

GENERAL NOTES:

- 1. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ARCHITECT IN A TIMELY MANNER. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT REQUIRE APPROVAL BY THE ENGINEER.
2. CONTRACTOR SHALL CONTACT THE CITY INSPECTION DEPARTMENT AT LEAST 48 HOURS BEFORE BEGINNING ANY SITE WORK.
3. ANY WORK IN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED TO THE STANDARDS OF THE GOVERNING AUTHORITY.
4. THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES (2004) SHALL BE CONSIDERED PART OF THESE PLANS AND USED AS THE SPECIFICATIONS FOR ITEMS EXCEPT AS OTHERWISE SHOWN ON THE PLANS OR IN THE PROJECT SPECIFICATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH THE OWNER PRIOR TO BEGINNING WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL GENERATED DURING CONSTRUCTION. WASTE MATERIAL MUST BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN SUCH A MANNER TO MEET ALL APPLICABLE REGULATIONS. (NO SEPARATE PAY ITEM.)
8. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT, AND WORK IN PROCESS.
10. TREES NOT NEEDED FOR REMOVAL SHALL BE PROTECTED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE TEMPORARY FENCE AROUND PROTECTED TREES TO DRIP LINE OF TREE CANOPY. THE ARCHITECT SHALL BE NOTIFIED IN ADVANCE OF ANY TRIMMING OR LANDSCAPE WORK TO BE DONE IN THE AREA OF PROTECTED TREES.
11. CONTRACTOR SHALL PROVIDE AND INSTALL PVC CONDUITS UNDER PAVEMENT/SIDEWALK AREAS FOR SITE IRRIGATION SYSTEM AND SITE LIGHTING PLANS AS SHOWN ON SITE UTILITY PLAN, MEP PLANS, AND LANDSCAPE IRRIGATION PLANS.
12. THE GRADING PLAN INDICATES FINISHED GRADES. FINISHED GRADING SHALL BE HAND SMOOTHED, READY FOR SOD AND THE INSTALLATION OF OTHER LANDSCAPING FOR THE ENTIRE SITE, WITHIN THE "LIMITS OF WORK".
13. THE TOP SOIL FINISH GRADE SHALL BE 2 INCHES BELOW THE TOP OF THE SIDEWALK. SOD, ONCE INSTALLED, SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK.
14. SLABS SHALL TYPICALLY HAVE AT LEAST A 6" EXPOSURE UNLESS SHOWN OTHERWISE.
15. THE LIMITS FOR WORK ON THIS PROJECT ARE SHOWN ON THE PLANS.

TRAFFIC NOTES

- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER AND SEQUENCE AS TO PROVIDE MAXIMUM PROTECTION TO TRAFFIC AND PEDESTRIANS. CONTROLS SHALL BE CONSISTENT WITH THE TYPE OF WORK BEING PERFORMED.
17. CONSTRUCTION WHICH BLOCKS TRAFFIC OF ANY STREET, ALLEY, OR DRIVEWAY IS SUBJECT TO APPROVAL OF AND RESTRICTION IMPOSED BY THE CITY TRAFFIC DIVISION.
18. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIMES FOR THE PROPERTY OWNERS AND BUSINESSES OF THE ADJUTING PROPERTY AND THE CROSS STREETS WHICH ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
19. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION WARNING SIGNS AT EACH END OF THE PROJECT TO WARN MOTORING AND PEDESTRIAN TRAFFIC THAT CONSTRUCTION IS IN PROGRESS AND OF POSSIBLE HAZARDOUS CONDITION GENERATED BY THE CONSTRUCTION.
20. DELINEATORS SHALL BE INSTALLED ALONG THE PAVEMENT EDGE TO WARN TRAFFIC OF ANY ROADSIDE OBJECTS OR HAZARDS AND TO DELINEATE THE ROADWAY EDGE DURING HOURS OF DARKNESS.

UTILITIES

- 21. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT.

SANITARY SEWER (SAWS) - 210-704-7297
WATER (SAWS) - 210-704-7297
ELECTRIC AND GAS (CPS ENERGY) - 210-353-3500
TELEPHONE (A.T.&T.) - 210-288-5127
GAS (GREY FOREST UTILITIES) - 210-695-8781
CATV - SPECTRUM - 888-369-2408
TEXAS STATE WIDE ONE CALL LOCATOR - 1-800-545-6005

- 22. OVERHEAD POWER LINES EXIST IN THE AREA OF THE PROJECT. CONTRACTOR SHALL MAINTAIN RECOMMENDED CLEARANCE REQUIREMENTS OF PROVIDER. TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN SIX (6) FEET OF ENERGIZED OVERHEAD POWER LINES. FEDERAL REGULATIONS, TITLE 29, PART 1910.180(I) AND PART (1926.550(A)(15) REQUIRE A MINIMUM OF TEN (10) FEET FROM THESE FACILITIES WHERE CONTRACTOR MUST WORK NEAR OVERHEAD POWER LINES. LINES WITHIN THESE LIMITS SHALL BE DE-ENERGIZED AND/OR MOVED AT CONTRACTOR'S EXPENSE.
23. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES OR FACILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO REPLACE THE UTILITY OR FACILITY BACK IN SERVICE AT THE CONTRACTOR'S EXPENSE.
24. THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITIES AND VERIFY EXISTING ELEVATION OF SAME AT ALL UTILITY CROSSINGS BEFORE COMMENCING ANY OTHER WORK. CONFLICTS SHALL BE REPORTED TO THE MANAGING ARCHITECT IMMEDIATELY.

- 25. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED UTILITIES EXITING BUILDING PRIOR TO COMMENCING WORK ON SITE UTILITIES. UPON DISCOVERY OF ANY DISCREPANCIES, THE MANAGING ARCHITECT SHALL BE NOTIFIED.
26. ELECTRIC METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH CITY PUBLIC SERVICE.
27. ON-SITE WATER AND SEWER SERVICES SHALL BE INSPECTED AS REQUIRED BY THE CITY PLUMBING INSPECTOR.
28. WATER SERVICE LINE SHALL BE SCHEDULE 40 PVC. LINE SHALL BE BEDDED IN AND BACKFILLED WITH A MINIMUM OF 6" OF WASHED SAND.
29. ALL SANITARY SEWER LINES PROPOSED ON THE SITE SHALL BE SDR 26 PVC. BEDDING AND INITIAL BACKFILL (12" ABOVE THE PIPE) SHALL BE GRAVEL (3/4" MAX TO DUST).
30. MISCELLANEOUS PVC FITTINGS REQUIRED TO ROUTE SANITARY SEWER OUTSIDE OF BUILDING ARE NOT CALLED FOR ON PLANS BUT SHALL BE FURNISHED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
31. TIE-INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITION UPON COMPLETION OF THE JOB SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING CODE.
32. CONTRACTOR TO CUT AND CAP ANY IRRIGATION LINES WHILE NOTING SIZE AND LOCATION IN THESE PLANS AS PART OF THE AS-BUILT SET.
33. CONTRACTOR SHALL DOCUMENT ANY REPAIRS MADE TO EXISTING LINES.

EARTHWORK

- 34. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS, LOCAL BUILDING CODE REQUIREMENTS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING AND RESTORING THE DRAINAGE SYSTEM TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION.
36. THE CONTRACTOR MUST CLEAN MUD, DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS BY ANY VEHICLE THAT EXITS OR ENTERS THE SITE.
37. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO MEET GEOTECHNICAL AND STRUCTURAL ENGINEER RECOMMENDATIONS.
38. ON-SITE SOILS UPON APPROVAL OF GEOTECH MAY BE PLACED UNDER PROPOSED PAVEMENT AREAS IF PLACED IN LOOSE LIFTS NOT EXCEEDING 6" IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DENSITY AS DETERMINED BY TXDOT, TEX-114-E. THE MOISTURE CONTENT SHALL BE WITHIN THE RANGE OF OPTIMUM WATER CONTENT TO 3% ABOVE THE OPTIMUM WATER CONTENT UNTIL PERMANENTLY COVERED.
39. PLACE BACKFILL AS PROMPTLY AND AS PRACTICAL AFTER COMPLETION OF EACH STRUCTURE OR PORTION OF A STRUCTURE. DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS OR SIMILAR STRUCTURES UNTIL CONCRETE HAS CURED AT LEAST SEVEN (7) DAYS.
40. ANY DRAINAGE STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
41. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL GRADES TO ASSURE POSITIVE DRAINAGE.
42. GRAVEL SUBGRADE FILLER SHALL CONSIST OF A WELL GRADED, CRUSHED STONE OR GRAVEL, APPROVED BY THE ENGINEER, ONE HUNDRED PERCENT (100%) PASSING A 1 3/4" SIEVE, AT LEAST NINETY-FIVE PERCENT (95%) PASSING A 1 1/2" SIEVE AND AT LEAST NINETY PERCENT (90%) RETAINED ON A ONE QUARTER INCH (1/4") SIEVE. THE CRUSHED STONE OR GRAVEL SHALL HAVE AN ABRASION OF NOT MORE THAN FORTY (40) WHEN SUBJECT TO THE LOS ANGELES ABRASION TEST.
43. INITIAL BACKFILL: INITIAL BACKFILL IS DEFINED AS BACKFILL HAVING A THICKNESS IN ITS COMPACTED STATE FROM THE SURFACE OF THE BEDDING TO A POINT ONE FOOT (1') ABOVE THE TOP OF THE PIPE. SELECT INITIAL BACKFILL MATERIAL SHALL CONFORM TO THE GRAVEL REQUIREMENTS OF BEDDING. FOR PIPES LESS THAN 24" IN DIAMETER, SELECT INITIAL BACKFILL SHALL BE PLACED IN TWO LIFTS. THE FIRST LIFT SHALL BE SPREAD UNIFORMLY AND SIMULTANEOUSLY ON EACH SIDE OF AND UNDER THE SHOULDERS OF THE PIPE TO ITS SPRING LINE. THE SECOND LIFT OF INITIAL BACKFILL SHALL EXTEND FROM THE SPRING LINE OF THE PIPE TO A DEPTH SUFFICIENT TO PRODUCE A COMPACTED DEPTH OF MATERIAL A MINIMUM OF ONE FOOT ABOVE MINIMUM OF ONE FOOT ABOVE THE TOP OF THE PIPE.
44. FOR PIPES 24" IN DIAMETER AND LARGER, SELECT INITIAL BACKFILL MATERIAL SHALL BE EVENLY AND SIMULTANEOUSLY SPREAD ALONGSIDE, UNDER THE SHOULDERS OR HAUNCHES OF THE PIPE AND OVER THE PIPE IN SIX INCH (6") LIFTS TO A POINT SUFFICIENT TO PRODUCE A COMPACTED DEPTH OF MATERIAL A THE TOP OF THE PIPE.
45. SECONDARY BACKFILL: SECONDARY BACKFILL IS DEFINED AS BACKFILL FROM ONE FOOT (1') ABOVE THE TOP OF THE PIPE TO THE TOP OF THE TRENCH. SECONDARY BACKFILL SHALL GENERALLY CONSIST OF MATERIALS REMOVED FROM THE TRENCH AND SHALL BE FREE OF BRUSH, DEBRIS AND JUNK. NO ROCK OR STONES HAVING ANY DIMENSION LARGER THAN 6 INCHES AT THE LARGEST DIMENSION SHALL BE USED IN THE SECONDARY BACKFILLING ZONE AND SHALL BE AT LEAST 1 FOOT BELOW FINISHED GRADE. SECONDARY BACKFILL MATERIAL SHALL BE COMPOSED OF PRIMARILY COMPACTIBLE SOIL MATERIALS.
46. WATER JETTING OR WATER FLOODING WILL NOT BE PERMITTED AS A METHOD OF COMPACTION. SECONDARY BACKFILL SHALL BE COMPACTED TO THE REQUIRED DENSITY OF NINETY-THREE PERCENT (93%) USING ANY SIZE AND TYPE OF EQUIPMENT WHICH WILL GIVE THE REQUIRED COMPACTION WITHOUT DAMAGING THE PIPE, BEDDING OR STRUCTURES. THE DEPTH OF LAYER, PRIOR TO COMPACTION, SHALL DEPEND UPON THE TYPE OF SPRINKLING AND COMPACTION EQUIPMENT USED TO ACHIEVE THE REQUIRED DENSITY AND THE TEST RESULTS THEREBY OBTAINED AND SHALL BE A MAXIMUM OF TWENTY FOUR INCHES (24"). PRIOR TO AND IN CONJUNCTION WITH THE COMPACTION OPERATION, EACH LAYER SHALL BE BROUGHT TO THE MOISTURE CONTENT NECESSARY TO OBTAIN THE REQUIRED DENSITY AND SHALL BE KEPT LEVEL TO INSURE UNIFORM COMPACTION OVER THE ENTIRE LAYER. ESTABLISHMENT OF THE OPTIMUM MOISTURE AND DENSITY WILL BE IN ACCORDANCE WITH TXDOT TEST METHOD TEX-113-E. DENSITY SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENT OF ASTM D 2922. EACH LAYER OF BACKFILL MUST PROVIDE THE DENSITY AS REQUIRED HEREIN. IF THE MATERIAL FAILS TO MEET THE DENSITY INDICATED, THE COURSE SHALL BE REWORKED AS NECESSARY TO OBTAIN THE INDICATED COMPACTION.
47. ALL WORK WITHIN THE CITY STREET OR STATE HIGHWAY RIGHT OF WAY MUST MEET THE INDICATED REQUIREMENTS IN THIS SECTION AS A MINIMUM AND SHALL MEET THE REQUIREMENTS INDICATED IN THE PLANS OR THE PERMIT ISSUED BY THE COUNTY, CITY, OR STATE WHEN THEIR REQUIREMENTS ARE MORE STRINGENT. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE TXDOT, CITY, OR COUNTY OFFICE AND FOR COORDINATING HIS ACTIVITIES WITH THE OPERATING PROCEDURE IN EFFECT FOR UTILITY CUT PERMITS AND PAVEMENT REPAIR UNDER THEIR JURISDICTION. APPROVAL FOR ALL COMPETED WORK IN THE CITY, STATE OR COUNTY RIGHT OF WAY MUST BE OBTAINED FROM THE APPROPRIATE OFFICIAL PRIOR TO FINAL ACCEPTANCE.

FLATWORK

- 48. ALL FLATWORK WITHIN PUBLIC R.O.W. SHALL BE DONE IN ACCORDANCE WITH THE CITY REQUIREMENTS.
49. CONTRACTOR SHALL ENSURE THAT THE SLOPE ON THE FINISHED SURFACE OF THE CONCRETE IN THE FIRST FIVE FEET OUTSIDE DOORS DOES NOT EXCEED 2%.
50. SEE GRADING PLANS FOR DROPS AT DOORS.
51. THE SLOPE OF SITE SIDEWALKS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 5% OR A CROSS-SLOPE OF 2%
52. THE PORTLAND CEMENT CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 5" AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. A LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL BE APPLIED AS SOON AS PRACTICAL AFTER BROOM FINISH IS APPLIED TO CONCRETE.
53. PRIOR TO BEGINNING PAVEMENT CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE TO ESTABLISH A JOINT PATTERN.

PAVING NOTES

- 54. REFERENCE PAVEMENT DETAILS AND NOTES ON DETAIL SHEET.
55. NO RAP OR RAS SHALL BE USED IN ASPHALT SURFACE COURSE.

PROJECT SIZE

- 56. CONTRACTOR IS NOT REQUIRED TO PROVIDE CONSTRUCTION TRAILER OR LARGE NISD PROJECT SIGN DUE TO PROJECT CONSTRUCTION COST UNDER \$1 MILLION.

CPS ENERGY NOTES

WHAT TO DO BEFORE/DURING EXCAVATION

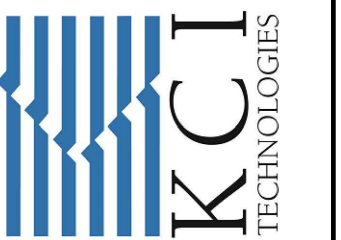
- WHITE LINING THE JOB SITE BEFORE YOU CALL 811 IS RECOMMENDED
• CALL 811- 2 BUSINESS DAYS BEFORE YOU DIG. EACH EXCAVATOR MUST HAVE THEIR OWN LOCATE REQUEST
• WAIT FOR A POSITIVE RESPONSE BEFORE YOU DIG. A POSITIVE RESPONSE INCLUDES MARKS ON GROUND, EMAIL NOTIFICATION, OR PHONE CALL.
• IF NO POSITIVE RESPONSE IS GIVEN THE EXCAVATOR MUST MAKE A SECOND CALL TO 811 (THE EXCAVATOR MUST WAIT 4 HOURS AFTER THE SECOND CALL IS MADE PRIOR DIGGING
• THE EXCAVATOR IS ALSO RESPONSIBLE FOR MAKING A SECOND CALL TO 811 IF THERE ARE NO LOCATES BUT THERE IS VISUAL INDICATION OF GAS OR ELECTRIC FACILITIES
• THE EXCAVATOR SHALL PROTECT AND PRESERVE LOCATE MARKINGS THROUGHOUT THE LIFE OF THE TICKET
• THE LOCATE REQUEST IS VALID FOR 14 BUSINESS DAYS OR WHEN MARKS ARE NO LONGER VISIBLE. REFRESHING THE LOCATE TICKET ON THE TWELFTH DAY IS RECOMMENDED
• MECHANIZED EQUIPMENT IS NOT ALLOWED WITHIN THE EXCAVATION TOLERANCE ZONE. THIS AREA IS 18-INCHES ON EITHER OUTSIDE OF EDGE OF EITHER SIDE OF THE GAS OR ELECTRIC FACILITY
• SIGNING AN EXCAVATORS AGREEMENT IS ALSO RECOMMENDED FOR LARGE PROJECTS WHERE THE SCOPE OF WORK IS TOO LARGE TO WHITE-LINE. THE LOCATE TICKET STILL NEEDS TO BE UPDATED EVERY 14 BUSINESS DAYS

IN CASE OF PIPELINE DAMAGE

- CALL 811 IMMEDIATELY BUT NO LATER THAN 2 HRS FOLLOWING THE DAMAGE. FOR CPS ENERGY GAS OR ELECTRIC DAMAGES CALL IMMEDIATELY 210-353-HELP (4357)
• DAMAGE INCLUDES THE FOLLOWING: DEFACING, SCRAPING, DISPLACEMENT, PENETRATION, DESTRUCTION, PARTIAL OR COMPLETE SEVERANCE OF AN UNDERGROUND PIPELINE OR OF ANY PROTECTIVE COATING, HOUSE/CASING, OR OTHER PROTECTIVE DEVICE OF AN UNDERGROUND PIPELINE
• REPORT ANY BROKEN GAS TRACER WIRE TO CPS ENERGY AT 210-353-HELP (4357)
• DO NOT TRY AND FIX DAMAGED LINE OR STOP PRODUCT FROM LEAKING
• DO NOT BACKFILL THE IMMEDIATE AREA OF DAMAGE, UTILITY OWNER WILL GIVE THAT ORDER
• MAKE AREA SAFE FOR CREW AND PUBLIC, KEEP SOURCES OF IGNITION AWAY FROM INCIDENT AREA
• KEEP UPWIND FROM PLUME OR VAPOR CLOUD
• MUST FILE A GAS DAMAGE REPORT WITHIN 10 BUSINESS DAYS OF INCIDENT ONLINE AT http://webapps.rrc.state.tx.us/TPD/publicHomeAction.do
• FOR CPS ENERGY RELATED EVENTS OR NATURAL GAS ODOR COMPLIANTS THE EMERGENCY NUMBER IS 210-353-HELP (4357)

Table with 4 columns: DESIGNED BY (PAM), DRAWN BY (ASU), APPROVED BY (PAM), JOB NO. (78E0670600)

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY: PAUL A. MATHEIS, P.E. NO. #105075 ON: JANUARY 31, 2024 DATE

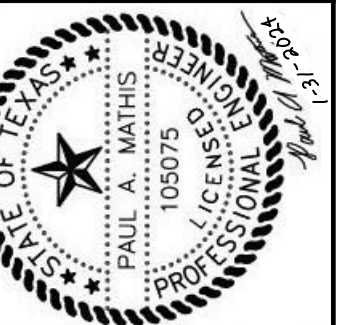


Table with 2 columns: REV, DATE

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALT ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
GENERAL NOTES

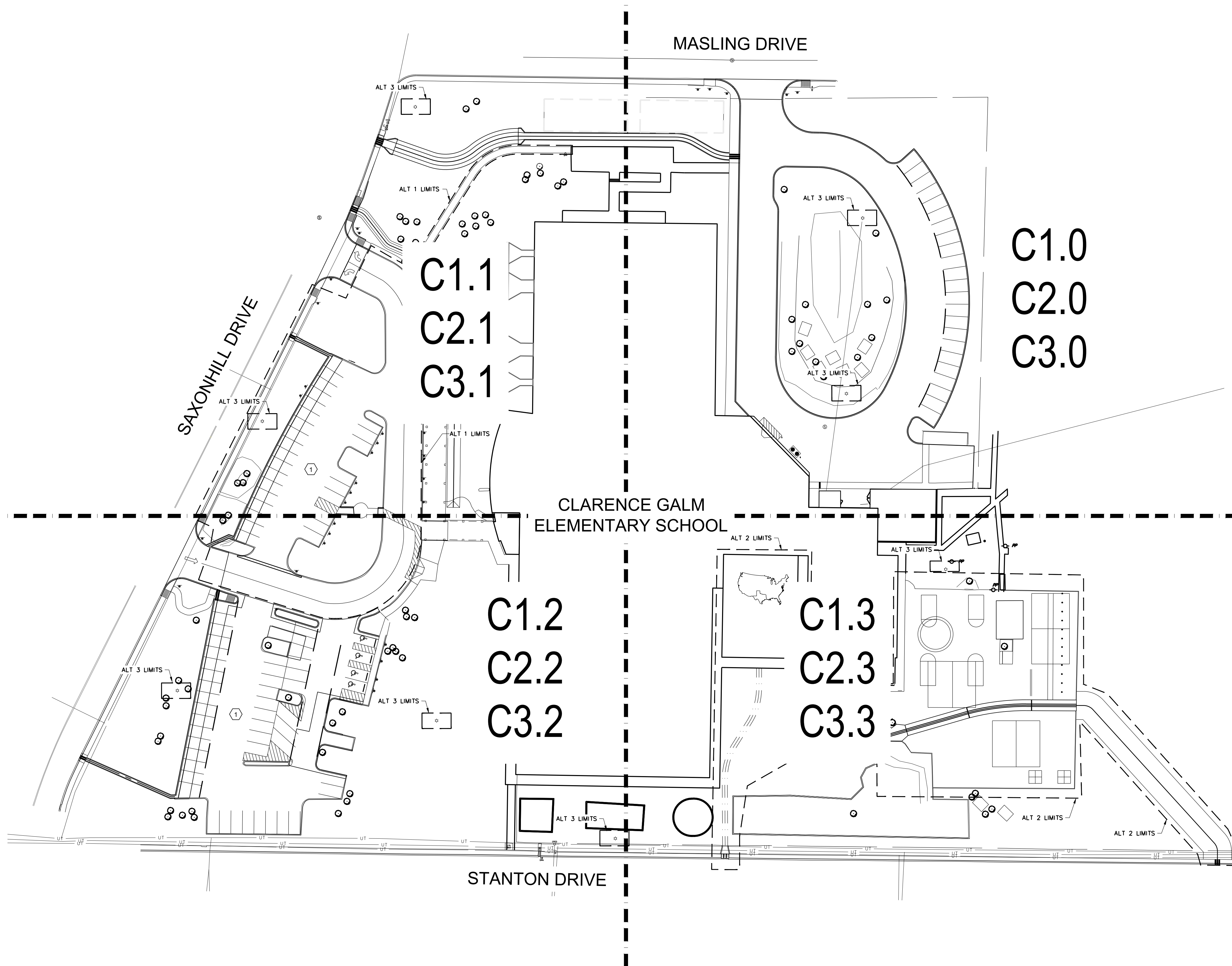
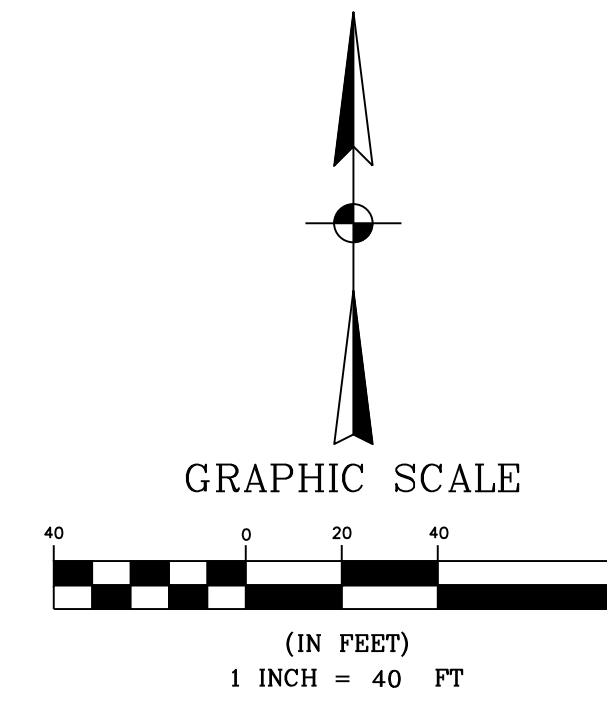
SHEET NO.

C0.1

JANUARY 31, 2024

PLAN NOTE:

① MAINTAIN ACCESS TO AT LEAST ONE PARKING LOT AT ALL TIMES.

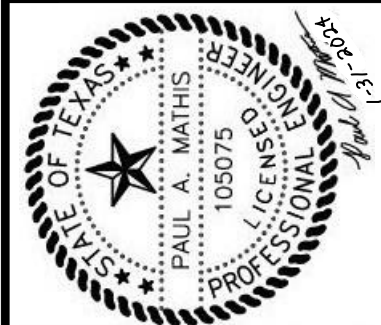


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 DATE



REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE
 IMPROVEMENTS
 OVERALL SITE PLAN

SHEET NO.
C0.2
 JANUARY 31, 2024

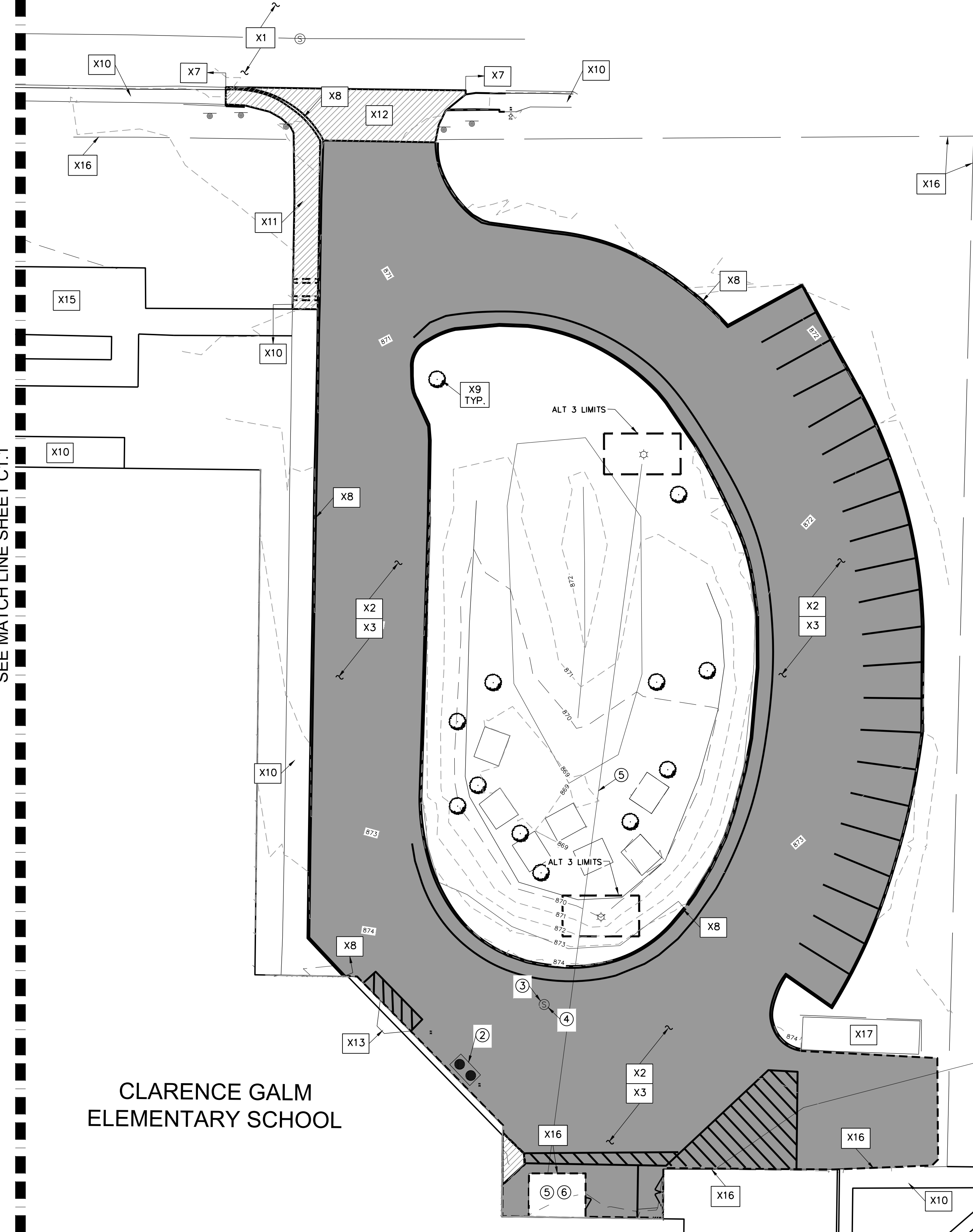
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MASLING DRIVE

SEE MATCH LINE SHEET C1.1

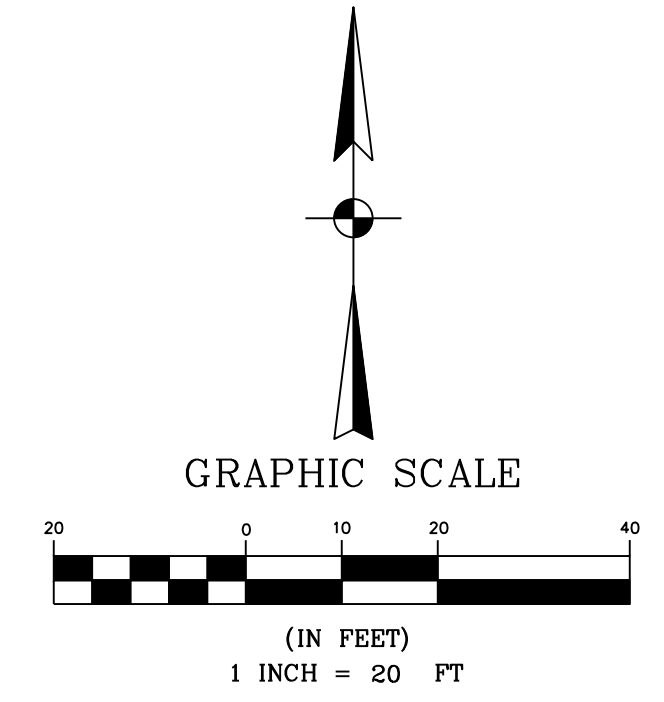
CLARENCE GALM
ELEMENTARY SCHOOL

SEE MATCH LINE SHEET C1.3



SUE NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.



**EXISTING SURVEY AND DEMOLITION
KEYED NOTES:**

- X1 EXISTING ASPHALT PAVEMENT TO REMAIN.
- X2 CONTRACTOR TO REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL (2' FROM FACE OF CURB, IF ADJACENT TO CURB). REFER TO THE GRADING PLAN FOR DETAILED LIMITS OF WORK. CONTRACTOR TO STRIPE AND REPLACE OTHER PAVEMENT MARKINGS AFTER REPLACEMENT OF PAVEMENT IS COMPLETE WHERE APPLICABLE.
- X3 CONTRACTOR TO REMOVE BASE MATERIAL TO PREPARE AREA FOR CONCRETE PAVEMENT.
- X4 CONTRACTOR TO REPAIR BASE AFTER REMOVAL OF TREE ROOTS. ALL TREE ROOTS TO BE CLEANLY CUT AND PAINTED ON ENDS.
- X5 CONTRACTOR TO MILL AND OVERLAY ASPHALT PAVEMENT.
- X6 CONTRACTOR TO SEAL COAT THIS AREA. EXISTING ASPHALT PAVEMENT TO REMAIN.
- X7 EXISTING CURB TO REMAIN.
- X8 CONTRACTOR TO DEMOLISH EXISTING CURB. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL.
- X9 EXISTING TREES TO REMAIN (ALL).
- X10 EXISTING SIDEWALK TO REMAIN.
- X11 CONTRACTOR TO REMOVE EXISTING SIDEWALK. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL, AT NEXT NEAREST JOINT.
- X12 CONTRACTOR TO REMOVE EXISTING CONCRETE DRIVEWAY.
- X13 EXISTING COVERED WALKWAY TO REMAIN.
- X14 CONTRACTOR TO CHIP OUT TOPPING SLAB FRO NEW TOPPING SLAB IN THIS AREA.
- X15 EXISTING BICYCLE RACK PAD.
- X16 EXISTING FENCE TO REMAIN.
- X17 EXISTING CONCRETE DUMPSTER PAD TO REMAIN.

- ① EXISTING OVERHEAD ELECTRIC, TELEPHONE AND CATV TO REMAIN.
- ② CONTRACTOR TO ADJUST MANHOLE TOP OF GREASE TRAP.
- ③ CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLE.
- ④ EXISTING SANITARY SEWER SERVICE.
- ⑤ EXISTING GAS SERVICE AND YARD. COORDINATE WITH CPS ENERGY FOR REPLACEMENT.
- ⑥ EXISTING GAS VALVES.
- ⑦ EXISTING UNDERGROUND ELECTRIC.
- ⑧ EXISTING UNDERGROUND TELEPHONE.
- ⑨ EXISTING TRANSFORMER AND TELEPHONE PEDESTAL.

GENERAL NOTES:

1. SEE COORDINATE (SERIES C2.0 SHEETS), AND GRADING (SERIES C3.0 SHEETS) PLANS FOR DIMENSIONS AND ELEVATIONS.
2. SEE SHEETS C3.4 FOR CIVIL DETAILS.
3. SEE SHEETS C4.0 SERIES FOR SWPPP, TEMPORARY BMP DETAILS AND TREE PROTECTION DETAILS.
4. THERE ARE EXISTING WATER SERVICES, SANITARY SEWER SERVICES, GAS, FIRE LINES, AND POTENTIALLY OTHER UTILITIES IN THE AREA. THE LOCATIONS OF THESE LINES HAVE NOT BEEN DETERMINED TO A DEGREE OF CERTAINTY, AS THERE ARE LIMITED RECORDS FOR THE EXISTING SITE. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY. ALL UTILITIES ENCOUNTERED SHALL BE DOCUMENTED ON A PLAN SET TO BE RETURNED TO THE OWNER AND ENGINEER.
5. CONTRACTOR TO CALL FOR UTILITY LOCATES PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR SHALL VERIFY THREE (3) CONTROL POINTS ON THE SITE AND NOTIFY ENGINEER OF ANY DISCREPANCY.
7. CONTRACTOR SHALL INSTALL ALL SWPPP MEASURES PRIOR TO STARTING ANY CLEARING OR DEMOLITION ON THE SITE.
8. CONTRACTOR SHALL HAVE ALL PERMITS PRIOR TO BEGINNING WORK IN THE RESPECTIVE AREAS OF THE PROJECT, ON-SITE OR WITHIN THE ROW.
9. CONTRACTOR SHALL ESTABLISH THE TRAFFIC CONTROL DEVICES AND COORDINATE SCHEDULES PRIOR TO BEGINNING ANY WORKING WITHIN THE ROW. ALL PERMITS SHALL BE CURRENT WHEN WORKING WITHIN THE ROW.
10. A PRE-CONSTRUCTION MEETING SHALL BE HELD BEFORE WORK BEGINS ON THE PROJECT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING CONDITIONS OF THE SITE AND SURROUNDING AREAS PRIOR TO THE START OF CONSTRUCTION WITH PHOTOGRAPHS.

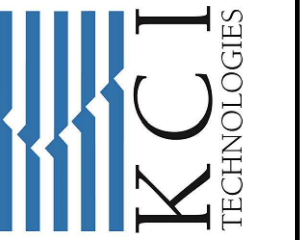
LEGEND:

- DEMO ASPHALT PAVEMENT
- DEMO CONCRETE PAVEMENT AND SIDEWALK
- MILL AND OVERLAY ASPHALT PAVEMENT
- SEAL COAT EXISTING ASPHALT PAVEMENT.
- ALTERNATE LIMITS

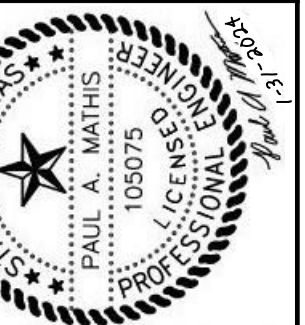
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PAUL A. MATSIS, P.E.
NO. #105075
ON: JANUARY 31, 2024
DATE



REV	DATE	DESCRIPTION

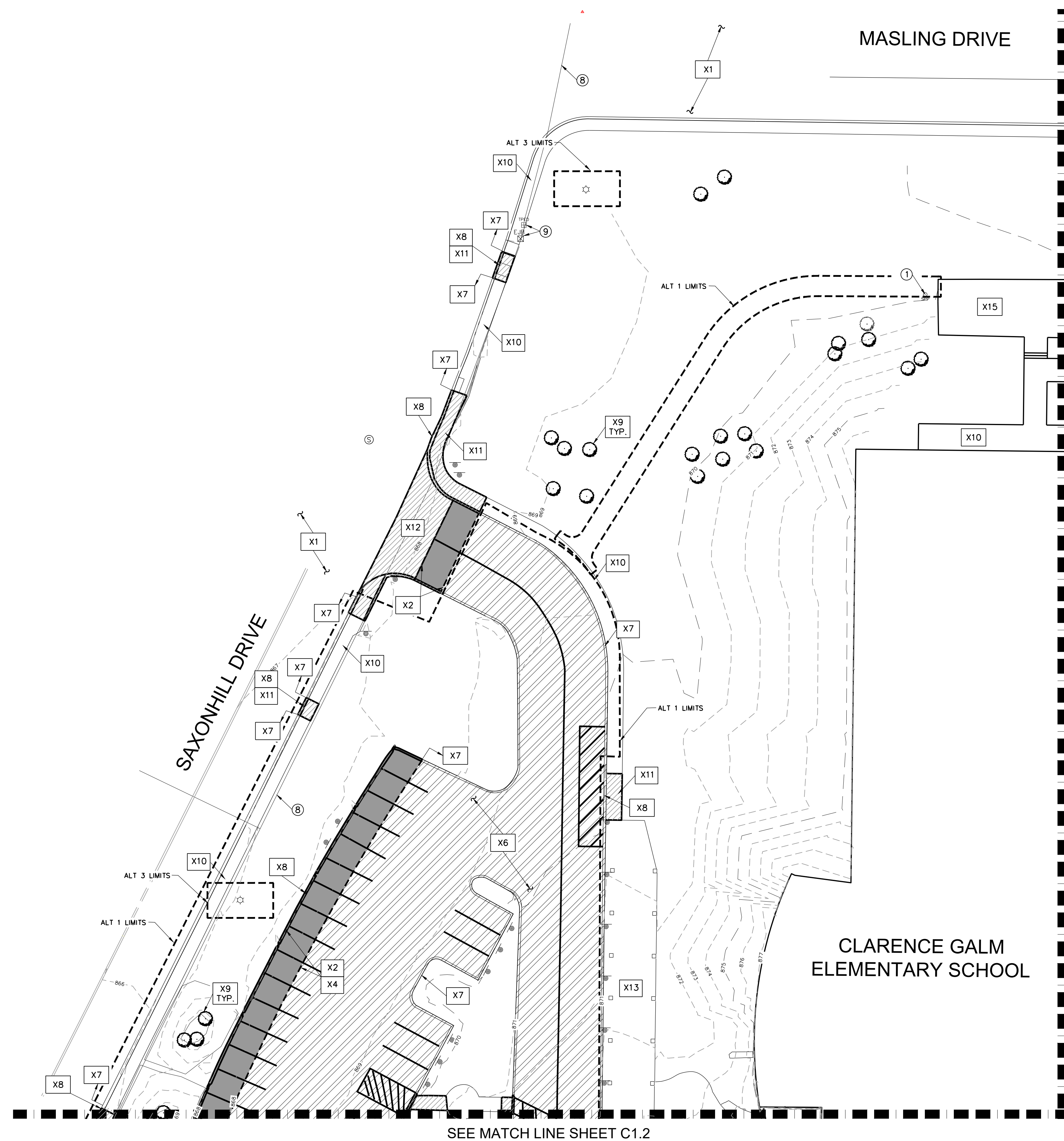
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
DEMOLITION PLAN NE

SHEET NO.

C1.0

JANUARY 31, 2024

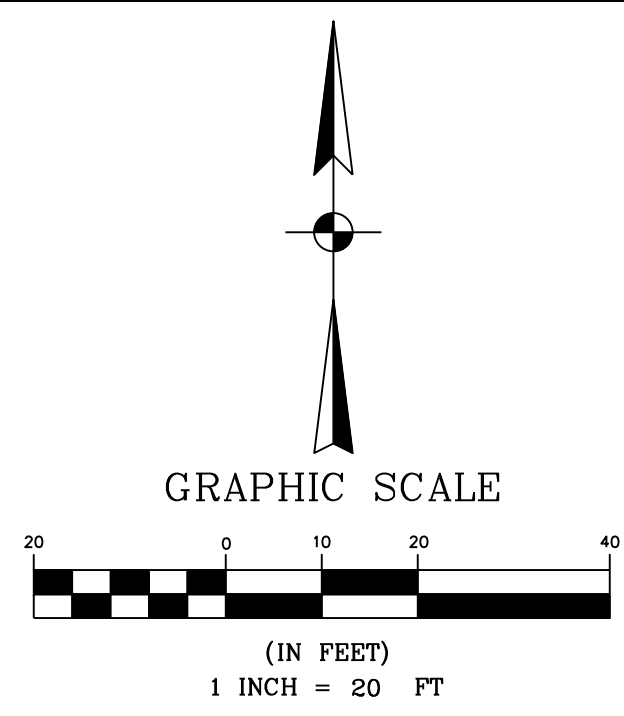
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SEE MATCH LINE SHEET C1.2

SEE MATCH LINE SHEET C1.0

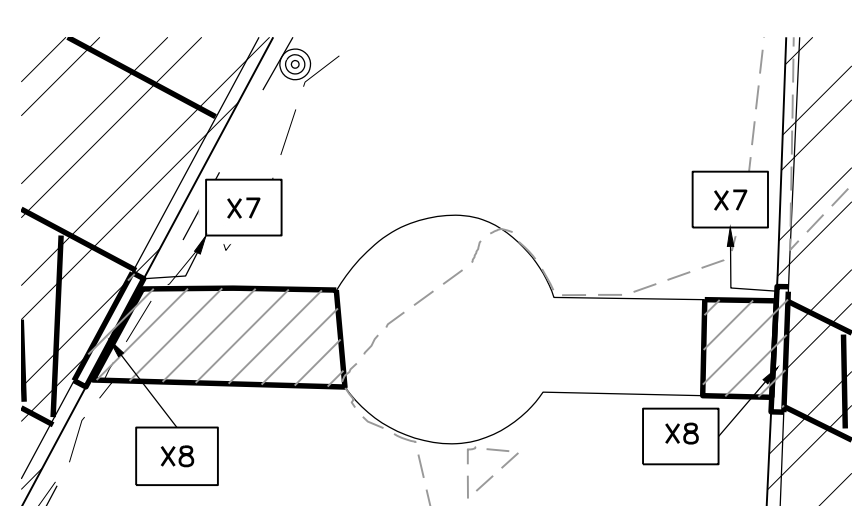
SUE NOTE:
EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.



EXISTING SURVEY AND DEMOLITION KEYED NOTES:

- X1 EXISTING ASPHALT PAVEMENT TO REMAIN.
- X2 CONTRACTOR TO REMOVE EXISTING ASPHALT PAVEMENT. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL (2' FROM FACE OF CURB, IF ADJACENT TO CURB). REFER TO THE GRADING PLAN FOR DETAILED LIMITS OF WORK. CONTRACTOR TO STRIPE AND REPLACE OTHER PAVEMENT MARKINGS AFTER REPLACEMENT OF PAVEMENT IS COMPLETE WHERE APPLICABLE.
- X3 CONTRACTOR TO REMOVE BASE MATERIAL TO PREPARE AREA FOR CONCRETE PAVEMENT.
- X4 CONTRACTOR TO REPAIR BASE AFTER REMOVAL OF TREE ROOTS. ALL TREE ROOTS TO BE CLEANLY CUT AND PAINTED ON ENDS.
- X5 CONTRACTOR TO MILL AND OVERLAY ASPHALT PAVEMENT.
- X6 CONTRACTOR TO SEAL COAT THIS AREA. EXISTING ASPHALT PAVEMENT TO REMAIN.
- X7 EXISTING CURB TO REMAIN.
- X8 CONTRACTOR TO DEMOLISH EXISTING CURB. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL.
- X9 EXISTING TREES TO REMAIN (ALL).
- X10 EXISTING SIDEWALK TO REMAIN.
- X11 CONTRACTOR TO REMOVE EXISTING SIDEWALK. CONTRACTOR TO SAW CUT 2" DEPTH PRIOR TO REMOVAL, AT NEXT NEAREST JOINT.
- X12 CONTRACTOR TO REMOVE EXISTING CONCRETE DRIVEWAY.
- X13 EXISTING COVERED WALKWAY TO REMAIN.
- X14 CONTRACTOR TO CHIP OUT TOPPING SLAB FRO NEW TOPPING SLAB IN THIS AREA.
- X15 EXISTING BICYCLE RACK PAD.
- X16 EXISTING FENCE TO REMAIN.
- X17 EXISTING CONCRETE DUMPSTER PAD TO REMAIN.

- ① EXISTING OVERHEAD ELECTRIC, TELEPHONE AND CATV TO REMAIN.
- ② CONTRACTOR TO ADJUST MANHOLE TOP OF GREASE TRAP.
- ③ CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLE.
- ④ EXISTING SANITARY SEWER SERVICE.
- ⑤ EXISTING GAS SERVICE AND YARD. COORDINATE WITH CPS ENERGY FOR REPLACEMENT.
- ⑥ EXISTING GAS VALVES.
- ⑦ EXISTING UNDERGROUND ELECTRIC.
- ⑧ EXISTING UNDERGROUND TELEPHONE.
- ⑨ EXISTING TRANSFORMER AND TELEPHONE PEDESTAL.



GENERAL NOTES:

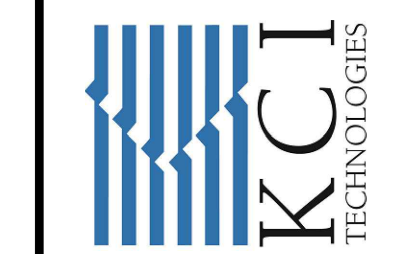
1. SEE COORDINATE (SERIES C2.0 SHEETS), AND GRADING (SERIES C3.0 SHEETS) PLANS FOR DIMENSIONS AND ELEVATIONS.
2. SEE SHEETS C3.4 FOR CIVIL DETAILS.
3. SEE SHEETS C4.0 SERIES FOR SWPPP, TEMPORARY BMP DETAILS AND TREE PROTECTION DETAILS.
4. THERE ARE EXISTING WATER SERVICES, SANITARY SEWER SERVICES, GAS, FIRE LINES, AND POTENTIALLY OTHER UTILITIES IN THE AREA. THE LOCATIONS OF THESE LINES HAVE NOT BEEN DETERMINED TO A DEGREE OF CERTAINTY, AS THERE ARE LIMITED RECORDS FOR THE EXISTING SITE. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY. ALL UTILITIES ENCOUNTERED SHALL BE DOCUMENTED ON A PLAN SET TO BE RETURNED TO THE OWNER AND ENGINEER.
5. CONTRACTOR TO CALL FOR UTILITY LOCATES PRIOR TO THE START OF CONSTRUCTION.
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7. CONTRACTOR SHALL INSTALL ALL SWPPP MEASURES PRIOR TO STARTING ANY CLEARING OR DEMOLITION ON THE SITE.
8. CONTRACTOR SHALL HAVE ALL PERMITS PRIOR TO BEGINNING WORK IN THE RESPECTIVE AREAS OF THE PROJECT, ON-SITE OR WITHIN THE ROW.
9. CONTRACTOR SHALL ESTABLISH THE TRAFFIC CONTROL DEVICES AND COORDINATE SCHEDULES PRIOR TO BEGINNING ANY WORKING WITHIN THE ROW. ALL PERMITS SHALL BE CURRENT WHEN WORKING WITHIN THE ROW.
10. A PRE-CONSTRUCTION MEETING SHALL BE HELD BEFORE WORK BEGINS ON THE PROJECT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING CONDITIONS OF THE SITE AND SURROUNDING AREAS PRIOR TO THE START OF CONSTRUCTION WITH PHOTOGRAPHS.

LEGEND:

- DEMO ASPHALT PAVEMENT
- DEMO CONCRETE PAVEMENT AND SIDEWALK
- MILL AND OVERLAY ASPHALT PAVEMENT
- SEAL COAT EXISTING ASPHALT PAVEMENT.
- ALTERNATE LIMITS

DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

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REGISTRATION #10573 / #101943-65



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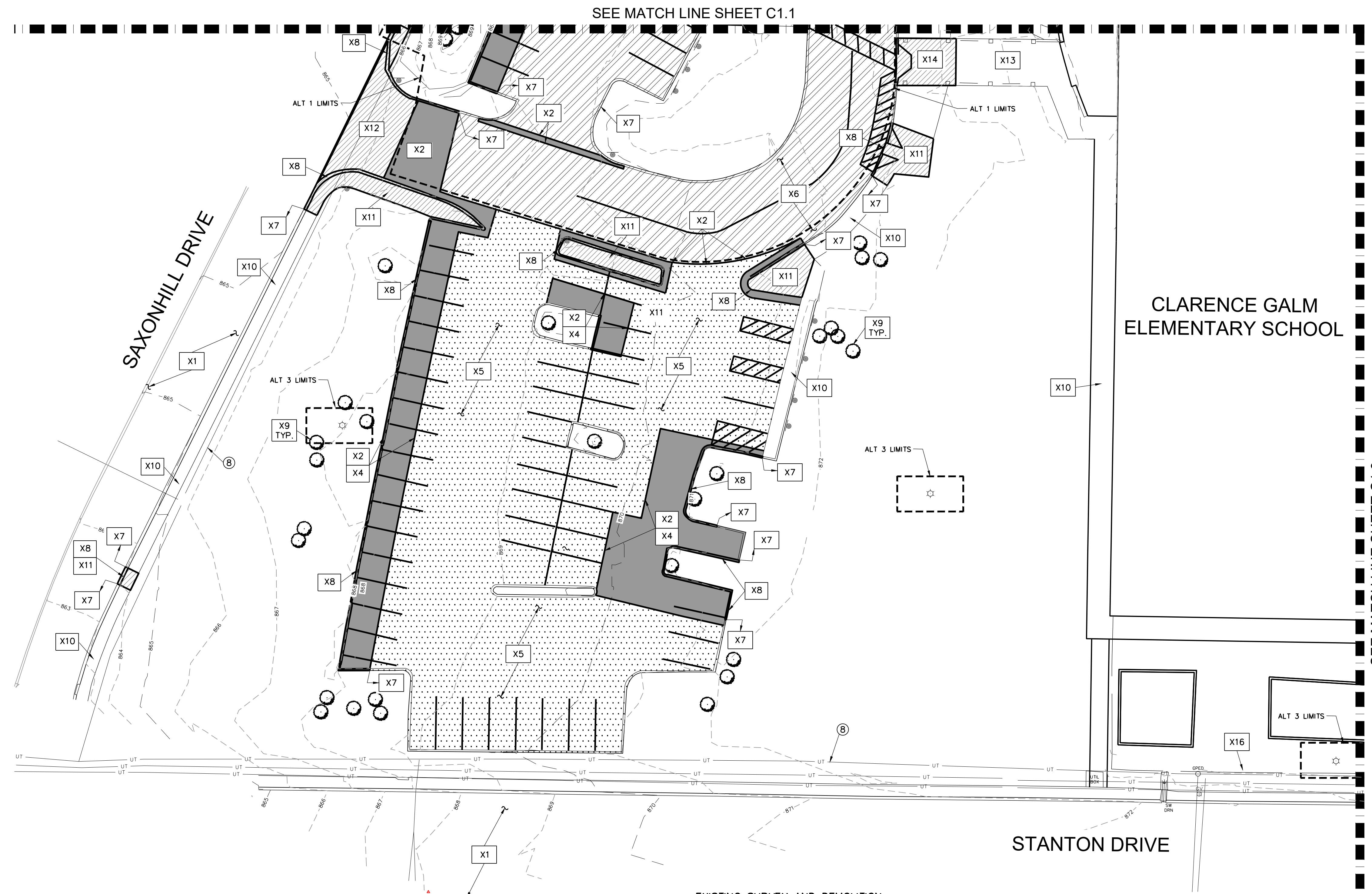
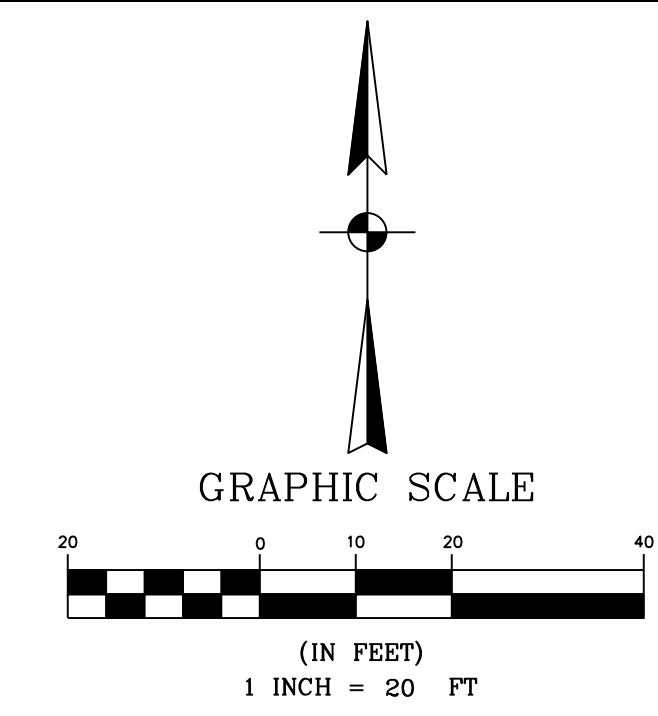


REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
DEMOLITION PLAN NW

SHEET NO.
C1.1
JANUARY 31, 2024

SUE NOTE:
 EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.



SEE MATCH LINE SHEET C1.1

**CLARENCE GALM
 ELEMENTARY SCHOOL**

SEE MATCH LINE SHEET C1.3

GENERAL NOTES:

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- MILL AND OVERLAY ASPHALT PAVEMENT
- SEAL COAT EXISTING ASPHALT PAVEMENT.
- ALTERNATE LIMITS

**EXISTING SURVEY AND DEMOLITION
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- EXISTING TRANSFORMER AND TELEPHONE PEDESTAL.

DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
 PAUL A. MATHEIS, P.E.
 NO. #103075
 ON: JANUARY 31, 2024 DATE



REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 DEMOLITION PLAN SW

SHEET NO.

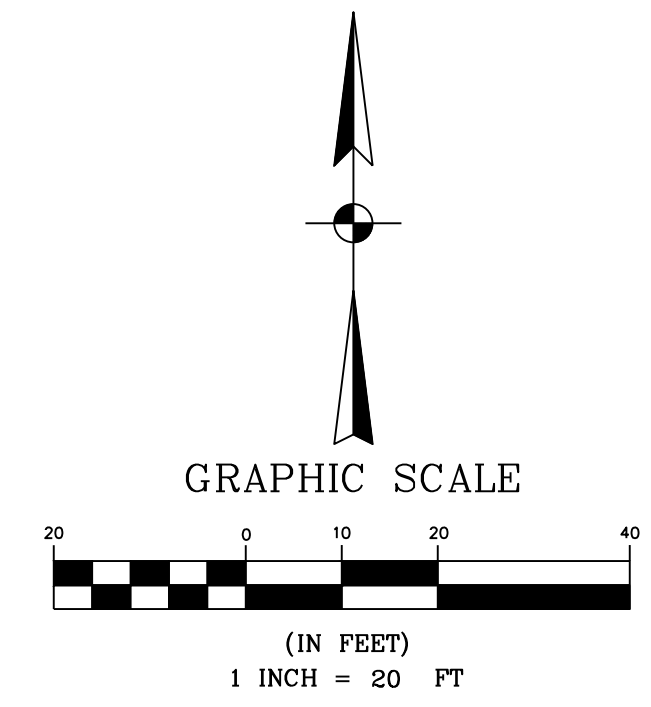
C1.2

JANUARY 31, 2024

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**CLARENCE GALM
ELEMENTARY SCHOOL**

SEE MATCH LINE SHEET C1.0

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- X17 EXISTING CONCRETE DUMPSTER PAD TO REMAIN.
- X18 CONTRACTOR TO PAINT EXISTING POLES YELLOW.
- X19 CONTRACTOR TO MASK/PROTECT PAVEMENT MURAL (US MAP)

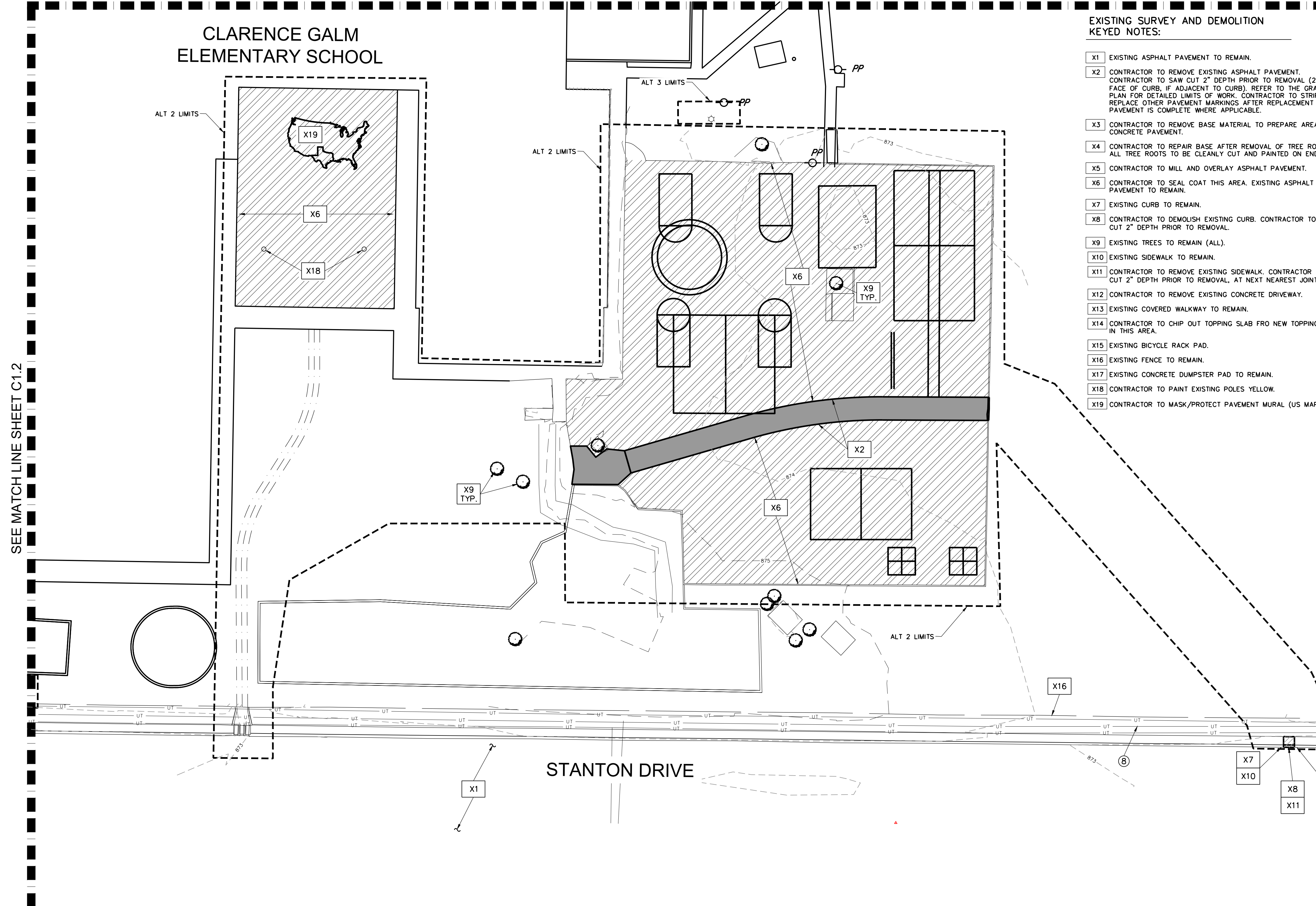
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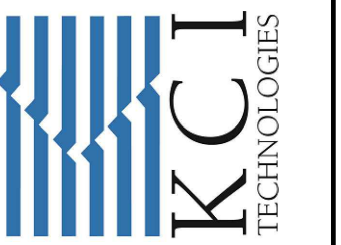
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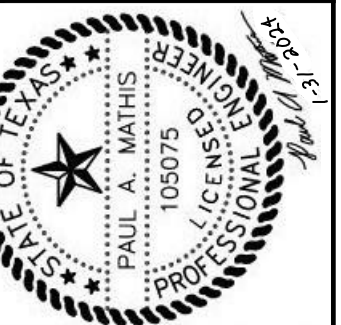


DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

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REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 DEMOLITION PLAN SE

SHEET NO.
C1.3
 JANUARY 31, 2024

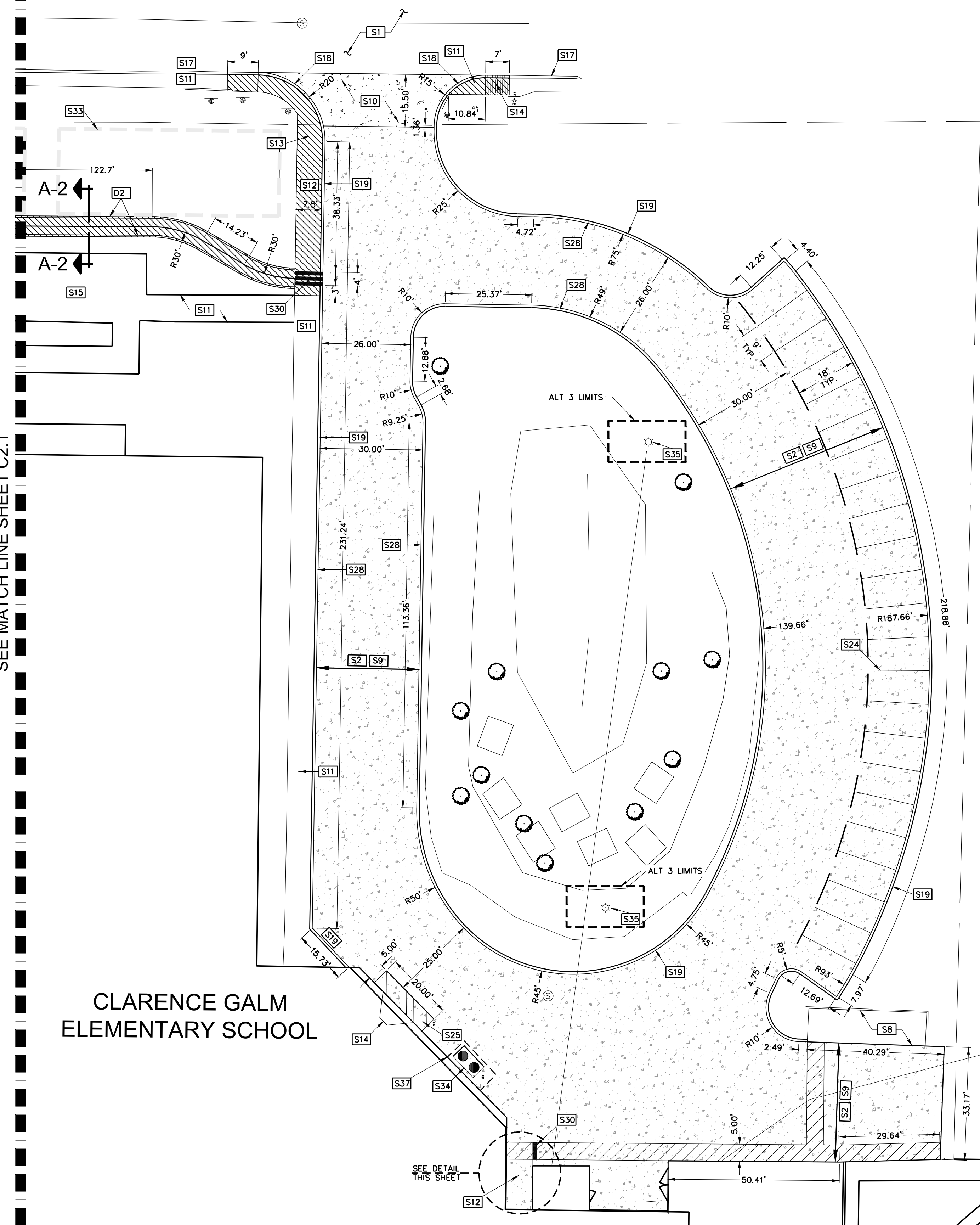
L:\Projects\Proj_2021\0678600_Paving_Improvements at Clarence Galm ES\Drawings\0678600 C1.3 DEMOLITION PLAN SE.dwg Tue, Jan 20/24 11:53:38am enj@kci.com

MASLING DRIVE

SEE MATCH LINE SHEET C2.1

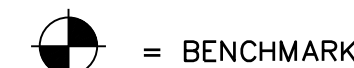
CLARENCE GALM
ELEMENTARY SCHOOL

SEE MATCH LINE SHEET C2.3



GENERAL NOTE:

1. PROTECT EXISTING SIGNS OR REPLACE LOCATIONS.



GRADING NOTE:

1. ESTABLISHMENT OF CONTROL FOR SITE GRADING AND UTILITY WORK SHALL BE ACCOMPLISHED USING A MINIMUM OF TWO BENCHMARKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE CONTROL BEFORE PROCEEDING.

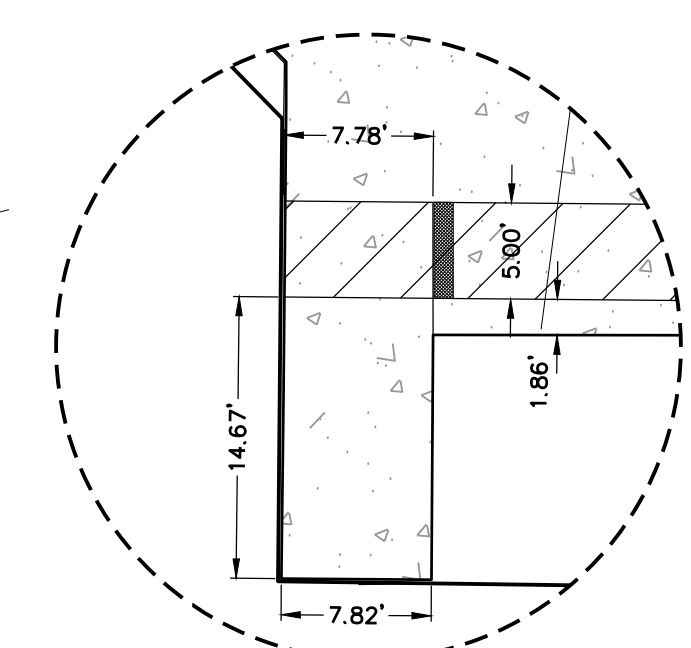
LEGEND:

- XXX --- EXISTING CONTOUR
- XXX --- PROPOSED CONTOUR
- --- BREAKLINE
- --- SWALE
- --- ALTERNATE LIMITS
- --- NEW CONCRETE PAVEMENT
- --- MILL AND OVERLAY ASPHALT PAVEMENT
- --- FULL DEPTH ASPHALT RECONSTRUCTION
- --- SEAL COAT PARKING/DRIVE LANE ASPHALT
- --- NEW CONCRETE SIDEWALKS/FLUMES

LIGHT FIXTURE SCHEDULE - ALTERNATE #4

P	LSI	SMA LED 28L ACR 3 UNV DIM 40 BRZ PM	1-HEAD POLE MOUNTED AREA LIGHT	POLE	230W LED	UNV	1.2
P2	LSI	SMA LED 28L ACR 3 UNV DIM 40 BRZ PM	2-HEAD POLE MOUNTED FLOOD LIGHT	POLE	480W LED	UNV	1.2

- NOTES:
1. SELECTION TO BE APPROVED BY ENGINEER PRIOR TO PURCHASE COORDINATE ALL FINISHES AND COLORS WITH ENGINEER.
 2. MOUNT FIXTURES ON EXISTING POLES. PROVIDE ALL MOUNTING ACCESSORIES AS NEEDED. PROVIDE FIXTURE HEADS IN ORIENTATION INDICATED ON PLAN - MATCH EXISTING ORIENTATION.



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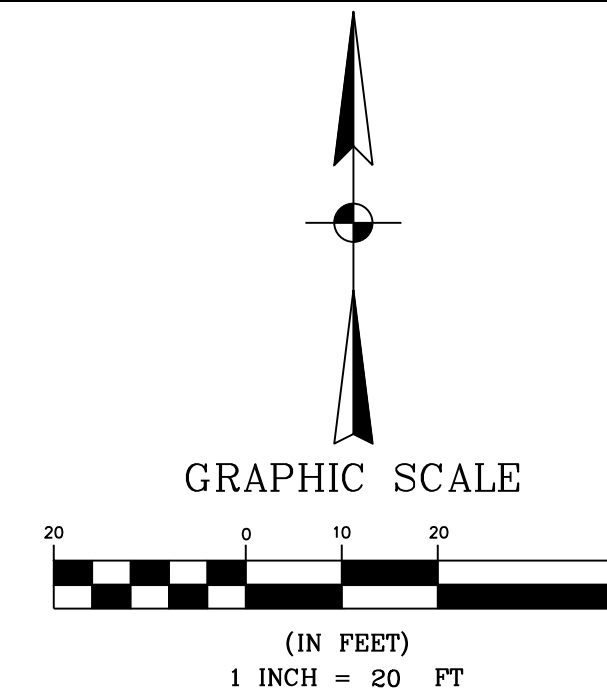
SITE DIMENSION AND GRADING NOTES:

- S1 EXISTING ASPHALT PAVEMENT TO REMAIN.
- S2 EXISTING ASPHALT PAVEMENT TO BE REMOVED.
- S3 EXISTING ASPHALT PAVEMENT TO BE RECONSTRUCTED (FULL DEPTH).
- S4 EXISTING ASPHALT PAVEMENT TO BE MILLED AND OVERLAID.
- S5 EXISTING ASPHALT PAVEMENT TO BE SEAL COATED.
- S6 PROPOSED CONCRETE SWALE.
- S7 PROPOSED 2' WIDE GUTTER MONOLITHIC TO CURB.
- S8 EXISTING CONCRETE PAVEMENT OR PAD TO REMAIN.
- S9 PROPOSED CONCRETE PAVEMENT.
- S10 EXISTING DRIVEWAY TO BE RECONSTRUCTED (CONCRETE).
- S11 EXISTING CONCRETE SIDEWALK TO REMAIN.
- S12 PROPOSED CONCRETE SIDEWALK.
- S13 PROPOSED ADA CONCRETE RAMP. IF RAMP IS ADJACENT TO THE ROAD OR DRIVE LANE, CONCRETE CURB SHALL TRANSITION FROM FULL TO FLUSH CURB MATCHING RAMP SLOPE.
- S14 EXISTING RAMP TO REMAIN.
- S15 SLOPED WALK.
- S16 EXISTING BICYCLE RACK PAD.
- S17 EXISTING CONCRETE CURB TO REMAIN.
- S18 PROPOSED FLUSH CURB AT LANDINGS.
- S19 PROPOSED FULL STANDARD CURB.
- S20 EXISTING COVERED WALKWAY TO REMAIN.
- S21 NEW TOPPING SLAB ON EXISTING FOUNDATION TO REMAIN.
- S22 ADA ACCESSIBLE PARKING.
- S23 ADA VAN ACCESSIBLE PARKING.
- S24 PROPOSED 4" WIDE WHITE STRIPING.
- S25 PROPOSED 2' SPACING ON 4" WIDE WHITE STRIPING AT 45° ANGLE.
- S26 PROPOSED WHEELSTOPS.
- S27 PROPOSED ARROW MARKINGS.
- S28 PROPOSED 4" RED FIRE LANE STRIPING WITH WHITE LETTER STENCILING - CONTRACTOR TO COORDINATE WITH FIRE MARSHAL ON SIGN PLACEMENT.
- S29 CURB OPENING FOR DRAIN.
- S30 1' WIDE SIDEWALK DRAIN. QUANTITY AS SHOWN. FOR THOSE AT EXISTING ROADWAY, CUT AND REPLACE AT LEAST 1 PANEL OF SIDEWALK AND CURB.
- S31 EXISTING US MAP TO BE PROTECTED
- S32 EXISTING STRIPING TO BE RESTRIPE AFTER SEAL COAT OR REPAIRS TO ASPHALT/INSTALLATION OF CONCRETE SWALE.
- S33 PROPOSED PORTABLE BUILDING (25' x 65')
- S34 PROPOSED NEW GREASE TRAP
- S35 EXISTING POLE MOUNTED LIGHT FIXTURES SHALL BE REPLACED WITH NEW P & P2 TYPE FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFO. EXISTING WIRING AND POLE TO REMAIN IN PLACE FOR REUSE. EXTEND EXISTING WIRING AS NEEDED. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS NEEDED TO MOUNT TO EXISTING POLE. PROVIDE QUANTITY OF FIXTURE HEADS SHOWN AND ORIENT AS INDICATED ON PLAN.
- S36 EXISTING POLE MOUNTED LIGHT FIXTURES SHALL BE REPLACED WITH NEW P2 TYPE FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFO. EXISTING WIRING AND POLE TO REMAIN IN PLACE FOR REUSE. EXTEND EXISTING WIRING AS NEEDED. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS NEEDED TO MOUNT TO EXISTING POLE. PROVIDE QUANTITY OF FIXTURE HEADS SHOWN AND ORIENT AS INDICATED ON PLAN.
- S37 PROPOSED EXPANSION JOINTS

DRAINAGE KEYED NOTES:

- D1 PROPOSED EARTHEN TRAPEZOIDAL CHANNEL (SEE SHEET C3.4 FOR SECTION & STRUCTURAL DETAILS.)
- D2 PROPOSED CONCRETE RECTANGULAR CHANNEL (SEE SHEET C3.4 FOR SECTION & STRUCTURAL DETAILS.)
- D3 PROPOSED DRAINAGE TRANSITION (SEE SHEET C3.4 FOR SECTION & STRUCTURAL DETAILS.)
- D4 PROPOSED EARTHEN SWALE (TRIANGULAR SECTION) (SEE SHEET C3.4 FOR SECTION & STRUCTURAL DETAILS.)
- D5 CONTRACTOR TO CLEAN OUT CHANNEL. REMOVE ALL SEDIMENT AND VEGETATION FROM WITHIN THE CONCRETE CHANNEL AND FENCE LINE.

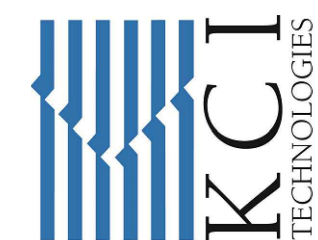
NOTE:
CONSTRUCTION OF CONTROL JOINTS SHOULD OCCUR AT 10' SPACING IN CURBS AND EVERY 40' MATCHING 4' WIDTH OF SIDEWALKS. ALL JOINTS TO LINE UP IN SIDEWALKS WITH THOSE IN THE CURB WHERE POSSIBLE. EXPANSION JOINTS TO BE PROVIDED "EJ-...", 40' INTERVALS FOR CURBS AND NO MORE THAN 40' SPACING ALONG WALKS.



DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.

2805 W. BITTERS ROAD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9899
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REGISTRATION #F-10573 / #101943-65



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
PAUL A. MATHEIS, P.E.
NO. #105075
ON: JANUARY 31, 2024 DATE



DESCRIPTION

REV DATE

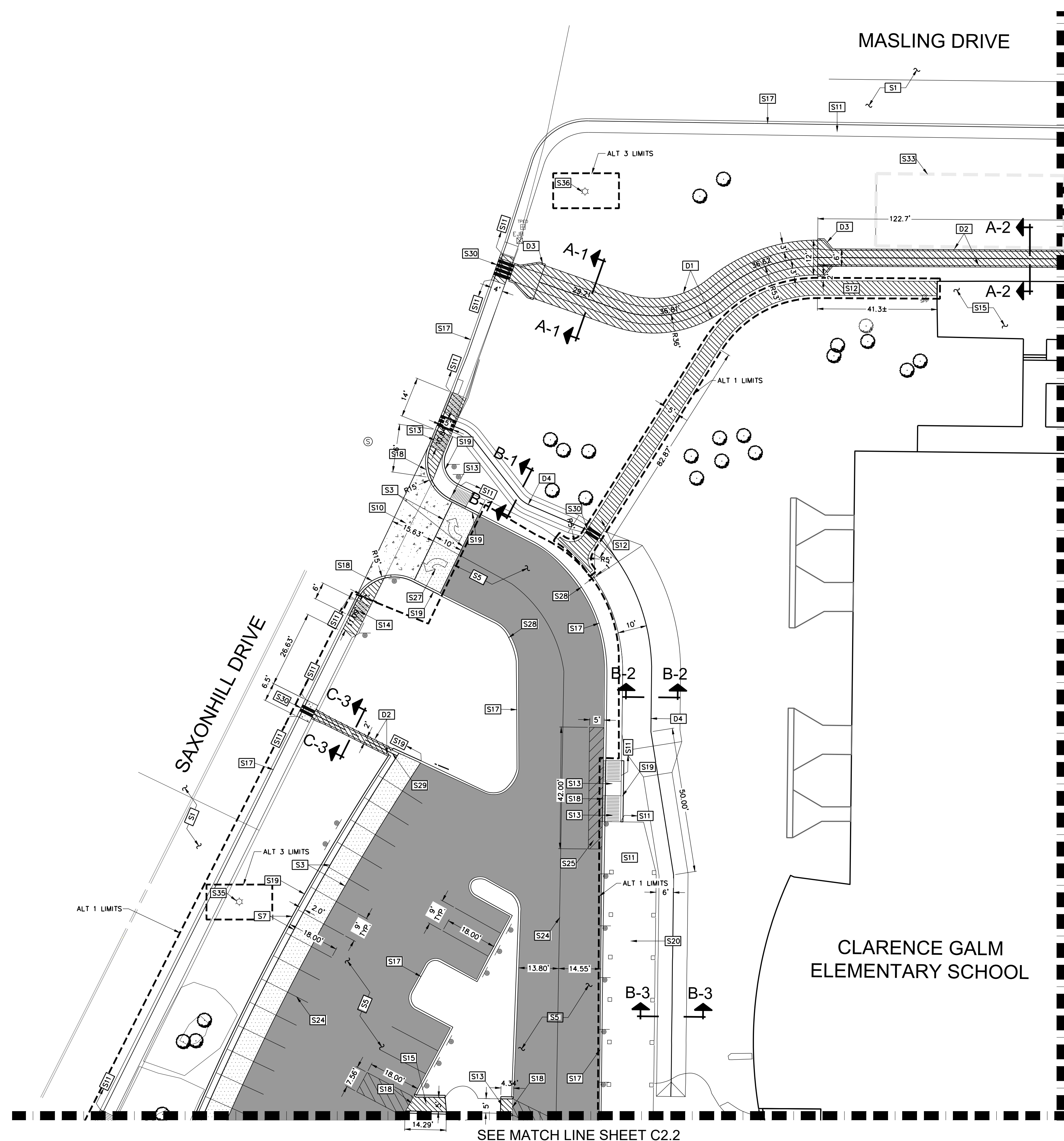
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE
IMPROVEMENTS
DIMENSION PLAN NE

SHEET NO.

C2.0

JANUARY 31, 2024

L:\Projects\Proj_2021\0879600_Paving_Upgrade at Clarence Galm Elementary School.dwg, Thu, Jan 20, 2024 11:53:58am, onpjt.plt



SEE MATCH LINE SHEET C2.2

SEE MATCH LINE SHEET C2.0

GENERAL NOTE:
1. PROTECT EXISTING SIGNS OR REPLACE LOCATIONS.

= BENCHMARK

GRADING NOTE:
1. ESTABLISHMENT OF CONTROL FOR SITE GRADING AND UTILITY WORK SHALL BE ACCOMPLISHED USING A MINIMUM OF TWO BENCHMARKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE CONTROL BEFORE PROCEEDING.

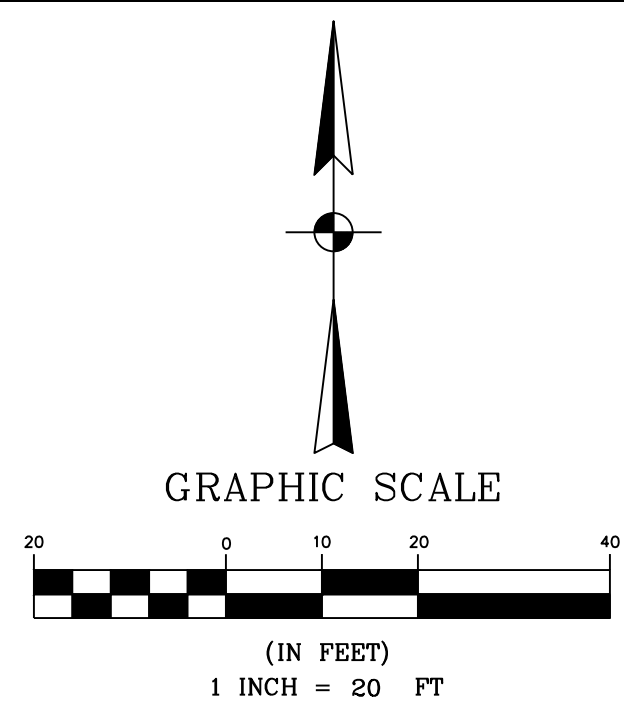
LEGEND:

- XXXX EXISTING CONTOUR
- XXXX PROPOSED CONTOUR
- BREAKLINE
- SWALE
- ALTERNATE LIMITS
- NEW CONCRETE PAVEMENT
- MILL AND OVERLAY ASPHALT PAVEMENT
- FULL DEPTH ASPHALT RECONSTRUCTION
- SEAL COAT PARKING/DRIVE LANE ASPHALT
- NEW CONCRETE SIDEWALKS/FLUMES

LIGHT FIXTURE SCHEDULE - ALTERNATE #4

P	LSI SMA LED 28L ACR 3 UNV DIM 40 BRZ PM	1-HEAD POLE MOUNTED AREA LIGHT	POLE	230W LED	UNV	1.2
P2	LSI SMA LED 28L ACR 3 UNV DIM 40 BRZ PM	2-HEAD POLE MOUNTED FLOOD LIGHT	POLE	460W LED	UNV	1.2

NOTES:
1. SELECTION TO BE APPROVED BY ENGINEER PRIOR TO PURCHASE COORDINATE ALL FINISHES AND COLORS WITH ENGINEER.
2. MOUNT FIXTURES ON EXISTING POLES. PROVIDE ALL MOUNTING ACCESSORIES AS NEEDED. PROVIDE FIXTURE HEADS IN ORIENTATION INDICATED ON PLAN - MATCH EXISTING ORIENTATION.



SUE NOTE:
EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.

SITE DIMENSION AND GRADING NOTES:

- S1** EXISTING ASPHALT PAVEMENT TO REMAIN.
- S2** EXISTING ASPHALT PAVEMENT TO BE REMOVED.
- S3** EXISTING ASPHALT PAVEMENT TO BE RECONSTRUCTED (FULL DEPTH).
- S4** EXISTING ASPHALT PAVEMENT TO BE MILLED AND OVERLAID.
- S5** EXISTING ASPHALT PAVEMENT TO BE SEAL COATED.
- S6** PROPOSED CONCRETE SWALE.
- S7** PROPOSED 2' WIDE GUTTER MONOLITHIC TO CURB.
- S8** EXISTING CONCRETE PAVEMENT OR PAD TO REMAIN.
- S9** PROPOSED CONCRETE PAVEMENT.
- S10** EXISTING DRIVEWAY TO BE CONSTRUCTED (CONCRETE).
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- S12** PROPOSED CONCRETE SIDEWALK.
- S13** PROPOSED ADA CONCRETE RAMP. IF RAMP IS ADJACENT TO THE ROAD OR DRIVE LANE, CONCRETE CURB SHALL TRANSITION FROM FULL TO FLUSH CURB MATCHING RAMP SLOPE.
- S14** EXISTING RAMP TO REMAIN.
- S15** SLOPED WALK.
- S16** EXISTING BICYCLE RACK PAD.
- S17** EXISTING CONCRETE CURB TO REMAIN.
- S18** PROPOSED FLUSH CURB AT LANDINGS.
- S19** PROPOSED FULL STANDARD CURB.
- S20** EXISTING COVERED WALKWAY TO REMAIN.
- S21** NEW TOPPING SLAB ON EXISTING FOUNDATION TO REMAIN.
- S22** ADA ACCESSIBLE PARKING.
- S23** ADA VAN ACCESSIBLE PARKING.
- S24** PROPOSED 4" WIDE WHITE STRIPING.
- S25** PROPOSED 2' SPACING ON 4" WIDE WHITE STRIPING AT 45° ANGLE.
- S26** PROPOSED WHEELSTOPS.
- S27** PROPOSED ARROW MARKINGS.
- S28** PROPOSED 4" RED FIRE LANE STRIPING WITH WHITE LETTER STENCILING - CONTRACTOR TO COORDINATE WITH FIRE MARSHAL ON SIGN PLACEMENT.
- S29** CURB OPENING FOR DRAIN.
- S30** 1' WIDE SIDEWALK DRAIN. QUANTITY AS SHOWN. FOR THOSE AT EXISTING ROADWAY, CUT AND REPLACE AT LEAST 1 PANEL OF SIDEWALK AND CURB.
- S31** EXISTING US MAP TO BE PROTECTED
- S32** EXISTING STRIPING TO BE RESTRIPTED AFTER SEAL COAT OR REPAIRS TO ASPHALT/INSTALLATION OF CONCRETE SWALE.
- S33** PROPOSED PORTABLE BUILDING (25' x 65')
- S34** PROPOSED NEW GREASE TRAP
- S35** EXISTING POLE MOUNTED LIGHT FIXTURES SHALL BE REPLACED WITH NEW P & P2 TYPE FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFO. EXISTING WIRING AND POLE TO REMAIN IN PLACE FOR REUSE. EXTEND EXISTING WIRING AS NEEDED. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES AS NEEDED TO MOUNT TO EXISTING POLE. PROVIDE QUANTITY OF FIXTURE HEADS SHOWN AND ORIENT AS INDICATED ON PLAN.
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NOTE:
CONSTRUCTION OF CONTROL JOINTS SHOULD OCCUR AT 10' SPACING IN CURBS AND EVERY X' MATCHING X' WIDTH OF SIDEWALKS. ALL JOINTS TO LINE UP IN SIDEWALKS WITH THOSE IN THE CURB WHERE POSSIBLE. EXPANSION JOINTS TO BE PROVIDED "EJ----", 40' INTERVALS FOR CURBS AND NO MORE THAN 40' SPACING ALONG WALKS.

DESIGNED BY: PAM
DRAWN BY: ASJ
APPROVED: PAM
JOB NO.: 78E0670600

KCI TECHNOLOGIES, INC.
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REGISTRATION #F-10573 / #101943-65



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
PAUL A. MATHEIS, P.E.
NO. #103075
ON: JANUARY 31, 2024 DATE



REV	DATE	DESCRIPTION

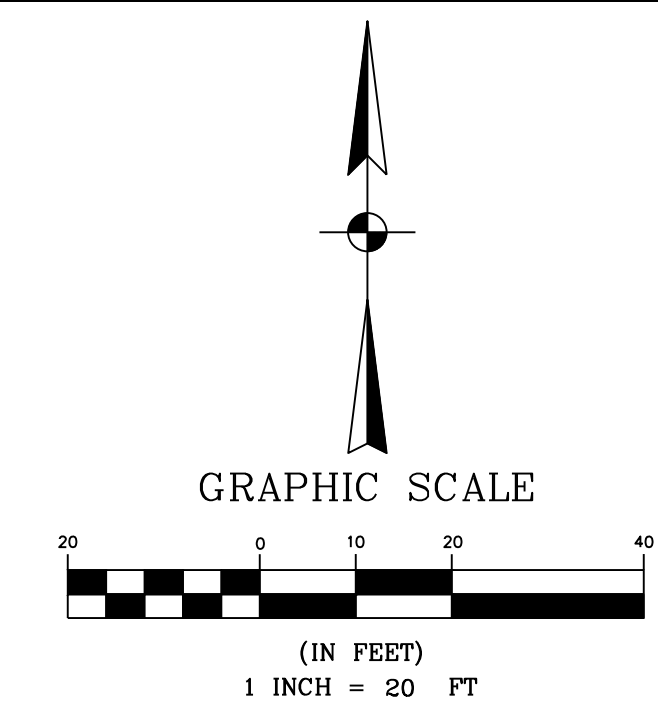
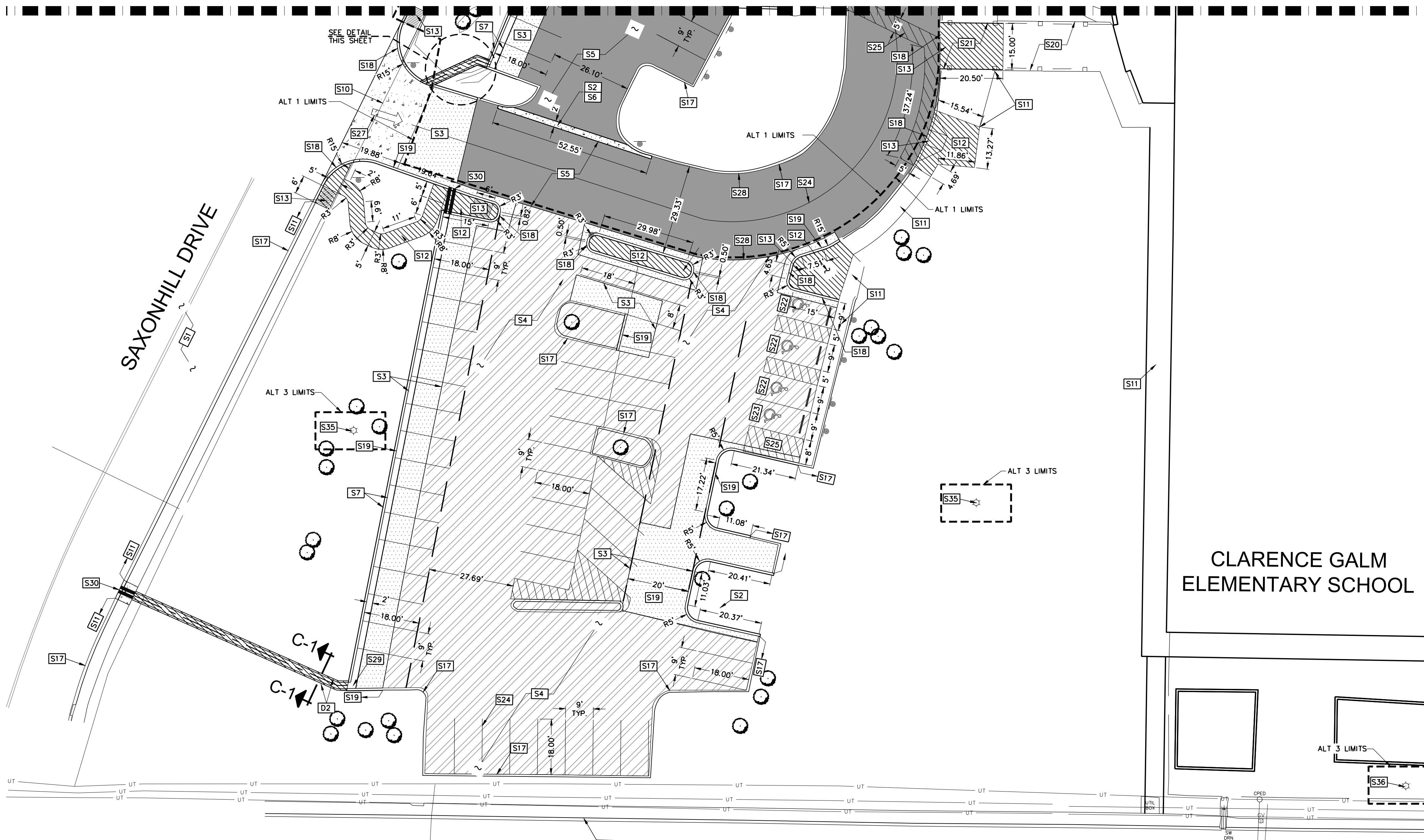
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
DIMENSION PLAN NW

SHEET NO.

C2.1

JANUARY 31, 2024

SEE MATCH LINE SHEET C2.1



SUE NOTE:
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LEGEND:

- XXXX --- EXISTING CONTOUR
- XXXX --- PROPOSED CONTOUR
- BREAKLINE
- SWALE
- ALTERNATE LIMITS
- NEW CONCRETE PAVEMENT
- MILL AND OVERLAY ASPHALT PAVEMENT
- FULL DEPTH ASPHALT RECONSTRUCTION
- SEAL COAT PARKING/DRIVE LANE ASPHALT
- NEW CONCRETE SIDEWALKS/FLUMES

LIGHT FIXTURE SCHEDULE - ALTERNATE #4

P	LSI SMA LED 2BL ACR 3 UNV DIM 40 BRZ PM	1-HEAD POLE MOUNTED AREA LIGHT	POLE	230W LED	UNV	1,2
P2	LSI SMA LED 2BL ACR 3 UNV DIM 40 BRZ PM	2-HEAD POLE MOUNTED FLOOD LIGHT	POLE	480W LED	UNV	1,2

NOTES:
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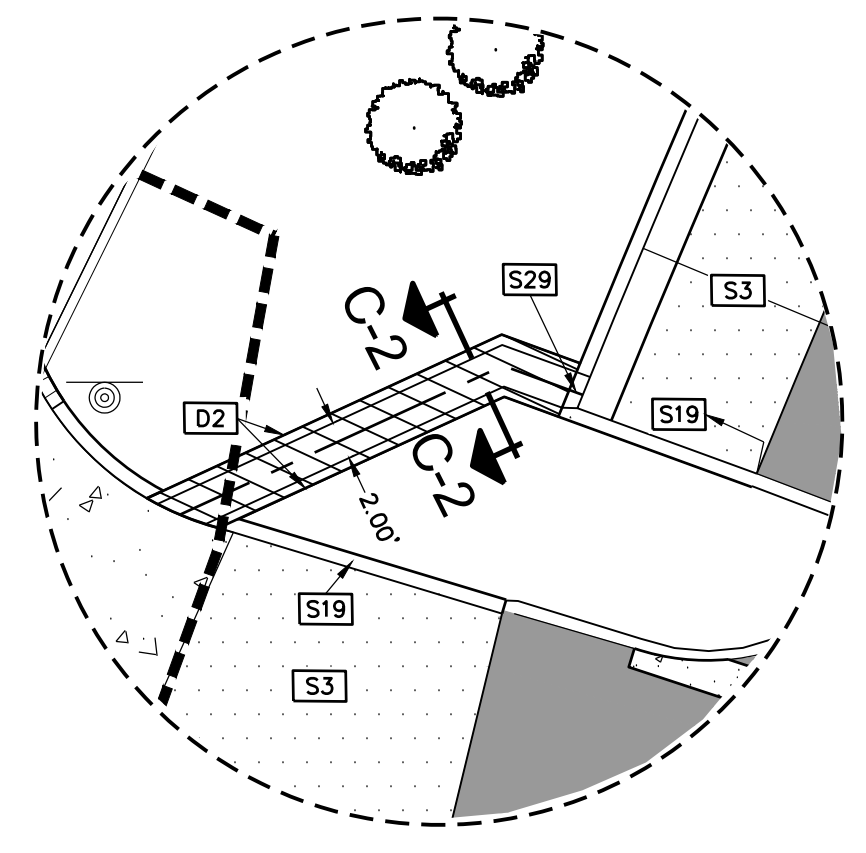
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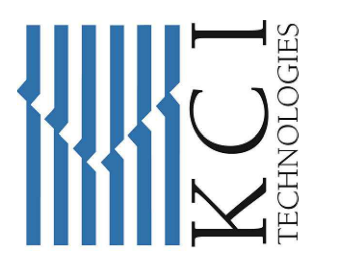
STANTON DRIVE

CLARENCE GALM ELEMENTARY SCHOOL

SEE MATCH LINE SHEET C2.3

DESIGNED BY: PAM
 DRAWN BY: ASJ
 APPROVED: PAM
 JOB NO.: 78E0670600

KCI TECHNOLOGIES, INC.
 2805 W. BITTERS ROAD, SUITE 218
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 REGISTRATION #10573 / #101943-65



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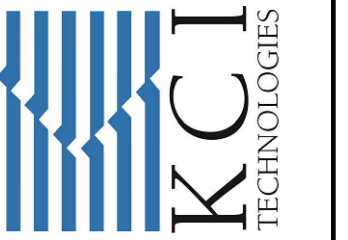
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 DIMENSION PLAN SW

SHEET NO.
C2.2
 JANUARY 31, 2024

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DESIGNED BY: PAM
 DRAWN BY: ASJ
 APPROVED: PAM
 JOB NO.: 78E0670600

KCI TECHNOLOGIES, INC.
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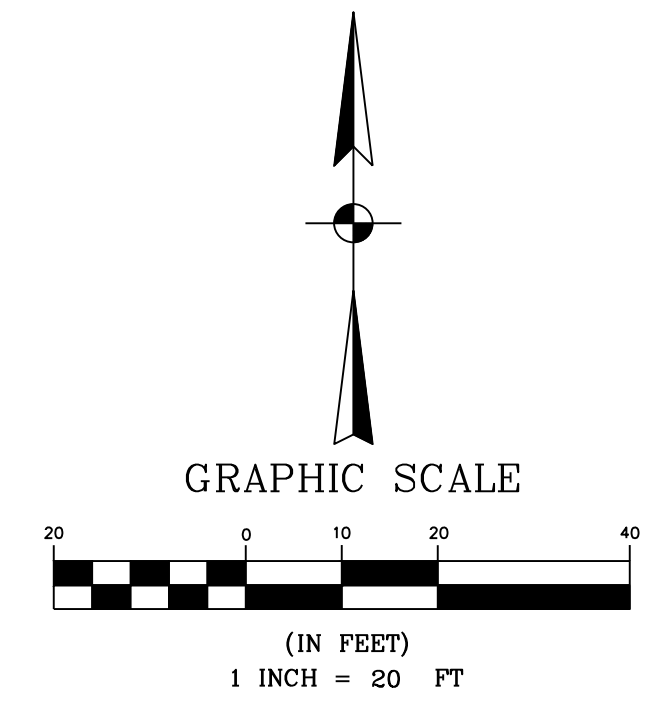
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REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE
 IMPROVEMENTS
 DIMENSION PLAN SE

SHEET NO.
C2.3
 JANUARY 31, 2024



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LEGEND:

---XXX---	EXISTING CONTOUR
-XXX-	PROPOSED CONTOUR
- - - - -	BREAKLINE
- - - - -	SWALE
- - - - -	ALTERNATE LIMITS
[Pattern]	NEW CONCRETE PAVEMENT
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[Pattern]	SEAL COAT PARKING/DRIVE LANE ASPHALT
[Pattern]	NEW CONCRETE SIDEWALKS/FLUMES

LIGHT FIXTURE SCHEDULE - ALTERNATE #4

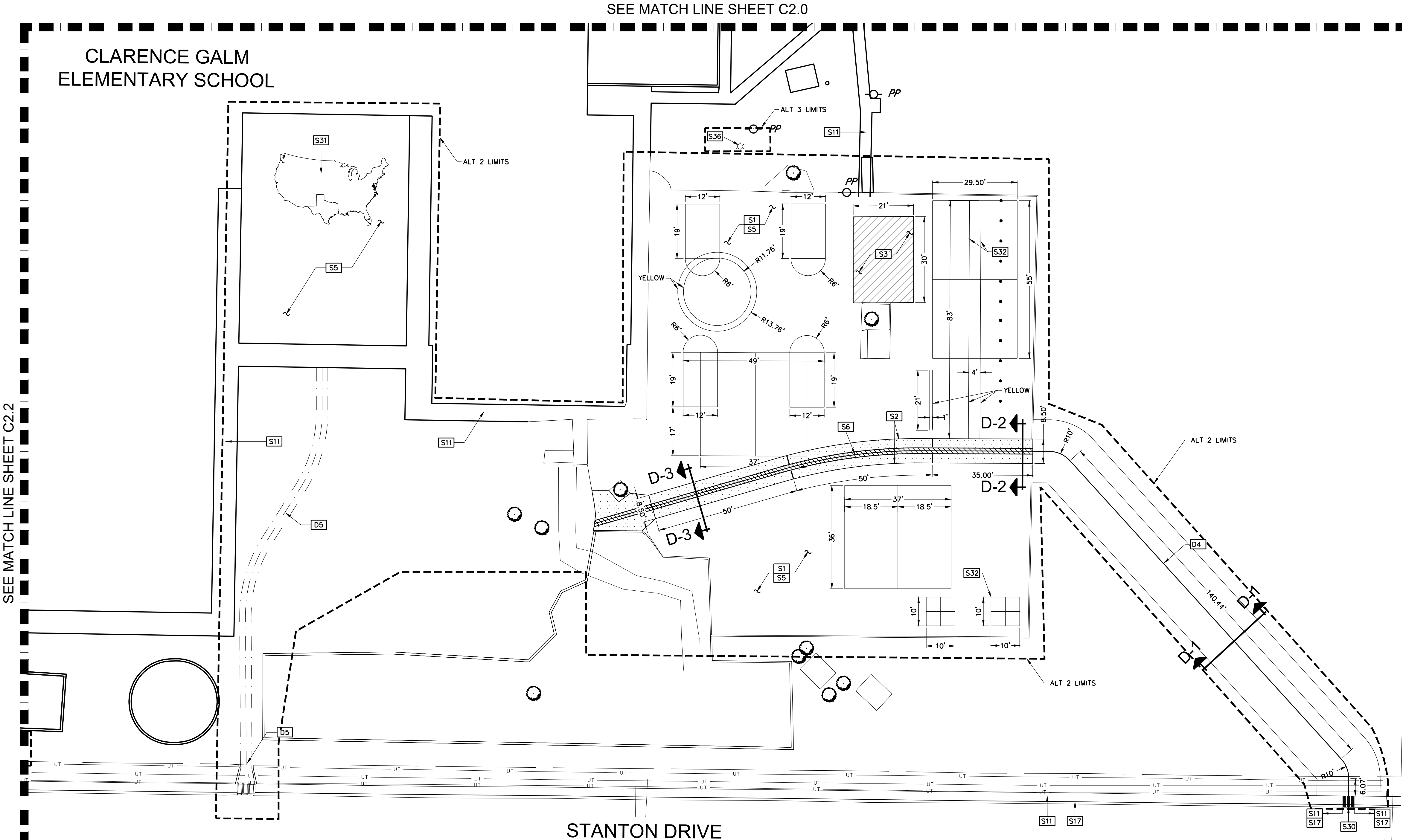
P	LSI	SMA LED 28L ACR 3 UNV DIM 40 BRZ PM	1-HEAD POLE MOUNTED AREA LIGHT	POLE	230W LED	UNV	1.2
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SEE MATCH LINE SHEET C2.2

SEE MATCH LINE SHEET C2.0

L:\Projects\Proj_2021\0670600_Paving_Improvements at Clarence Galm ES\Drawings\0670600_C2.3_DIMENSION PLAN SE.dwg, Tue, Jan/30/24, 11:54:18am, enpaf.dz2024

MASLING DRIVE

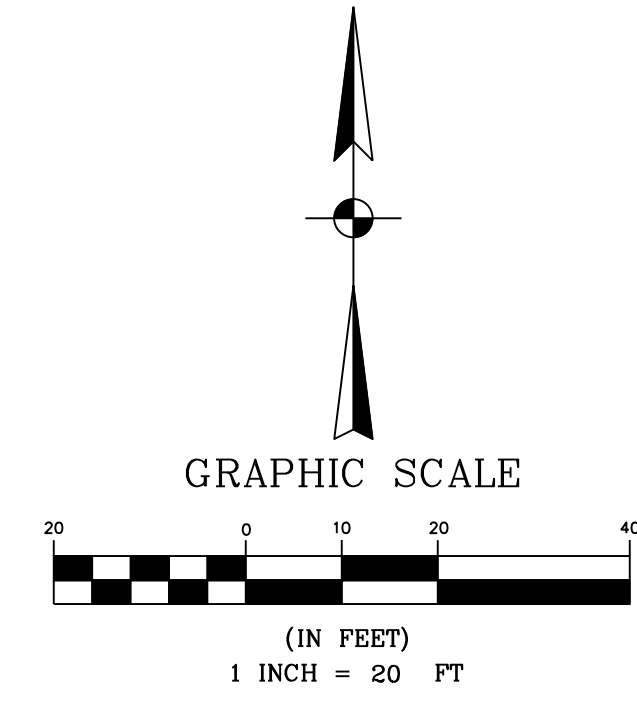
SEE MATCH LINE SHEET C3.1

CLARENCE GALM
ELEMENTARY SCHOOL

SEE MATCH LINE SHEET C3.3

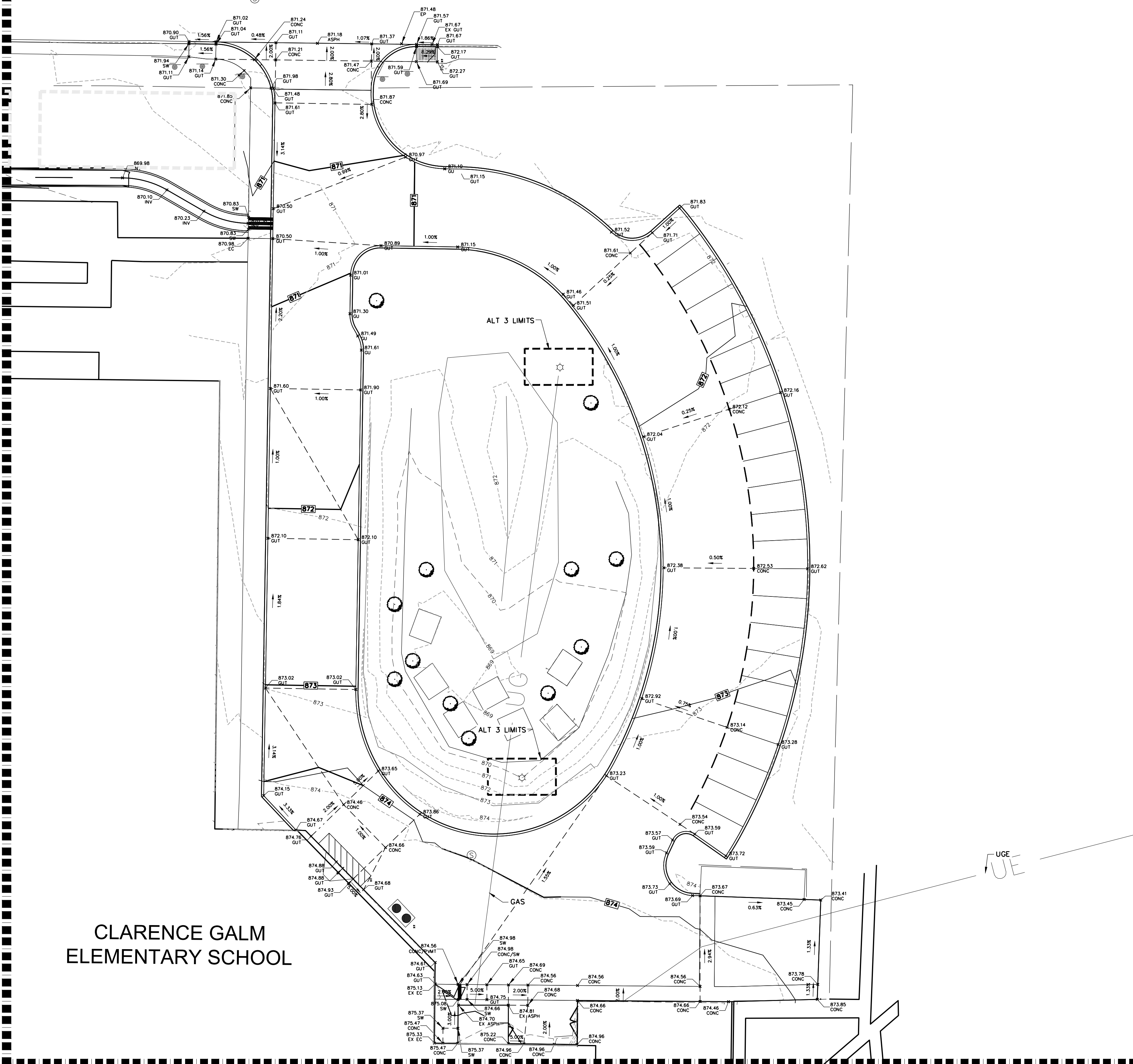
SUE NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.



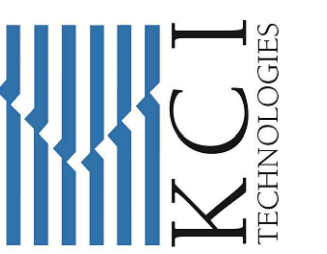
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- XXX--- EXISTING CONTOUR
- XXX--- PROPOSED CONTOUR
- BREAKLINE
- SWALE
- ALTERNATE LIMITS
- ASPH TOP OF ASPHALT
- CONC CONCRETE
- EC EDGE OF CONCRETE
- EX EXISTING
- FG FINISH GROUND
- FL FLOWLINE
- FF FINISH FLOOR
- GUT GUTTER
- INV INVERT
- SW SIDEWALK
- SLPB SLOPE BOTTOM
- SLPT SLOPE TOP
- TC TOP OF CURB



DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
 2808 W. BITTERS ROAD, SUITE 218
 SAN ANTONIO, TEXAS 78248
 PHONE: (210) 641-8699
 FAX: (210) 641-6440
 REGISTRATION #10573 / #101943-65



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
 PAUL A. MATHIS, P.E.
 NO. #103075
 ON: JANUARY 31, 2024
 DATE



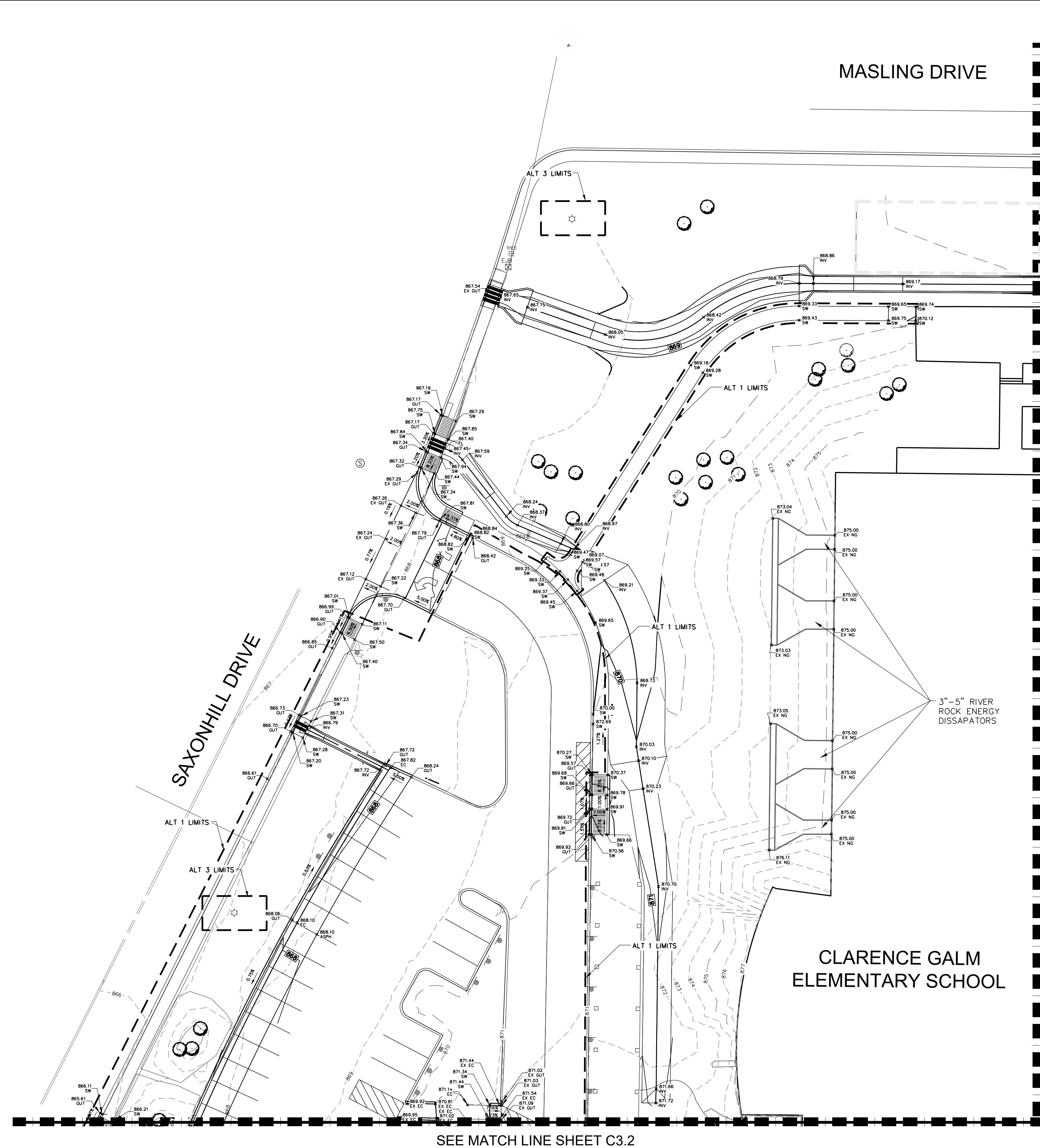
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NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE
 IMPROVEMENTS
 GRADING PLAN NE

SHEET NO.
C3.0
 JANUARY 31, 2024

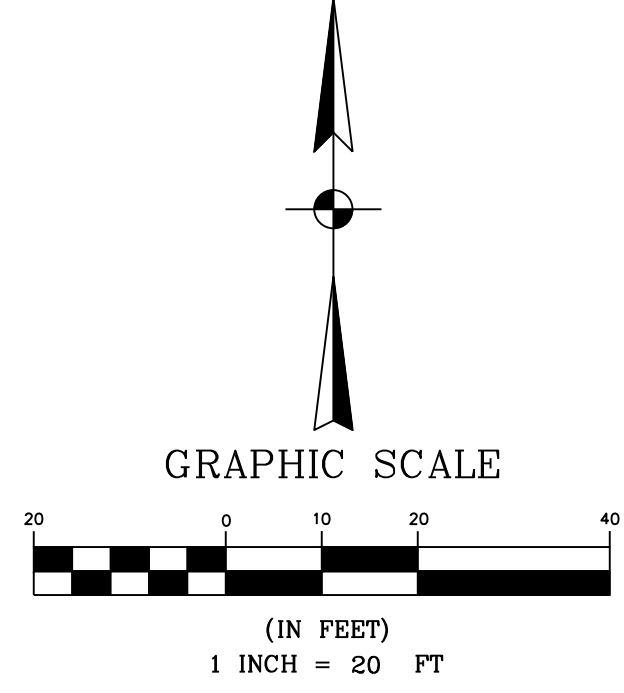
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LEGEND:

- XXX--- EXISTING CONTOUR
- - -XXX- - - PROPOSED CONTOUR
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- - - SWALE
- - - - - ALTERNATE LIMITS
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- GUT GUTTER
- INV INVERT
- SW SIDEWALK
- SLPB SLOPE BOTTOM
- SLPT SLOPE TOP
- TC TOP OF CURB

SEE MATCH LINE SHEET C3.0

SEE MATCH LINE SHEET C3.2

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DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
 2808 W. BITTERS ROAD, SUITE 218
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 NO. #103075
 ON: JANUARY 31, 2024
 DATE



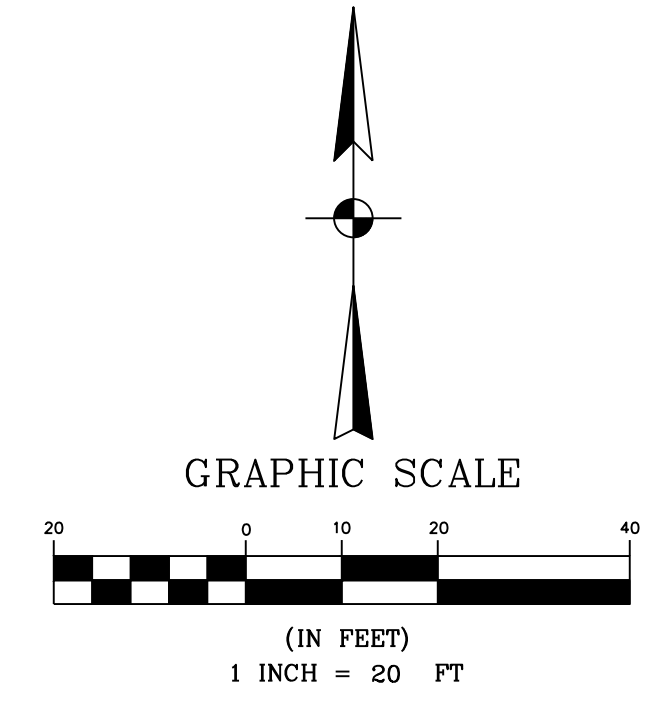
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NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 GRADING PLAN NW

SHEET NO.
C3.1
 JANUARY 31, 2024

SUE NOTE:

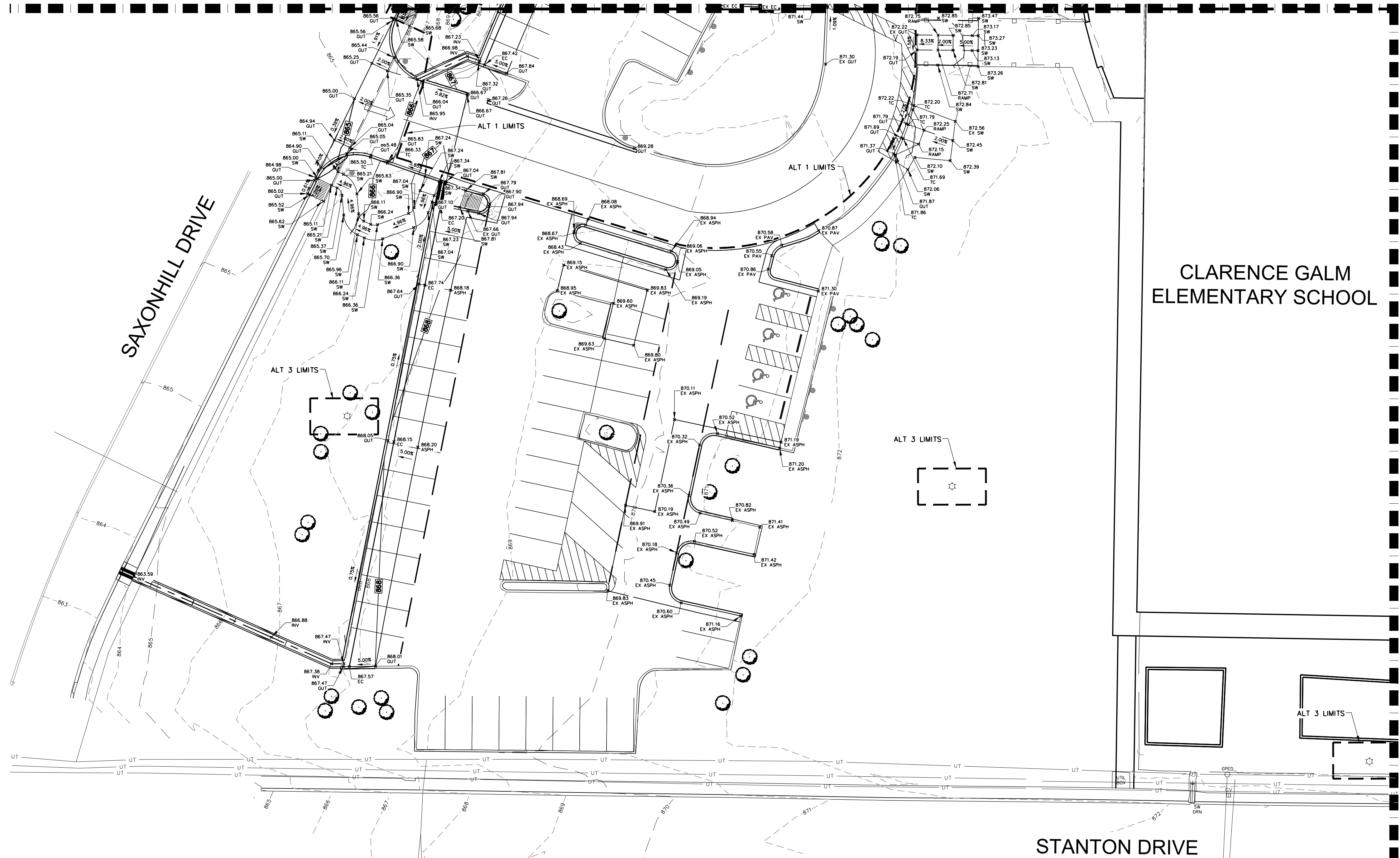
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LEGEND:

- XXX--- EXISTING CONTOUR
- XXX--- PROPOSED CONTOUR
- --- BREAKLINE
- --- SWALE
- - - - - ALTERNATE LIMITS
- ASPH TOP OF ASPHALT
- CONC CONCRETE
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- INV INVERT
- SW SIDEWALK
- SLPB SLOPE BOTTOM
- SLPT SLOPE TOP
- TC TOP OF CURB

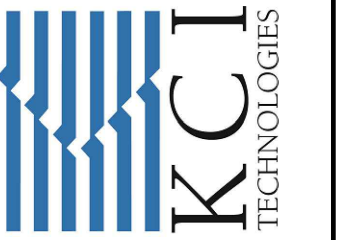
SEE MATCH LINE SHEET C3.1



SEE MATCH LINE SHEET C3.3

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DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
 2808 W. BITTERS ROAD, SUITE 218
 SAN ANTONIO, TEXAS 78248
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 REGISTRATION #101943-65



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 PAUL A. MATHIS, P.E.
 NO. #103075
 ON: JANUARY 31, 2024
 DATE



REV	DATE	DESCRIPTION

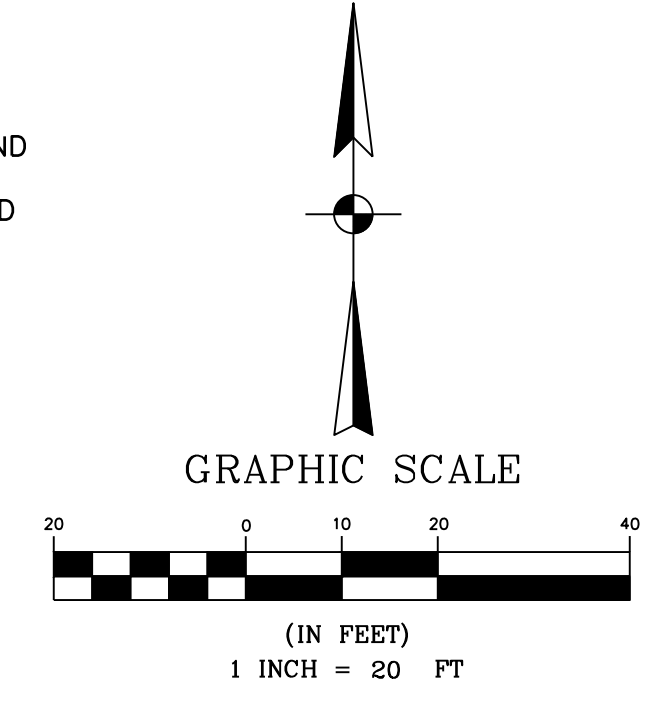
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 GRADING PLAN SW

SHEET NO.
C3.2
 JANUARY 31, 2024

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SUE NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON RECORD DRAWINGS AND FIELD EVIDENCE. NO SUE INVESTIGATION HAS BEEN DONE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING AND VERIFYING THE DEPTH OF ALL UTILITIES.

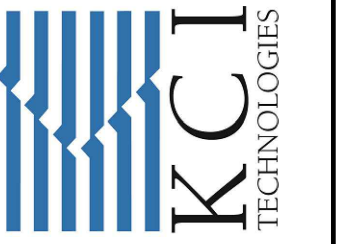


LEGEND:

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- XXX--- PROPOSED CONTOUR
- --- BREAKLINE
- --- SWALE
- --- ALTERNATE LIMITS
- ASPH --- TOP OF ASPHALT
- CONC --- CONCRETE
- EC --- EDGE OF CONCRETE
- EX --- EXISTING
- FG --- FINISH GROUND
- FL --- FLOWLINE
- FF --- FINISH FLOOR
- GUT --- GUTTER
- INV --- INVERT
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- SLPB --- SLOPE BOTTOM
- SLPT --- SLOPE TOP
- TC --- TOP OF CURB

DESIGNED BY:	PAM
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APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
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 PAUL A. MATHIS, P.E.
 NO. #103075
 ON: JANUARY 31, 2024
 DATE



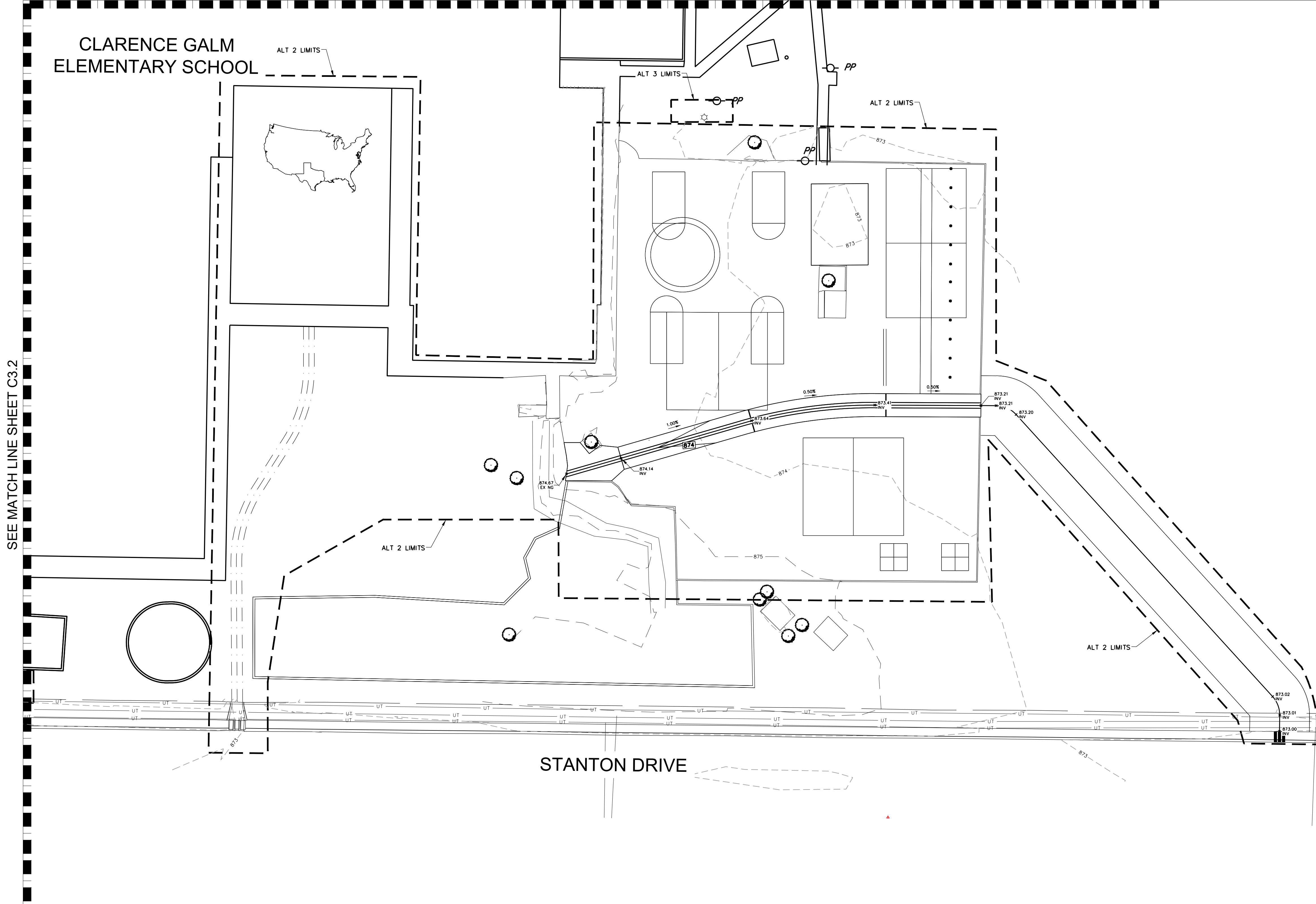
REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALM ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 GRADING PLAN SE

SHEET NO.
C3.3
 JANUARY 31, 2024

SEE MATCH LINE SHEET C3.0

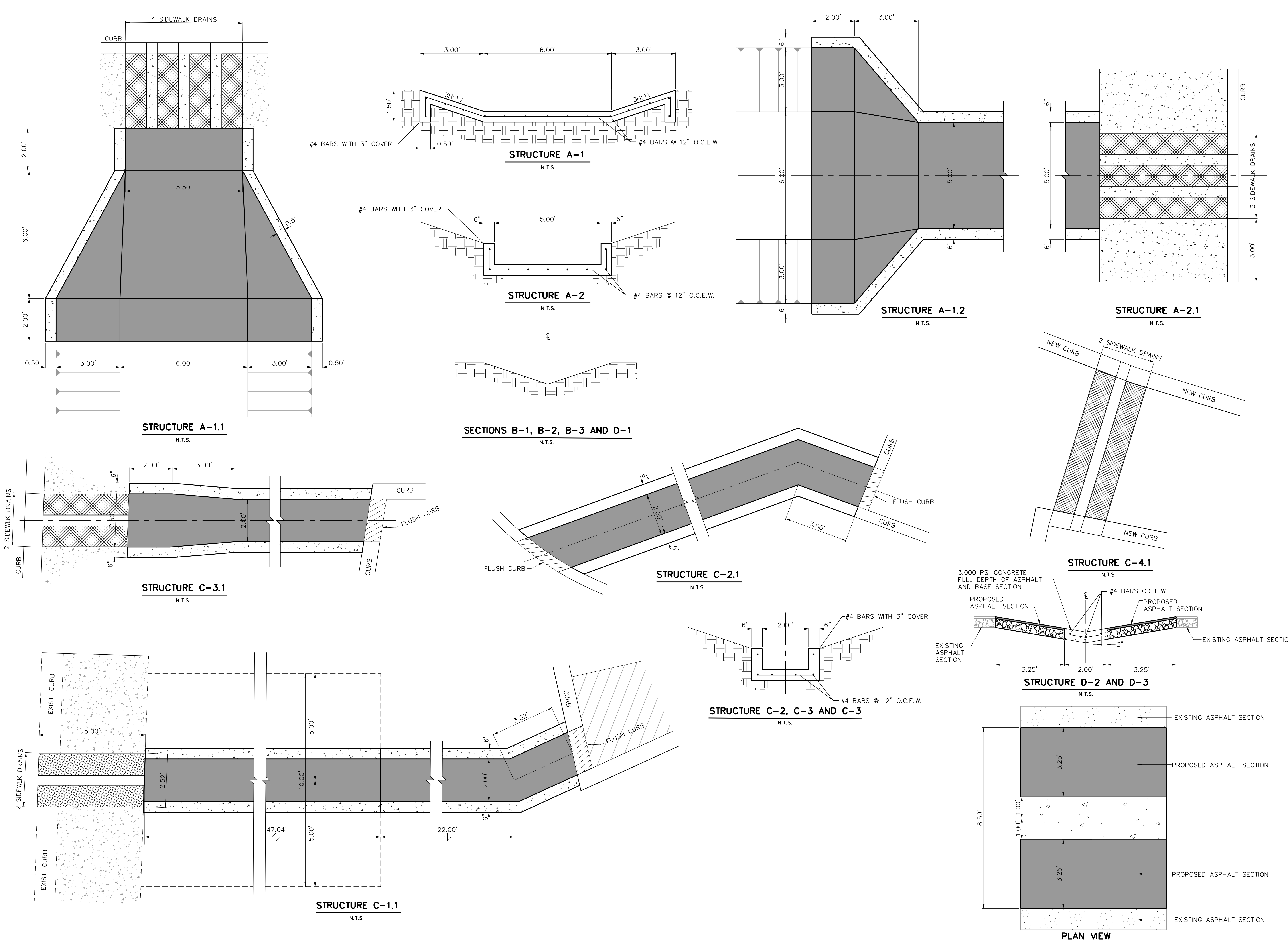
CLARENCE GALM ELEMENTARY SCHOOL



STANTON DRIVE

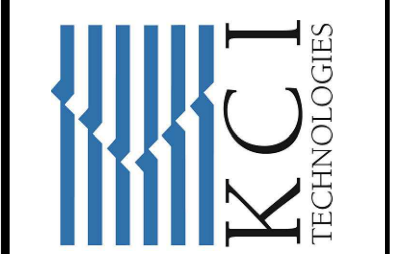
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DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
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SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-8699
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65



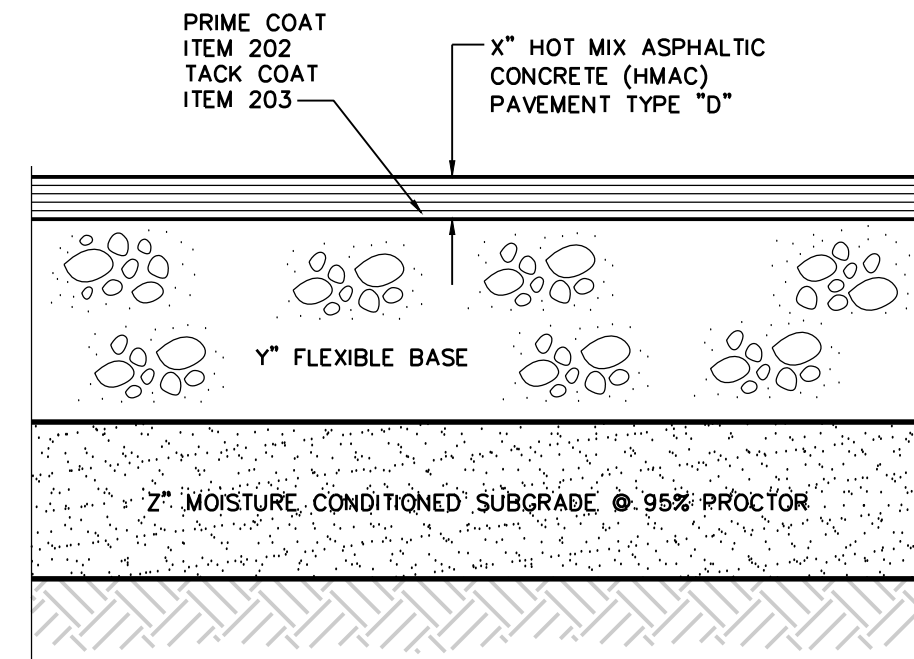
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY:
PAUL A. MATSIS, P.E.
NO. #105075
ON: JANUARY 31, 2024
DATE



REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
DRAINAGE DETAILS

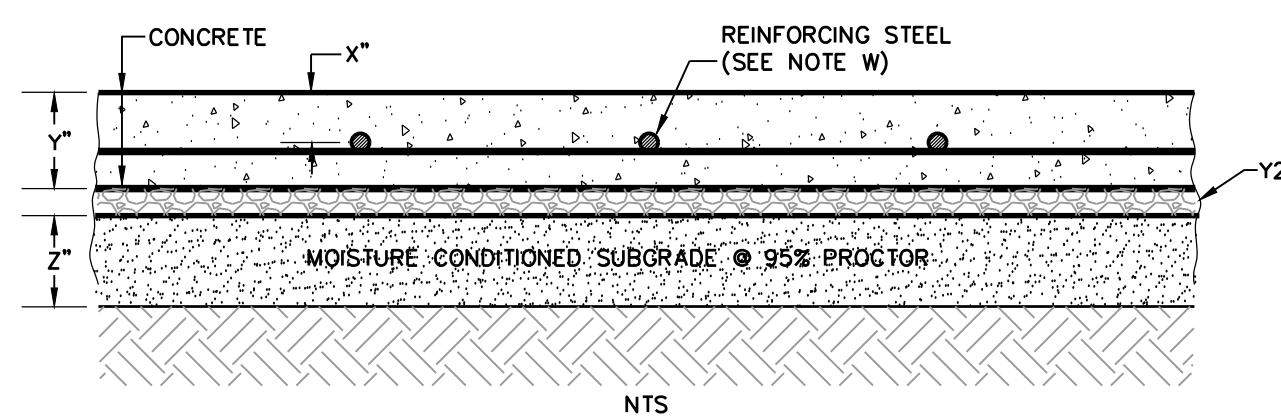
SHEET NO.
C3.4
JANUARY 31, 2024



TYPE	DRIVE LANES	PARKING SPACES
X	HMAC 2.0"	CLAY 2.0"
Y	FLEXBASE 12.0"	CLAY 10.0"
Z	SUBGRADE *6.0"	CLAY *6.0"

X - DEPTH, ITEM 205.3(1)
 Y - COMPACTED DEPTH, ITEM 200.3(1)
 Z - COMPACTED DEPTH, SEE BELOW
 * REFER TO GEOTECH FOR DETAILS AND REFER TO THE NOTE @ BOTTOM OF PAGE

1 HMAC PAVEMENT SECTION
 NTS

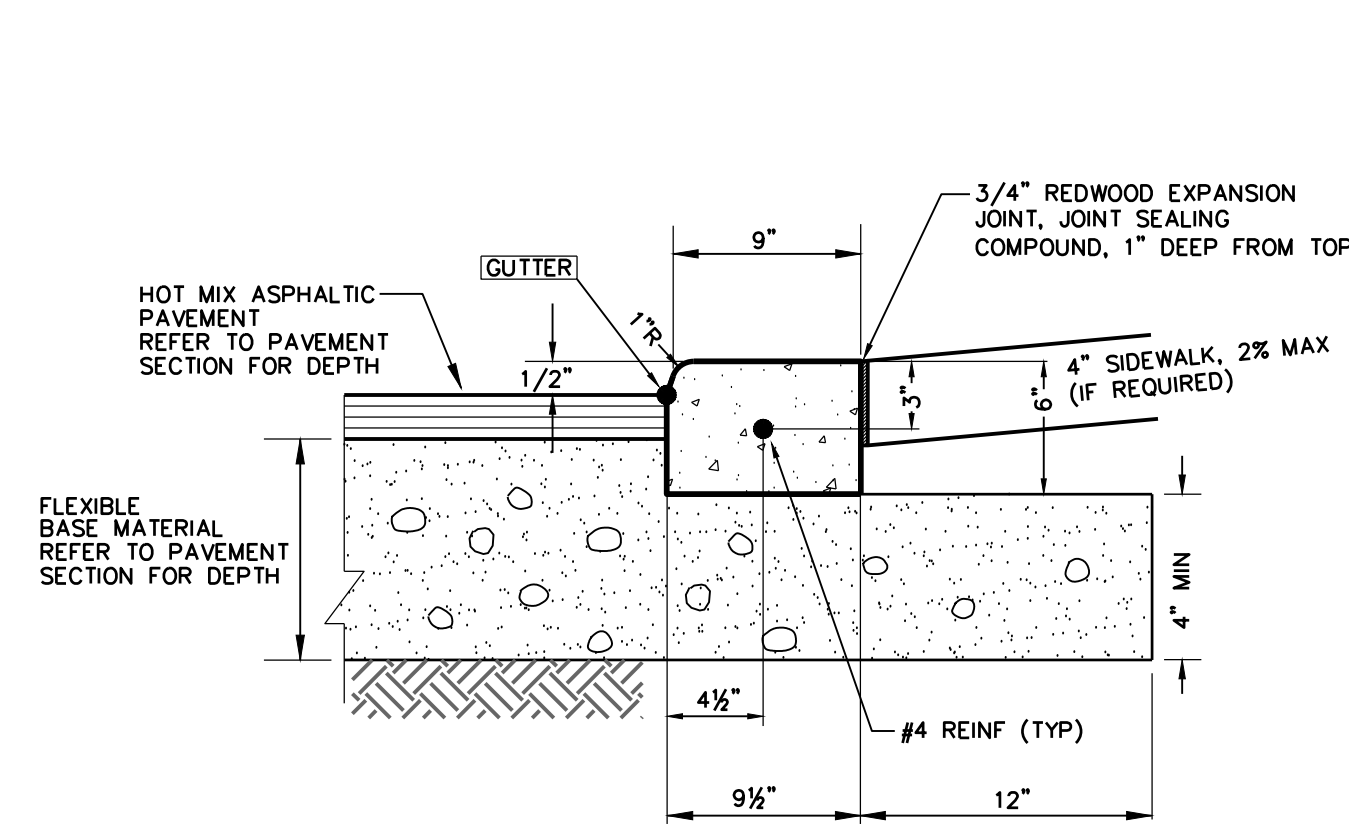


W	REINFORCEMENT	#4 BARS @ 18" O.C.E.W.
X	SPACING	3.0" 1/2

TYPE	DRIVE LANES	PARKING SPACES
Y	CONCRETE 6.0"	CLAY 8.0"
Y2	FLEXBASE 4.0"	CLAY 4.0"
Z	SUBGRADE *6.0"	CLAY *6.0"

Y - DEPTH
 Y2 - DEPTH
 Z - COMPACTED DEPTH, LIME TREATED* (ASTM D698)
 *REFER TO GEOTECH FOR DETAILS AND REFER TO THE NOTE @ BOTTOM OF PAGE

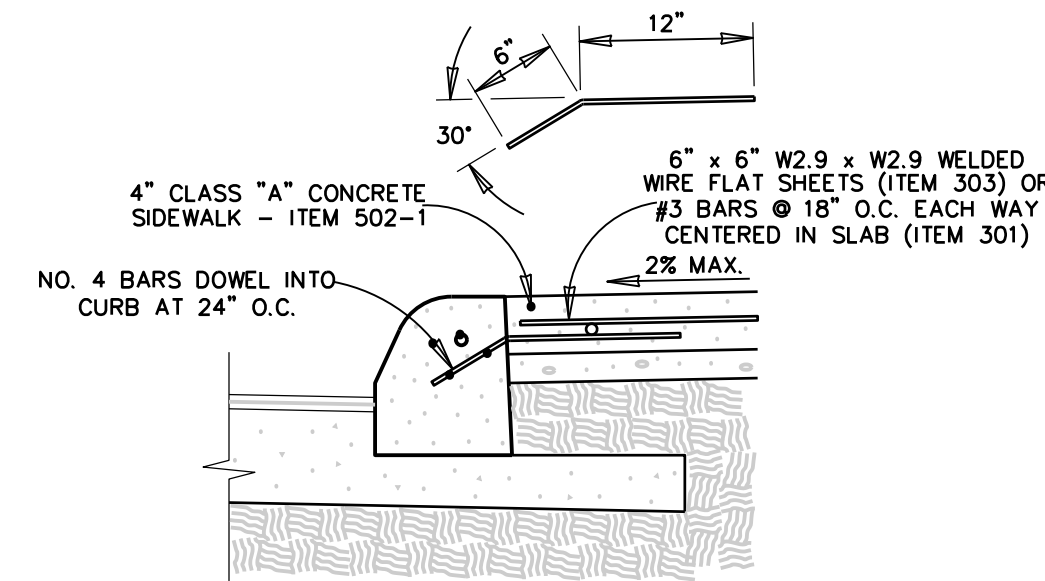
2 CONCRETE PAVEMENT
 NTS



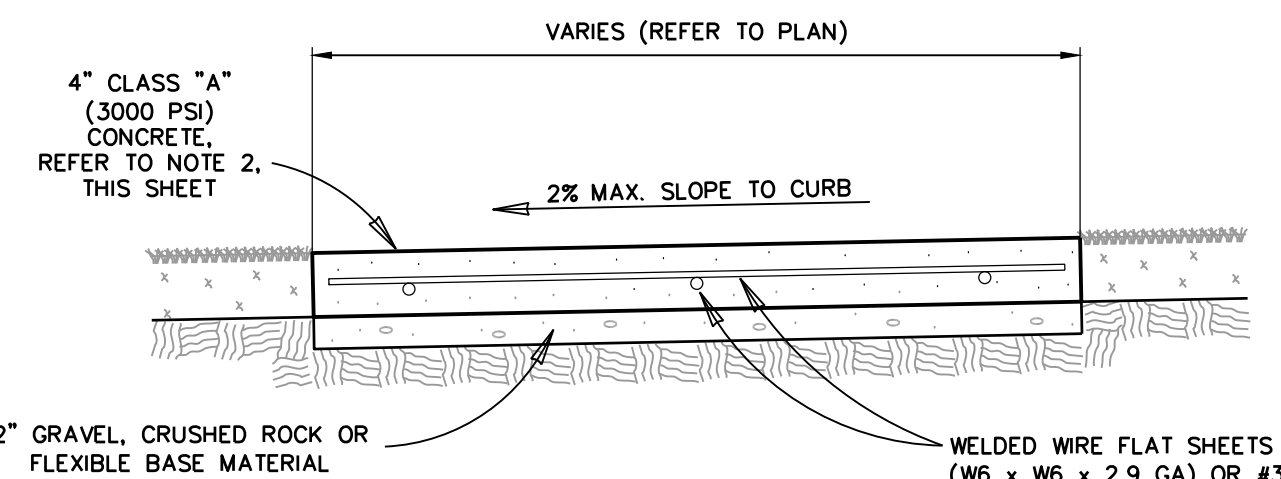
NOTES:

- 1/2" DUMMY JOINTS @ 10' ON CENTER
- 1/2" EXPANSION JOINT @ 40' ON CENTER (TYP) OR WHEN CURB ABUTS A CONCRETE STRUCTURE
- CONCRETE SHALL BE f'c = 3,000 PSI, MAX 4" SLUMP (CSA PW ITEM 300 CLASS A)
- IF NO SIDEWALK REQUIRED AT BACK OF CURB BACKFILL/SLOPE AS SHOWN ON PLANS
- EXPOSED SURFACES TO BE CURED AS PER TXDOT "DMS-4650"; REFER TO TXDOT APPROVED SUPPLIER MATERIALS PRODUCER LIST, CURRENT VERSION.
- REINFORCING STEEL SHALL COMPLY WITH TXDOT ITEM 440.

4 MACHINE LAID FLUSH CURB
 COMMERCIAL USE
 NTS

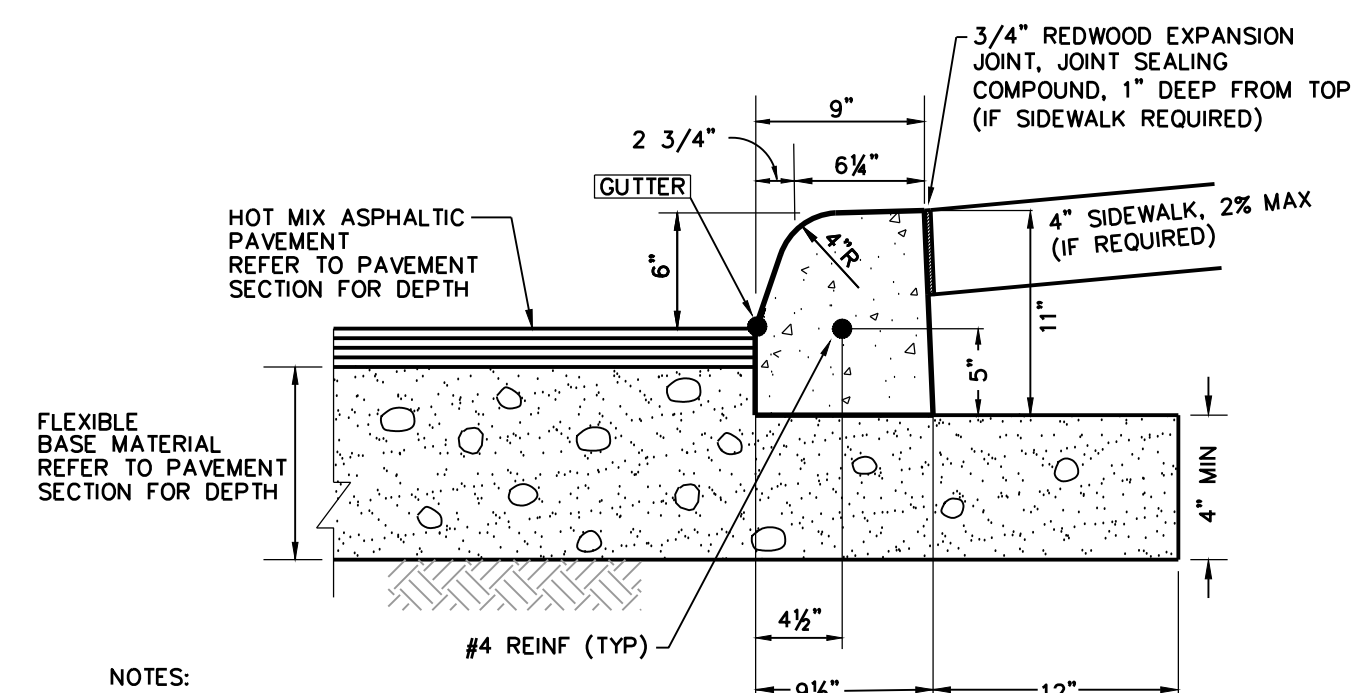


5 CONCRETE SIDEWALK
 ABUTTING CURB SECTION
 NTS



- NOTE:
- 1/2" EXPANSION JOINTS @ 40' INTERVALS
 - DUMMY JOINTS @ 10' ON CENTER

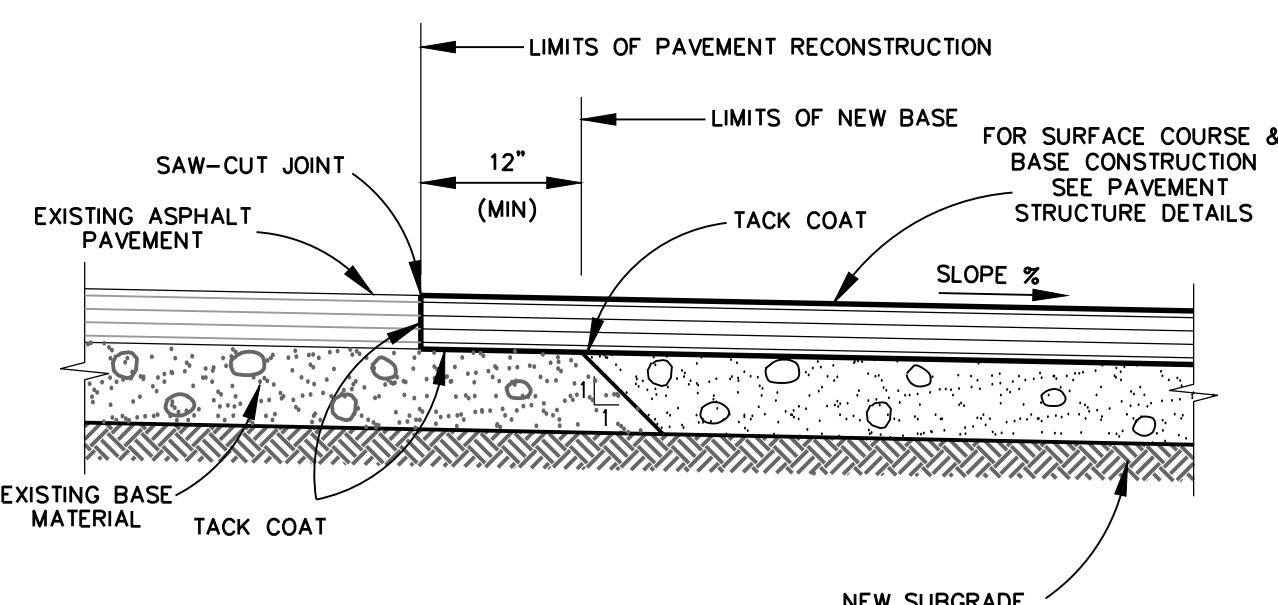
6 CONCRETE SIDEWALK
 NTS



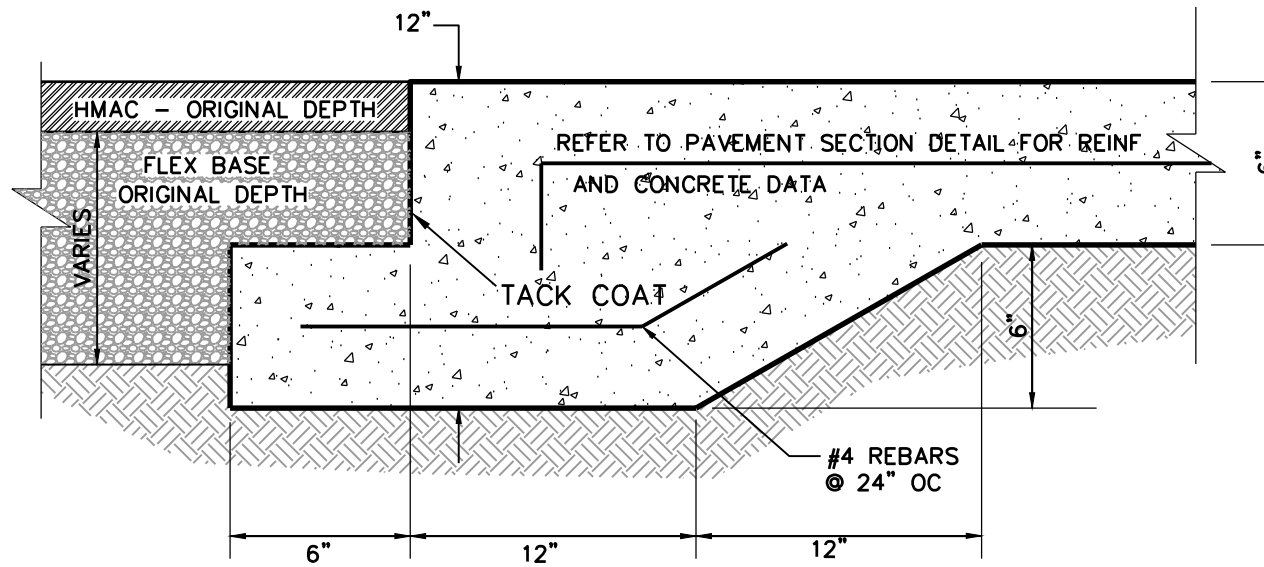
NOTES:

- 1/2" DUMMY JOINTS @ 10' ON CENTER
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- CONCRETE SHALL BE f'c = 3,000 PSI, MAX 4" SLUMP (CSA PW ITEM 300 CLASS A)
- IF NO SIDEWALK REQUIRED AT BACK OF CURB BACKFILL/SLOPE AS SHOWN ON PLANS
- EXPOSED SURFACES TO BE CURED AS PER TXDOT "DMS-4650"; REFER TO TXDOT APPROVED SUPPLIER MATERIALS PRODUCER LIST, CURRENT VERSION.
- REINFORCING STEEL SHALL COMPLY WITH TXDOT ITEM 440.

3 MACHINE LAID CURB
 COMMERCIAL USE
 NTS

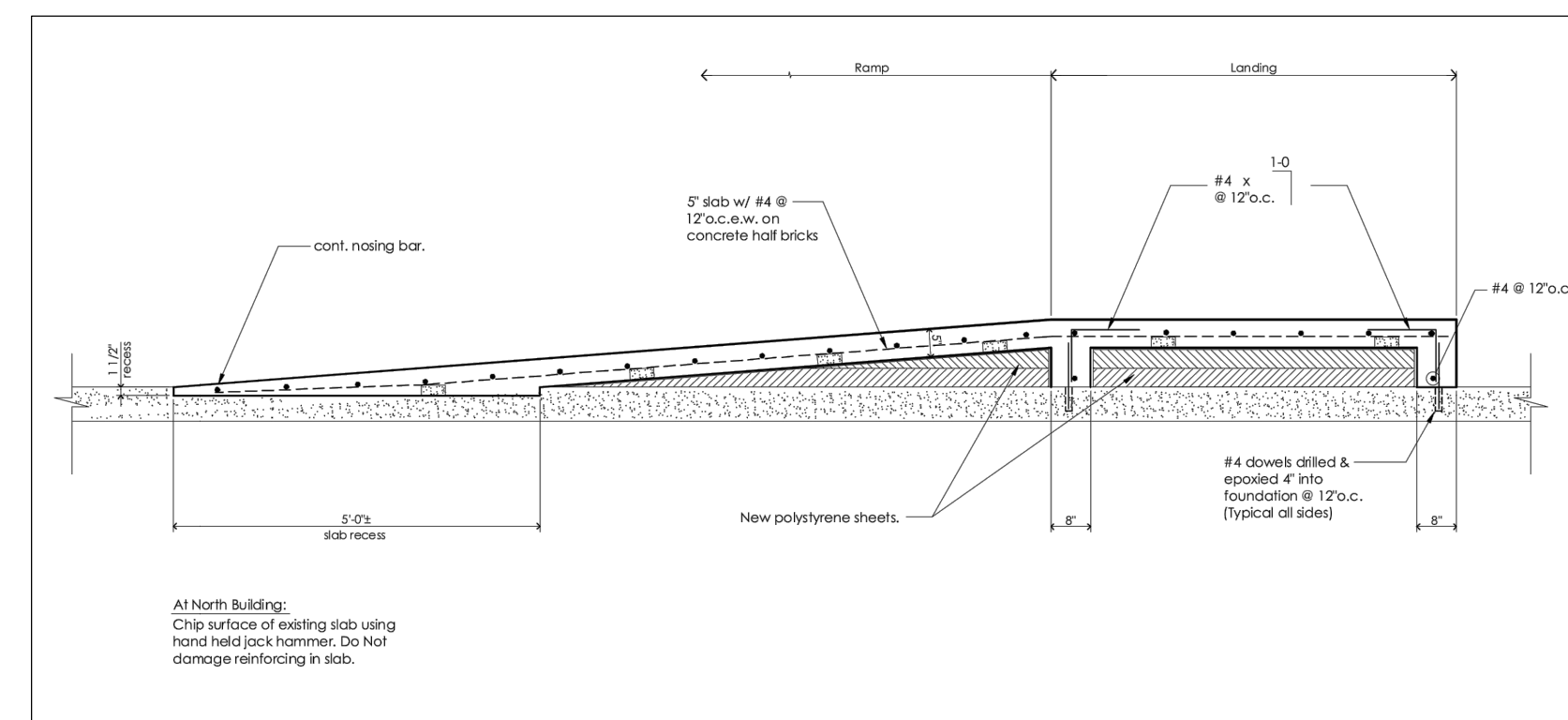


7 PAVEMENT JUNCTION DETAILS
 NTS



9 JOINT DETAILS
 NTS

- NOTES:
- CONTROL JOINTS TO BE NO MORE THAN 10' APART.
 - EXPANSION JOINTS TO BE LOCATED WHERE CONCRETE PAVEMENT ABUTS THE STRUCTURAL SLAB WITH #4 DOWELS SPACED AT 18" O.C. AND @ 40' INTERVALS.



11 TYPICAL RAMP DETAIL AT EXISTING CONCRETE
 NTS

NOTE A:

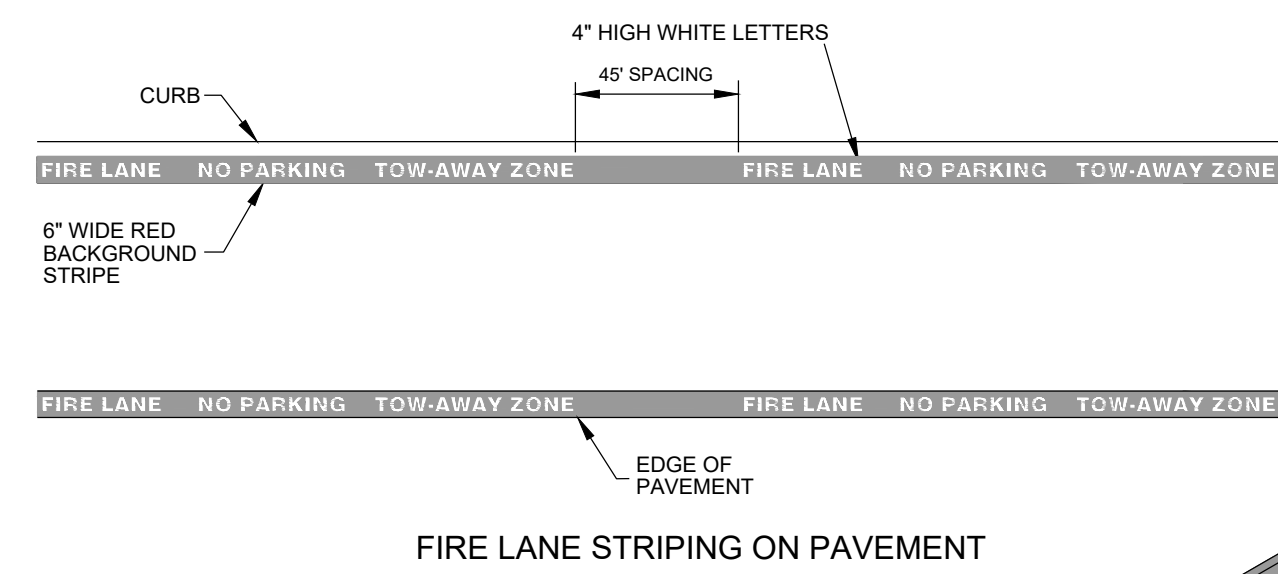
CLASS "A" CONCRETE REFERS TO CONCRETE USED IN THE FOLLOWING GENERAL APPLICATIONS AND CRITERIA
 USAGE: INLETS, MANHOLES, CURBS, GUTTERS, CURBS AND GUTTERS, CONCRETE RETARDS, SIDEWALKS, DRIVEWAYS, BACKUP WALLS, ANCHORS

DESIGN STRENGTH, MIN 28-DAY f'c: 3,000 psi
 MAXIMUM WATER-CEMENT RATIO: 0.60

COARSE AGGREGATE GRADES: 1-4, 8 (AS PER TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES" ITEM 421, TABLE 5 CONCRETE CLASSES)

FIRE LANE MARKING NOTES:

- CONTRACTOR TO PROVIDE PAVEMENT MARKINGS AS NOTED BELOW:
 1.1. A 6" WIDTH RED STRIPE ALONG ASPHALT OR CONCRETE PAVEMENT SURFACES WHERE INDICATED ON THE PLANS. CURBS SHALL BE PAINTED WHERE PRESENT, HOWEVER THE WORDS BELOW DO NOT HAVE TO BE ON SAWTOOTH CURB AND CAN BE PLACED ON THE PAVEMENT IN FRONT OF THE CURB.
 1.2. 4" TALL WHITE LETTERS READING "FIRE LANE / NO PARKING" SPACED AT 25' INTERVALS THAT DESIGNATE THE "FIRE LANE".
- CONTRACTOR TO PROVIDE SIGNS AS PER CITY OF SAN ANTONIO STANDARDS.



12 TYPICAL RAMP DETAIL AT DRIVEWAYS
 NTS

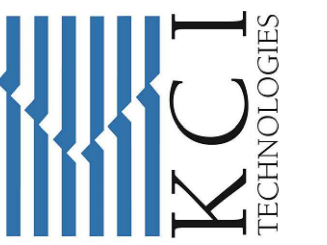


10 FIRE LANE STRIPING
 NTS

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 DRAWN BY: ASJ
 APPROVED: PAM
 JOB NO.: 79E0670600

KCI TECHNOLOGIES, INC.
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 SAN ANTONIO, TEXAS 78248
 PHONE: (210) 641-9899
 FAX: (210) 641-6440
 REGISTRATION #F-10573 / #101943-65



PROF. ENGINEER
 STATE OF TEXAS
 PAUL A. MATTHEIS
 103075



REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALT ELEMENTARY SCHOOL
 PAVING AND DRAINAGE
 IMPROVEMENTS
 CIVIL DETAILS

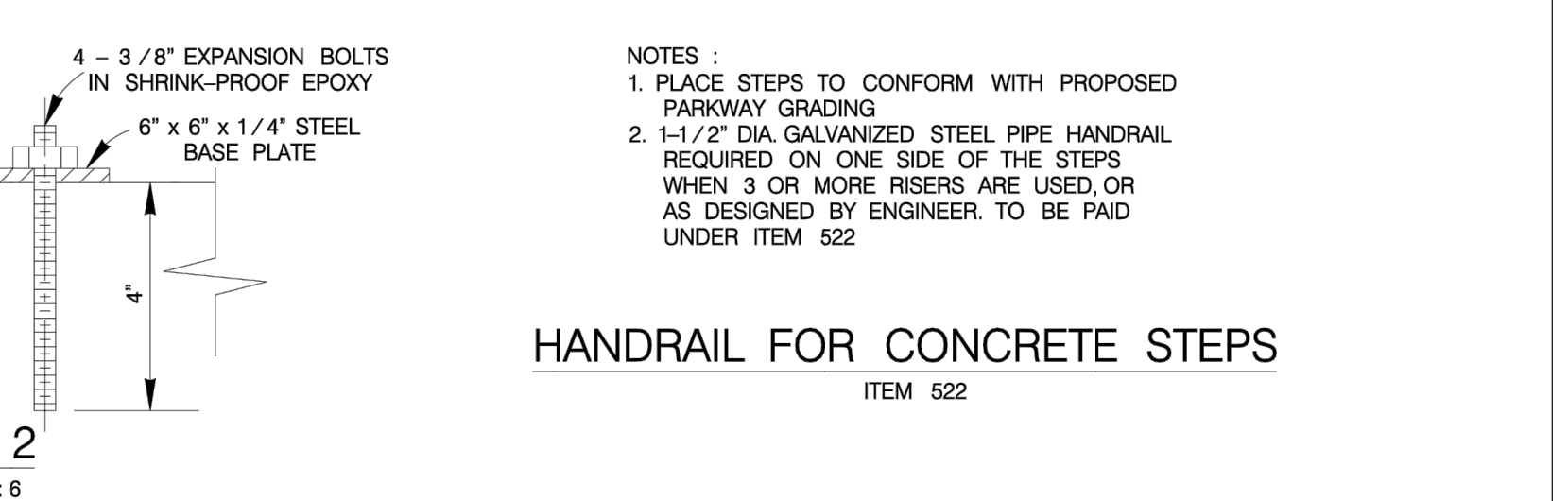
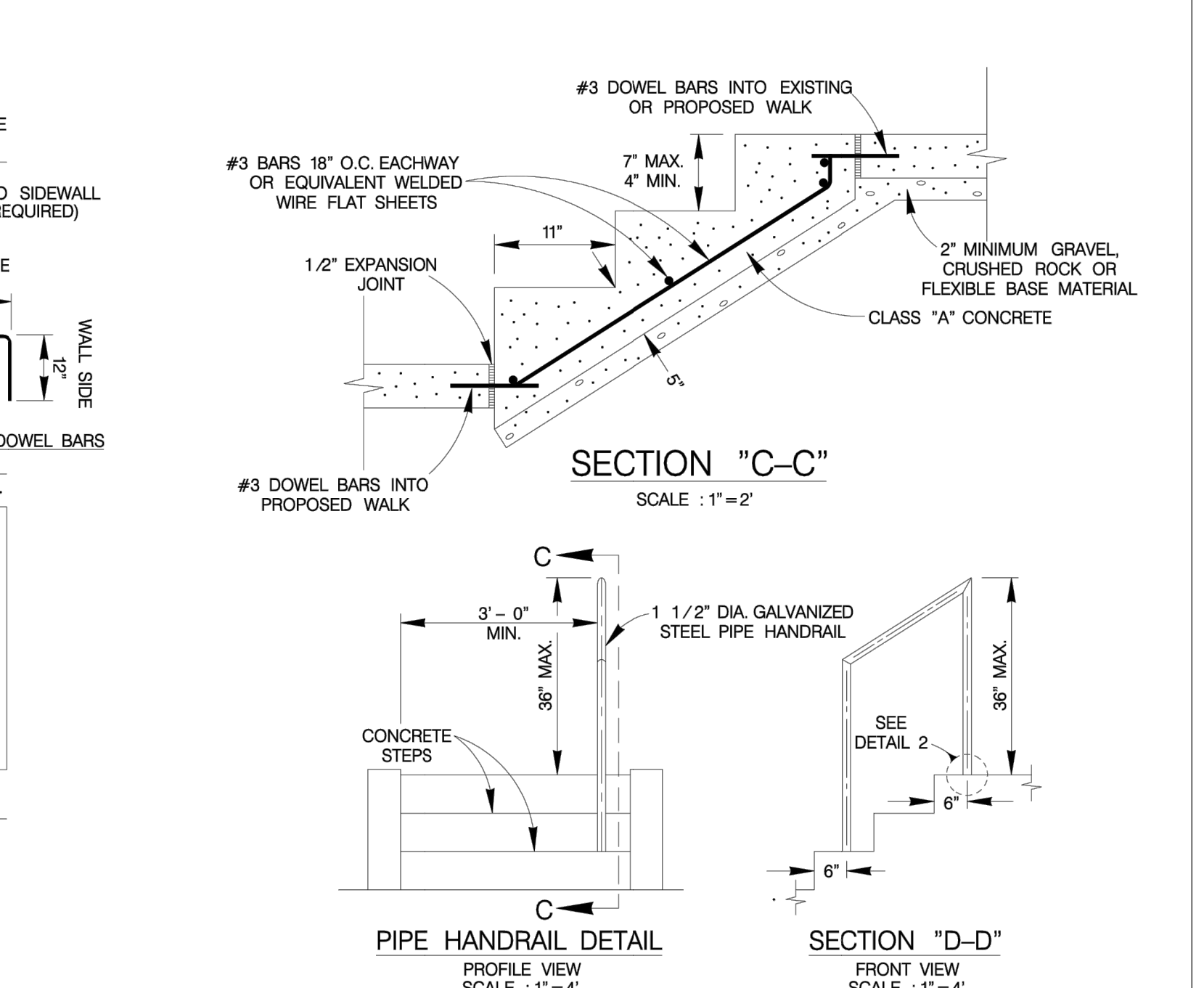
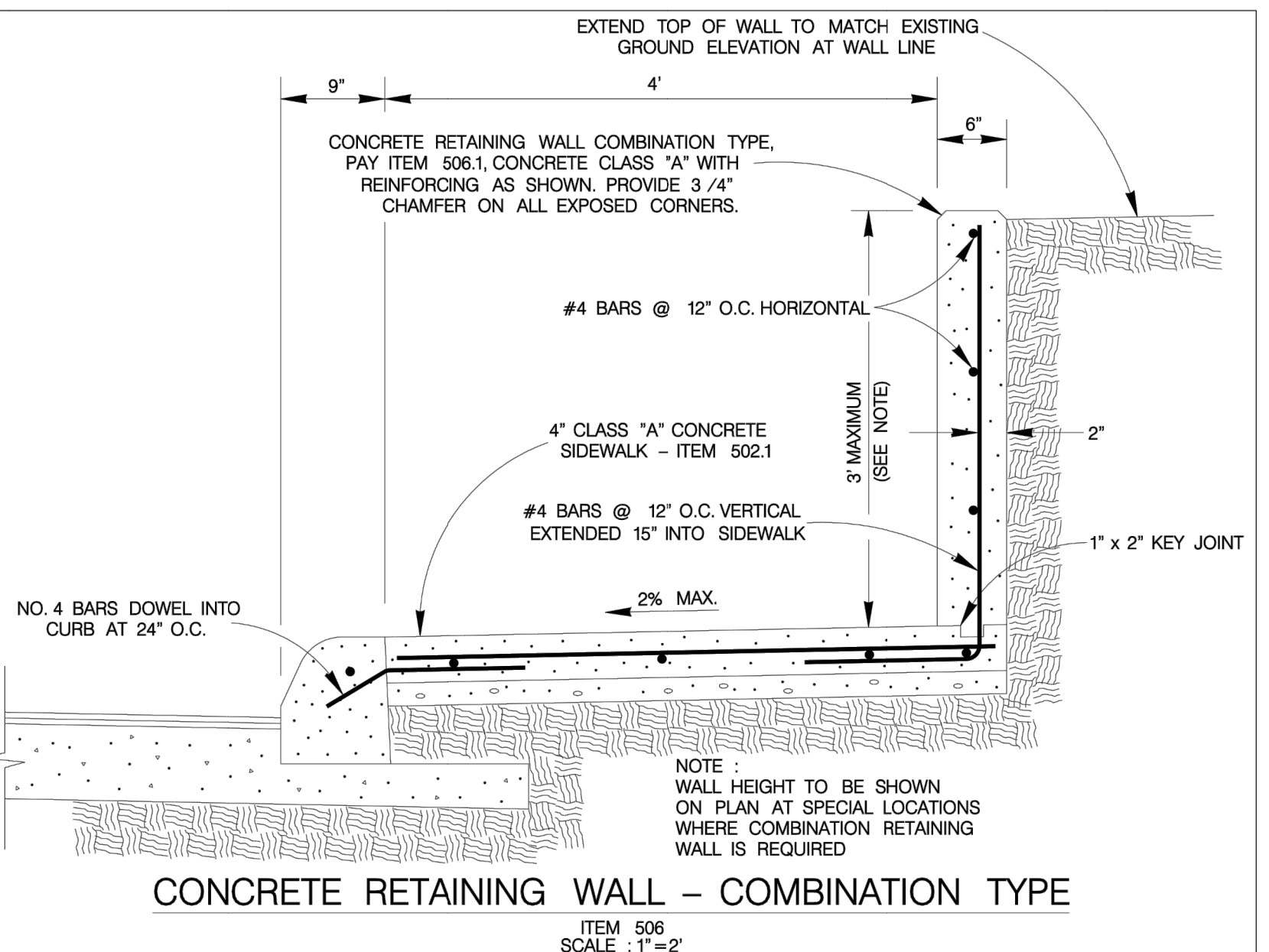
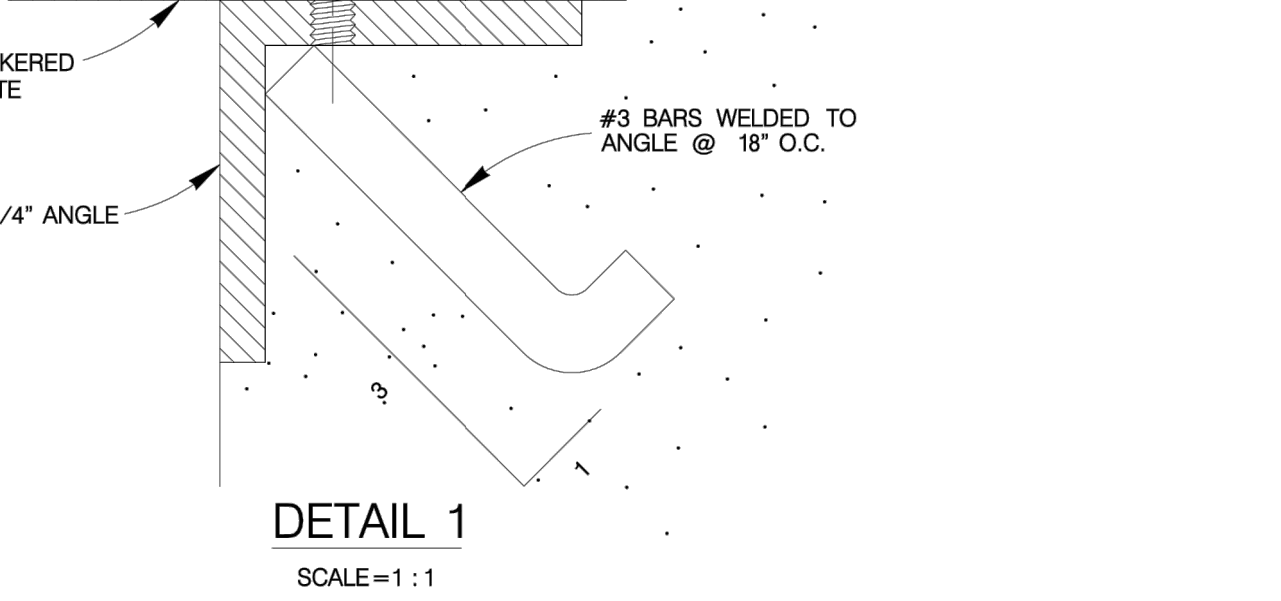
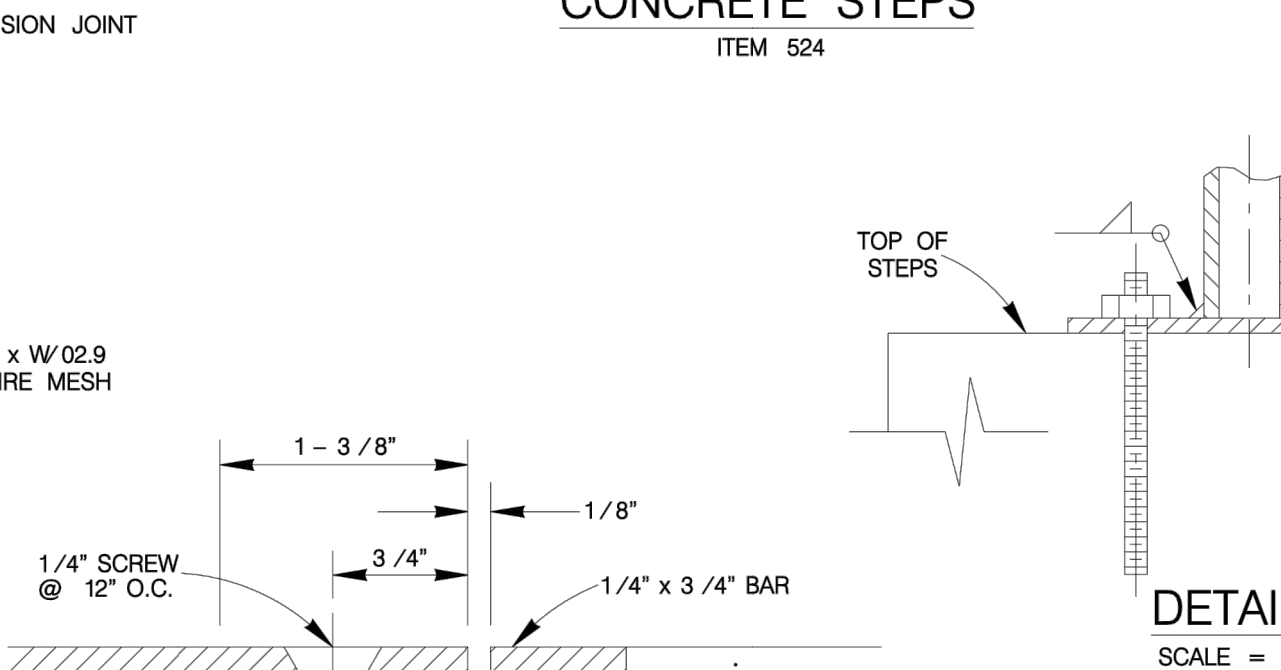
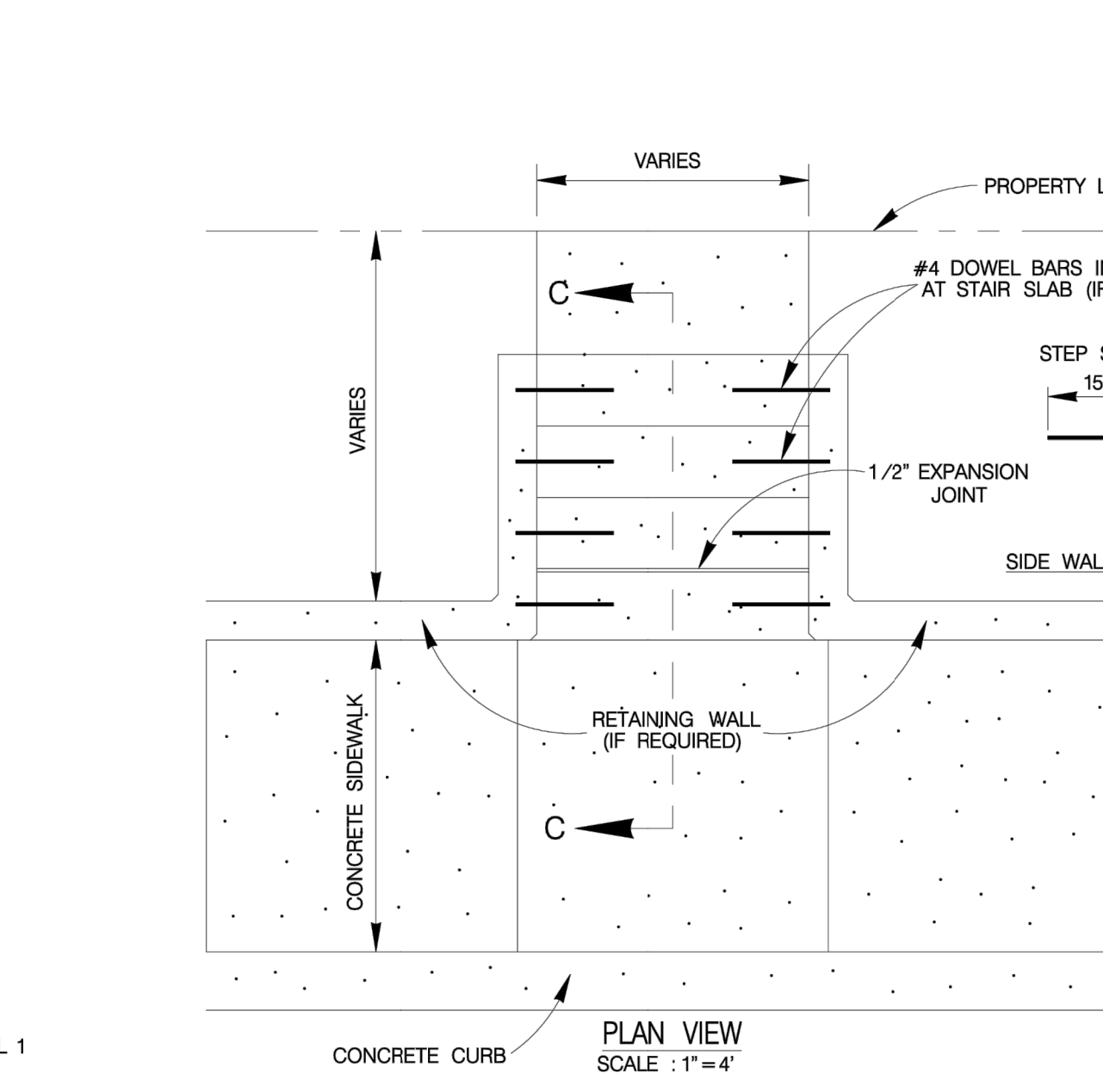
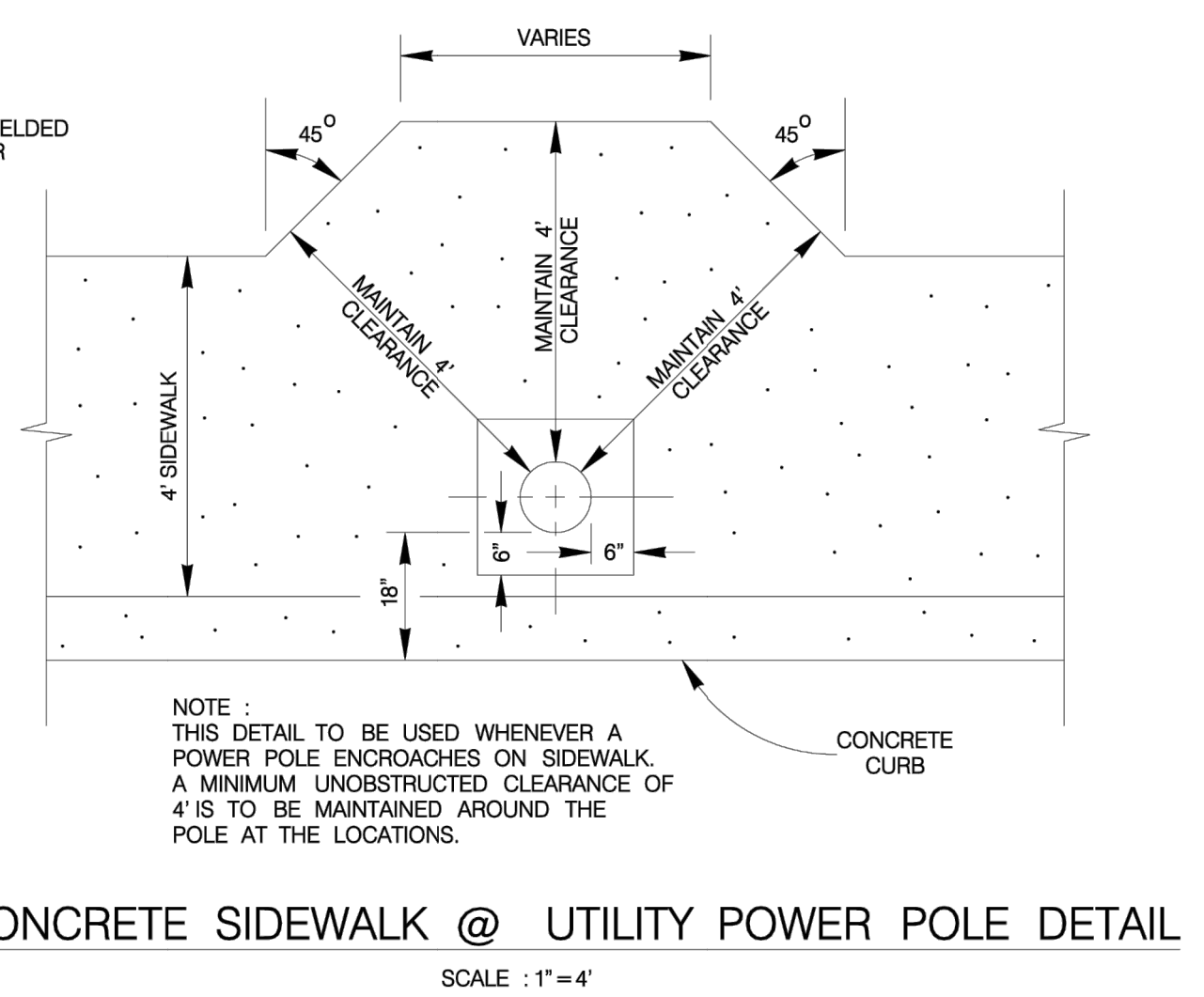
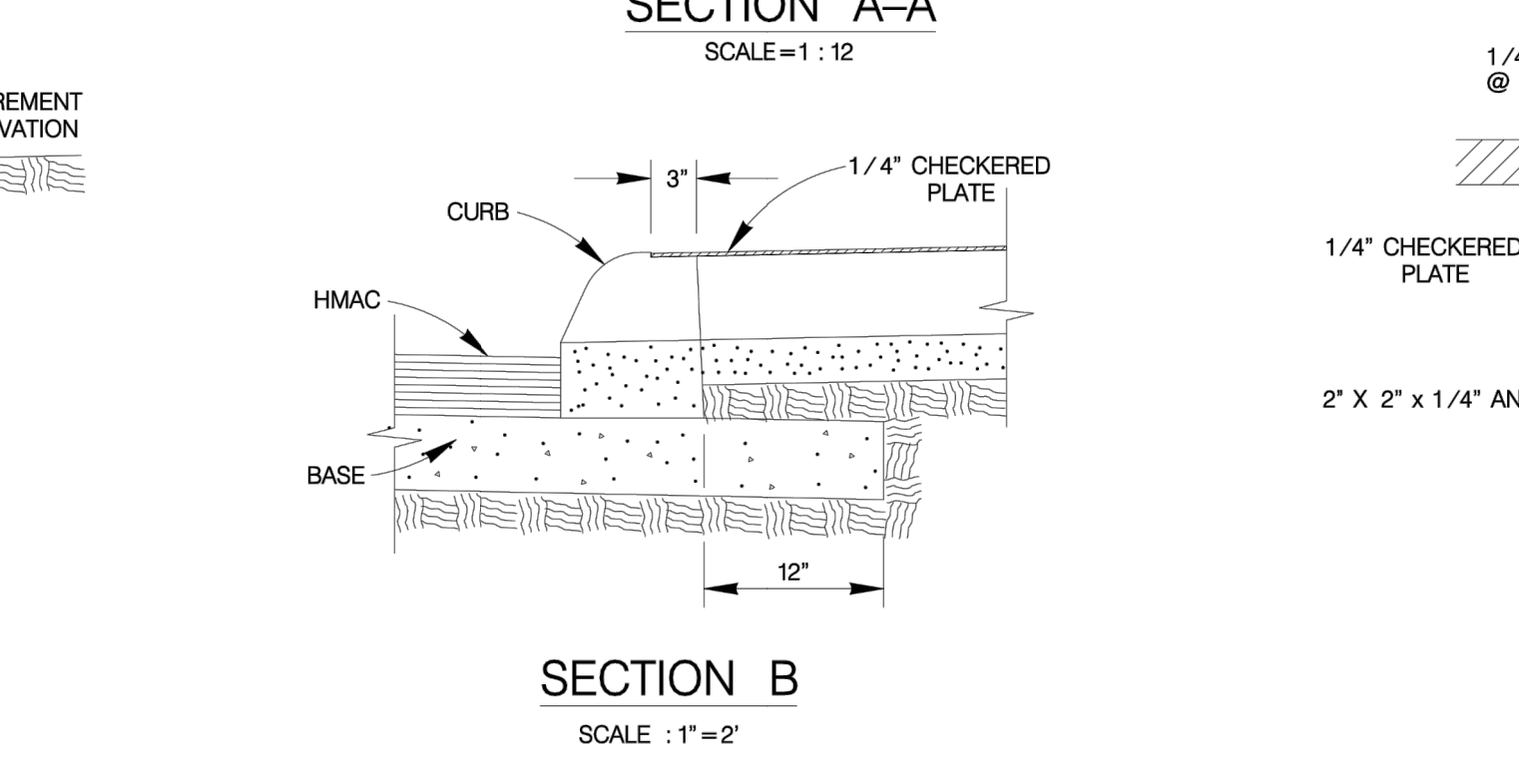
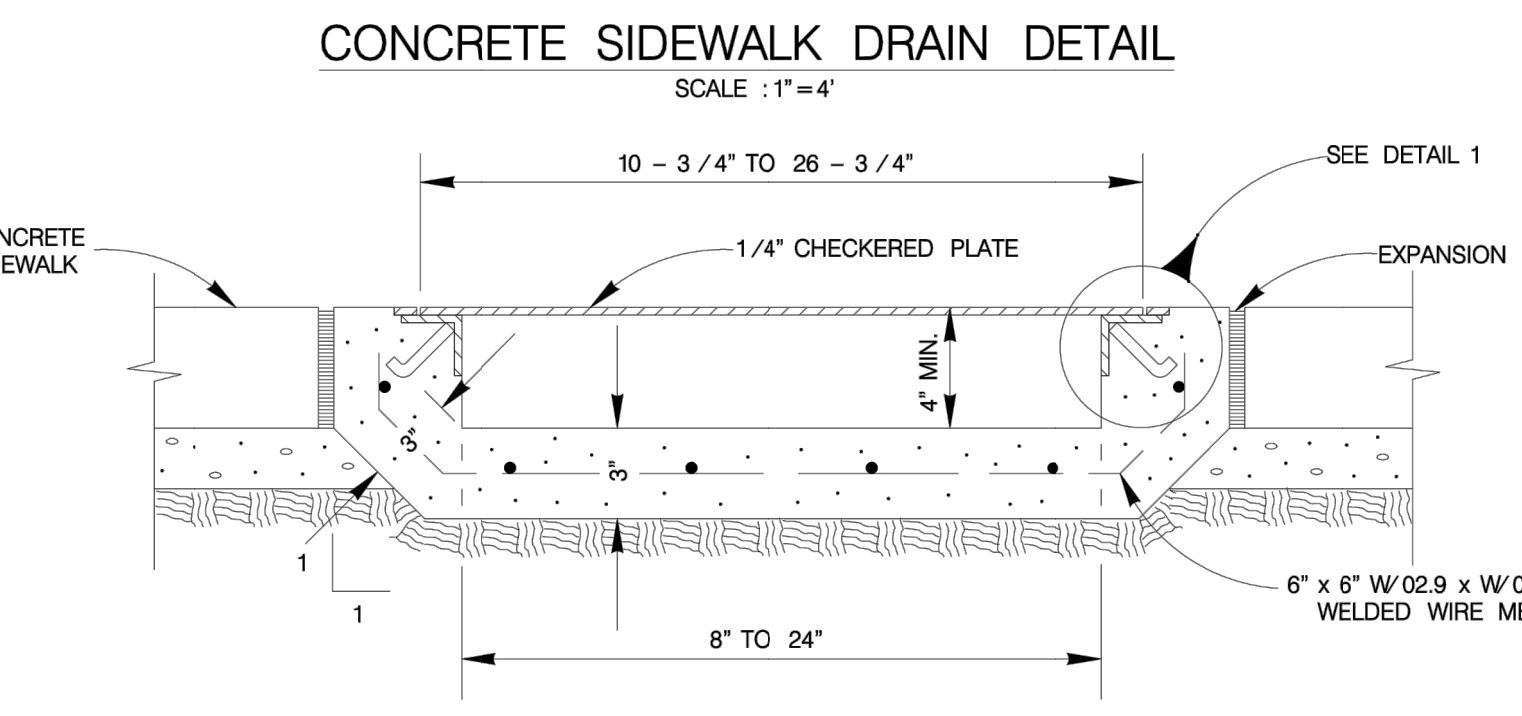
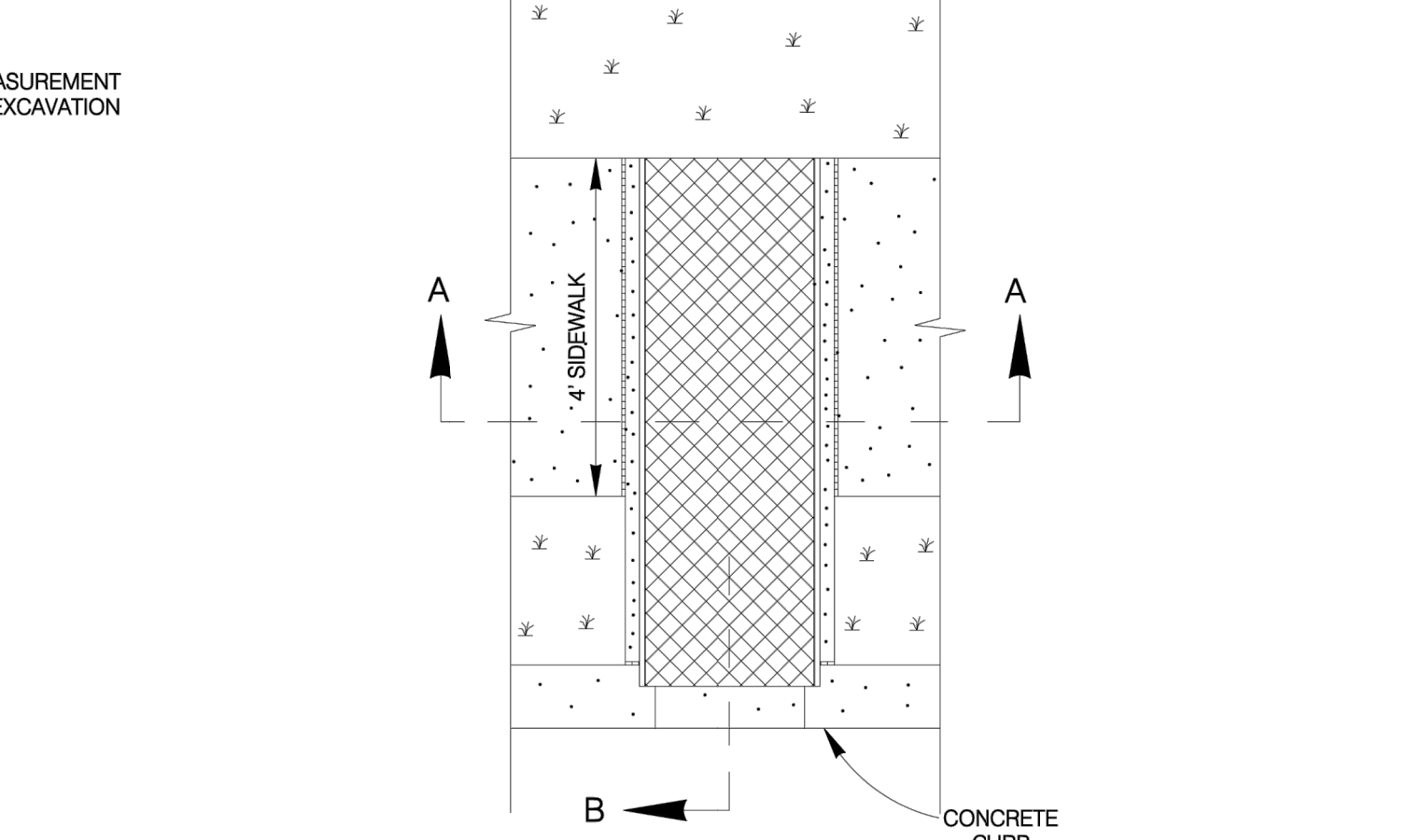
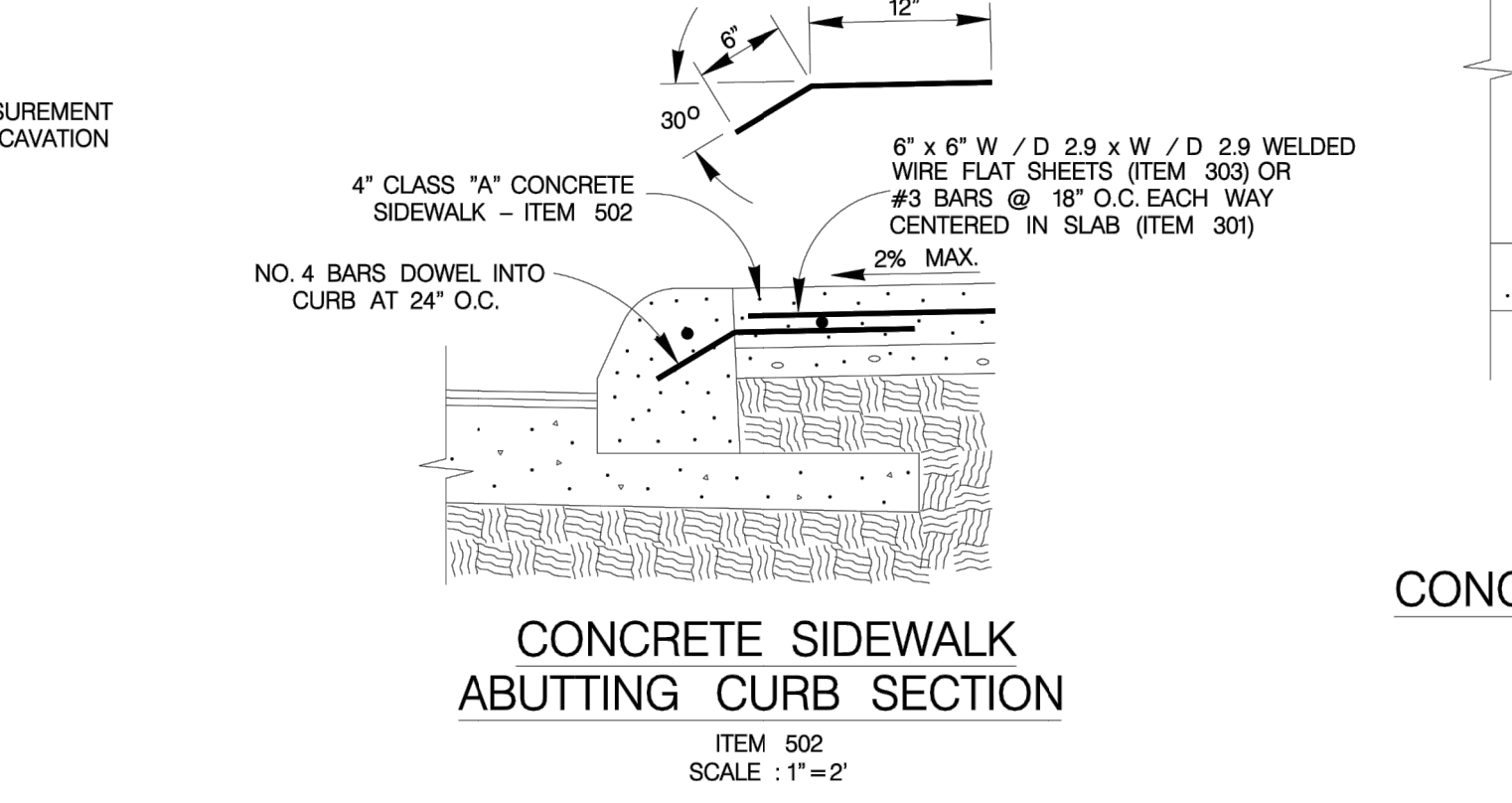
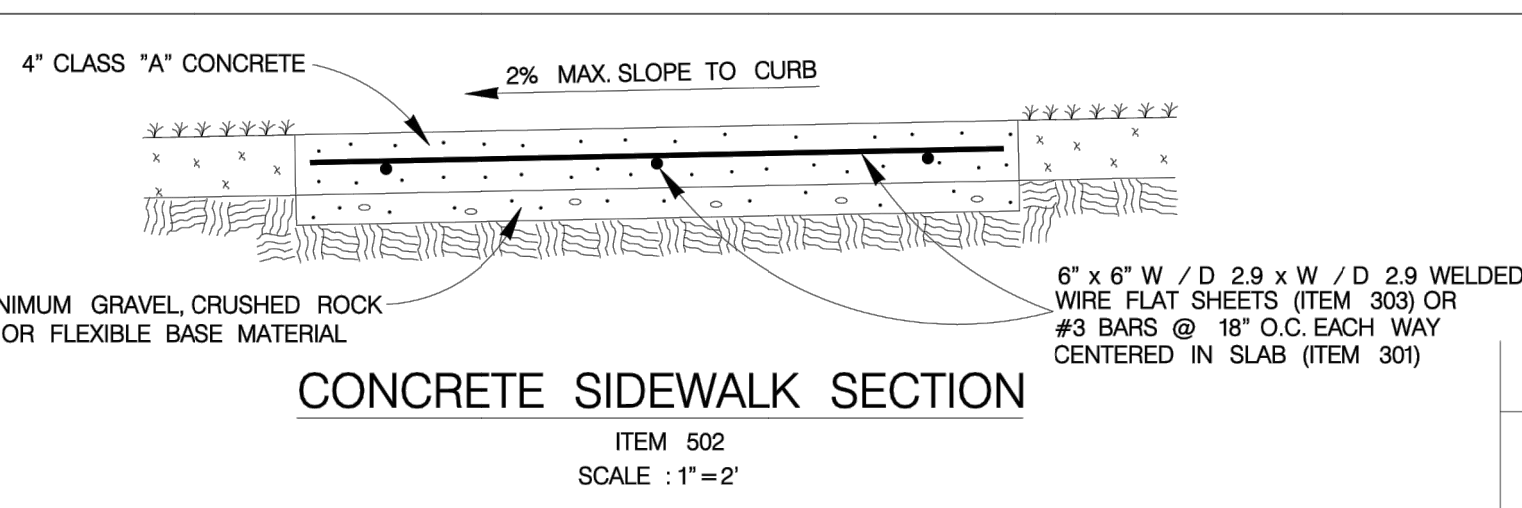
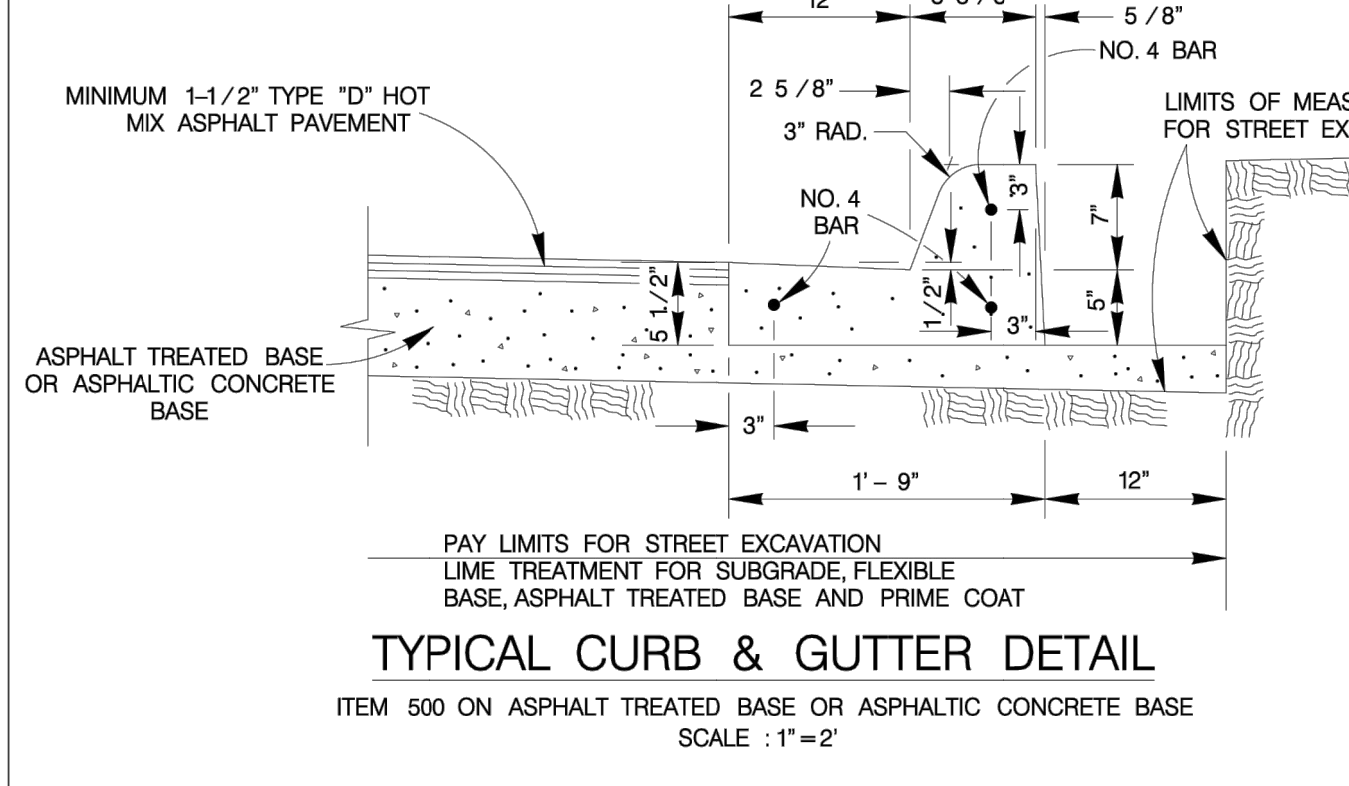
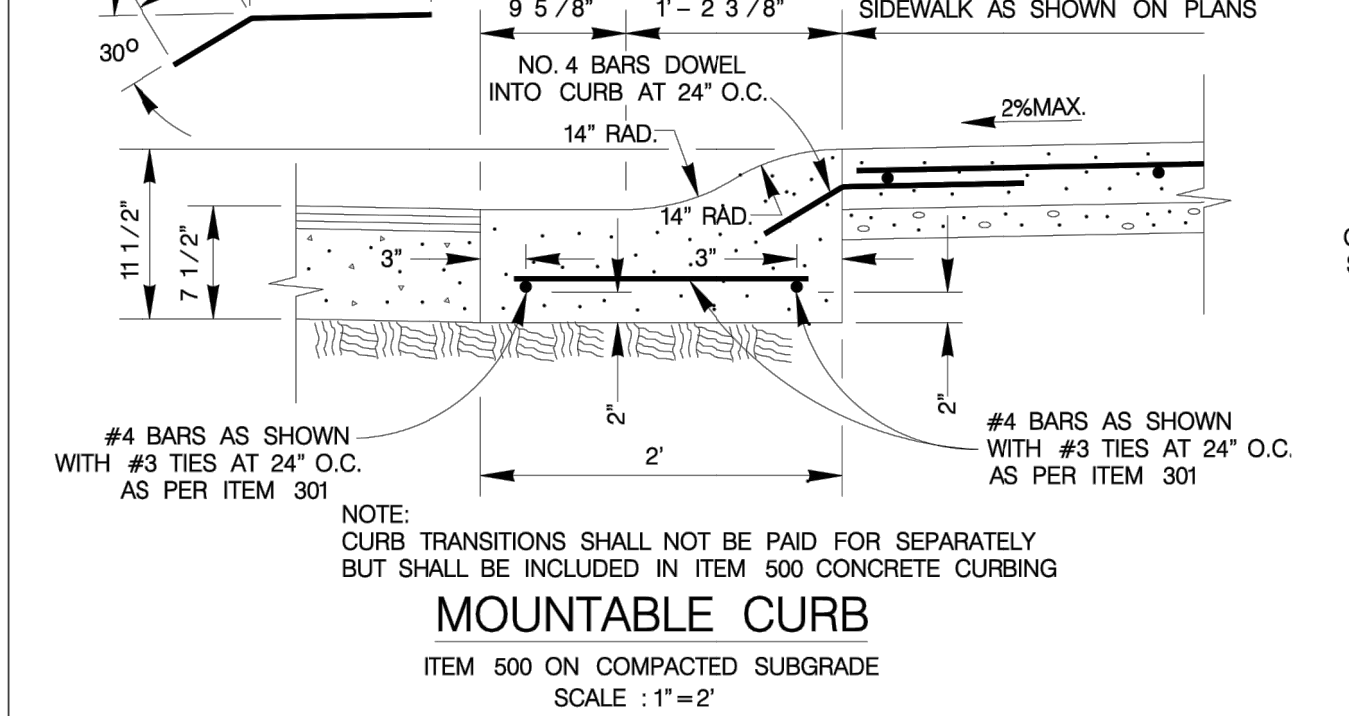
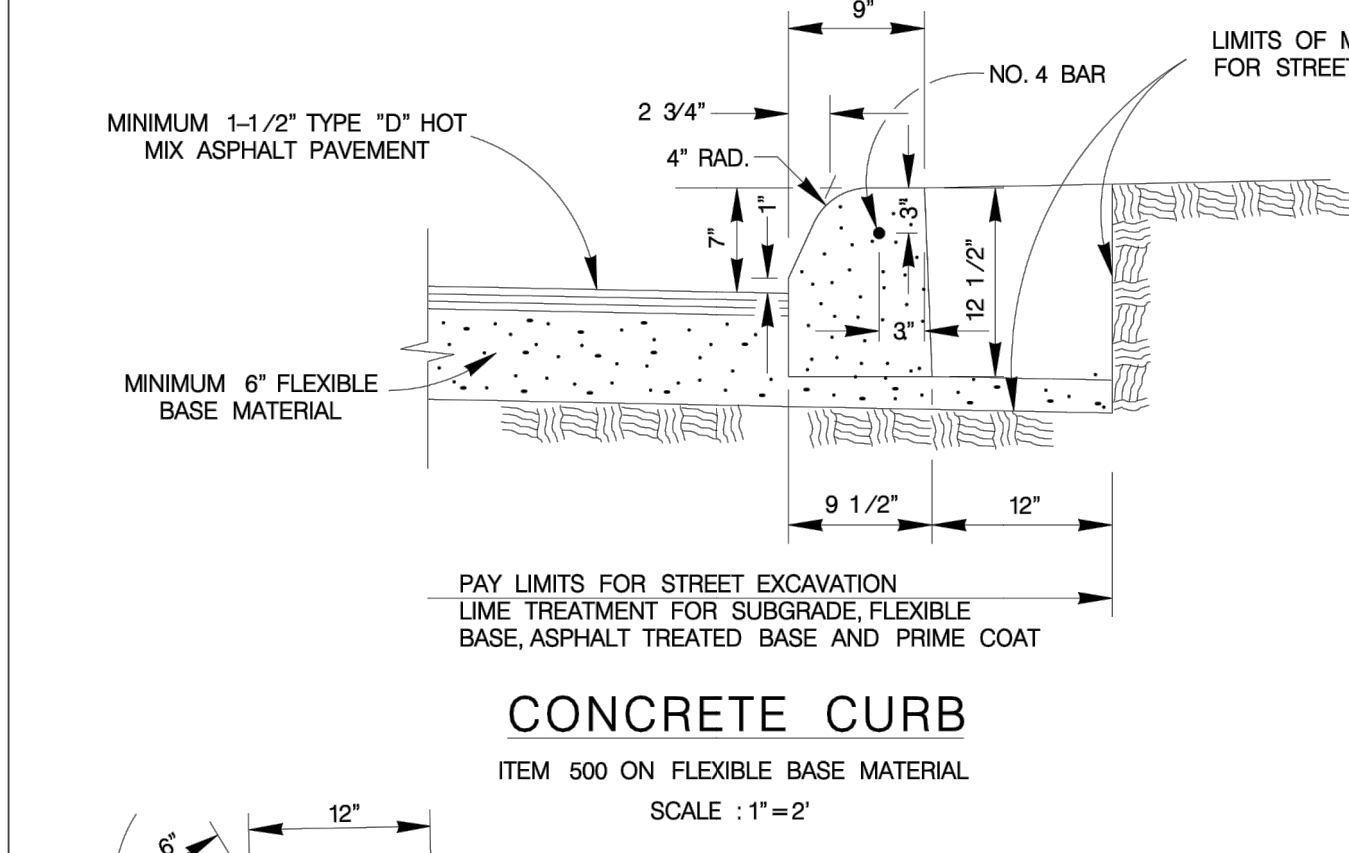
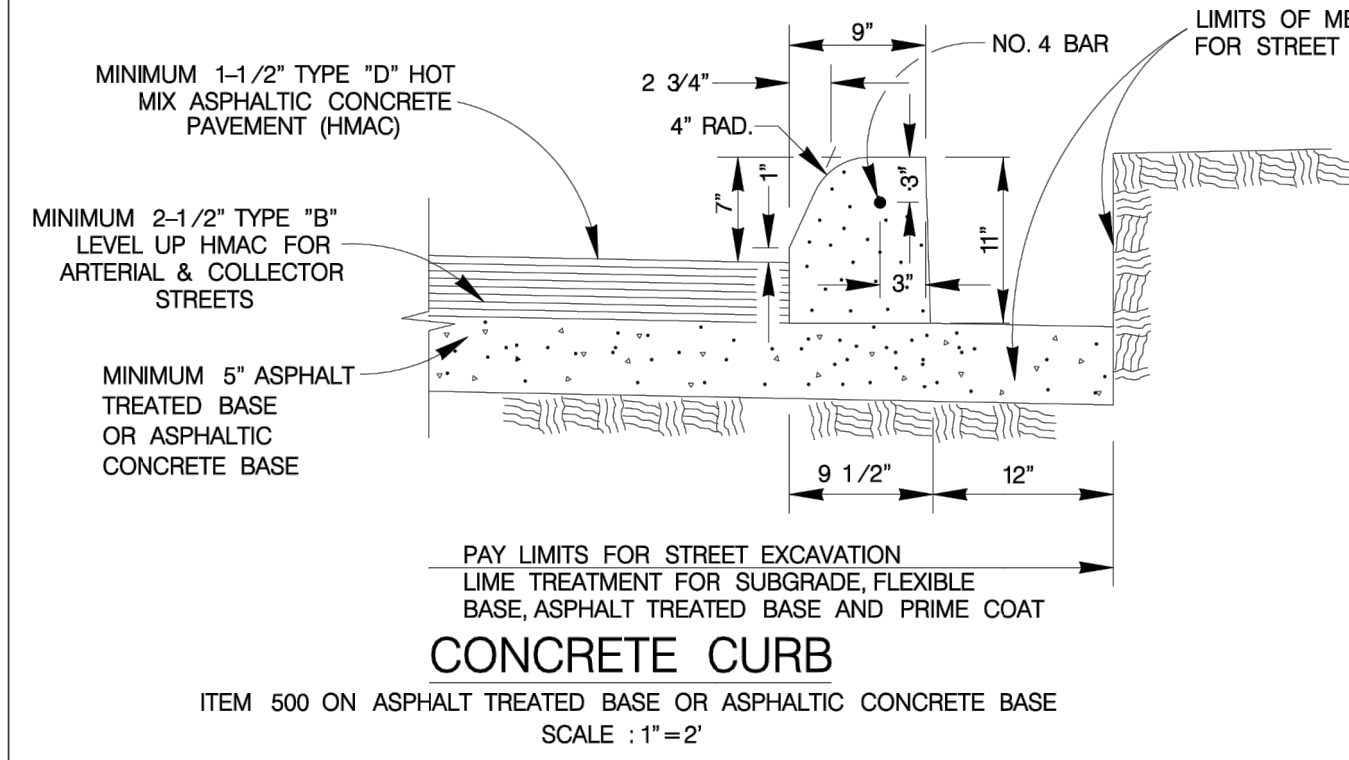
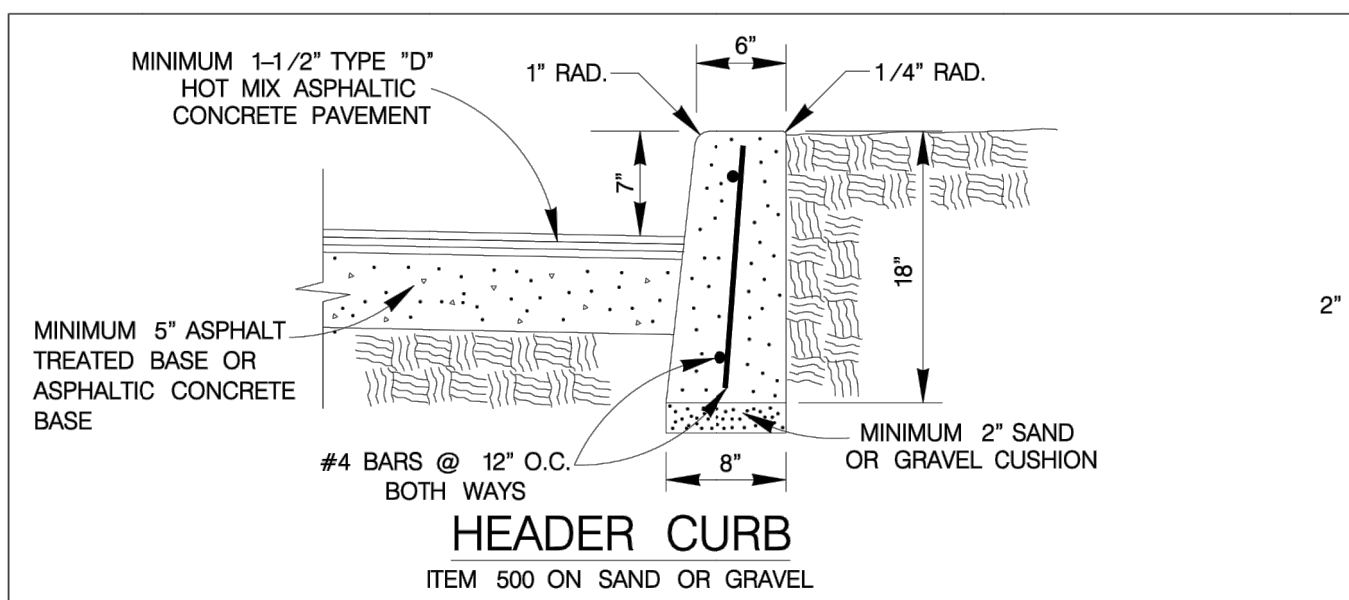
SHEET NO.

C3.5

JANUARY 31, 2024

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L:\Projects\Proj_2021\0879600_Paving_Improvements at Clarence Galm Elementary School - Details.dwg Tue, Jan 20, 2024 11:55:20am epl@csd.sds



MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MISCELLANEOUS CONSTRUCTION STANDARDS I

% SUBMITTAL	PROJECT NO.:	DATE:
DRWN. BY: V. VASQUEZ	DSGN. BY:	CHKD. BY: B.S. HOSSEINI, P.E.
SHEET NO.:		OF

DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

KCI TECHNOLOGIES, INC.
2806 W. BITTERS ROAD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9899
FAX: (210) 641-6440
REGISTRATION #10573 / #101943-65

KCI TECHNOLOGIES

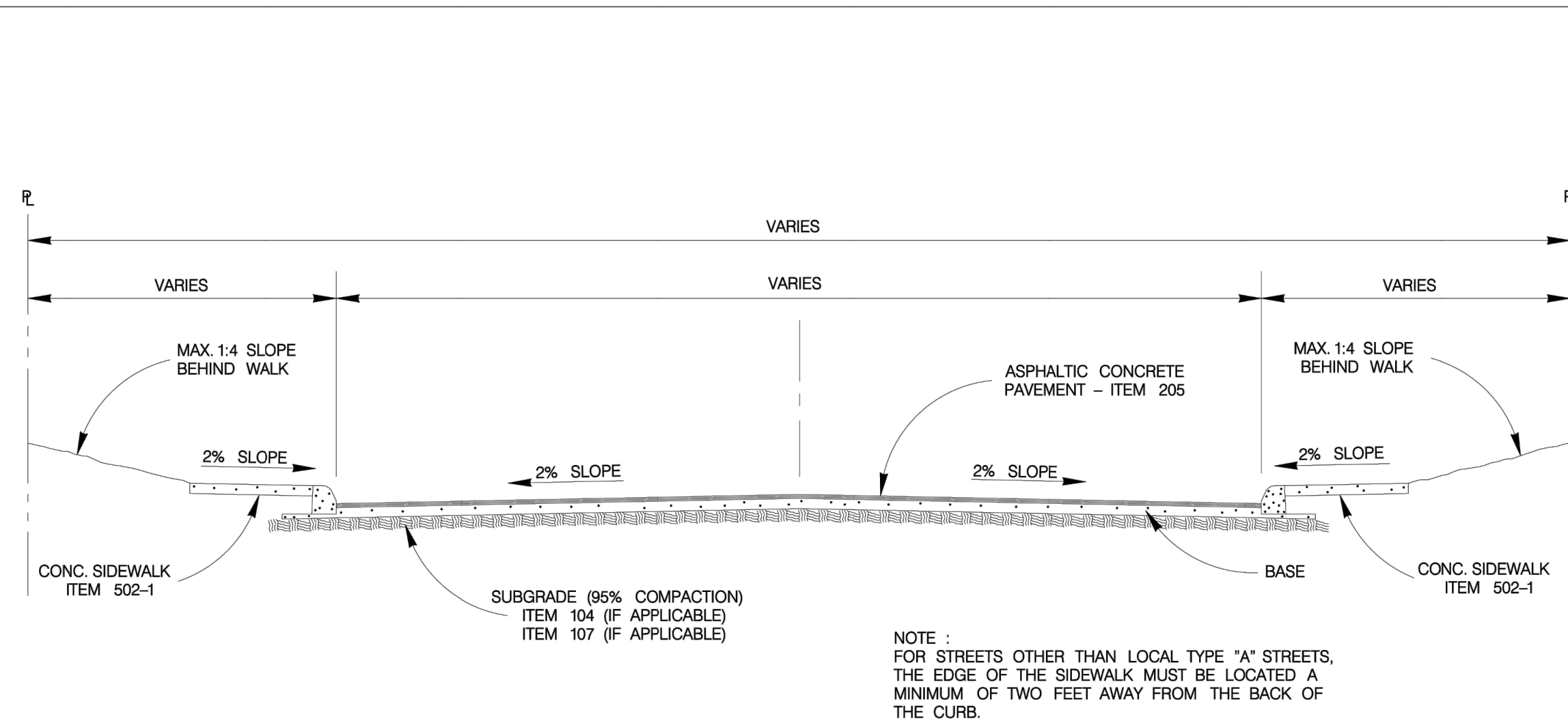
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY: PAUL A. MATSIS, P.E. NO. #105075 ON: JANUARY 31, 2024 DATE

STATE OF TEXAS
PAUL A. MATSIS
105075
PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION

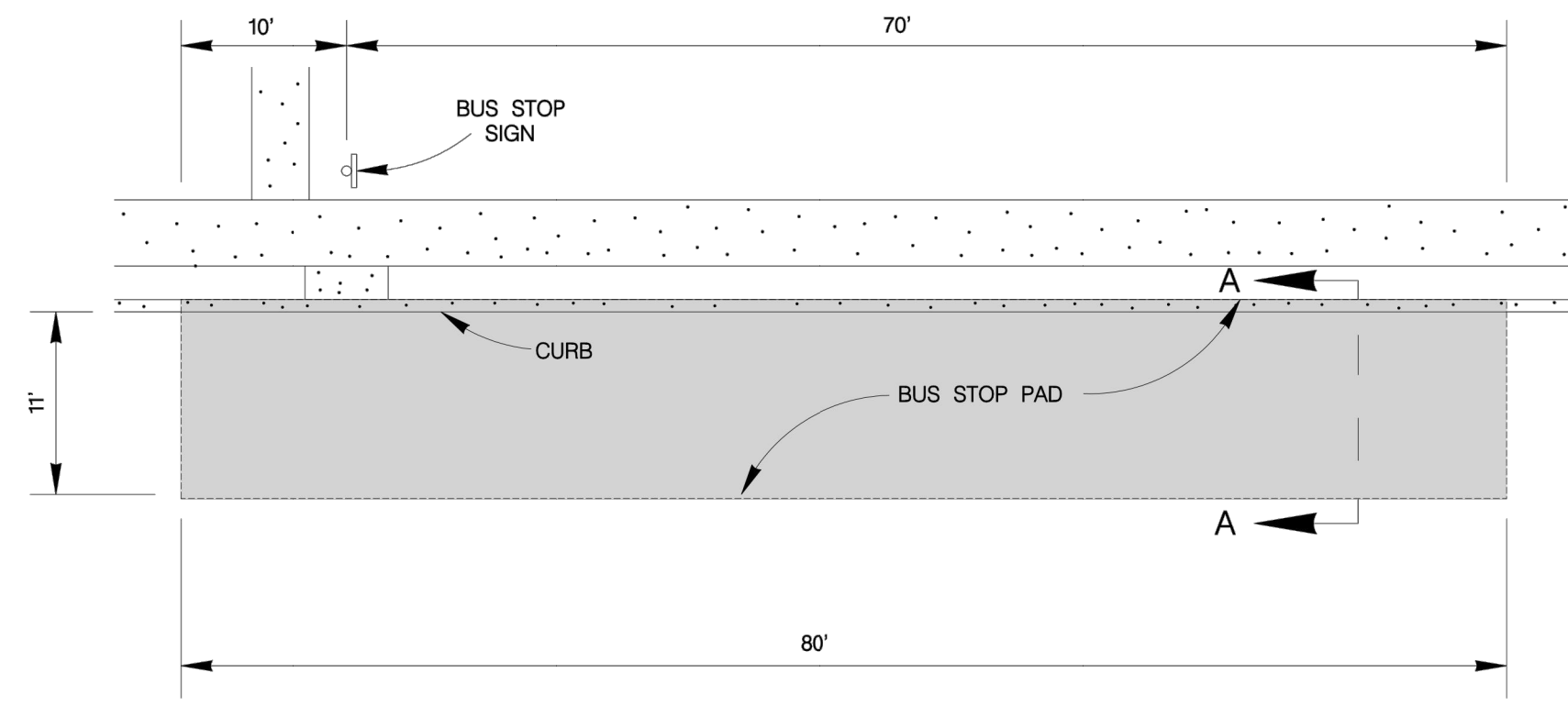
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
COSA STANDARD DETAILS

C3.6
JANUARY 31, 2024

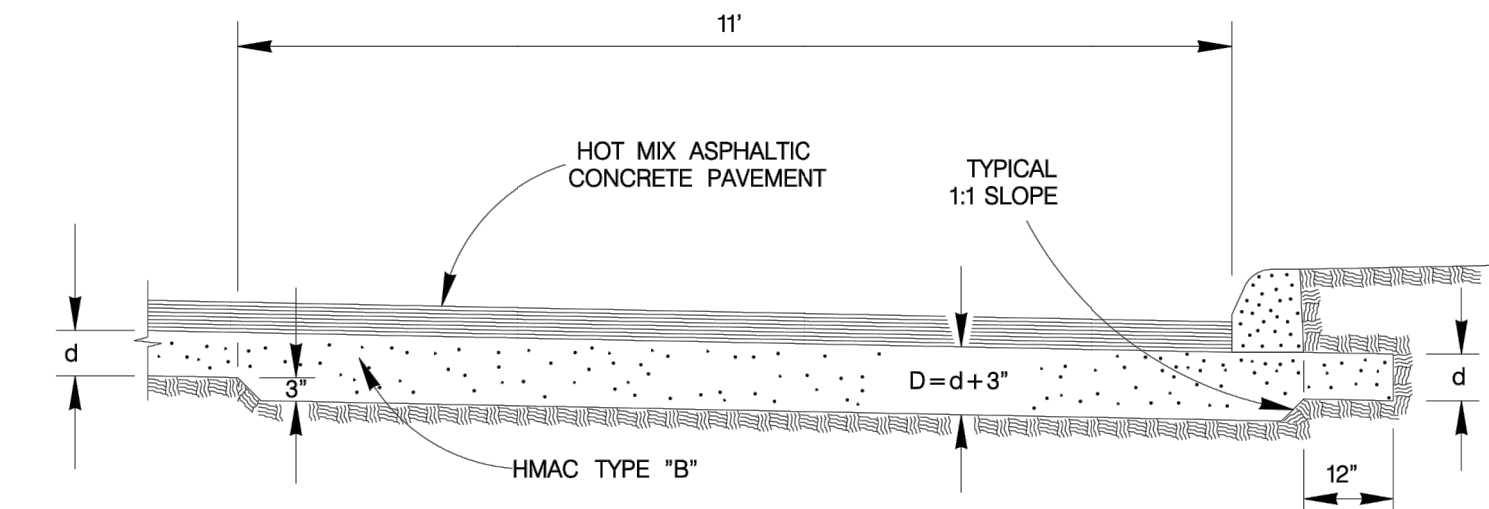


TYPICAL STREET SECTION
SCALE : 1"=8'

NOTE :
FOR STREETS OTHER THAN LOCAL TYPE "A" STREETS,
THE EDGE OF THE SIDEWALK MUST BE LOCATED A
MINIMUM OF TWO FEET AWAY FROM THE BACK OF
THE CURB.

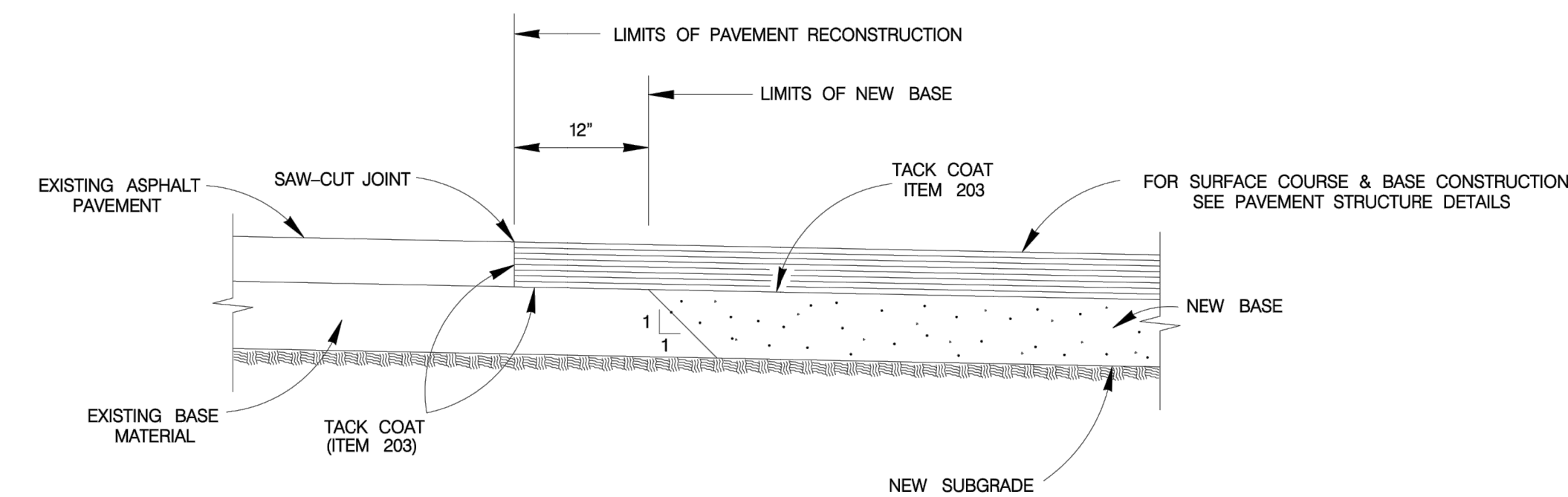


PLAN VIEW
SCALE : 1"=20'

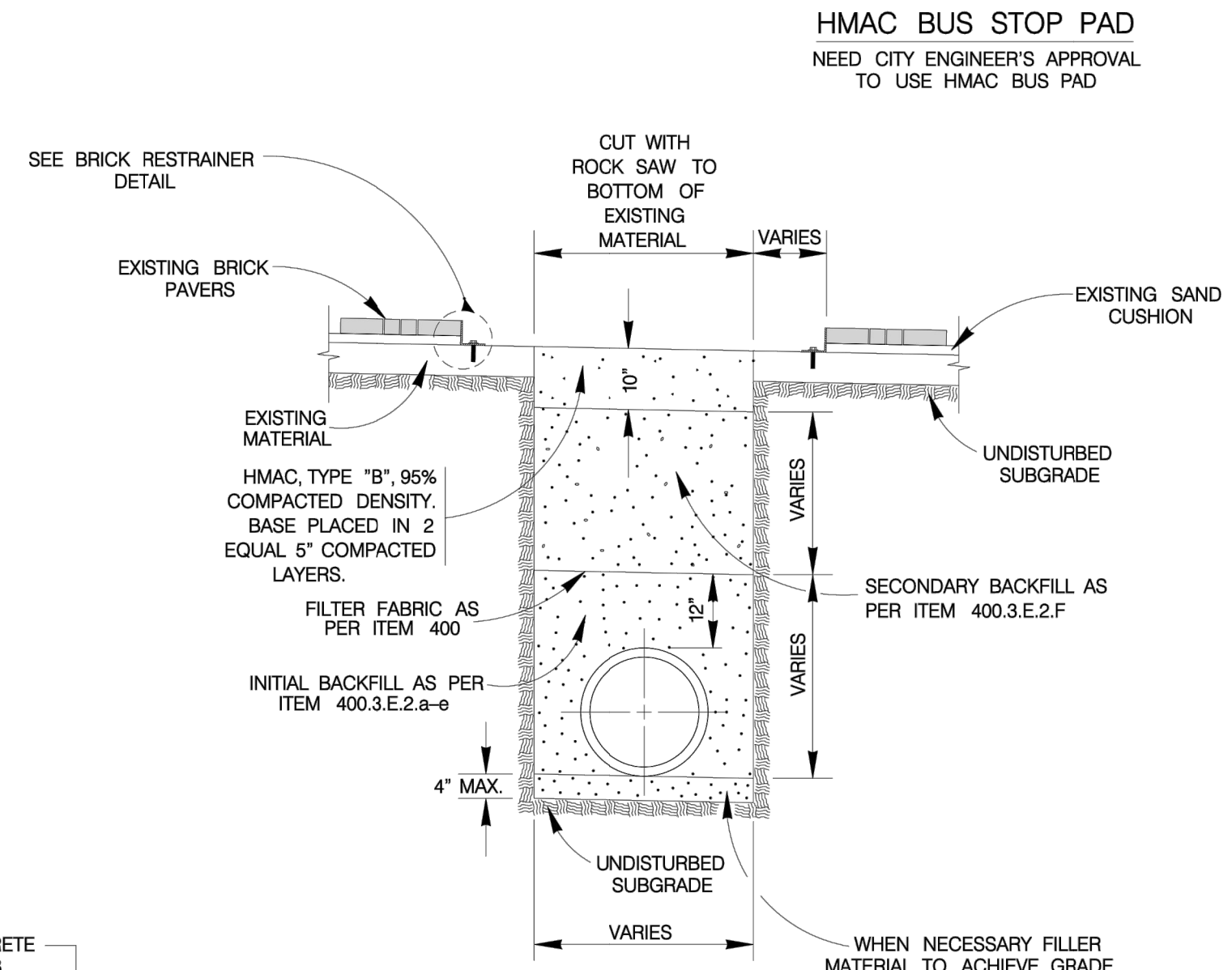


SECTION "A-A"
SCALE : 1"=4'

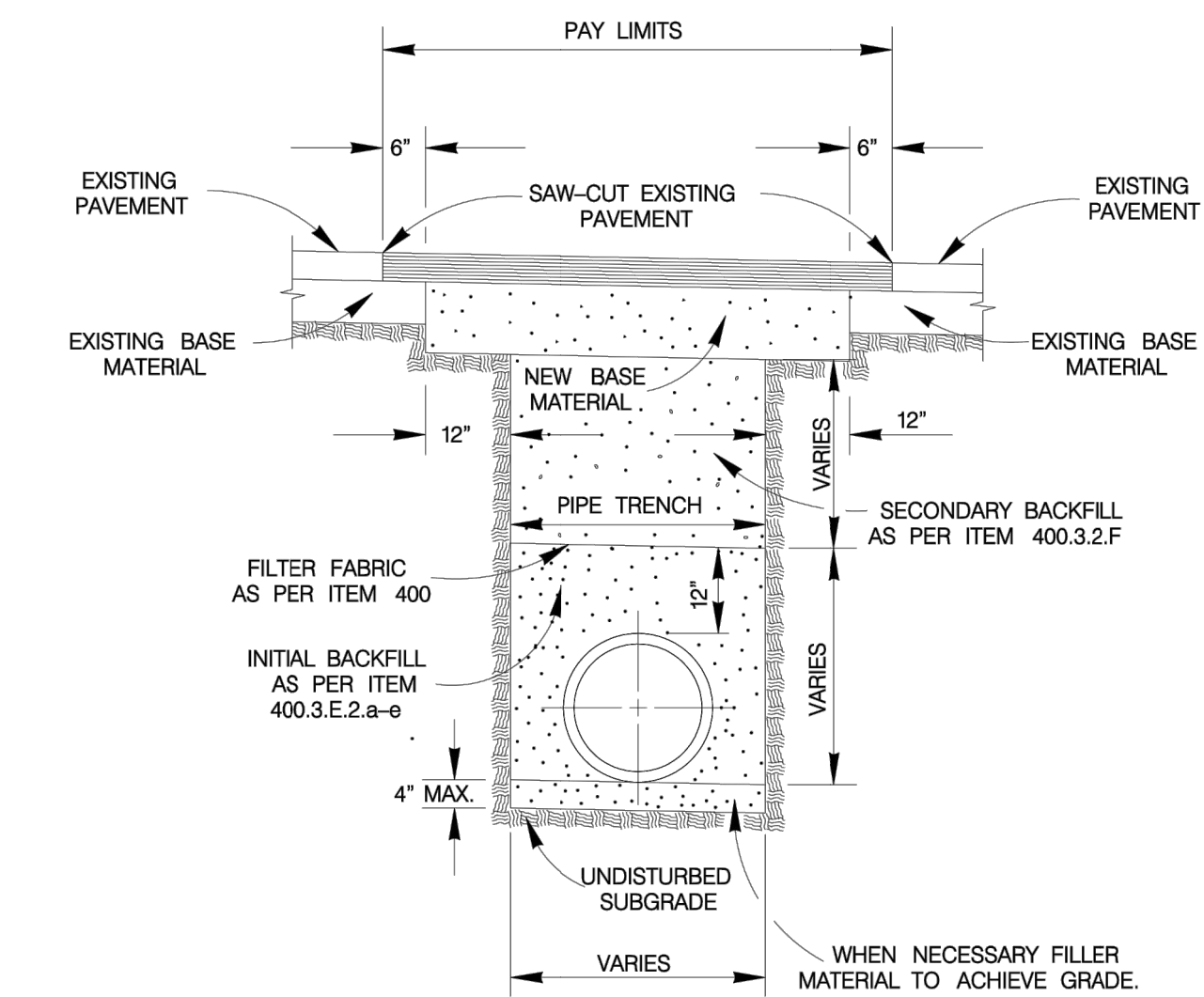
NOTES :
1. EXCAVATION FOR THICKENED PAVEMENT SECTION WILL BE PAID UNDER ITEM NO.104 "STREET EXCAVATION".
2. BASE MATERIALS :
A) IF THE MEASUREMENT FOR THE HMAC MATERIAL IS PER TON, THICKENED PAVEMENT SECTION WILL BE PAID FOR UNDER ITEM NO.205, TYPE "B" - PER TON.
B) IF THE MEASUREMENT FOR THE HMAC MATERIAL IS PER SQUARE YARD, NO EXTRA PAYMENT WILL BE MADE FOR THE THICKENED PAVEMENT.



PAVEMENT JUNCTION DETAILS
SCALE : 1"=2'

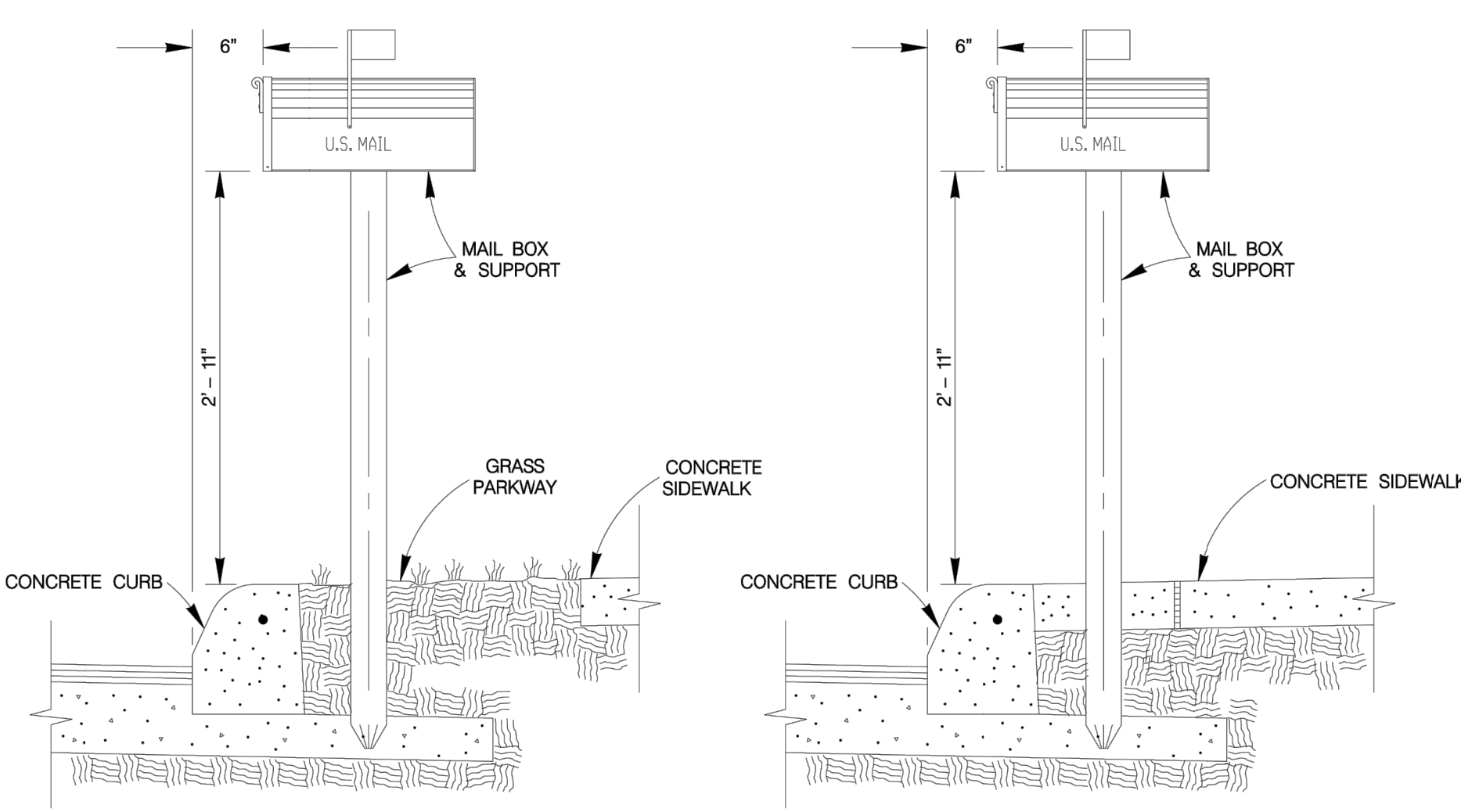


TYPICAL BASE REPLACEMENT FOR BRICK SURFACED STREET SECTION
ITEM 511.3
SCALE : 1"=4'



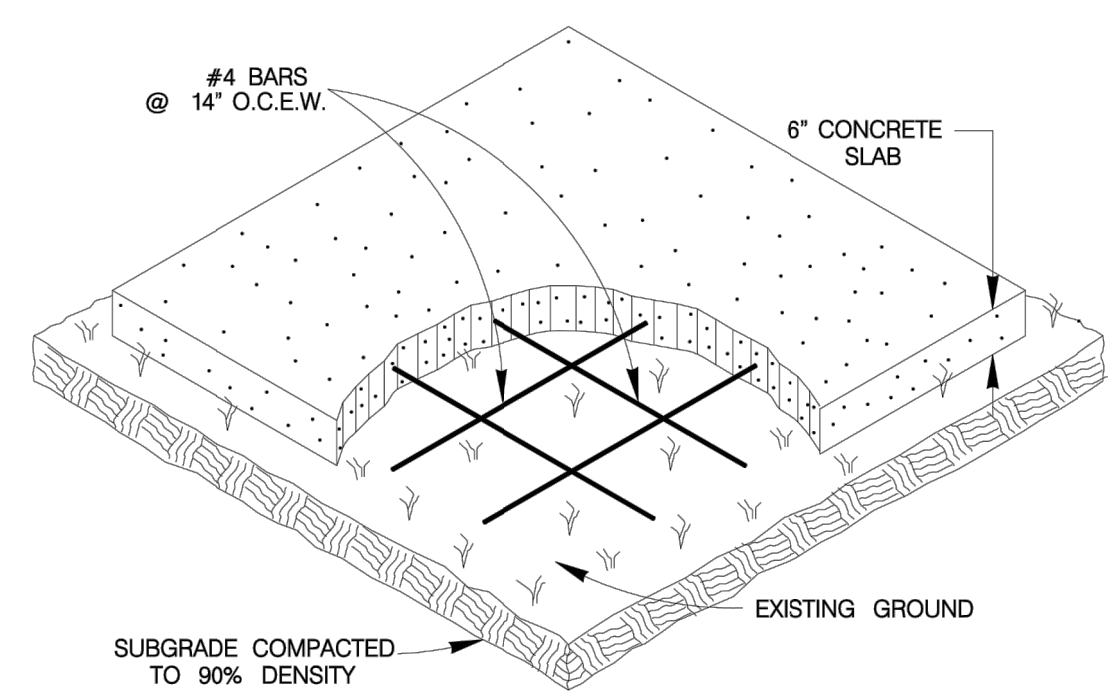
TYPICAL PAVEMENT REPLACEMENT
ITEM 511
SCALE : 1"=4'

NOTES :
1. FOR LOCAL TYPE "A" & "B" STREETS (RESIDENTIAL) USE 6" ASPHALT CONCRETE BASE TYPE "B" WITH 1-1/2" TYPE "D" HOT MIX ASPHALTIC CONCRETE PAVEMENT.
2. FOR ARTERIAL & SECONDARY STREETS (COMMERCIAL) USE 12.5" TYPE "B" HOT MIX ASPHALTIC CONCRETE PAVEMENT LEVELING-UP COURSE & 1-1/2" TYPE "D" HOT MIX ASPHALTIC CONCRETE PAVEMENT SURFACE COURSE.



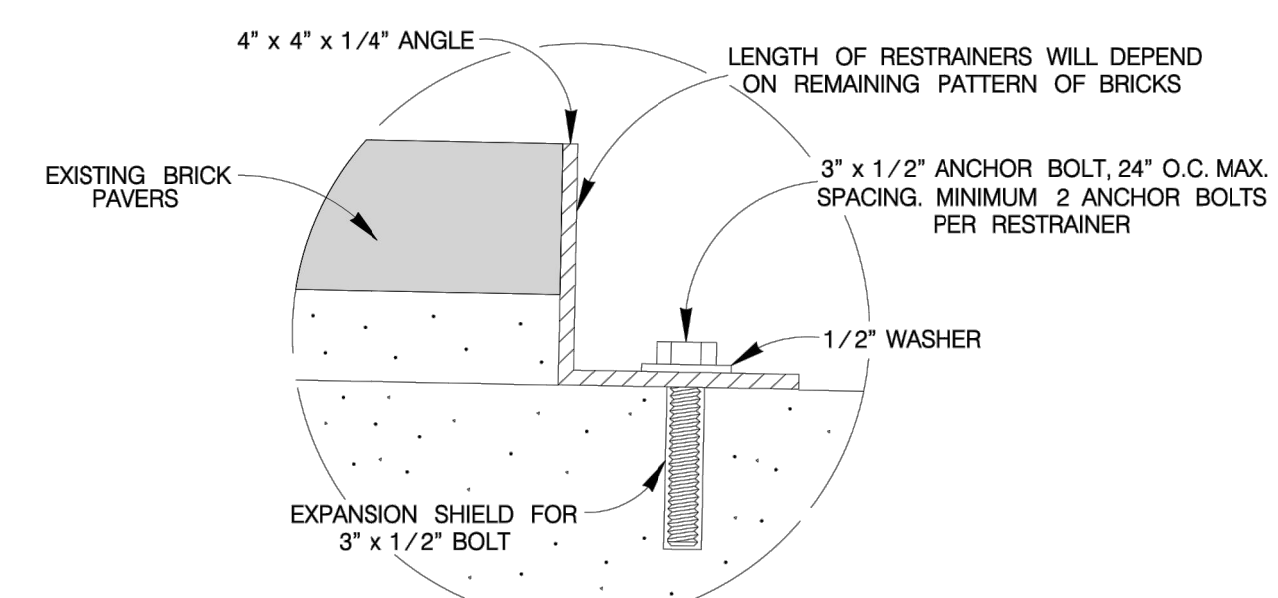
MAIL BOX LOCATION
ITEM 513.1
SCALE : 1"=2'

MAIL BOX PERPENDICULAR TO CURB
SCALE : 1"=2'



COMMUNITY MAIL BOX SLAB
ITEM 513.2
SCALE : 1"=4'

MAIL BOX PAD NOTES :
1. THE CONTRACTOR WILL CONSTRUCT SLABS FOR "TEMPORARY MAIL BOX COLLECTION PAD" FOR THE UNITED STATES POSTAL SERVICE WITH LOCATIONS AND SIZES SPECIFIED BY THE CITY ENGINEER DURING CONSTRUCTION.
2. THE CONSTRUCTION OF SLABS SHALL CONFORM TO ITEM 513 "REMOVING AND RELOCATING MAILBOXES".
3. PAYMENT WILL BE MADE UNDER ITEM 513.2 "COMMUNITY MAILBOX SLAB - PER SQUARE YARD".
4. UNIT PRICE WILL INCLUDE REMOVAL OF "TEMPORARY MAIL BOX COLLECTION PAD" SLABS AT THE END OF THE PROJECT. NO SEPARATE PAY ITEM.



BRICK RESTRAINER DETAIL
SCALE : 1"=6'

FEBRUARY 2010
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MISCELLANEOUS CONSTRUCTION STANDARDS II

% SUBMITTAL	PROJECT NO. _____	DATE: _____
DRWN. BY: V. VASQUEZ	DSGN. BY: _____	CHKD. BY: R.S. HOSSEINI, P.E.
SHEET NO. _____		OF _____

DESIGNED BY:	PAM	DRAWN BY:	ASJ	APPROVED:	PAM
<p style="text-align: center;">KCI TECHNOLOGIES, INC.</p> <p style="text-align: center;">2805 W. BITTERS ROAD, SUITE 218 SAN ANTONIO, TEXAS 78248 PHONE: (210) 641-9699 FAX: (210) 641-6440 REGISTRATION #10573 / #101943-65</p>					
<p style="text-align: center;">NORTHSIDE INDEPENDENT SCHOOL DISTRICT CLARENCE GALT ELEMENTARY SCHOOL PAVING AND DRAINAGE IMPROVEMENTS COSA STANDARD DETAILS</p>					
<p style="font-size: 2em; font-weight: bold;">C3.7</p> <p style="font-size: 0.8em;">JANUARY 31, 2024</p>					

L:\Projects\Proj_2021\0879600_Paving_Improvements at Clarence Galt Elementary School - Standards Details.dwg Tue, Jan 23, 2024 11:55:31am epj@kci.com



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY: PAUL A. MATTHEWS, P.E. NO. #105075 ON: JANUARY 31, 2024 DATE



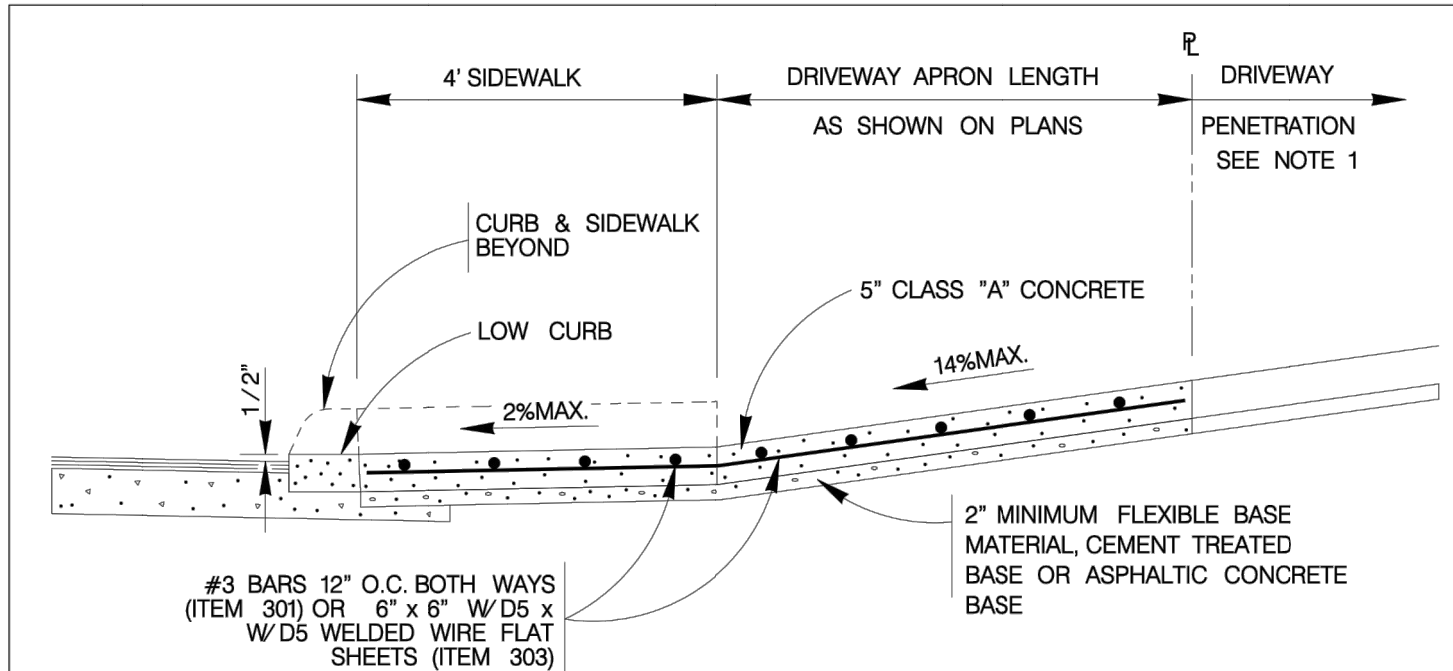
REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
 CLARENCE GALT ELEMENTARY SCHOOL
 PAVING AND DRAINAGE IMPROVEMENTS
 COSA DRIVEWAY DETAILS

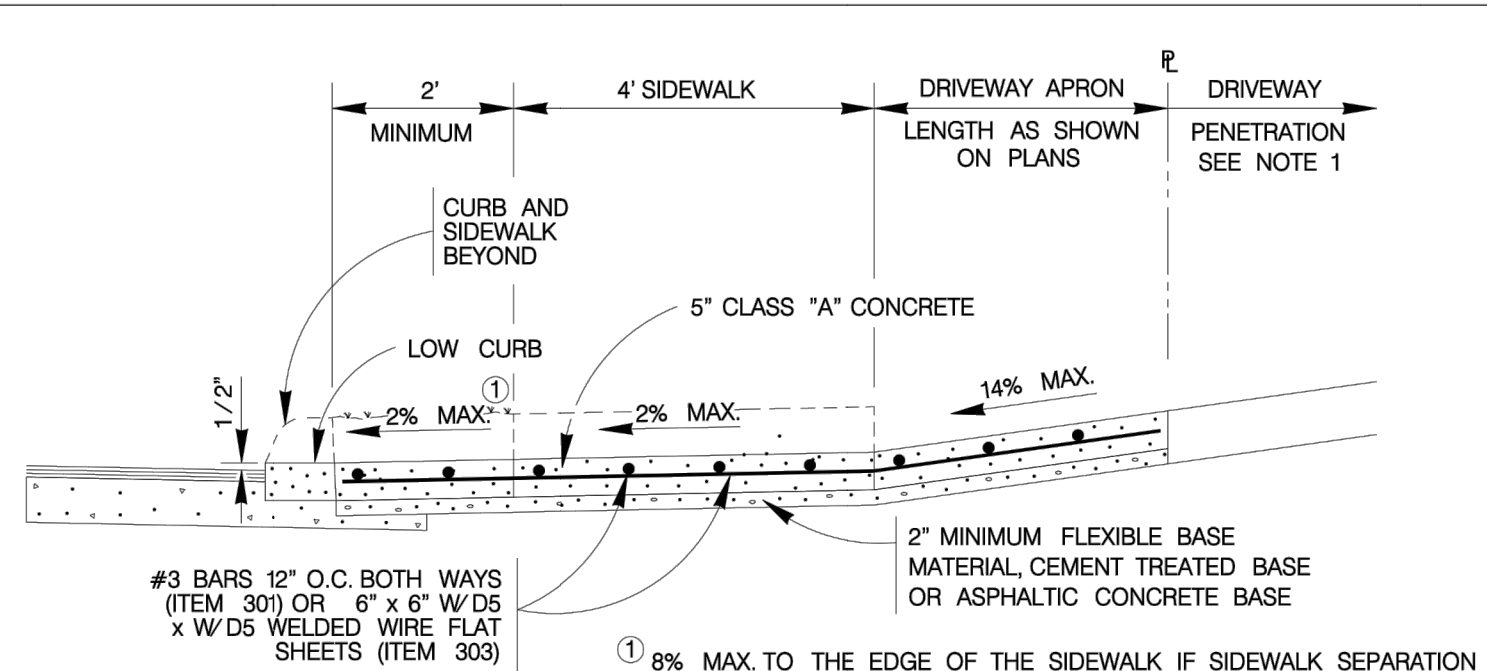
SHEET NO.

C3.8

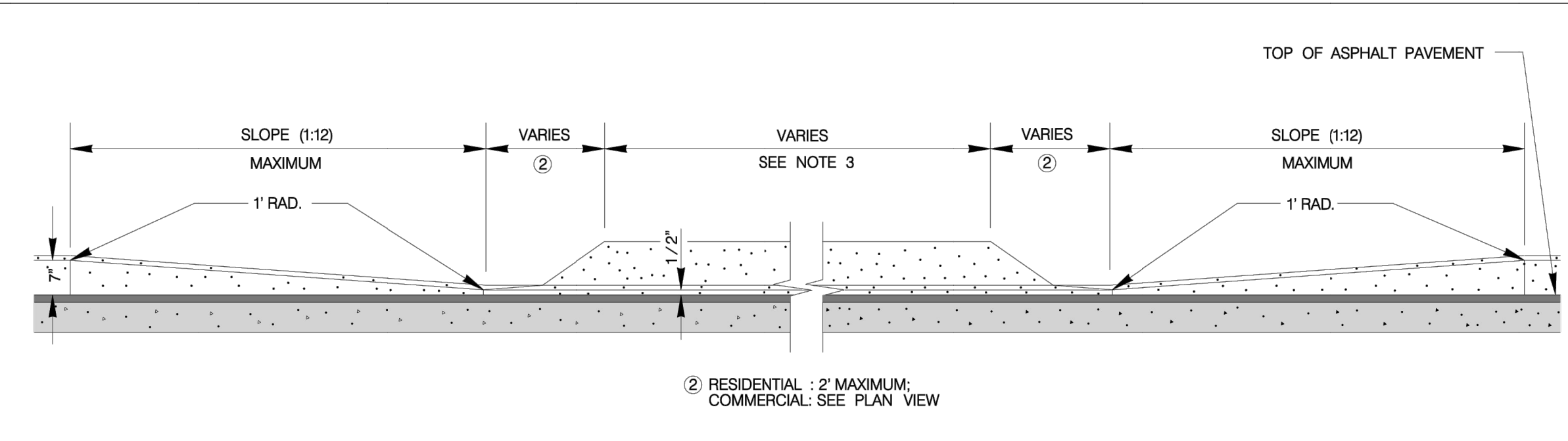
JANUARY 31, 2024



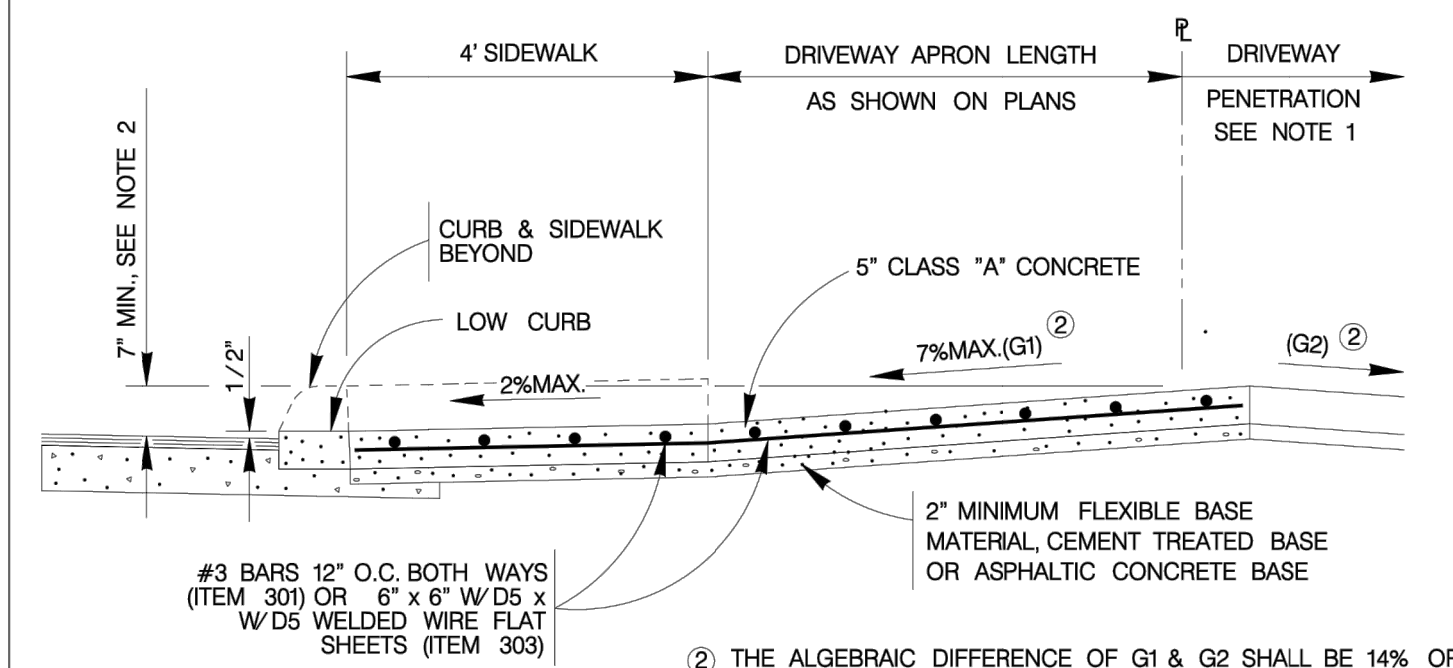
TYPICAL RESIDENTIAL DRIVEWAY SECTION
 WITH SIDEWALK ABUTTING CURB
 ITEM 503.1



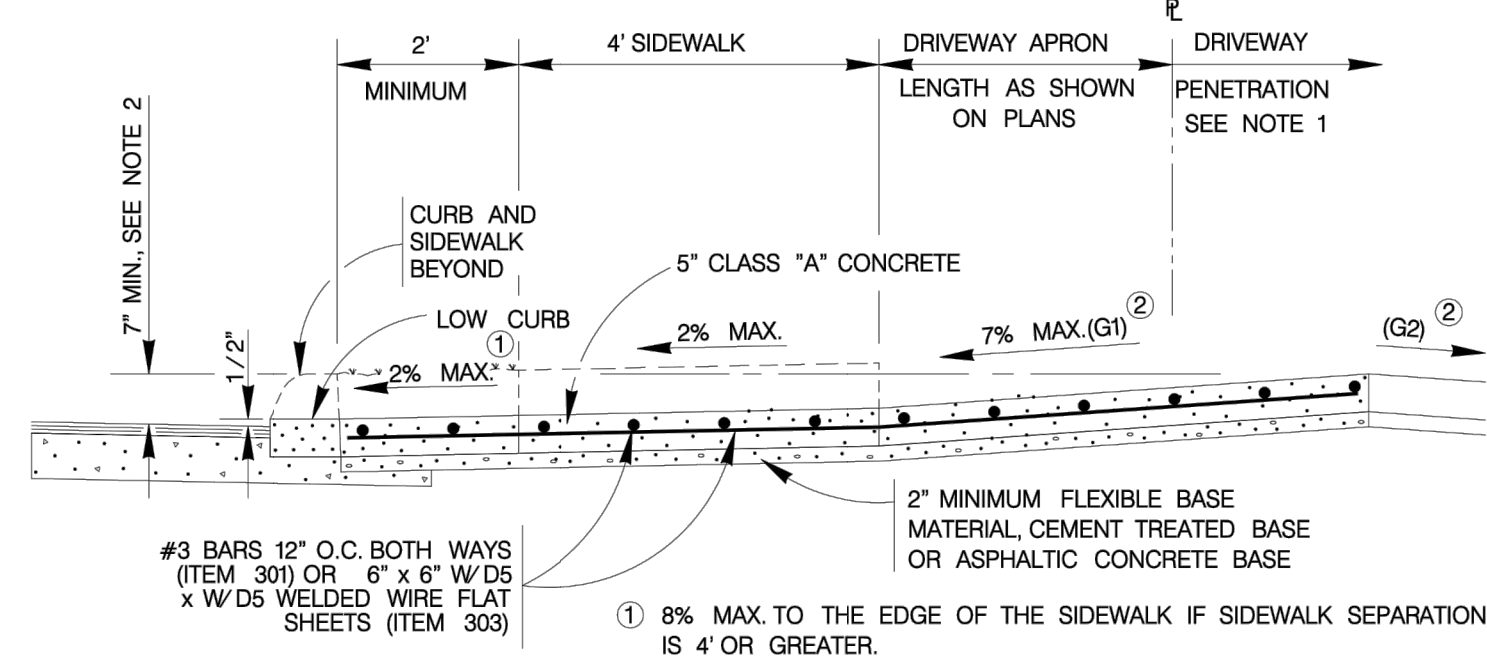
TYPICAL RESIDENTIAL DRIVEWAY SECTION
 WITH SIDEWALK SEPARATED FROM CURB
 ITEM 503.1



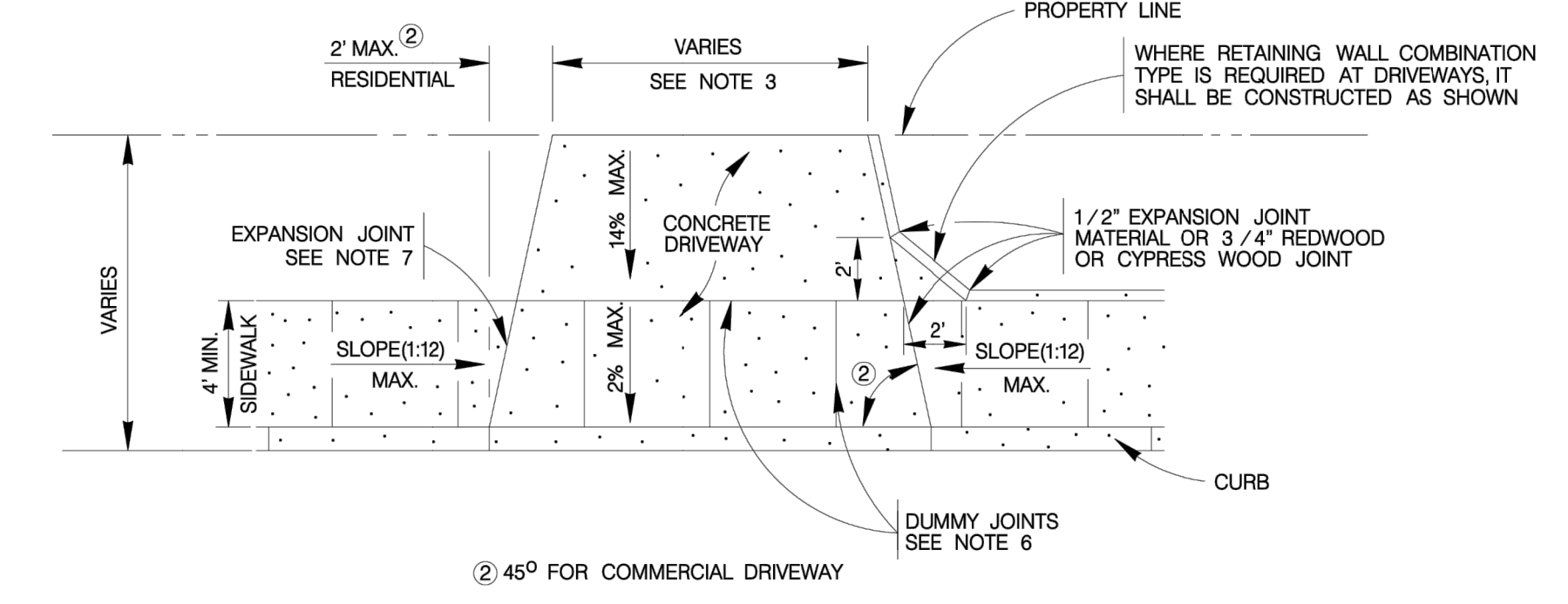
CURB PROFILE AT DRIVEWAY
 WITH SIDEWALK ABUTTING CURB



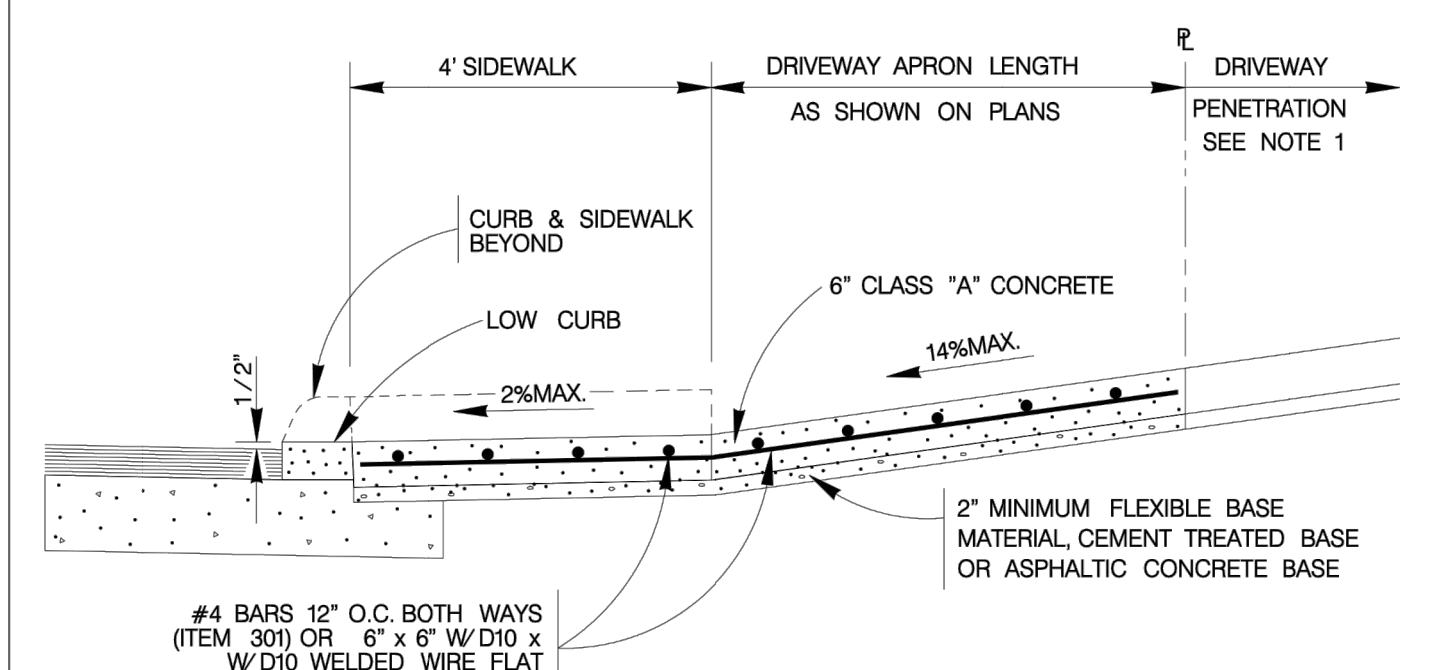
TYPICAL RESIDENTIAL DRIVEWAY SECTION
 WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS ABUTTING CURB
 ITEM 503.1



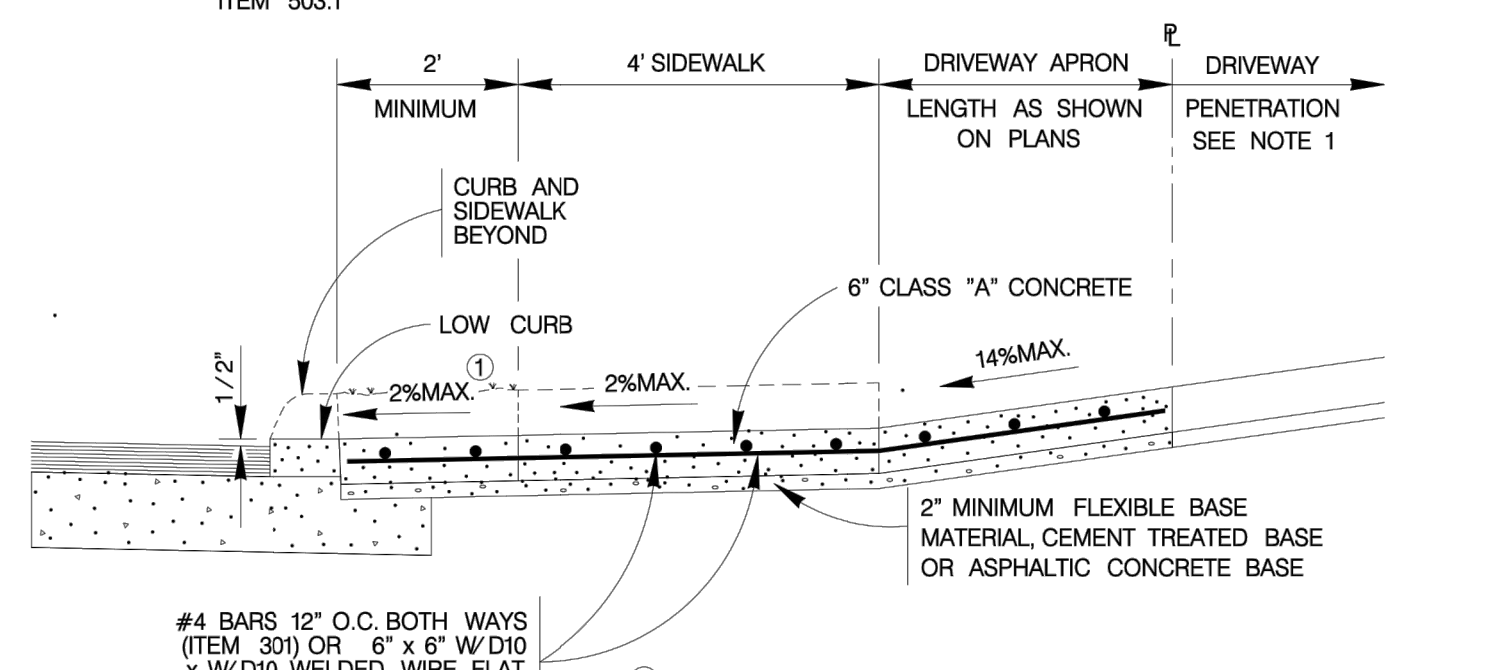
TYPICAL RESIDENTIAL DRIVEWAY SECTION
 WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS SEPARATED FROM CURB
 ITEM 503.1



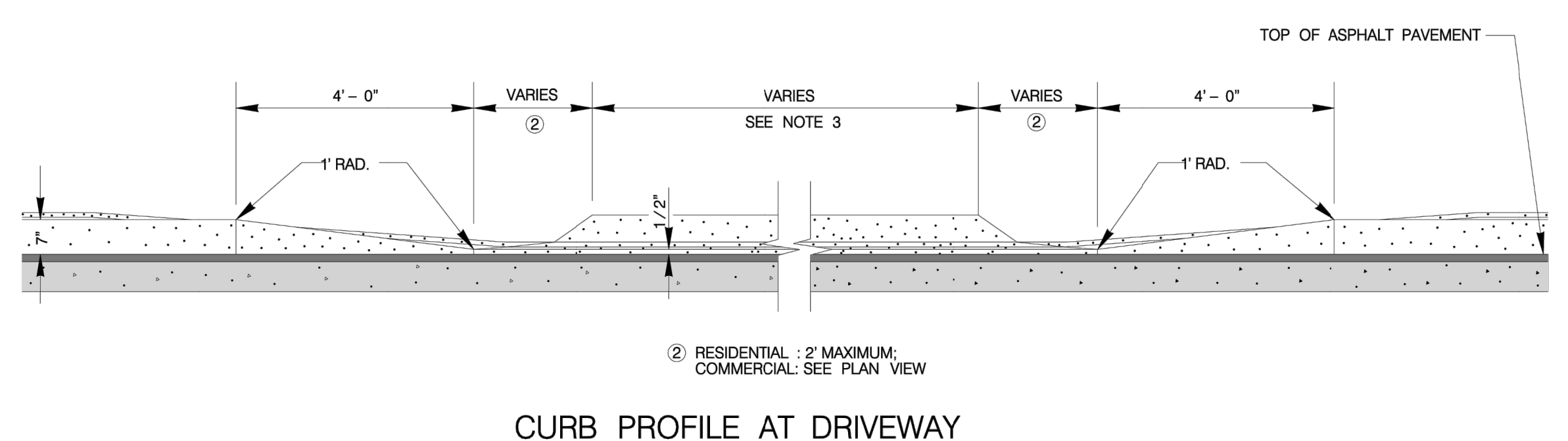
TYPICAL DRIVEWAY PLAN VIEW
 WITH SIDEWALK ABUTTING CURB



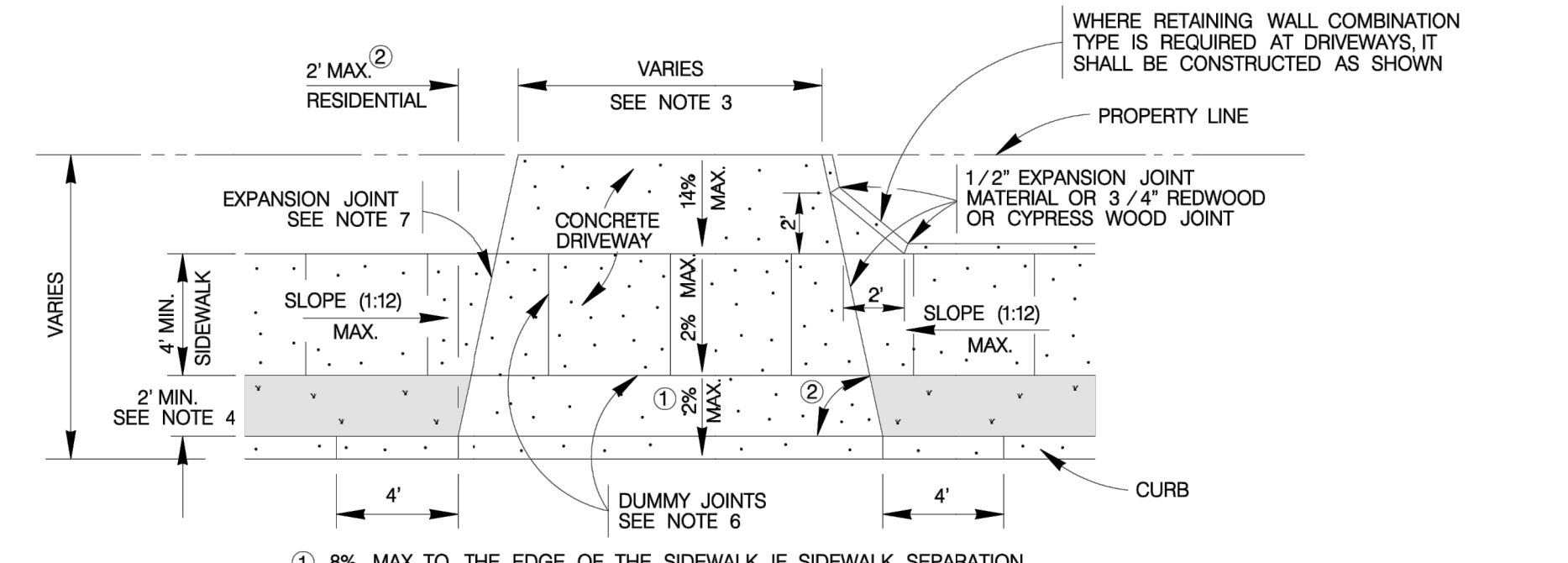
TYPICAL COMMERCIAL DRIVEWAY SECTION
 WITH SIDEWALK ABUTTING CURB
 ITEM 503.2



TYPICAL COMMERCIAL DRIVEWAY SECTION
 WITH SIDEWALK SEPARATED FROM CURB
 ITEM 503.2



CURB PROFILE AT DRIVEWAY
 WITH SIDEWALK SEPARATED FROM CURB

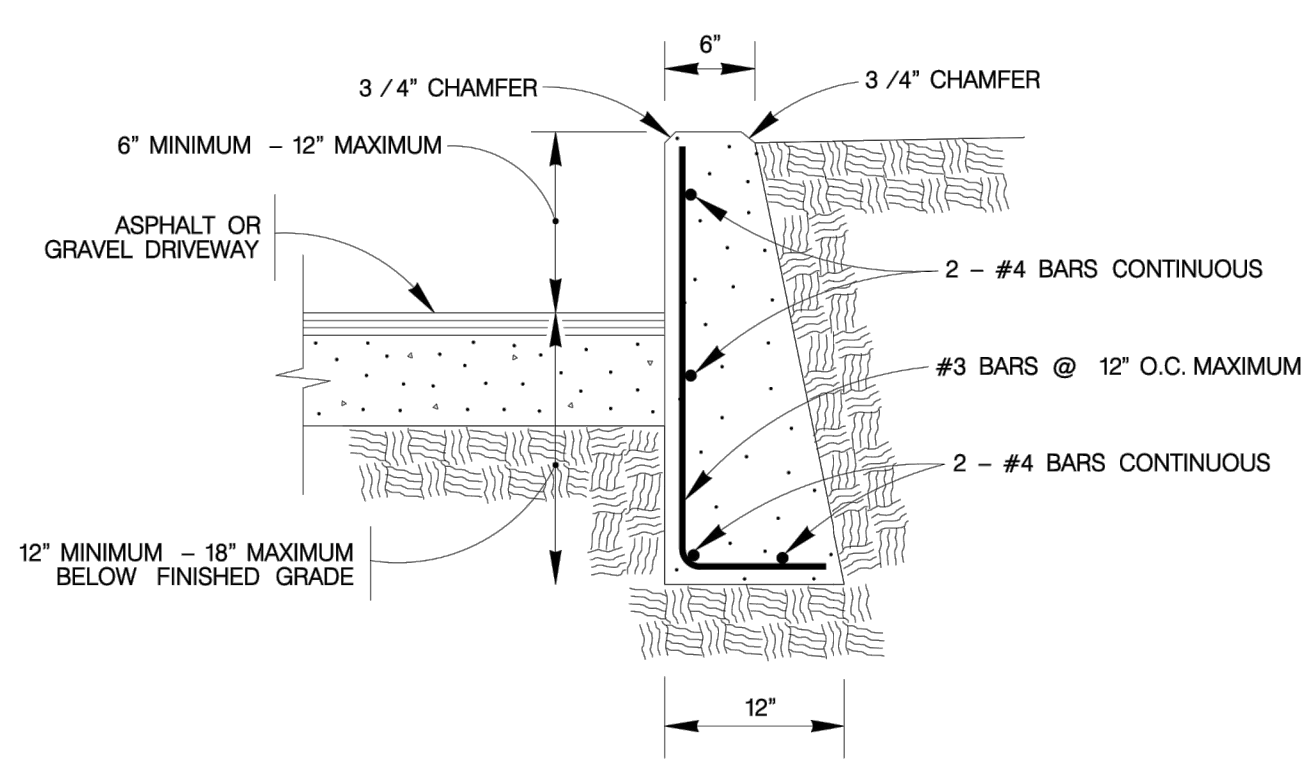


TYPICAL DRIVEWAY PLAN VIEW
 WITH SIDEWALK SEPARATED FROM CURB

CONCRETE DRIVEWAY NOTES

- DRIVEWAY PENETRATION REFERS TO A PORTION OF THE DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE. THIS PORTION OF THE DRIVEWAY SHALL BE PAID FOR UNDER THE FOLLOWING ITEMS AS MAY APPLY:
 A) CONCRETE DRIVEWAY PAID FOR UNDER ITEM NO. 503.1 OR 503.2
 B) ASPHALTIC CONCRETE DRIVEWAY PAID FOR UNDER ITEM NO. 503.4 AND SHALL INCLUDE A MINIMUM OF 1" ASPHALT TYPE 'D' & 6" FLEXIBLE BASE
 C) GRAVEL DRIVEWAY PAID FOR UNDER ITEM NO. 503.5 AND SHALL INCLUDE A MINIMUM OF 6" FLEXIBLE BASE
- 7" MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY PENETRATION ON PRIVATE PROPERTY.
- THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

TYPE	MINIMUM	MAXIMUM
RESIDENTIAL	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	24'	30'
- FOR LOCAL TYPE "A" STREETS, SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 2' FROM THE BACK OF CURB.
- FOR OTHER THAN LOCAL TYPE "A" STREETS, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND SEPARATED A MINIMUM OF 2' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
- DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB, AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS, SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
- A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/8" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT.
- SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.



NOTE:
 1. COST OF REINFORCEMENT TO BE INCLUDED IN UNIT COST OF ITEM 307.1.
 2. CONCRETE RETAINING WALL COMBINATION TYPE SHALL BE USED FOR CONCRETE DRIVEWAYS.

DRIVEWAY - CONCRETE RETAINING WALL
 ON COMPACTED SUBGRADE
 ITEM 307.1

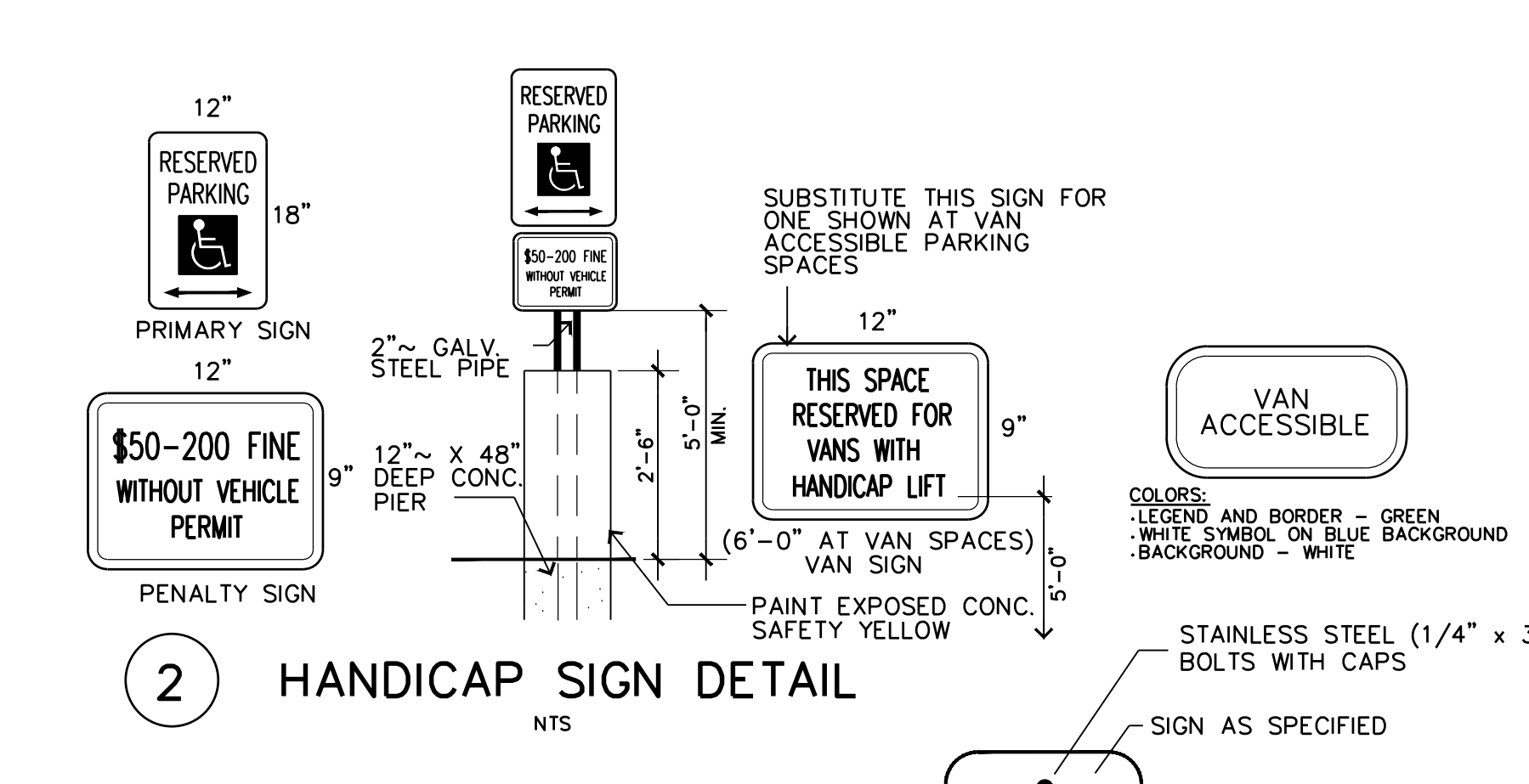
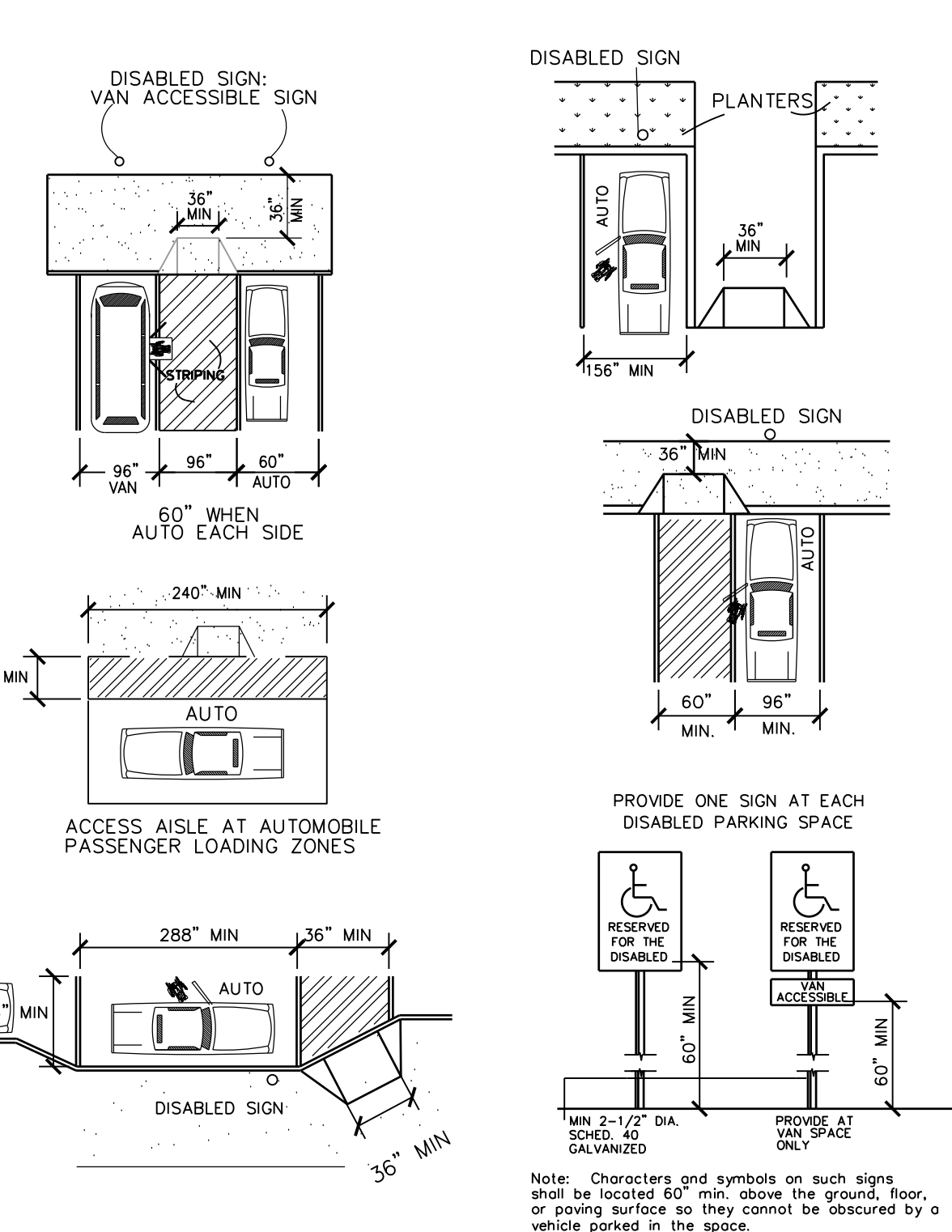
MAY 2009
 CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CONCRETE DRIVEWAY STANDARDS

% SUBMITTAL PROJECT NO.: _____ DATE: _____
 DRWN. BY: V. VASQUEZ DSGN. BY: _____ CHKD. BY: R.S. HOSSEINI, P.E. SHEET NO.: _____ OF _____

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PROJECT ADA NOTE:
HANDICAP SYMBOL PAINTED IN THE FIELD ON THE PAVEMENT FOR EACH ADA SPACE SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALLATION. LOCATION ON PLAN VIEW OF THE SITE AND GRADING PLAN IS REPRESENTATIVE OF WHERE THE ADA PARKING SPOTS SHOULD BE. ALSO, "NO PARKING" LETTERING IN THE STRIPED ACCESS AISLE SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALLATION.

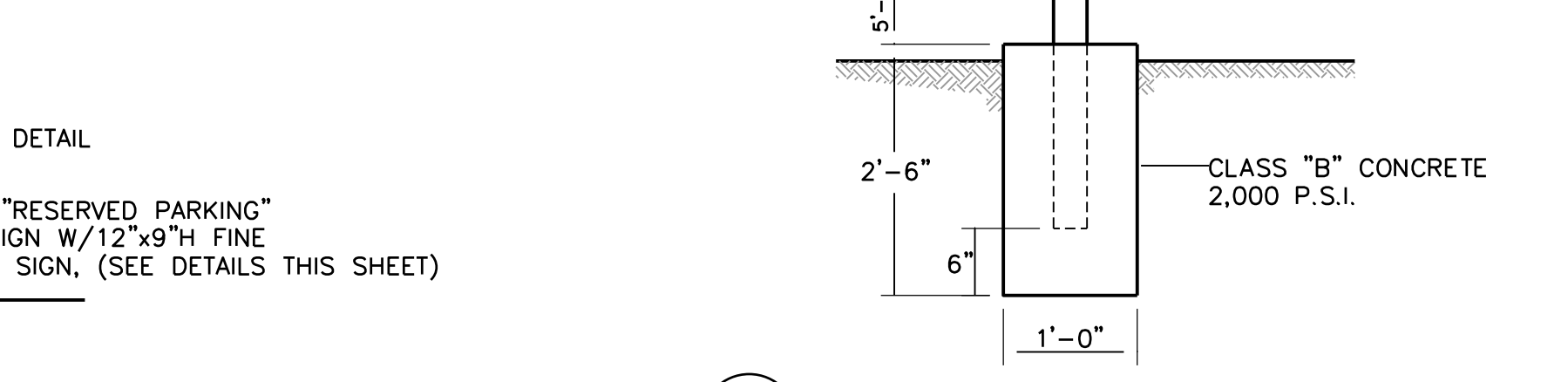
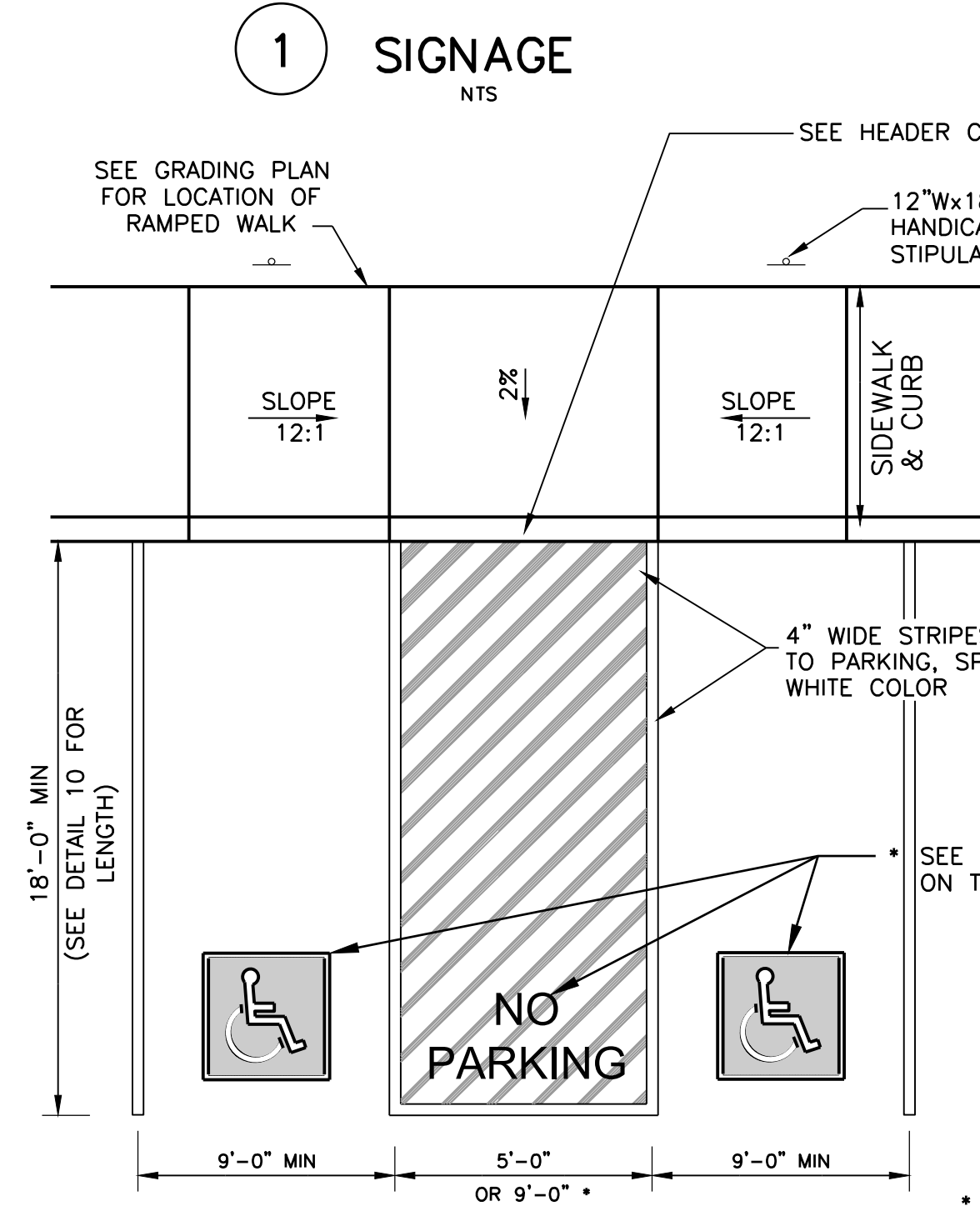
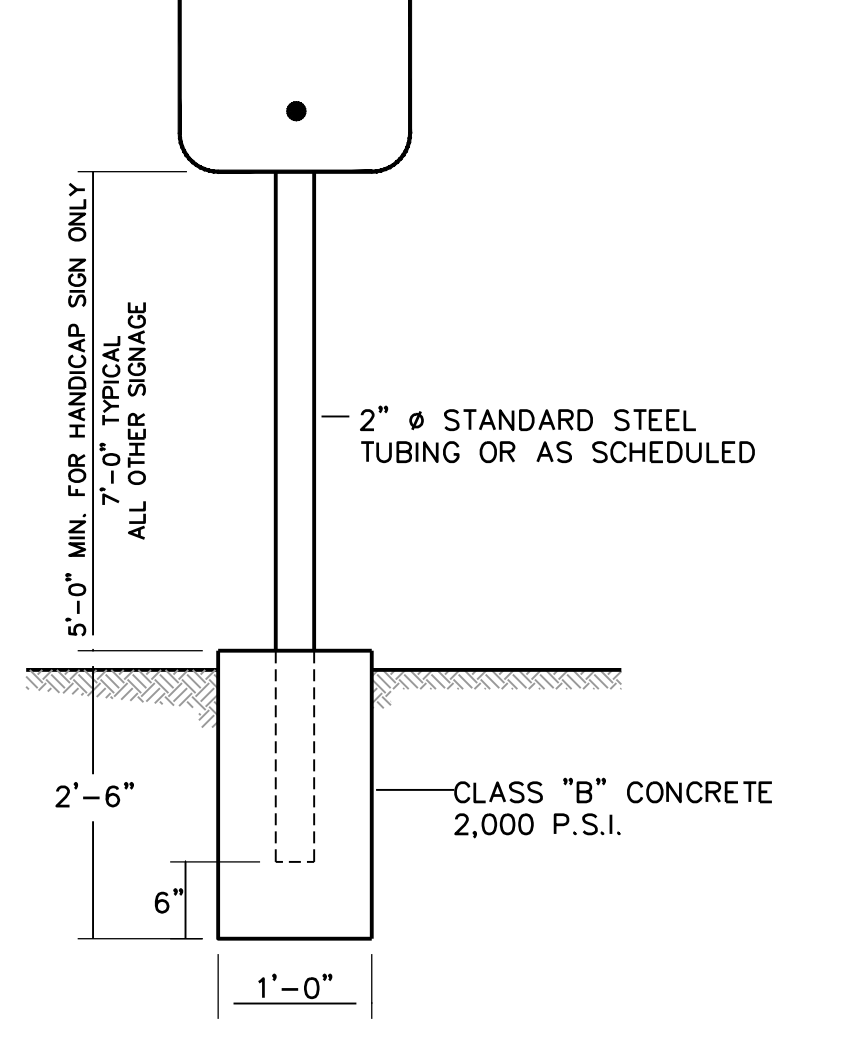
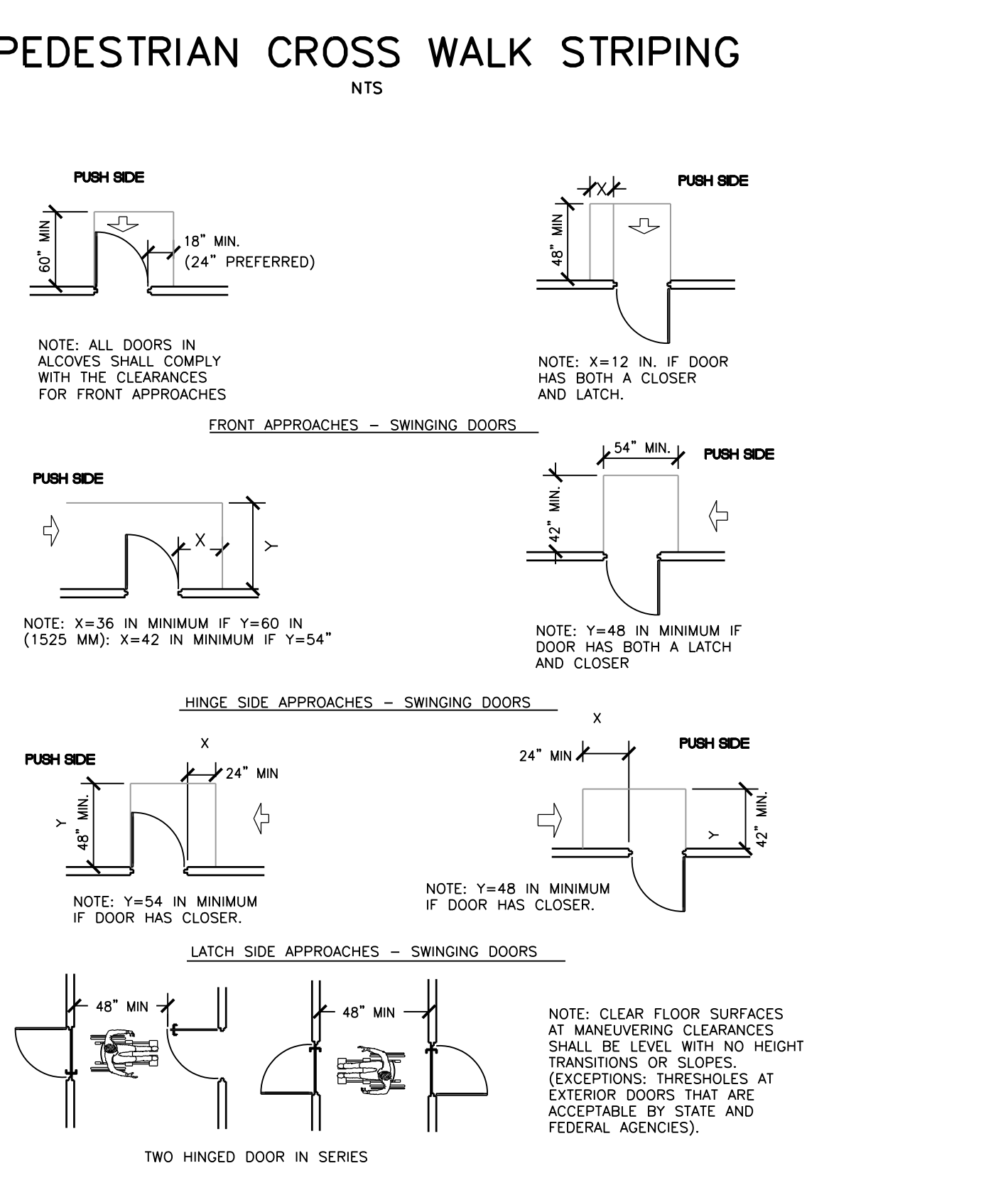
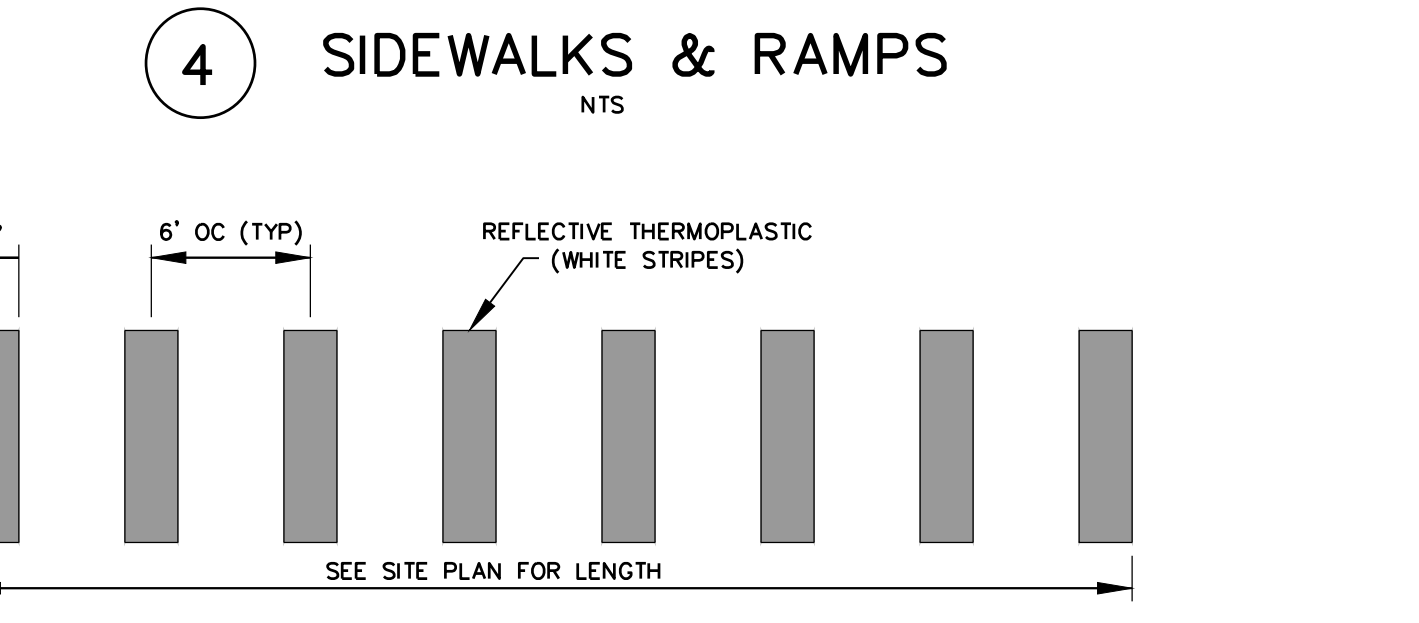
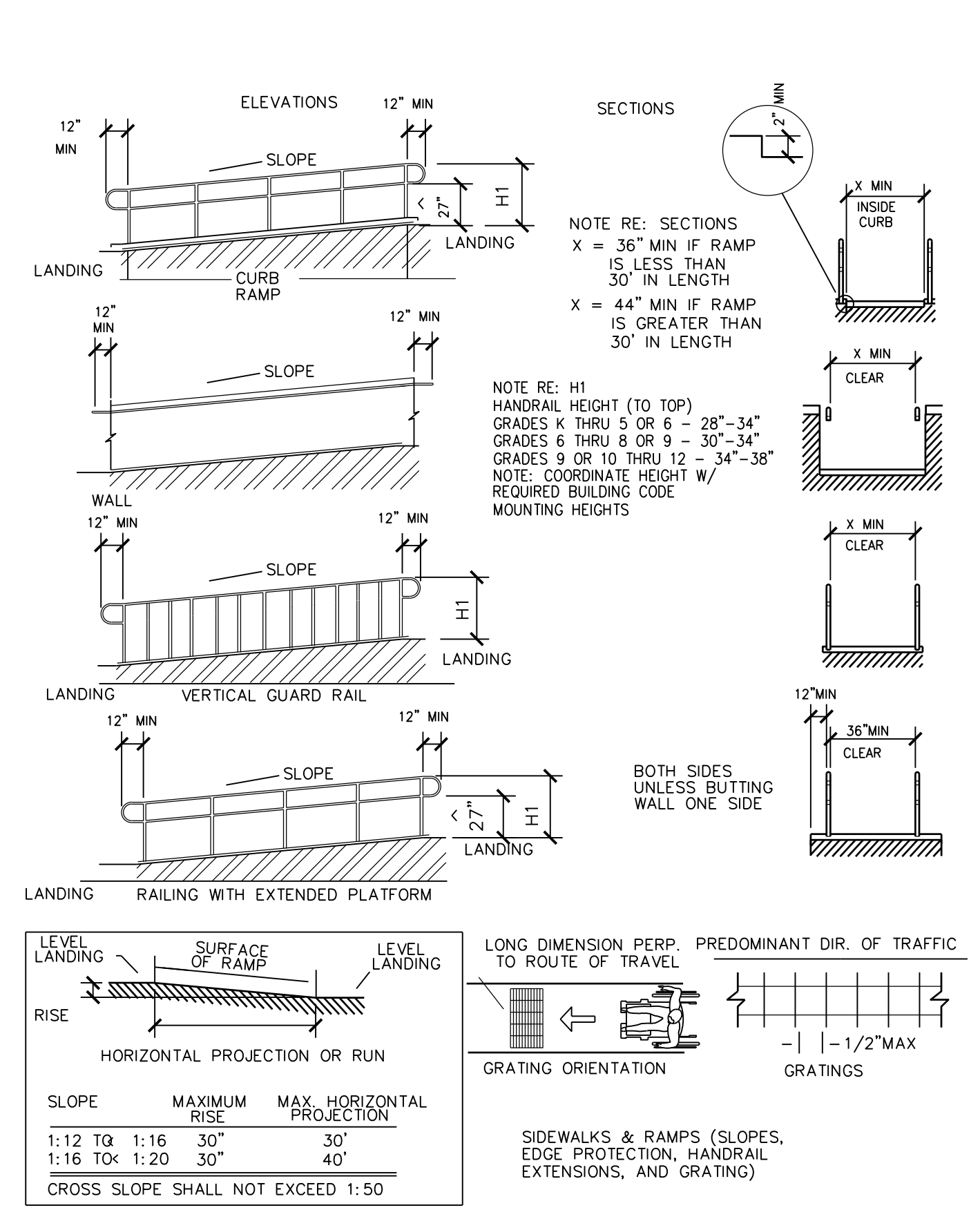
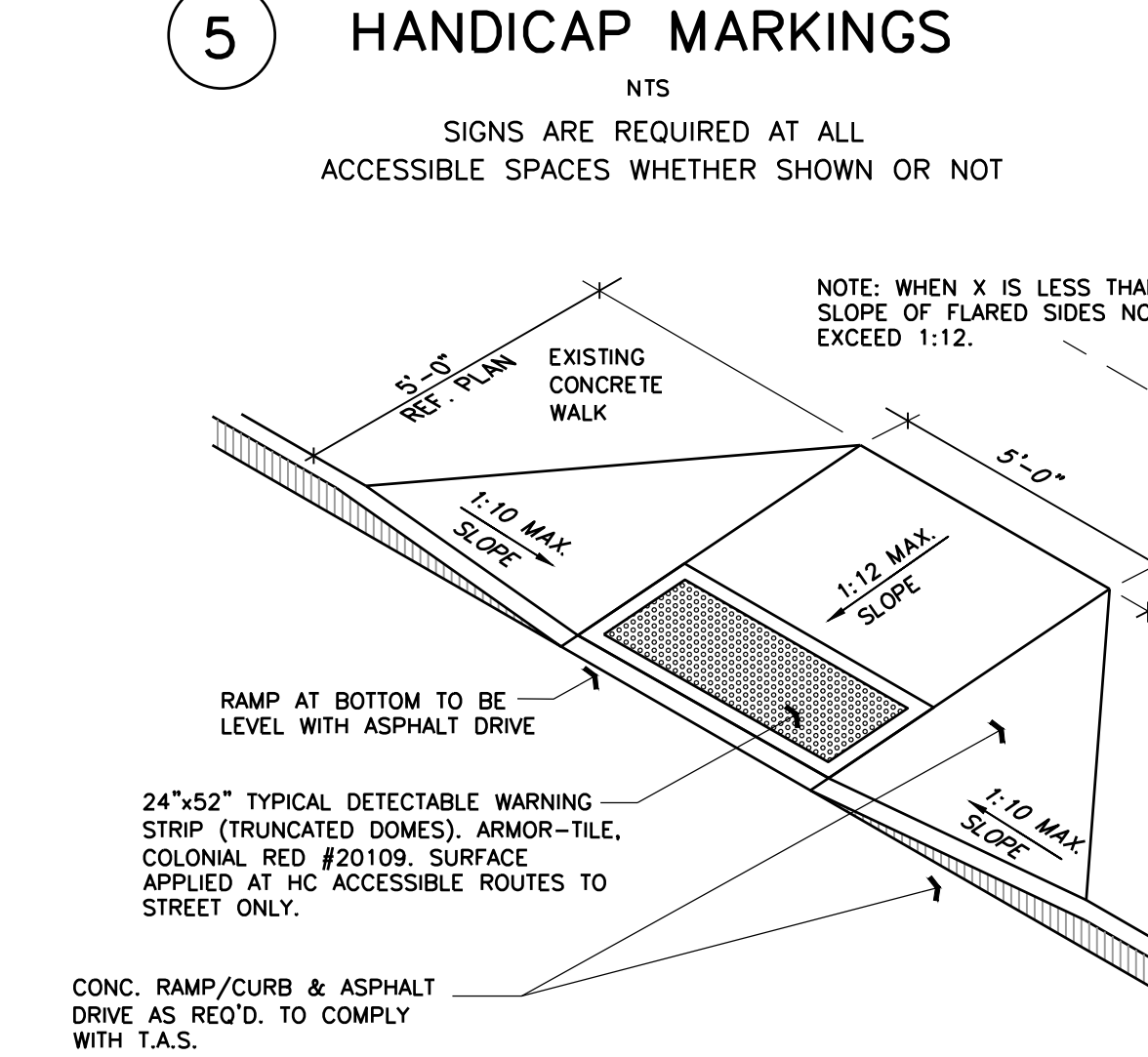


Table 2, Section 4.1.2 TDLR Architectural Barriers Act "Accessible Parking Space Requirements"

Total Parking In Lot	Required Minimum Number of Accessible Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2% of Total
1001 and Over	20 Plus 1 for each 100 over 1000

One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96" wide minimum and shall be designated "van accessible" as required by 4.6.4. The vertical clearance at such spaces shall comply with 4.6.5. All such spaces may be grouped on one level of a parking structure.



TRENCH EXCAVATION SAFETY PROTECTION
Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the system's programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

- NOTES:**
- HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
 - IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" BEYOND THE TOP AND BOTTOM RAIL OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
 - THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1-1/8".
 - GRIPPING SURFACE SHALL BE CONTINUOUS.
 - TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 34" AND 38" ABOVE RAMP SURFACES.
 - ENDS OF RAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.
 - HAND RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

THE FOLLOWING SECTION OF DETAILS PROVIDES INFORMATION ON REQUIREMENTS FOR DISABLED ACCESSIBILITY. THE REQUIREMENTS COMBINE MINIMUM REQUIREMENTS OF STATE AND FEDERAL AGENCIES. THE PURPOSE OF THIS SECTION IS TO HELP AVOID INSTALLATION OF MATERIALS ON CONSTRUCTION PROJECTS THAT WOULD LIMIT ACCESSIBILITY. THE SCOPE OF THIS SECTION IS LIMITED AND THE INDIVIDUALS WORKING ON THE PROJECT SHOULD FAMILIARIZE THEMSELVES WITH TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICAN DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAG) FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COPIES OF THESE DOCUMENTS MAY BE OBTAINED BY CONTACTING THE FOLLOWING:

TAS: OFFICE OF THE SECRETARY OF STATE, TEXAS REGISTER DIVISION, AUSTIN, TEXAS 78711-3824, (512) 463-5569, FAX (512) 463-5581, TDD (800) 735-2989

ADAG: SOUTHWEST DISABILITY AND BUSINESS TECHNICAL ASSISTANCE CENTER FOR REGION VI, 2323 S. SHEPHERD, SUITE 1000, HOUSTON, TEXAS 77019, ADA HOTLINE: (800) 949-4232, TDD: (713) 520-5136, (713) 520-0232, FAX: (713) 520-5785

IN THE EVENT THE INFORMATION ON THE PLAN SHEETS DOES NOT MEET THE MINIMUM REQUIREMENTS OF THE SECTION, THEN THE INFORMATION SHALL BE PRESENTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION OF SPECIFIC AREA OF WORK.

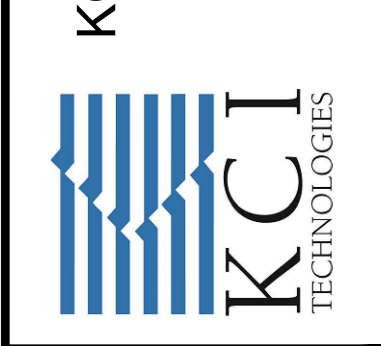
ELIMINATION OF ARCHITECTURAL BARRIERS
REFER TO TEXAS ACCESSIBILITY STANDARDS

In accordance with accessibility requirements, the following standards shall be included when bidding on projects involving renovations of or new facilities for public accommodation or commercial facilities. Any items not conforming to these or any other standards, codes, or ordinances shall be brought to the attention of the project Civil Engineer and Registered Accessibility Specialist. In the event the information listed in this document conflicts with any portion of the work described in the Contract Documents, the contractor shall notify the Civil Engineer and Register Accessibility Specialist, in writing, of his need for a solution to resolve the conflict. The mounting heights indicated are for items that require accessibility by disabled individuals. Contractor to coordinate installation heights with other materials for neat, trimmed out and finished appearance within and outside of buildings within the property and extending out into the ROW along the frontage of this property. Items for disabled individual use shall be mounted at height indicated within plans or noted in the construction documents.

- DOORS AND OPENINGS:**
 - Raised Thresholds and Floor Level Changes at Doorways: Changes in level at doors shall not exceed one-half inch (1/2") in height and shall be beveled with a slope no greater than 1:2.
 - Door Hardware: Handles, pulls, latches, locks, and other operating devices on doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, light pinching, or twisting to operate. The force required to activate door hardware shall be no greater than five lbs. Acceptable designs include lever-operated mechanisms, push-type mechanisms, and U-shaped handles. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Doors to hazardous areas such as loading platforms, boiler rooms, mechanical and electrical rooms, slopes, and other areas that might be dangerous to a blind person, shall be made identifiable to the touch by a textured surface on the door handle, pull, or other operating hardware. This textured surface may be made by knurling or roughening (no tape allowed). Such textured surfaces shall not be provided for emergency exit doors or any doors other than those to hazardous areas.
 - Door Closer: If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of: (a) 90 degrees, the door will take at least three seconds to move to an open position of approximately 12 degrees; or (b) 70 degrees, the door will take at least three seconds to move to a joint 3 inches from the latch, measured to the leading edge of the door.
 - Door Opening Force: The maximum force for pushing or pulling open a door shall comply with this paragraph. For hinged doors, the force shall be applied perpendicular to the door at the door opener or 30 inches from the hinged side, whichever is farther from the hinge. For sliding doors, the force shall be applied parallel to the door at the door pull or latch.
 - Exterior hinged doors shall not exceed 8.5 lbf. Slight increase in opening force shall be allowed where 8.5 lbf is insufficient to compensate for air pressure differentials.
 - Sliding doors, folding doors, and interior hinged doors shall not require a force exceeding five lbf.
 - Fire doors may be adjusted to meet the minimum opening force allowed by the governing authority or applicable building code.
- CONTROLS AND OPERATING MECHANISMS:**
 - All controls and devices having general use mechanical or electrical operating mechanisms which are expected to be operable by occupants, visitors, or other users of a building or facility, shall comply with this subsection. Such mechanisms may include, but are not limited to, thermostats, light switches, alarm activating units, ventilators, electrical outlets, paper towel dispensers, etc.
 - Clear Floor Space: A clear floor space that allows a forward or parallel approach by a person using a wheelchair shall be provided at all controls, dispensers, receptacles, and other operable equipment. The space shall never be less than an area 30 x 48 inches.
 - Height: The highest operable part of any control, dispenser, receptacle, and other operable equipment shall be no higher from the floor than heights indicated on attached sketches for forward and side approach except where the use of special equipment dictates otherwise. Electrical and communications systems receptacles on walls shall be mounted no less than fifteen inches (15") above the floor.
 - Operation: controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or severe twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.
- SIGNAGE:**
 - Wherever signage is used for emergency information or general circulation directions of for the identification of rooms and spaces, at least one unit of signage shall be provided for each function and each room or space that is identified.
 - Character Proportion: Letters and numbers on signs shall have width-to-height ratio between 3:5 and 1:1, and a stroke width-to-height ratio between 1:5 and 1:10, using upper case "X" for measurement.
 - Color Contrast: Characters and symbols shall have contrast with their background.
 - Electrical and communications systems receptacles on walls shall be mounted no less than fifteen inches (15") above the floor.
 - Tactile Characters and Symbols: Characters, symbols, or pictographs on signs required to be tactile, shall be raised 1/32 in. minimum. Letters and numbers shall be sans serif characters; shall be at least 5/8 in. high, but should be no higher than 2 in.; and shall be proportioned in accordance with sub paragraph 3.A.1) above.
 - Mounting Height and Location: Room identification signs shall be mounted on the wall surface on the latch (strike) side of doors between approx. 54 in. (54") and 66 in. (66") above the finish floor and within 8 in. (8") from the outside edge of the door frame. Other signs for directional information only shall be mounted between 54" and 66" above finish floor.

DESIGNED BY: PAM
DRAWN BY: ASJ
APPROVED: PAM
JOB NO.: 78E0670600

KCI TECHNOLOGIES, INC.
2808 W. BITTERS ROAD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9899
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REGISTRATION #F-10573 / #101943-65

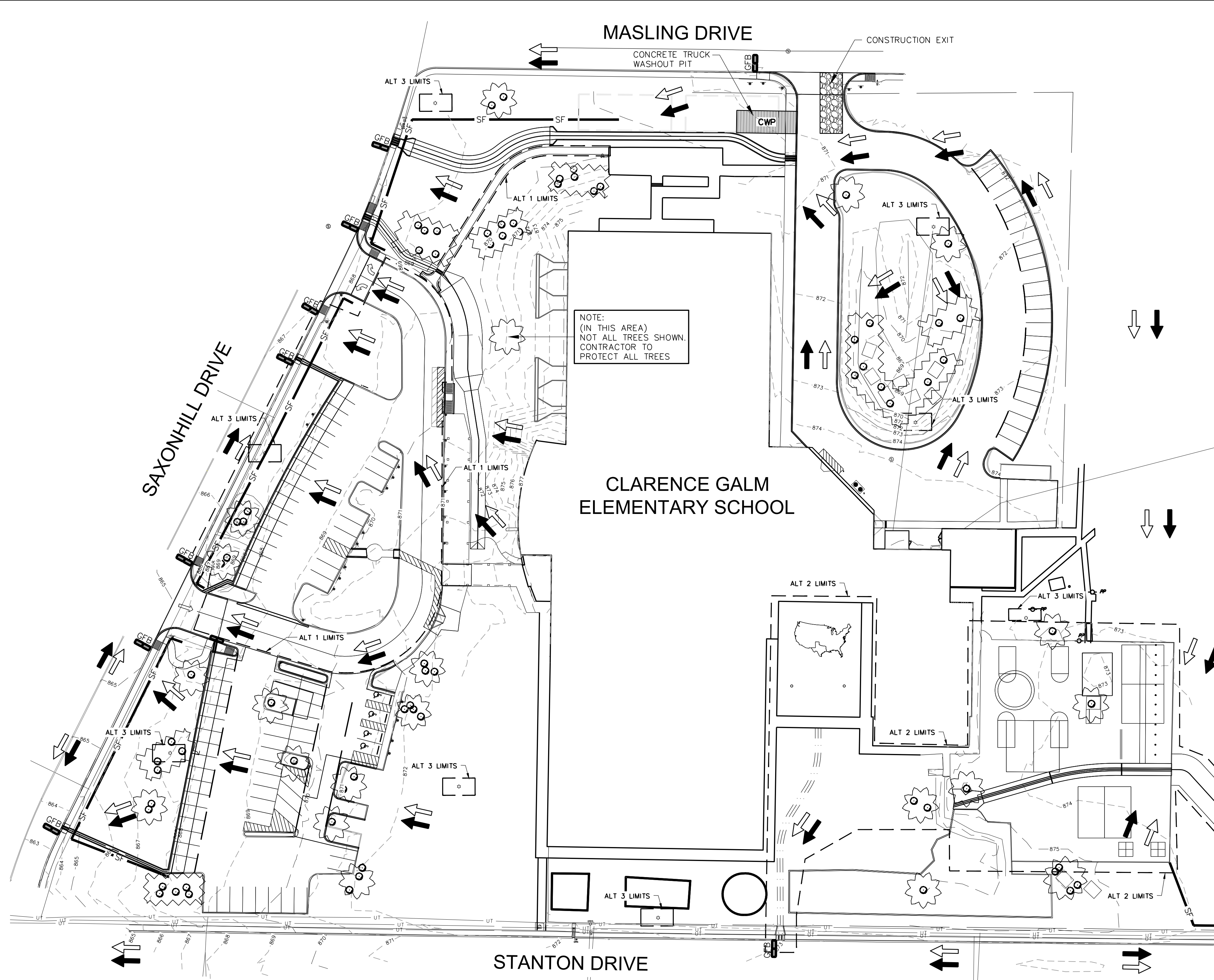


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY: PAUL A. MATHIS, P.E.
NO. #1005075
ON: JANUARY 31, 2024 DATE



REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALT ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
ADA DETAILS



SWPPP LEGEND

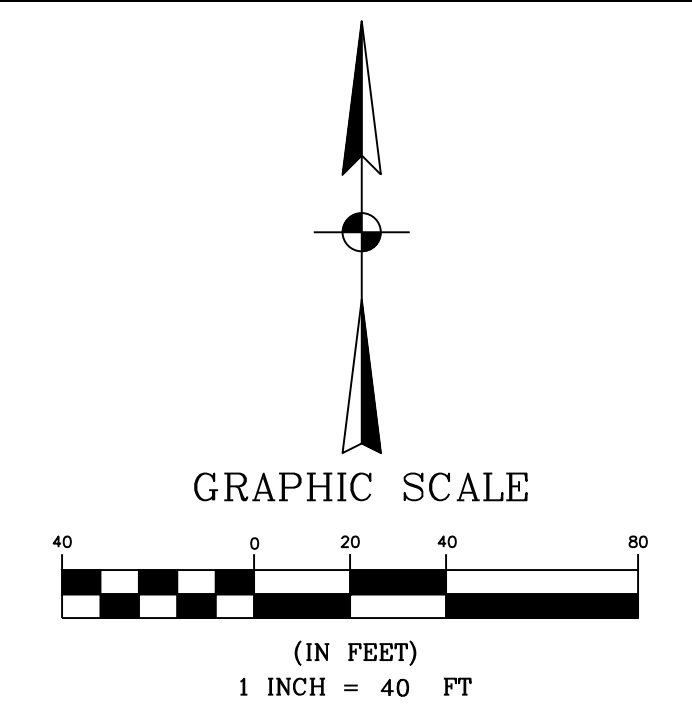
- SF SILT FENCING
- GRAVEL BAGS OR EROSION CONTROL LOGS
- CONSTRUCTION EXIT
- CONCRETE TRUCK WASHOUT PIT
- TREE PROTECTION

TOPO LEGEND

- 578 EXISTING CONTOURS
- 578 PROPOSED CONTOURS
- EXISTING DRAINAGE FLOW
- PROPOSED DRAINAGE FLOW

SOIL TYPE

ECKRANT COBBLY CLAY, 100%
(FROM USDA WEB SOIL SURVEY)



NOTE:
(IN THIS AREA)
NOT ALL TREES SHOWN.
CONTRACTOR TO
PROTECT ALL TREES

**CLARENCE GALM
ELEMENTARY SCHOOL**

NOTES:
1. NOT ALL TREES ARE SHOWN, HOWEVER ALL TREES MUST BE PROTECTED.

SWPPP PLAN

SCALE: 1" = 40'

NOTES:
THE SCALE OF THIS SWPPP PRECLUDES SHOWING THE FULL EXTENT OF THE SITE GRADING. FINISH CONTOURS ARE SHOWN. ADDITIONAL INFORMATION ON THE GRADING AND VEGETATIVE RESTORATION MAY BE FOUND ON THE SITE, AND GRADING PLANS.
THE SWPPP PROGRAM SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE ENTIRE PROJECT.

SWPPP REQUIREMENTS:
PRIOR TO START OF ANY CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL OBTAIN A SWPPP PERMIT FROM BEXAR COUNTY PUBLIC WORKS AND SUBMIT AN NOI TO TCEQ AND THE SAN ANTONIO WATER SYSTEM, POST REQUIRED SITE NOTICES, AND IMPLEMENT THE SWPPP MEASURES APPLICABLE TO THAT PHASE OF WORK. THE MINIMUM SWPPP MEASURES FOR THIS PROJECT ARE LISTED BELOW AND ABOVE. THE CONTRACTOR MAY MODIFY THESE MEASURES AS LONG AS THE SAME LEVEL OF PROTECTION IS PROVIDED:
EXISTING TREES AND VEGETATION ALONG FENCE LINES AND IN TREE PRESERVATION AREAS SHALL REMAIN UNLESS NOTED OTHERWISE ON LANDSCAPE OR DEMOLITION PLANS.
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING CONSTRUCTION ENTRANCES, CONCRETE WASHOUT PITS, TRASH AND RECYCLING CONTAINERS AND RESTROOM FACILITIES.
CONTRACTOR SHALL CONSTRUCT CONSTRUCTION ENTRANCE(S) AS REQUIRED TO PREVENT TRACKING OF SOIL ONTO ADJACENT STREETS.
CONTRACTOR SHALL ESTABLISH WASHOUT FACILITIES AS REQUIRED FOR CONCRETE WASHOUT WASTE. FACILITIES MAY BE PITS, TANKS, OR OTHER FACILITIES DESIGNED FOR THIS PURPOSE.

SITE DESCRIPTION

PROJECT LOCATION: CLARENCE GALM ELEMENTARY SCHOOL 1434 SAXONHILL DRIVE SAN ANTONIO, BEXAR COUNTY, TEXAS 78253	TOTAL PROJECT AREA: 11.51 ACRES TOTAL AREA TO BE DISTURBED: 11.51 ACRES WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.94 (AFTER CONSTRUCTION): 0.94
PROJECT DESCRIPTION: CONSTRUCTION OF PARKING, SIDEWALK AND DRIVEWAY CONSTRUCTION.	EXISTING CONDITION OF SOIL AND VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: GRASS WITH MATURE TREES IN ESTABLISHED SCHOOL
MAJOR SOIL DISTURBING ACTIVITIES: PARTIAL SITE GRADING, COMPACTED BASE AND GRAVEL AND DRIVEWAY CONSTRUCTION.	NAME OF RECEIVING WATERS: MEDIO CREEK

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES: <input checked="" type="checkbox"/> TEMPORARY SEEDING <input checked="" type="checkbox"/> PERMANENT PLANTING, SODDING, OR SEEDING <input checked="" type="checkbox"/> MULCHING <input checked="" type="checkbox"/> SOIL RETENTION BLANKET <input checked="" type="checkbox"/> BUFFER ZONES <input checked="" type="checkbox"/> PRESERVATION OF NATURAL RESOURCES OTHER:	OTHER EROSION & SEDIMENT CONTROLS: MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. The areas adjacent to drainage ways shall have priority followed by devices protecting storm sewer inlets.
STRUCTURAL PRACTICES: <input checked="" type="checkbox"/> SILT FENCES <input checked="" type="checkbox"/> HAY BALES <input checked="" type="checkbox"/> ROCK BERMS <input checked="" type="checkbox"/> DIVERSION, INTERCEPTOR, OR PERIMETER DICES <input checked="" type="checkbox"/> DIVERSION DIKE AND SWALE COMBINATIONS <input checked="" type="checkbox"/> PIPE SLOPE DRAINS <input checked="" type="checkbox"/> PAVED FLUMES <input checked="" type="checkbox"/> ROCK BEDDING AT CONSTRUCTION EXIT <input checked="" type="checkbox"/> TIMBER MATTING AT CONSTRUCTION EXIT <input checked="" type="checkbox"/> CHANNEL LINERS <input checked="" type="checkbox"/> SEDIMENT TRAPS <input checked="" type="checkbox"/> SEDIMENT BASINS <input checked="" type="checkbox"/> STORM INLET SEDIMENT TRAP <input checked="" type="checkbox"/> STONE OUTLET STRUCTURES <input checked="" type="checkbox"/> CURBS AND GUTTERS <input checked="" type="checkbox"/> STORM SEWERS <input checked="" type="checkbox"/> VELOCITY CONTROL DEVICES <input checked="" type="checkbox"/> GRAVEL FILTER BAGS OTHER:	INSPECTION: An inspection will be performed by the owner or contractor's representative every week as well as after every half inch or more of rain (as recorded on a non-freezing rain gauge to be located at the Project Site). An Inspection and Maintenance Report will be made per each inspection. Based on the inspection results, the controls shall be revised per the inspection report. HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories are considered to be hazardous: paints, acids for cleaning, masonry surfaces, cleaning solvents, asphalt products, chemical additives for soil stabilization or concrete curing compounds & admixtures. In the event of a hazardous material spill, the soil coordinator shall be contacted immediately. SANITARY WASTE: All sanitary waste will be collected from portable units as necessary or as required by local regulations by a Licensed Sanitary Waste Management Contractor. OFFSITE VEHICLE TRACKING: <input checked="" type="checkbox"/> HAUL ROADS DAMPENED FOR DUST CONTROL <input checked="" type="checkbox"/> EXCESS DIRT ON ROAD REMOVED ON A REGULAR BASIS <input checked="" type="checkbox"/> STABILIZED CONSTRUCTION ENTRANCE OTHER:
NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES: PHASE I: 1. INSTALLATION OF SWPPP MEASURES PHASE II: 1. PARTIAL DEMOLITION AND SITE GRADING PHASE III: 1. COMPACTED BASE & PAVEMENT (PARKING AND DRIVEWAY CONSTRUCTION) PHASE IV: 1. VEGETATE DISTURBED AREAS NOT SCHEDULED FOR PAVING. PHASE V: 1. REMOVAL OF TEMPORARY BMP'S ONCE PERMANENT VEGETATION IS ESTABLISHED. STORM WATER MANAGEMENT: 1. TEMP BMP'S AND PERMANENT VEGETATION	REMARKS: Dispose areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Dispose areas shall not be located in any wetlands, waterbody or streambed. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, hosework, piping, debris or other obstructions placed during construction operations that are not a part of the finished work.

DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

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NO. #105075
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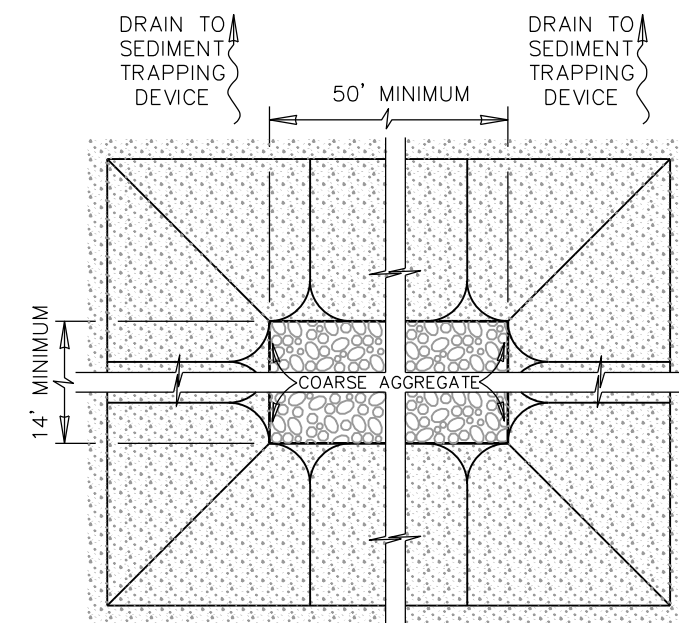
NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALM ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
OVERALL SWPPP

SHEET NO.

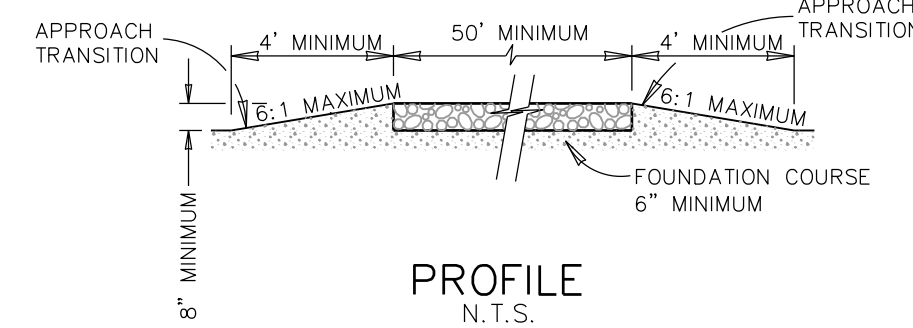
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JANUARY 31, 2024

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PLAN
N.T.S.

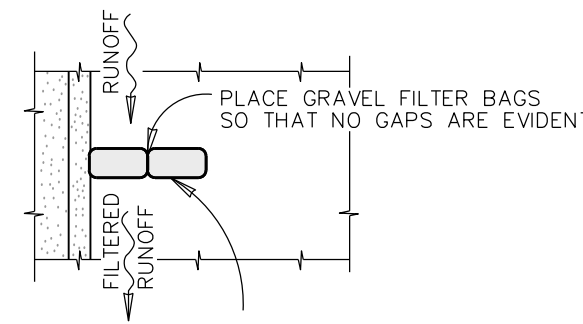


PROFILE
N.T.S.

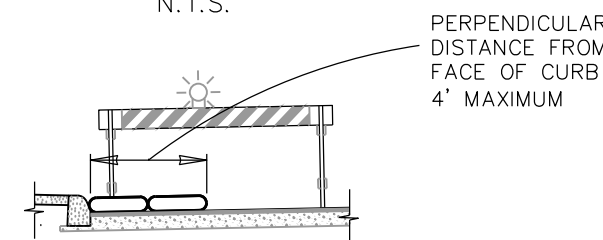
GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT – TYPE 1



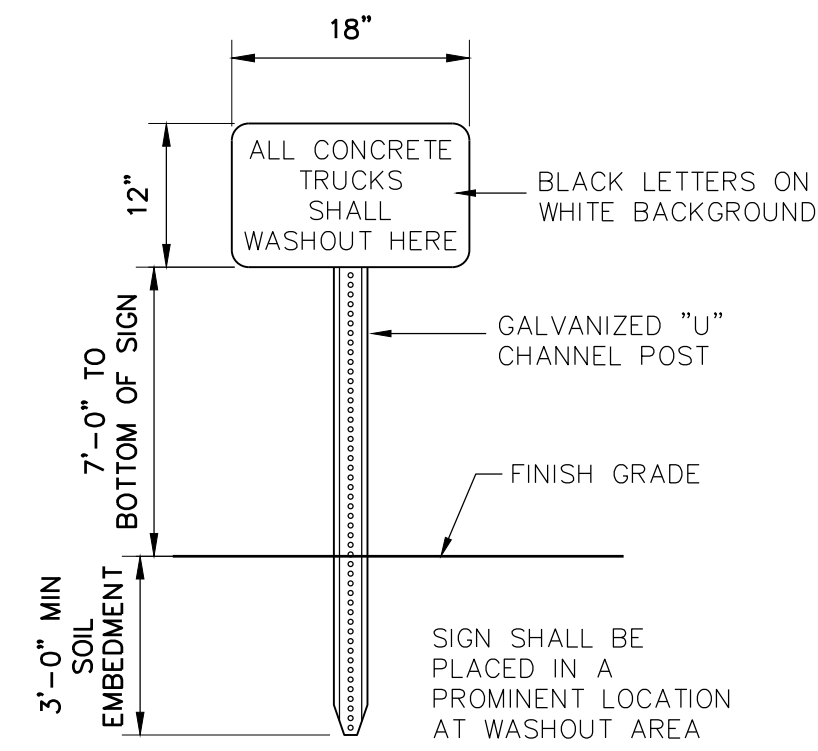
PLAN
N.T.S.



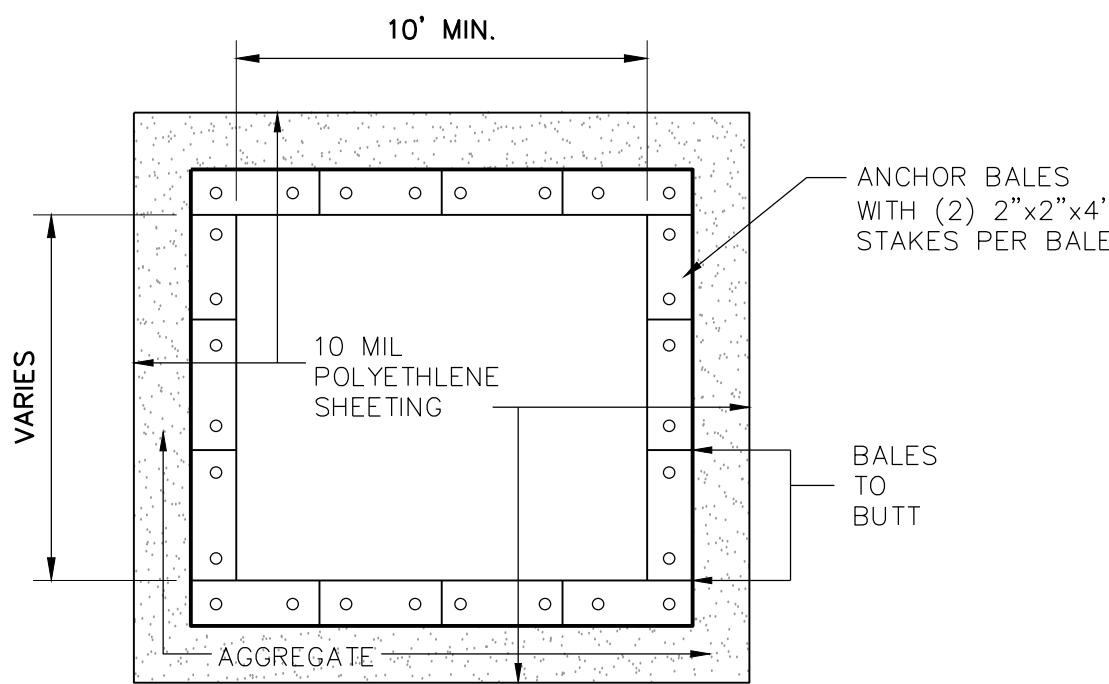
ELEVATION
N.T.S.

NOTE:
STRADDLE GRAVEL FILTER BAGS WITH TYPE 1 BARRICADES MOUNTED WITH TYPE "A" FLASHING WARNING LIGHT. SEE BARRICADE CONSTRUCTION SIGN DETAILS. PLACE FLASHING LIGHTS AWAY FROM GUTTER, FLUSH WITH OUTSIDE EDGE OF BAG CONFIGURATION.

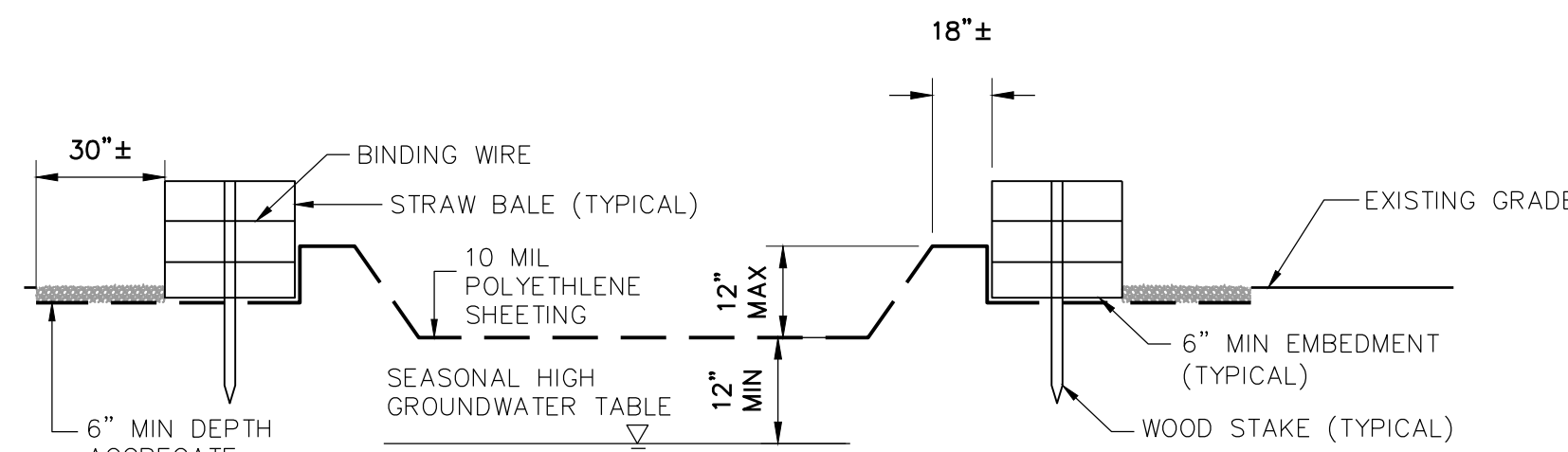
GRAVEL FILTER BAGS



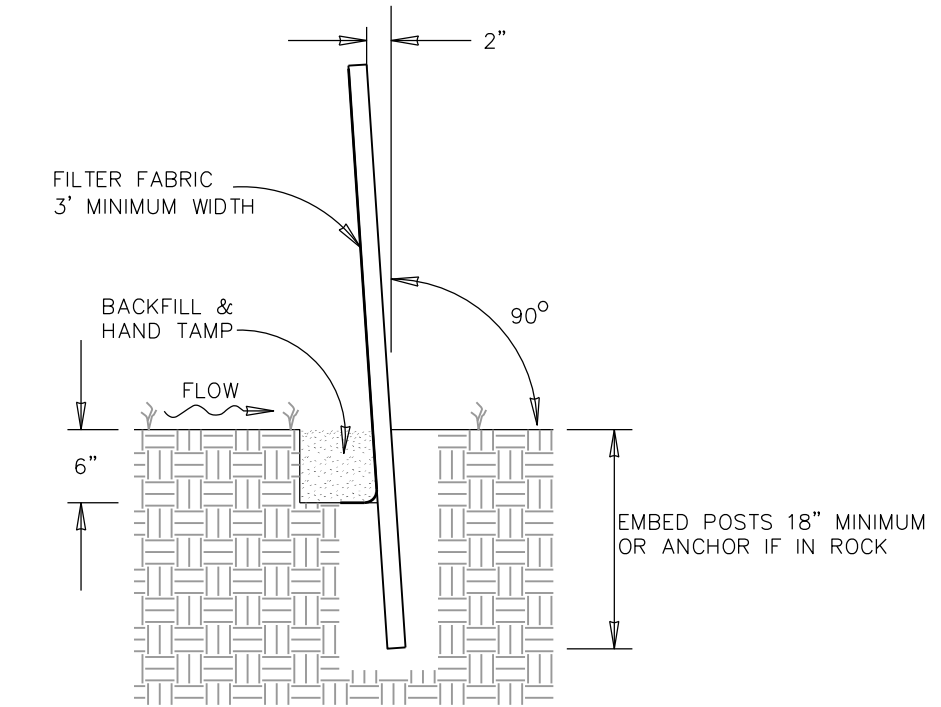
WASHOUT SIGN
NOT TO SCALE



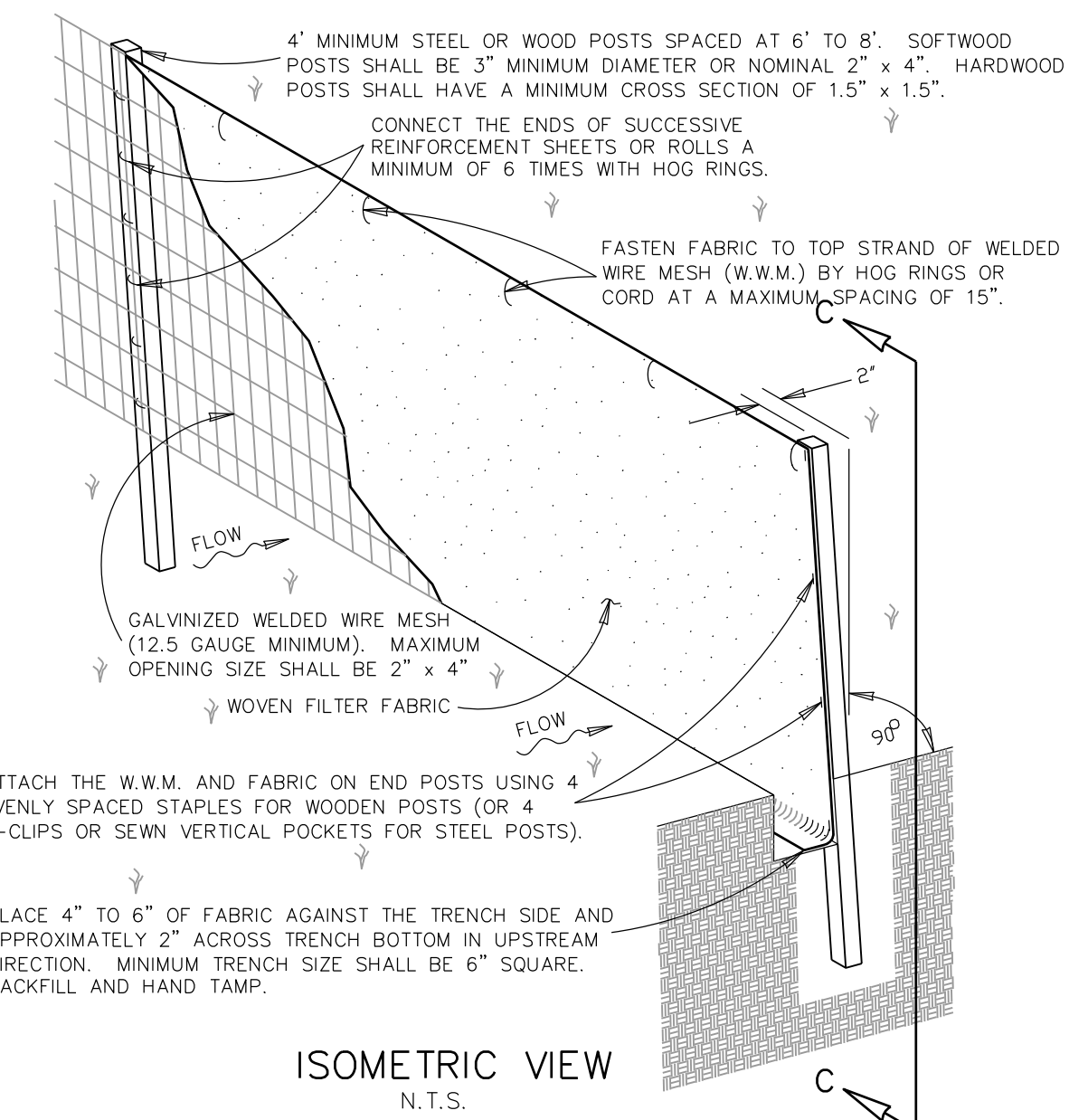
PLAN VIEW



PROFILE VIEW
CONCRETE WASHOUT
NOT TO SCALE



SECTION C-C
N.T.S.



ISOMETRIC VIEW
N.T.S.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED. SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

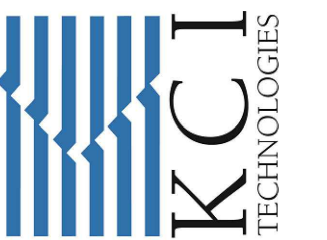
GENERAL NOTES

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TEMPORARY SEDIMENT CONTROL FENCE

DESIGNED BY:	PAM
DRAWN BY:	ASJ
APPROVED:	PAM
JOB NO.:	78E0670600

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NO. #105075
ON: JANUARY 31, 2024
DATE



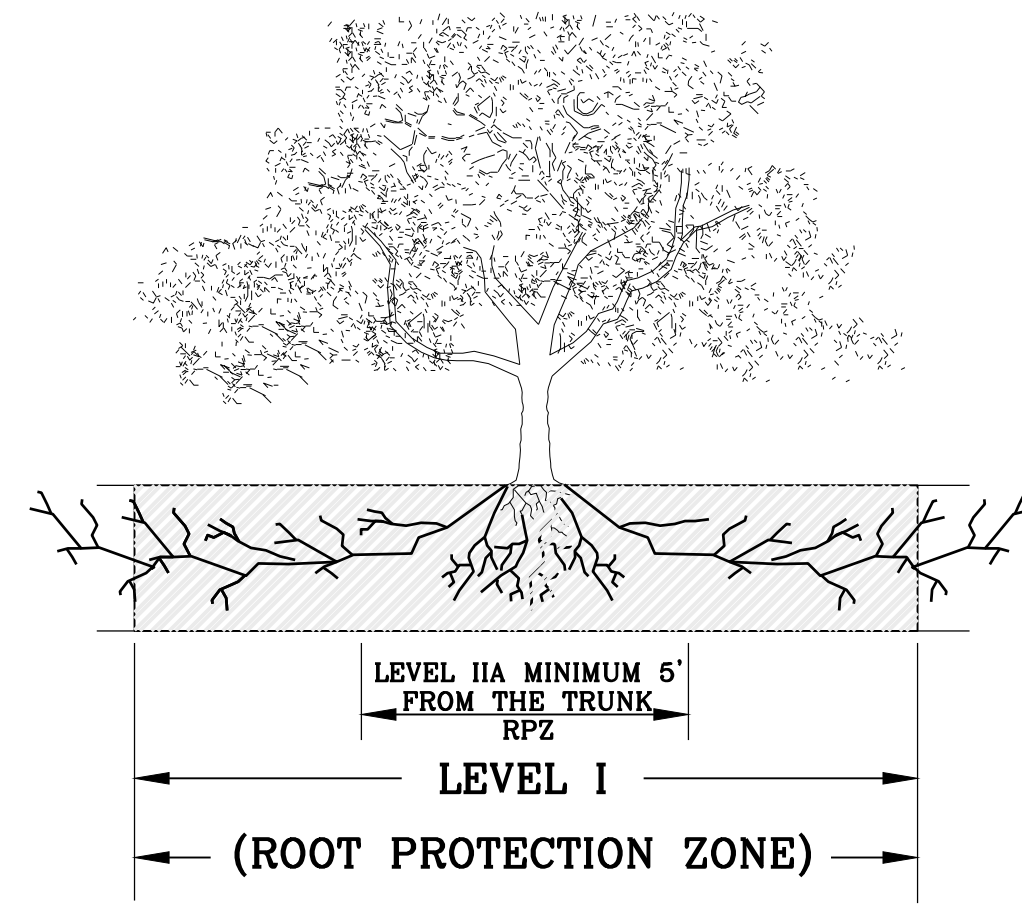
REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALT ELEMENTARY SCHOOL
PAVING AND DRAINAGE
IMPROVEMENTS
SWPPP DETAILS

SHEET NO.

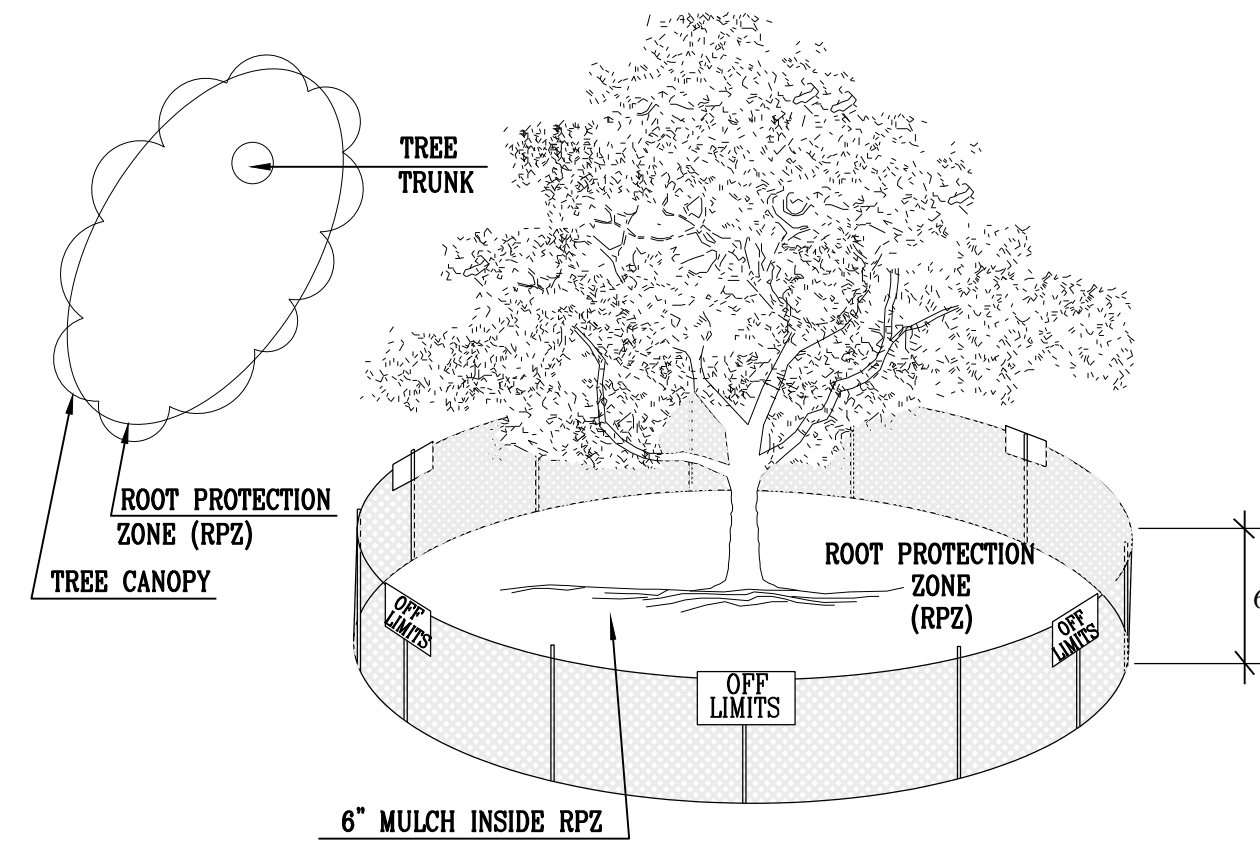
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JANUARY 31, 2024



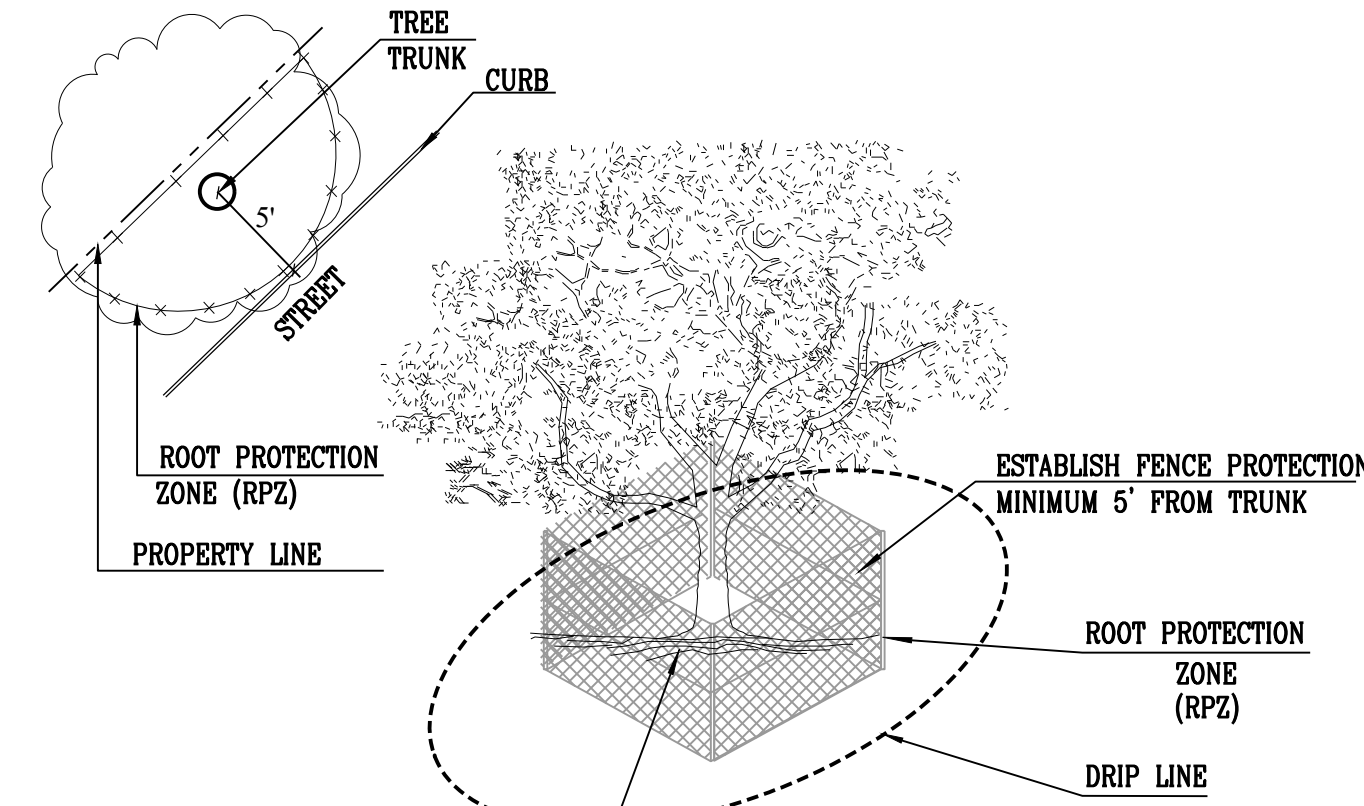
1.1.1 ELEVATION
N. T. S.

ROOT PROTECTION ZONE—THE ROOT PROTECTION ZONE IS A CIRCULAR AREA AROUND A TREE THAT IS THE SAME LIMITS AS THE DRIP LINE OF THE TREE.



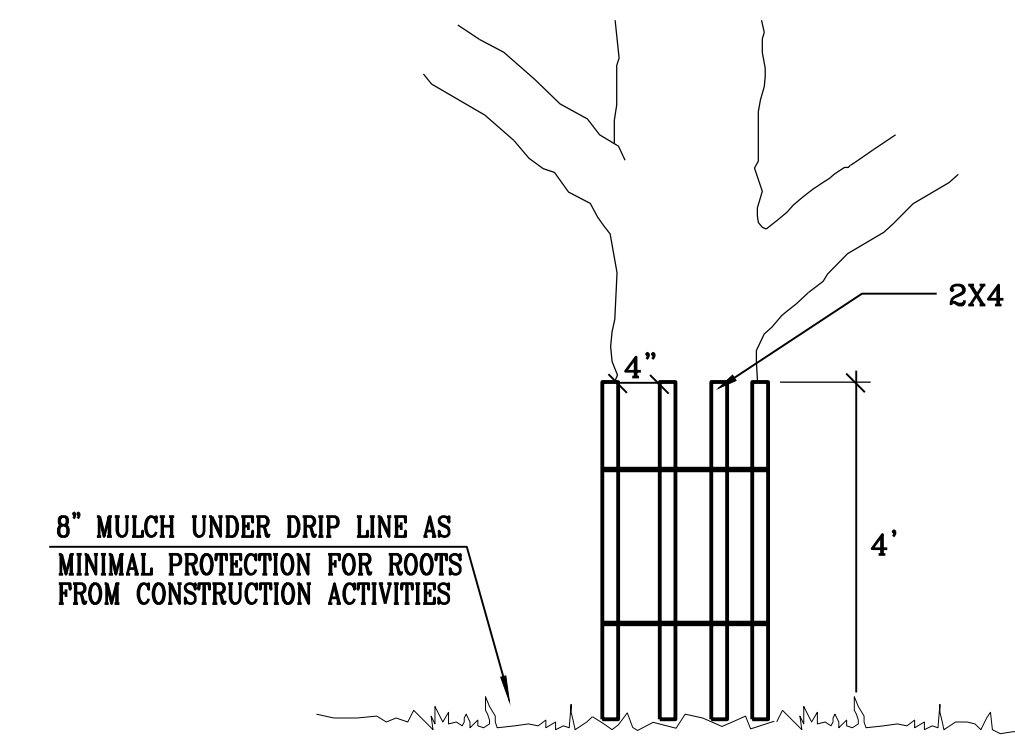
1.1.2 LEVEL I & FENCE PROTECTION
N. T. S.

NOTE:
1. THE FENCING SHOWN ABOVE IS DIAGRAMMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND LIMITED TO PROJECT BOUNDARY.
2. FENCING MATERIAL IS TO BE ORANGE SNOW FENCING WITH T-POSTS AT A MINIMUM.
3. POST MUST BE INSTALLED IN THE GROUND TO SUPPORT FABRIC ADEQUATELY.



1.1.3 LEVEL II A FENCE PROTECTION
N. T. S.

NOTE:
1. OPTION USED FOR TIGHT CONSTRUCTION AREAS OR WHEN CONSTRUCTION OCCURS IN ROOT PROTECTION ZONE.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

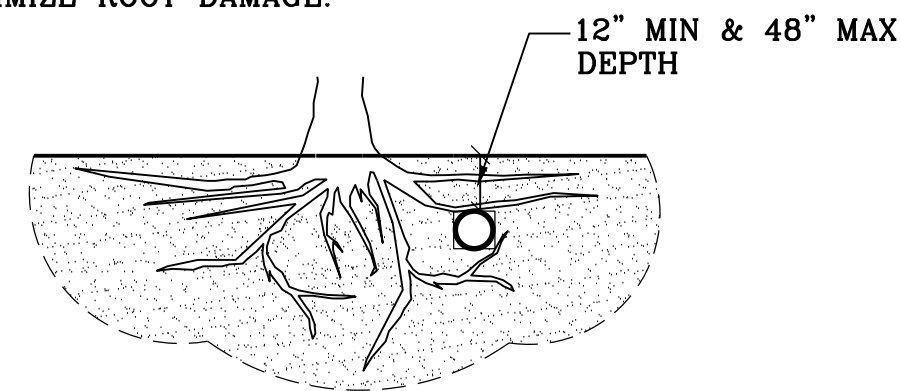


1.1.4 LEVEL II B FENCE PROTECTION
N. T. S.

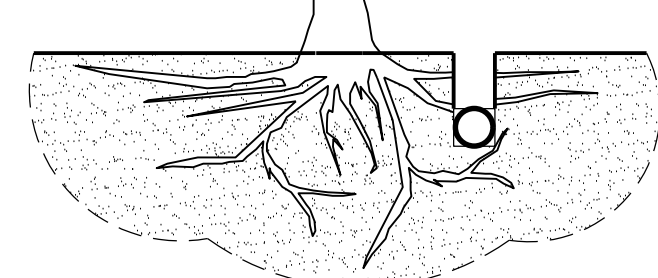
NOTE:
WRAP TREE TRUNK WITH 2"x4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS THROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.

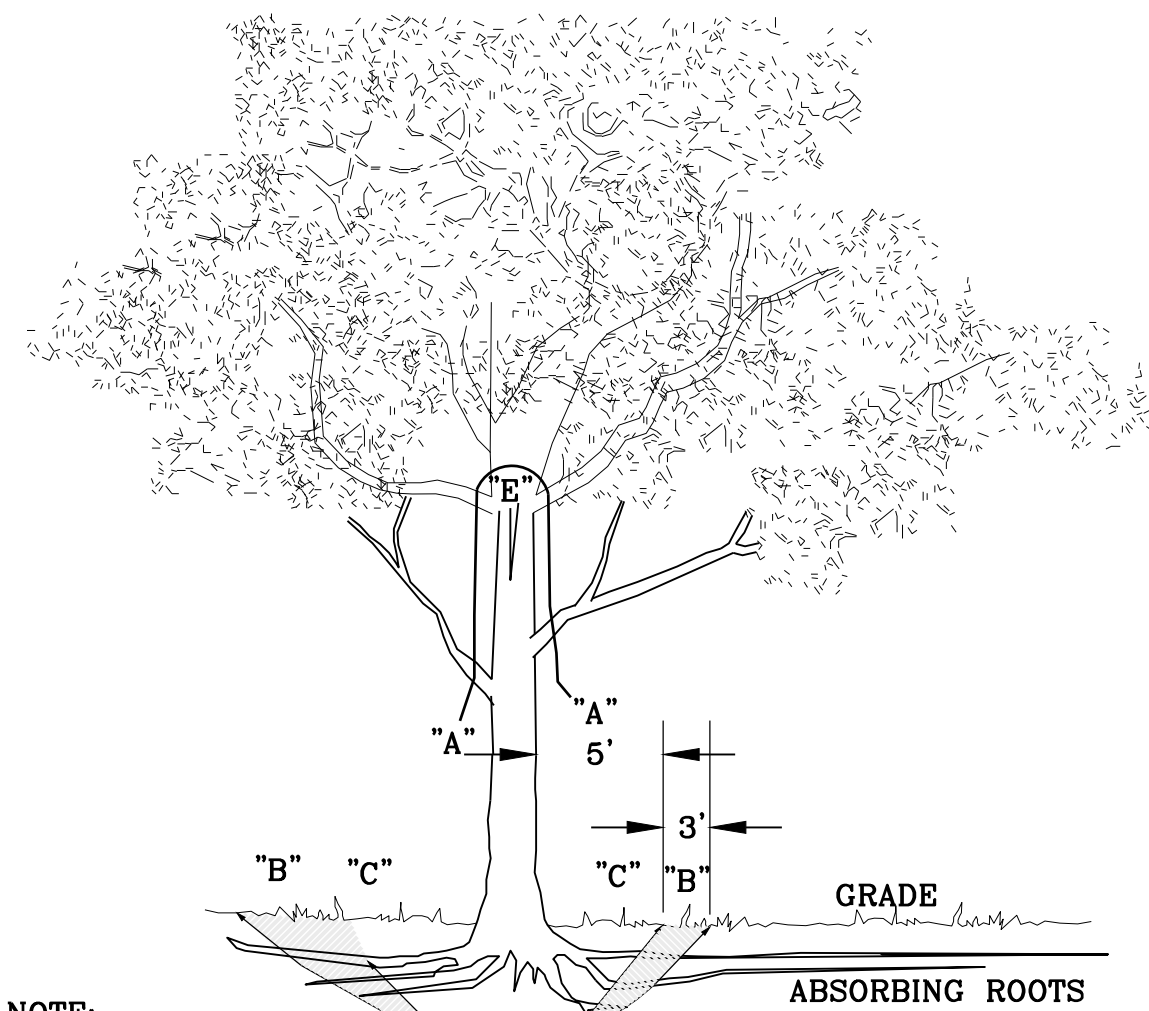


TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



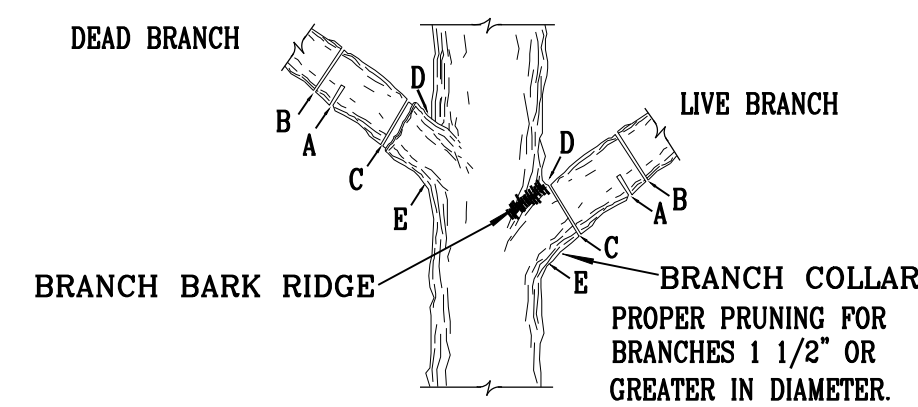
OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

1.2 BORING THRU TREE ROOT ZONE
N. T. S.



NOTE:
"A" REMOVE BULKY TREE PARTS "SHRED" AND/OR HAUL SEPARATELY.
"B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK - CUT THRU ANCHOR ROOTS AT AN ANGLE - 3' TO 4' DEEP
"C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.)
"D" BACKFILL HOLE AND CLEAN UP.

1.3 TREE REMOVAL DIAGRAM
N. T. S.



NOTE: DO NOT CUT FROM D TO E.
A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELLED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
D. BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.
FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.
N.T.S.

1.4 BRANCH PRUNING DETAIL
N. T. S.

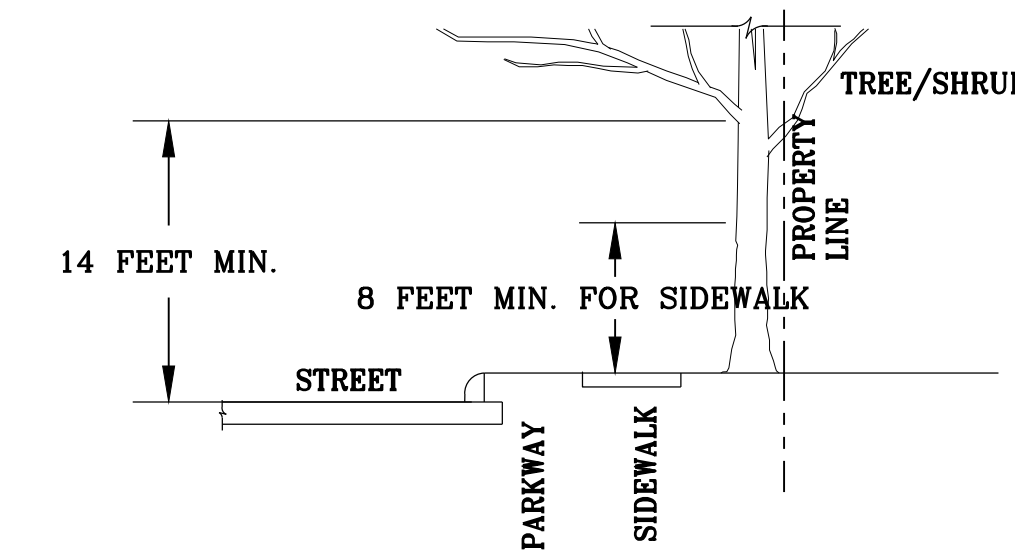


FIGURE No.2:
A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.

1.5 BRANCH CLEARANCE DETAIL
N. T. S.

GENERAL TREE PROTECTION NOTES

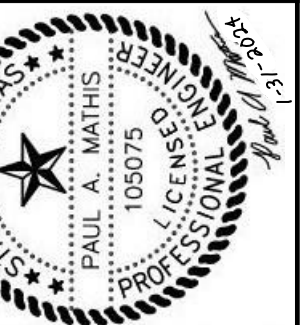
- ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO 1.2 AND 1.4 TREE PRUNING, SOIL AMENDING AND FERTILIZATION, UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 2 PROTECTION AS PER 1.1.3 AND 1.1.4. TREES TO RECEIVE LEVEL 1 PROTECTION AS PER 1.1.2 ARE SHOWN ON TREE PROTECTION TABLE ON THIS SHEET.
- ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.
- NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- TREE PROTECTION FENCING SHALL BE REQUIRED, TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
- THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE ENGINEER.
- THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS IS EQUAL TO THE DRIP LINE OF THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. LIVE OAK WOUNDS SHALL BE PAINTED OVER, IMMEDIATELY TO PREVENT OAK WILT.
- ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER.
- GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
- TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR ENGINEER.
- TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
- EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- ANY TREE REMOVAL SHALL BE APPROVED BY THE ENGINEER.

DESIGNED BY: PAM
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APPROVED: PAM
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REV	DATE	DESCRIPTION

NORTHSIDE INDEPENDENT SCHOOL DISTRICT
CLARENCE GALT ELEMENTARY SCHOOL
PAVING AND DRAINAGE IMPROVEMENTS
TREE PROTECTION DETAILS

SHEET NO.

C4.2

JANUARY 31, 2024