, SCHEDULE 40 PVC, OR MC CABLE, UNLESS PROTECTED AND ENCLOSED WITHIN BUILDING MATERIALS, IN WHICH CASE TYPE NM CABLE MAY BE USED.
- WALL SWITCHES SHALL BE LEVITON #650 SERIES, OR APPROVED EQUAL. 20A COLOR SHALL BE DETERMINED BY ARCHITECT. DIMMER SWITCHES SHALL BE SELECTED BY CONTRACTOR TO BE COMPATIBLE WITH LIGHT FIXTURES PROVIDED. COLOR SHALL BE DETERMINED BY ARCHITECT.
- DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT LEVITON #7580 SERIES, OR APPROVED EQUAL. 20A GROUNDING, MATCHING COVER PLATE, COLOR AS DETERMINED BY ARCHITECT. USE SIDE WIRING ONLY.
- ARC-FAULT CIRCUIT INTERRUPTER BREAKERS SHALL BE COMBINATION TYPE BY SQUARE D, AND SHALL HAVE A DEDICATED NEUTRAL WIRE THROUGHOUT THE CIRCUIT.
- THE ENTIRE SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND PROPERLY GROUNDED. EVERY FEEDER AND BRANCH CONDUIT SHALL HAVE CODE SIZED GREEN INSULATED GROUND CONDUCTOR.
- FURNISH AND INSTALL ALL LIGHTING FIXTURES, LAMPS, FUSES, BREAKERS, ETC. TO COMPLETE THE BRANCH CIRCUITS INDICATED.
- ALL 120V, 20A LIGHTING AND RECEPTACLE CIRCUITS REQUIRING MORE THAN 100' OF CONDUCTORS (ONE WAY) SHALL BE #10 CONDUCTORS, MINIMUM.
- PROVIDE TYPEWRITTEN BREAKER SCHEDULE IN EACH PANELBOARD INDICATING ITEMS AND DEVICES SERVED BY ALL BREAKERS IN EACH PANEL.
- PERMANENTLY LABEL DISCONNECTS FOR HVAC EQUIPMENT WITH EQUIPMENT SERVED, AND PANEL AND CIRCUIT NUMBER.
- UNDERGROUND SPLICES TO BE MADE WITH DEVICES RATED FOR THAT APPLICATION.
- ALL ELECTRICAL PANELS AND DISCONNECTS SHALL HAVE A PERMANENT ARC-FLASH LABEL AFFIXED PER NEC 110.16.

LIGHTING SYMBOL LEGEND



GENERAL NOTES

- FIXTURES LABELED 'EX' OR 'EXISTING' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- ALL EXIT, EMERGENCY, & NIGHT LIGHTS SHALL BE WIRED ON LIGHTING CIRCUIT IN SAME ROOM UN-SWITCHED.
- ALL NEW CONDUIT/CONDUCTORS SHALL BE ROUTED ABOVE CEILING UNLESS NOTED OTHERWISE.
- REMOVE AND REPLACE EXISTING CEILING GRID AS REQUIRED FOR NEW CONDUIT/CONDUCTOR INSTALLATION ABOVE CEILING. REPLACE ANY CEILING TILES THAT SUSTAIN DAMAGE. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
- MH= MOUNTING HEIGHT ABOVE FINISHED GRADE.

KEY NOTES

- EXISTING LIGHT FIXTURE TO REMAIN. RE-CIRCUIT THRU NEW CONTROLS AS SHOWN.
- REMOVE AND REPLACE EMERGENCY FIXTURE WITH NEW AT SAME LOCATION.
- EXISTING FIXTURE TO REMAIN. RE-CIRCUIT TO BE NIGHT LIGHT (NL) AS SHOWN.
- UPON COMPLETION OF NEW POLE LIGHT AND WALL PACK INSTALLATION AND FIXTURES ENERGIZED, CONTRACTOR SHALL DEMO ROOF MOUNTED FLOOD LIGHT, DEMO CONDUIT AND CONDUCTORS TO BELOW ROOF AND TO NEAREST J-BOX ABOVE CEILING. PATCH AND INSULATE ROOF PENETRATION PER ARCHITECTURAL DETAILS. COORDINATE WITH OWNERS ROOF WARRANTY REQUIREMENTS.
- DEMO EXISTING WALL PACK AND INSTALL NEW AT SAME LOCATION. WIRE THRU EXISTING EXTERIOR LIGHTING CIRCUIT.
- EXISTING LIGHT SWITCH TO BE DEMO'D. REMOVE CONDUCTORS TO NEAREST J-BOX ABOVE CEILING.
- EXISTING FIXTURE TO REMAIN. UNALTERED.
- EXISTING FIXTURE TO REMAIN.
- INSTALL NEW 3-WAY SWITCH IN NEW BLOCK WALL. CONDUIT AND CONDUCTORS SHALL BE ROUTED INSIDE NEW BLOCK WALL.
- CORE DRILL THRU EXISTING SHEET ROCK & BLOCK WALL ABOVE CEILING THIS LOCATION FOR CONDUIT/CONDUCTORS.
- ROUTE SURFACE MOUNT EMT CONDUIT ALONG INSIDE FACE OF BLOCK WALL FROM ABOVE CEILING DOWN TO 11'-4" A.F.G. AND CORE DRILL THRU BLOCK WALL TO WALL PACK LOCATION. PAINT CONDUIT TO MATCH WALL. COLOR SELECTED BY ARCHITECT.

ELECTRICAL PLENUM SPACE NOTES

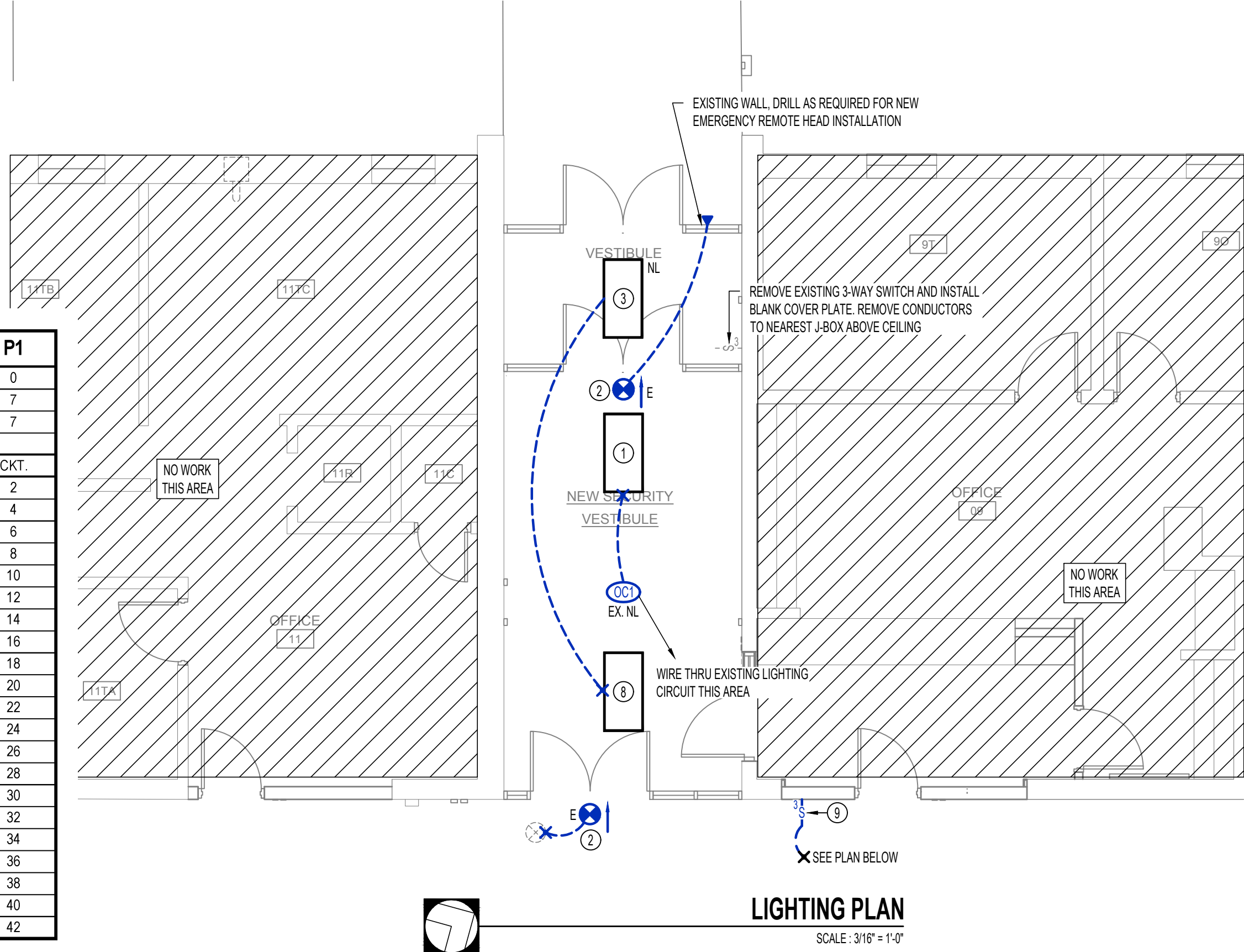
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COMBUSTIBLE ELECTRICAL EQUIPMENT WITHIN A PLENUM SHALL CONFORM TO THE FOLLOWING:
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| ELECTRICAL PANEL SCHEDULE | | | | | | EXISTING PANEL NO. | | P1 |
|---------------------------|-------------------------|-----------------|------|----------|------|--------------------|----------------|------|
| VOLTS: | 208 | MAIN CAPACITY: | | 400 MLO | | "A" AMPS = | | 0 |
| PHASE: | 3 | MOUNTING: | | RECESSED | | "B" AMPS = | | 7 |
| WIRE: | SEE RISER | BUSS MATERIAL: | | COPPER | | "C" AMPS = | | 7 |
| AIR: | SEE RISER | SQUARE D MODEL: | | NGO | | | | |
| CKT. | LOCATION/DESC. | BREAKER | AMPS | PH. | AMPS | BREAKER | LOCATION/DESC. | CKT. |
| 1 | HOT WATER HEATER | 100-2 | | A | | 70-2 | HEATER #1 | 2 |
| 3 | \ | | | B | | \ | \ | 4 |
| 5 | HEATER #5 | 70-2 | | C | | 30-2 | HEATER #8A | 6 |
| 7 | \ | \ | | A | | \ | \ | 8 |
| 9 | HEATER #4 | 70-2 | | B | | 20-2 | A/C RM 2 | 10 |
| 11 | \ | \ | | C | | \ | \ | 12 |
| 13 | HEATER #3 | 70-2 | | A | | 70-2 | HEATER #6 | 14 |
| 15 | \ | \ | | B | | \ | \ | 16 |
| 17 | HEATER #2 | 70-2 | | C | | 20-1 | A/C RM #4 | 18 |
| 19 | \ | \ | | A | | 20-1 | \ | 20 |
| 21 | HEATER #7 | 70-2 | | B | | 20-2 | A/C RM #5 | 22 |
| 23 | \ | \ | | C | | \ | \ | 24 |
| 25 | HEATER #7 | 60-2 | | A | | 40-2 | OVEN | 26 |
| 27 | \ | \ | | B | | \ | \ | 28 |
| 29 | RM 3 A/C | 20-2 | | C | | 30-2 | HEATER #6 | 30 |
| 31 | \ | \ | | A | | \ | \ | 32 |
| 33 | HEATER #2 | 30-2 | | B | | 20-2 | A/C RM #1 | 34 |
| 35 | \ | \ | | C | | \ | \ | 36 |
| 37 | SPACE | | | A | | 30-2 | HEATER #8A | 38 |
| 39 | PARKING LOT POLE LIGHTS | 20-2 | 7 | B | | \ | \ | 40 |
| 41 | \ | \ | 7 | C | | | SPACE | 42 |

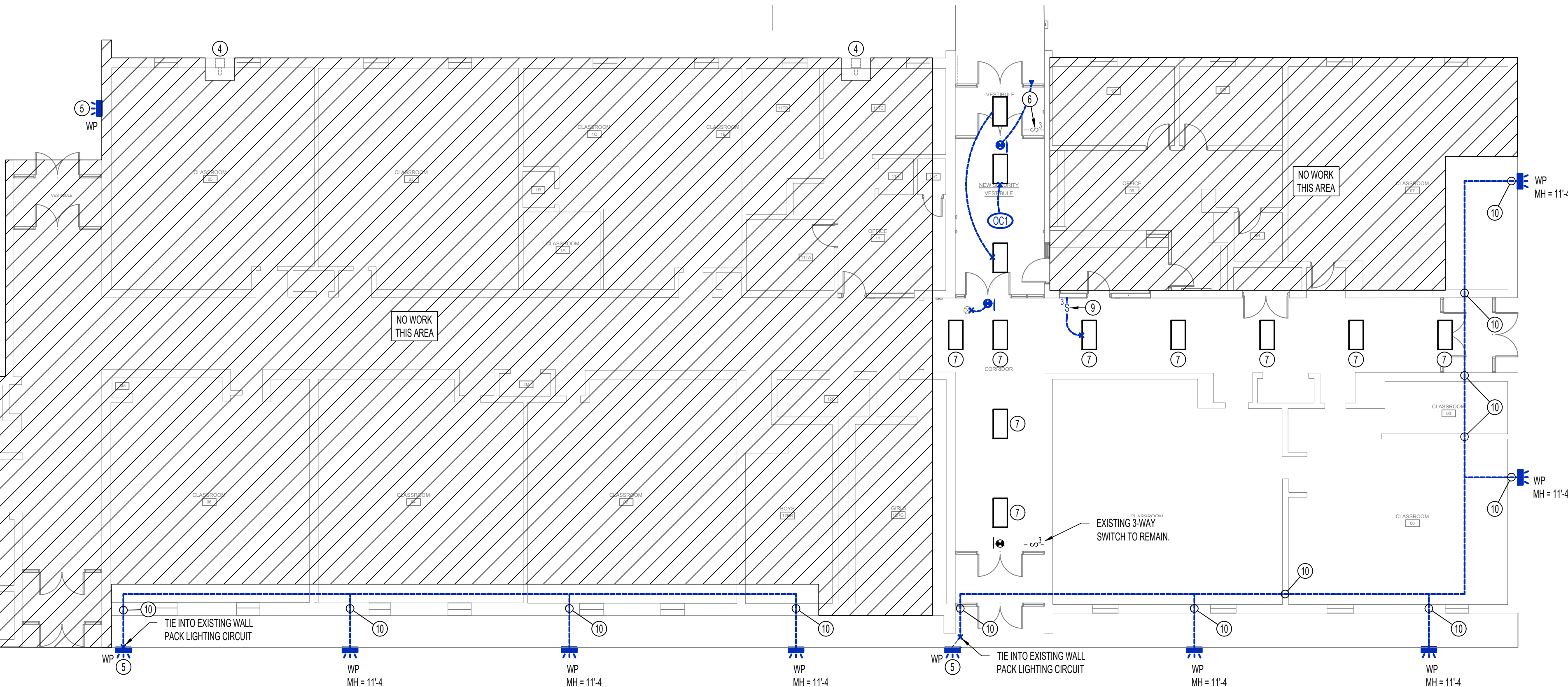
NOTE: ELECTRICIAN TO VERIFY ALL EQUIPMENT POWER REQUIREMENTS PRIOR TO ANY EQUIPMENT & BREAKER PURCHASE OR INSTALLATION.
ALL BREAKERS SHOWN IN **BOLD ITALICS** ARE NEW.

| LIGHTING SCHEDULE | | | | | | | | | | | | |
|-------------------|---------------|-------------|-------------------|---------|------|-------|--------|----------|-----|-------|----------|---------|
| MARK | MANUFACTURER* | MODEL NO.* | TYPE | VOLTS | AMPS | WATTS | LUMENS | CCT (°K) | CRI | LAMPS | MOUNTING | REMARKS |
| E | SURE-LITES | APCH7 UNV R | EM. LT/EXIT COMBO | 120/277 | 0.17 | | | | | LED | WALL/CLG | |
| * OR EQUAL | | | | | | | | | | | | |



LIGHTING PLAN

SCALE: 3/16" = 1'-0"



OVERALL LIGHTING PLAN

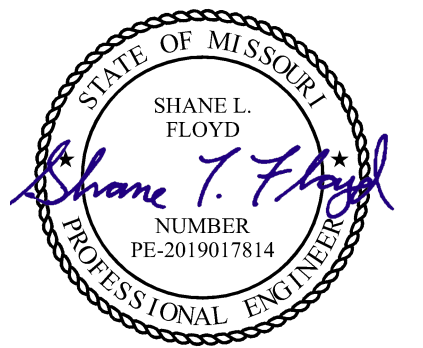
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DECEMBER 17TH, 2020

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ROSETA AVENUE LEARNING CENTER ACCESSIBILITY, SAFETY AND SECURITY IMPROVEMENTS
1100 S ROSETA AVENUE
Columbia, MO 65201

Drawn: KMH TE Project Number: COL20082
Checked: SLF PWA Project Number: 201621.51

Drawing Title: **LIGHTING PLAN**

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