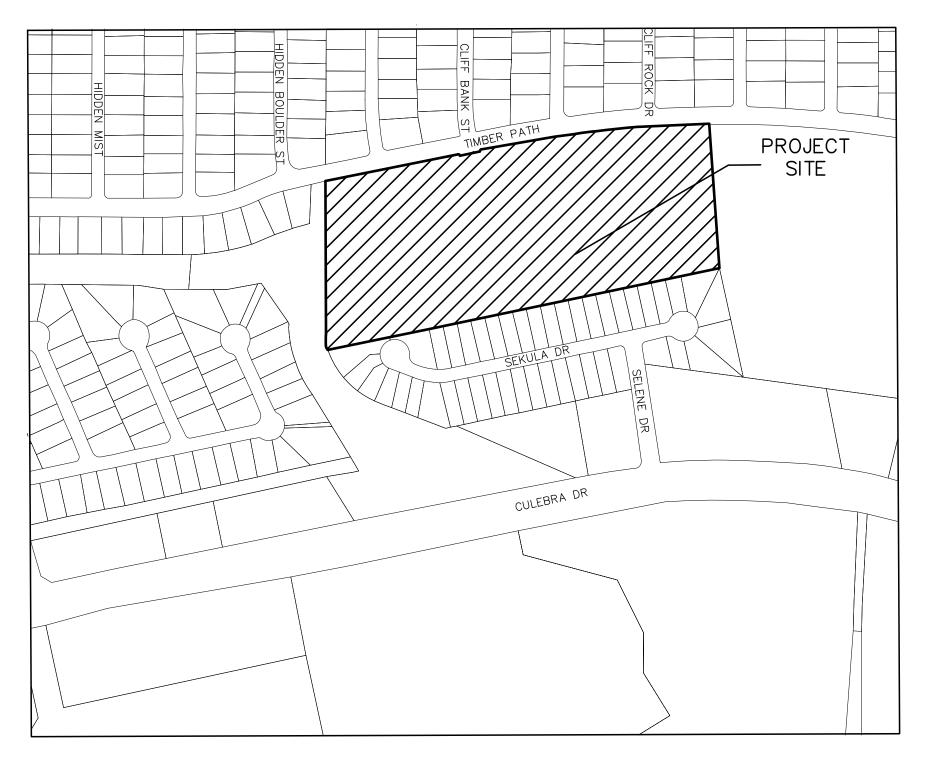
PAVING UPGRADES @ LLOYD M. KNOWLTON ES RFCSP#2024-005 NORTHSIDE INDEPENDENT SCHOOL DISTRICT BEXAR COUNTY, TEXAS

JANUARY 31, 2024

SCHOOL BOARD MEMBERS:

ROBERT BLOUNT, JR.	PRESIDENT
CORINNE SALDANA	VICE PRESIDENT
GERALD B. LOPEZ	SECRETARY
DAVID SALCIDO	TRUSTEE
DR. KARLA DURAN	TRUSTEE
CAROL HARLE, PH.D.	TRUSTEE
KAREN FREEMAN	TRUSTEE
DR. JOHN M. CRAFT	SUPERINTENDENT



LOCATION MAP N.T.S.

SHEET INDEX

COVER SHEET GENERAL NOTES

OVERALL EXISTING & DEMOLITION PLAN

DEMOLITION PLAN NW DEMOLITION PLAN NE OVERALL DIMENSION PLAN

DIMENSION PLAN NW DIMENSION PLAN NE OVERALL GRADING PLAN

GRADING PLAN NW GRADING AND STORM DRAIN PLAN NE

CIVIL DETAILS

COSA STANDARD DETAILS COSA STANDARD DETAILS COSA DRIVEWAY DETAILS

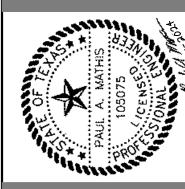
ADA DETAILS

CIVIL DETAILS OVERALL SWPPP PLAN

SWPPP DETAILS TREE PROTECTION

FIRE PROTECTION PLAN





AT

CHECKED BY: **REVISIONS**:

CONTRACTOR NOTES:

1. CONTRACTOR TO PROVIDE & INSTALL PROJECT SIGNAGE IN ACCORDANCE WITH ATTACHMENT J OF THE CONTRACT DOCUMENT.

2. CONTRACTOR TO PROVIDE AERIAL PHOTO OF THE SITE WITH EVERY PAY APPLICATION.

3. NO JOB TRAILER IS REQURIED FOR THIS PROJECT.

GENERAL NOTES:

ANY SITE WORK.

- 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 ENGINEER 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
- 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
- 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 NOTED 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

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

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF

- 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 ABUTTING 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 ENGINEER 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

OF THE OWNING AUTHORITY.

- 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
- 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
- 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 SUBJECTED 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
- 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 COMPACTING 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.

- 54. REFERENCE PAVEMENT DETAILS AND NOTES ON DETAIL SHEET.
- 55. NO RAP OR RAS SHALL BE USED IN ASPHALT SURFACE COURSE.
- 56. REFERENCE GEOTECHNICAL ENGINEERING STUDY PREPARED BY TERRACON, PROJECT #90235228, DATED NOVEMBER 3, 2023.

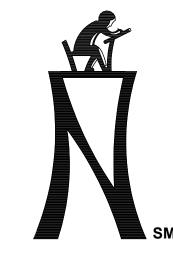
CPS ENERGY NOTES

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

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 KFFP 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)

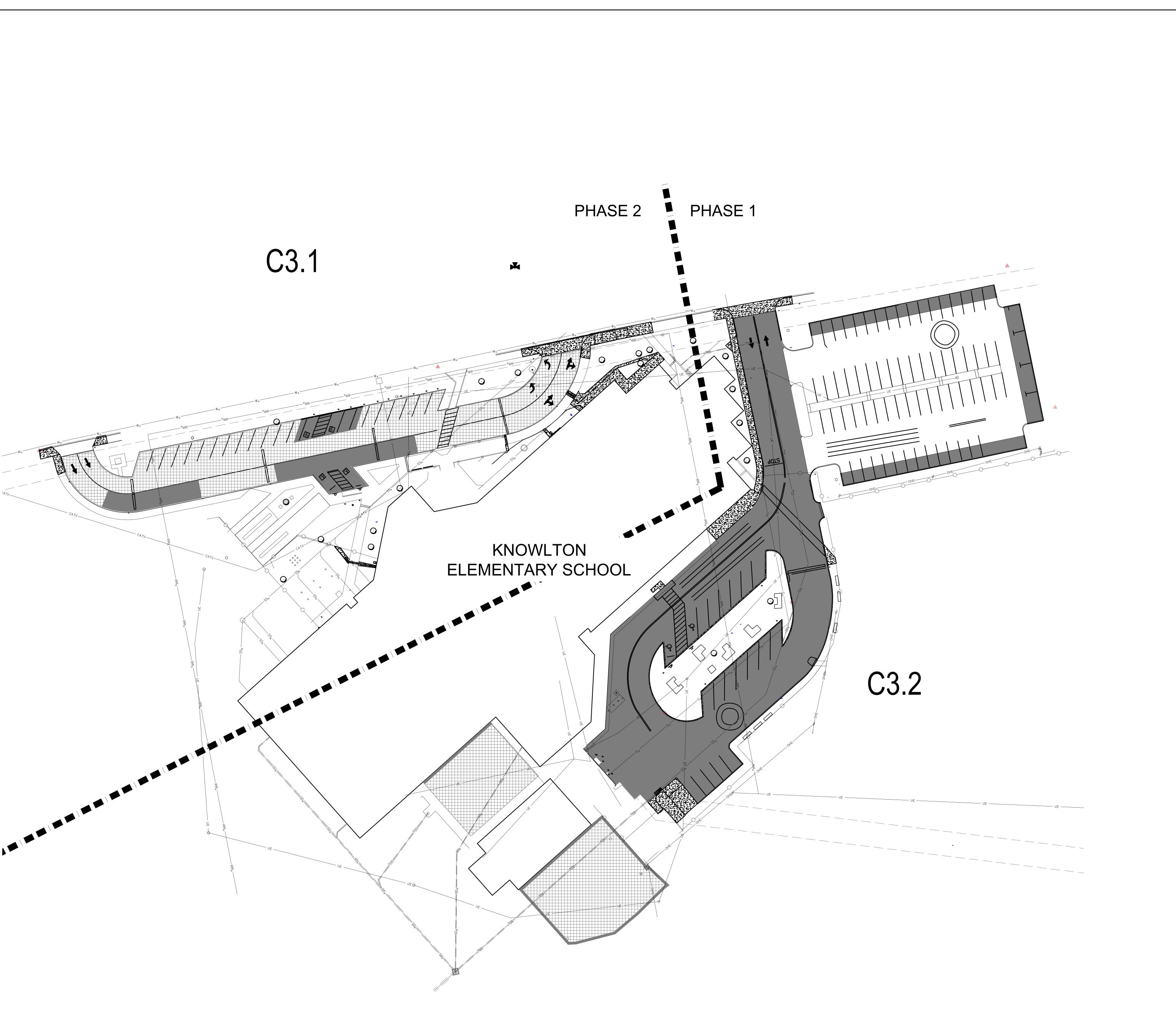


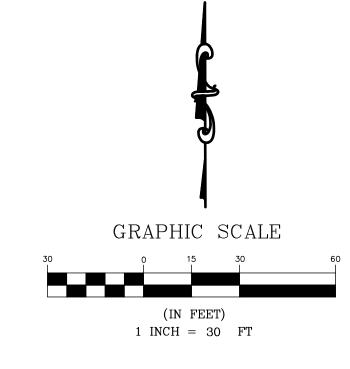
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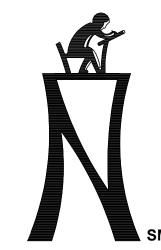
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	_ EXISTING CHAINLINK FENCE
——————————————————————————————————————	- EXISTING UNDERGROUND ELECTRIC
——————————————————————————————————————	- EXISTING OVERHEAD ELECTRIC
IRRx —	- EXISTING IRRIGATION
Wx	- EXISTING WATER LINE
Gx	- EXISTING GAS LINE
SSx	- EXISTING SANITARY SEWER
CATV —	- EXISTING CABLE TV
	EXISTING STORM DRAIN
Q	EXISTING ELECTRIC POLE
O SPP	EXISTING ELECTRIC POLE
CO	EXISTING CLEANOUT
\Diamond	EXISTING LIGHT POLE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN JUNCTION



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KC I TECHNOLOGIES

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



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RFCSP # 2024-005

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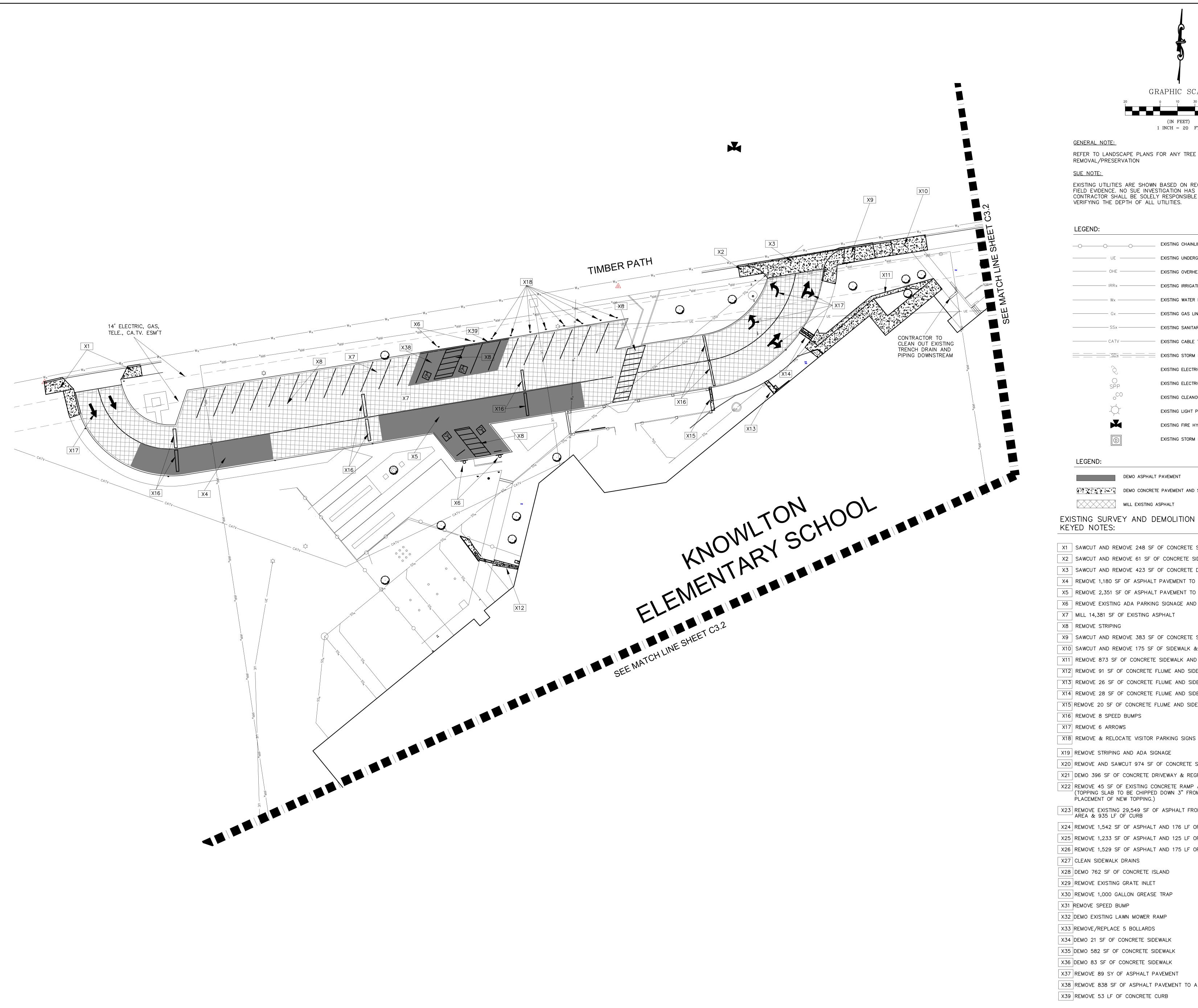
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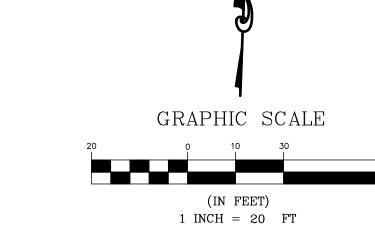
900 EVERS ROAD, BUILDII AN ANTONIO, TX 78238 EXISTING & DEMOLITION PLAN

NO. 76230350

KCI JOB NO. 762303504
DATE: 01-31-2024
DRAWN BY: AE
CHECKED BY: PAM
REVISIONS:

C3.0





GENERAL NOTE:

REFER TO LANDSCAPE PLANS FOR ANY TREE REMOVAL/PRESERVATION

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 CHAINLINK FENCE
	—— EXISTING UNDERGROUND ELECTRIC
OHE	EXISTING OVERHEAD ELECTRIC
IRRx	EXISTING IRRIGATION
Wx	EXISTING WATER LINE
Gx	EXISTING GAS LINE
SSx	EXISTING SANITARY SEWER
CATV	EXISTING CABLE TV
 SDx	EXISTING STORM DRAIN
Ś	EXISTING ELECTRIC POLE
O SPP	EXISTING ELECTRIC POLE
CO	EXISTING CLEANOUT
\Rightarrow	EXISTING LIGHT POLE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN JUNCTION

DEMO ASPHALT PAVEMENT DEMO CONCRETE PAVEMENT AND SIDEWALK

MILL EXISTING ASPHALT

X1 SAWCUT AND REMOVE 248 SF OF CONCRETE SIDEWALK & 33 LF OF CURB

X2 | SAWCUT AND REMOVE 61 SF OF CONCRETE SIDEWALK & 13 LF OF CURB X3 SAWCUT AND REMOVE 423 SF OF CONCRETE DRIVEWAY & 43 LF OF CURB

X4 REMOVE 1,180 SF OF ASPHALT PAVEMENT TO A FULL DEPTH

| X5 | REMOVE 2,351 SF OF ASPHALT PAVEMENT TO A FULL DEPTH

X6 REMOVE EXISTING ADA PARKING SIGNAGE AND VAN SPACE AS APPLICABLE

X7 MILL 14,381 SF OF EXISTING ASPHALT

X8 REMOVE STRIPING

X9 SAWCUT AND REMOVE 383 SF OF CONCRETE SIDEWALK & 35 LF OF CURB

| X10 | SAWCUT AND REMOVE 175 SF OF SIDEWALK & 20 LF OF CURB

X11 REMOVE 873 SF OF CONCRETE SIDEWALK AND SWALE

X12 REMOVE 91 SF OF CONCRETE FLUME AND SIDEWALK DRAIN

X13 REMOVE 26 SF OF CONCRETE FLUME AND SIDEWALK DRAIN

X14 REMOVE 28 SF OF CONCRETE FLUME AND SIDEWALK DRAIN

X15 REMOVE 20 SF OF CONCRETE FLUME AND SIDEWALK DRAIN

X16 REMOVE 8 SPEED BUMPS

X17 REMOVE 6 ARROWS

X18 REMOVE & RELOCATE VISITOR PARKING SIGNS TO NEW PARKING SPOTS

X19 REMOVE STRIPING AND ADA SIGNAGE

X20 REMOVE AND SAWCUT 974 SF OF CONCRETE SIDEWALK & 173 LF OF CURB

X22 REMOVE 45 SF OF EXISTING CONCRETE RAMP AND HANDRAILS AS WELL. (TOPPING SLAB TO BE CHIPPED DOWN 3" FROM TOP OF RAMP FOR PLACEMENT OF NEW TOPPING.)

X23 REMOVE EXISTING 29,549 SF OF ASPHALT FROM THE BUS LOOP AREA & 935 LF OF CURB

| X24 | REMOVE 1,542 SF OF ASPHALT AND 176 LF OF CURB

X25 REMOVE 1,233 SF OF ASPHALT AND 125 LF OF CURB

X26 REMOVE 1,529 SF OF ASPHALT AND 175 LF OF CURB

X27 CLEAN SIDEWALK DRAINS

X28 DEMO 762 SF OF CONCRETE ISLAND

| X29 | REMOVE EXISTING GRATE INLET

X31 REMOVE SPEED BUMP

X32 DEMO EXISTING LAWN MOWER RAMP

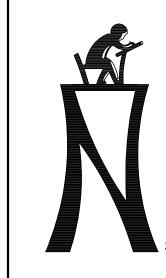
X33 REMOVE/REPLACE 5 BOLLARDS

X35 DEMO 582 SF OF CONCRETE SIDEWALK

X36 DEMO 83 SF OF CONCRETE SIDEWALK

X37 REMOVE 89 SY OF ASPHALT PAVEMENT X38 REMOVE 838 SF OF ASPHALT PAVEMENT TO A FULL DEPTH

X39 REMOVE 53 LF OF CONCRETE CURB





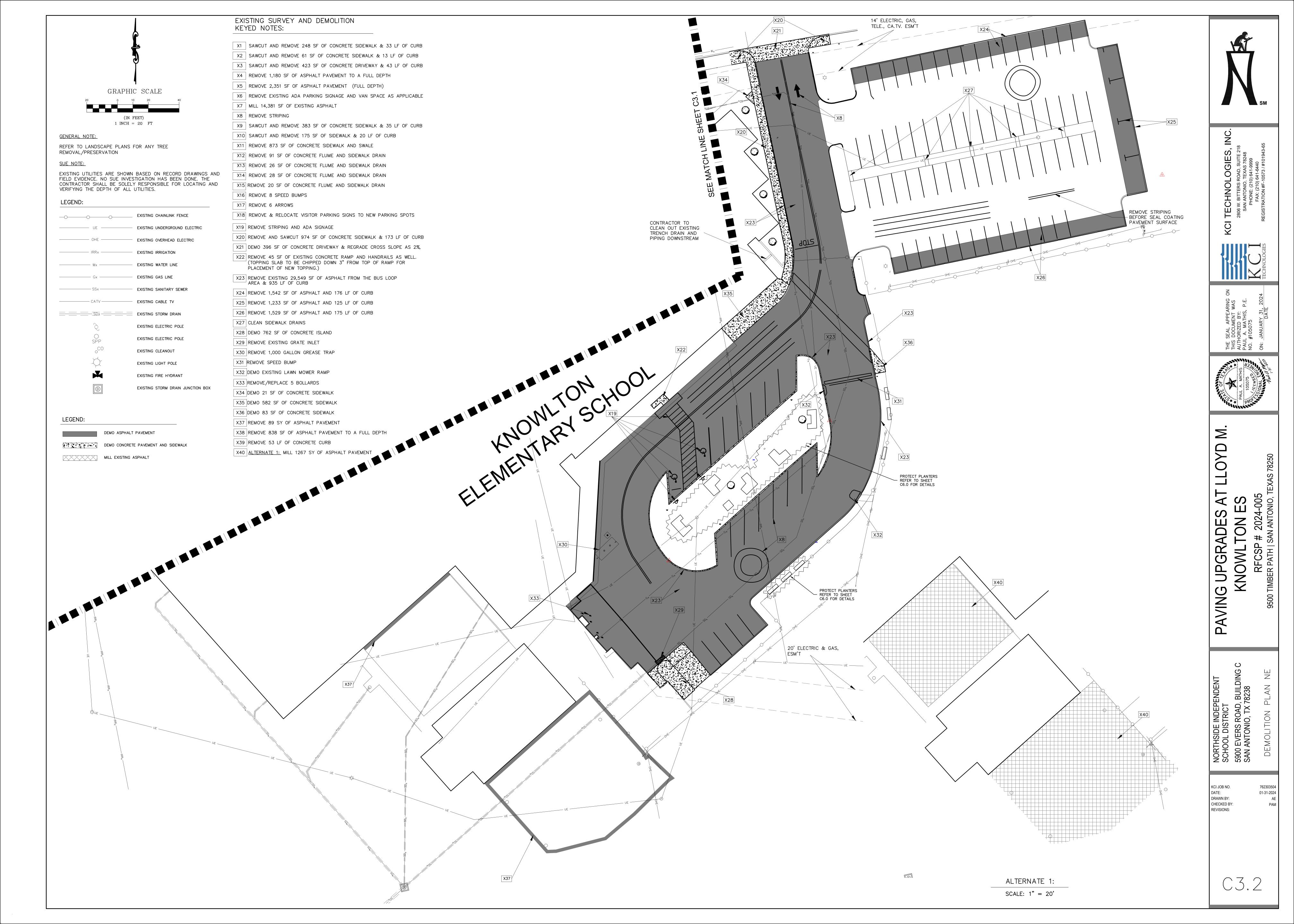


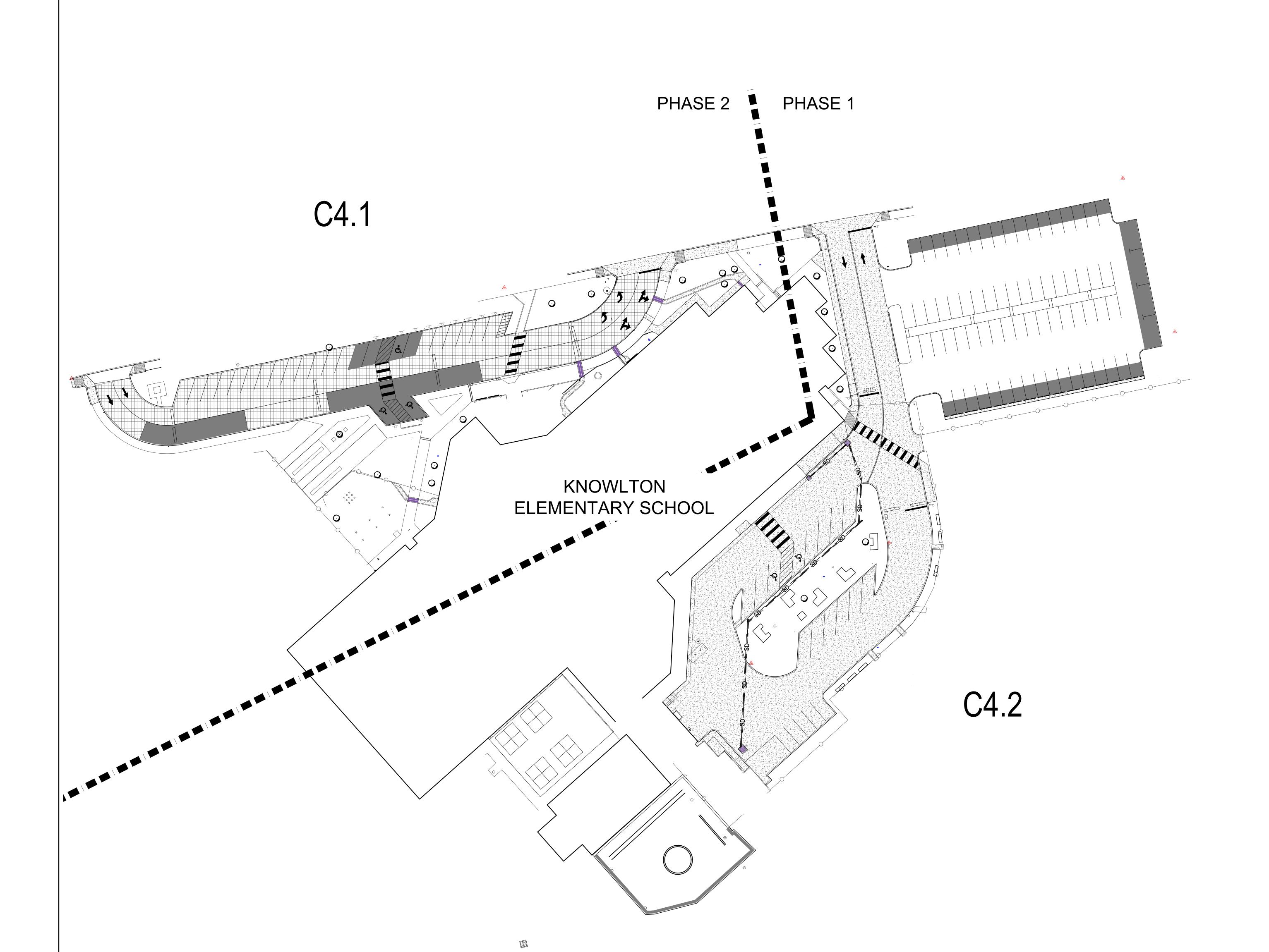
UPGRADE

PAVING

KCI JOB NO. 01-31-2024 DRAWN BY: CHECKED BY:

REVISIONS:

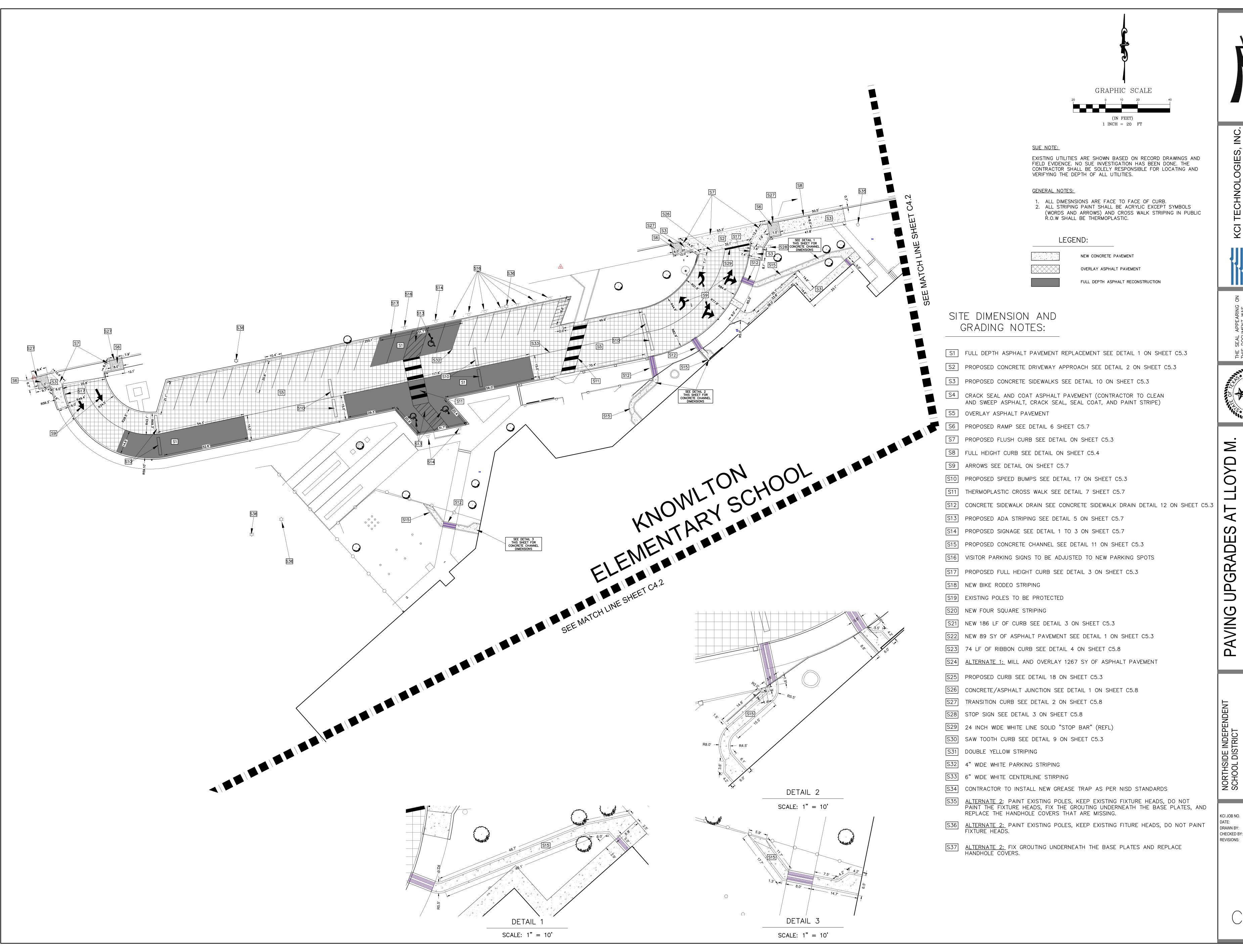


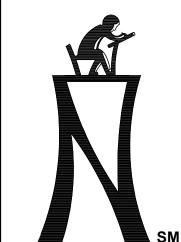




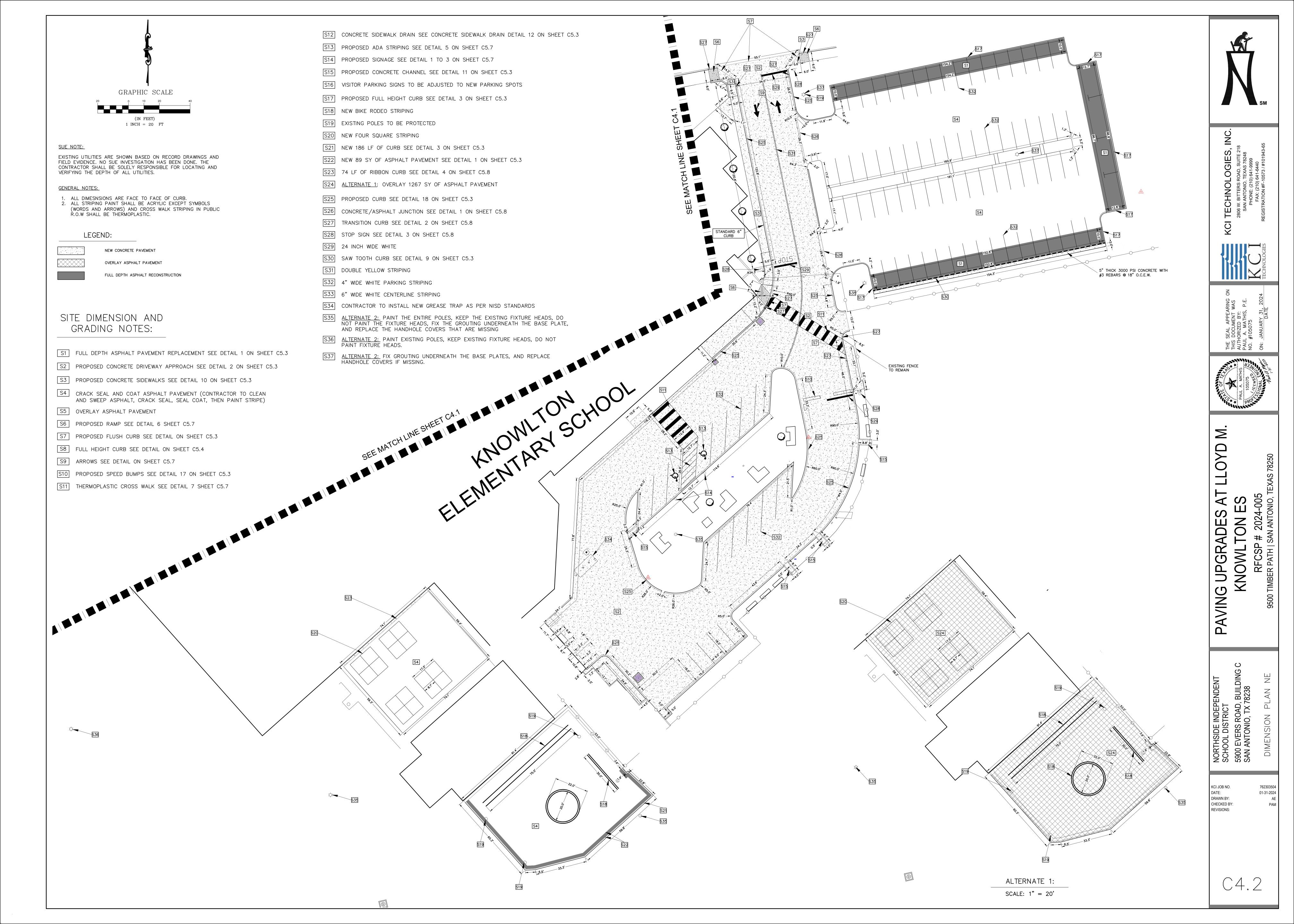
KCI JOB NO.
DATE:
DRAWN BY:
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REVISIONS:

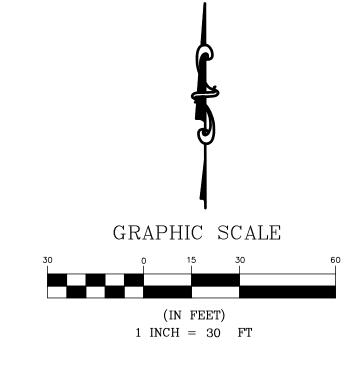
762303504 01-31-2024 AE PAM

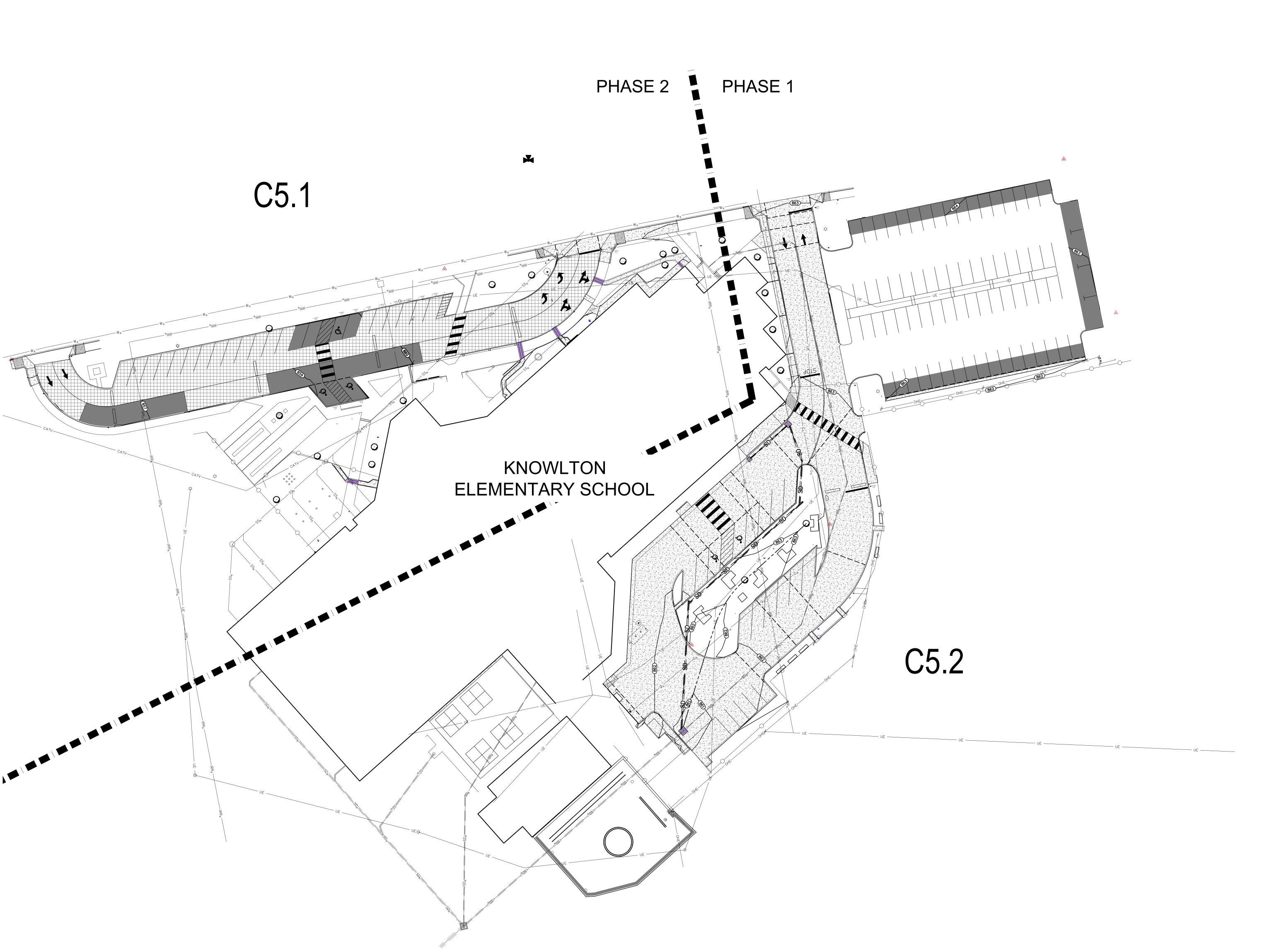


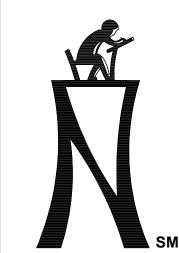


01-31-2024





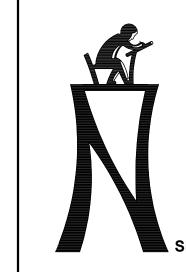






762303504 01-31-2024 AE PAM

KCI JOB NO.
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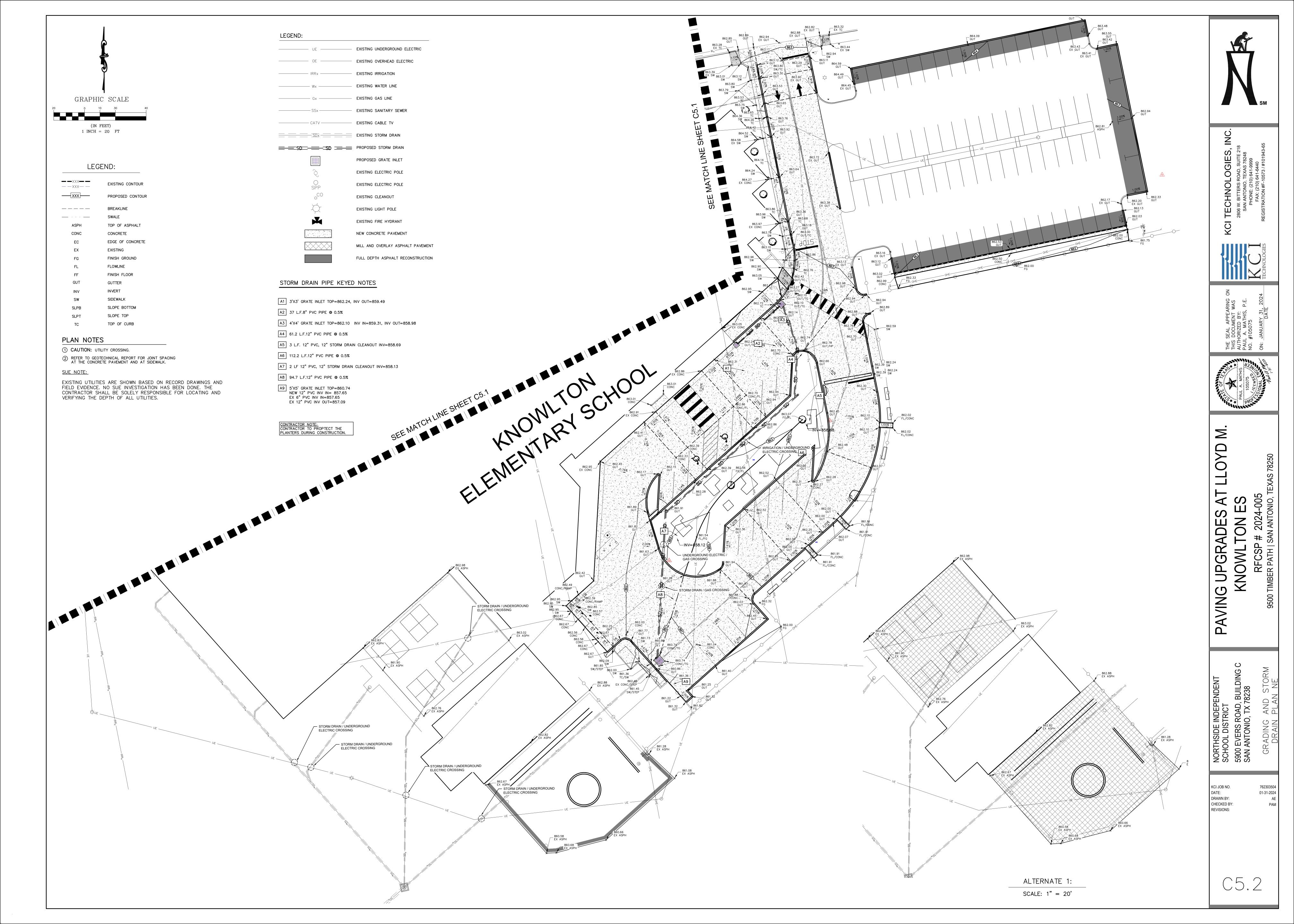


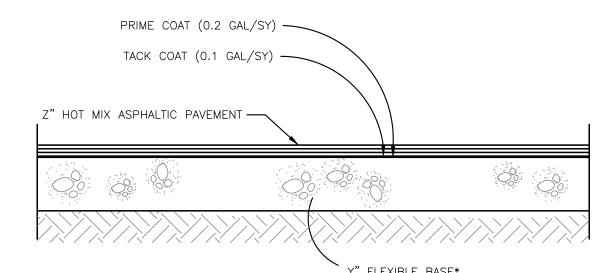
AT PAVING UPGRADES KNOWI

MILL AND OVERLAY ASPHALT PAVEMENT

01-31-2024

DATE: DRAWN BY: CHECKED BY: REVISIONS:

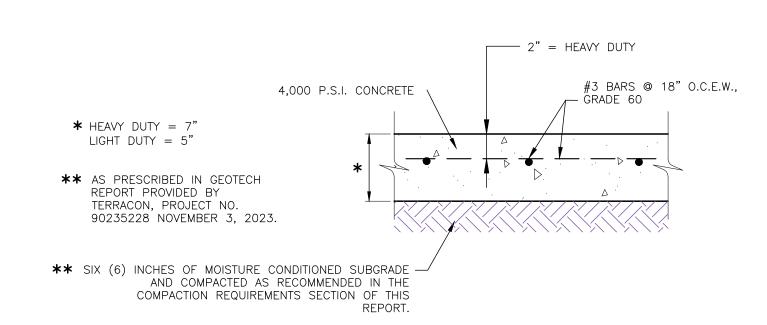




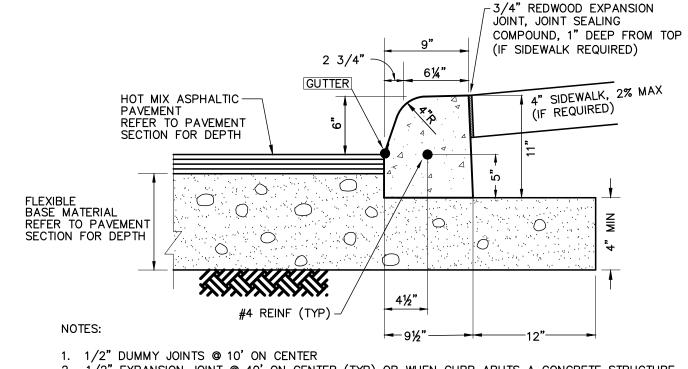
Y" FLEXIBLE BASE* (GRADATION AND DENSITY) AS PER GEOTECHNICAL REPORT*

TRAFFIC TYPE	Y" FLEXIBLE BASE	Z" HOT MIX ASPHALTIC PAVEMENT TYPE "D"	MOISTURE CONDITIONTED SUBGRADE
LIGHT DUTY PAVEMENT	8"	2"	6"
HEAVY DUTY PAVEMENT	12"	3"	6"

* AS PRESCRIBED IN GEOTECH REPORT PROVIDED BY TERRACON, PROJECT NO. 90235228 NOVEMBER 3, 2023.

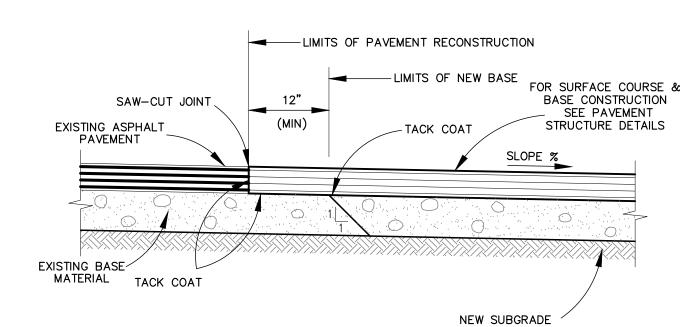


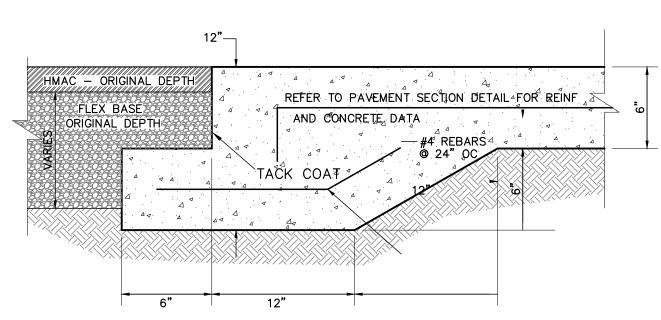
CONCRETE PAVEMENT



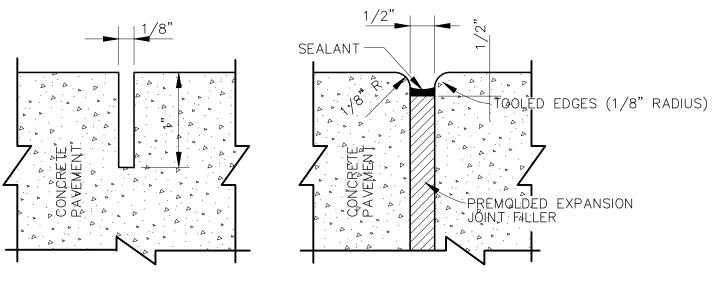
2. 1/2" EXPANSION JOINT @ 40' ON CENTER (TYP) OR WHEN CURB ABUTS A CONCRETE STRUCTURE CONCRETE SHALL BE f'c = 3,000 PSI, MAX 4" SLUMP (CSA PW ITEM 300 CLASS A) 4. IF NO SIDEWALK REQUIRED AT BACK OF CURB BACKFILL/SLOPE AS SHOWN ON PLANS 5. EXPOSED SURFACES TO BE CURED AS PER TXDOT "DMS-4650"; REFER TO TXDOT APPROVED SUPPLIER MATERIALS PRODUCER LIST, CURRENT VERSION. 6. REINFORCING STEEL SHALL COMPLY WITH TXDOT ITEM 440.

MACHINE LAID CURB COMMERCIAL USE

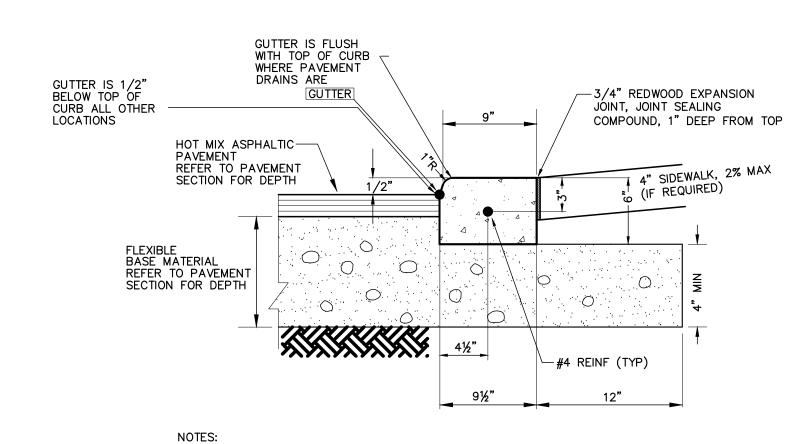




CONCRETE/ASPHALT PVMT JUNCTION DETAIL



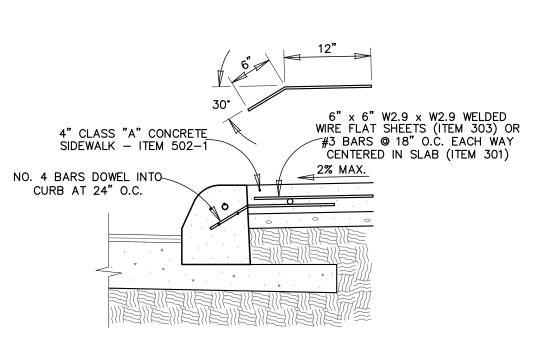
NOTES: 1. CONTROL JOINTS TO BE NO MORE THAN 10' APART. 2. EXPANSION JOINTS TO BE LOCATED WHERE CONCRETE PAVEMENT ABUTS THE STRUCTURAL SLAB WITH #4 DOWELS SPACED AT 18" O.C. AND @ 40' INTERVALS.



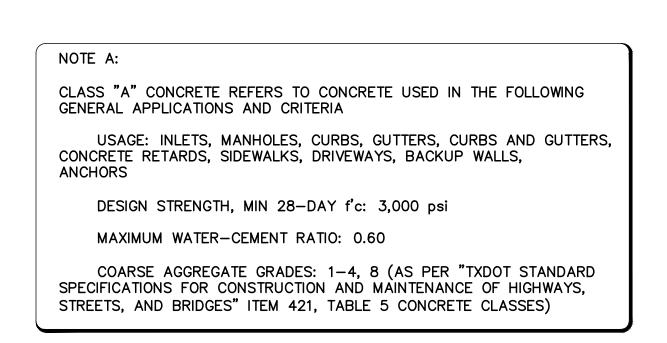
1. 1/2" DUMMY JOINTS @ 10' ON CENTER 2. 1/2" EXPANSION JOINT @ 40' ON CENTER (TYP) OR WHEN CURB ABUTS A CONCRETE STRUCTURE 3. CONCRETE SHALL BE f'c = 3,000 PSI, MAX 4" SLUMP (CSA PW ITEM 300 CLASS A) 4. IF NO SIDEWALK REQUIRED AT BACK OF CURB BACKFILL/SLOPE AS SHOWN ON PLANS 5. EXPOSED SURFACES TO BE CURED AS PER TXDOT "DMS-4650"; REFER TO TXDOT APPROVED SUPPLIER MATERIALS PRODUCER LIST, CURRENT VERSION.

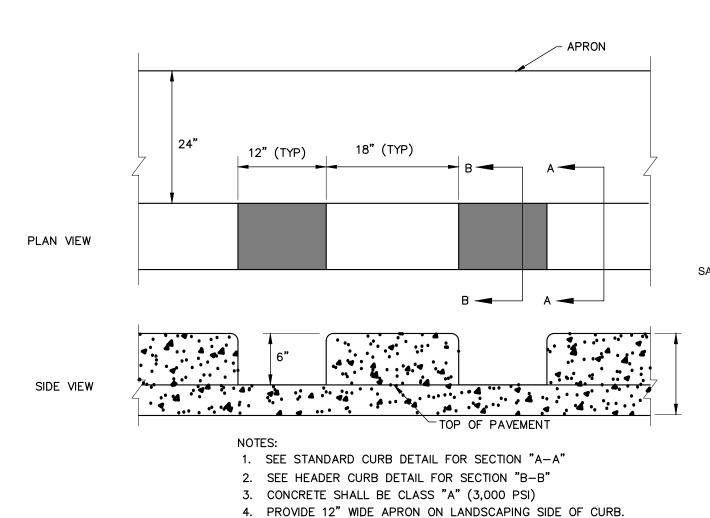
6. REINFORCING STEEL SHALL COMPLY WITH TXDOT ITEM 440.

MACHINE LAID FLUSH CURB COMMERCIAL USE



CONCRETE SIDEWALK ABUTTING CURB SECTION





(9)

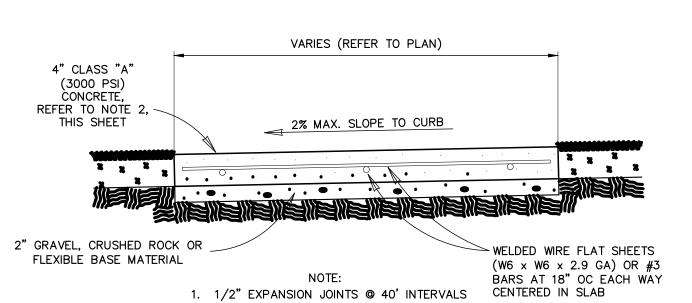
SAWTOOTH CURB TOEDOWN DETAIL

CURB

2%__

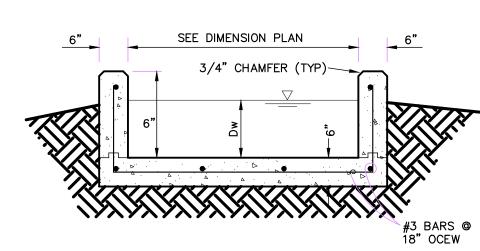
3"

#4 BARS — @ 12" O.C.



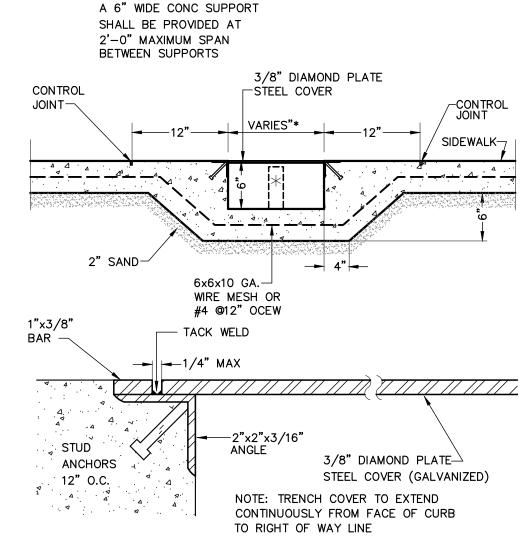
2. DUMMY JOINTS @ 10' ON CENTER

1. CONCRETE SHALL BE f'c=3000 PSI, MAX 1" AGGREGATE (TXDOT ITEM 421, CLASS A, 4" SLUMP. 2. REINFORCING STEEL SHALL COMPLY WITH TXDOT ITEM 440. 3. EXPANSION JOINTS AT 30' MAX PERPINDICULAR TO FLOW LINE; CONTRACTION JOINTS AT 10' MAX. 4. WALLS MAY BE FORMED/EMPLACED SEPARATELY FROM SLAB WITH CONSTRUCTION JOINTS. 5. REFER TO PLANS FOR WALL EXPOSURE HEIGHT ABOVE GROUND IF APPLICABLE. 6. CONTRACTOR SHALL EMPLACE MIN 4" SAND UNDER SLAB UNLESS SUBGRADE IS ROCK. 7. EXPOSED SURFACES TO BE CURED AS PER TXDOT "DMS-4650"; REFER TO TXDOT APPROVED SUPPLIER MATERIALS PRODUCER LIST, CURRENT 8. APPLY 3/4" CHAMFER TO EXPOSED CONCRETE EDGES.

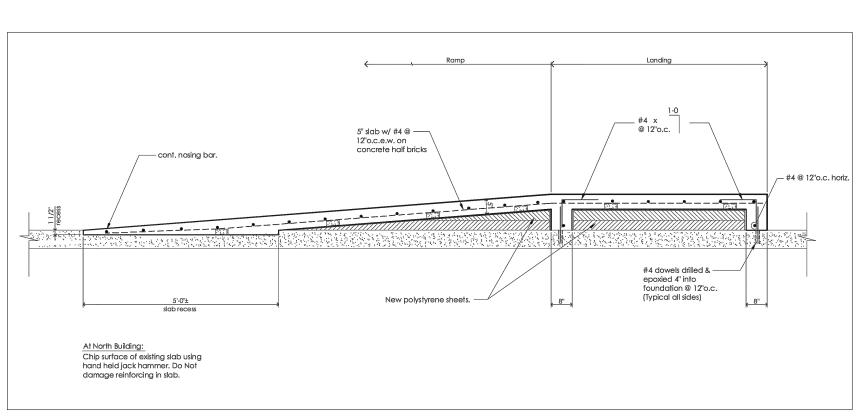


 st SEE PLAN. WHERE WIDTH

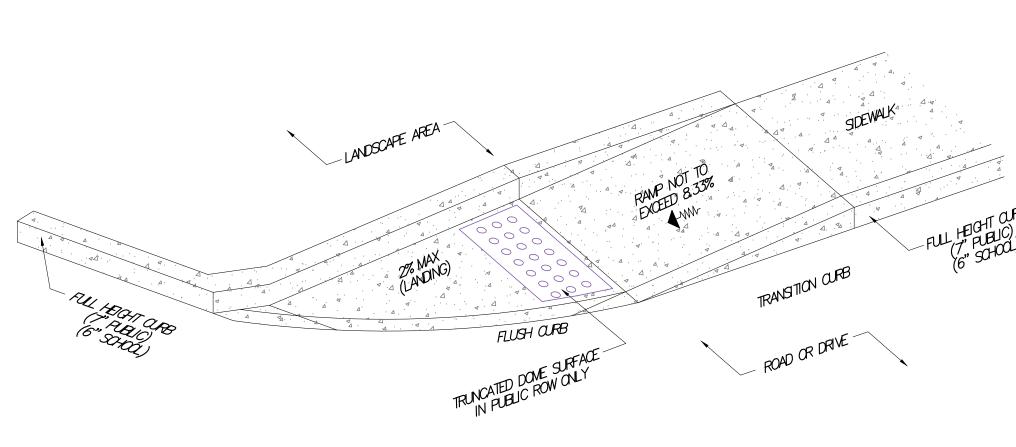
EXCEEDS TWO (2) FEET,



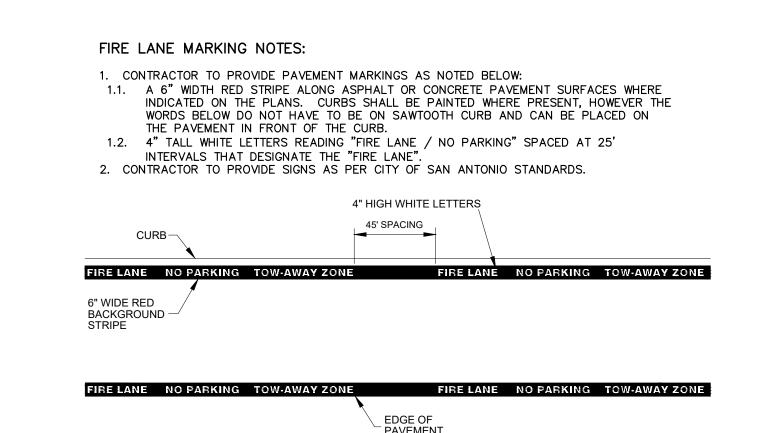
SIDEWALK DRAIN (12)



(13) TYPICAL RAMP DETAIL AT EXISTING CONCRETE



TYPICAL RAMP DETAIL AT DRIVEWAYS



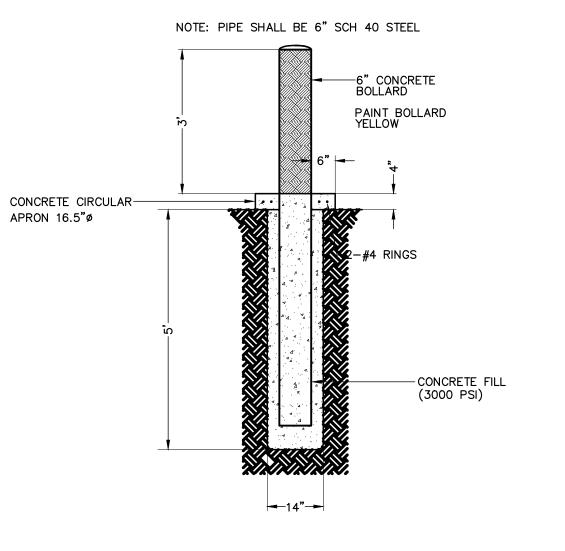
FIRE LANE



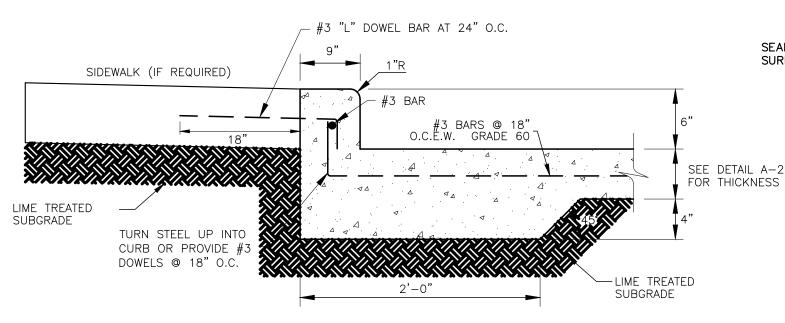
FIRE LANE STRIPING ON PAVEMENT

FIRE LANE CITY ORD. 5454

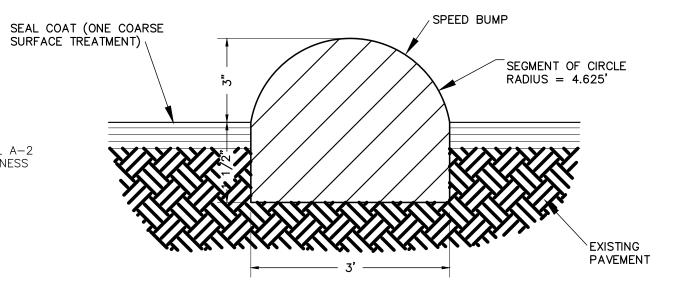
FIRE LANE STRIPING



6" PIPE/CONCRETE BOLLARD



CURB DETAIL FOR CONCRETE PAVEMENT



RAISED PAVEMENT UNDULATION

TECHNOLOGIES
806 W. BITTERS ROAD, SUITE
SAN ANTONIO, TEXAS 78248

X

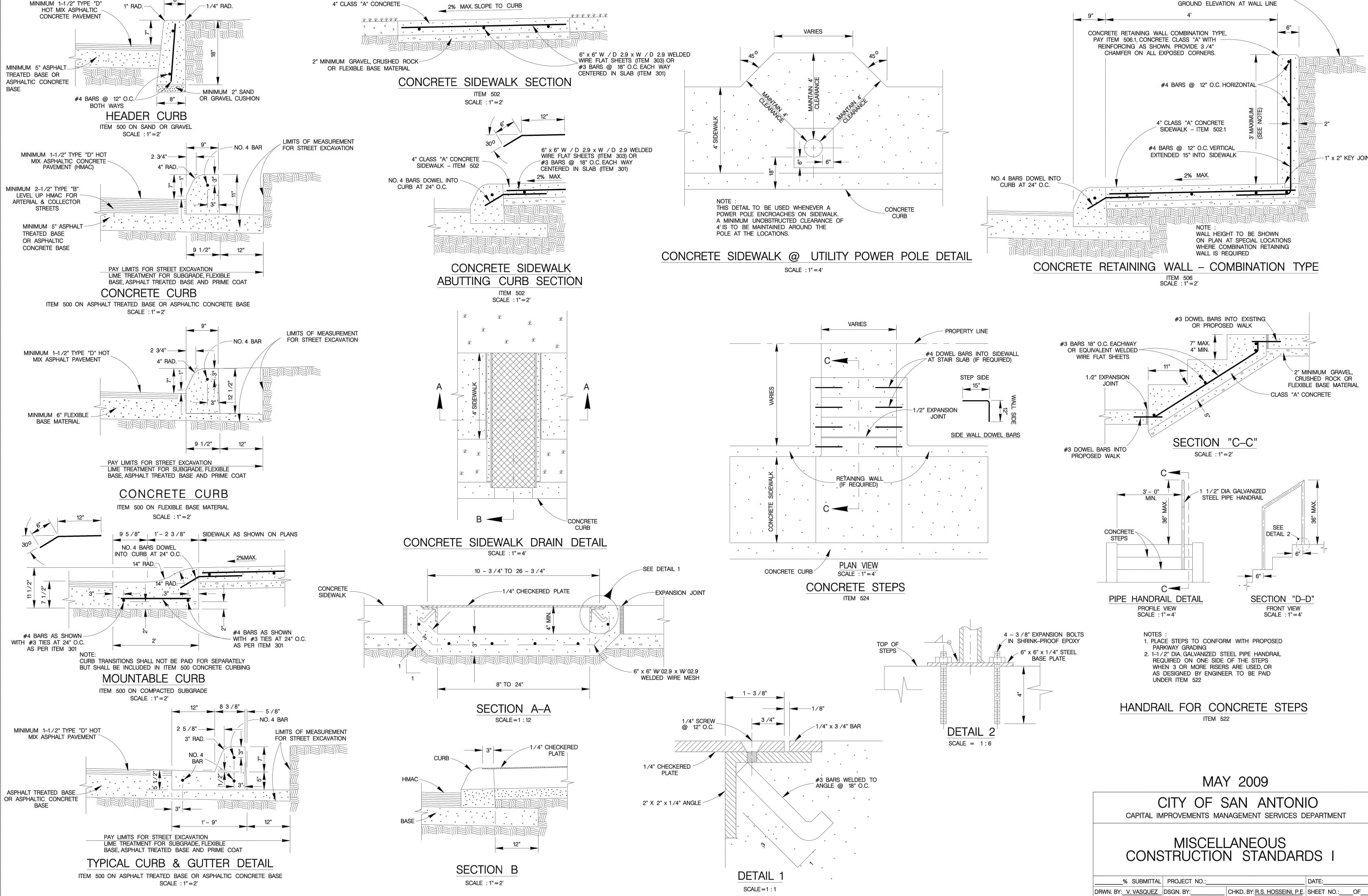
UPGRADE AVIN

01-31-2024

KCI JOB NO. DRAWN BY: CHECKED BY REVISIONS:

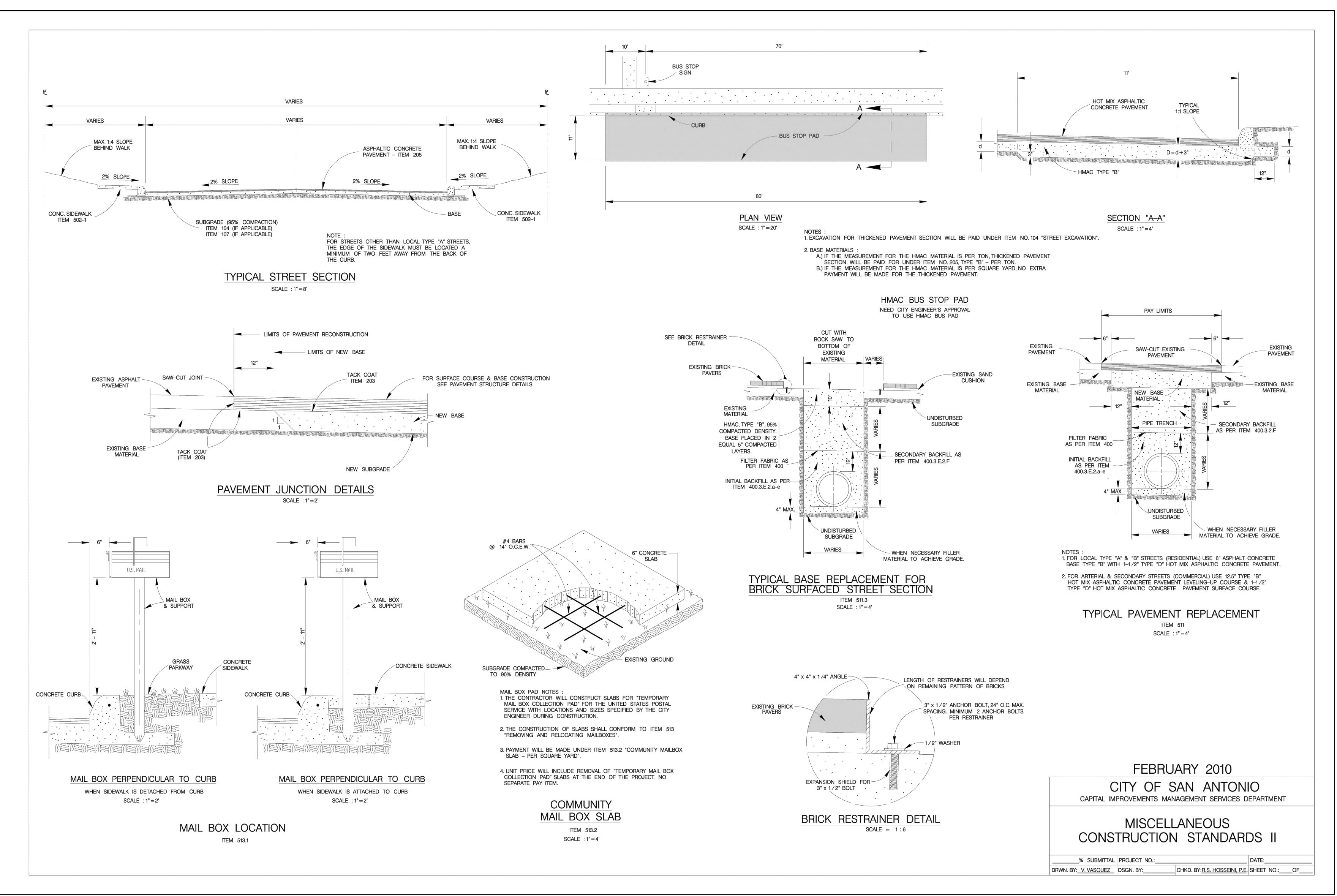
EXTEND TOP OF WALL TO MATCH EXISTING.

KCI JOB NO. DATE: DRAWN BY: CHECKED BY REVISIONS:



KCI JOB NO. 762303504
DATE: 01-31-2024
DRAWN BY: AE
CHECKED BY: PAM
REVISIONS:

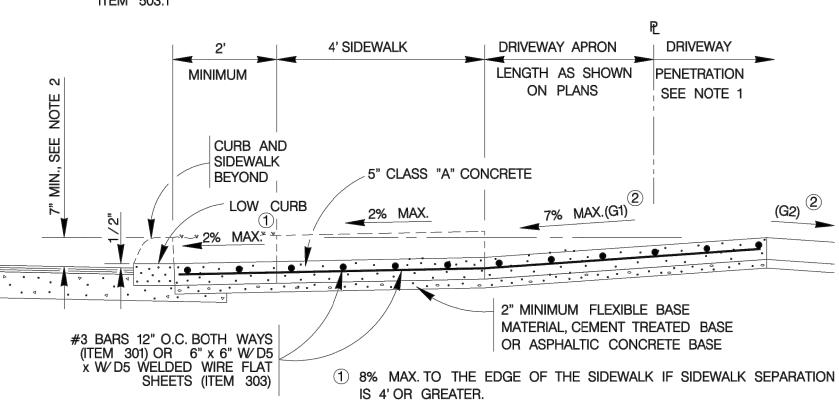
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X

DRIVEWAY APRON 4' SIDEWALK LENGTH AS SHOWN | PENETRATION MINIMUM ON PLANS SEE NOTE 1 CURB AND SIDEWALK BEYOND 5" CLASS "A" CONCRETE LOW CURB MATERIAL, CEMENT TREATED BASE #3 BARS 12" O.C. BOTH WAYS (ITEM 301) OR 6" x 6" W/ D5 OR ASPHALTIC CONCRETE BASE x W/D5 WELDED WIRE FLAT SHEETS (ITEM 303) $^{\prime}$ 8% max. To the edge of the sidewalk if sidewalk separation

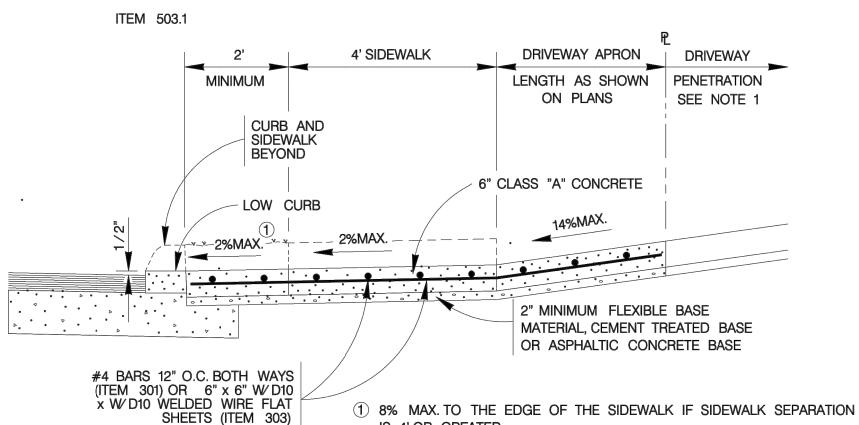
> WITH SIDEWALK SEPARATED FROM CURB ITEM 503.1



2 THE ALGEBRAIC DIFFERENCE OF G1 & G2 SHALL BE 14% OR LESS

TYPICAL RESIDENTIAL DRIVEWAY SECTION

WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS SEPARATED FROM CURB



IS 4' OR GREATER. TYPICAL COMMERCIAL DRIVEWAY SECTION WITH SIDEWALK SEPARATED FROM CURB

ITEM 503.2

. 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:

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

2. 7" MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY

TYPE	MINIMUM	MAXIMUM
RESIDENTIAL	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	24'	30'

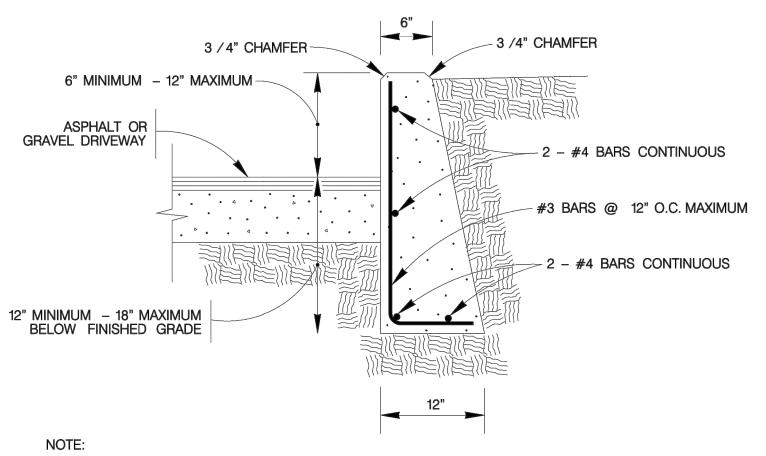
4. FOR LOCAL TYPE "A" STREETS, SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 2' FROM THE BACK OF CURB.

5. 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

6. 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.

7. 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 CROSS SLOPE SHALL NOT EXCEED 2%.



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.

ITEM 307.1

DRIVEWAY - CONCRETE RETAINING WALL ON COMPACTED SUBGRADE

TYPICAL DRIVEWAY PLAN VIEW WITH SIDEWALK SEPARATED FROM CURB MAY 2009

VARIES

2' MAX.

EXPANSION JOINT

SEE NOTE 7

RESIDENTIAL 7

MAX.

VARIES

2' MAX.

SEE NOTE 7

SLOPE (1:12)

IS 4' OR GREATER.

2) 45° FOR COMMERCIAL DRIVEWAY

EXPANSION JOINT

2' MIN. SEE NOTE 4

RESIDENTIAL

SLOPE (1:12)

MAXIMUM

CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TOP OF ASPHALT PAVEMENT

TOP OF ASPHALT PAVEMENT -

SLOPE (1:12)

MAXIMUM

WHERE RETAINING WALL COMBINATION TYPE IS REQUIRED AT DRIVEWAYS, IT

SHALL BE CONSTRUCTED AS SHOWN

1/2" EXPANSION JOINT

SEE NOTE 6

VARIES

MATERIAL OR 3 / 4" REDWOOD

4' - 0"

WHERE RETAINING WALL COMBINATION TYPE IS REQUIRED AT DRIVEWAYS, IT

SHALL BE CONSTRUCTED AS SHOWN

PROPERTY LINE

1/2" EXPANSION JOINT
MATERIAL OR 3/4" REDWOOD
OR CYPRESS WOOD JOINT

OR CYPRESS WOOD JOINT

VARIES

VARIES

SEE NOTE 3

② RESIDENTIAL : 2' MAXIMUM; COMMERCIAL: SEE PLAN VIEW

CURB PROFILE AT DRIVEWAY

VARIES

SEE NOTE 3

(2) 45° FOR COMMERCIAL DRIVEWAY

TYPICAL DRIVEWAY PLAN VIEW

VARIES

SEE NOTE 3

② RESIDENTIAL : 2' MAXIMUM; COMMERCIAL: SEE PLAN VIEW

CURB PROFILE AT DRIVEWAY

VARIES

SEE NOTE 3

) 8% MAX. TO THE EDGE OF THE SIDEWALK IF SIDEWALK SEPARATION

WITH SIDEWALK SEPARATED FROM CURB

CONCRETE

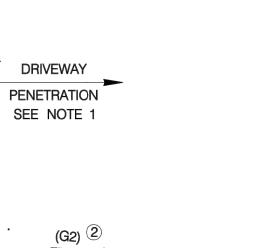
WITH SIDEWALK ABUTTING CURB

WITH SIDEWALK ABUTTING CURB

CONCRETE DRIVEWAY STANDARDS

DRWN. BY: V. VASQUEZ DSGN. BY: CHKD. BY: R.S. HOSSEINI, P.E. SHE	IEET NO.:OF	

IS 4' OR GREATER. TYPICAL RESIDENTIAL DRIVEWAY SECTION



CURB & SIDEWALK 5" CLASS "A" CONCRETE 2" MINIMUM FLEXIBLE BASE MATERIAL, CEMENT TREATED BASE OR ASPHALTIC CONCRETE BASE (ITEM 301) OR 6" x 6" W/D5 x W/D5 WELDED WIRE FLAT

SHEETS (ITEM 303) (2) THE ALGEBRAIC DIFFERENCE OF G1 & G2 SHALL BE 14% OR LESS

DRIVEWAY APRON LENGTH

AS SHOWN ON PLANS

DRIVEWAY APRON LENGTH

AS SHOWN ON PLANS

5" CLASS "A" CONCRETE

2" MINIMUM FLEXIBLE BASE

MATERIAL, CEMENT TREATED

BASE OR ASPHALTIC CONCRETE

PENETRATION

SEE NOTE 1

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

4' SIDEWALK

#3 BARS 12" O.C. BOTH WAYS (ITEM 301) OR 6" x 6" W/ D5 x W/ D5 WELDED WIRE FLAT

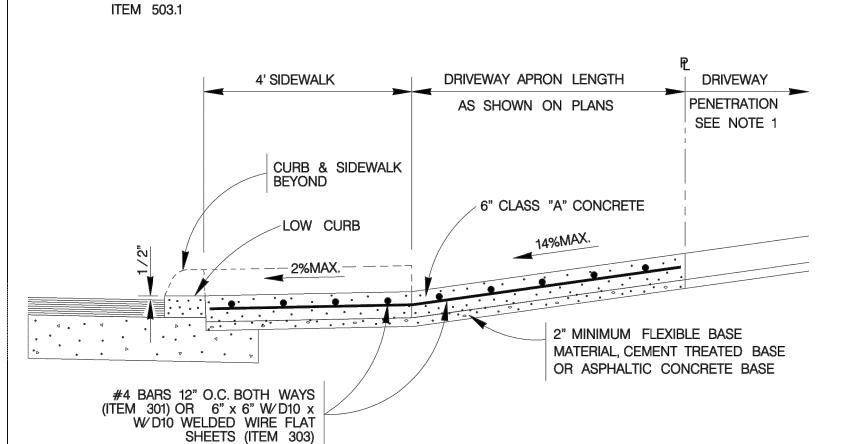
ITEM 503.1

WITH SIDEWALK ABUTTING CURB

4' SIDEWALK

CURB & SIDEWALK BEYOND

TYPICAL RESIDENTIAL DRIVEWAY SECTION



TYPICAL COMMERCIAL DRIVEWAY SECTION

WITH SIDEWALK ABUTTING CURB ITEM 503.2

CONCRETE DRIVEWAY NOTES

A.) CONCRETE DRIVEWAY PAID FOR UNDER ITEM NO. 503.1 OR 503.2.

PENETRATION ON PRIVATE PROPERTY.

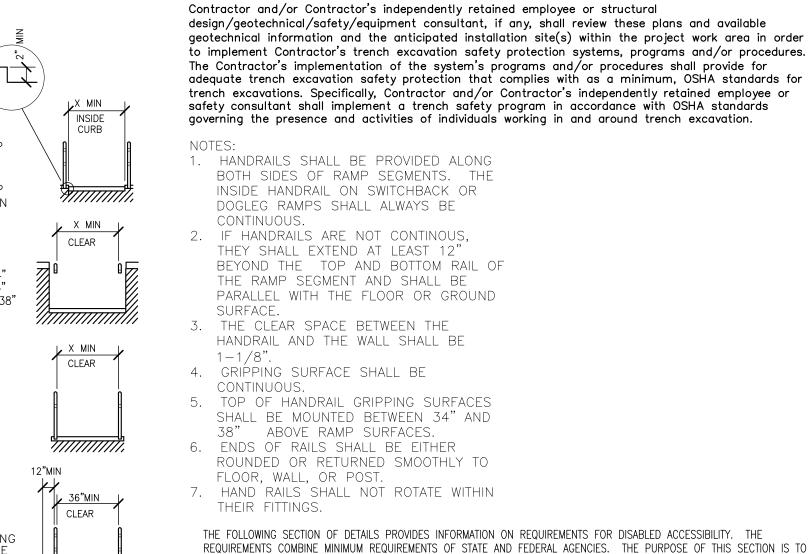
3. THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6'WHEN LOCATED AT THE BACK OF CURB.

8. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS,

9. SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.

KCI JOB NO. 01-31-2024 DRAWN BY: CHECKED BY **REVISIONS**:



ACCESSIBILITY STANDARDS (TAS) AND AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COPIES OF THESE DOCUMENTS MAY BE OBTAINED BY CONTACTING THE FOLLOWING: OFFICE OF THE SECRETARY OF STATE TEXAS REGISTER DIVISION P.O. BOX 13824 AUSTIN, TEXAS 78711-3824 (512) 463-5569 FAX (512) 463-5581 TDD (800) 735-2989

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

SOUTHWEST DISABILITY AND BUSINESS

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

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

TRENCH EXCAVATION SAFETY PROTECTION

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.

1. DOORS AND OPENINGS: A. 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 B. 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, tight 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 form both sides. Doors to hazardous aeas such as loading platforms, boiler rooms, mechanical and electrical rooms, stage, 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

C. Door Closer: If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open posittion 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 will take at least three seconds to move to a joint 3 inches form the latch, measured to the leading edge of the door.

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 form the hinged side, whichever is father from the hinge. For sliding of folding doors, the force shall be applied parallel to the door at the door pull or latch. (1) Exterior hinged doors shall not exceed 8.5 lbf. Slight increase in opening force shall be allowed where

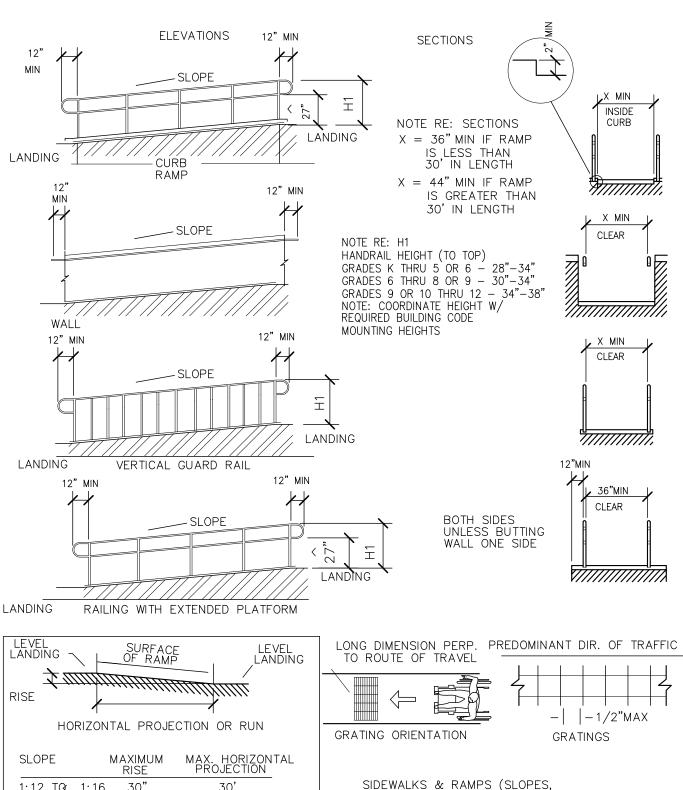
8.5 lbf is insufficient to compensate for air pressure differentials. Sliding doors, folding doors, and interior hinged doors shall not require a force exceeding five lbf. Fire doors may be adjusted to meet the minimum opening force allowed by the governing authority or

CONTROLS AND OPERATING MECHANISMS: A. 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, papertowel dispensers, etc. (1) Clear Floor Space:

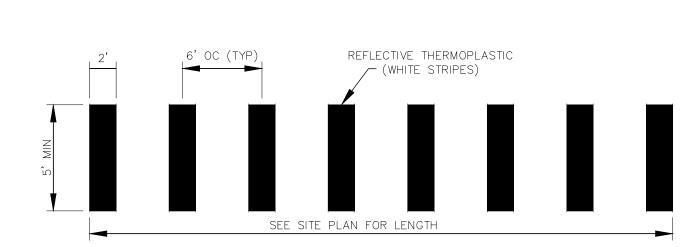
A clear floor space that allows a forward or parallel approach by a person using a wheelchair shall be provided at all controls, dispensers, receptacles, and other operable equipment. The space shall never be less than an area 30 x 48 inches. The highest operable part of any control, dispenser, receptacle, and other operable equipment shall be no higher form 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. controls and operating mechanisms shall be operabel 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

- A. 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 (1) 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 an upper case "X" for measurement. Color Contrast:
- Characters and symbols shall have contrast with their background. Tactile Characters and Symols:
- Characters, symbols, or pictographs on signs required to be tactile, shall be raised 1/32 in. minimum. Letters and numbers shall be sans seif characters; shall be at least 5/8 in. high, but should be no higher than 2 in.; and shall be proportioned in accordance with subparagraph 3.A.1) above.
- (4) 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.



EDGE PROTECTION, HANDRAIL EXTENSIONS, AND GRATING)

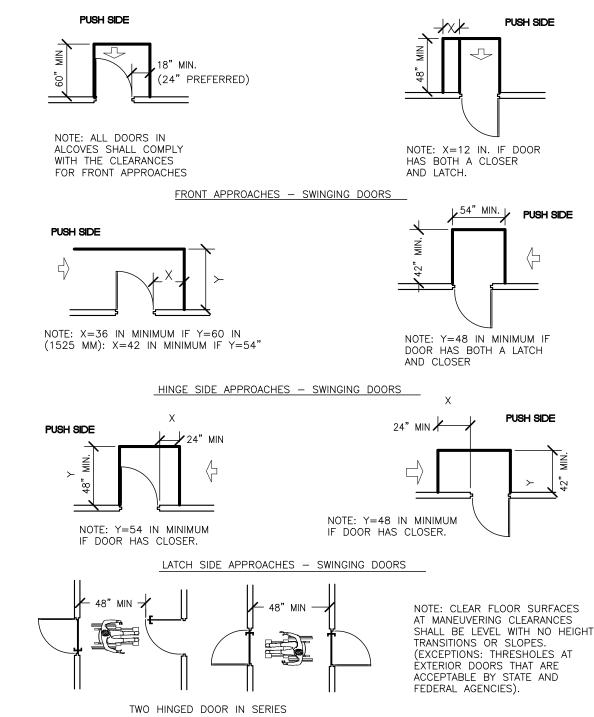


SIDEWALKS & RAMPS

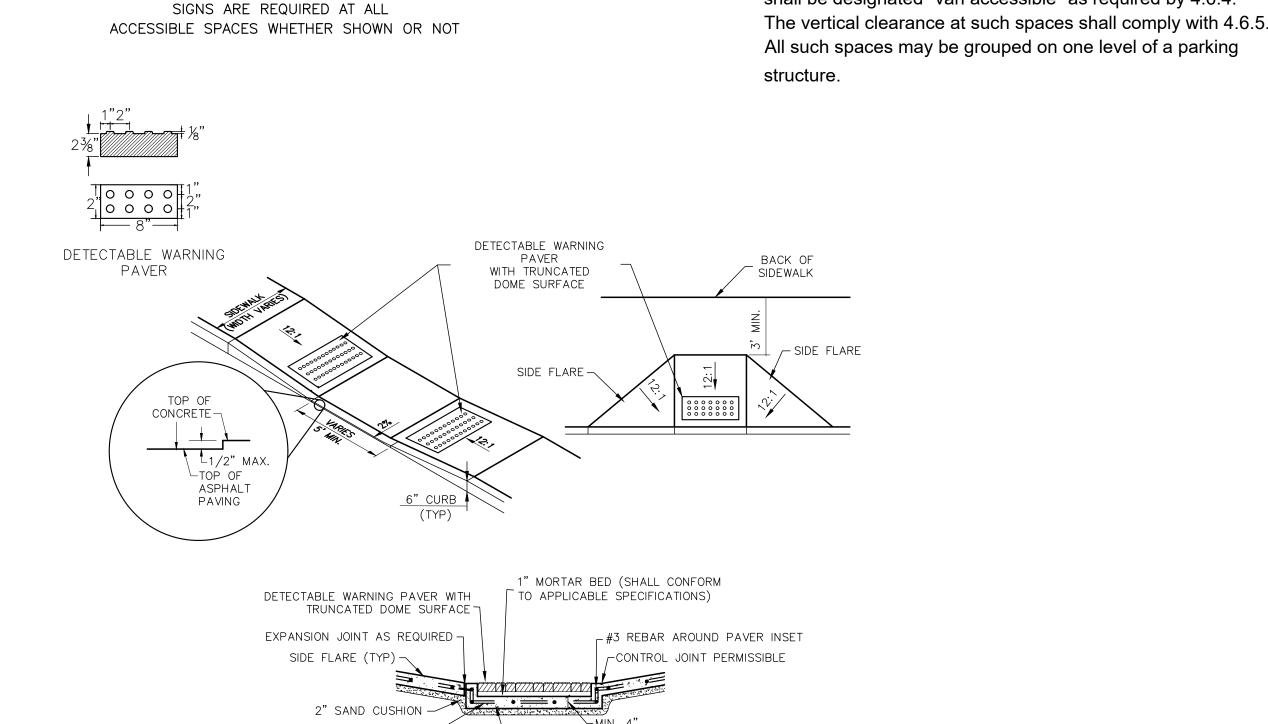
1:16 TO< 1:20 30"

CROSS SLOPE SHALL NOT EXCEED 1:50

PEDESTRIAN CROSS WALK STRIPING



MANEUVERING CLEARANCES @ DOORS / GATES



DISABLED SIGN

PROVIDE ONE SIGN AT EACH

RESERVED FOR THE DISABLED

-SEE HEADER CURB DETAIL

4" WIDE STRIPES @ 45°

TO PARKING, SPACED @ 12" O.C.

- * SEE PROJECT ADA NOTE

* SEE DIMENSIONAL SITE

PLAN FOR WIDTH

ON THIS SHEET

₋12"Wx18"H "RESERVED PARKING"

HANDICAP SIGN W/12"x9"H FINE

STIPULATION SIGN, (SEE DETAILS THIS SHEET)

SEE DIMENSIONAL SITE

PLAN FOR WIDTH OF WALK

DISABLED PARKING SPACE

Note: Characters and symbols on such signs shall be located 60" min. above the ground, floo

or paving surface so they cannot be obscured by a vehicle parked in the space.

SLOPE 12:1

HANDICAP MARKINGS

RESERVED FOR THE DISABLED _

RESERVED PARKING

\$50-200 FINE

" 12"~ X 48" " DEEP CONC. PIER

HANDICAP SYMBOL PAINTED IN THE FIELD ON THE

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

PAVEMENT FOR EACH ADA SPACE SHALL BE

WITH OWNER PRIOR TO INSTALLATION.

THIS SPACE

RESERVED FOR

(6'-0" AT VAN SPACES)

VAN SIGN

SAFETY YELLOW

ACCESSIBLE

BOLTS WITH CAPS

-SIGN AS SPECIFIED

— 2" Ø STANDARD STEEL

SIGN PIPE SUPPORT

Required Minimum Number

of Accessible Spaces

2% of Total

20 Plus 1 for each 100 over 1000

Table 2, Section 4.1.2 TDLR Architectural Barriers Act

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.

"Accessible Parking Space Requirements"

Total Parking

In Lot

1 to 25

26 to 50

51 to 75

76 to 100

101 to 150 151 to 200

201 to 300

301 to 400

401 to 500

501 to 1000

1001 and Over

TUBING OR AS SCHEDULED

—CLASS "B" CONCRETE

LEGEND AND BORDER — GREEN WHITE SYMBOL ON BLUE BACKGROUND BACKGROUND — WHITE

STAINLESS STEEL $(1/4" \times 3")$

PARKING

PRIMARY SIGN

12"

\$50-200 FINE

PERMIT

PROJECT ADA NOTE:

WITHOUT VEHICLE $\parallel^9"$

PENALTY SIGN

DISABLED SIGN: VAN ACCESSIBLE SIGN

60" WHEN AUTO EACH SIDE

ACCESS AISLE AT AUTOMOBILE

DISABLED SIGN

SEE GRADING PLAN

RAMPED WALK —

12:1

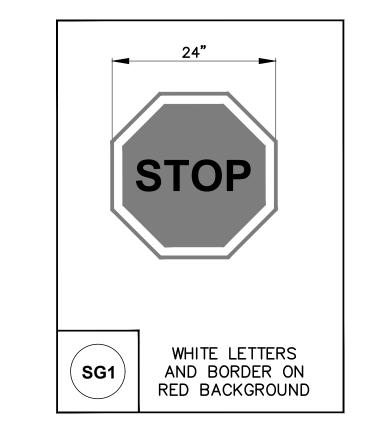
FOR LOCATION OF

PASSENGER LOADING ZONES

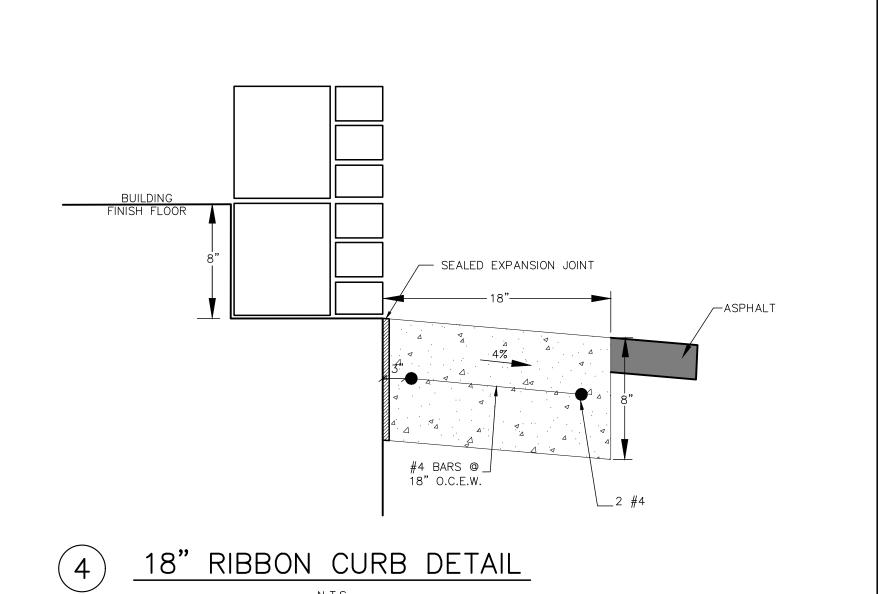
CONCRETE/ASPHALT PAVEMENT JUNCTION DETAIL

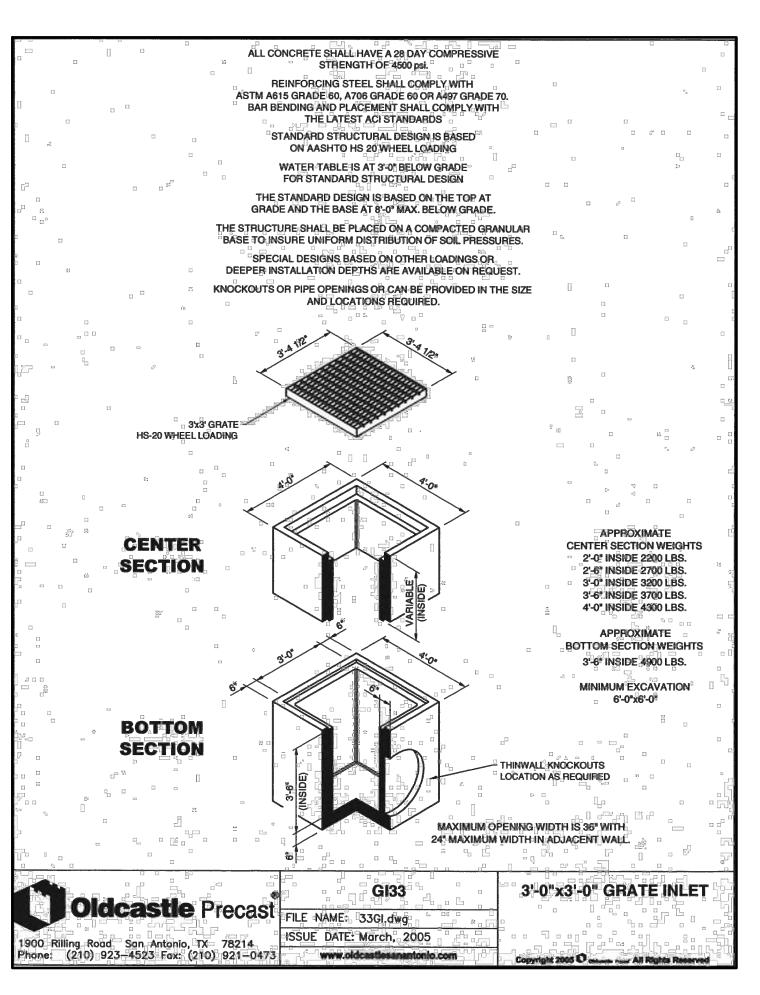
PROPOSED CURB CONTRACTOR SHALL TRIM AND OTHERWISE PRODUCE -A SMOOTH FINISH TO CURB TRANSITION TRANSITION LENGTH OF RAMP

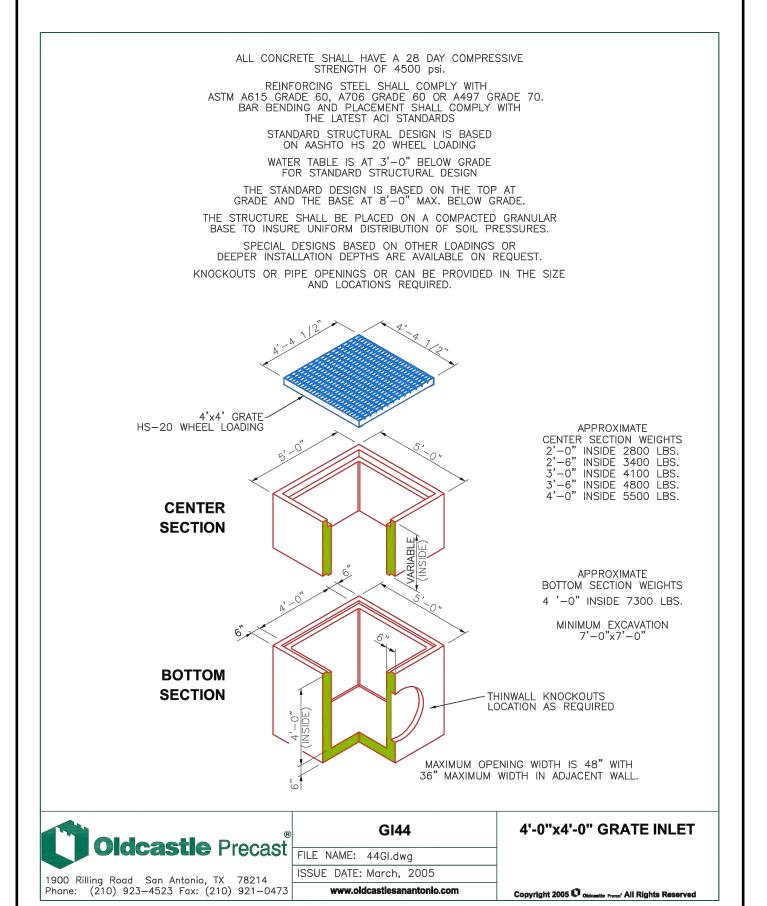
TAPERED CURB TRANSITION DETAIL

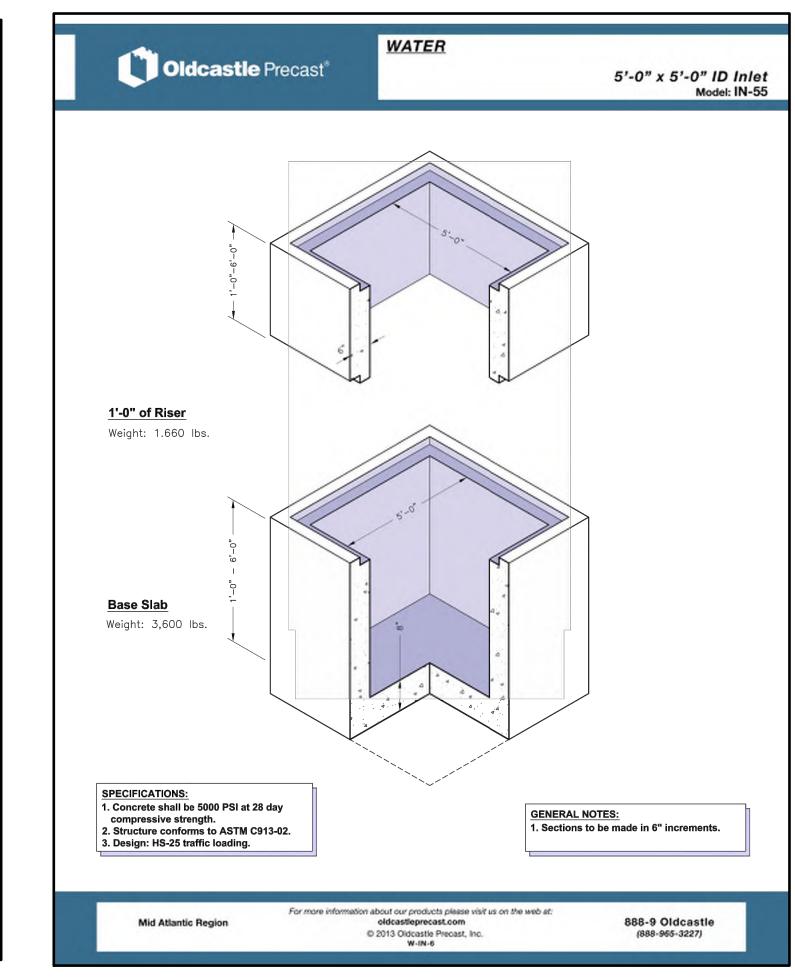


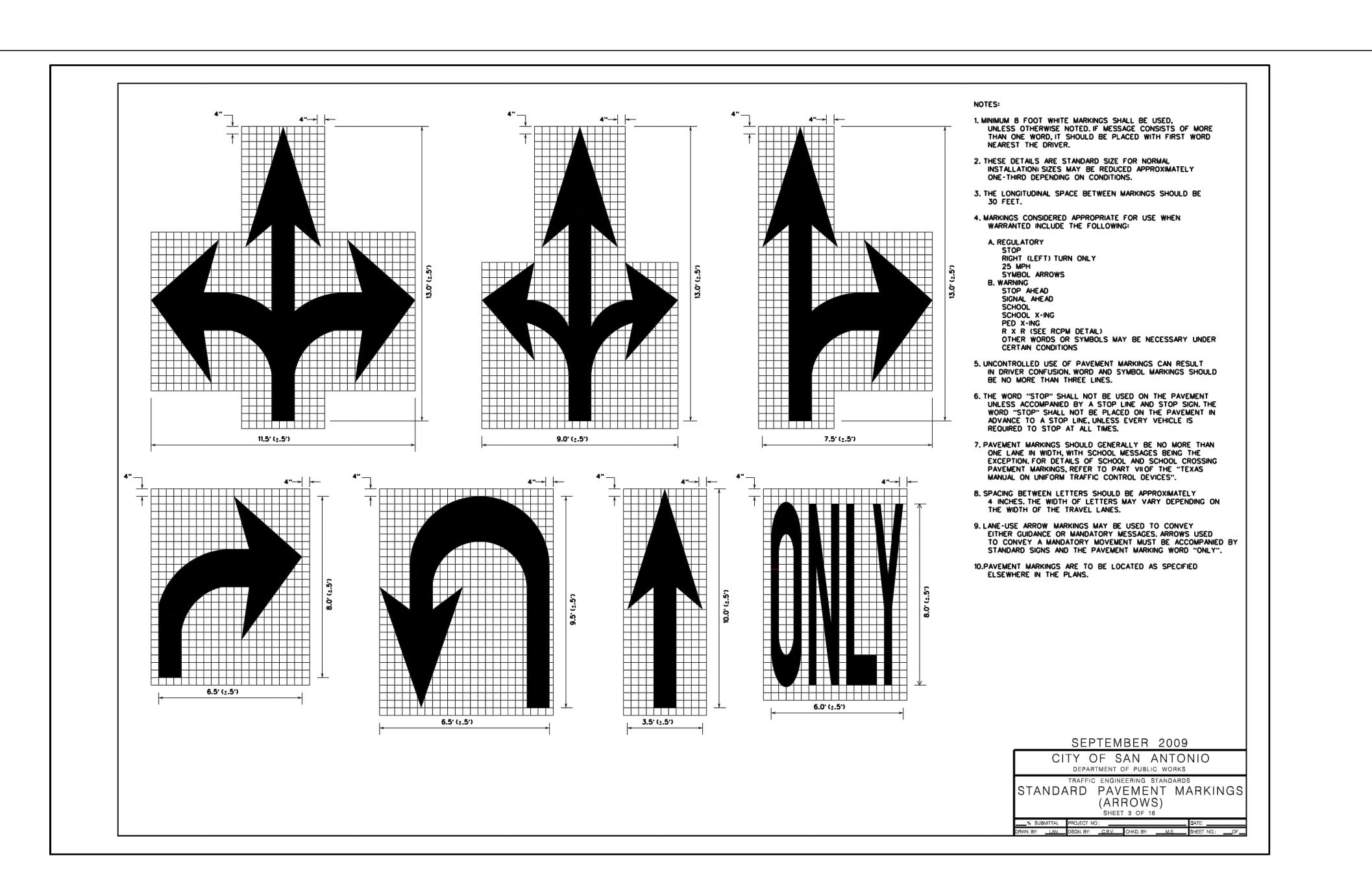
STOP SIGN DETAIL

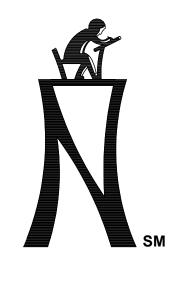








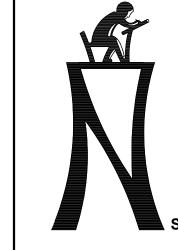


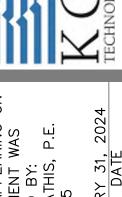


TECHNOLOGIES, I 2806 W. BITTERS ROAD, SUITE 218 SAN ANTONIO, TEXAS 78248 PHONE: (210) 641-9999

AT **UPGRADES** 2024 NO O **PAVING**

DATE:
DRAWN BY:
CHECKED BY:
REVISIONS: 01-31-2024



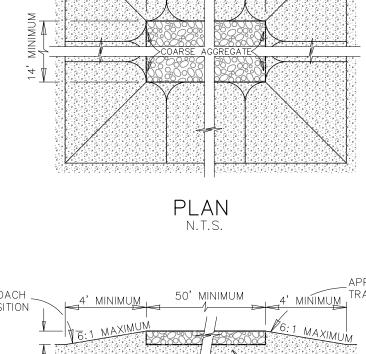


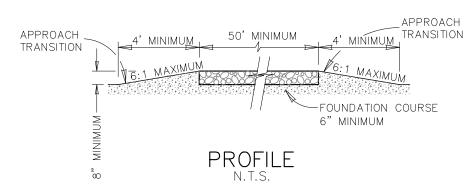


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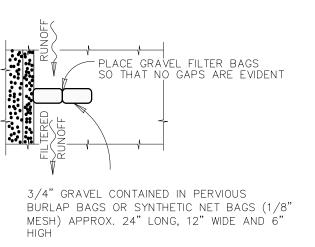
01-31-2024

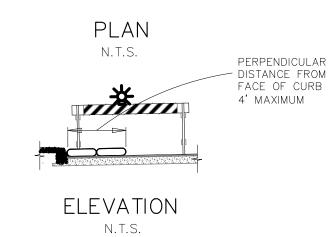




- GENERAL NOTES 1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
- 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8". 3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- 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.

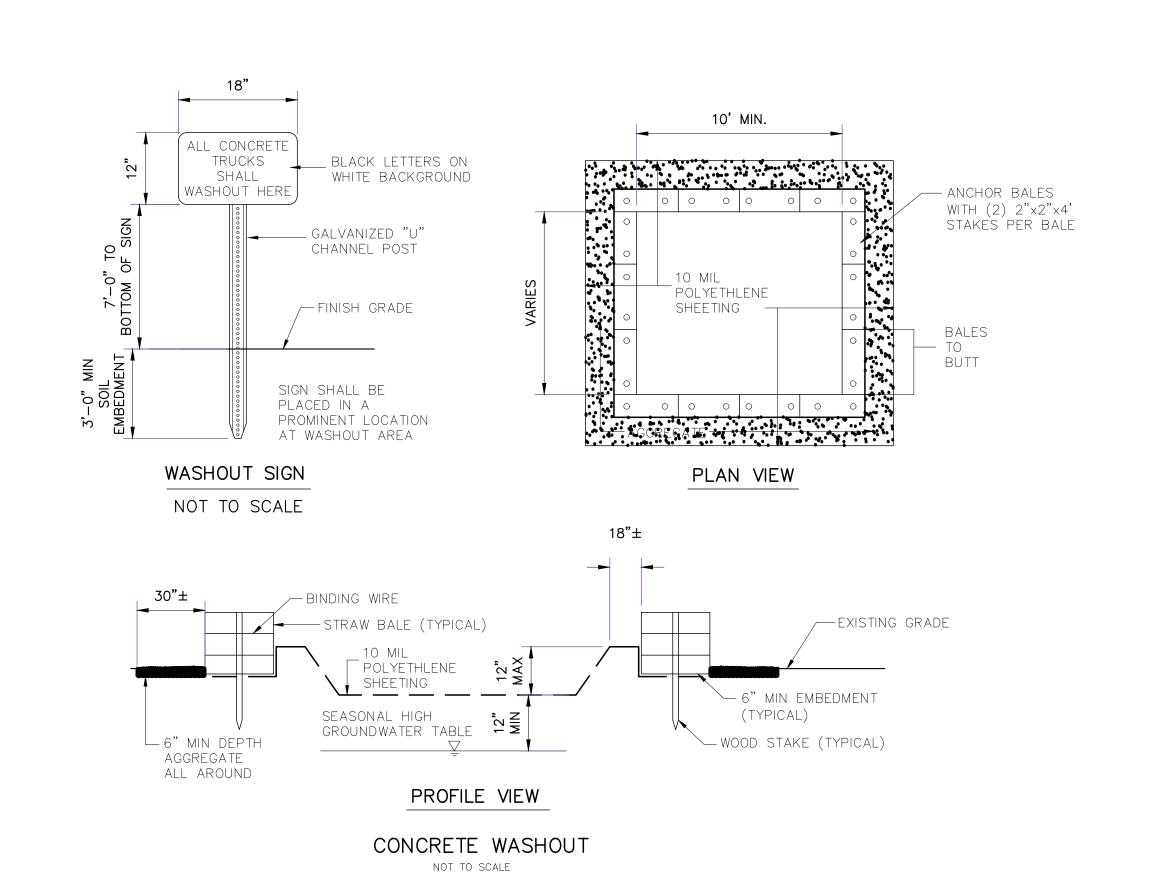
CONSTRUCTION EXIT - TYPE 1





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



FILTER FABRIC . 3' MINIMUM WIDTH

BACKFILL & HAND TAMP—

, GALVINIZED WELDED WIRE MESH

ATTACH THE W.W.M. AND FABRIC ON END POSTS USING 4 EVENLY SPACED STAPLES FOR WOODEN POSTS (OR 4 T-CLIPS OR SEWN VERTICAL POCKETS FOR STEEL POSTS).

PLACE 4" TO 6" OF FABRIC AGAINST THE TRENCH SIDE AND APPROXIMATELY 2" ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" SQUARE. BACKFILL AND HAND TAMP.

N.T.S.

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

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

TEMPORARY SEDIMENT CONTROL FENCE

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-

(12.5 GAUGE MINIMUM). MAXIMUM

OPENING SIZE SHALL BE 2" x 4" ♦ WOVEN FILTER FABRIC —

EMBED POSTS 18" MINIMUM OR ANCHOR IF IN ROCK

FASTEN FABRIC TO TOP STRAND OF WELDED

WIRE MESH (W.W.M.) BY HOG RINGS OR

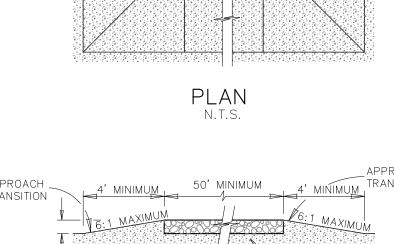
CORD AT A MAXIMUM SPACING OF 15".

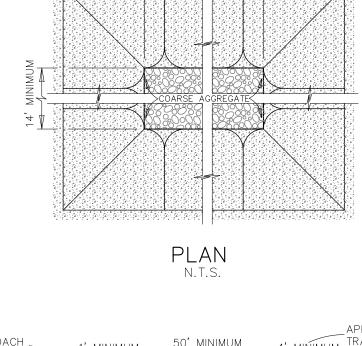
4' MINIMUM STEEL OR WOOD POSTS SPACED AT 6' TO 8'. SOFTWOOD

ightharpoonup posts shall have a minimum cross section of 1.5" x 1.5".

CONNECT THE ENDS OF SUCCESSIVE REINFORCEMENT SHEETS OR ROLLS A MINIMUM OF 6 TIMES WITH HOG RINGS.

POSTS SHALL BE 3" MINIMUM DIAMETER OR NOMINAL 2" x 4". HARDWOOD





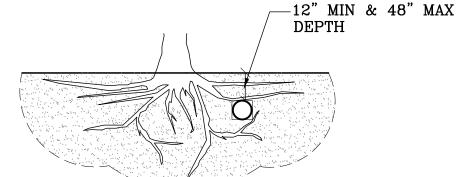
X

LEVEL IIA MINIMUM 5'
FROM THE TRUNK
RPZ LEVEL I

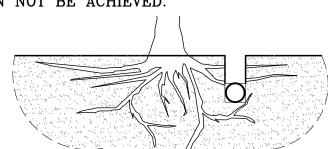
(ROOT PROTECTION ZONE) -ROOT PROTECTION ZONE—THE ROOT PROTECTION ZONE IS A CIRCULAR AREA AROUND A TREE THAT IS THE SAME LIMITS AS THE DRIP LINE OF THE TREE.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS TROUGH 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.

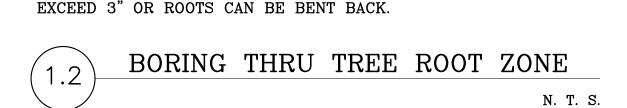
TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.

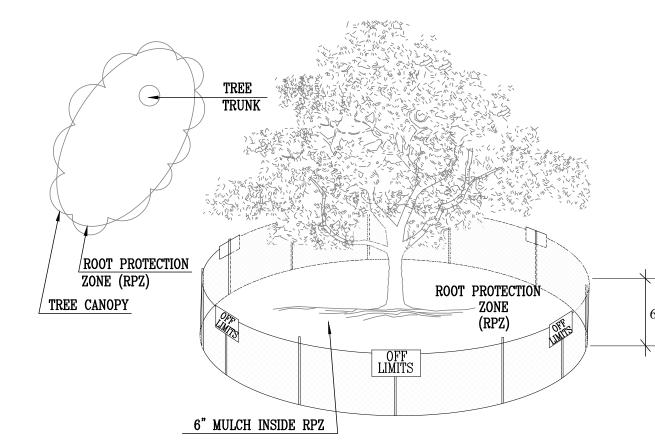


TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



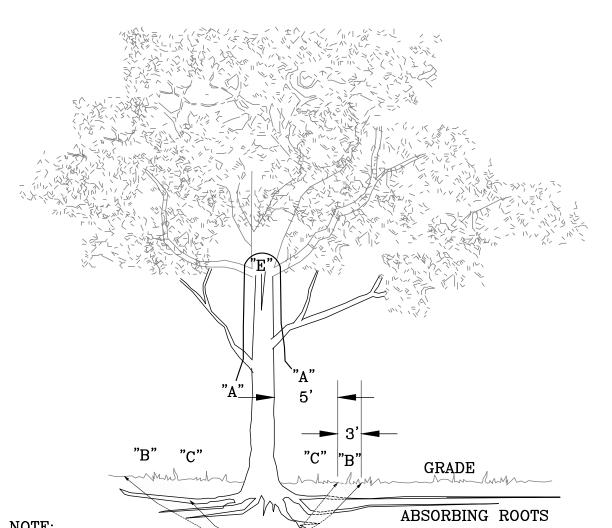
OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT





1. THE FENCING SHOWN ABOVE IS DIAGRAMMATIC ONLY AND WILL 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.

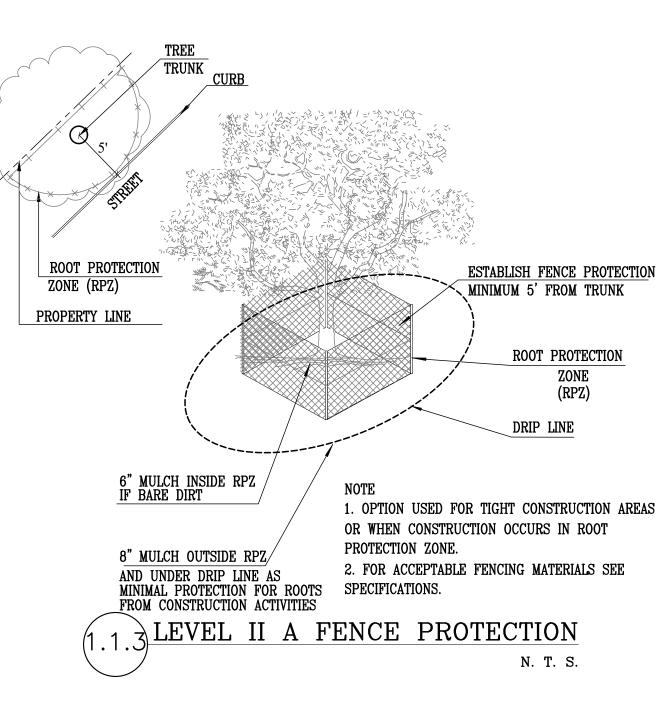
1.1.2 LEVEL I & FENCE PROTECTION N. T. S.

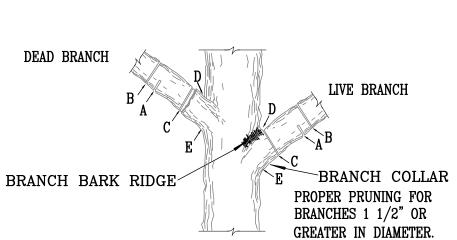


A" REMOVE BULKY TREE PARTS "SHRED" AND/OR HAUL SEPARATELY. "B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK - CUT THRU ANCHOR ROOTS AT AN ANGLE - 3' TO 4' DEEP "C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE

AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.) "D" BACKFILL HOLE AND CLEAN UP.

TREE REMOVAL DIAGRAM



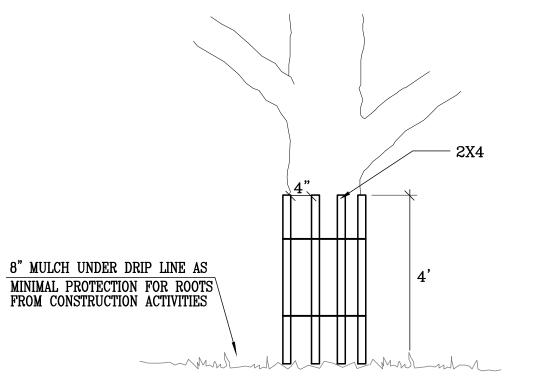


A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.

NOTE: DO NOT CUT FROM D to E.

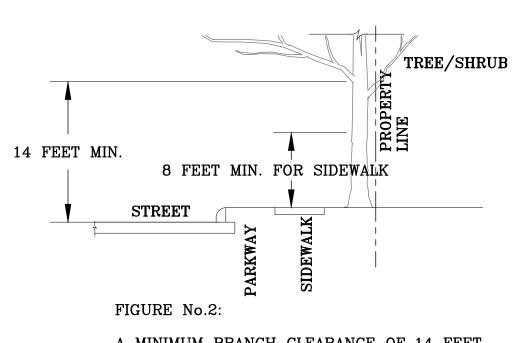
- B. SECOND CUT TO REDUCE THE WEIGHT OF BRANCH. C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS D. BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES
- WHICH ARE SITE FOR DECAY. FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.





WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.



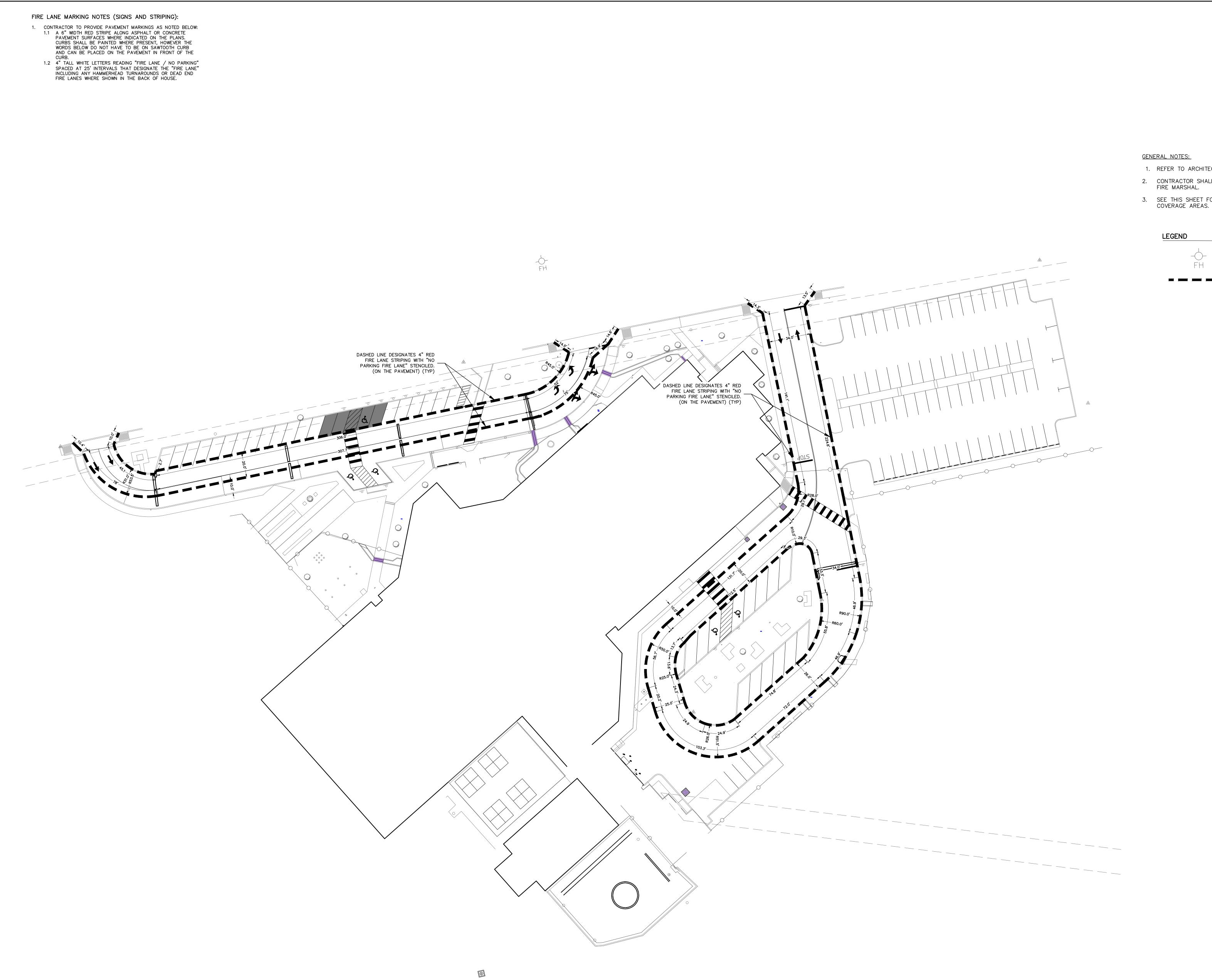


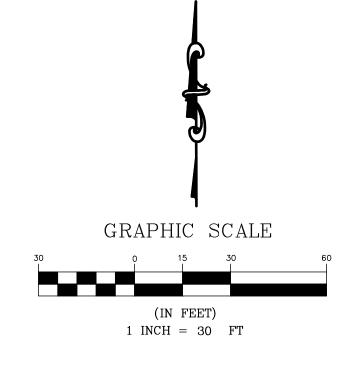
A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.

BRANCH CLEARANCE DETAIL N. T. S.

GENERAL TREE PROTECTION NOTES

- 1. 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
- 2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.
- 3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- 4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
- 5. 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.
- 6. 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.
- 7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER.
- 8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
- 9. 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. 10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING
- CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
- 11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- 12. ANY TREE REMOVAL SHALL BE APPROVED BY THE ENGINEER.





GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
- CONTRACTOR SHALL COORDINATE FIRE LANE STRIPING AND SIGNAGE WITH FIRE MARSHAL.
- 3. SEE THIS SHEET FOR IDENTIFICATION OF EXISTING FIRE LANES AND

LEGEND EXISTING FIRE HYDRANT FIRE LANE STRIPING

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762303504 01-31-2024 AE PAM