

CHEROKEE NATION - W.W. HASTINGS REPLACEMENT HOSPITAL

SCHEMATIC DESIGN

SUMMARY OF WORK

1. The Work to be performed consists of providing all labor, materials, equipment and services necessary for the complete construction and start-up of ~~500440-0000~~ ~~500440-0000~~ of the ~~CHEROKEE NATION - W.W. HASTINGS REPLACEMENT HOSPITAL~~ as shown on the Drawings and herein specified in accordance with the Contract Documents.

CONTRACT COSTS

- All costs for labor, materials, equipment, and services necessary for complete construction and start-up of the Work as shown on the Drawings and specified herein shall be included in the contract price unless otherwise indicated in the Contract Documents.
- Work shown on the Drawings or required by the Specifications but not specifically listed in the Summary of Quantities shall be considered incidental construction, and the cost of such work shall be included in the Unit Prices Bid.
- CONTRACTOR shall make their own estimate of the labor, materials, equipment, and services necessary to complete the work and shall visit the site and fully acquaint himself of the existing conditions prior to commencing construction. CONTRACTOR shall notify ENGINEER of any errors in the ENGINEER's construction quantities; or any condition at the site that may affect the construction of the work shown on the Drawings.

GENERAL REQUIREMENTS

- Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Cardinal Engineering, Inc., including electronic media editions, shall not be reused on extensions of the Project or any other project without written consent of OWNER and Cardinal Engineering, Inc. and specific written verification or adoption by Cardinal Engineering, Inc.
- Survey information shown on the drawings were provided by Lemke Land Surveying, 3226 Bart Conner Drive, Norman, OK 73072 Phone (405) 366-6241, CA #2054.

APPLICABLE CODES AND SPECIFICATIONS

- All references to codes, specifications, and standards referred to in the Specification and on the Drawings shall mean, and are intended to be, the latest edition, amendment, and/or revision of such reference standard in effect as of the date of these Contract Documents.

PROCEDURAL REQUIREMENTS

- CONTRACTOR shall make the coordination of the operations of all trades, subcontractors, and material suppliers engaged upon or in connection with the Work. Every effort shall be made to assure a harmonious, cooperative attitude on the part of all concerned. CONTRACTOR shall guarantee to each of his foremen and subcontractors the proper dimensions they may require for the fitting of their work to adjoining work. All fitting and adjusting necessary to make all the parts of the work join together properly shall be made.
- Cooperation with utility and government officials and inspectors shall occur at all times. If any official or inspector deems special inspection is necessary, assistance and facilities that will expedite his inspection shall be provided.

TEMPORARY FACILITIES AND CONTROLS

- Arrange for and provide temporary facilities and controls as specified herein and as required for the proper and expeditious prosecution of the work. Pay all costs, except as otherwise specified, until final acceptance of the work unless the OWNER makes arrangements for the use of completed portions of the work after substantial completion in accordance with the provisions of the General Conditions.
- Make all temporary connections to utilities and services in locations acceptable to the OWNER, ENGINEER, and local authorities having jurisdiction thereof; furnish all necessary labor and materials, and make all installations in a manner subject to the acceptance of such authorities and the ENGINEER, maintain such connections; remove the temporary installation and connections when no longer required; restore the services and sources of supply to proper operating condition.
- Pay all costs for temporary electrical power and temporary water.
- Water necessary for construction purposes shall be provided. All temporary connections shall be made to existing mains. A temporary meter shall be provided. Arrangements and payment for the temporary water service, including cost of installation, maintenance thereof, and water used shall be made. At the completion of the construction work, all temporary water service equipment and piping shall be removed.
- Chemical toilets for the use of all construction personnel shall be provided at a location within the limits of the Site. Chemical toilets shall be maintained in a sanitary condition.
- From the commencement to the completion of the work, keep all parts of the site and the project free from accumulation of water, and supply, maintain, and operate all necessary pumping and boiling equipment.
- Remove snow and ice as necessary for the protection and prosecution of the work, and protect the work against weather damage.

PRODUCT REQUIREMENTS

- Materials, products, and equipment shall be properly containerized, packaged, boxed, and protected to prevent damage during transportation and handling.
- Provide suitable temporary weather light storage facilities as may be required for materials that will be damaged by storage in the open. Any off-site storage space used is the responsibility of the CONTRACTOR. Store and protect materials delivered at the site from damage. Do not use damaged material on the work.
- Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned as directed by the respective manufacturers, unless otherwise specified.
- References to approved equal or similar terms mean that approval of the ENGINEER is required.
- Whenever the Contract Documents require that a product be in accordance with Federal specification, ASTM designation, ANSI designation, AWWA specification, or other association standard, the CONTRACTOR shall present an affidavit from the manufacturer certifying that the product complies therewith. Where requested or specified, submit supporting test data to substantiate compliance.

EXECUTION REQUIREMENTS

- CONTRACTOR shall be responsible for property laying out the work, and for lines and measurements for the work executed under the Contract Documents. Verify the figures shown on the Drawings before ordering any materials and laying out the work, and report errors or inaccuracies in writing to the ENGINEER before commencing work. The ENGINEER or his representative will in no case assume the responsibility for laying out the work.
- OWNER has or will perform a survey of the site, stake the property limits, and provide a reference benchmark elevation. CONTRACTOR shall be responsible for any additional offset staking or layout survey required to locate improvements and control grade of improvements. Be responsible for the proper location and level of the work and for the maintenance of reference lines and benchmarks. Any re-staking requested by the CONTRACTOR shall be done at his expense.
- Existing survey points other than those specifically mentioned herein shall not be considered as acceptable control points unless approved by the ENGINEER. If approval is secured, CONTRACTOR remains responsible for maintaining them and for their

accuracy. Be responsible for preserving all existing iron or metal, and all concrete survey points or monuments for the construction period.

STORM WATER POLLUTION PREVENTION PLAN

- Construction activities that result in land disturbance of equal to or greater than one (1) acre, or less than one (1) acre, if they are part of a larger common plan of development or sale that totals at least one (1) acre must also obtain a permit for Storm Water Discharges from Construction Activities. This means that land disturbing of one (1) acre or more must permit with EPA.
- A copy of the erosion control site plan must be on site at all times and made available to the inspector upon request.
- The contractor shall be responsible for the repair or replacement of all erosion control devices damaged due to construction.
- A Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the WORK and a Notice of Intent (NOI) has been submitted by OWNER. CONTRACTOR shall implement the SWPPP, and construct, inspect, and maintain the erosion controls to prevent runoff of silt and sediment from the site. A copy of the SWPPP shall be kept at the site at all times and be made available to inspectors upon request. Inspections reports shall be maintained in the SWPPP and the SWPPP shall be updated when necessary.
- The erosion control plan, Notice of Intent (NOI), and the Storm Water Pollution Prevention Plan (SWPPP), as well as any other applicable state or municipal permits shall be kept on site by the construction superintendent at all times. Said items shall be made available to state and municipal authorities upon request.
- Identified disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site, at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.25 inches or greater.
- All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If site inspections identify erosion controls that are not operating effectively, maintenance shall be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.
- If sediment escapes the construction site, off-site accumulations of sediment shall be removed at a frequency sufficient to minimize off-site impacts (e.g., fugitive sediment in street could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
- Sediment shall be removed from sediment traps or sedimentation ponds when the design capacity has been reduced by 50%.
- After construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm water discharges (e.g., screening outfalls, picked up daily).

EXISTING UTILITIES AND STRUCTURES

- CONTRACTOR shall contact OKIE (1-800-522-6543) prior to construction for locating existing utilities.
- The underground utilities shown have been located from field survey surface information and existing drawings. ENGINEER and Surveyor make no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The underground utilities are located as accurately as possible from information available; however, ENGINEER and Surveyor further do not guarantee that the underground utilities shown are in the exact location indicated either vertically or horizontally. ENGINEER and Surveyor have not physically located the underground utilities by probing, excavating, hydro-vac, or by any other means.
- Prior to construction, CONTRACTOR shall notify all utility companies and governmental agencies who may have utility lines on or about the premises or who may be affected by the construction. Notice shall be given no less than twenty-four hours prior to any work that may interfere with a utility. CONTRACTOR shall also coordinate the construction activities with the utility companies to ensure compliance with the project schedule.
- All existing structures, improvement and utilities designated to remain shall be adequately protected from damage that might otherwise occur due to construction operations. Where construction comes in close proximity to existing structures, utilities or appurtenances, or if it becomes necessary to move services, poles, guy wires, pipe lines or other obstructions, CONTRACTOR shall notify and cooperate with the owner of the utility, structure, or appurtenance. The utility lines and other existing structures shown on the plans are for information only and are not guaranteed to be complete or accurate as to location and/or depth. CONTRACTOR shall be liable for damage to any utilities resulting from the CONTRACTOR's operations. During construction, all fire hydrants, valve boxes, fire or police call boxes and other existing utility controls shall be left intact, unobstructed and accessible unless noted on the plan.
- Any existing valve boxes, meters, fire hydrants, manholes, and other public utilities shall be rebuilt to finished grades according to specifications. All valves, manhole lids, and sewer clean-outs located in paved areas, shall be rated for H-20 traffic loading. Coordinate the work with the appropriate utility department.

PROTECTION AND MAINTENANCE

- Perform all special construction operations and take all precautions necessary to adequately protect the materials and work performed, the property and landscape of OWNER and others, existing buildings and improvements, existing utilities, workers and employees, and the public in general.
- Where trees, plants, shrubbery, and other vegetation are adjacent to the line of the work and are designated not to be destroyed or removed and replaced, CONTRACTOR shall protect these items by substantial wooden boxes and guards and shall not permit machinery or employees to scrape, tear the limbs from or damage, or attach guy cables to them. Hand excavation may be required if machinery could damage trees, plants, shrubbery, and other vegetation designated to be left undisturbed. CONTRACTOR shall be responsible for all damages to such trees, plants, shrubbery, and other vegetation unless specific provisions are made for their removal or abandonment on the Drawings.
- Existing fences that require cutting for gates or other reasons shall be adequately braced to prevent slacking of the fence before it is cut. Livestock may be present in all fenced areas; therefore, points of entrance shall be kept closed at all times and the CONTRACTOR shall be responsible for the containment of livestock, their safety, and the safety of the public. All fencing shall be done in a workmanlike manner with standard construction practices as per the standard details provided. Gates installed shall be chained and locked closed. Locks shall be keyed alike. Provide a set of keys to the OWNER.
- The sides of all excavations shall be sufficiently sheeted and shored to prevent slides, cave-ins, settlement or movement of the banks and to maintain the excavation clear of all obstructions that will, in any way, hinder or delay the progress of the work. All sheeting, shoring and bracing shall have sufficient strength and rigidity to withstand the pressure exerted and maintain the sides of the excavation properly in place and protect all persons, including workmen, and all property from injury or damage. The removal of sheeting, shoring and bracing shall be done in such manner as to not endanger new or existing structures, public or private property, and to avoid cave-ins or slides of the

banks. Sheeting, shoring, or bracing shall not be left in place.

- Shore up and protect any building or other structure which may be endangered during the work and restore all buildings, culverts, fences, walls, or other properties disturbed during the work to a condition equal to or existing before operation. CONTRACTOR shall be responsible for any injuries to persons and for damages to existing buildings or other structures affected by the work, and OWNER shall not be liable therefore.
- Immediately remove all surface or seepage water from sewers, drains, ditches, and other sources that may accumulate water during the excavation and construction work by pumping, bailing, or draining. CONTRACTOR shall have available at all times sufficient equipment in proper working order for doing the work herein required. All water removed from excavations shall be disposed of in an approved manner, so as to not create unsanitary conditions, nor to cause injury to persons or property or damage to the work in progress, nor to interfere unduly with the use of streets, private driveways or entrances.
- When existing storm sewers, drains, or ditches are blocked, cut, opened, or removed in the course of the work, CONTRACTOR shall provide and maintain temporary outlets and connections until permanent facilities have been restored. Provide and maintain any pumps, diversions, piping, containers, and other facilities required for this purpose.
- During construction and until such time as vegetation is reestablished, keep exposed dirt areas within the limits of construction and in stockpiles areas damp to prevent blowing. CONTRACTOR shall be responsible for providing and maintaining adequate erosion protection during construction and following construction until such time as proper vegetation is reestablished.
- The premises and the job site shall be maintained in a reasonably neat and orderly condition and kept free from accumulations of waste materials and rubbish during the entire construction period. Remove crates, cartons, and flammable waste materials or trash from the work areas at the end of each working day.
- Upon completion of the work and before final acceptance and final payment shall be made, the CONTRACTOR shall completely clean and remove from the site of the work all equipment, construction materials, surplus and discarded materials, temporary structures and debris of every kind. CONTRACTOR shall leave the site of the work in a neat and orderly condition equal to that which originally existed, or as called for in the Contract documents. Surplus and waste materials removed from the site of the work shall be disposed of at locations satisfactory to the Engineer, and at the CONTRACTOR'S sole cost.
- All terraces, levees, and watercourses shall be restored to former condition to the satisfaction of OWNER as that they shall function as originally intended.
- Fences disturbed by construction shall be restored to original condition and to the satisfaction of OWNER.
- Public and private streets, drives, and parking lots shall be restored to their original condition.
- When and where any damage or injury is done to public or private property on the part of the CONTRACTOR, it shall restore or have restored at its own cost and expense such property to a condition equal (or improved) to that existing before such damage was done by repairing, rebuilding or otherwise restoring as may be directed, or it shall make good such damage or injury in a manner acceptable to the property owner or the Engineer. Replacement of previously constructed items, such as curb, gutter, sidewalks, driveways, paving, etc., shall conform to the specifications for new construction, unless directed otherwise by the OWNER.

EXCAVATION AND TRENCH SAFETY SYSTEMS

- CONTRACTOR shall be responsible for complying with State laws and Federal regulations relating to excavation and trench safety, including those which may be enacted during the performance under this Contract. CONTRACTOR is advised that Federal Regulations 29 C.F.R. 1926.650-1926.652 have been, in their most recent version as amended, in effect since January 2, 1990. CONTRACTOR shall fully comply with the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulations pertaining to excavations, trenching, and shoring and shall provide and pamphlet its employees involved in excavation and trenching with the provisions in OSHA Pamphlet Number 2226, Excavating and Trenching Operations.

TRAFFIC CONTROL

- A Work Zone Permit must be obtained from the CITY at least two (2) working days prior to the start of work and/or placing or removing any barricades or modifying existing traffic control devices.
- CONTRACTOR shall be responsible for erecting and maintaining barricades and other traffic warning devices as necessary around the perimeter of construction and adjacent to any open trenches. Provide and maintain adequate detours around the work under construction. Provide sufficient lights, warning signs, and watchmen for the safety of the public.
- Any temporary street closure shall be coordinated with and approved by OWNER. CONTRACTOR shall establish all detour routes while streets are closed during construction. CONTRACTOR shall notify Fire, Police, and EMSA headquarters when any street is temporarily closed.
- CONTRACTOR is responsible for the prompt replacement and/or repair of all traffic control devices, signs, and appurtenances damaged or disturbed due to construction. Any existing traffic signals, signal loops, conduits, cables, signs, and other traffic control device affected by the work shall be reset or replaced according to specifications. Coordinate the work with the traffic department.

ADA COMPLIANCE

CONTRACTOR is responsible for ensuring all sidewalks, curb ramps, ramps, stairs, accessible parking spaces, and building access routes comply with the current Americans with Disability Act (ADA) Standards prior to construction. Any errors found shall be brought the ENGINEER's attention for resolution.

DEFECTIVE AND UNAUTHORIZED WORK

- All work that has been rejected or condemned shall be repaired or if it can not be satisfactorily repaired, it shall be removed and replaced at the CONTRACTOR'S expense. Defective materials shall be removed immediately from the site of the work.
- Work done without lines and grades having been given, work done beyond the lines or not in conformity with grades shown on the plans or as given, work done with out proper inspection, or any extra or unclassified work done without written authority and prior written agreement as to prices, will be done at the CONTRACTOR'S risk and will be considered unauthorized, and at the option of the ENGINEER, may not be measured on paid for and may be ordered to be removed at the CONTRACTOR'S expense.
- Upon failure of the CONTRACTOR to satisfactorily repair or to remove and replace, if so directed, and rejected, unauthorized, or condemned work or materials immediately after receiving notice from the ENGINEER, the ENGINEER shall, after giving written notice to the CONTRACTOR, have the authority to cause defective work to be remedied or removed and replaced, or to cause unauthorized work to be removed and replace, and to deduct the cost thereof from any compensation due or to become due the CONTRACTOR. If the ENGINEER and OWNER deem it not expedient to correct the work damaged or done not in accordance with the Contract, and equable deduction from the Contract Price shall be made thereof.

LINE LEGEND

— X — X — X — X — X —	BARBED WIRE FENCE
— O — O — O — O — O —	CHAINLINK FENCE
— B — B — B — B — B —	PIPERAIL FENCE
— > — > — > — > — > —	STOCKADE FENCE
— * — * — * — * — * —	SECURITY FENCE
— E — E — E — E — E —	ELECTRIC UNDERGROUND
— G — G — G — G — G —	OVERHEAD ELECTRIC
— SS — SS — SS — SS — SS —	GAS LINE
— SD — SD — SD — SD — SD —	SANITARY SEWER
— W — W — W — W — W —	STORM DRAIN PIPE (SURVEYED)
— NW — NW — NW — NW — NW —	STORM DRAIN CENTERLINE
— — — — —	WATER
— — — — —	NONPOTABLE WATER
— — — — —	CURB AND GUTTER
— >> — >> — >> — >> — >> —	SURFACE DRAINAGE FLOWLINE
— FO — FO — FO — FO — FO —	FIBER OPTIC
— T — T — T — T — T —	TELEPHONE (AERIAL)
— T — T — T — T — T —	TELEPHONE (BURIED)
— TV — TV — TV — TV — TV —	TELEVISION (AERIAL)
— TV — TV — TV — TV — TV —	TELEVISION (BURIED)
— — — — —	CENTERLINE
— — — — —	EASEMENTS
— — — — —	PROPERTY LINE
— — — — —	RIGHT OF WAY
— — — — —	EXISTING BUILDINGS
— — — — —	BUILDING SETBACK
— 1/32 — 1/32 — 1/32 — 1/32 — 1/32 —	EX 1 FT CONTOUR
— 1/25 — 1/25 — 1/25 — 1/25 — 1/25 —	EX 5 FT CONTOUR
— 1/25 — 1/25 — 1/25 — 1/25 — 1/25 —	FG 1 FT CONTOUR
— 1/25 — 1/25 — 1/25 — 1/25 — 1/25 —	FG 5 FT CONTOUR
— — — — —	PROJECT BOUNDARY
— — — — —	DEMOLITION LINE

ABBREVIATIONS

⊕	AT	N/A	NOT APPLICABLE
AFF	ABOVE FINISHED FLOOR		
AGRD	ADJACENT GRADE		
AHL	AUTHORITY HAVING JURISDICTION		
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
ARCH	ARCHITECTURAL	MTCH	MATCH
ASSY	ASSEMBLY	MEP	MECHANICAL / ELECTRICAL / PLUMBING
BFF	BELOW FINISHED FLOOR	N	NORTH
BLDG	BUILDING	N	NORTHING
CIP	CAST IN PLACE	N	NUMBER
CL	CENTERLINE		
CM	CONSTRUCTION MANAGER		
CNTR	CENTER	OC	ON CENTER
CONC	CONCRETE	OEO	OKLAHOMA DEPARTMENT OF
CONST	CONSTRUCT	ODOT	ENVIRONMENTAL QUALITY
CONT	CONTINUOUS		OKLAHOMA DEPARTMENT OF
COORD	COORDINATE	OWR	TRANSPORTATION
			OKLAHOMA WATER RESOURCES
DA	DIAMETER	DZB	BOARD
DS	DOWN SPOUT		OUNCE
DTL	DETAIL	PC	PORTLAND CEMENT
DWG(S)	DRAWINGS	PC	PRE-CAST
E	EAST	PC	POINT OF CURVATURE
E	EASTING	PLBG	PLUMBING
EG	EXISTING GRADE	POC	POINT OF CONNECTION
EGL	EXISTING GRADE CENTER LINE	PRC	POINT OF REVERSE CURVATURE
ELEC	ELECTRICAL	PT	POINT OF TANGENCY
ELEV	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EJ	EXPANSION JOINT	QTY	QUANTITY
EQ	EQUAL		
ETR	EXISTING TO REMAIN	R	RADIUS
EX	EXISTING	RE	REFERENCE
EX	EXTRA HEAVY DUTY	RENF	REINFORCED
FD	FLOOR DRAIN	REQ'D	REQUIRED
FF	FINISHED FLOOR	REV	REVISION
FG	FINISHED GRADE		
FGCL	FINISHED GRADE CENTER LINE	S	SOUTH
FL	FLOWLINE	SAN	SANITARY
FC	FACE OF CONCRETE	SCHED	SCHEDULE
FT	FOOT/FEET	SECT	SECTION
FT	FOOTING	SF	SQUARE FEET
FV	FIELD VERIFY	SHT	SHEET
GA	GAUGE	SPEC	SPECIFICATION
GALV	GALVANIZED	SQ	SQUARE
GC	GENERAL CONTRACTOR	STRUC	STRUCTURAL
GU	GUTTER	STD	STANDARD
		SW	SIDWALK
		SY	SQUARE YARD
HD	HEAVY DUTY	TC	TOP OF CURB
HORIZ	HORIZONTAL	TEMP	TEMPORARY
HT	HEIGHT	TOP	TOP OF CONCRETE
		TOE	TOE OF SLOPE
IN	INCH	TOP	TOP OF SLOPE
INFO	INFORMATION	TOW	TOE OF WALL
ID	INSIDE DIAMETER	TPW	TOP OF WALL
IFGC	INTERNATIONAL FUEL GAS CODE	TYP	TYPICAL
IPC	INTERNATIONAL PLUMBING CODE		
JOINT	JOINT	UNO	UNLESS NOTED OTHERWISE
LD	LIGHT DUTY	VERT	VERTICAL
LF	LINEAL FEET	W	WEST
MH	MANHOLE	W/	WITH
MAX	MAXIMUM	WT	WEIGHT
MECH	MECHANICAL		
MIN	MINIMUM		
MISC	MISCELLANEOUS		

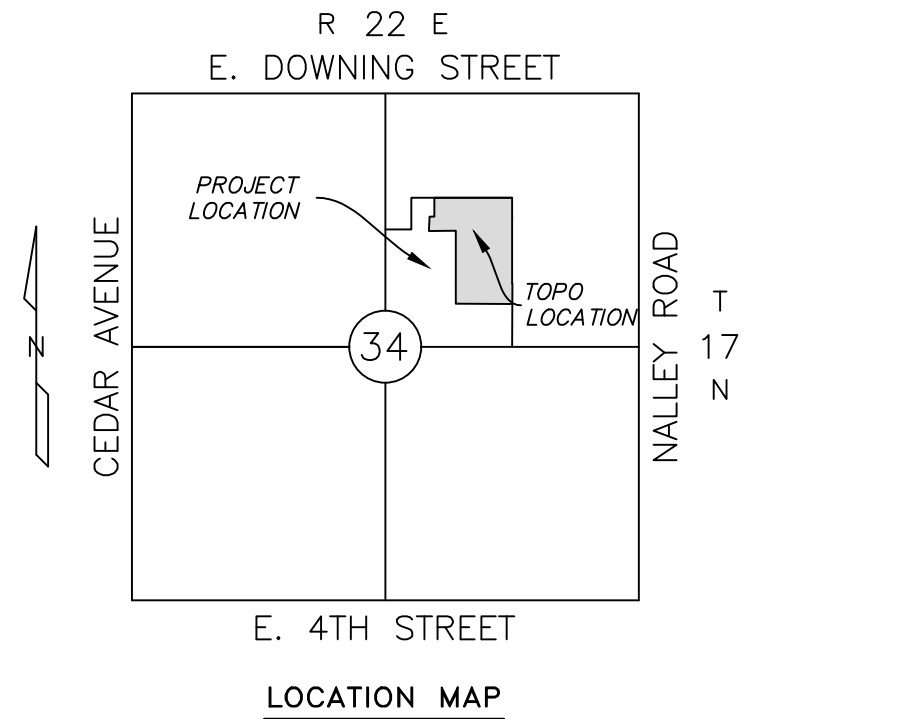
CIVIL SD SHEET LIST

Sheet Number	Sheet Title
C0-102	General Civil Notes
C0-901	Project Map
C3-101	Overall Site View
C3-102	A1 Site Plan
C3-103	A2 Site Plan
C3-104	B1 Site Plan
C3-105	B2 Site Plan
C3-106	C1 Site Plan
C3-107	C2 Site Plan
C3-108	P1 Site Plan
C3-109	P2 Site Plan
C3-110	P3 Site Plan
C3-111	P4 Site Plan
C3-112	P5 Site Plan
C3-501	Site Details
C3-502	Site Details
C3-503	Concrete Paving Joint Details
C4-101	Overall Utility View
C4-102	A1 Utilities
C4-103	A2 Utilities
C4-104	B1 Utilities
C4-105	B2 Utilities
C4-106	C1 Utilities
C4-107	C2 Utilities
C5-101	Overall Grading View
C5-102	A1 Grading Plan
C5-103	A2 Grading Plan
C5-104	B1 Grading Plan
C5-105	B2 Grading Plan
C5-106	C1 Grading Plan
C5-107	C2 Grading Plan
C5-108	P1 Grading Plan
C5-109	P2 Grading Plan
C5-110	P3 Grading Plan
C5-111	P4 Grading Plan
C5-112	P5 Grading Plan

BP1 SHEET LIST

Sheet Number	Sheet Title
C0-101	BP1 General Civil Notes
C1-101	Existing Conditions
C1-102	Existing Conditions
C2-101	Overall Demolition View
C2-102	A1 Demolition Plan
C2-103	A2 Demolition Plan
C2-104	B1 Demolition Plan
C2-105	B2 Demolition Plan
C2-106	C1 Demolition Plan
C2-107	C2 Demolition Plan
C2-108	BP1 Erosion Control Plan
C2-501	Erosion Control Details
C6-101	Storm Drain Plan
C6-201	Storm Drain Profiles
C6-501	Storm Drain Details
C6-502	Storm Drain Details
C6-503	Storm Drain Details
C6-504	Storm Drain Details
C6-505	Storm Drain Details
C6-506	Storm Drain Details
C6-507	Storm Drain Details
C6-508	Storm Drain Details
C6-509	Storm Drain Details
C6-801	Hydrology Map

LEGAL DESCRIPTION AND LOCATION MAP

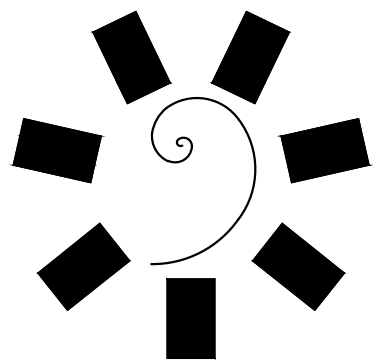


HARDSCAPE / LANDSCAPE PATTERNS

	CONCRETE SIDEWALKS
	LIGHT DUTY ASPHALT PAVING
	HEAVY DUTY ASPHALT PAVING
	LIGHT DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
	SODDING / SEEDING / VEGETATIVE COVER

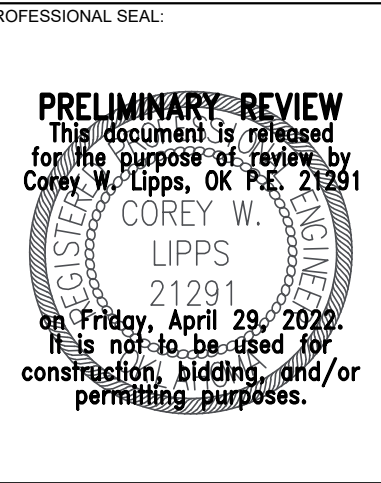
SYMBOL LEGEND

	AIR CONDITIONER UNIT
	FIRE HYDRANT
	GAS METER
	GAS VALVE
	GAS VENT
	GROUND TRANSFORMER
	GUARD POST
	LIGHT POLE
	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	PROPERTY CORNER FOUND
	PROPERTY CORNER SET
	SANITARY SEWER CLEANOUT
	COMMERCIAL SIGN
	SIGN
	SPRINKLER HEAD
	SPRINKLER VALVE
	TELEPHONE RISER
	TRAFFIC/ELECTRIC PULL BOX
	WATER METER
	WATER VALVE BOX
TC=1121.63	TOP OF CURB SPOT ELEVATION
G=1121.13	GUTTER SPOT ELEVATION
X 1123.5	SPOT ELEVATION



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CONSULTANT LOGO

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CLIENT:



CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

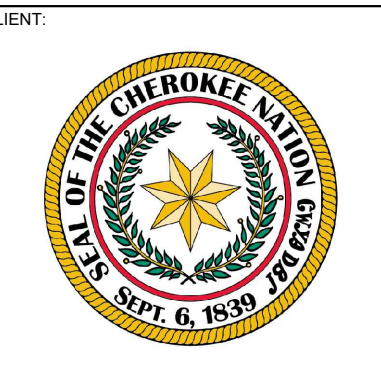
PROJECT PHASE:

SCHEM



PRELIMINARY REVIEW
This document is released
for the purpose of review by
Corey W. Lipps, OK P.E. 21291
**COREY W.
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21291**
on Friday, April 29, 2022.
It is not to be used for
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CHEROKEE NATION
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TAHLEQUAH, OKLAHOMA

RY PLAN:

PROJECT PHASE:

SCHEMATIC DESIGN

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6 NUMBER: 21-08 21

DATE: 05-06-22

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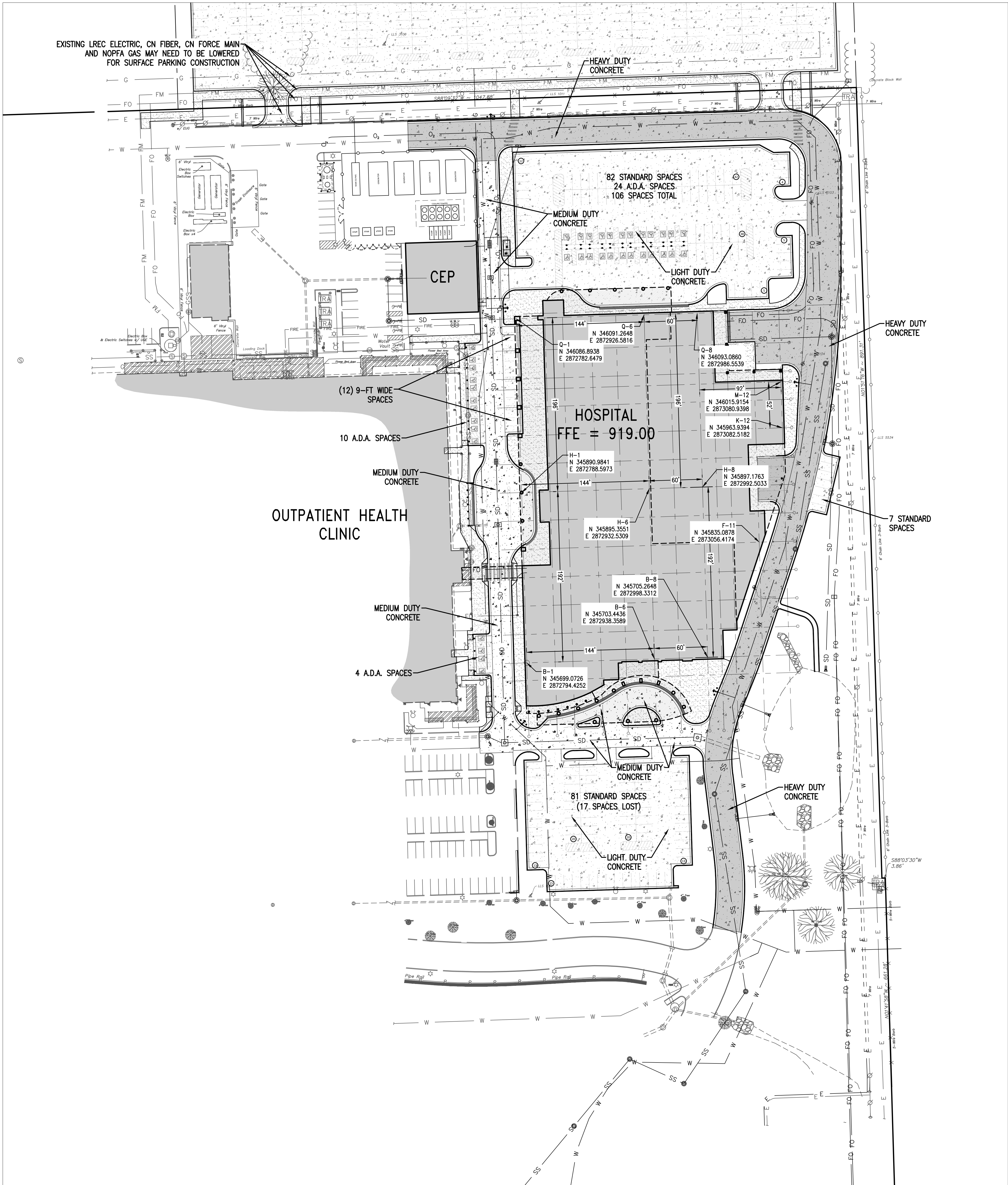
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MEET TITLE:

PROJECT MAP

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A:\2021\15123.21\03_DSGN01_DWG\050_CIVIL\03-SITE-5123.DWG
4/29/2022 4:29:22 PM A:\2021\15123.21\03_DSGN01_DWG\050_CIVIL\03-SITE-5123.DWG
C3-101 Overall Site View, 4/29/2022 12:53:05 PM



PARKING TOTALS

ON-SITE SPACES LOST AND RECONSTRUCTED
819 PARKING SPACES
46 A.D.A. SPACES
773 STANDARD SPACES

ON-SITE SPACES ADDED IN THE DESIGN
196 PARKING SPACES
38 A.D.A. SPACES
158 STANDARD SPACES

NET LOSS OF ON-SITE SPACES
623 PARKING SPACES LOST
8 A.D.A. SPACES LOST
615 STANDARD SPACES LOST

NORTH SURFACE PARKING
1,031 STANDARD SPACES

PARKING SPACES DIFFERENCE
8 A.D.A. SPACES LOST
416 STANDARD SPACES ADDED
408 TOTAL ADDITIONAL PARKING SPACES

ON-SITE PAVING ESTIMATES

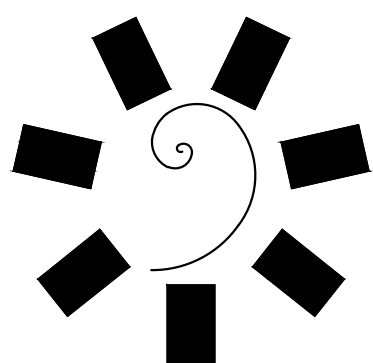
3,695 SY 4-IN THK SIDEWALK
9,149 SY 5-IN THK CONCRETE
3,000 SY 6-IN THK CONCRETE
5,353 SY 7-IN THK CONCRETE
10,710 SY BUILDING PAD
711 SY CEP PAD
5,969 LF 6-IN BARRIER CURB
W/2-FT GUTTER / 6-IN THK

HARDSCAPE PATTERNS

	CONCRETE SIDEWALKS
	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
	SODDING / SEEDING / VEGETATIVE COVER

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21281
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CLIENT:



CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

REVISIONS

NO.	DESCRIPTION	DATE

JOB NUMBER:

21-08.21

DATE:

05-06-22

SHEET NUMBER:

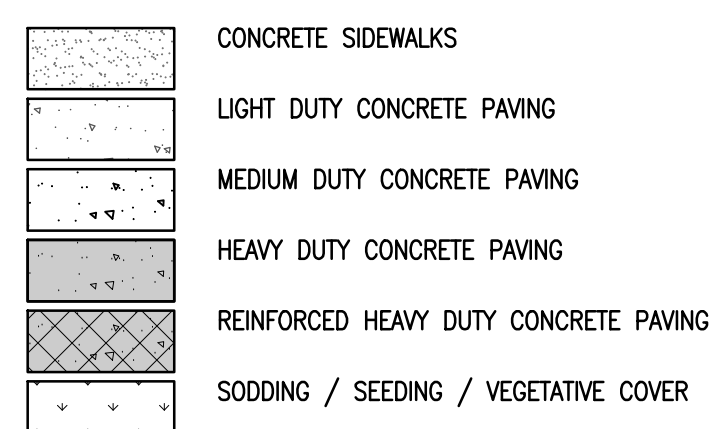
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SHEET TITLE:

OVERALL SITE VIEW

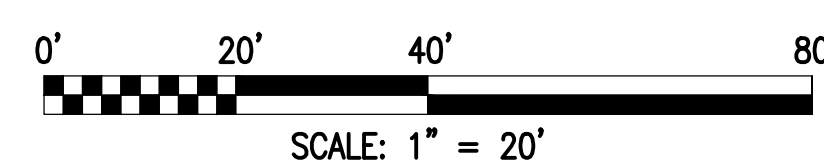


HARDSCAPE PATTERNS



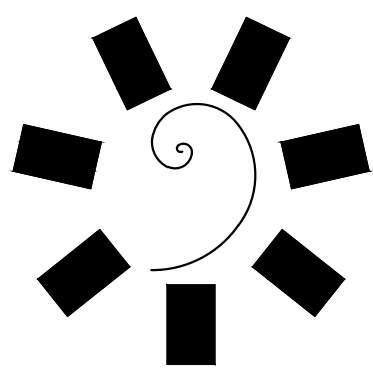
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B2

KEYNOTES

[illegible]

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TAHLEQUAH, OKLAHOMA

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

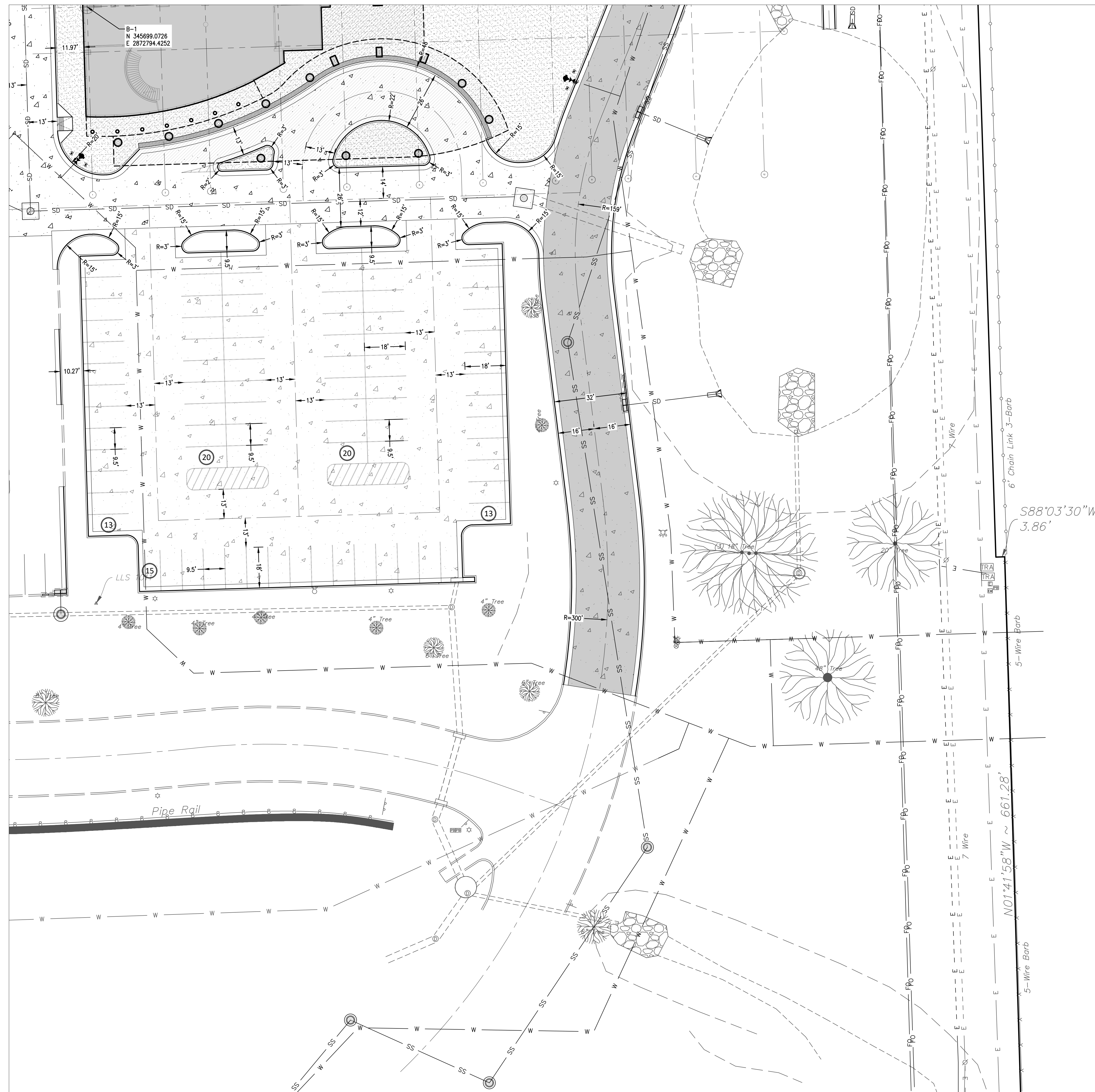
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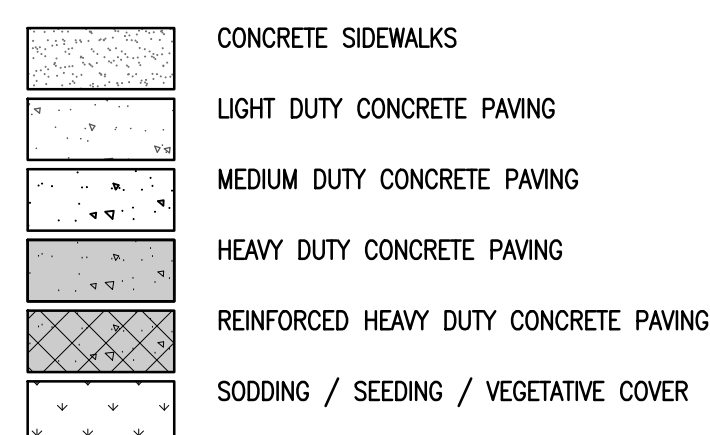
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SHEET TITLE:

B2 SITE PLAN

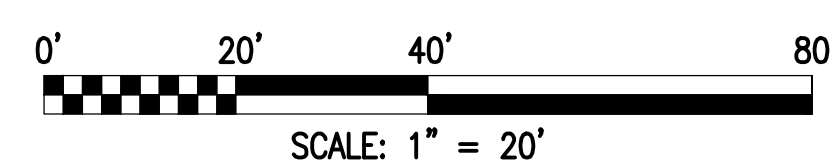


HARDSCAPE PATTERNS



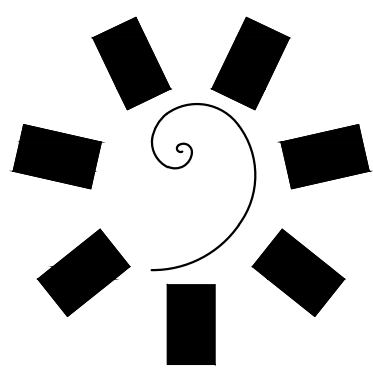
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C2

KEYNOTES

[illegible]

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

[illegible]

JOB NUMBER:	21-08.21
DATE:	05-06-22

C3-107

C2 SITE PLAN

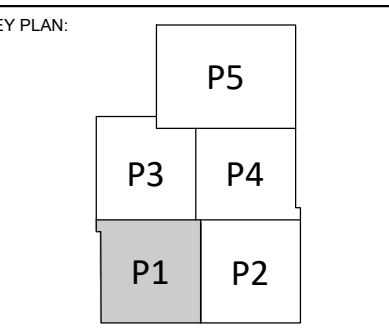


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PROJECT PHASE:

SCHEMATIC DESIGN

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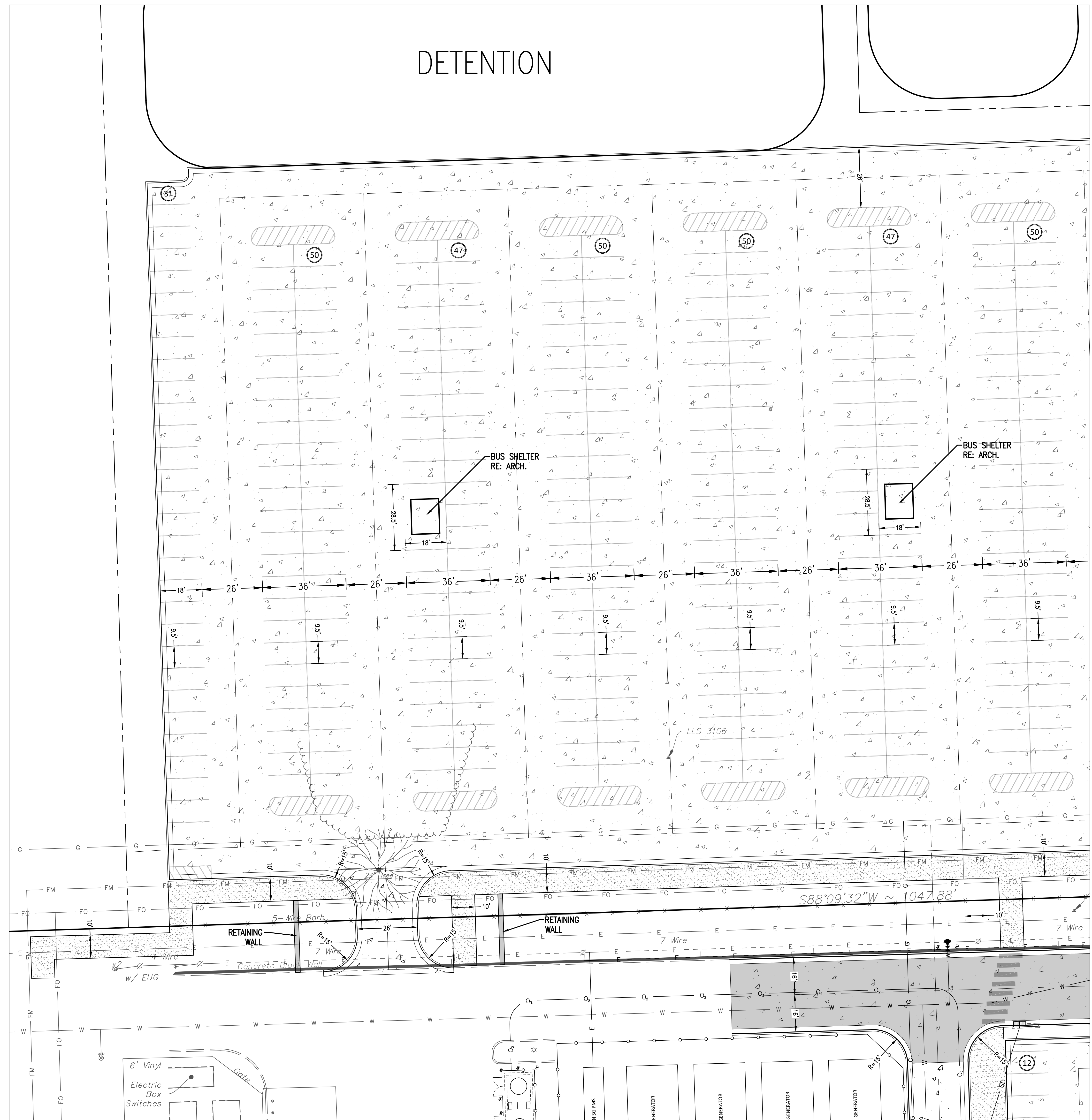
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05-06-22

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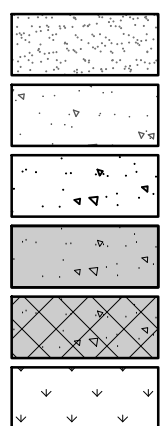
P1 SITE PLAN



KEYNOTES

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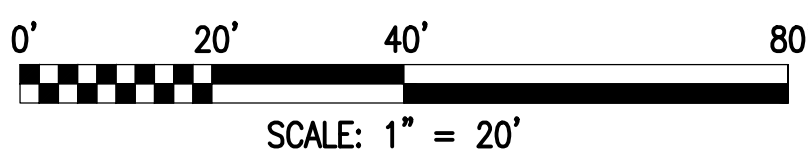
HARDSCAPE PATTERNS



CONCRETE SIDEWALKS
LIGHT DUTY CONCRETE PAVING
MEDIUM DUTY CONCRETE PAVING
HEAVY DUTY CONCRETE PAVING
REINFORCED HEAVY DUTY CONCRETE PAVING
SODDING / SEEDING / VEGETATIVE COVER

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P1

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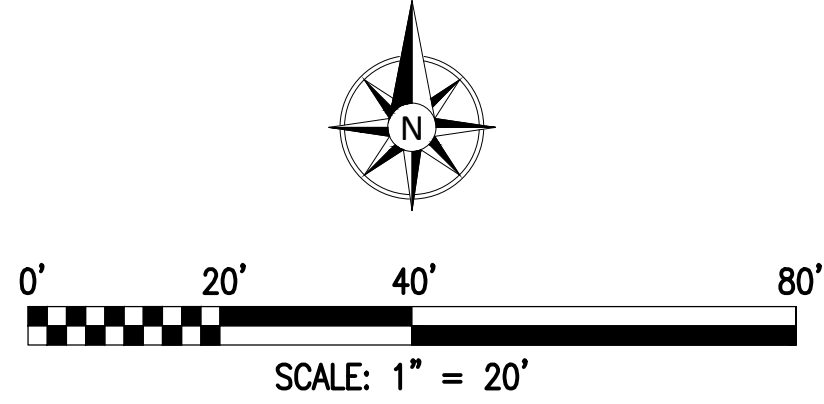


	CONCRETE SIDEWALKS
	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
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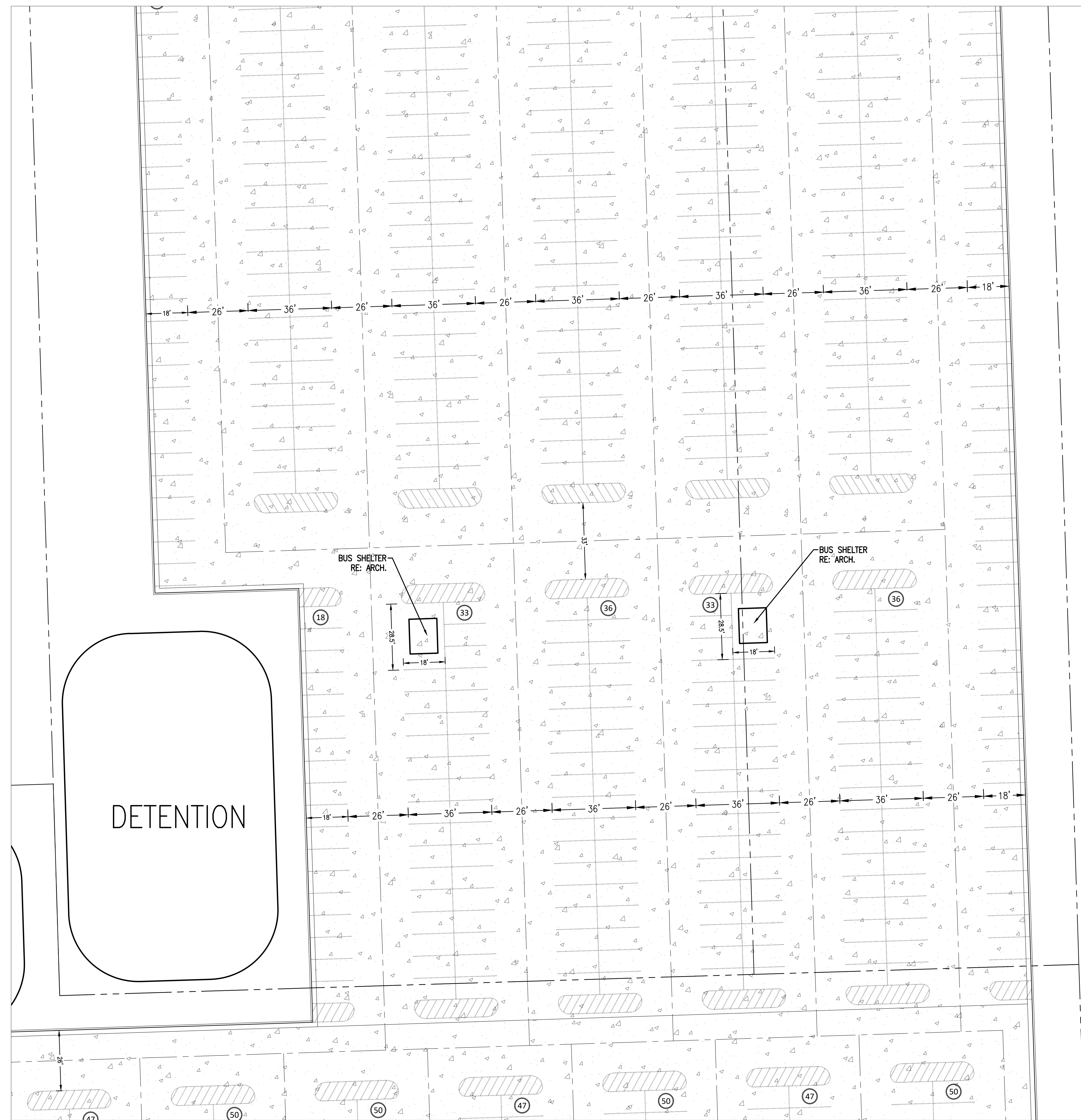


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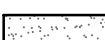

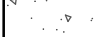
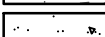
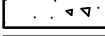
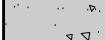
KEYNOTES

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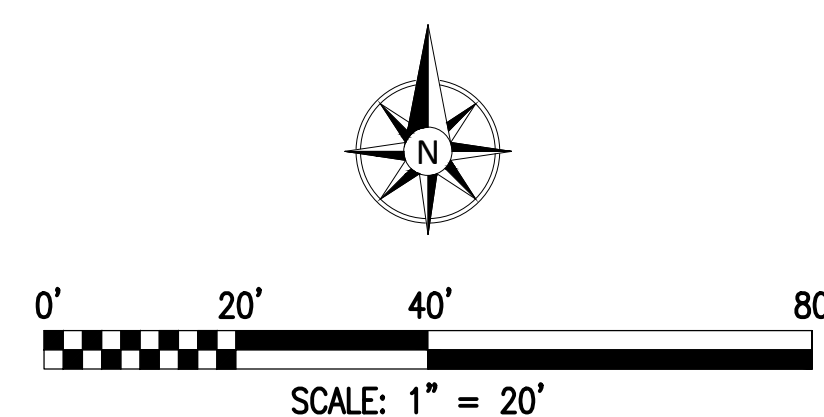
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HARDSCAPE PATTERNS

	CONCRETE SIDEWALKS
	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
	SODDING / SEEDING / VEGETATIVE COVER

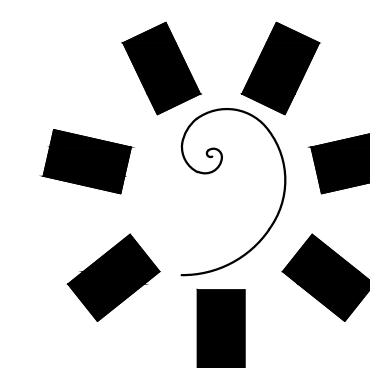
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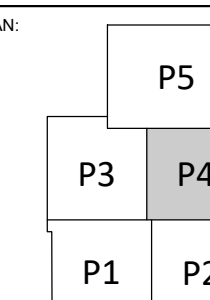
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1004



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SCHEMATIC DESIGN

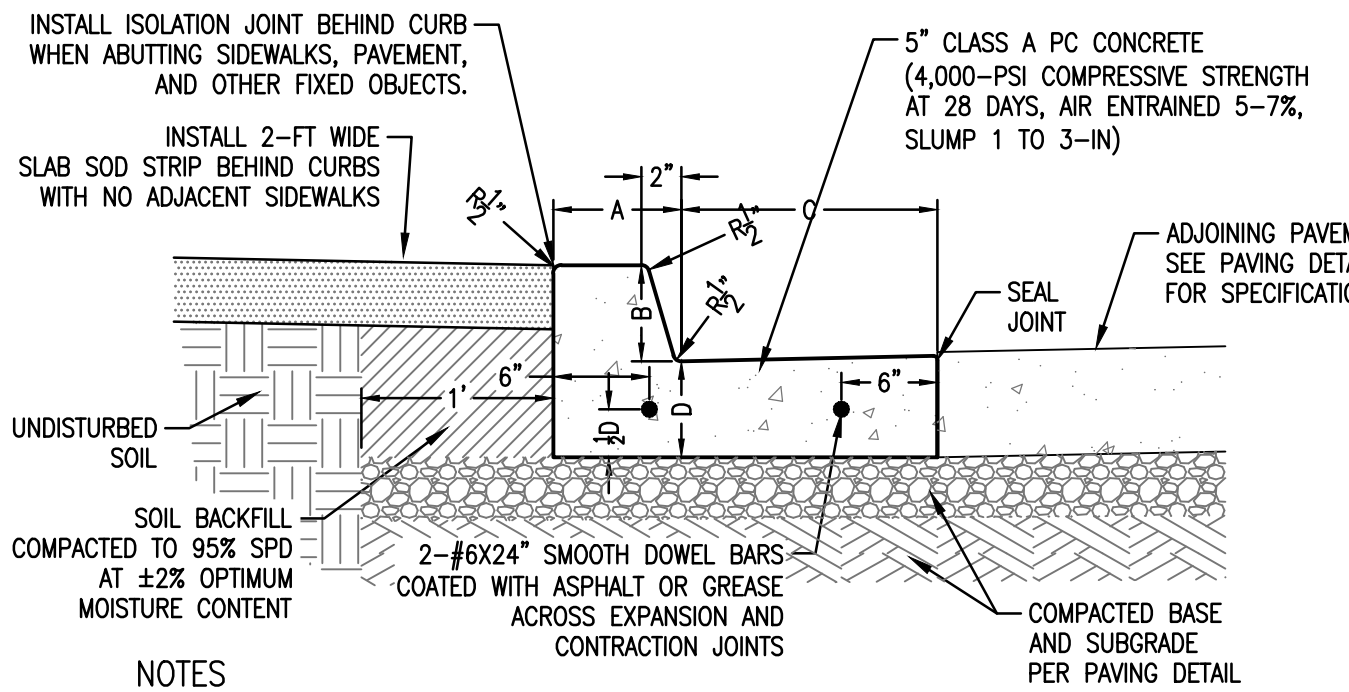
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JOB NUMBER: 21-08 21

DATE: 05-06-22

SHEET NUMBER:

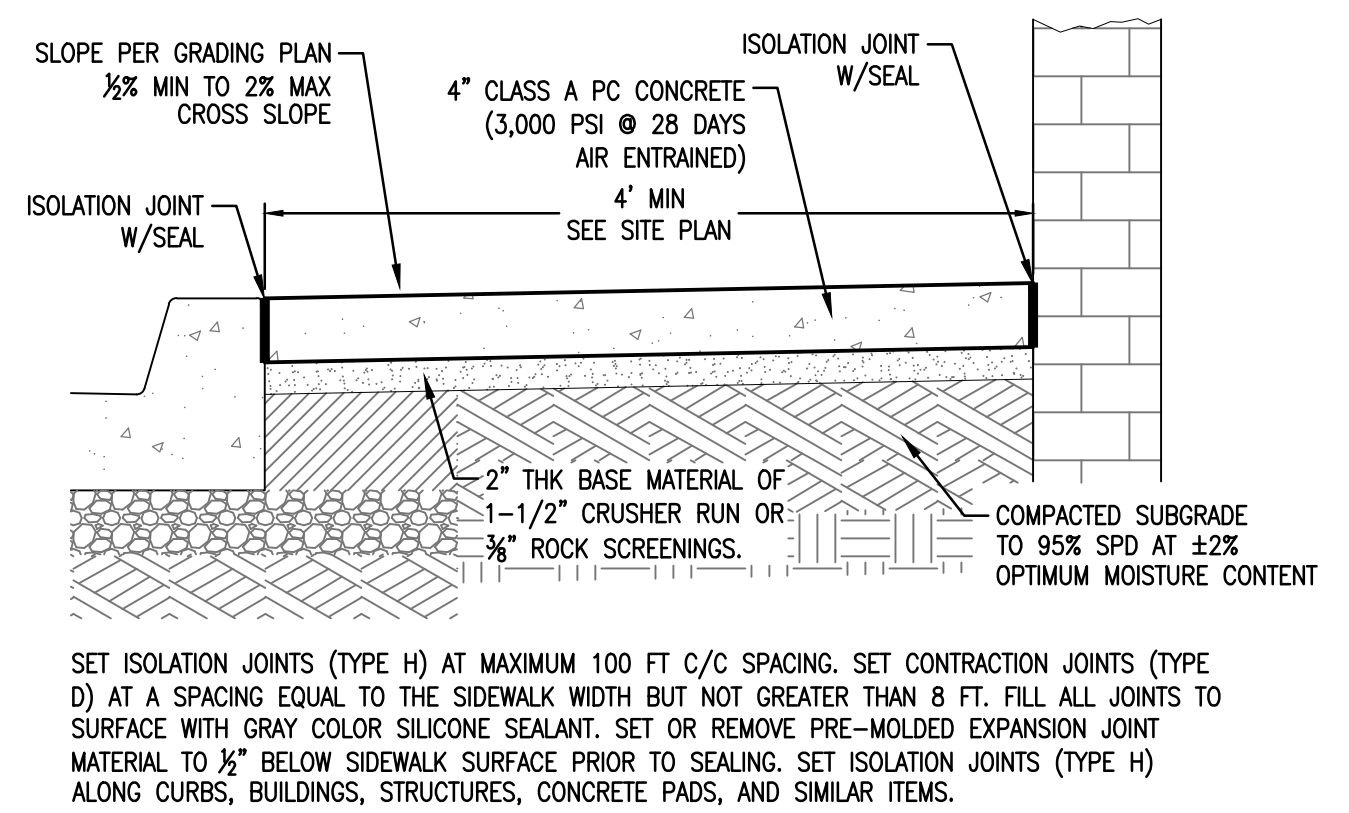
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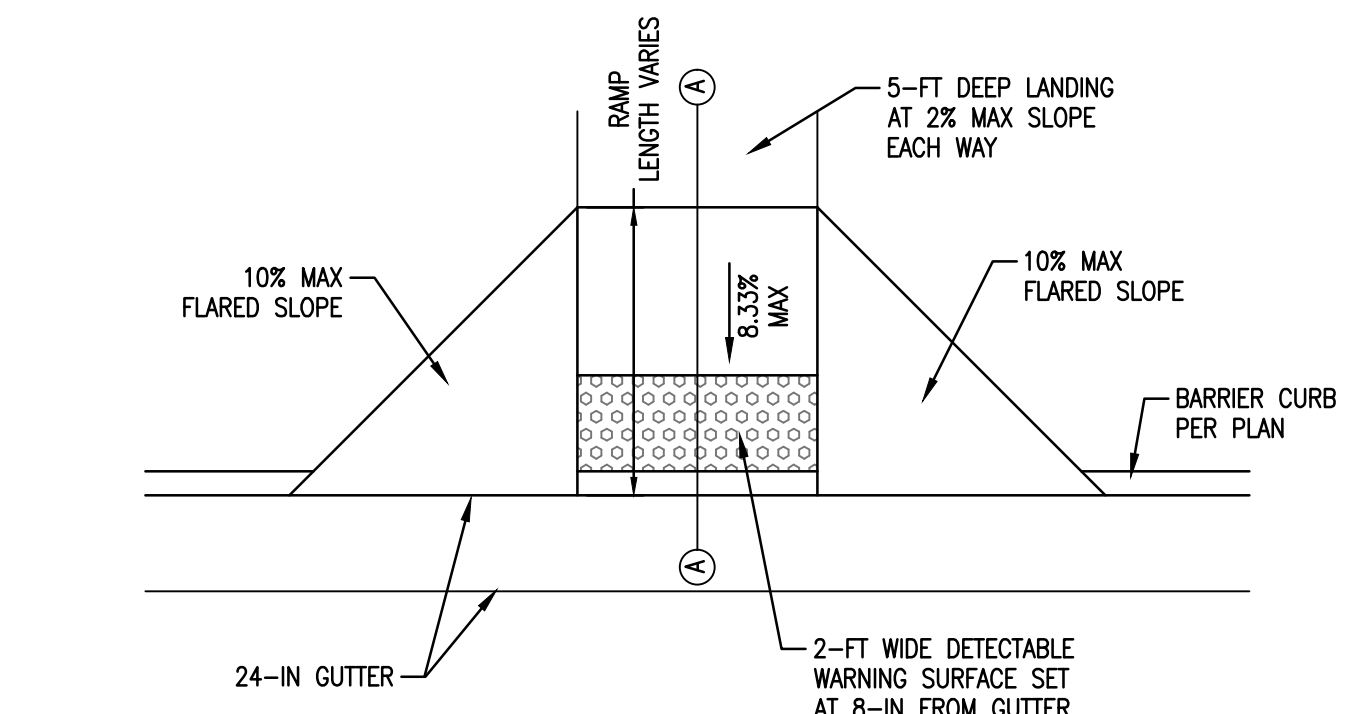
- NOTES
1. CONCRETE CURB AND GUTTER SHALL BE CLASS A PC CONCRETE, (4,000-PSI COMPRESSIVE STRENGTH AT 28 DAYS, AIR ENTRAINED 5-7%, SLUMP 1 TO 3-IN).
 2. WHEN THE PAVING ADJACENT TO A GUTTER SLOPES AWAY FROM THE GUTTER, THE GUTTER SLOPE SHALL MATCH THE SLOPE OF THE ADJACENT PAVING. THE GUTTER THICKNESS "D" SHALL MATCH THE THICKNESS OF THE ADJACENT PAVEMENT AND SHALL NOT BE LESS THAN 6 INCHES.
 3. SET $\frac{1}{2}$ " EXPANSION JOINTS AT MAXIMUM 100' C/C SPACING USING $\frac{1}{2}$ "x4" PRE-MOLDED EXPANSION JOINT MATERIAL. SET CONTRACTION JOINTS AT 15' TO 20' C/C. FILL ALL JOINTS TO SURFACE WITH SILICONE SEALANT.
 4. USE TYPE E TIED JOINT BETWEEN PC CONCRETE PAVEMENT AND GUTTER WHEN CURB AND GUTTER ARE POURED SEPARATELY FROM THE PAVING.
 5. USE TYPE E TIED JOINT BETWEEN PC CONCRETE PAVEMENT AND GUTTER WHEN SOIL AREAS BEHIND THE CURB SLOPES AWAY FROM THE CURB.

SPECIFIED CURB	C&G NUMBER (AB-CD)	CURB DIMENSIONS		GUTTER DIMENSIONS	
		A	B	C	D
	86-166	8	6	16	6
	86-168	8	6	16	8
	86-226	8	6	22	6
	86-228	8	6	22	8
X	86-246	8	6	24	6
	88-246	8	8	24	6
	88-248	8	8	24	8

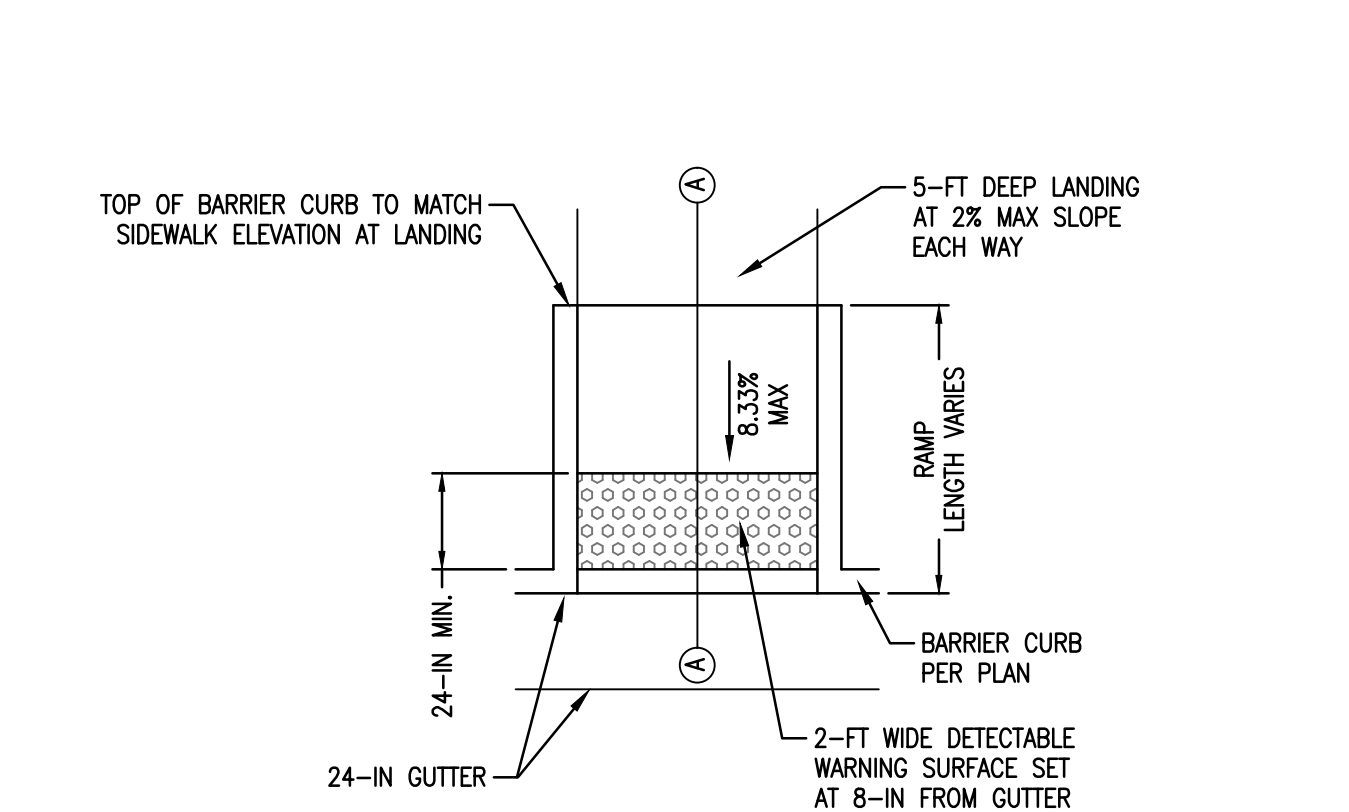
1 CURB AND GUTTER Scale: NTS



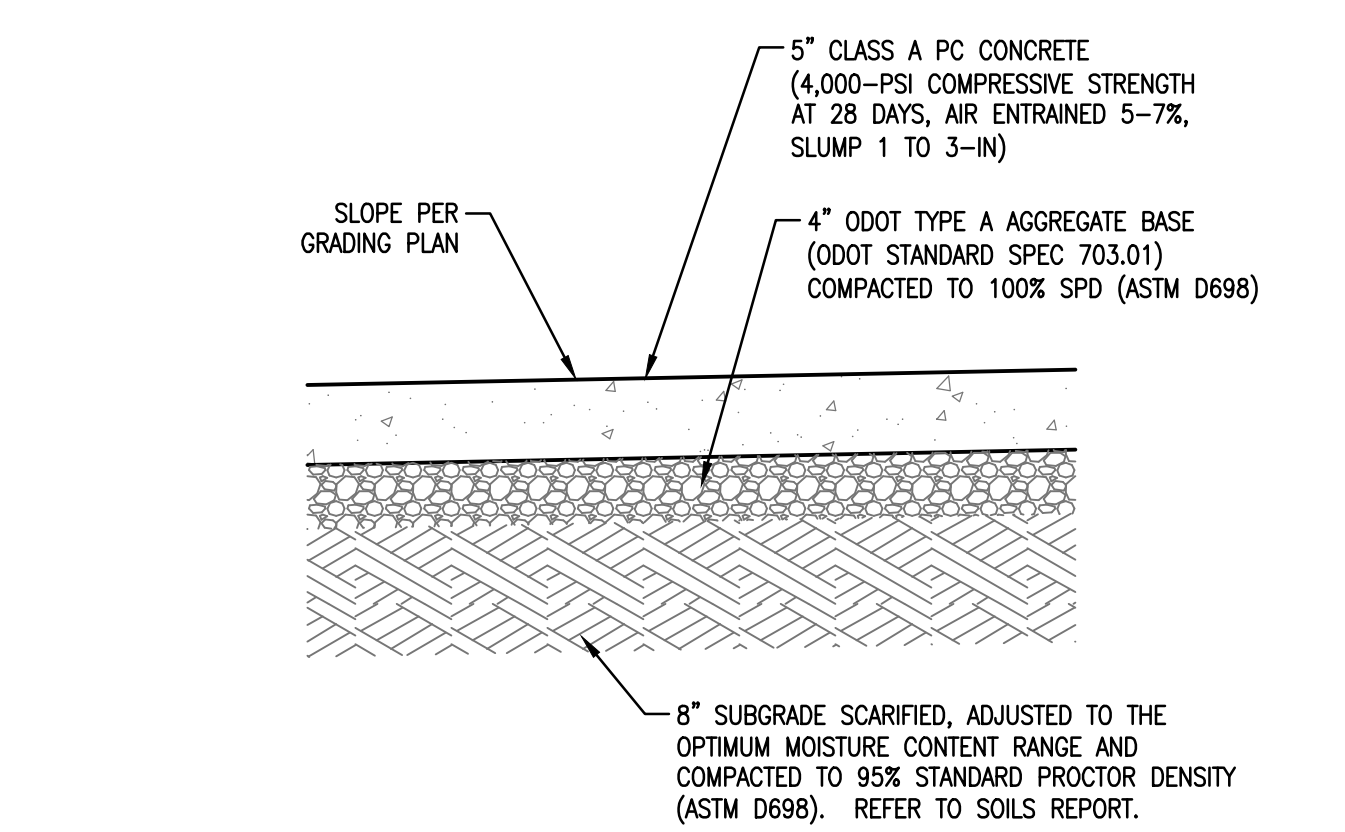
8 SIDEWALKS Scale: NTS



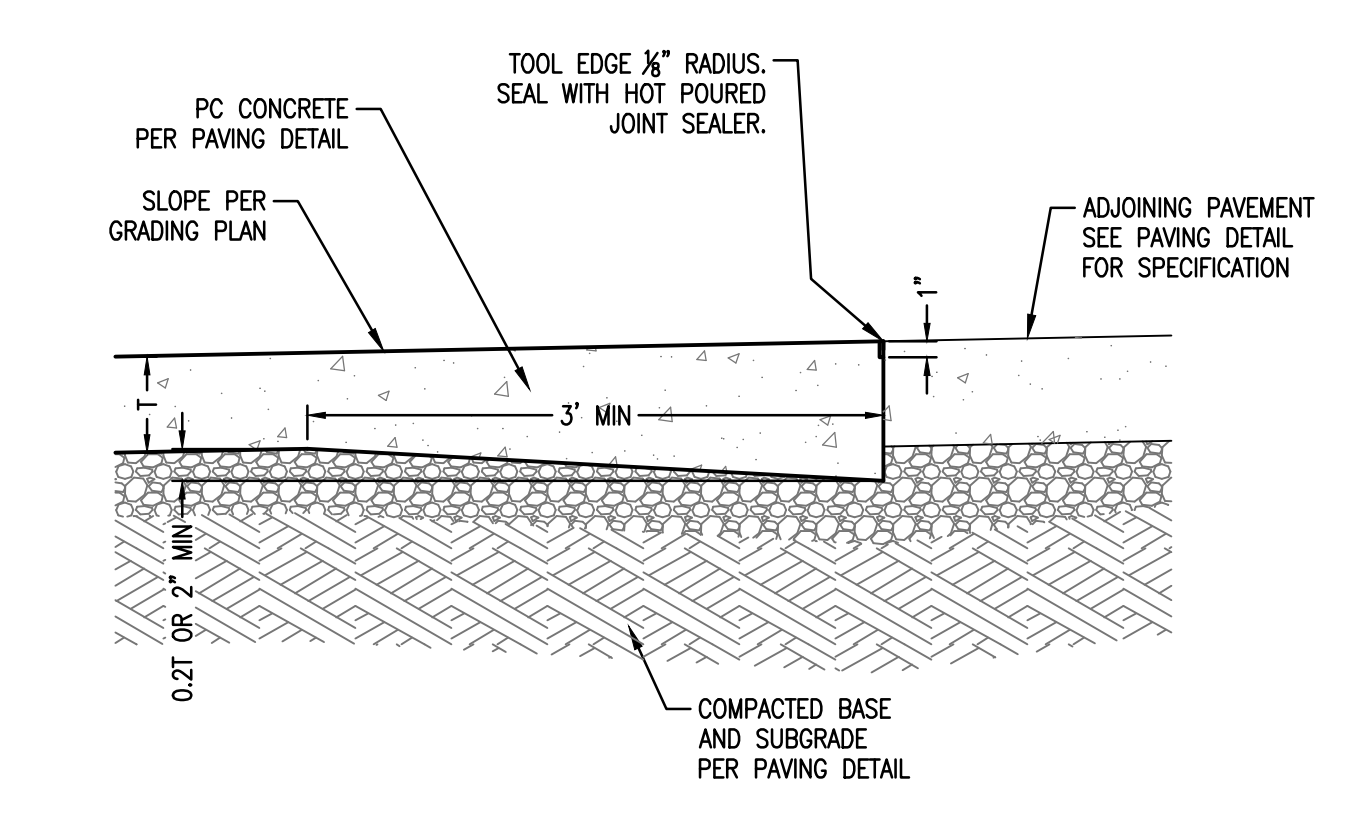
11 CURB RAMP (TYPE A) Scale: NTS



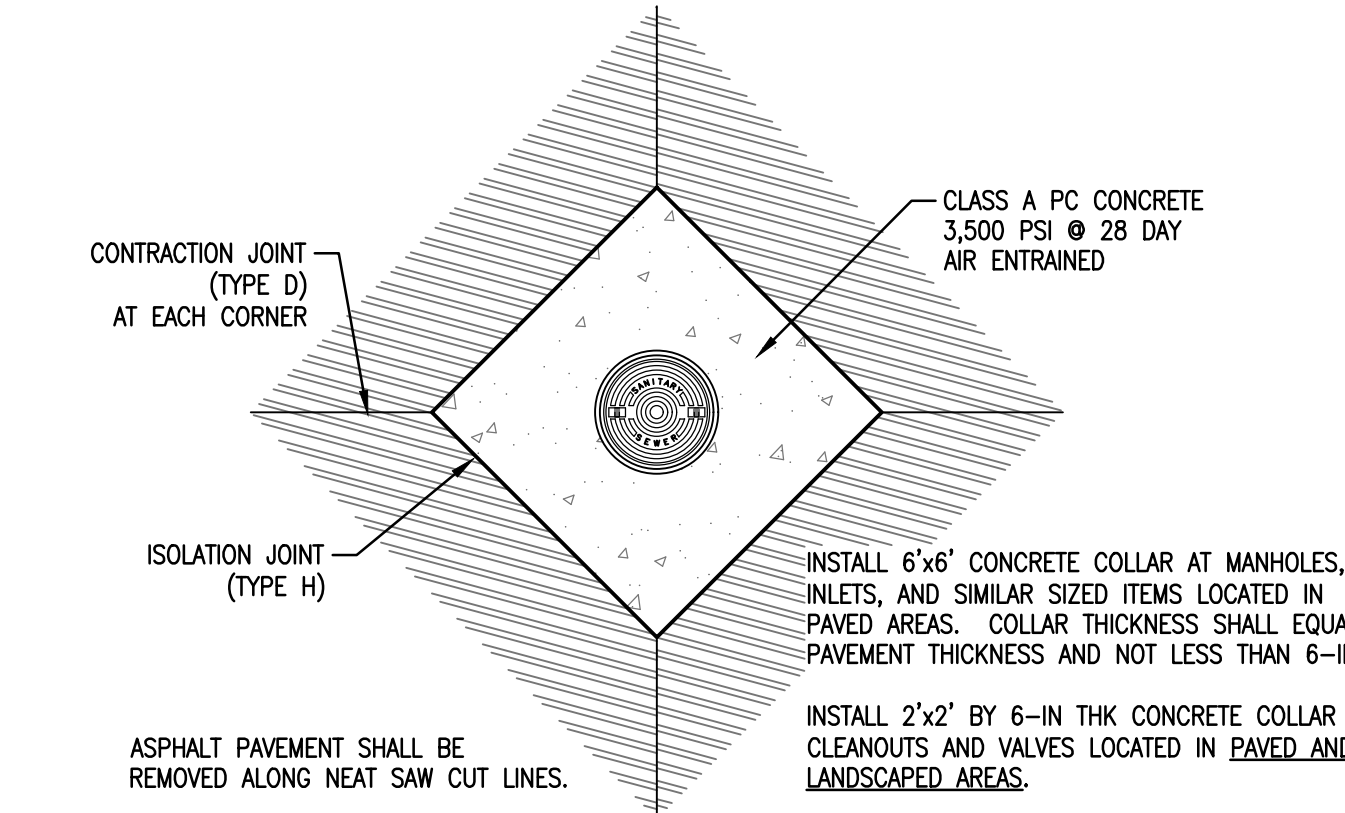
12 CURB RAMP (TYPE B) Scale: NTS



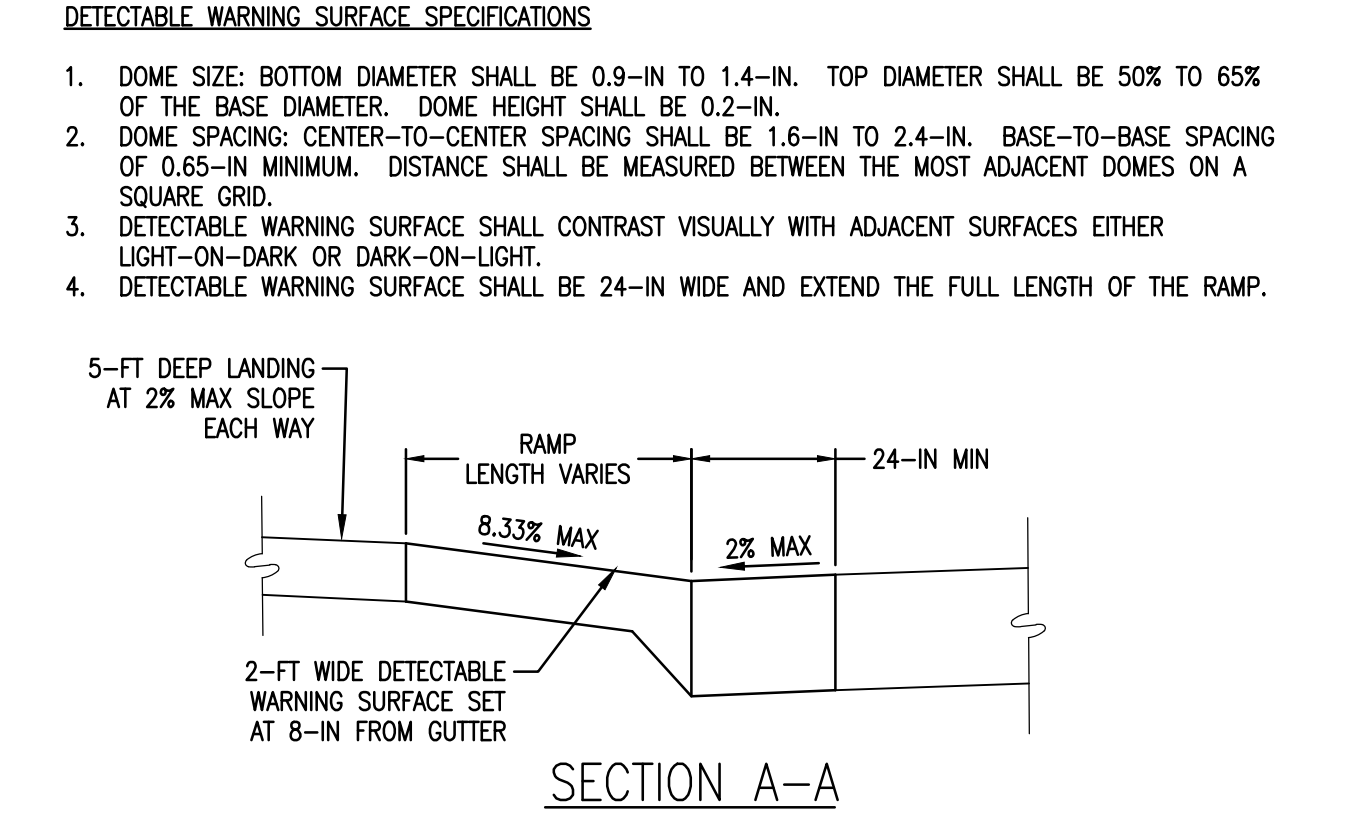
2 LIGHT DUTY PC CONCRETE PAVING Scale: NTS



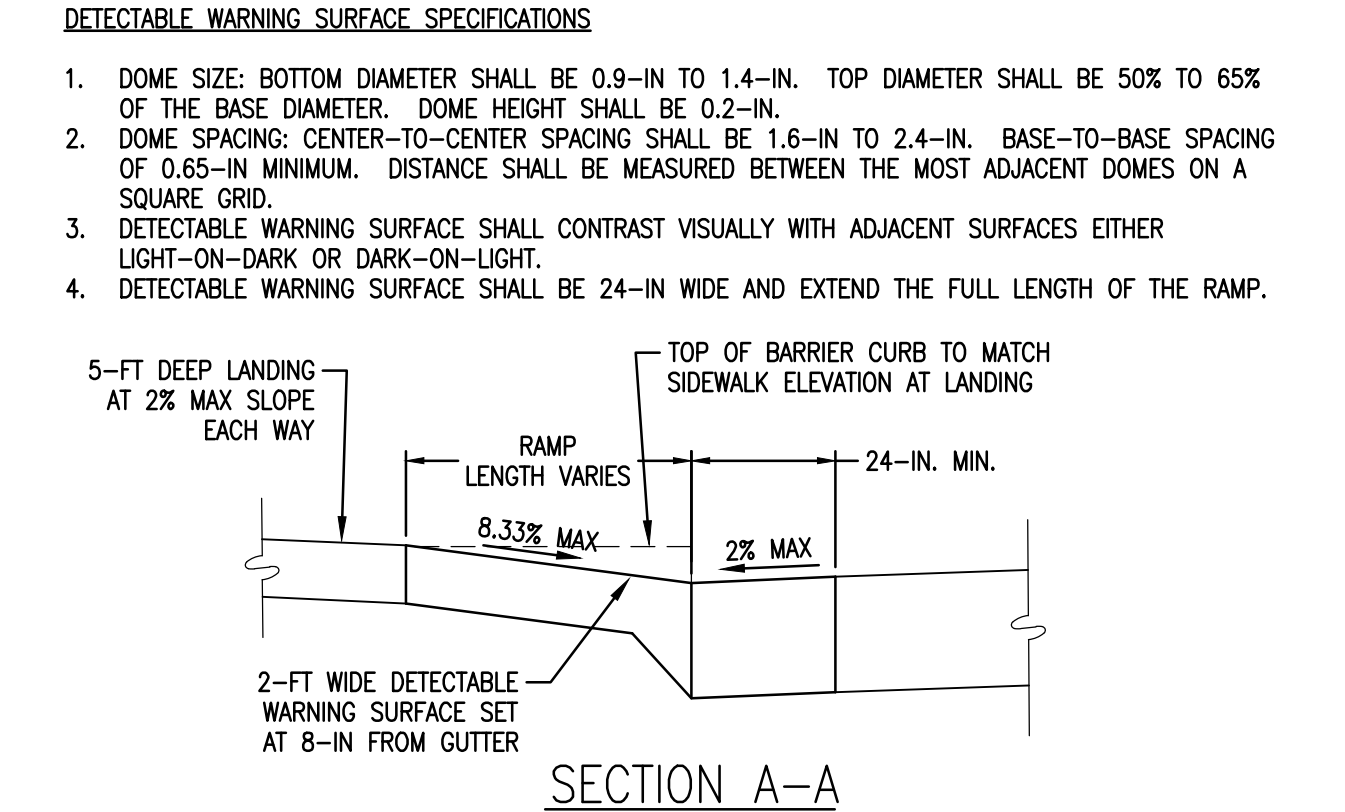
5 THICKENED CONCRETE EDGE Scale: NTS



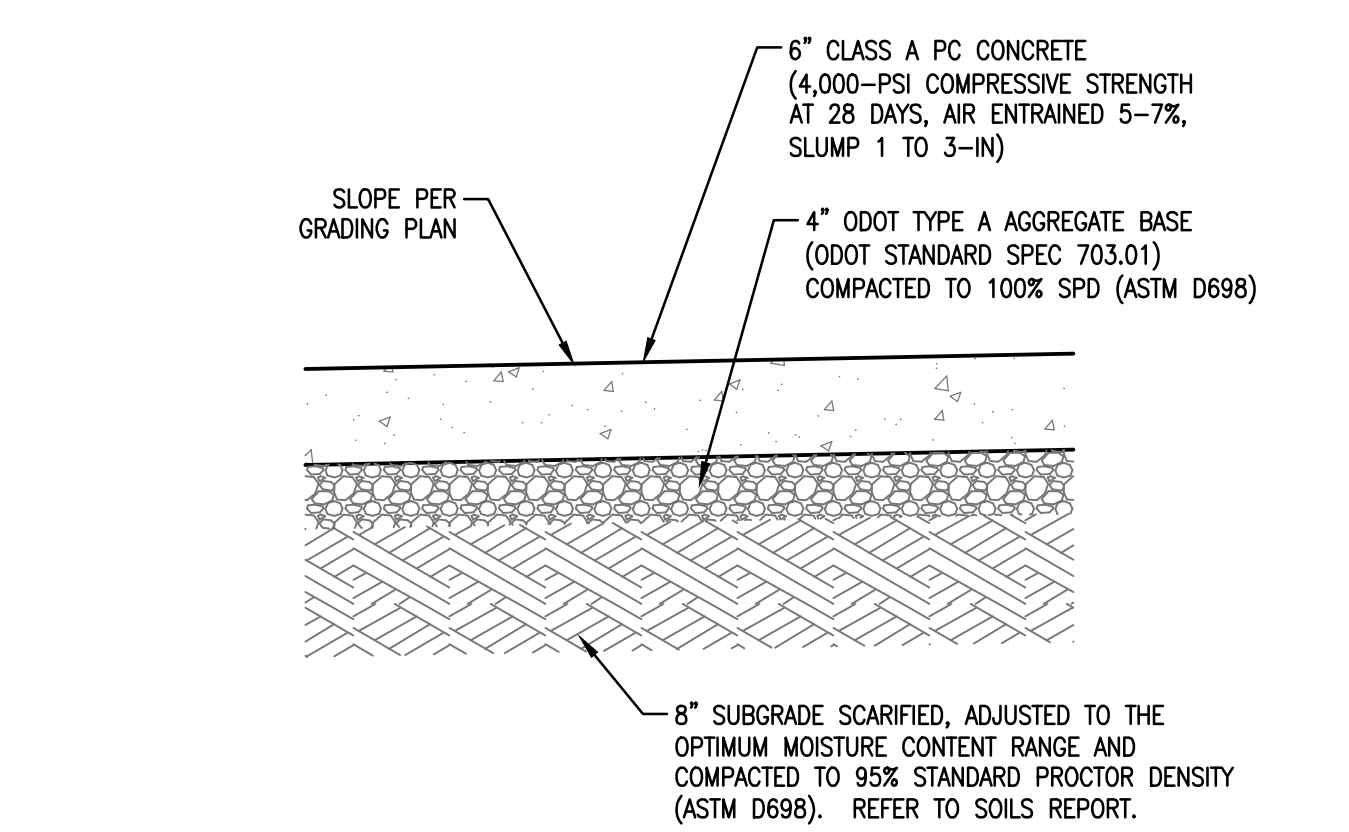
9 UTILITY ISOLATION CONCRETE COLLAR Scale: NTS



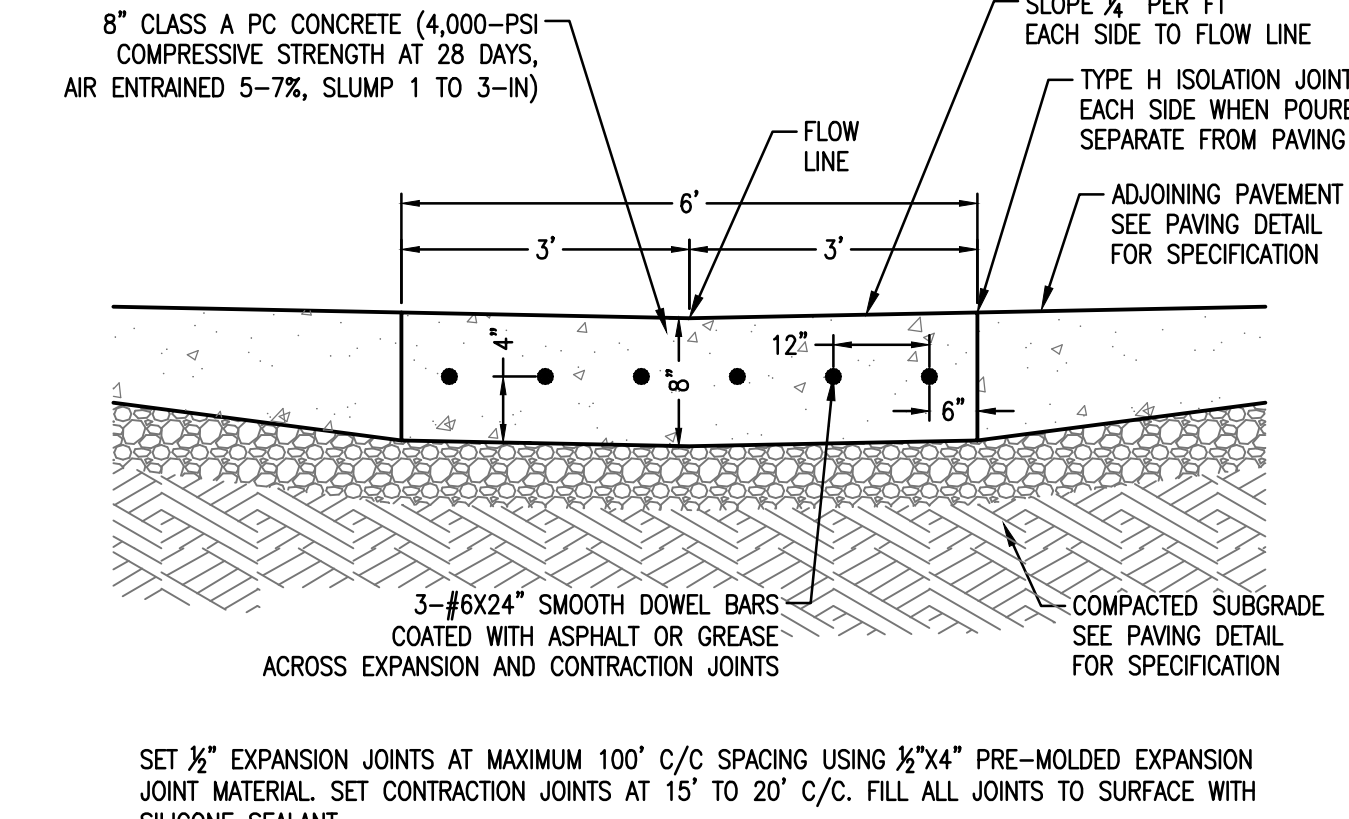
11 HANDRAILS AT ACCESSIBLE RAMP Scale: NTS



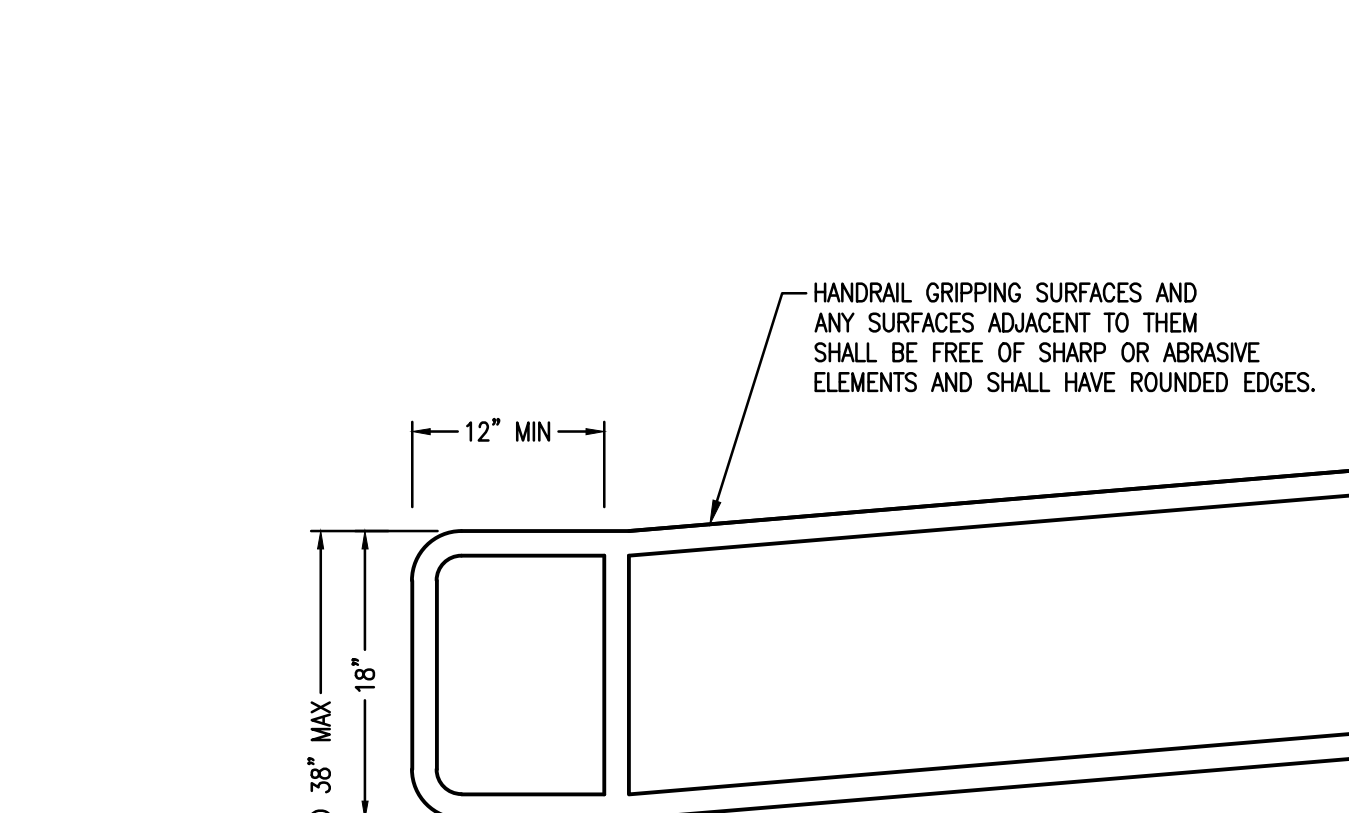
13 CURB RAMP (TYPE D) Scale: NTS



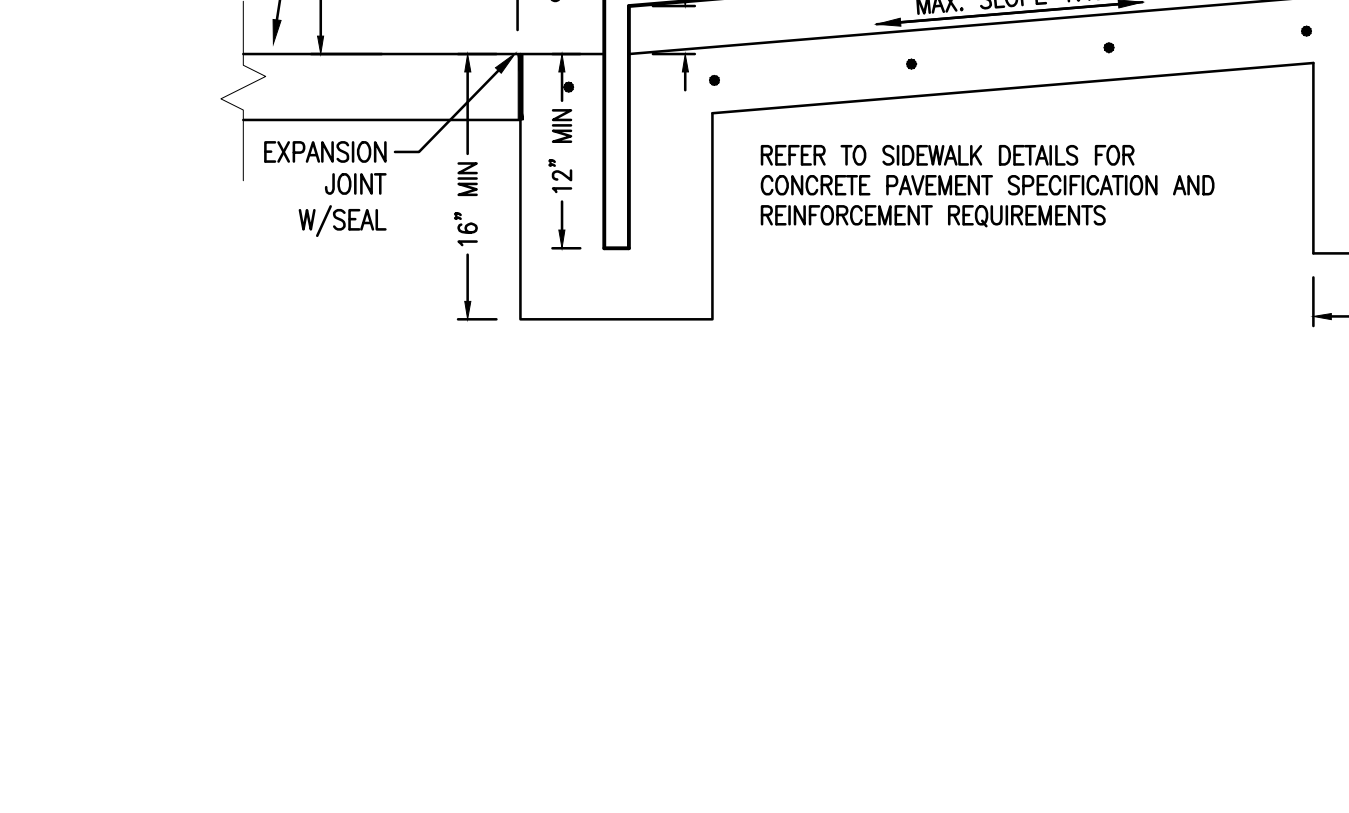
3 MEDIUM DUTY PC CONCRETE PAVING Scale: NTS



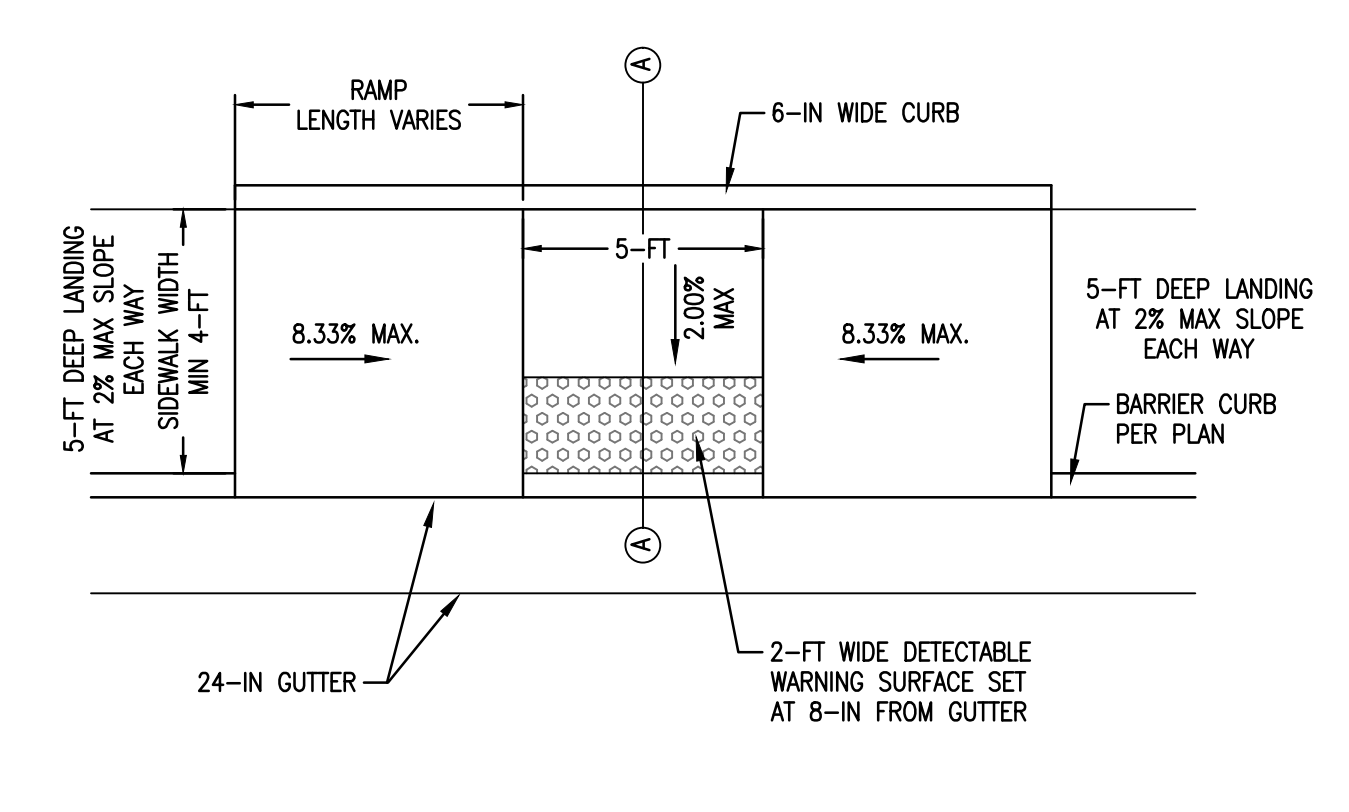
6 CONCRETE VALLEY GUTTER Scale: NTS



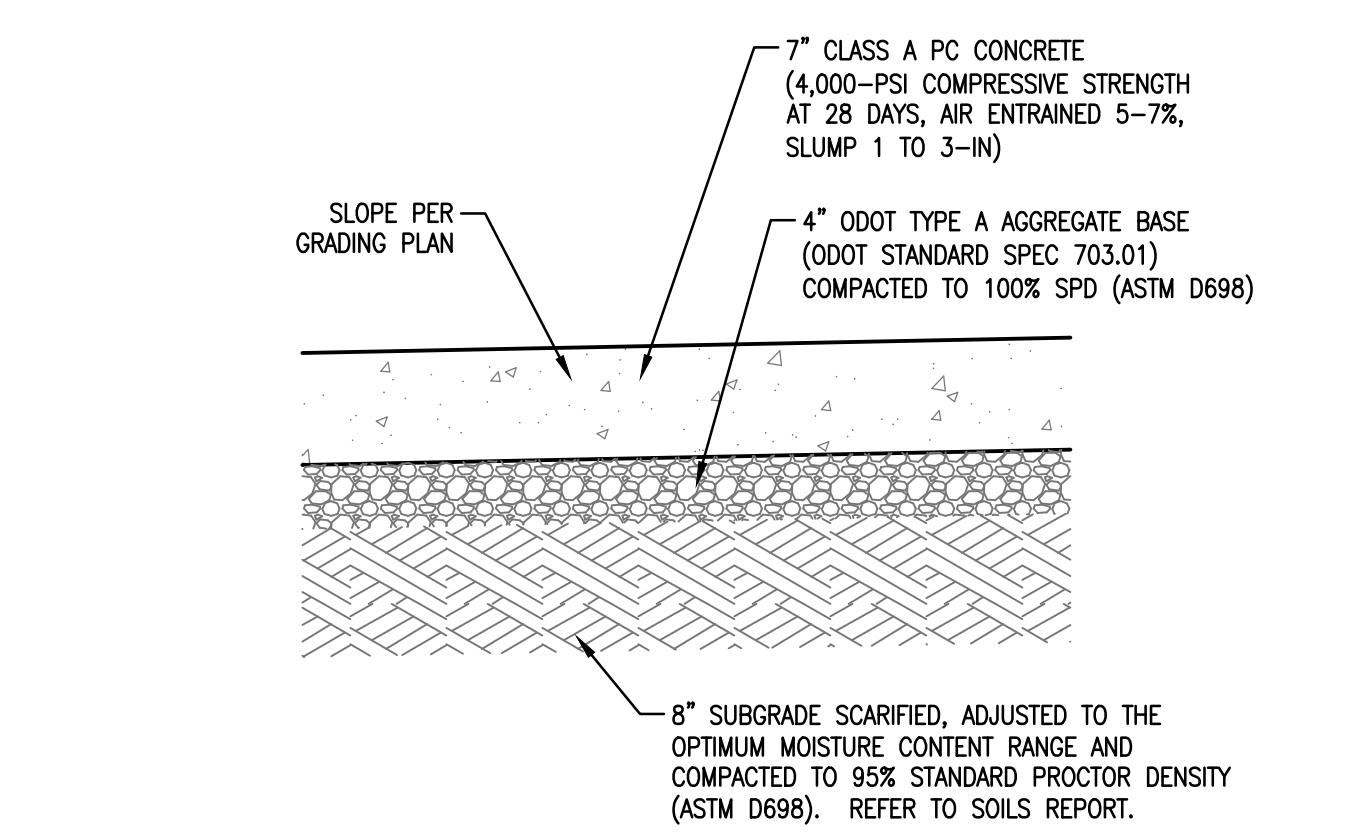
7 RIBBON CURB Scale: NTS



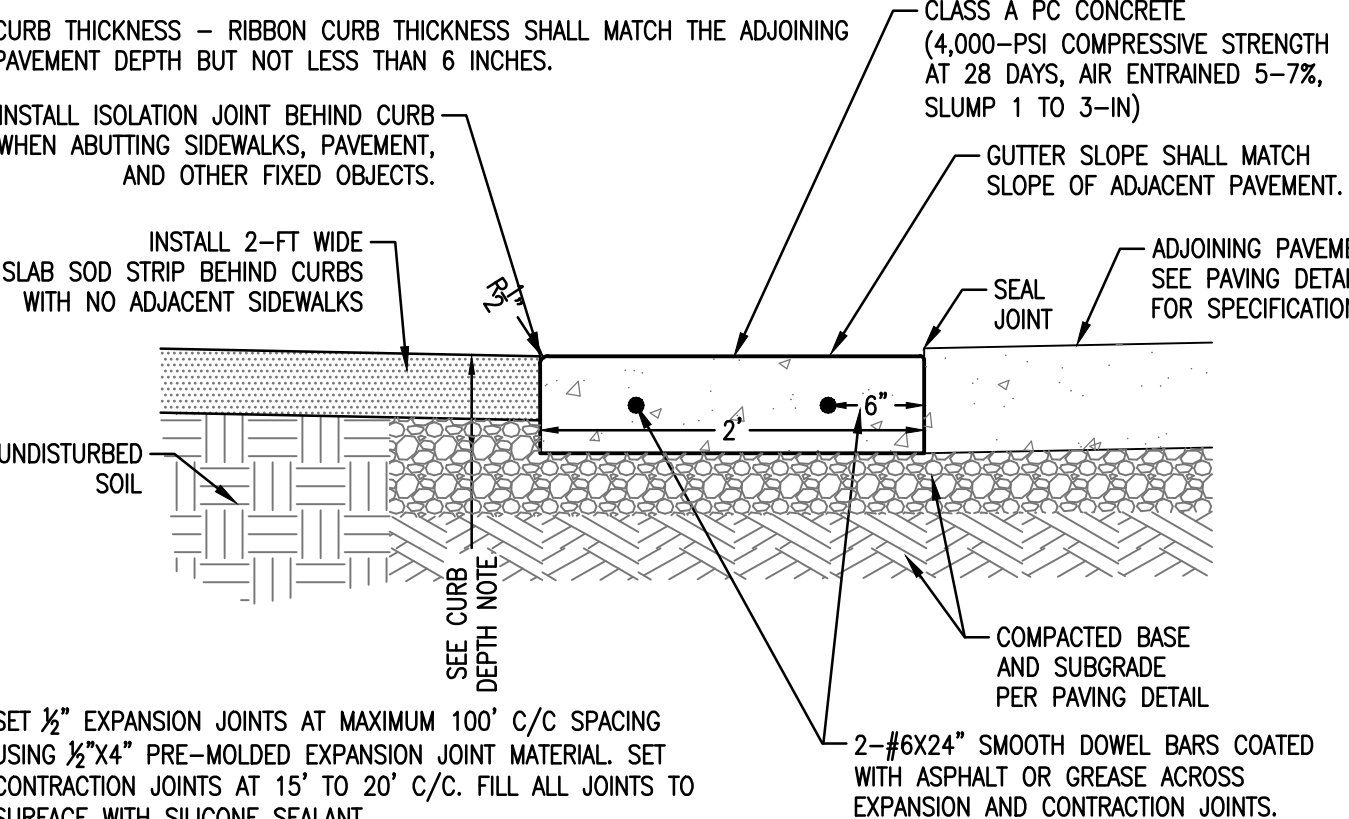
11 HANDRAILS AT ACCESSIBLE RAMP Scale: NTS



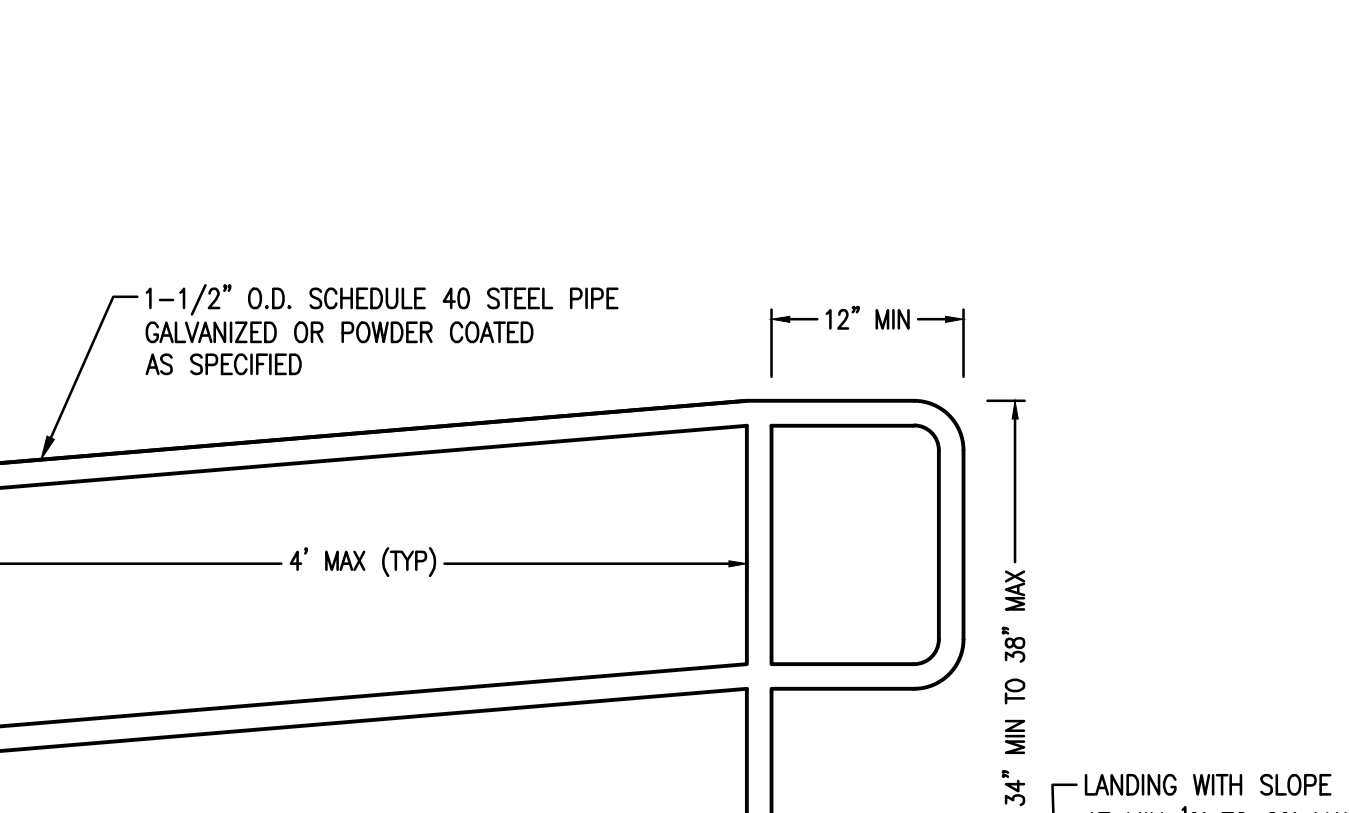
13 CURB RAMP (TYPE D) Scale: NTS



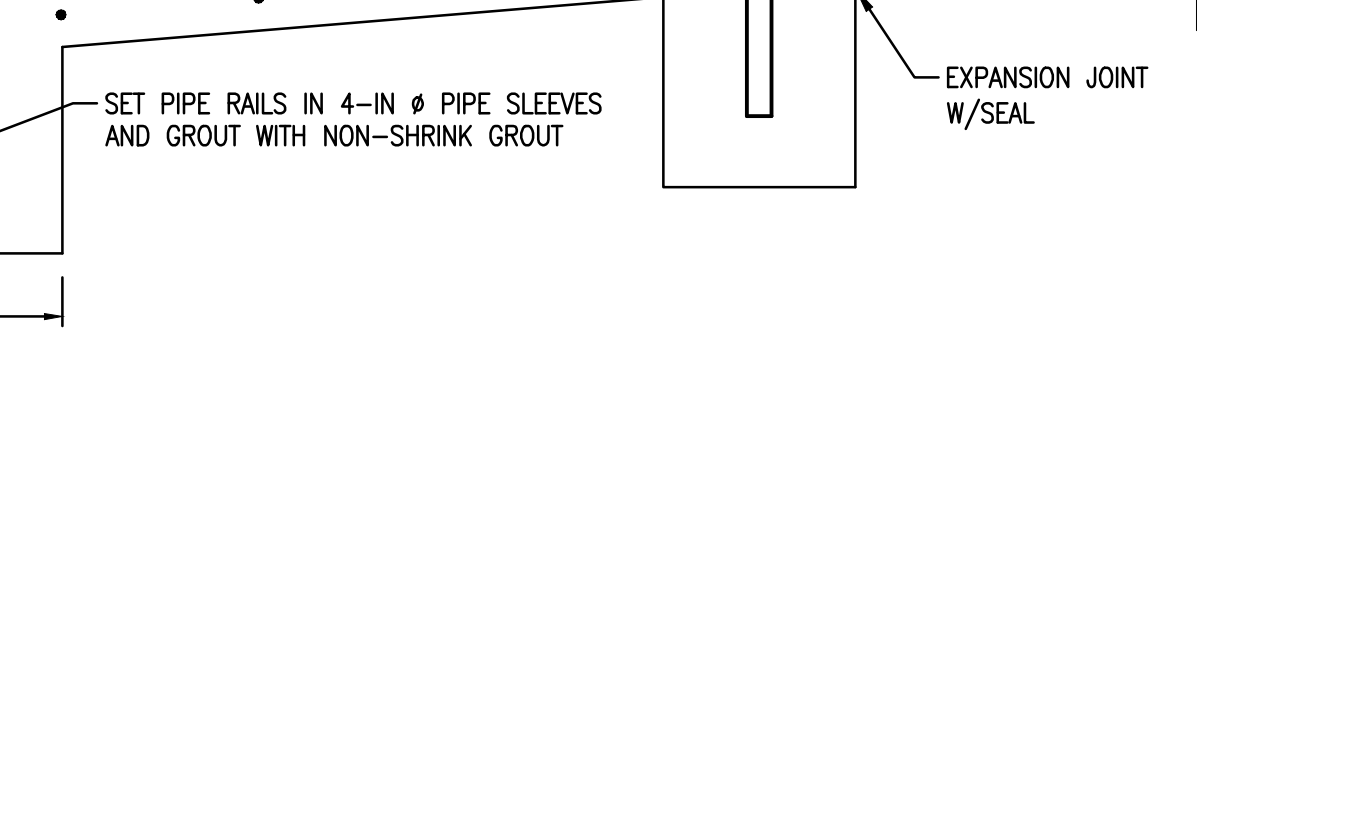
4 HEAVY DUTY PC CONCRETE PAVING Scale: NTS



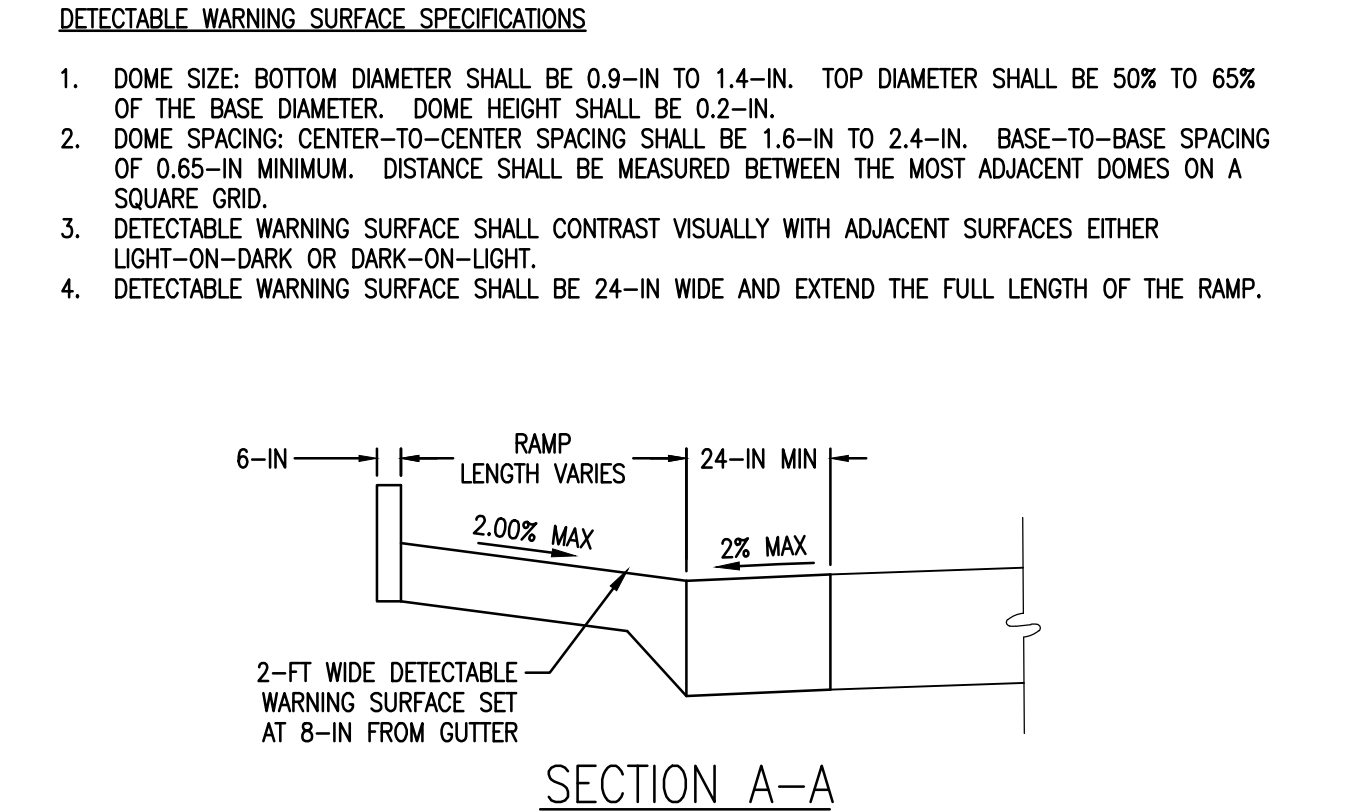
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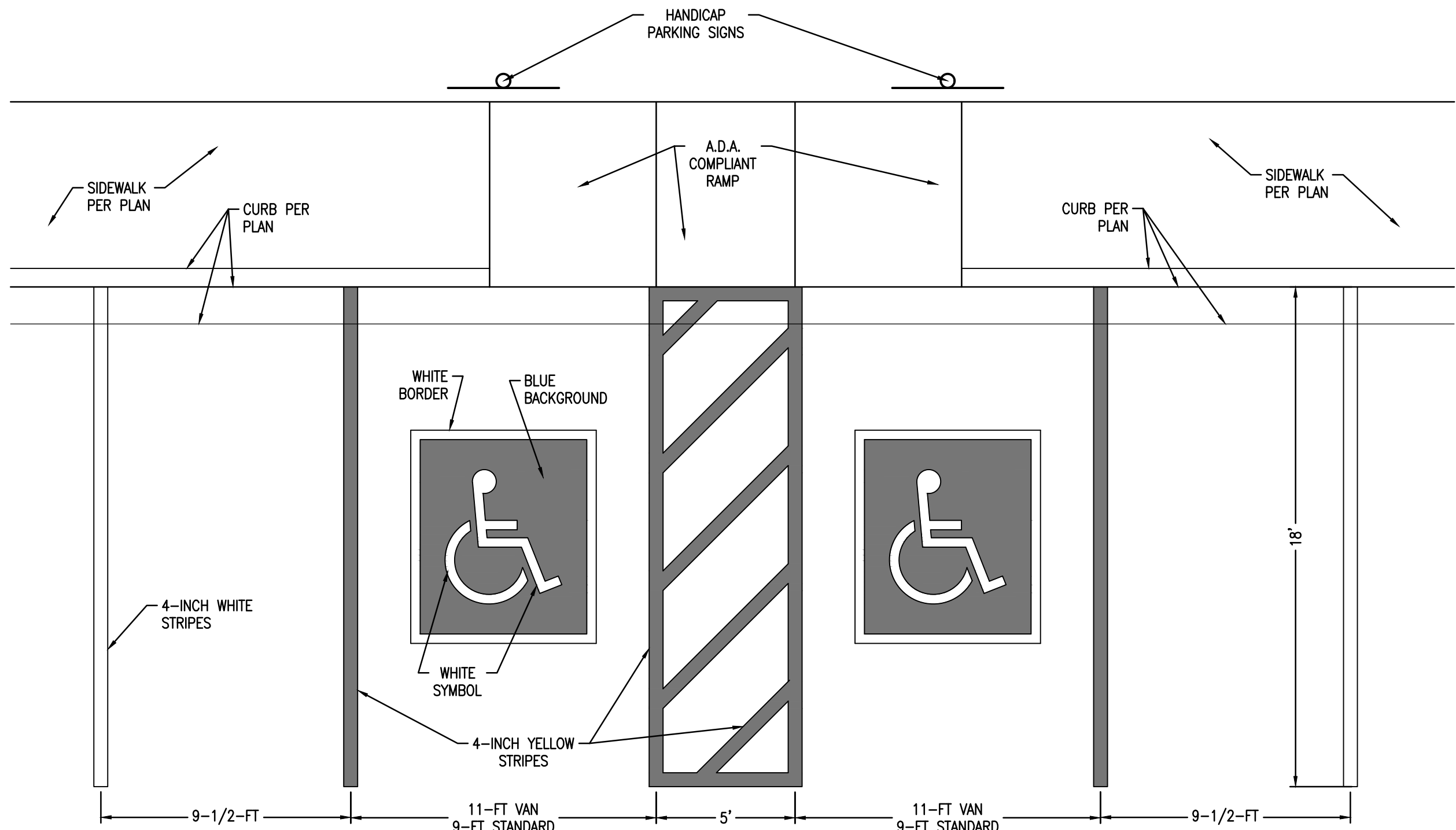
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13 CURB RAMP (TYPE D) Scale: NTS



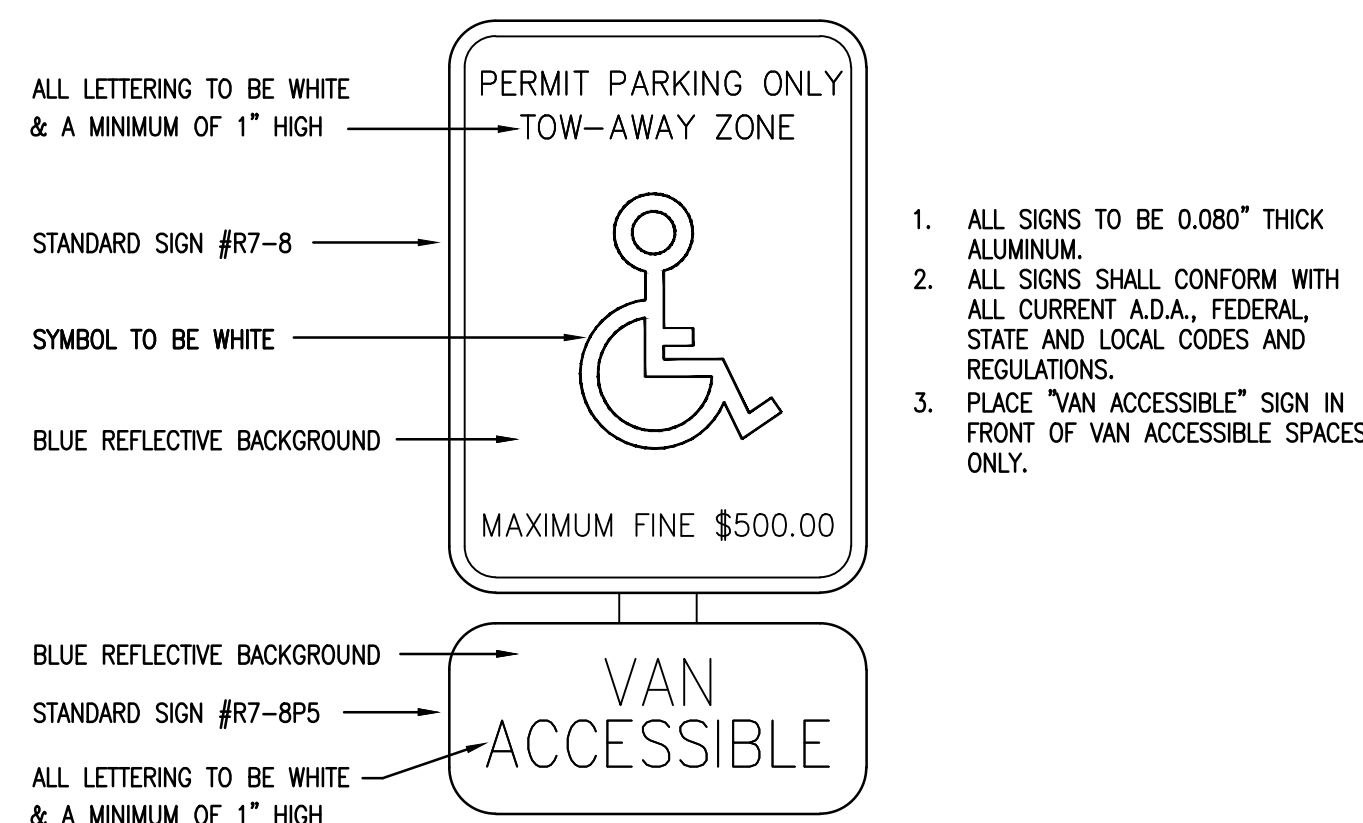
13 CURB RAMP (TYPE D) Scale: NTS



PARKING SPACE LINES SHALL BE PAINTED WHITE. HANDICAPPED ACCESS AISLES AND NO PARKING AREAS SHALL BE PAINTED YELLOW. HANDICAPPED PARKING SPACE SYMBOLS SHALL BE PAINTED BLUE AND WHITE AS SHOWN IN DETAIL PROVIDED. FIRELANE STRIPING SHALL BE PAINTED RED. PAVEMENT STRIPING SHALL BE APPLIED IN TWO COATS, FOUR (4) INCHES WIDE, UNLESS SHOWN OTHERWISE ON THE PLANS.

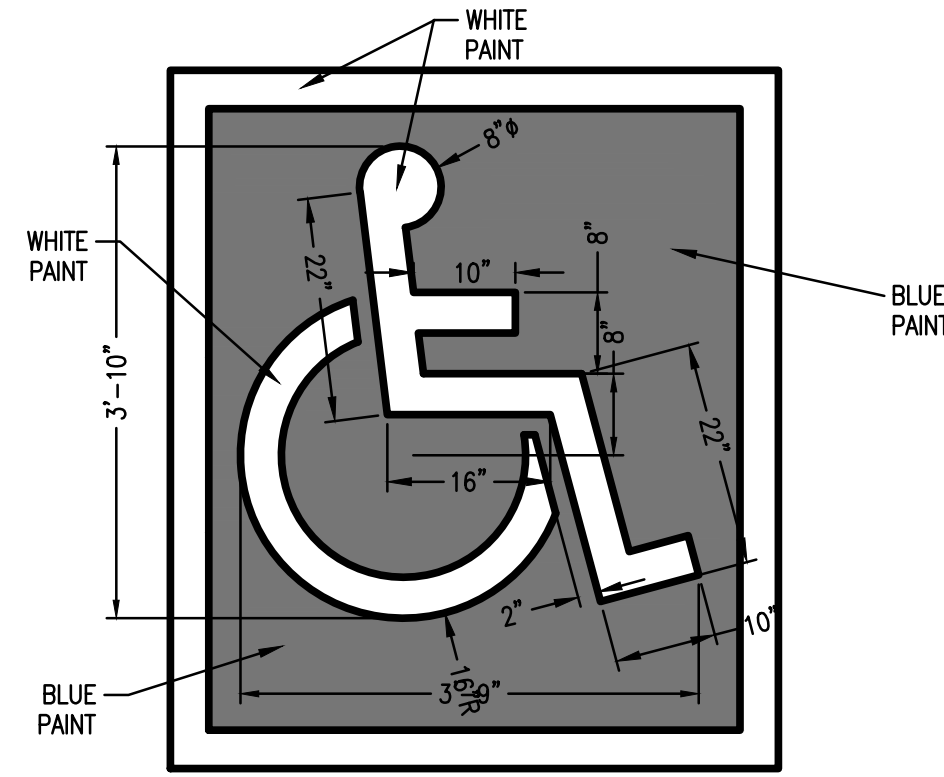
1 PARKING SPACE PAINT STRIPING

Scale: NTS



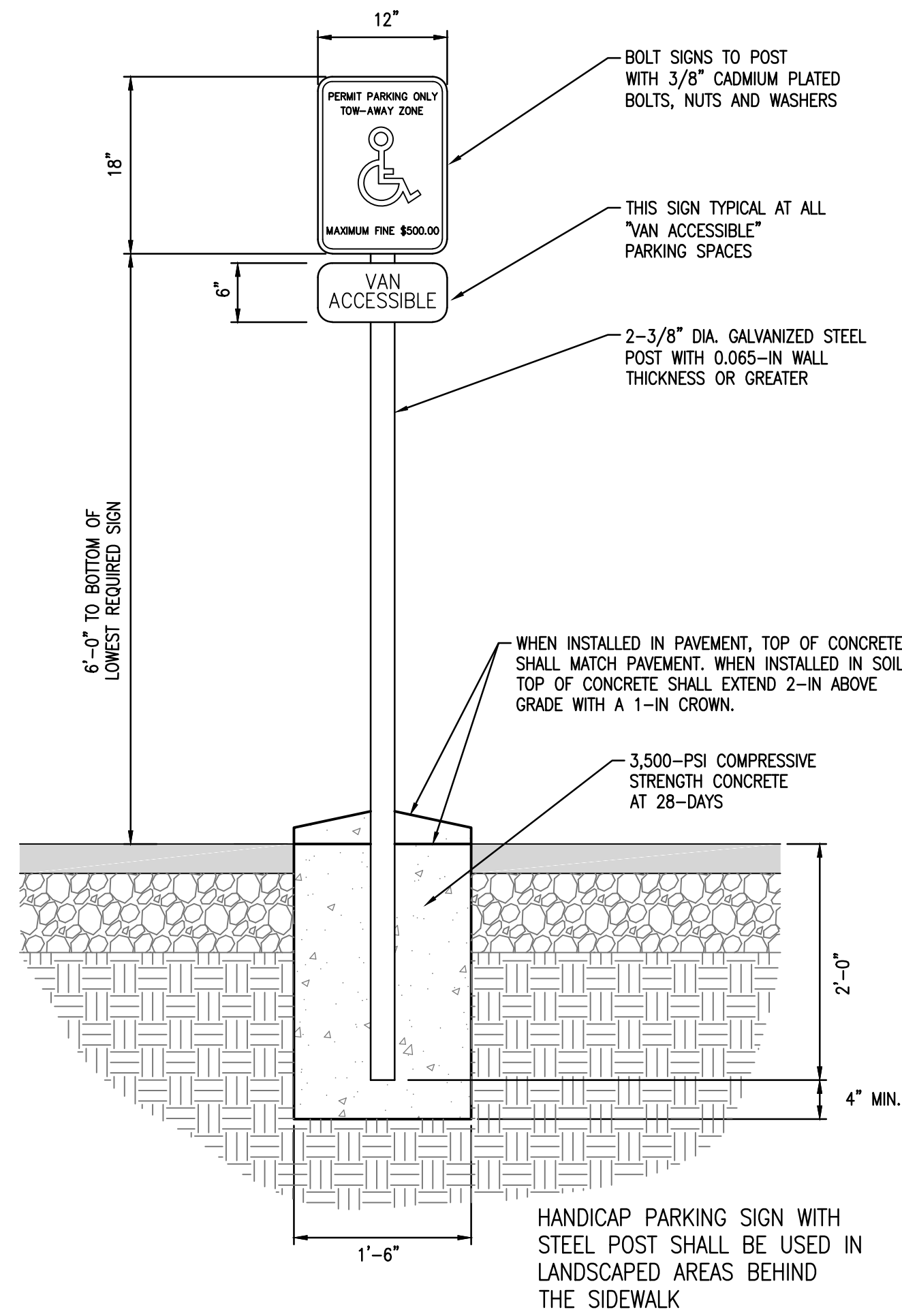
4 HANDICAP PARKING SIGN

Scale: NTS



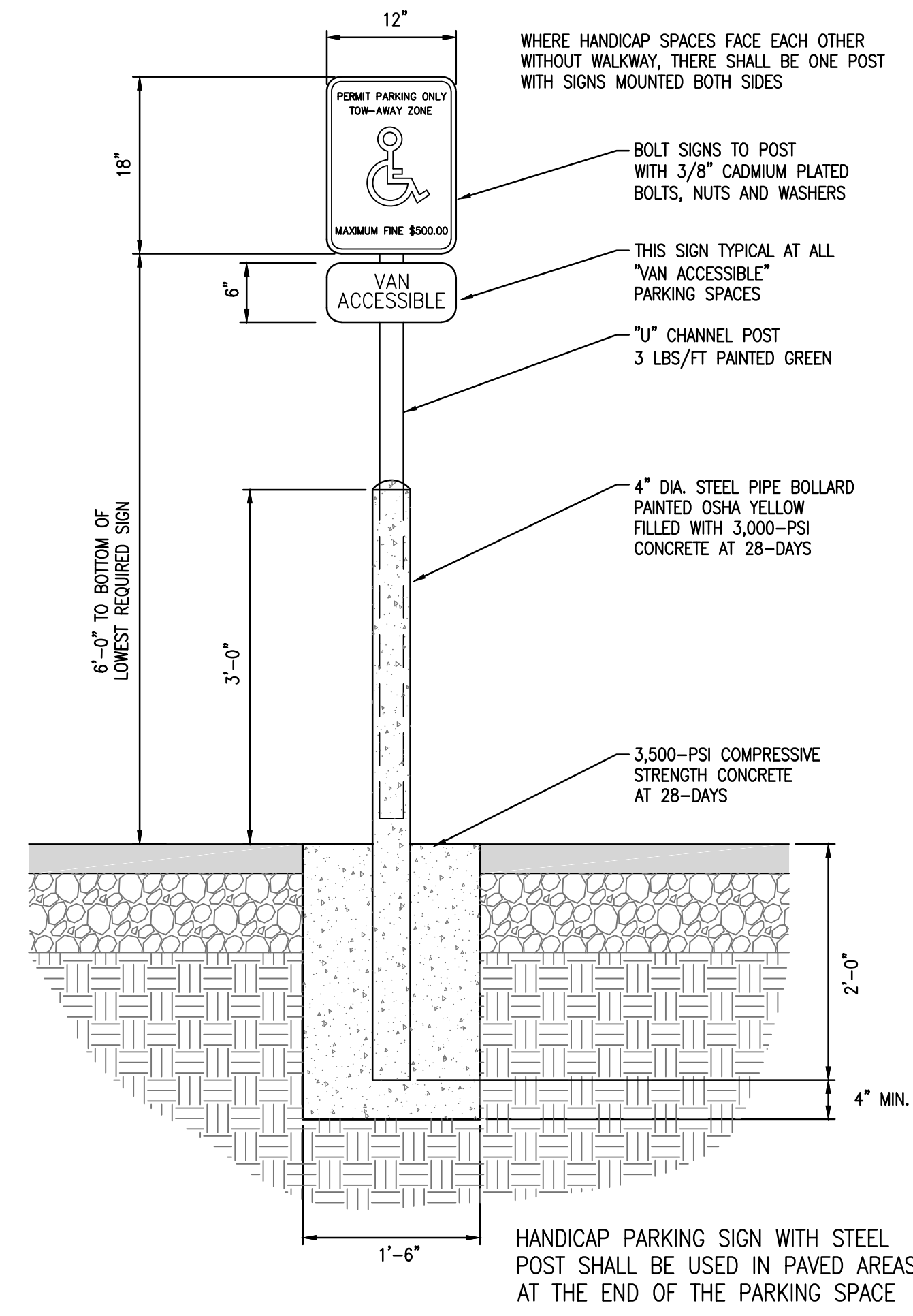
5 HANDICAP PARKING PAVEMENT MARKING

Scale: NTS



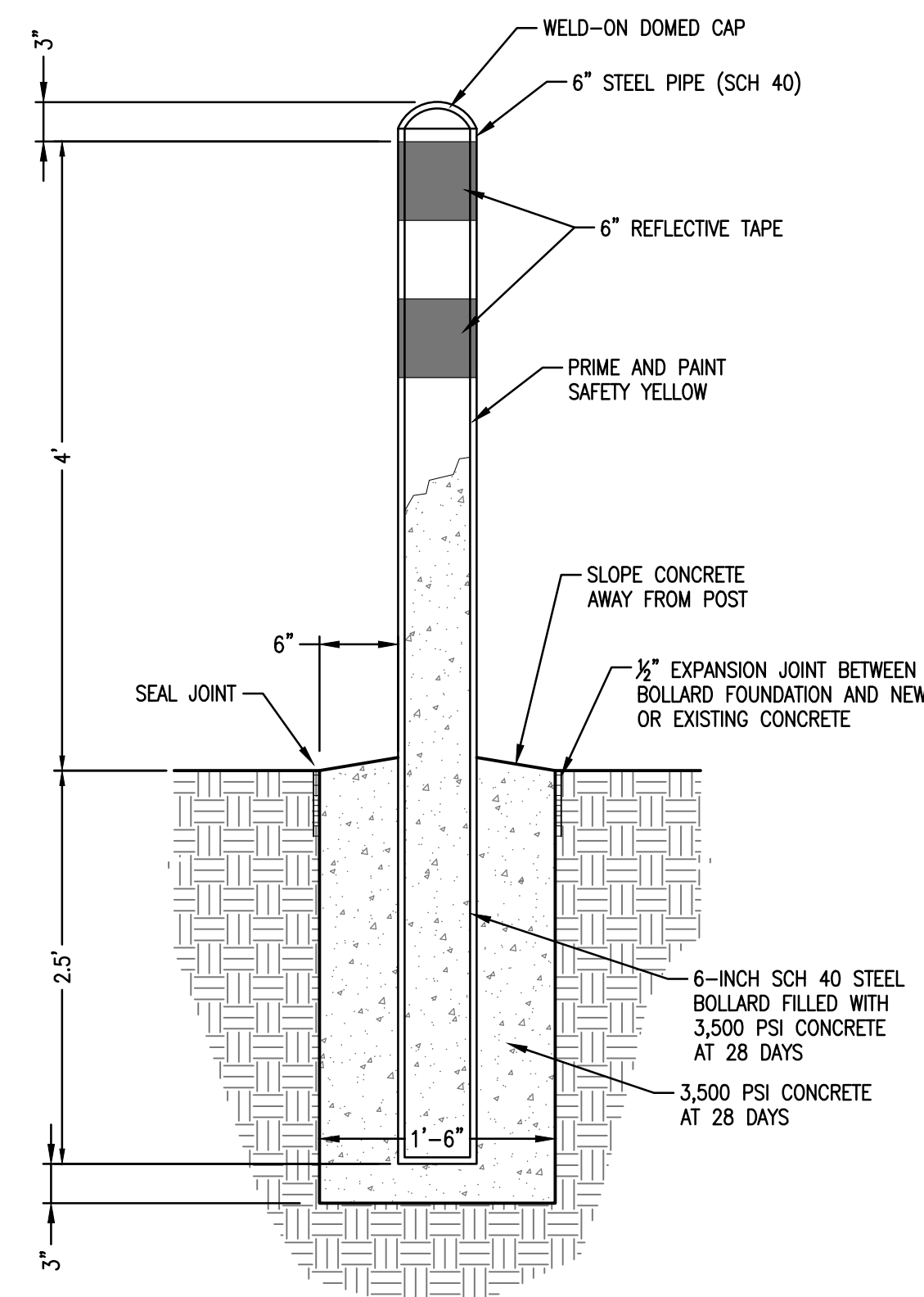
2 HANDICAP SIGN WITH STEEL POST

Scale: NTS



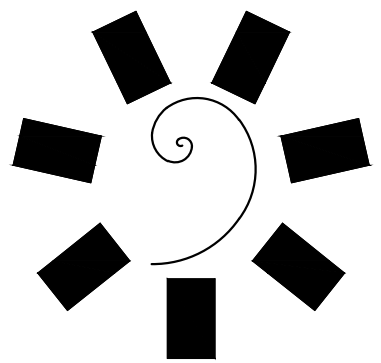
3 HANDICAP SIGN WITH BOLLARD POST

Scale: NTS



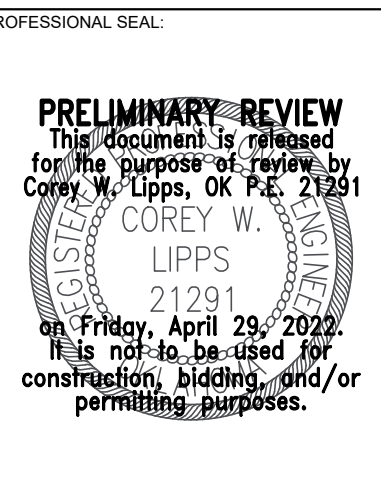
6 BOLLARDS

Scale: NTS



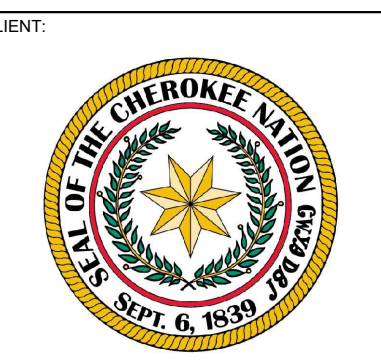
James R. Childers
Architect, Inc.

45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

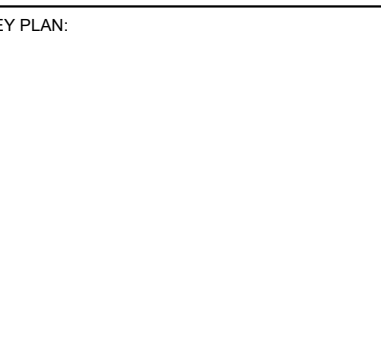


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CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA



PROJECT PHASE:
SCHEMATIC DESIGN

REVISIONS

JOB NUMBER: 21-08.21

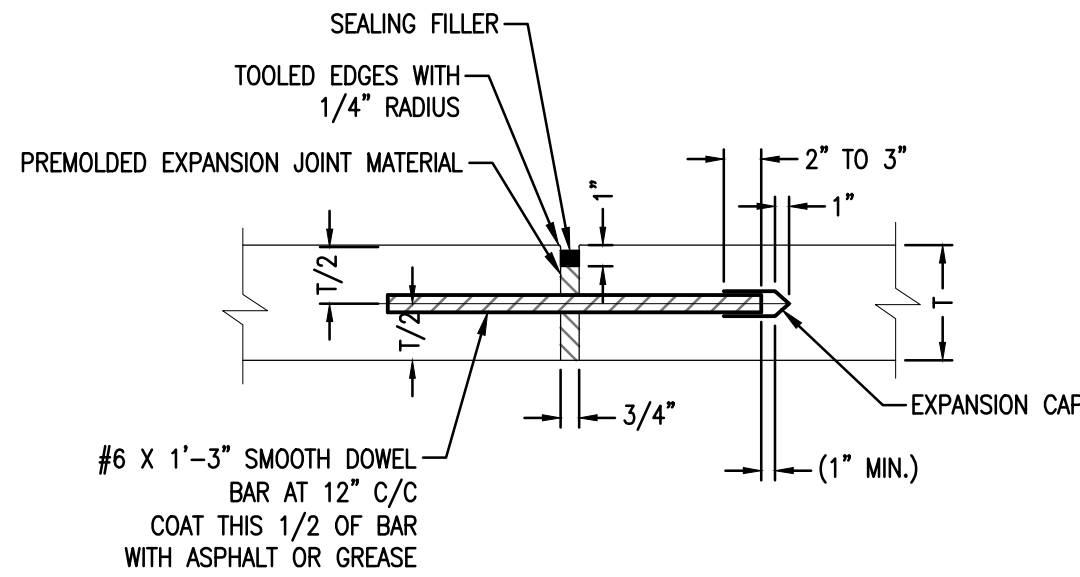
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C3-502

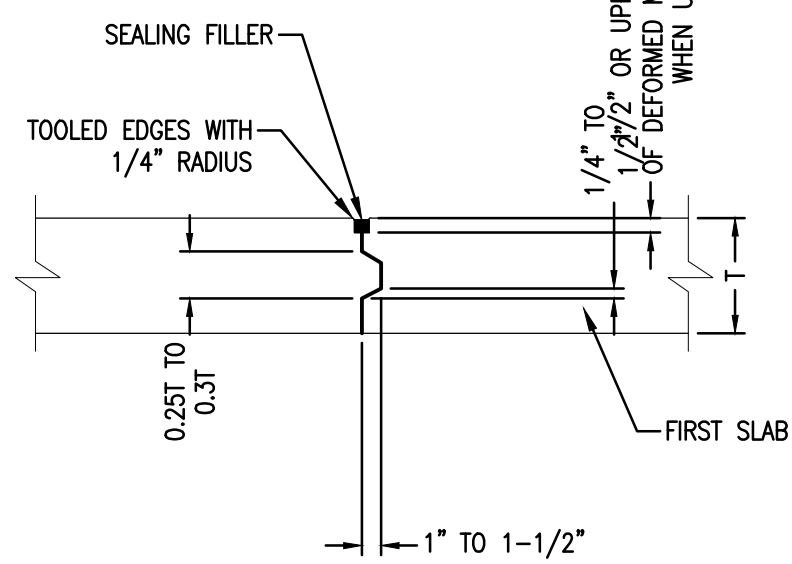
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SITE DETAILS



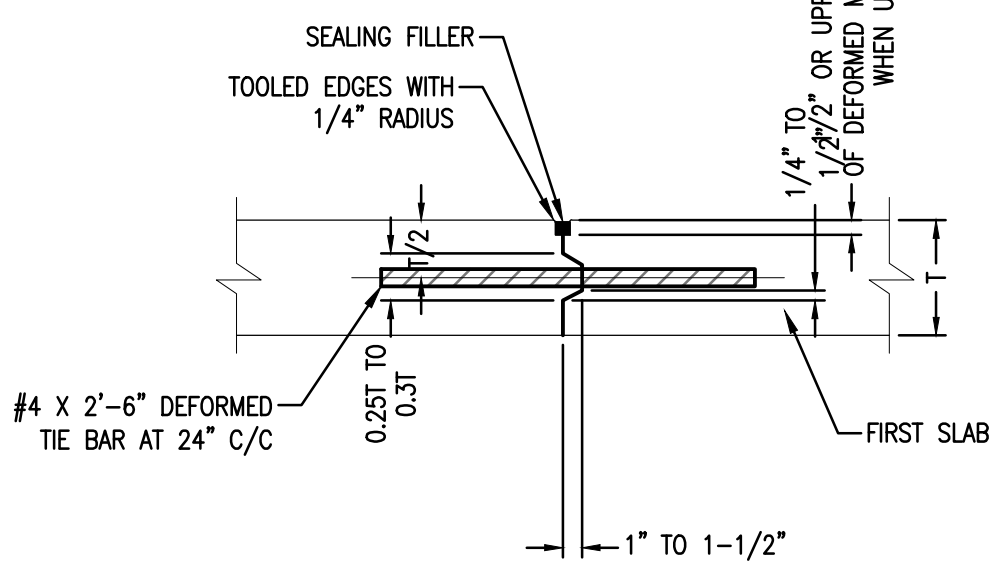
SMOOTH DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION CAPS, AND COATED WITH ASPHALT OR GREASE. GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

EXPANSION JOINT (TYPE A)



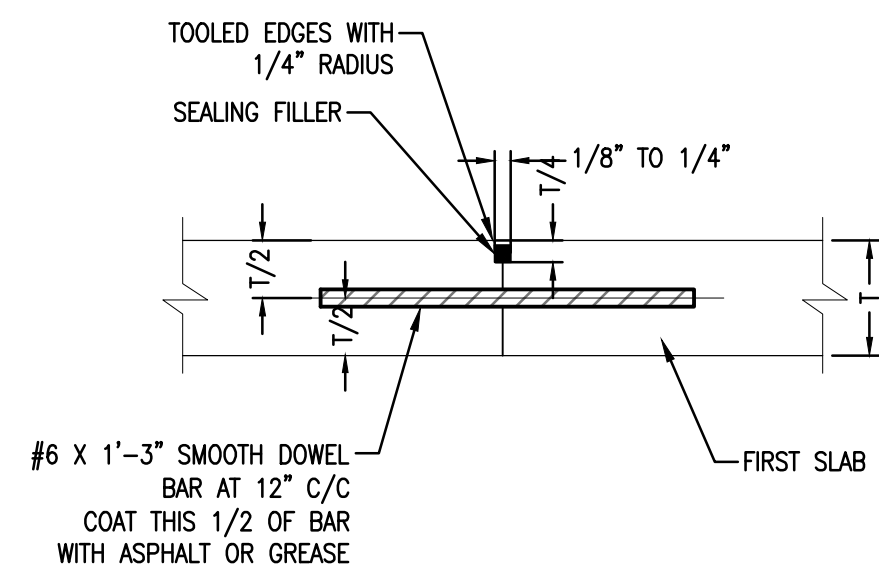
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TONGUE & GROOVE CONSTRUCTION JOINT (TYPE C)



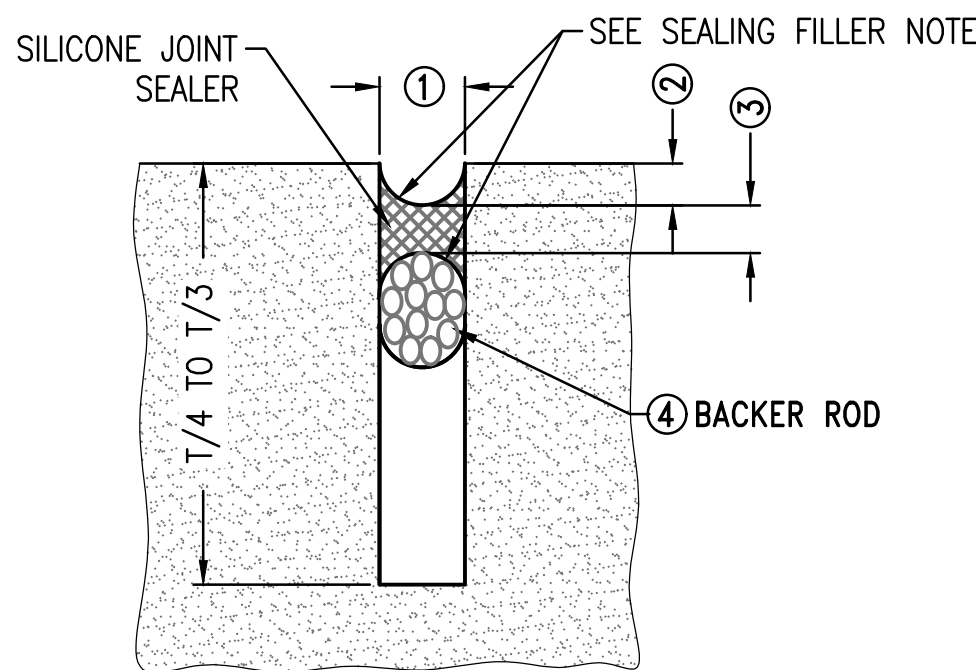
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TIED CONSTRUCTION JOINT (TYPE E)

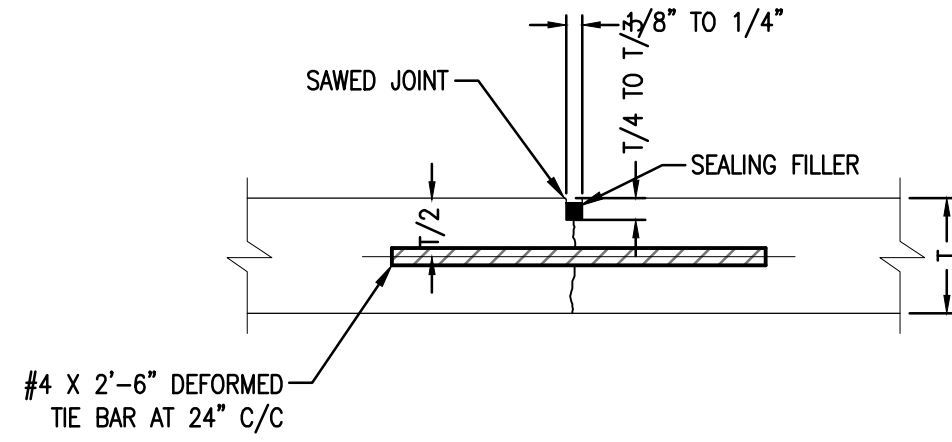


GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

DOWELED CONSTRUCTION JOINT (TYPE G)

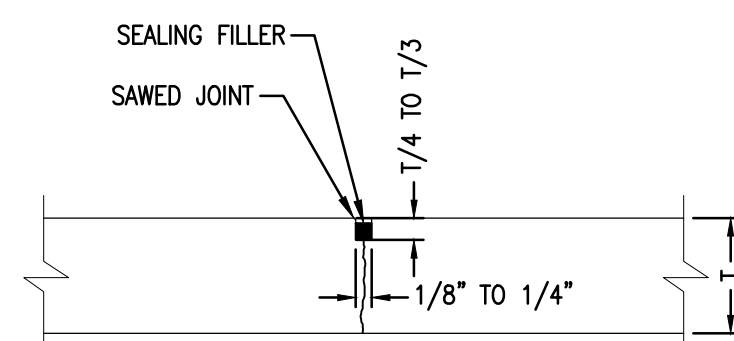


CONTRACTION JOINT
SEALING FILLER



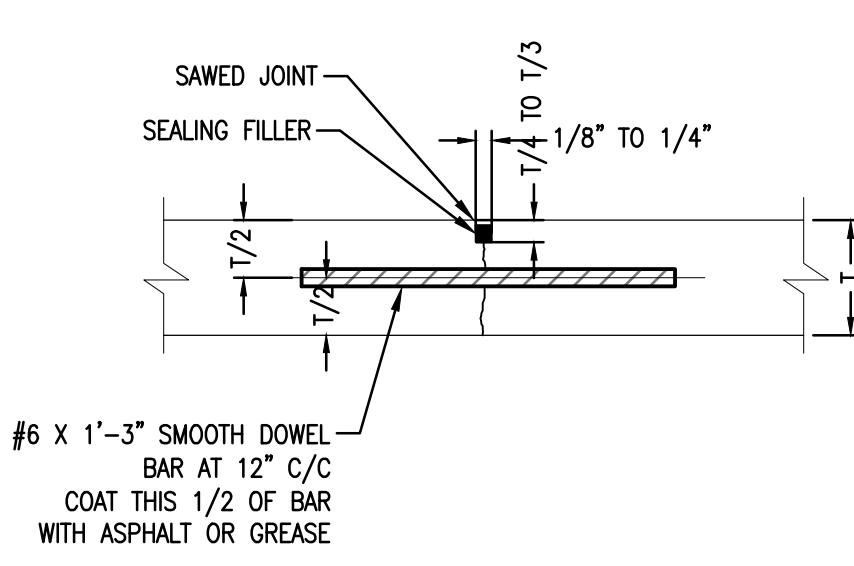
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TIED JOINT (TYPE B)



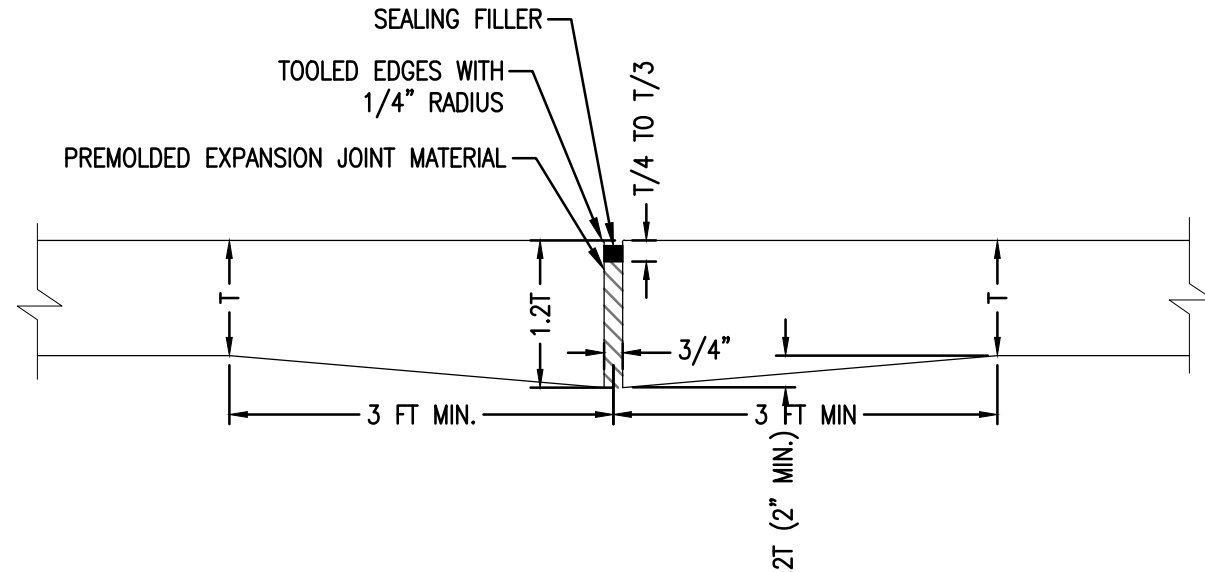
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

CONTRACTION JOINT (TYPE D)



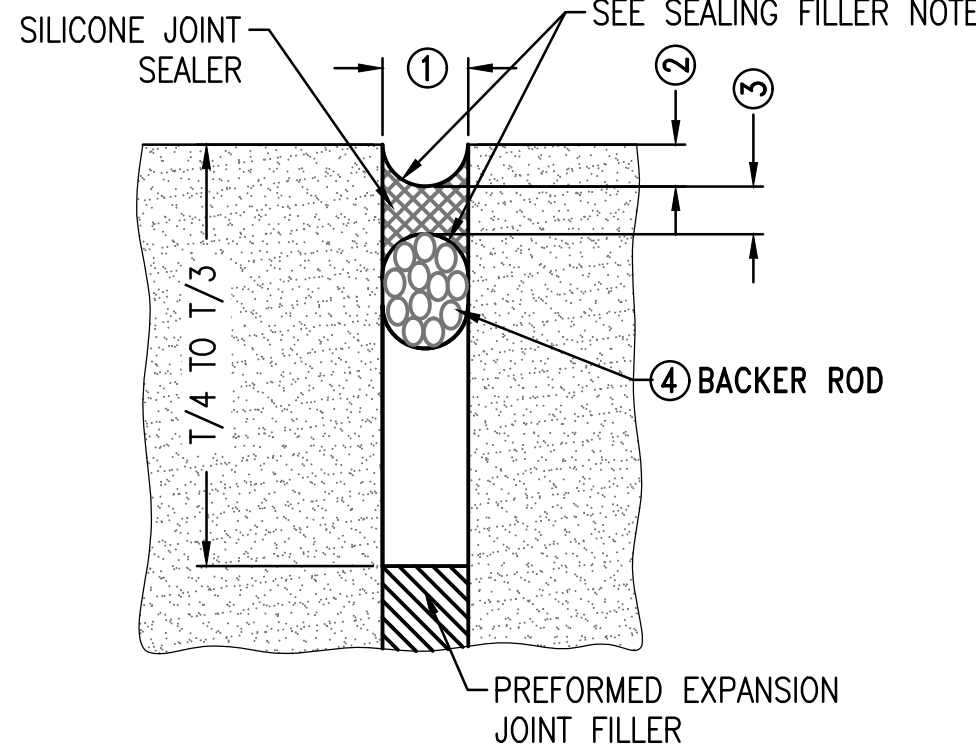
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

DOWELED CONTRACTION JOINT (TYPE F)



FORM ISOLATION JOINTS OF PREFORMED EXPANSION JOINT MATERIAL STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, AND WHERE INDICATED.

ISOLATION JOINT (TYPE H)



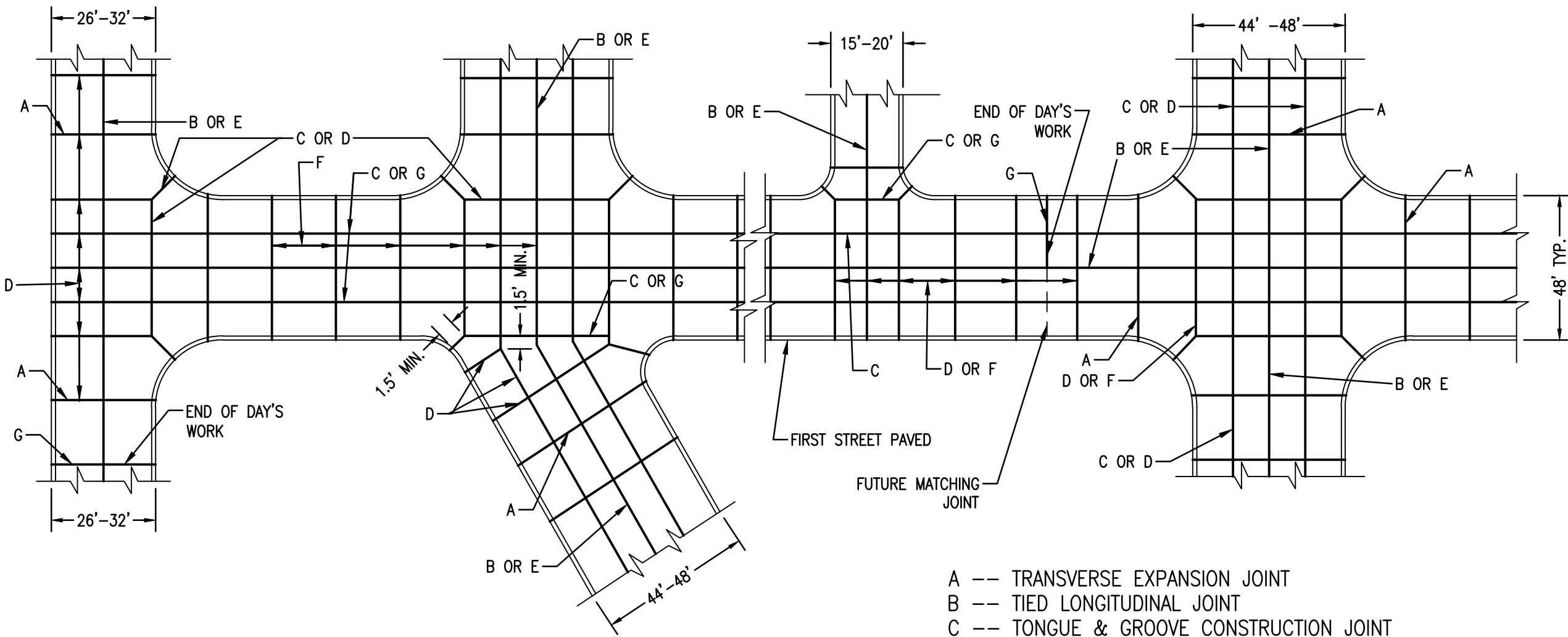
EXPANSION JOINTS / ISOLATION JOINTS
SEALING FILLER

JOINT REQUIREMENTS

- Avoid odd-shaped slabs.
- The maximum transverse joint spacing for drives shall be 24 to 30 times the slab thickness or 15 ft, whichever is less. Divide the length between the concrete being placed into equally spaced joints.
- Slabs shall be as square as possible. The length of a panel shall not be more than 25% greater than its width.
- All transverse contraction joints shall be continuous through the curb and have a depth equal to 1/4 to 1/2 the pavement thickness.
- In isolation joints, the filler shall be full depth and extend through the curb.
- If there is no curb, longitudinal joints shall be tied with deformed tie bars.
- Offsets at radius points shall be at least 1.5 ft wide. Joint intersection angles less than 60 degrees shall be avoided.
- Minor adjustments in joint location made by shifting or skewing to meet inlets and manholes is allowable.
- Place joints to meet drainage structures, if possible.
- In parking lots, tie bars shall be used in the first longitudinal joint from the pavement edge to keep the outside slab from separating from the pavement. Tie bars are not required in the interior joints of parking lots and other wide paved areas because they are confined by surrounding slabs. Tie bars shall be used on the centerline joints of entrance drives.
- Planned interruptions in paving shall have either a Doweled Construction Joint Type G or a Tongue and Groove Construction Joint Type C.
- If curbs are poured separate from pavement, a Tied Construction Joint Type E shall be used between the curb and the pavement.
- Where sides of different paving thickness come together, the subgrade under the thinner pavement shall be sloped from a distance of 3 ft or more to provide a gradual transition to the larger pavement thickness.
- Seal joints according to joint sealing details and specifications.
- Submit joint layout plan to Engineer for approval prior to concrete placement.
- See specifications 32 13 00 RIGID PAVING, 32 13 73 JOINT SEALANTS, and 32 16 13 CONCRETE CURBS AND GUTTERS for additional requirements.

SPACING BETWEEN JOINTS	
PAVEMENT THICKNESS, INCHES	MAXIMUM SPACING, FEET
4 AND 4.5	8
5 AND 5.5	10
6	12
OVER 6	15

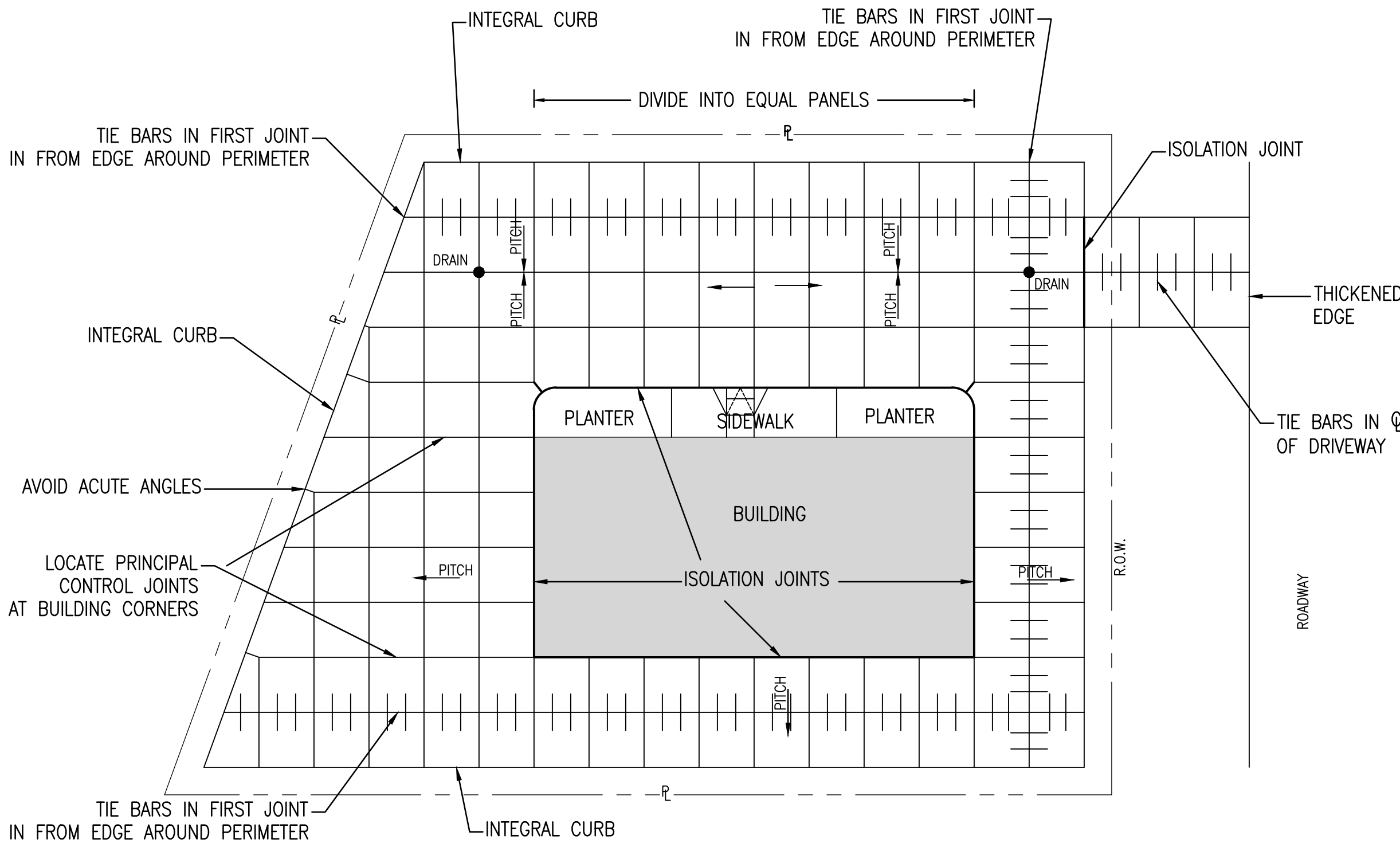
JOINT REQUIREMENTS



NOTE:
USE TYPE E TIED JOINT BETWEEN PAVEMENT AND GUTTER WHEN CURB AND GUTTER ARE POURED SEPARATELY FROM THE PAVING.

- A --- TRANSVERSE EXPANSION JOINT
B --- TIED LONGITUDINAL JOINT
C --- TONGUE & GROOVE CONSTRUCTION JOINT
D --- CONTRACTION JOINT @ 12" MAX SPACING
E --- TIED LONGITUDINAL JOINT
F --- DOWELED CONTRACTION JOINT
G --- DOWELED CONSTRUCTION JOINT

TYPICAL JOINT LAYOUT DETAILS FOR ROADWAYS



TYPICAL JOINT LAYOUT DETAILS FOR PARKING LOTS

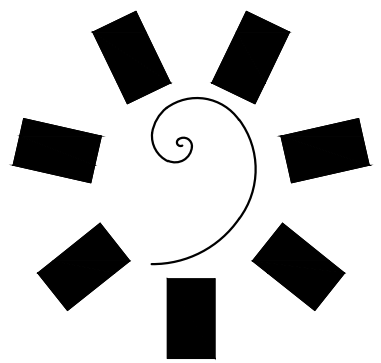
SEALING FILLER SHAPE NOTE

- THE SHAPE FACTOR COMBINED WITH THE JOINT CLEANLINESS IS THE CRITICAL COMBINATION NECESSARY TO GUARANTEE DESIRED BONDING AND FUNCTION OF SEALED JOINTS. THE JOINT SHAPE FACTOR IS DEFINED AS THE FINAL PRESSED SHAPE OF THE SILICONE MATERIAL.
- THE TOOLING OPERATION WILL FIRMLY PRESS THE FRESHLY APPLIED MATERIAL INTIMATELY AGAINST THE CUT SIDES OF THE RECESS AND THE BACKER ROD SURFACES. THE ROUNDED SHAPE ON TOP AND BOTTOM OF THE SILICONE ALLOWS THE SEALANT TO PROPERLY FLEX BUT MAINTAIN ADHERENCE TO THE PAVING.
- SELF LEVELING SEALANTS WILL BE INSTALLED TO BE FLUSH WITH THE PAVEMENT SURFACE OR BY MANUFACTURER'S RECOMMENDATION.

EXPANSION JOINT / ISOLATION JOINT TREATMENT TABLE			
JOINT WIDTH ①	SEALANT RECESS DEPTH ②	SILICONE SEALANT THICKNESS ③	BACKER AND DIAMETER ④
1/2"	3/8"	1/4"	5/8"
3/4"	3/8"	3/8"	7/8"
1"	3/8"	1/2"	1-1/4"
1-1/2"	1/2"	3/4"	2"
2"	1/2"	3/4"	2-1/2"

EXPANSION AND ISOLATION JOINT WIDTHS SHALL BE 3/4" UNLESS OTHERWISE SPECIFIED ON THE PLANS. TABLE VALUES AS SHOWN IN THIS TABLE SHALL BE USED IN THOSE SPECIFIED CASES.

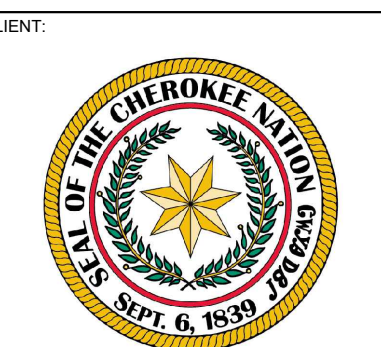
SEALING FILLER TREATMENT TABLE



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CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN

PROJECT PHASE:
SCHEMATIC DESIGN

REVISIONS	

JOB NUMBER: 21-08.21

DATE: 05-06-22

SHEET NUMBER:

C3-503

SHEET TITLE:

CONCRETE PAVING
JOINT DETAILS

PROFESSIONAL SEAL:

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TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

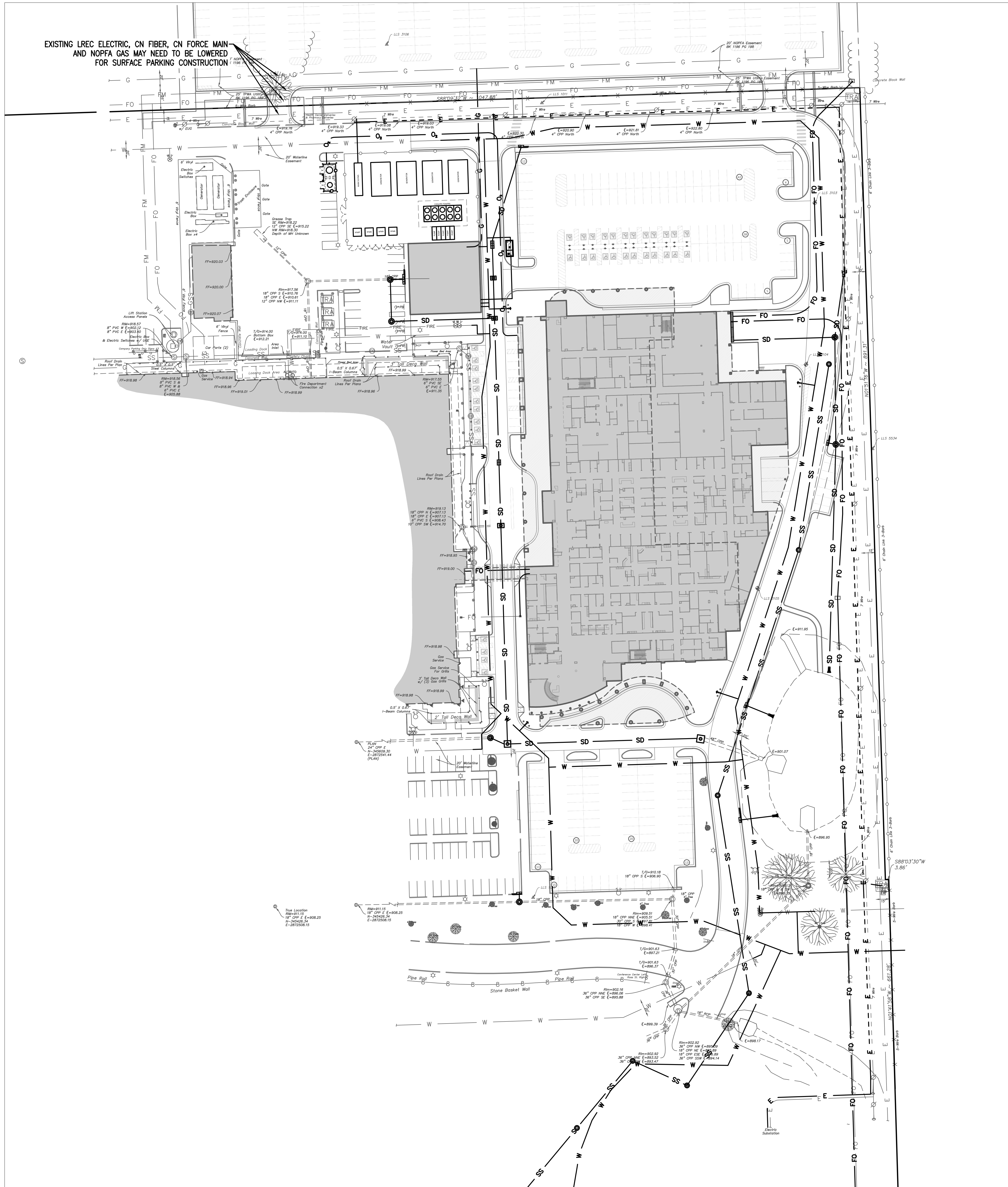
PROJECT PHASE:

SCHEMATIC DESIGN

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JOB NUMBER:	21-08.21
DATE:	05-06-22
SHEET NUMBER:	C4-101
SHEET TITLE:	

OVERALL UTILITY VIEW

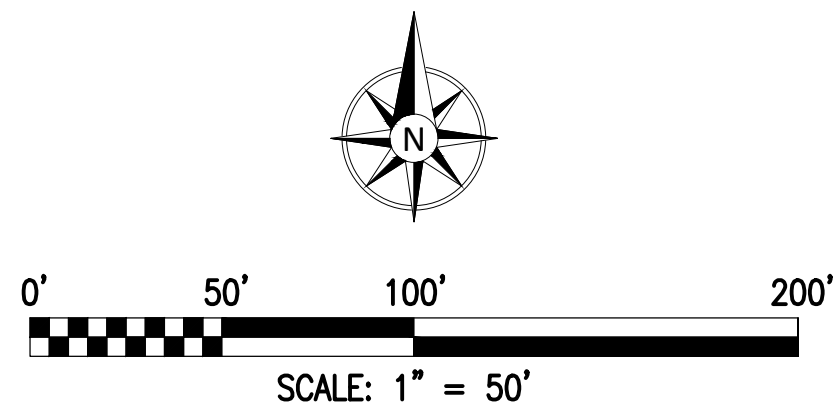


KEYNOTES

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UTILITY LEGEND

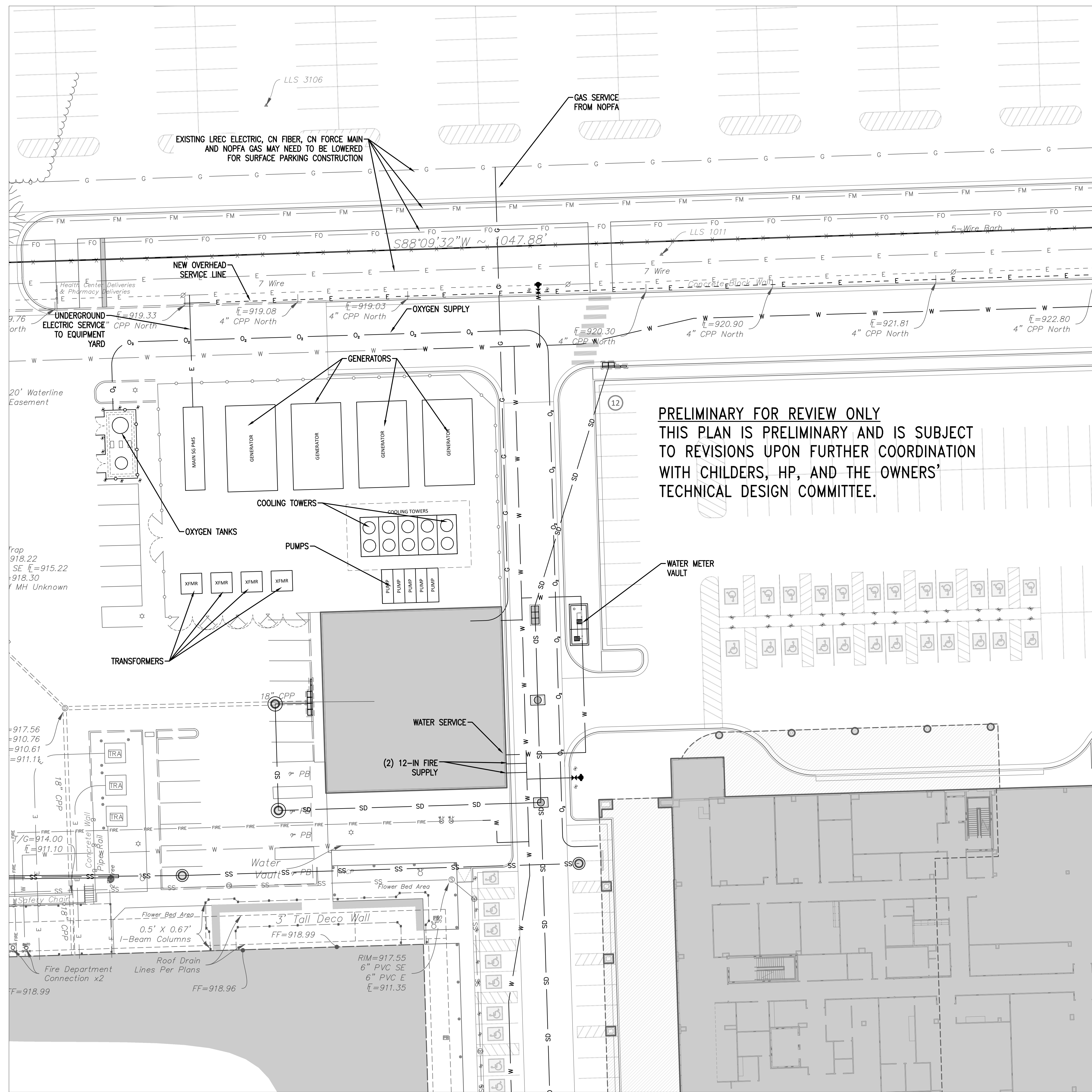
COMMUNICATIONS FIBER	- FO	- FO	- FO
ELECTRIC OVERHEAD	- E	- E	- E
ELECTRIC UNDERGROUND	- E	- E	- E
NATURAL GAS	- G	- G	- G
OXYGEN GAS	- O ₂	- O ₂	- O ₂
SEWER	- SS	- SS	- SS
STORM DRAIN	- SD	- SD	- SD
WATER	- W	- W	- W
SEWER	- SS	- SS	- SS



UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.



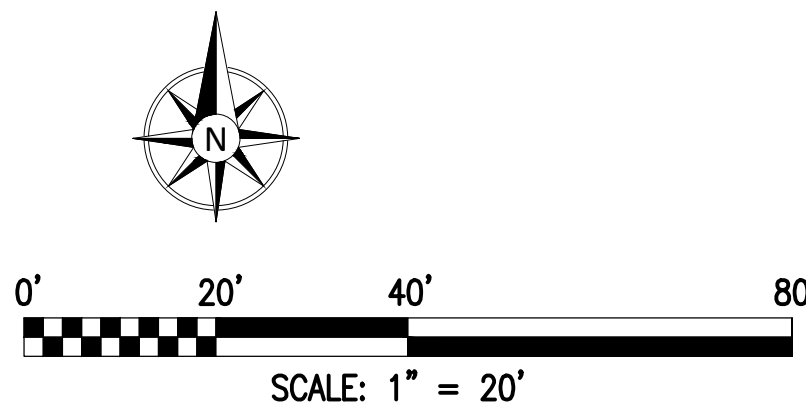
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TO REVISIONS UPON FURTHER COORDINATION
WITH CHILDERS, HP, AND THE OWNERS'
TECHNICAL DESIGN COMMITTEE.

UTILITY LEGEND			
COMMUNICATIONS FIBER	- FO	FO	FO
ELECTRIC OVERHEAD	- E	E	E
ELECTRIC UNDERGROUND	- E	E	E
NATURAL GAS	- G	G	G
OXYGEN GAS	- O ₂	O ₂	O ₂
SEWER	- SS	SS	SS
STORM DRAIN	- SD	SD	SD
WATER	- W	W	W
SEWER	- SS	SS	SS

UTILITY WARNING: THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

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A1

CHEROKEE NATION
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TAHLEQUAH, OKLAHOMA

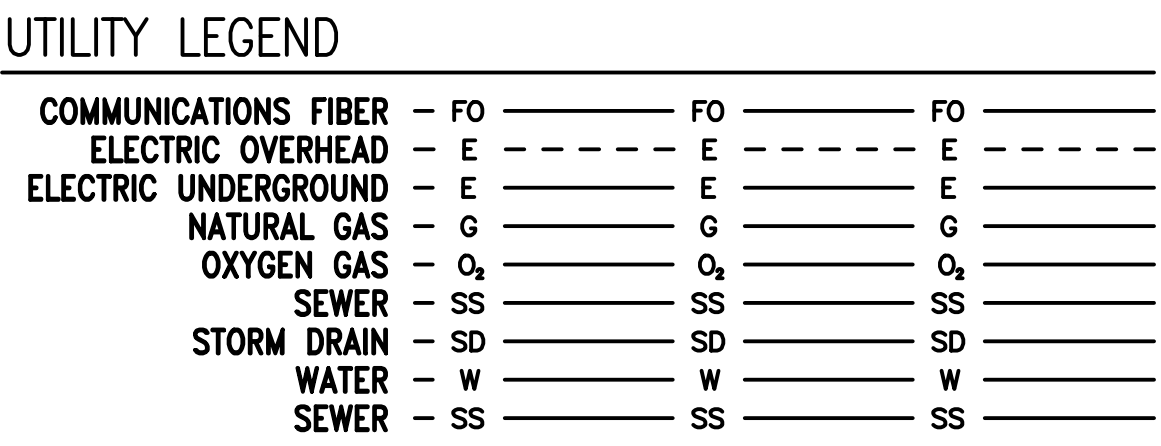
A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

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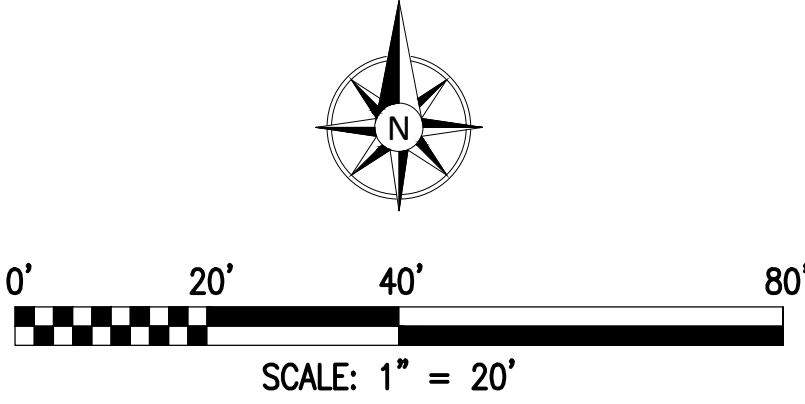
DATE:	05-06-22
SHEET NUMBER:	C4-104
SHEET TITLE:	B1 UTILITIES



UTILITY WARNING:

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UTILITY ELEVATIONS AND SIZES MAY BE FOUND MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES MAY BE DIFFERENT FROM THOSE SHOWN ON THE RECORD DRAWINGS. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.



B1

[illegible]

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A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

REVISIONS	

DATE: 21-08.21

05-06-22

SHEET NUMBER:

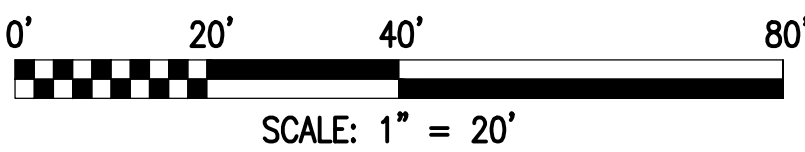
MEET TITLE:



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ELECTRIC OVERHEAD	E	E	E
ELECTRIC UNDERGROUND	E	E	E
NATURAL GAS	G	G	G
OXYGEN GAS	O ₂	O ₂	O ₂
SEWER	SS	SS	SS
STORM DRAIN	SD	SD	SD
WATER	W	W	W
SEWER	SS	SS	SS

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B2

KEYNOTES

[illegible]

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

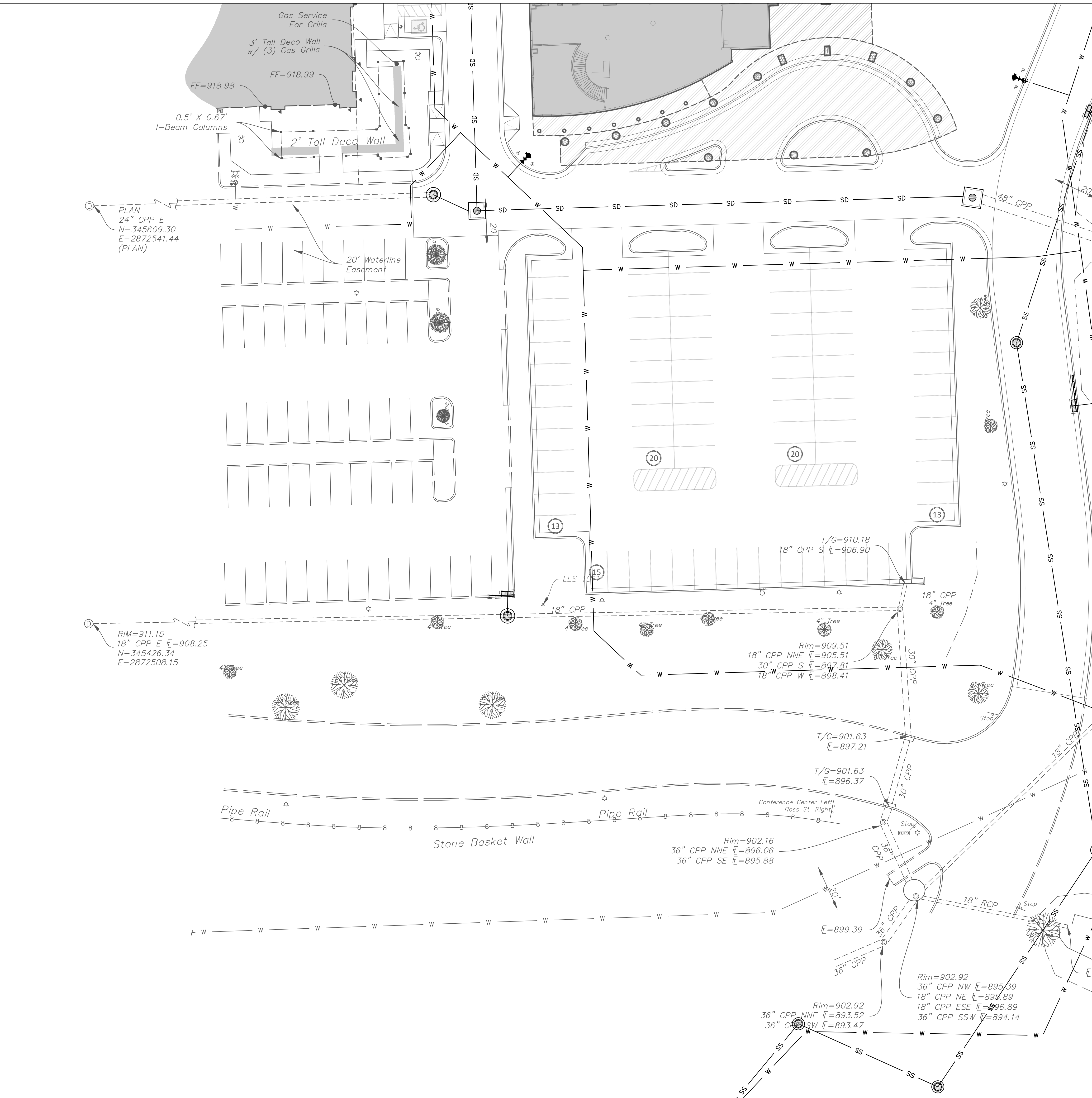
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6 NUMBER: 21-08.21

05-06-22

C4 106

C1 UTILITIES

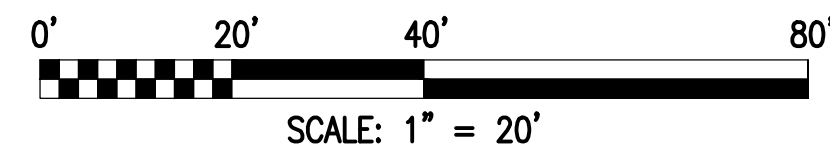
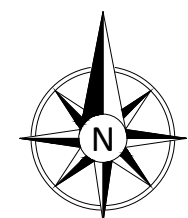


UTILITY LEGEND

COMMUNICATIONS FIBER	- FO	- FO	- FO
ELECTRIC OVERHEAD	- E	- E	- E
ELECTRIC UNDERGROUND	- E	- E	- E
NATURAL GAS	- G	- G	- G
OXYGEN GAS	- O ₂	- O ₂	- O ₂
SEWER	- SS	- SS	- SS
STORM DRAIN	- SD	- SD	- SD
WATER	- W	- W	- W
SEWER	- SS	- SS	- SS

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C1

KEYNOTES

[illegible]

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

Activity Plan:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

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6 NUMBER: 21-08.21

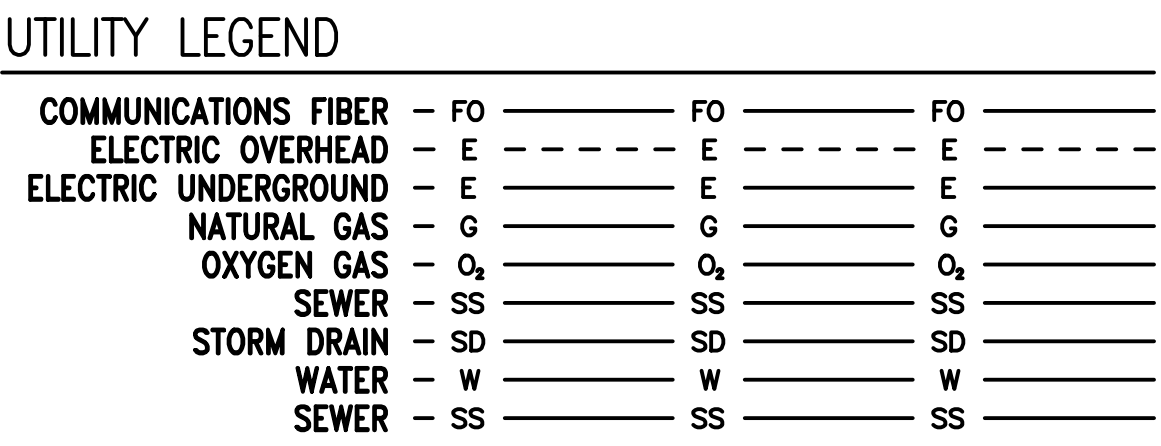
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SHEET NUMBER:

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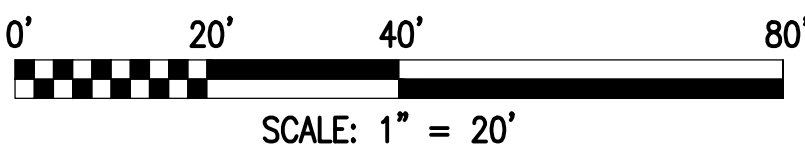
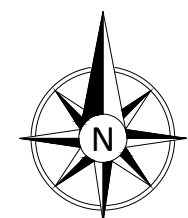
MEET TITLE:

C2 UTILITIES



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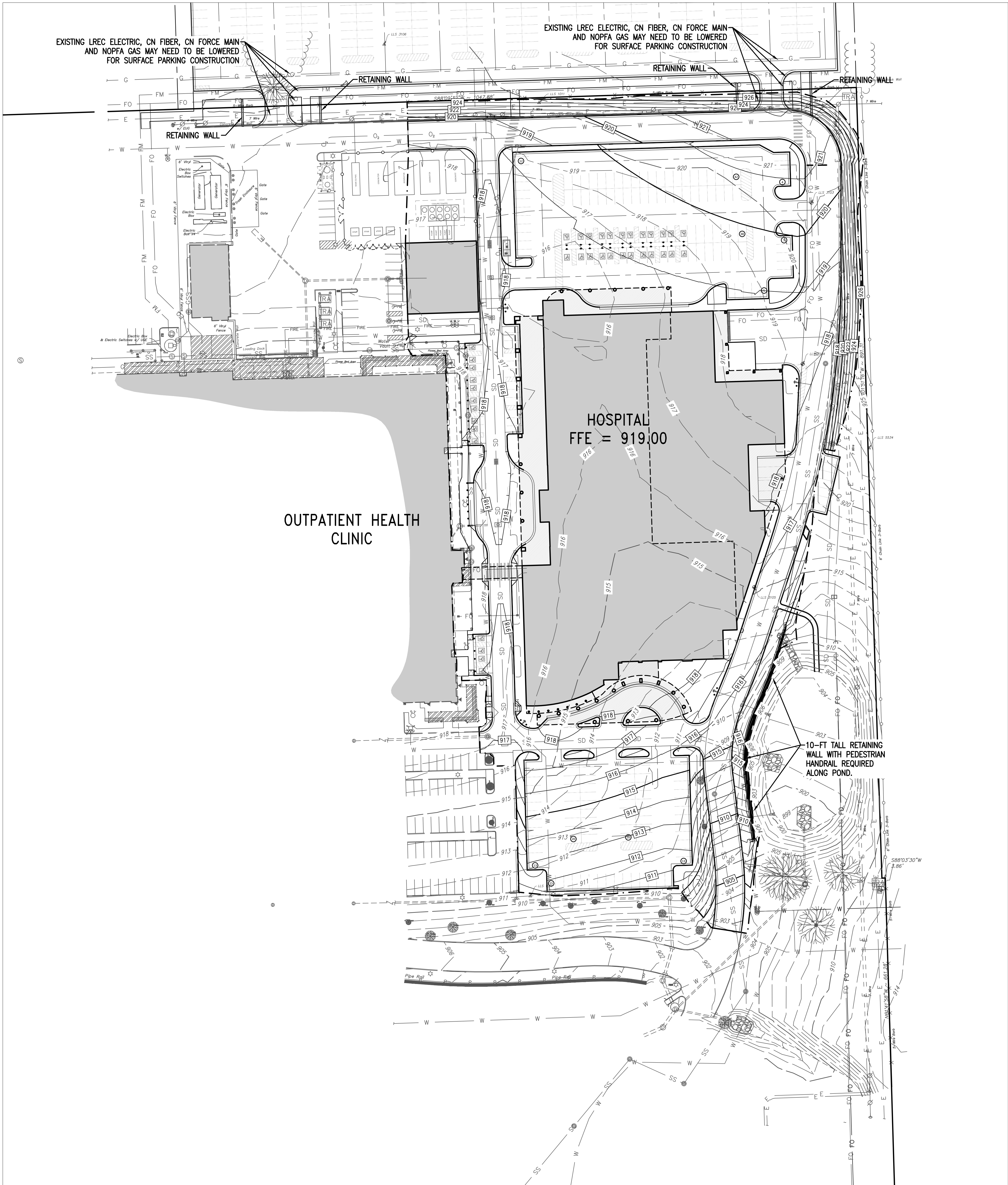
C2

KEYNOTES

[illegible]

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4/29/2022 A:\2021\15123.21\03_DSGN01_DWG\050_CIVIL\05-GRAD-5123.DWG



EARTHWORK CALCULATION NOTES

1. THE EARTHWORK VOLUMES PROVIDED ARE CALCULATED BY COMPARING THE FINISHED GRADE SURFACE MODEL WITH THE EXISTING GRADE SURFACE MODEL.
2. NO ADJUSTMENTS MADE FOR COMPACTION OR EXPANSION OF MATERIAL.
3. NO ADJUSTMENTS ARE MADE FOR BUILDING PAD(S), STRUCTURES, OR PAVEMENTS.
4. NO ADJUSTMENTS ARE MADE FOR UTILITY TRENCH SPOILS.

CUT VOLUME = 1,765 CY
FILL VOLUME = 24,855 CY

NET VOLUME = 23,090 CY CUT / FILL

ON-SITE PAVING ESTIMATES

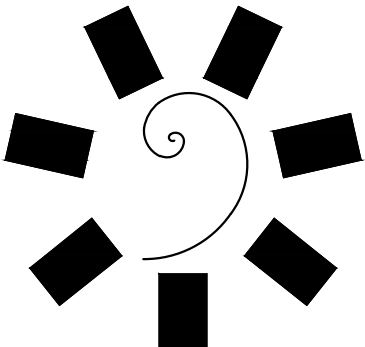
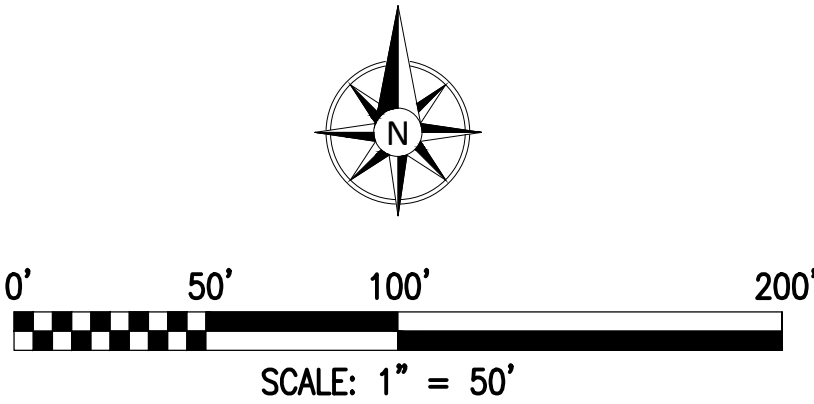
3,695 SY 4-IN THK SIDEWALK
9,149 SY 5-IN THK CONCRETE
3,000 SY 6-IN THK CONCRETE
5,353 SY 7-IN THK CONCRETE
10,710 SY BUILDING PAD
711 SY CEP PAD
5,969 LF 6-IN BARRIER CURB W/2-FT GUTTER / 6-IN THK

HARDSCAPE PATTERNS

	CONCRETE SIDEWALKS
	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
	SODDING / SEEDING / VEGETATIVE COVER

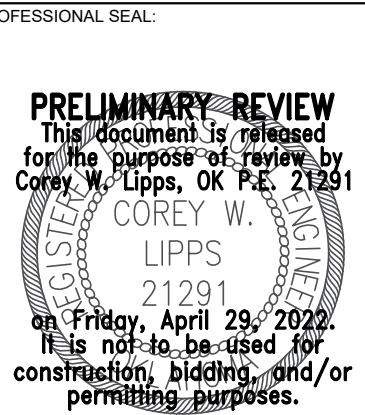
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CONSULTANT LOGO

Parkhill

14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9800
www.parkhill.com
Oklahoma CA #1710, Expires 6/30/2022

CLIENT:



CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

REVISIONS

NO.	DESCRIPTION	DATE

JOB NUMBER: 21-08.21

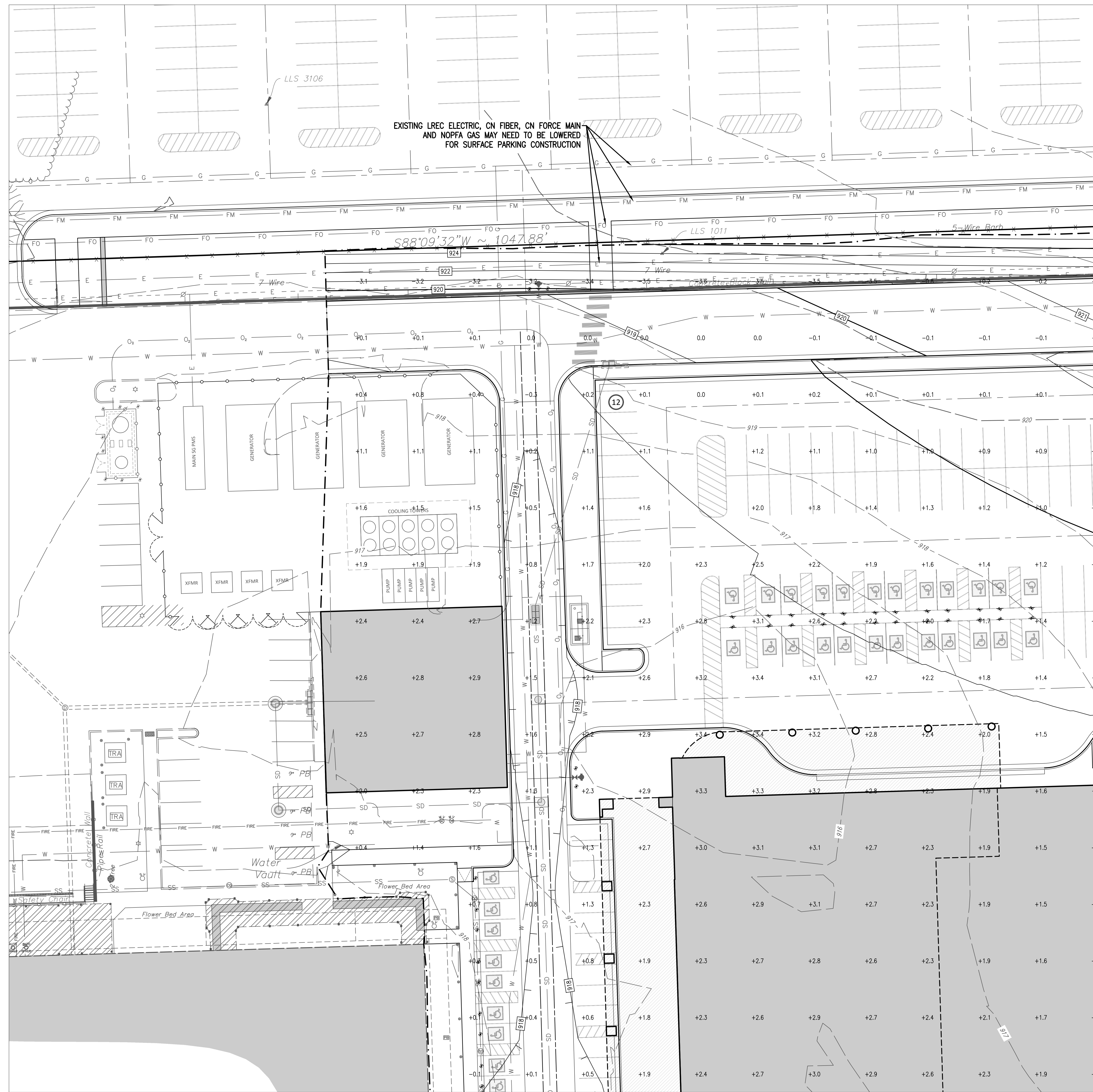
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SHEET NUMBER:

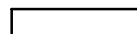


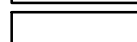
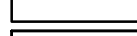

C5-101

SHEET TITLE:

OVERALL GRADING VIEW

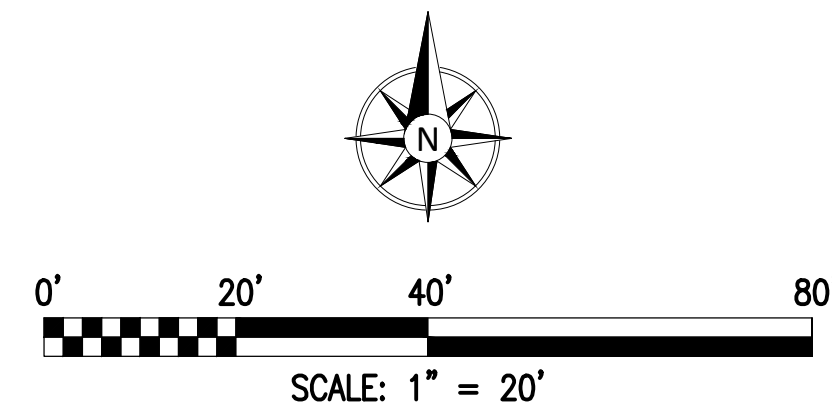
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HARDSCAPE PATTERNS

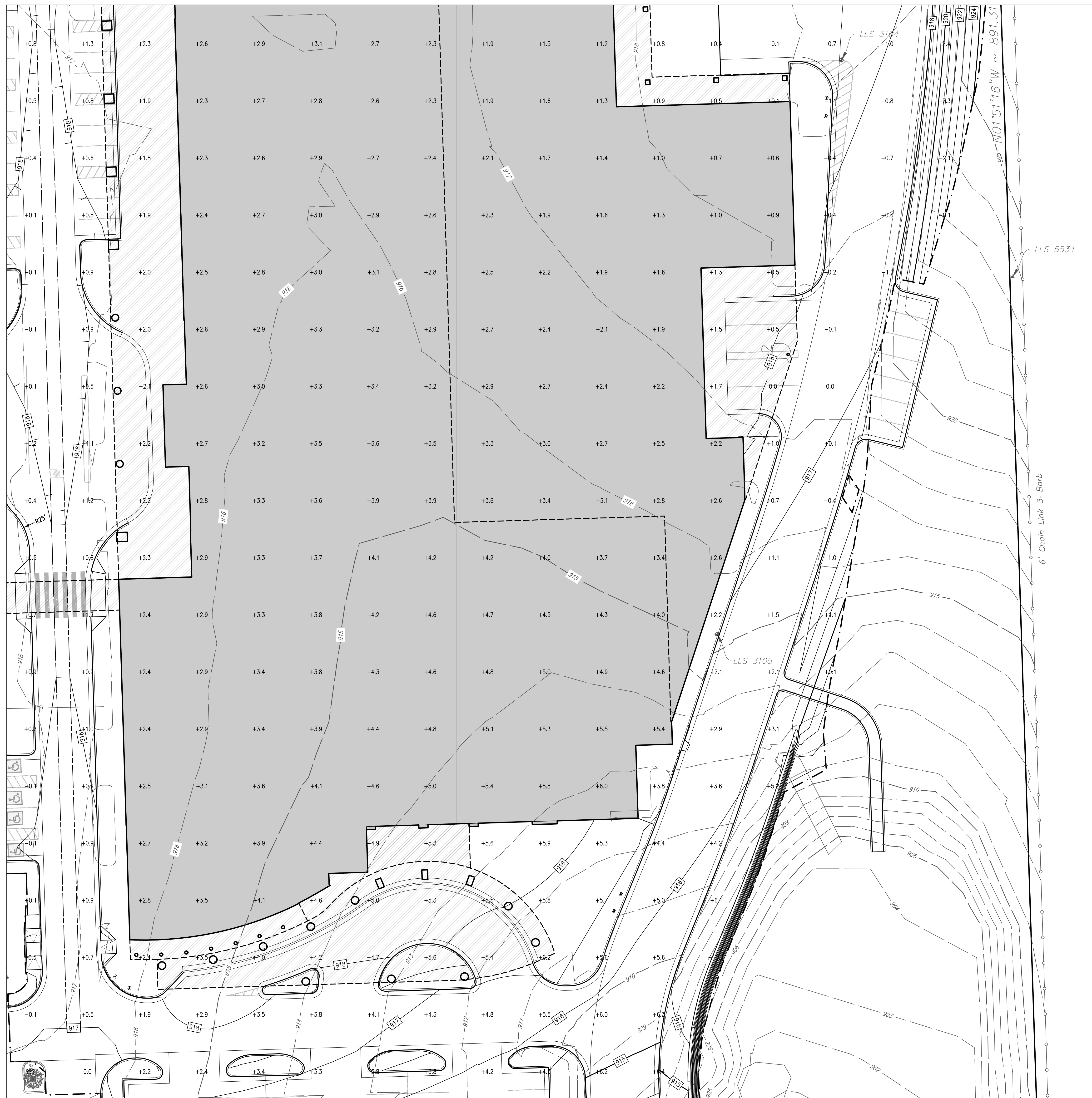
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	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
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A1

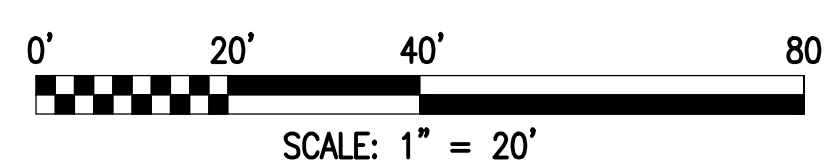
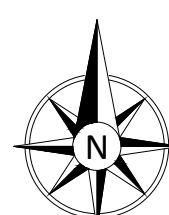


HARDSCAPE PATTERNS

	CONCRETE SIDEWALKS
	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
	REINFORCED HEAVY DUTY CONCRETE PAVING
	SODDING / SEEDING / VEGETATIVE COVER

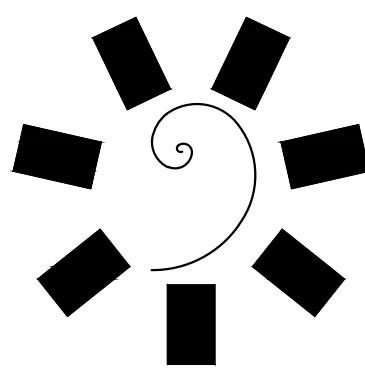
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B2

KEYNOTES

[illegible]

**James R. Childers
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PROFESSIONAL SEAL:

PRELIMINARY REVIEW
This document is released
for the purpose of review by
Corey W. Lipps, OK P.E. 21291

**COREY W.
LIPPS**
21291

On Friday, April 29, 2022,
it is not to be used for
construction, bidding, and/or
permitting purposes.

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Parkhill
14101 Wireless Way, Suite 350
Oklahoma City, OK 73134
405-832-9900
www.parkhill.com
Oklahoma CA #7110, Expires 6/30/2022

CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHLEQUAH, OKLAHOMA

KEY PLAN:

A1	A2
B1	B2
C1	C2

PROJECT PHASE:

SCHEMATIC DESIGN

[illegible]

JOB NUMBER:	21-08.21
DATE:	

SHEET NUMBER:

C5-105

SHEET TITLE:

B2 GRADING PLAN



PROFESSIONAL SEAL

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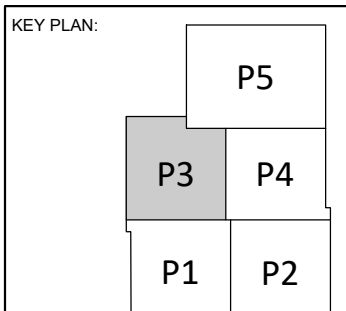
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CLIENT



CHEROKEE NATION
W.W. HASTINGS REPLACEMENT HOSPITAL
TAHEQUAH, OKLAHOMA

KEY PLAN:



PROJECT PHASE

SCHEMATIC DESIGN

[illegible]

JOB NUMBER: 21-08 21

DATE: 05-06-22







SHEET NUMBER:

C5-110

SHEET TITLE

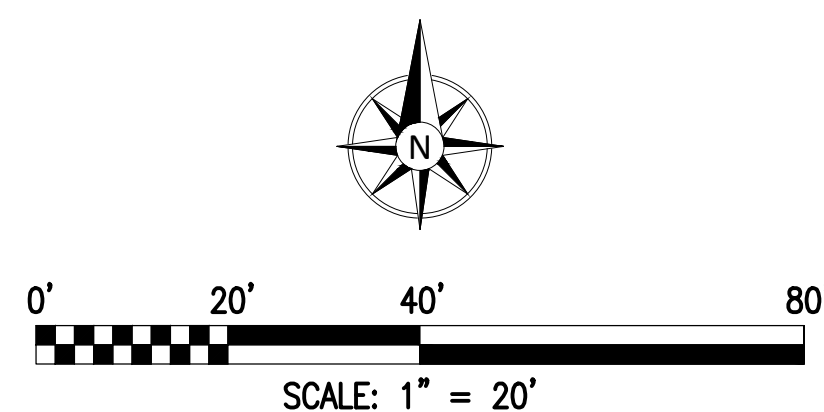
P3 GRADING PLAN



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	LIGHT DUTY CONCRETE PAVING
	MEDIUM DUTY CONCRETE PAVING
	HEAVY DUTY CONCRETE PAVING
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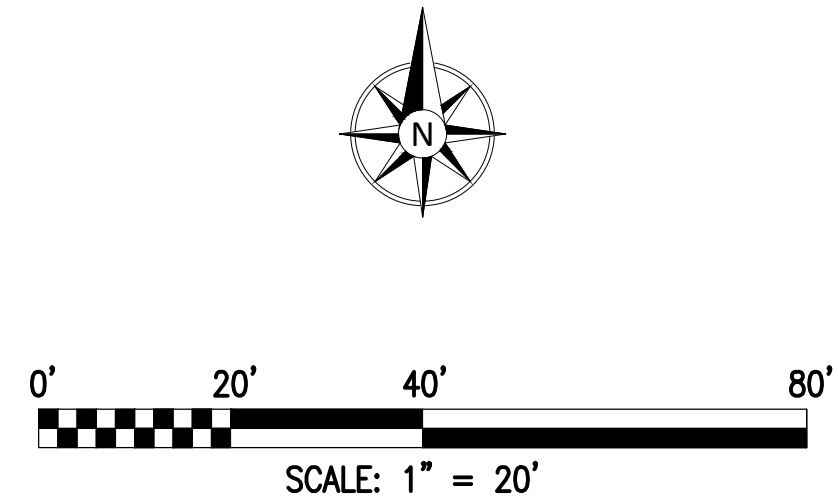
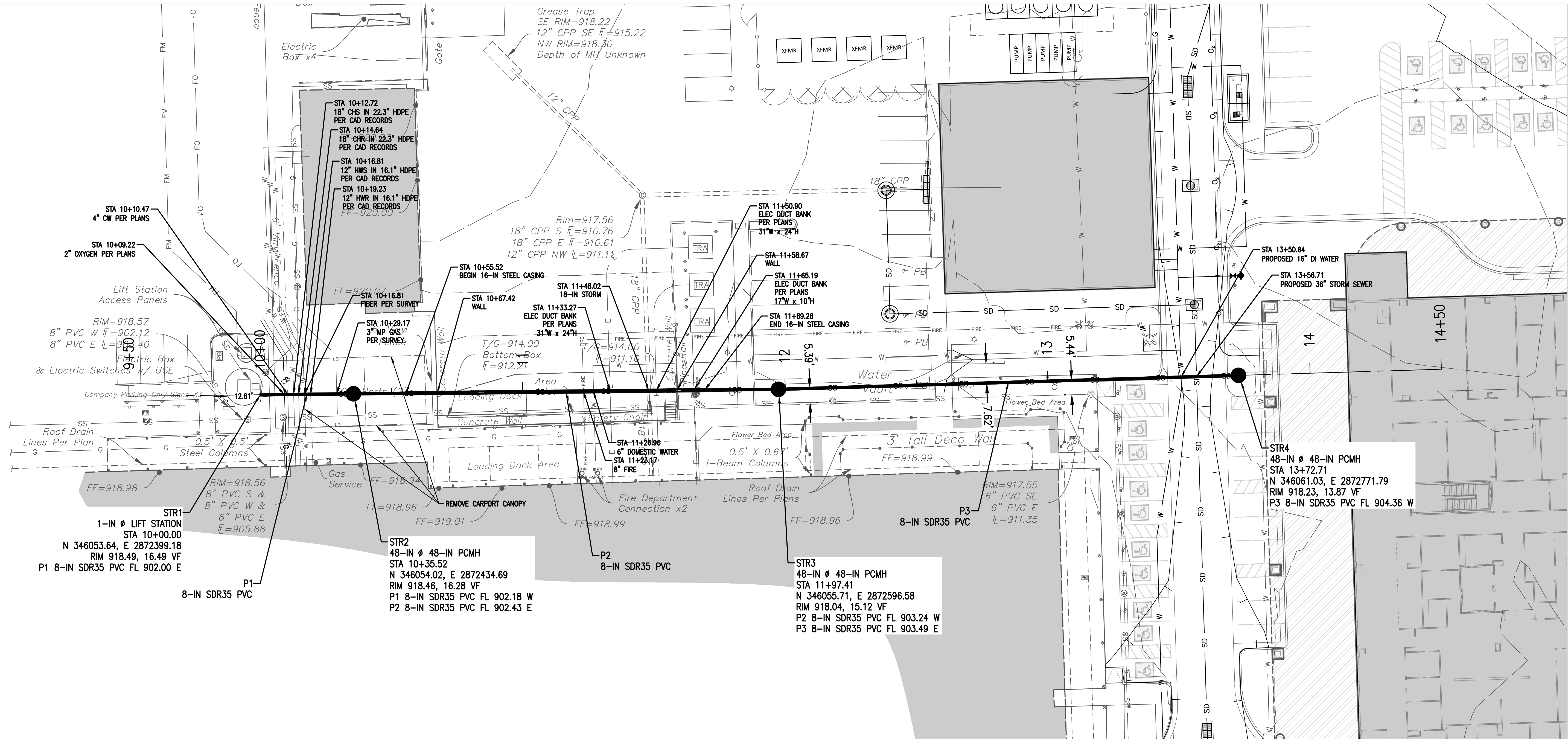
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KEYNOTES

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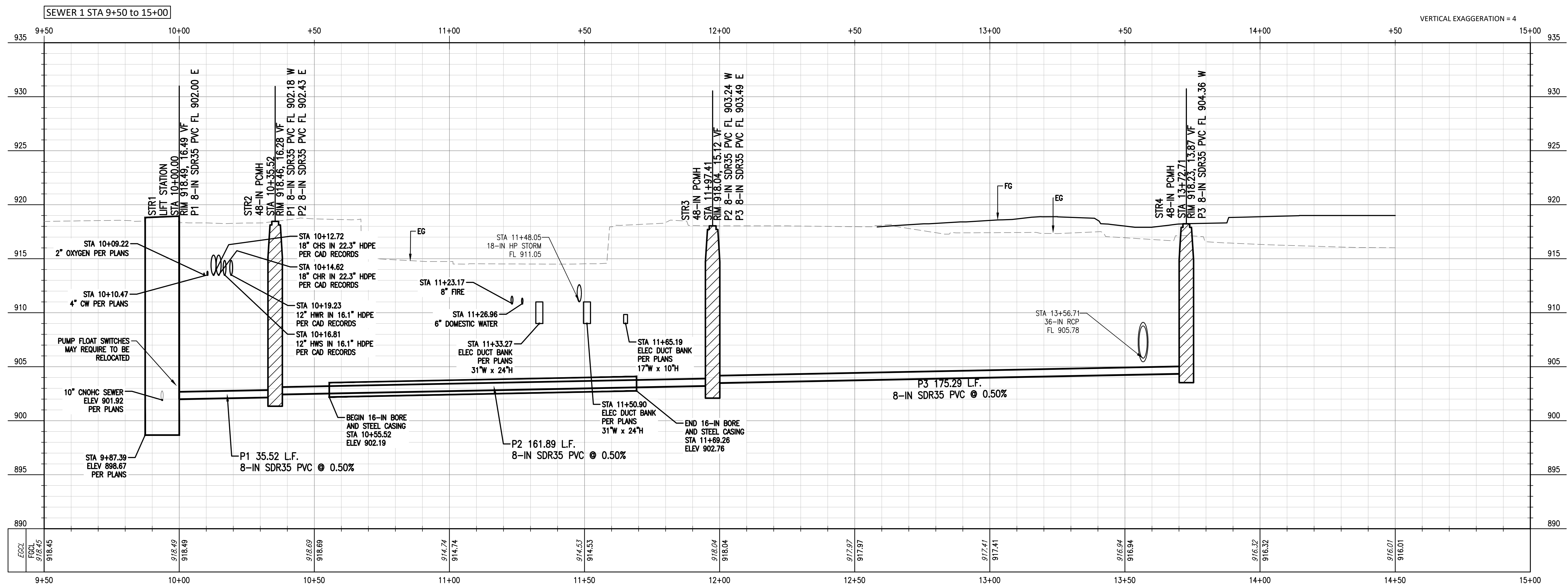
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5/3/2022 A:\2021\512321\03_DSGN\01_DWG\050_CIVIL\08-SEWR-5123.DWG



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