CHEROKEE NATION REPLACEMENT HOSPITAL

BID PACKAGE 01

(NORTH PARKING & ACCESS)

VOLUME 01 OF 11 (CIVIL)



CIVIL ENGINEERING



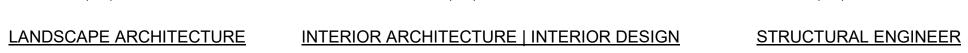
GEOTECHNICAL ENGINEERING





















HELIPAD DESIGN

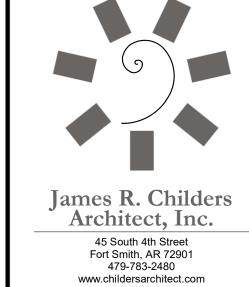


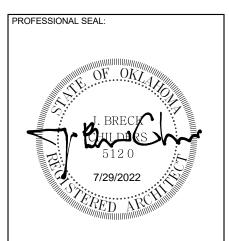


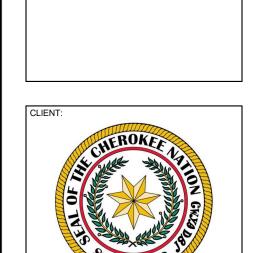


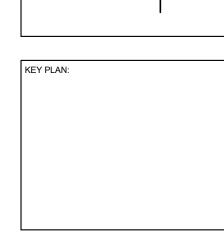


CONSTRUCTION MANAGER









BID PACKAGE 01 (NORTH PARKING & ACCESS)

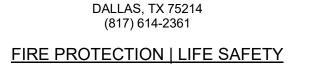
			REVISIONS
	#	DATE	DESCRIPTION

07-29-2022

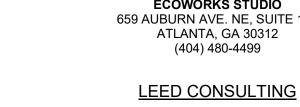
21-08.21

COVER SHEET





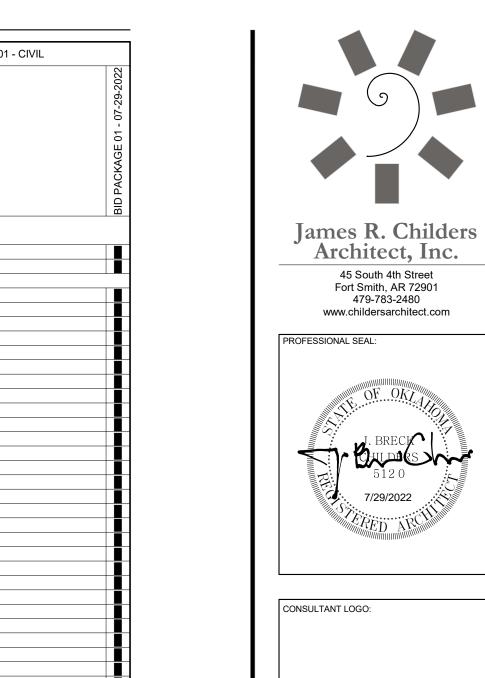


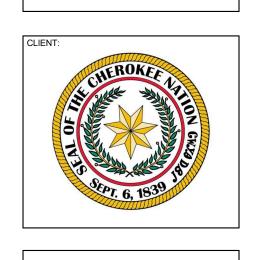




OWNERS REPRESENTATIVE

INDEX OF DRAWINGS - VOLUME 01 - CIVIL
NUMBER
GENERAL VOL 01 COVER SHEET G0.01 DRAWING INDEX
CO-102 GENERAL CIVIL NOTES - BP1 C1-103 EXISTING CONDITIONS C1-104 EXISTING CONDITIONS C1-105 EXISTING CONDITIONS
C2-106 NP DEMOLITION OVERVIEW C2-109 NP 1 DEMOLITION PLAN C2-110 NP2 DEMOLITION PLAN C2-111 NP3 DEMOLITION PLAN C2-112 NP4 DEMOLITION PLAN C2-113 NP5 DEMOLITION PLAN C2-702 NP EROSION CONTROL PLAN C2-750 EROSION CONTROL DETAILS
C3-108 NP SITE PLAN OVERVIEW C3-109 NP1 SITE PLAN C3-110 NP2 SITE PLAN C3-111 NP3 SITE PLAN C3-112 NP4 STE PLAN C3-113 NP5 SITE PLAN C3-501 SITE DETAILS C3-502 SITE DETAILS C3-503 CONCRETE PAVING JOINT DETAILS C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN
C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN C5-115 NP2 GRADING PLAN C5-116 NP3 GRADING PLAN C5-117 NP4 GRADING PLAN C5-118 NP5 GRADING PLAN C5-210 NP COORDINATES AND ELEVATIONS TABLE C6-201 NP STORM PLAN & PROFILE
C6-202 NP STORM PLAN & PROFILE 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 C6-805 STORM DRAIN DETAILS C6-802 NP EXISTING HYDROLOGY C6-803 NP DEVELOPMENT HYDROLOGY
C6-802 NP EXISTING HYDROLOGY C6-803 NP DEVELOPMENT HYDROLOGY C8-201 FORCE MAIN PLAN & PROFILE C8-501 FORCE MAIN DETAILS C9-201 DOWNING DRIVEWAY PLAN AND PROFILE C9-501 DOWNING DRIVEWAY DETAILS
Grand total: 43 INDEX OF DRAWINGS - VOLUME 07 - ELECTRICAL
H
SHEET NAME
GENERAL VOL 07 COVER SHEET G0.01 DRAWING INDEX ELECTRICAL ENL-00 ELECTRICAL LEGEND ENL-01 ELECTRICAL SITE PLAN - NORTH LOT
Grand total: 4 INDEX OF DRAWINGS - VOLUME 09 - LV/IT/SECURITY/DAS
NUMBER
SHEET NAME GENERAL VOL 09 COVER SHEET G0.01 DRAWING INDEX
SECURITY TNS1.02 NETWORK SITE PLAN - NORTH PARKING & ACCESS Grand total: 3





CHEROKEE NATION
REPLACEMENT HOSPITAL

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING & ACCESS)

		REVISIONS
#	DATE	DESCRIPTION

21-08.21 07-29-2022

G0.01

DRAWING INDEX

CHEROKEE NATION - W.W. HASTINGS REPLACEMENT HOSPITAL

BID PACKAGE 1 - NORTH PARKING AND ACCESS

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 BID PACKAGE 1 -NORTH PARKING AND ACCESS of the CHEROKEE NATION - W.W. HASTINGS REPLACEMENT

HOSPITAL as shown on the Drawings and herein specified in accordance with the

1. 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 2. 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. 3. CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER 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 as shown on the Drawings.

- 1. Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of PARKHILL, including electronic media editions, shall not be reused on extensions of the Project or any other project without written consent of OWNER and PARKHILL and specific written verification or adaptation by PARKHILL.
- 2. Survey information shown on the drawings were provided by Lemke Land Surveying, 3226 Bart Conner Drive, Norman, OK, 73072 Phone (405) 366-8541, CA #2054...

APPLICABLE CODES AND SPECIFICATIONS

1. 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

- 1. CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER 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.
- 2. 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

- 1. 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.
- 2. 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 of supply to proper operating condition.
- 3. OWNER will coordinate and pay all costs for temporary electrical power and temporary
- 4. 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
- 5. 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

temporary water service equipment and piping shall be removed.

- 6. 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 bailing equipment. 7. Remove snow and ice as necessary for the protection and prosecution of the work, and

PRODUCT REQUIREMENTS

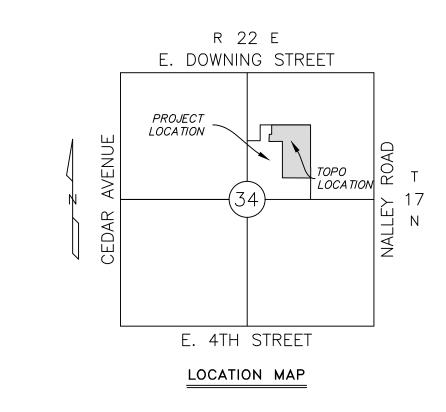
protect the work against weather damage.

- 1. Materials, products, and equipment shall be properly containerized, packaged, boxed, and protected to prevent damage during transportation and handling.
- 2. Provide suitable temporary weather tight 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 CONSTRUCTION MANAGER. Store and protect materials delivered at the site from damage. Do not use damaged material on the work.
- 3. Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned as directed by the respective manufacturers, unless otherwise specified.
- 4. References to approved equal or similar terms mean that approval of the ENGINEER is
- 5. Whenever the Contract Documents require that a product be in accordance with Federal specification, ASTM designation, ANSI specification, AWWA specification, or other association standard, the CONSTRUCTION MANAGER 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

- 1. CONSTRUCTION MANAGER shall be responsible for properly 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
- 2. OWNER has or will perform a survey of the site, stake the property limits, and provide a reference benchmark elevation. CONSTRUCTION MANAGER 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 CONSTRUCTION MANAGER shall be done at his expense.
- 3. Existing survey points other than those specifically mentioned herein shall not be considered as acceptable control points unless approved by the ENGINEER. If approval

LEGAL DESCRIPTION AND LOCATION MAP



is secured, CONSTRUCTION MANAGER 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

- 1. 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 ODEQ/EPA. A NOI will be submitted to both EPA and ODEQ. This project is located on both Trust land and non-trust land, and applications will be submitted to both EPA and ODEQ. OWNER will apply for these permits and pay permit fees.
- 2. A copy of the erosion control site plan must be on site at all times and made available to the inspector upon request.
- 3. The CONSTRUCTION MANAGER shall be responsible for the repair or replacement of all erosion control devices damaged due to construction.
- 4. A Storm water Pollution Prevention Plan (SWPPP) has been prepared for the WORK and a Notice of Intent (NOI) has been submitted by OWNER. CONSTRUCTION MANAGER 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
- 5. 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.
- 6. Inspect 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.
- 7. 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. 8. If sediment escapes the construction site, off-site accumulations of sediment shall be removed at a frequency sufficient to minimize offsite impacts (e.g., fugitive sediment in street could be washed into storm sewers by the next rain and/or pose a safety
- 9. Sediment shall be removed from sediment traps or sedimentation ponds when the design capacity has been reduced by 50%.
- 10.Litter, 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

hazard to users of public streets).

- 1. CONSTRUCTION MANAGER shall contact OKIE (1-800-522-6543) prior to construction for locating existing utilities.
- 2. 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.
- 3. Prior to construction, CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER shall also coordinate the construction activities with the utility companies to ensure compliance with the project schedule.
- 4. 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, CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER shall be liable for damage to any utilities resulting from the CONSTRUCTION MANAGER'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
- 5. 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 Tahlequah Public Works Authority.

PROTECTION AND MAINTENANCE

- 1. 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.
- 2. 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, CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER 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.
- 3. 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 CONSTRUCTION MANAGER 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.
- 4. 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

- 5. Shore up and protect any building or other structure which may be endangered during
 - 6. Immediately remove all surface or seepage water from sewers, drains, ditches, and by pumping, bailing, or draining. CONSTRUCTION MANAGER shall have available at all times sufficient equipment in proper working order for doing the work herein required. to not create unsanitary conditions, nor to cause injury to persons or property or
 - outlets and connections until permanent facilities have been restored. Provide and
 - 8. 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. CONSTRUCTION MANAGER shall be responsible for providing and maintaining adequate erosion protection during construction and following construction until such
 - 9. The premises and the job site shall be maintained in a reasonably neat and orderly
 - made, the CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER 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,
 - 11. All terraces, levees, and watercourses shall be restored to former condition to the satisfaction of OWNER so that they shall function as originally intended. 12. Fences disturbed by construction shall be restored to original condition and to the
 - satisfaction of OWNER.
 - 14. When and where any damage or injury is done to public or private property on the such damage was done by repairing, rebuilding or otherwise restoring as may be

1. CONSTRUCTION MANAGER 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. CONSTRUCTION MANAGER is

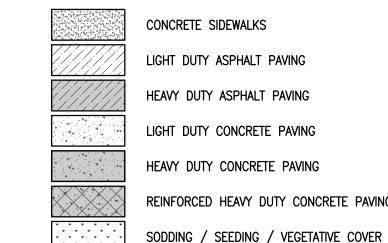
- 1. A Work Zone Permit must be obtained from the CITY at least two (2) working days prior to the start of work and/or placing or removing any barricades or modifying existing traffic control devices.
- 2. CONSTRUCTION MANAGER shall be responsible for erecting and maintaining barricades and other traffic warning devices as necessary around the perimeter of construction
- Any temporary street closure shall be coordinated with and approved by OWNER. CONSTRUCTION MANAGER shall establish all detour routes while streets are closed during construction. CONSTRUCTION MANAGER shall notify Fire, Police, and EMSA headquarters when any street is temporarily closed.
- 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 devices affected by the work shall be reset or replaced according to specifications. Coordinate the work with the traffic department.

1. CONSTRUCTION MANAGER 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 CONSTRUCTION MANAGER's expense. Defective materials shall be removed immediately from the site of
- not in conformity with grades shown on the plans or as given, work done with out measured an paid for and may be ordered to be removed at the CONSTRUCTION
- 3. Upon failure of the CONSTRUCTION MANAGER to satisfactorily repair or to remove and

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

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.

- the work and restore all buildings, culverts, fences, walls, or other properties disturbed during the work to a condition equal to that existing before operation. CONSTRUCTION MANAGER 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
- other sources that may accumulate water during the excavation and construction work All water removed from excavations shall be disposed of in an approved manner, so as 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, CONSTRUCTION MANAGER shall provide and maintain temporary maintain any pumps, diversions, piping, containers, and other facilities required for this
- time as proper vegetation is reestablished.
- 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. 10. Upon completion of the work and before final acceptance and final payment shall be
- and at the CONSTRUCTION MANAGER'S sole cost.
- 13. Public and private streets, drives, and parking lots shall be restored to their original
- part of the CONSTRUCTION MANAGER, it shall restore or have restored at its own cost and expense such property to a condition equal (or improved) to that existing before 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.

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. CONSTRUCTION MANAGER 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 familiarize its employees involved in excavation and trenching with the provisions in OSHA Pamphlet Number 2226, Excavating and Trenching Operations.

- 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
- 4. CONSTRUCTION MANAGER is responsible for the prompt replacement and/or repair of all

- 2. Work done without lines and grades having been given, work done beyond the lines or proper inspection, or any extra or unclassified work done without written authority and prior written agreement as to prices, will be done at the CONSTRUCTION MANAGER's risk and will be considered unauthorized, and at the option of the ENGINEER, may not be
- replace, if so directed, and rejected, unauthorized, or condemned work or materials

SYMBOL LEGEND

- AC AIR CONDITIONER UNIT FIRE HYDRANT
- G GAS METER ර් GAS VALVE
- 🖺 GAS VENT
- TRA GROUND TRANSFORMER GUARD POST
- □ LIGHT POLE
- (D) STORM DRAIN MANHOLE
- (S) SANITARY SEWER MANHOLE
- PROPERTY CORNER FOUND O PROPERTY CORNER SET
- (CO) SANITARY SEWER CLEANOUT
- COMMERCIAL SIGN
- SIGN
- Ö SPRINKLER HEAD
- び SPRINKLER VALVE

TELEPHONE RISER

- 門 TRAFFIC/ELECTRIC PULL BOX
- WATER METER WATER VALVE BOX
- TOP OF CURB SPOT ELEVATION GUTTER SPOT ELEVATION
- SPOT ELEVATION

immediately after receiving notice from the ENGINEER, the ENGINEER shall, after giving written notice to the CONSTRUCTION MANAGER. 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 CONSTRUCTION MANAGER. 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

XX		BARBED WIRE FENCE
		CHAINLINK FENCE
8 8	8 8 8	PIPERAIL FENCE
		STOCKADE FENCE
*	* * *	SECURITY FENCE
— Е —	— Е —	ELECTRIC UNDERGROUND
— Е	E	OVERHEAD ELECTRIC
— G —	G	GAS LINE
— ss —	ss	SANITARY SEWER
====	=====	STORM DRAIN PIPE (SURVEYED)
— SD —	—— SD ———	STORM DRAIN CENTERLINE
	w	
	NW	
=	=	CURB AND GUTTER
>>	>> >> _	SURFACE DRAINAGE FLOWLINE
— FO —	—— FO ———	FIBER OPTIC
— т	T	TELEPHONE (AERIAL)
— т —	— т ——	TELEPHONE (BURIED)
TV	TV	—— TELEVISION (AERIAL)
— TV —	TV	TELEVISION (BURIED)
		CENTERLINE
		—— EASEMENTS
		PROPERTY LINE
		RIGHT OF WAY
		EXISTING BUILDINGS
		BUILDING SETBACK
	———————————————————————————————————————	EX 1 FT CONTOUR
	——————————————————————————————————————	EX 5 FT CONTOUR
	1232	FG 1 FT CONTOUR
	1235	FG 5 FT CONTOUR
		PROJECT ROUNDARY

FINISHED FLOOR

FINISHED GRADE

FACE OF CONCRETE

GENERAL CONTRACTOR

FI OWI INF

FOOTING

GAUGE

GUTTER

FOOT/FEET

FIELD VERIFY

GALVANIZED

HEAVY DUTY

HORIZONTAL

INFORMATION

MANHOLE

MAXIMUM MECHANICAL

MINIMUM MISCELLANEOUS

INSIDE DIAMETER

INTERNATIONAL FUEL GAS CODE

INTERNATIONAL PLUMBING CODE

FINISHED GRADE CENTER LINE

7100111			
0	AT		
AFF	ABOVE FINISHED FLOOR	N/A	NOT APPLICABLE
AGRD	ADJACENT GRADE	.,,	TO THE EIGHBEE
AHJ	AUTHORITY HAVING JURISDICTION		
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
ARCH	ARCHITECTURAL		
ASS'Y	ASSEMBLY	MTCH	MATCH
		MEP	MECHANICAL / ELECTRICAL
BFF	BELOW FINISHED FLOOR		/ PLUMBING
BLDG	BUILDING		/ I COMBINO
		N	NORTH
CIP	CAST IN PLACE	Ň	NORTHING
CL	CENTERLINE	NO.	NUMBER
CM	CONSTRUCTION MANAGER		
CNTR	CENTER	OC	ON CENTER
CONC	CONCRETE	ODEQ	OKLAHOMA DEPARTMENT OF
CONST	CONSTRUCT		ENVIRONMENTAL QUALITY
CONT	CONTINUOUS	ODOT	OKLAHOMA DEPARTMENT OF
CONTR	CONTRACTOR		TRANSPORTATION
COORD	COORDINATE	OWRB	OKLAHOMA WATER RESOURCES
DIA	DIAMETER		BOARD
DIA	DIAMETER	OZ	OUNCE
DS	DOWN SPOUT		
DTL DWG(G)	DETAIL	PC	PORTLAND CEMENT
DWG(S)	DRAWINGS	PC	PRE-CAST
_	FACT	PC	POINT OF CURVATURE
E	EAST EASTING	PLBG	PLUMBING
E EG	EXISTING EXISTING GRADE	POC	POINT OF CONNECTION
EGCL	EXISTING GRADE EXISTING GRADE CENTER LINE	PRC	POINT OF REVERSE CURVATURE
ELEC	ELECTRICAL	PT PVI	POINT OF MEDICAL INTERSECTION
ELEV	ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
EJ	EXPANSION JOINT	QTY	QUANTITY
EQ	EQUAL	QII	QUANTIT
ETR	EXISTING TO REMAIN	R	RADIUS
EX	EXISTING	RE:	REFERENCE
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		REQ'D	REQUIRED
FD	FLOOR DRAIN	REV D	REVISION
		I/LV	IVEAIOIOIA

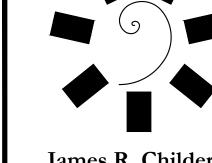
SANITARY SCHEDULE SECTION SPECIFICATION STRUCTURAL STANDARD SIDEWALK SQUARE YARD

TOP OF CURB TEMPORARY TOP OF CONCRETE TOP OF SLOPE TOE OF WALL TOP OF WALL

UNLESS NOTED OTHERWISE WITH

BP1 SHEET LIST

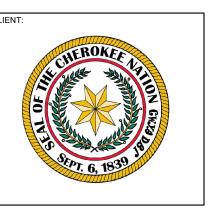
Sheet Number	Sheet Title
C0-102	General Civil Notes — BP1
C1-103	Existing Conditions
C1-104	Existing Conditions
C1-105	Existing Conditions
C2-108	NP Demolition Overview
C2-109	NP1 Demolition Plan
C2-110	NP2 Demolition Plan
C2-111	NP3 Demolition Plan
C2-112	NP4 Demolition Plan
C2-113	NP5 Demolition Plan
C2-702	NP Erosion Control Plan
C2-750	Erosion Control Details
C3-108	NP Site Plan Overview
C3-109	NP1 Site Plan
C3-110	NP2 Site Plan
C3-111	NP3 Site Plan
C3-112	NP4 Site Plan
C3-113	NP5 Site Plan
C3-501	Site Details
C3-502	Site Details
C3-503	Concrete Paving Joint Details
C5-113	NP Grading Overview
C5-114	NP1 Grading Plan
C5-115	NP2 Grading Plan
C5-116	NP3 Grading Plan
C5-117	NP4 Grading Plan
C5-118	NP5 Grading Plan
C5-210	NP Coordinates and Elevations Table
C6-201	NP Storm Plan & Profile
C6-202	NP Storm Plan & Profile
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
C6-802	NP Existing Hydrology
C6-803	NP Development Hydrology
C8-201	Force Main Plan & Profile
C8-501	Force Main Details
C9-201	Downing Driveway Plan & Profile
C9-501	Downing Driveway Details
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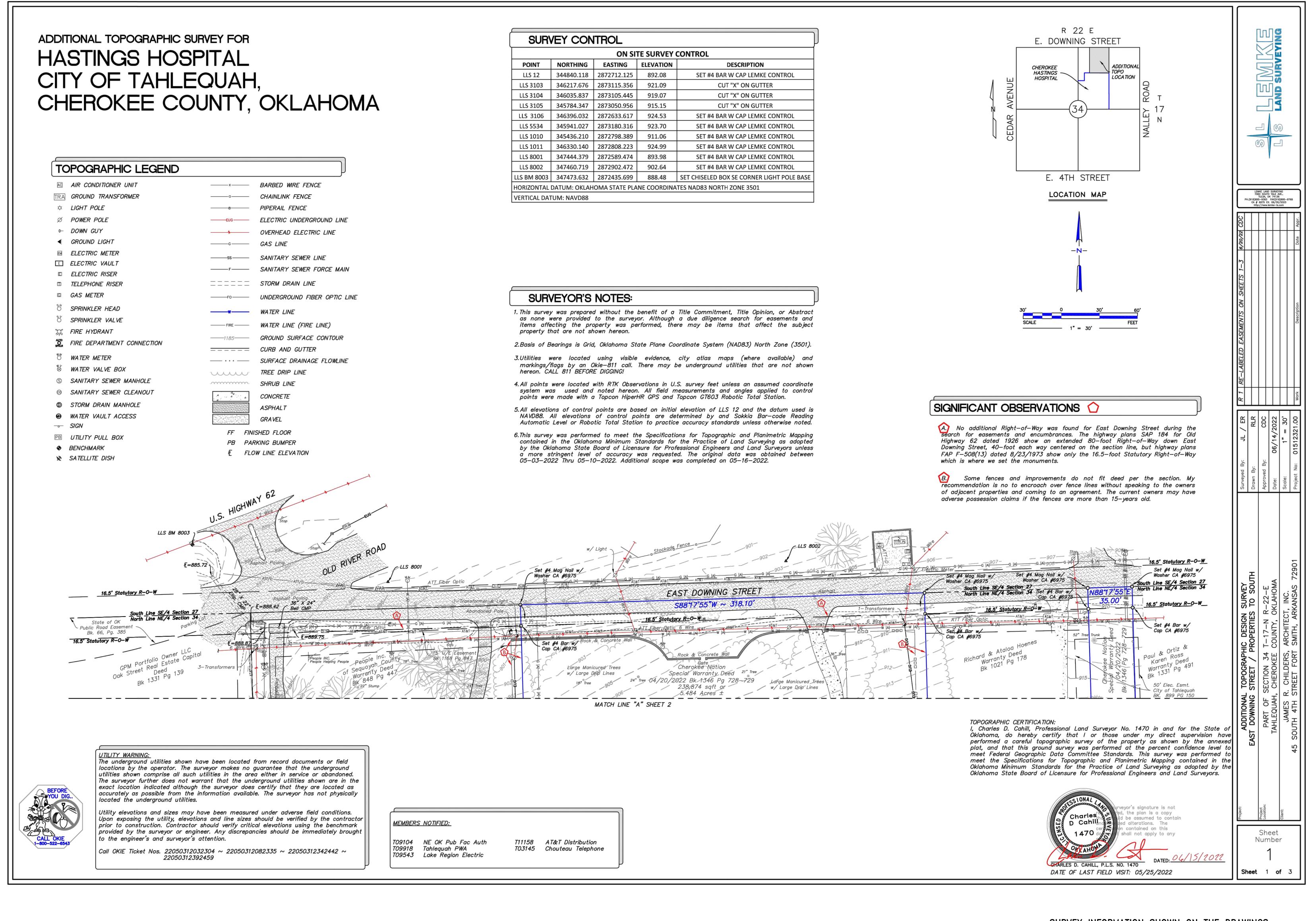
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07-29-2022 C0-102

21-08.21

GENERAL CIVIL NOTES

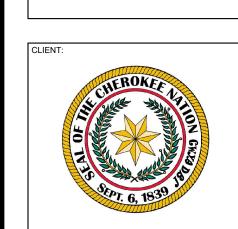


SURVEY INFORMATION SHOWN ON THE DRAWINGS
WERE PROVIDED BY LEMKE LAND SURVEYING, 3226
BART CONNER DRIVE, NORMAN, OK, 73072 PHONE
(405) 366-8541, CA #2054. THE OFFICIAL RECORD
OF THIS TOPOGRAPHIC SURVEY IS LOCATED AT THE
OFFICE OF LEMKE LAND SURVEYING.

479-783-2480

PROFESSIONAL SEAL:





ROKEE NATION REPLACEMENT HOSPIT

Y PLAN:

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PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)

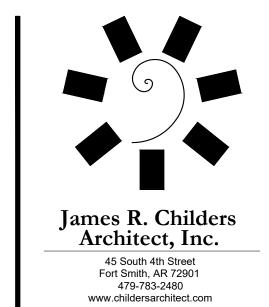
REVISIONS

21-08.21 07-29-22 ET NUMBER:

C 1-10.

EXISTING CONDITIONS

SURVEY INFORMATION SHOWN ON THE DRAWINGS
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PROFESSIONAL SEAL:





TEE NATION
PLACEMENT HOSPITAL
UAH, OKLAHOMA

/ PLAN:

PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)

(NORTH PARKING AND ACCESS)

REVISIONS

DATE: 07-29-22
SHEET NUMBER:

C1-104

EXISTING CONDITIONS

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(405) 366-8541, CA #2054. THE OFFICIAL RECORD
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PROFESSIONAL SEAL:

CONSULTANT LOGO:





CHEROKEE NATION IINGS REPLACEMENT HOSPITAL

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

REVISIONS

21-08.21

DATE: 07-29-22

SHEET NUMBER: C1-105

T TITLE:

EXISTING CONDITIONS



(KEYNOTES
1	REMOVE CONCRETE PAVEMENT.
2	REMOVE TREES, SHRUBS, AND VEGETATION.
3	PRESERVE TREES.
4	REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO REINSTALL AFTER PAVEMENT CONSTRUCTION AND REVEGETATION.
5	REMOVE GAS SERVICE LINE FROM THE MAIN. COORDINATE REMOVAL WITH NOPFA GAS.
6	REMOVE ELECTRIC SERVICE LINE. COORDINATE WITH POWER PROVIDER.
7	REMOVE POWER/LIGHT POLE.
8	REMOVE MASONRY WALL.
9	REMOVE ASPHALT PAVEMENT.
10	REMOVE EXISTING BUILDINGS, FOUNDATIONS, AND FOOTINGS. REMOVE UTILITY SERVICE LINES TO BUILDINGS. REMOVE EXTERIOR MECHANICAL EQUIPMENT SERVING THE BUILDINGS.
11	REMOVE DOG KENNELS.
12	REMOVE FENCE AND GATE.
13	PRESERVE FENCE.
14	REMOVE FENCE SOUTH OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING NORTH OF THE PROPERTY CORNER.
15	REMOVE FENCE EAST OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING WEST OF THE PROPERTY CORNER.
16	REMOVE GRAVEL.
17	REMOVE CONCRETE WALL.
18	EXISTING 3-IN POLY MEDIUM PRESSURE NOPFA GAS MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED GAS MAIN ONCE RELOCATION IS COMPLETE.
19	EXISTING 6-IN SEWER FORCE MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-) AND SEWER PLAN AND PROFILE SHEETS (C8-). REMOVE TERMINATED FORCE MAIN ONCE RELOCATION IS COMPLETE.
20	EXISTING OWNER FIBER OPTIC TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE.
21	EXISTING LREC UNDERGROUND 3-PHASE POWER AND FIBER OPTIC CABLES TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE.
22	REMOVE MASONRY BLOCK GRAVITY RETAINING WALL, GRAVEL, AND DRAIN PIPES. DO NOT BEGIN DEMOLITION UNTIL BURIED LREC POWER LINE IS RELOCATED.
23	SAWCUT AND REMOVE CURB FOR DRIVEWAY AND SIDEWALK CONSTRUCTION. REFER TO (C3-) SHEETS FOR SITE PLAN.

DEMOLITION PLAN NOTES

- A. CM SHALL CONTACT OKIE (811 OR 1-800-522-OKIE) PRIOR TO
- CONSTRUCTION FOR LOCATING EXISTING UTILITIES.

 B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS 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, HYDROVAC, OR BY
- ANY OTHER MEANS.

 C. CM 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
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 F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND
- DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.

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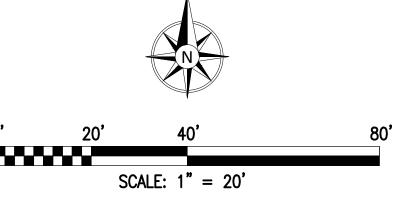
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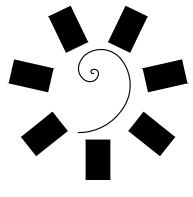
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UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE 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.

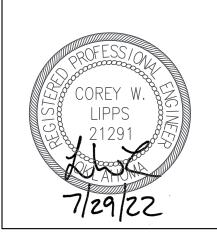
UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CM PRIOR TO CONSTRUCTION. CM SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY DISCREPANCIES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





James R. Childers Architect, Inc.

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

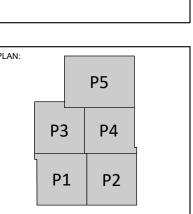






7

STINGS REPLACEMENT HC



P1 P2

PROJECT PHASE:

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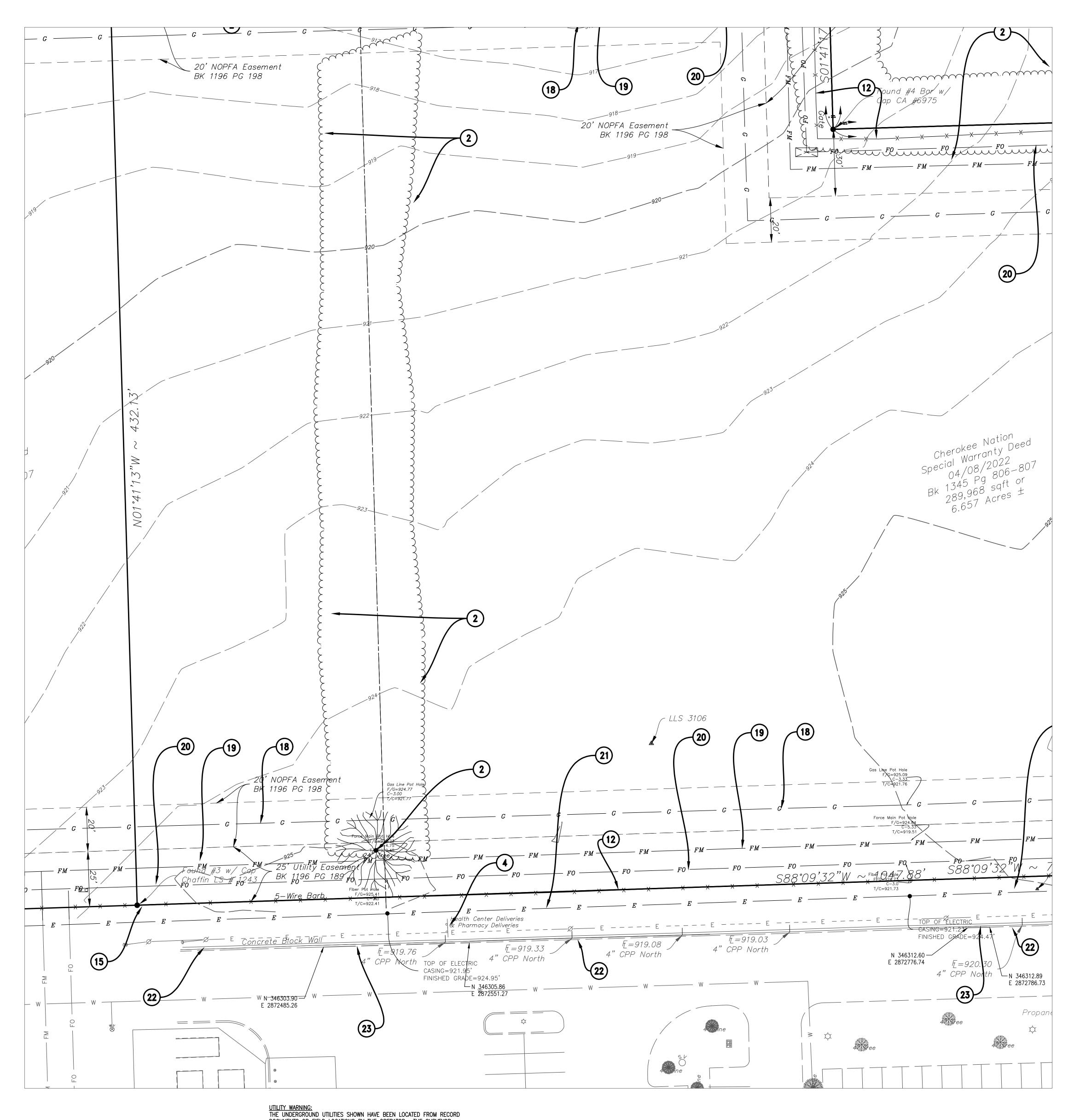
(NORTH PARKING AND ACCESS)

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 	KEVISION	13

21-08.21 ATE: 07-29-22

C2-108

NP DEMOLITION OVERVIEW



lacksquareKEYNOTES REMOVE CONCRETE PAVEMENT. REMOVE TREES, SHRUBS, AND VEGETATION. PRESERVE TREES. REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO REINSTALL AFTER PAVEMENT CONSTRUCTION AND REVEGETATION. REMOVE GAS SERVICE LINE FROM THE MAIN. COORDINATE REMOVAL WITH NOPFA GAS. REMOVE ELECTRIC SERVICE LINE. COORDINATE WITH POWER PROVIDER. REMOVE POWER/LIGHT POLE. REMOVE MASONRY WALL. REMOVE ASPHALT PAVEMENT. REMOVE EXISTING BUILDINGS, FOUNDATIONS, AND FOOTINGS. REMOVE UTILITY SERVICE LINES TO BUILDINGS. REMOVE EXTERIOR MECHANICAL EQUIPMENT SERVING THE BUILDINGS. REMOVE DOG KENNELS. REMOVE FENCE AND GATE. PRESERVE FENCE. REMOVE FENCE SOUTH OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING NORTH OF THE PROPERTY REMOVE FENCE EAST OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING WEST OF THE PROPERTY REMOVE GRAVEL. REMOVE CONCRETE WALL. EXISTING 3-IN POLY MEDIUM PRESSURE NOPFA GAS MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED GAS MAIN ONCE RELOCATION IS COMPLETE. EXISTING 6-IN SEWER FORCE MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-) AND SEWER PLAN AND PROFILE SHEETS REMOVE TERMINATED FORCE MAIN ONCE RELOCATION IS COMPLETE. EXISTING OWNER FIBER OPTIC TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. EXISTING LREC UNDERGROUND 3-PHASE POWER AND FIBER OPTIC CABLES TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. REMOVE MASONRY BLOCK GRAVITY RETAINING WALL, GRAVEL, AND DRAIN PIPES. DO NOT BEGIN DEMOLITION UNTIL BURIED LREC POWER LINE IS RELOCATED. SAWCUT AND REMOVE CURB FOR DRIVEWAY AND SIDEWALK CONSTRUCTION. REFER TO (C3-) SHEETS FOR SITE PLAN.

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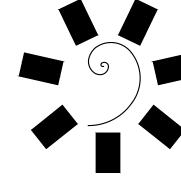
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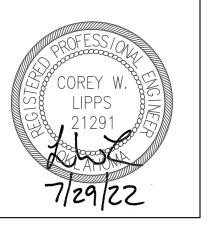
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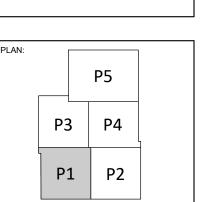
PROFESSIONAL SEAL:



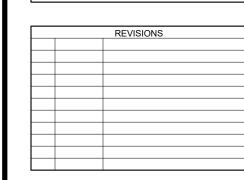




EPLACEMENT HOSPIT







21-08.21

07-29-22

SHEET NUMBER:

C2-109

HEET TITLE:

NP1 DEMOLITION PLAN

40' 80'

SCALE: 1" = 20'



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

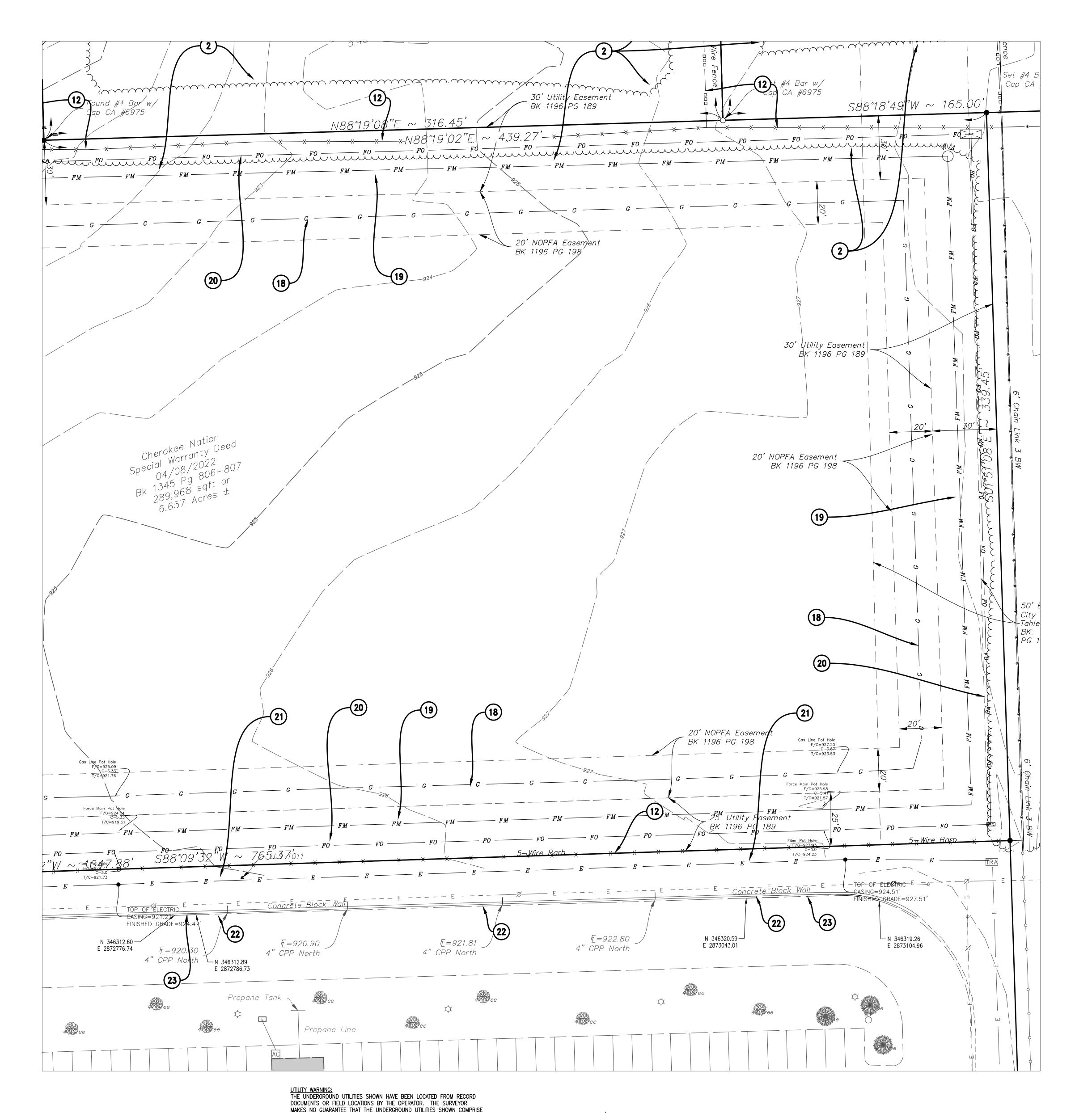
THE UNDERGROUND UTILITIES.

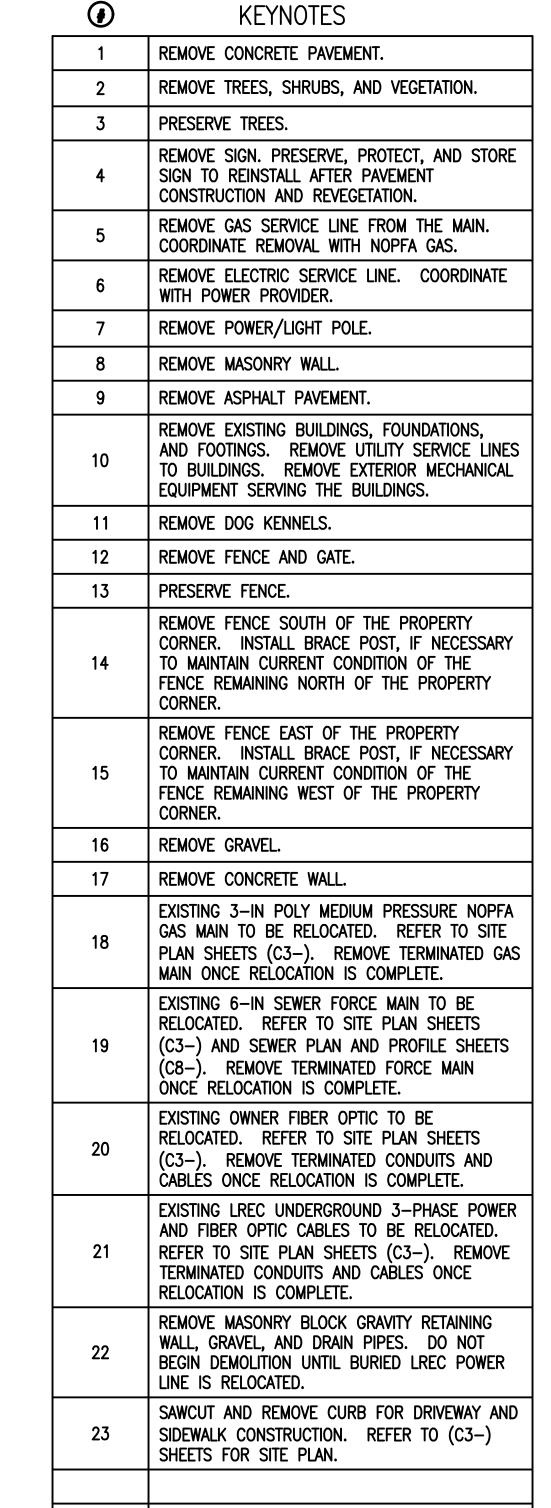
DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED

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 B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS 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
- ANY OTHER MEANS.

 C. CM 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

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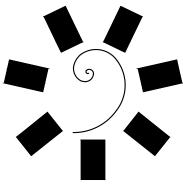
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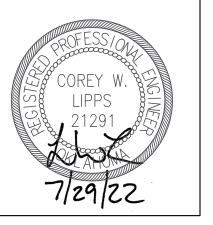
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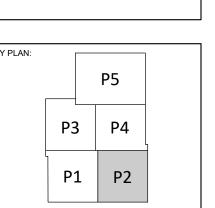


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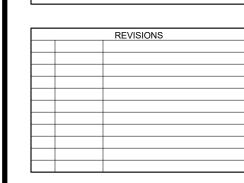
CHEROKEE NATION
ASTINGS REPLACEMENT HOSPIT



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



21-08.21

DATE: 07-29-22

SHEET NUMBER:

C2-110

NP2 DEMOLITION PLAN

40' 80'

SCALE: 1" = 20'

BEFORE YOU DIG

CALL OKIE
(800) 522-6543

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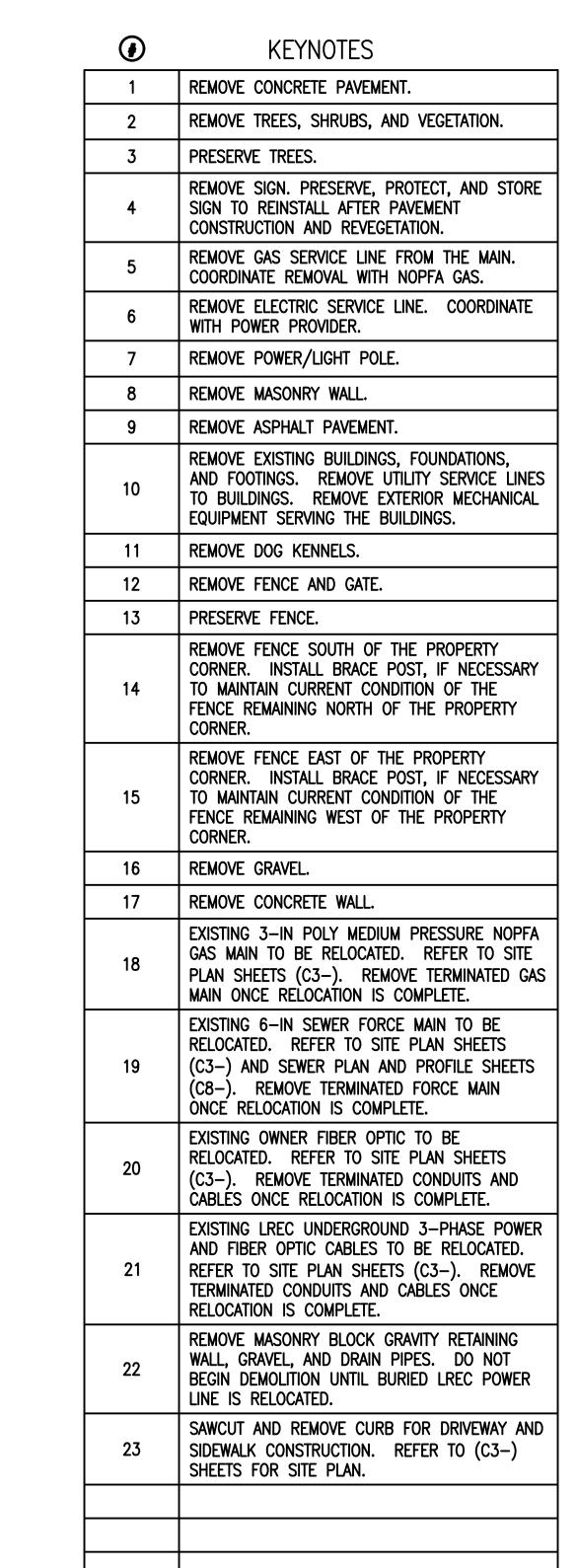
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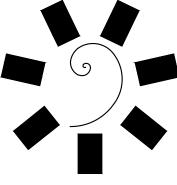
THE UNDERGROUND UTILITIES.



DEMOLITION PLAN NOTES

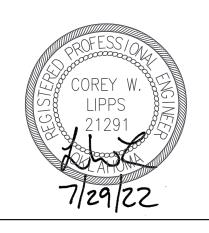
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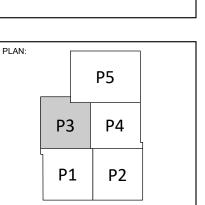
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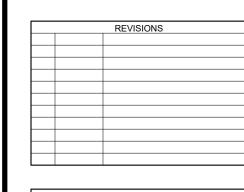




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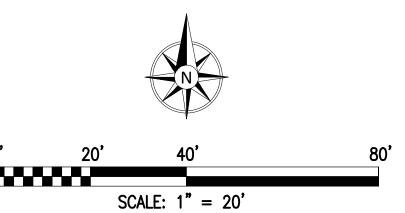


07-29-22 C2-111

21-08.21

NP3 DEMOLITION PLAN

<u>UTILITY WARNING:</u>
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 COMPRIS 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 UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE



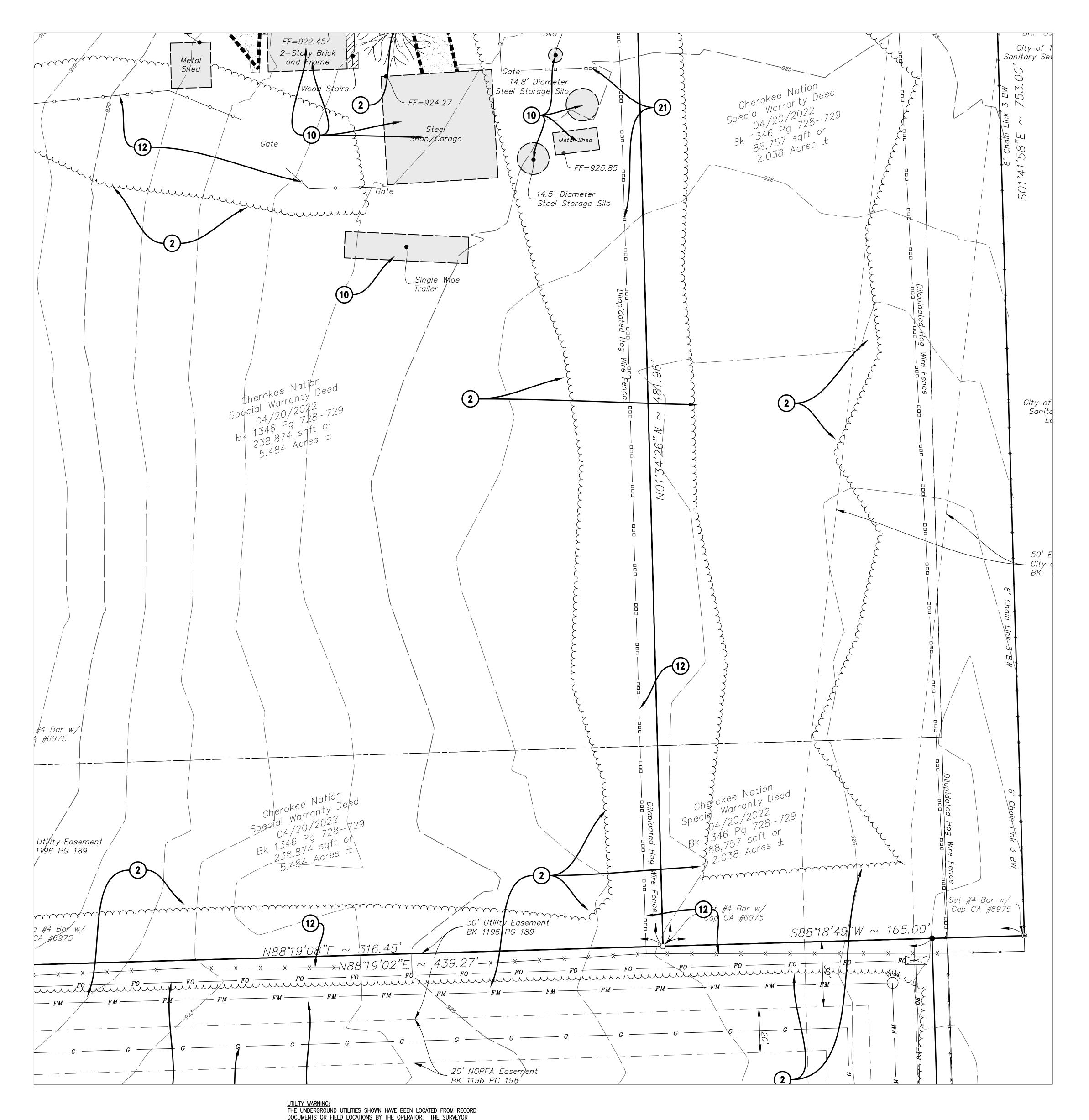


THE UNDERGROUND UTILITIES.

FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE

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lacksquareKEYNOTES REMOVE CONCRETE PAVEMENT. REMOVE TREES, SHRUBS, AND VEGETATION. PRESERVE TREES. REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO REINSTALL AFTER PAVEMENT CONSTRUCTION AND REVEGETATION. REMOVE GAS SERVICE LINE FROM THE MAIN. COORDINATE REMOVAL WITH NOPFA GAS. REMOVE ELECTRIC SERVICE LINE. COORDINATE WITH POWER PROVIDER. REMOVE POWER/LIGHT POLE. REMOVE MASONRY WALL. REMOVE ASPHALT PAVEMENT. REMOVE EXISTING BUILDINGS, FOUNDATIONS, AND FOOTINGS. REMOVE UTILITY SERVICE LINES TO BUILDINGS. REMOVE EXTERIOR MECHANICAL EQUIPMENT SERVING THE BUILDINGS. REMOVE DOG KENNELS. REMOVE FENCE AND GATE. PRESERVE FENCE. REMOVE FENCE SOUTH OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING NORTH OF THE PROPERTY REMOVE FENCE EAST OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING WEST OF THE PROPERTY REMOVE GRAVEL. REMOVE CONCRETE WALL. EXISTING 3-IN POLY MEDIUM PRESSURE NOPFA GAS MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED GAS MAIN ONCE RELOCATION IS COMPLETE. EXISTING 6-IN SEWER FORCE MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-) AND SEWER PLAN AND PROFILE SHEETS (C8-). REMOVE TERMINATED FORCE MAIN ONCE RELOCATION IS COMPLETE. EXISTING OWNER FIBER OPTIC TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. EXISTING LREC UNDERGROUND 3-PHASE POWER AND FIBER OPTIC CABLES TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. REMOVE MASONRY BLOCK GRAVITY RETAINING WALL, GRAVEL, AND DRAIN PIPES. DO NOT BEGIN DEMOLITION UNTIL BURIED LREC POWER LINE IS RELOCATED. SAWCUT AND REMOVE CURB FOR DRIVEWAY AND SIDEWALK CONSTRUCTION. REFER TO (C3-) SHEETS FOR SITE PLAN.

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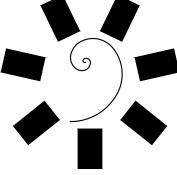
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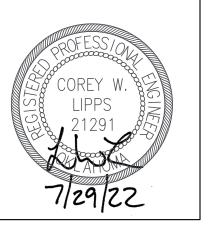
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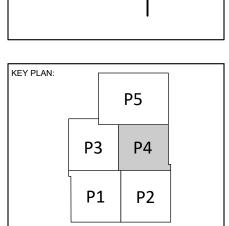
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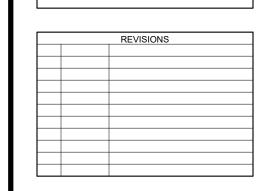


OKEE NATION
REPLACEMENT HOSPIT



PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)



21-08.21

07-29-22

SHEET NUMBER:

C2-112

SHEET TITLE:

NP4 DEMOLITION PLAN

20' 40' 80'

SCALE: 1" = 20'



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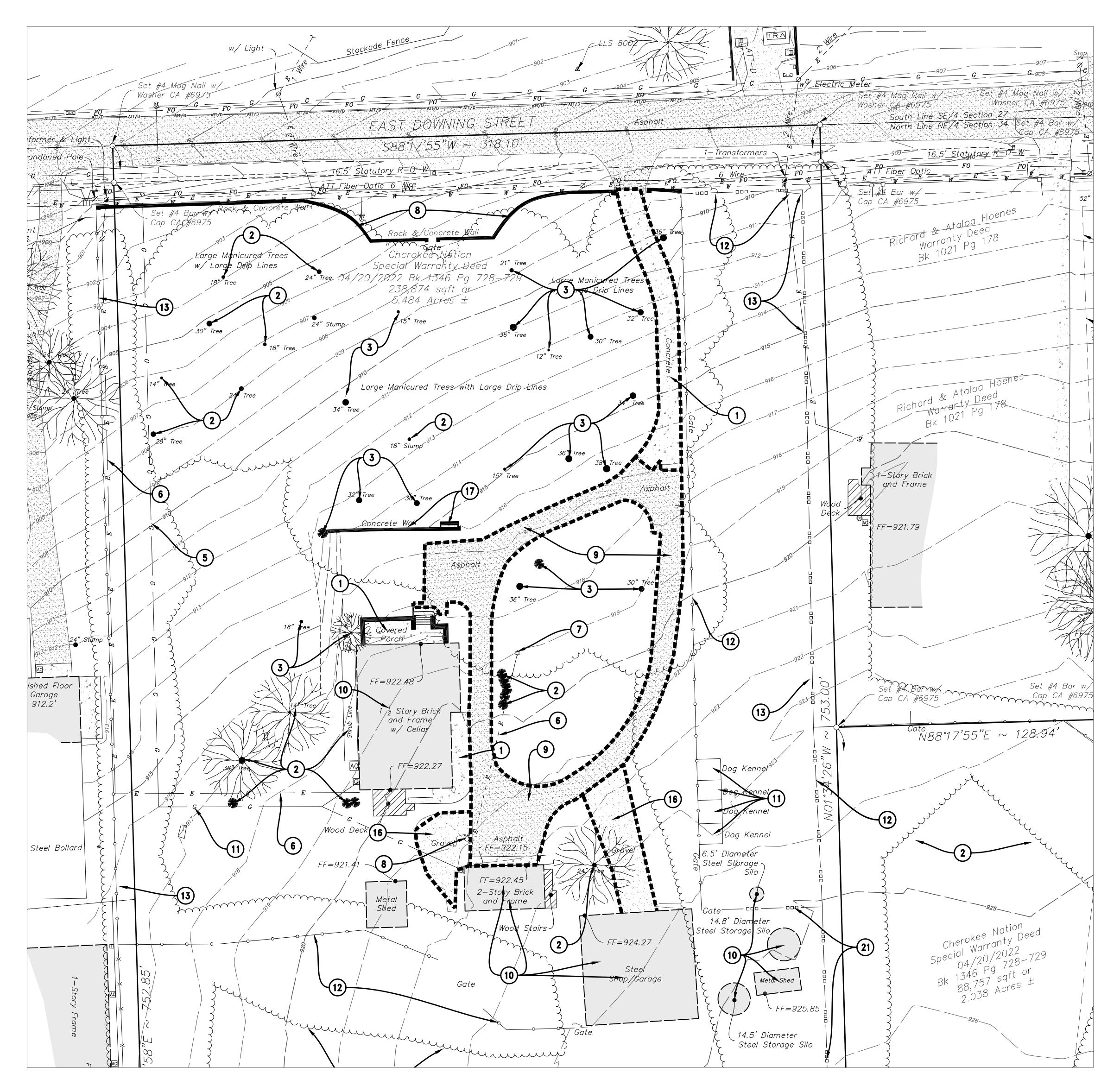
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BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.

THE UNDERGROUND UTILITIES.



KEYNOTES REMOVE CONCRETE PAVEMENT. REMOVE TREES, SHRUBS, AND VEGETATION. PRESERVE TREES. REMOVE SIGN. PRESERVE, PROTECT, AND STORE SIGN TO REINSTALL AFTER PAVEMENT CONSTRUCTION AND REVEGETATION. REMOVE GAS SERVICE LINE FROM THE MAIN. COORDINATE REMOVAL WITH NOPFA GAS. REMOVE ELECTRIC SERVICE LINE. COORDINATE WITH POWER PROVIDER. REMOVE POWER/LIGHT POLE. REMOVE MASONRY WALL. REMOVE ASPHALT PAVEMENT. REMOVE EXISTING BUILDINGS, FOUNDATIONS, AND FOOTINGS. REMOVE UTILITY SERVICE LINES TO BUILDINGS. REMOVE EXTERIOR MECHANICAL EQUIPMENT SERVING THE BUILDINGS. REMOVE DOG KENNELS. REMOVE FENCE AND GATE. PRESERVE FENCE. REMOVE FENCE SOUTH OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING NORTH OF THE PROPERTY REMOVE FENCE EAST OF THE PROPERTY CORNER. INSTALL BRACE POST, IF NECESSARY TO MAINTAIN CURRENT CONDITION OF THE FENCE REMAINING WEST OF THE PROPERTY REMOVE GRAVEL. REMOVE CONCRETE WALL. EXISTING 3-IN POLY MEDIUM PRESSURE NOPFA GAS MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED GAS MAIN ONCE RELOCATION IS COMPLETE. EXISTING 6-IN SEWER FORCE MAIN TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-) AND SEWER PLAN AND PROFILE SHEETS (C8-). REMOVE TERMINATED FORCE MAIN ONCE RELOCATION IS COMPLETE. EXISTING OWNER FIBER OPTIC TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. EXISTING LREC UNDERGROUND 3-PHASE POWER AND FIBER OPTIC CABLES TO BE RELOCATED. REFER TO SITE PLAN SHEETS (C3-). REMOVE TERMINATED CONDUITS AND CABLES ONCE RELOCATION IS COMPLETE. REMOVE MASONRY BLOCK GRAVITY RETAINING WALL, GRAVEL, AND DRAIN PIPES. DO NOT BEGIN DEMOLITION UNTIL BURIED LREC POWER LINE IS RELOCATED. SAWCUT AND REMOVE CURB FOR DRIVEWAY AND SIDEWALK CONSTRUCTION. REFER TO (C3-) SHEETS FOR SITE PLAN.

DEMOLITION PLAN NOTES

- A. CM SHALL CONTACT OKIE (811 OR 1-800-522-OKIE) PRIOR TO
- CONSTRUCTION FOR LOCATING EXISTING UTILITIES.

 B. THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS 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, HYDROVAC, OR BY
- C. CM 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
- D. ALL EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES DESIGNATED TO REMAIN OR NOT DESIGNATED TO BE REMOVED SHALL BE ADEQUATELY PROTECTED FROM DAMAGE THAT MIGHT OTHERWISE OCCUR DUE TO CONSTRUCTION OPERATIONS. WHERE CONSTRUCTION COMES NEAR EXISTING BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, UTILITIES OR APPURTENANCES, OR IF IT BECOMES NECESSARY TO MOVE SERVICES, POLES, GUY WIRES, PIPE LINES OR OTHER OBSTRUCTIONS, CM 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. CM SHALL BE LIABLE FOR DAMAGE TO ANY BUILDINGS, STRUCTURES, PAVEMENTS, IMPROVEMENTS, AND UTILITIES RESULTING FROM THE CM'S OPERATIONS. DURING CONSTRUCTION, ALL FIRE HYDRANTS, VALVE BOXES, TRAFFIC SIGNALS, FIRE OR POLICE CALL BOXES AND OTHER EXISTING UTILITY CONTROLS SHALL BE LEFT INTACT, UNOBSTRUCTED AND ACCESSIBLE UNLESS NOTED ON THE PLAN.
- E. CM SHALL SATISFY THEMSELVES AS TO THE ACTUAL EXISTING SUBSURFACE CONDITIONS, INCLUDING BUT NOT LIMITED TO THE DEPTH, LOCATION AND SIZES OF PIPE OR CONDUITS OF VARIOUS KINDS IN PLACE PRIOR TO BEGINNING WORK. WHERE THE EXACT DEPTH OF ANY UTILITY OR OBSTRUCTION IS NOT SHOWN ON A PLAN, EXCAVATION SHALL BE MADE PRIOR TO REACHING THE OBSTRUCTION IN ORDER TO DETERMINE ADJUSTMENTS IN GRADE IF NEEDED TO PREVENT INTERFERENCE. REDESIGN TO ELIMINATE CONFLICTS MAY BE NECESSARY.
 F. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND

DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.

- G. IF CM ENCOUNTERS A HAZARDOUS ENVIRONMENTAL CONDITION OR IF CM OR ANYONE FOR WHOM CM IS RESPONSIBLE CREATES A HAZARDOUS ENVIRONMENTAL CONDITION, CM SHALL IMMEDIATELY: (I) SECURE OR OTHERWISE ISOLATE SUCH CONDITION; (II) STOP ALL WORK IN CONNECTION WITH SUCH CONDITION AND IN ANY AREA AFFECTED THEREBY (EXCEPT IN AN EMERGENCY); AND (III) NOTIFY OWNER AND ENGINEER (AND PROMPTLY THEREAFTER CONFIRM SUCH NOTICE IN WRITING). OWNER SHALL PROMPTLY CONSULT WITH ENGINEER CONCERNING THE NECESSITY FOR OWNER TO RETAIN A QUALIFIED EXPERT TO EVALUATE SUCH CONDITION OR TAKE CORRECTIVE
- ACTION, IF ANY.

 H. UNLESS OTHERWISE SPECIFIED, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.

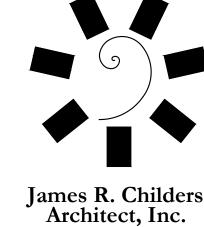
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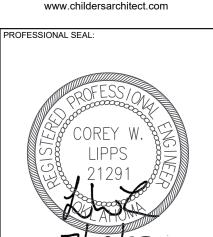
 J. CM SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING THE SITE.
- UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OFF—SITE.

 K. THE REMOVAL OF ANY UTILITY LINE, SERVICE, APPURTENANCE, AND STRUCTURE SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.
- SHALL BE COORDINATED WITH THE OWNER OF THE RESPECTIVE UTILITY.

 L. ALL PAVEMENT REMOVAL CONTIGUOUS TO PAVEMENT REMAINING SHALL BE SAWED IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT.

 ALL DEPRIS FROM PENOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE.
- M. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS SHALL NOT BE PERMITTED.
 N. CM SHALL BACKFILL ANY VOIDS RESULTING FROM STRUCTURES, VEGETATION,
 - AND OBJECTS REMOVED. FILL SHALL BE PLACED IN MAXIMUM 6" LIFTS AND COMPACTED TO A DRY DENSITY OF AT LEAST 98% OF THE MAXIMUM DRY DENSITY OBTAINED BY THE STANDARD COMPACTION TEST (ASTM D-698) AT A WATER CONTENT WITHIN 3% OF THE OPTIMUM.





Fort Smith, AR 72901

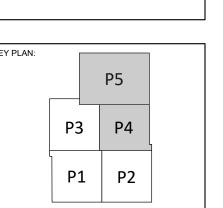
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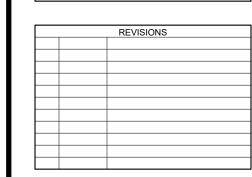
CHEROKEE NATION
STINGS REPLACEMENT HOSPITA
TAHLEQUAH, OKLAHOMA



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



21-08.21

DATE: 07-29-22

SHEET NUMBER:

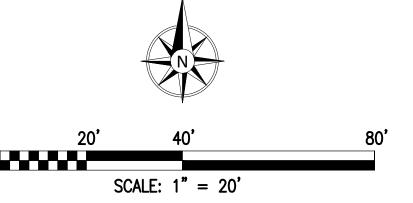
C2-113

NP5 DEMOLITION PLAN

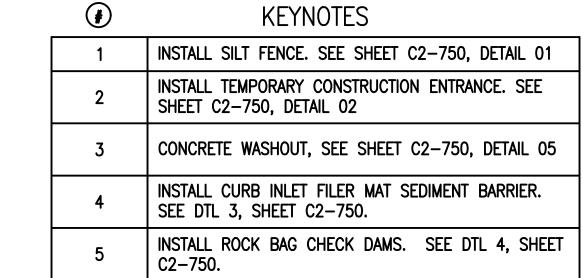
UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT 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.

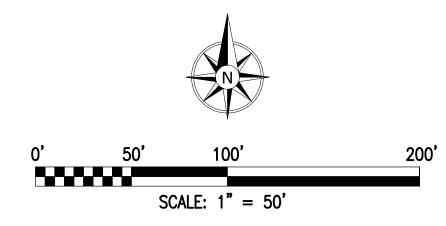
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UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CM PRIOR TO CONSTRUCTION. CM SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED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





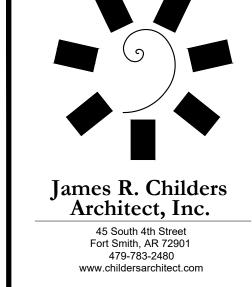


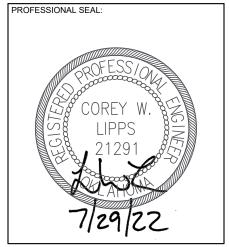


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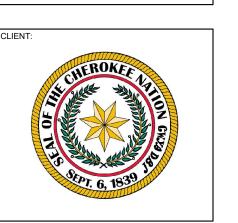
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HOSPITAL

ASTINGS REPLACEMENT H

TAHLEQUAH, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)

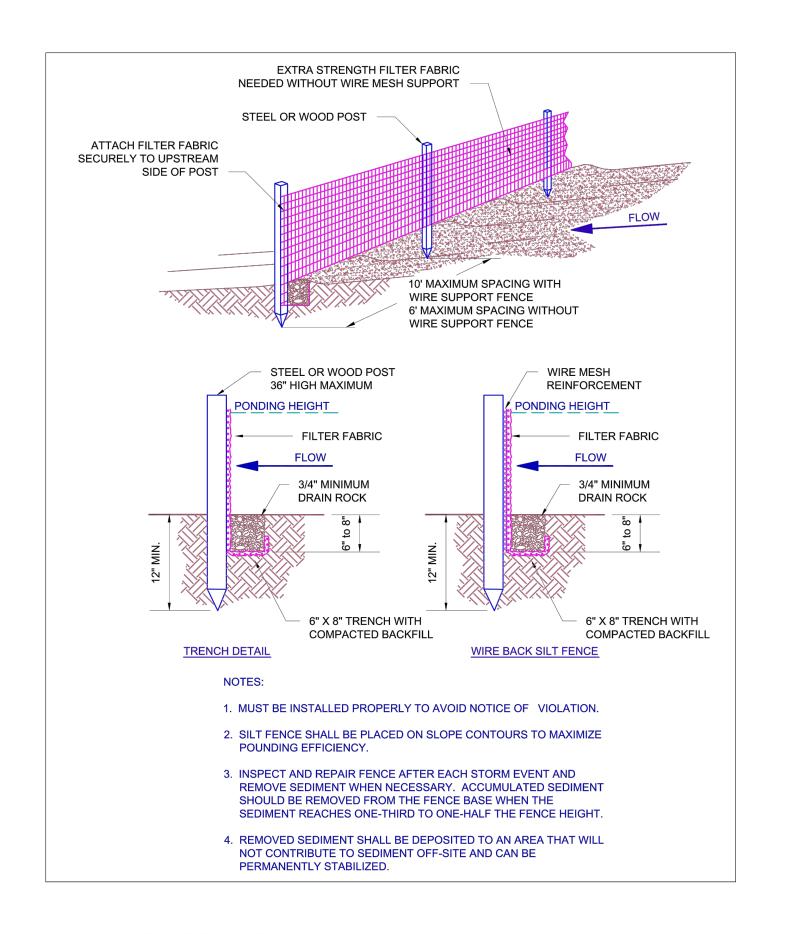
REVISIONS

DATE: 07-29-22
SHEET NUMBER:

C2-702

SHEET TITLE:

NP EROSION CONTROL



HIGH AS NECESSARY TO GEOSYNTHETIC FABRIC PREVENT RUN-OFF **FASTENER** FILTER FABRIC PONDING HEIGHT WOVEN OR NON-WOVEN GEOSYNTHETIC FABRIC SUPPLY WATER TO WASH WHEELS IF NECESSARY CATTLE GUARD MOUNTED ON 8" X 12" CONCRETE BLOCKS ON ALL FOUR CORNERS - 50' MINIMUM -1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE A MOUNTED CATTLE GUARD AND SEDIMENT PONDS TO TRAP SEDIMENT. 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. 3 WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON THE CATTLE GUARD. FIRST WASH ONE SET OF TIRES THEN, MOVE FORWARD TO WASH THE SECOND SET OF TIRES. THE GUARD IS TO BE MOUNTED ON 8" X 12" CEMENT BLOCK ON AN AREA OF STABILIZED CRUSHED STONE WITH A DRAIN INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN ON BOTH SIDES.

* * * * * T-PIN TO ANCHOR * * * 36" WIDE FILTER MAT **PLAN VIEW** FILTER FABRIC **CURB INLET** NOTES: 1. USE FILTER MAT SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET, WITH MINIMAL NEED, WHERE WATER CAN FILTER AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF. 2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT. 3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT MUST BE REMOVED FROM THE TRAVELED WAY

END POINTS 'A' MUST BE HIGHER POINT 'A' THAN FLOW LINE POINT 'B' ROCK BAGS MUST BE PLACED SUCH THAT NO GAPS ARE EVIDENT VIEW LOOKING UPSTREAM **ROCK BAGS MUST -CONFORM TO ALL** NOTES ON ERO-09 OPTIONAL ENERGY DISSIPATER SIDE VIEW 'L' = THE DISTANCE SUCH THAT POINTS 'A' AND 'B' ARE OF APPROXIMATELY EQUAL ELEVATION SPACING BETWEEN CHECK DAMS

O3) CURB INLET FILTER MAT SEDIMENT BARRIER

Scale: NTS

TEMPORARY ROCK CONSTRUCTION ENTRANCE

EROSION CONTROL NOTES

STORMWATER POLLUTION PREVENTION PLAN

A STORMWATER POLLUTION PREVENTION PLAN (SWP3) HAS BEEN PREPARED FOR THE WORK AND AN NOTICE OF INTENT (NOI) HAS BEEN SUBMITTED BY OWNER TO THE ENVIRONMENTAL PROTECTION AGENCY. CONTRACTOR SHALL IMPLEMENT THE SWP3, AND CONSTRUCT, INSPECT, AND 8. MAINTAIN THE EROSION CONTROLS TO PREVENT RUNOFF OF SILT AND SEDIMENT FROM THE SITE. A COPY OF THE SWP3 SHALL BE KEPT AT THE SITE AT ALL TIMES AND BE MADE AVAILABLE TO INSPECTORS UPON REQUEST. INSPECTIONS REPORTS SHALL BE MAINTAINED IN THE SWP3 AND THE SWP3 SHALL BE UPDATED WHEN NECESSARY.

POSTING OF PUBLIC NOTICE 1. CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING PUBLIC NOTICE. THE NOTICE SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE THAT INDICATES THE FOLLOWING INFORMATION: THE PERMIT NUMBER FOR THE PROJECT OR A COPY OF THE NOI IF A PERMIT NUMBER HAS NOT YET BEEN ASSIGNED. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT

 A BRIEF DESCRIPTION OF THE PROJECT. THE LOCATION OF THIS SWP3 IF THE SITE IS INACTIVE OR DOES NOT HAVE AN ON-SITE LOCATION TO STORE THE PLAN.

EROSION AND SEDIMENT CONTROLS CONSTRUCTION AND PLACEMENT OF EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PERFORMED IN CONJUNCTION WITH THE 3 PROGRESS OF GENERAL CONSTRUCTION. CONTRACTOR SHALL INSTALL THE EROSION CONTROL DEVICES SHOWN AND INSTALL ADDITIONAL EROSION CONTROL DEVICES AS NECESSARY TO PREVENT SILT RUNOFF FROM THE WORK AREA ONTO ADJACENT AREAS. THE EROSION AND SEDIMENT CONTROLS TO BE USED FOR THIS SITE

• TEMPORARY CONSTRUCTION ENTRANCE/EXIT - STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS INSPECTIONS WHERE CONSTRUCTION OR EMPLOYEE VEHICLES ENTER OR LEAVE THE CONSTRUCTION OR STAGING AREAS. ROCK BAG FILTER BERMS — ROCK BAG FILTER BERMS SHALL BE PLACED IN SMALL OPEN CHANNELS. THE BERMS SHALL BE

PLACED SO THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM. • ROCK BAG INLET BARRIER - ROCK BAG INLET BARRIERS SHALL BE PLACED AROUND ALL INLETS PROPOSED AND EXISTING THAT ARE RECEIVING RUNOFF FROM THE SITE. • SILT FENCES - SILT FENCES SHALL BE PLACED ALONG THE

PERIMETER OF THE PROJECT WHERE STORM WATER WILL EXIT THE SITE. SILT FENCES SHALL ALSO BE UTILIZED ALONG SLOPE CONTOURS IN J-HOOK LAYOUTS WHERE VEGETATIVE COVER IS NOT SUFFICIENTLY ESTABLISHED TO PREVENT EROSION. SODDING/SITE SEEDING — SODDING AND SEEDING

SHALL BE USED TO ESTABLISH FINAL VEGETATIVE COVER. 3. THE FOLLOWING ARE SOME OTHER CONTROLS THAT MAY BE USED IN THE COURSE OF THIS PROJECT. COMMON VEGETATIVE PRACTICES — TEMPORARY SEEDING,

MULCHING, PERMANENT SEEDING AND PLANTING, PRESERVATION OF NATURAL VEGETATION, DUST CONTROL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES – SILT FENCE, STORM DRAIN INLET PROTECTION, OUTLET

PROTECTION, BERMS FOR FUEL STORAGE AND DISPENSING

ADDITIONAL CONTROLS NOT LISTED ABOVE MAY ALSO BE CONSIDERED REPORTS

OTHER CONTROLS

1. 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. PAVEMENT ON-SITE AND ON ADJOINING STREETS SHALL BE KEPT FREE OF ANY SEDIMENT OR MUD TRACKING FROM TRUCK TIRES OR FROM OTHER EQUIPMENT.

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. 4. ANY DISPOSAL OF CONSTRUCTION WASTES, HAZARDOUS PRODUCTS, CONTAMINATED SOILS SHALL BE DISPOSED OF ACCORDING TO REQUIREMENTS OF THE CITY, COUNTY, ODEQ, AND THE U.S.

ENVIRONMENTAL PROTECTION AGENCY. 5. THE WHEELS OF VEHICLES LEAVING THE CONSTRUCTION AREAS SHALL BE CLEANED OF MUD PRIOR TO LEAVING THE CONSTRUCTION OR STAGING AREAS. WHEEL WASHING SHALL BE PERFORMED IN AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT

TRAPPING DEVICE. 6. ADEQUATE CONTROLS SHALL BE MADE TO PREVENT AND/OR CONTROL ANY RELEASE OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND DETERGENTS, AND HAZARDOUS PRODUCTS. ANY SPILL OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND

DETERGENTS, AND HAZARDOUS PRODUCTS SHALL BE CONTAINED AND

REMOVED ACCORDING TO STATE AND FEDERAL REQUIREMENTS. ANY SPILL OF PESTICIDES, PETROLEUM PRODUCTS, FERTILIZERS AND DETERGENTS, AND HAZARDOUS PRODUCTS SHALL BE REPORTED ACCORDING TO STATE AND FEDERAL REQUIREMENTS. CONTROL AND MINIMIZE THE DUST GENERATION BLOWING FROM THE SITE. PROVIDE SPRINKLING AND/OR COVER OF SOIL STOCKPILES. <u>MODIFICATIONS OR ADDITIONS TO EROSION CONTROLS</u> PROVIDE SPRINKLING AND/OR TEMPORARY SOIL EROSION CONTROLS OF AREAS THAT WILL BE EXPOSED FOR EXTENDED PERIODS.

1. ALL EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES SHALL 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 STABILIZATION REQUIREMENTS STORM WATER CONTROLS. IF MAINTENANCE PRIOR TO THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, MAINTENANCE MUST BE SCHEDULED AND ACCOMPLISHED AS SOON AS PRACTICABLE. 2. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT SHALL BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT IN STREET COULD BE WASHED INTO STORM SEWERS BY THE END OF

SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN THE DESIGN CAPACITY HAS BEEN 4. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES (E.G.,

THE DAY AND/OR POSE A SAFETY HAZARD TO USERS OF PUBLIC

SCREENING OUTFALLS, PICKED UP DAILY). CONTRACTOR SHALL INSPECT 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 SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.25 INCHES OR GREATER.

THE FOLLOWING ITEMS, LOCATIONS, AND AREAS SHALL BE INSPECTED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.

• WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY

DOWNSTREAM LOCATIONS SHALL BE INSPECTED TO THE EXTENT THAT SUCH INSPECTIONS ARE PRACTICABLE. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF EROSION CONTROLS SHALL BE MADE. MAJOR OBSERVATIONS SHOULD INCLUDE: THE LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE; LOCATION(S) OF EROSION CONTROLS THAT NEED TO BE MAINTAINED; ROCK BAG NOTES LOCATION(S) OF EROSION CONTROLS THAT FAILED TO OPERATE AS 1. ROCK BAGS SHALL BE WOVEN POLYPROPYLENE BAGS WITH DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; AND LOCATION(S) WHERE ADDITIONAL EROSION CONTROLS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION.

MODIFICATIONS MADE TO EROSION CONTROLS AS A RESULT OF INSPECTIONS SHALL BE RECORDED. REPORTS SHALL IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THIS PERMIT. THE OWNER OR CONTRACTOR SHALL SIGN THE REPORT. ANY PERSON SIGNING THE REPORT SHALL MAKE THE FOLLOWING CERTIFICATION.

I CERTIFY UNDER PENALTY OF LAW THAT THIS

DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND

COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. INSPECTION REPORTS SHALL BE MAINTAINED ON SITE.

BASED ON THE RESULTS OF THE INSPECTION, EROSION CONTROLS SHALL BE MODIFIED AS NECESSARY OR ADDITIONAL CONTROL SHALL BE PROVIDED TO CORRECT THE PROBLEMS IDENTIFIED. IF EXISTING EROSION CONTROLS NEED TO BE MODIFIED OR IF ADDITIONAL CONTROLS ARE NECESSARY, IMPLEMENTATION SHALL BE COMPLETED BEFORE THE NEXT ANTICIPATED STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE.

1. FINE GRADING SHALL BE PERFORMED ACCORDING TO THE GRADING

ALL AREAS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REVEGETATED ACCORDING TO THE LANDSCAPING PLAN. IF A LANDSCAPING PLAN IS NOT PROVIDED, THE DISTURBED AREAS SHALL BE SEEDED OR HYDRO-MULCHED AND MAINTAINED UNTIL THE GROWTH AND COVER IS ESTABLISHED UNTIL FINAL STABILIZATION IS EXCEPT WHERE THE LANDSCAPING PLAN IDENTIFIES OTHER GRASSES, GROUNDCOVER, PLANTS, OR SHRUBS TO BE PLANTED, A 4 FT WIDE STRIP OF BERMUDA GRASS SOD SHALL BE PLACED BEHIND ALL CONTRACTOR SHALL PROVIDE SUFFICIENT WATER AND FERTILIZER TO

ESTABLISH THE SUFFICIENT GROWTH OF SOD AND SEEDS UNTIL FINAL STABILIZATION OF THE AREA IS ACHIEVED. INITIATE THE INSTALLATION OF STABILIZATION MEASURES IMMEDIATELY IN ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS ON ANY PORTION OF THE SITE. THE TERM "IMMEDIATELY" IS USED TO DEFINE THE DEADLINE FOR INITIATING STABILIZATION MEASURES. IN THE CONTEXT OF THIS PROVISION, "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, FOLLOWING THE DAY WHEN THE EARTH-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

COMPLETE THE INSTALLATION OF STABILIZATION MEASURES AS SOON AS PRACTICABLE, BUT NO LATER THAN 7 CALENDAR DAYS. 5.1. FOR VEGETATIVE STABILIZATION, ALL ACTIVITIES NECESSARY TO INITIALLY SEED OR PLANT THE AREA TO BE STABILIZED; AND/OR 5.2. FOR NON-VEGETATIVE STABILIZATION, THE INSTALLATION OR APPLICATION OF ALL SUCH NON-VEGETATIVE MEASURES TO

PROVIDE EFFECTIVE COVER. 5.3. THE STABILIZATION IN 5.1 AND 5.2 SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER TEMPORARY OR PERMANENT CESSATION OF EARTH-DISTURBING ACTIVITIES.

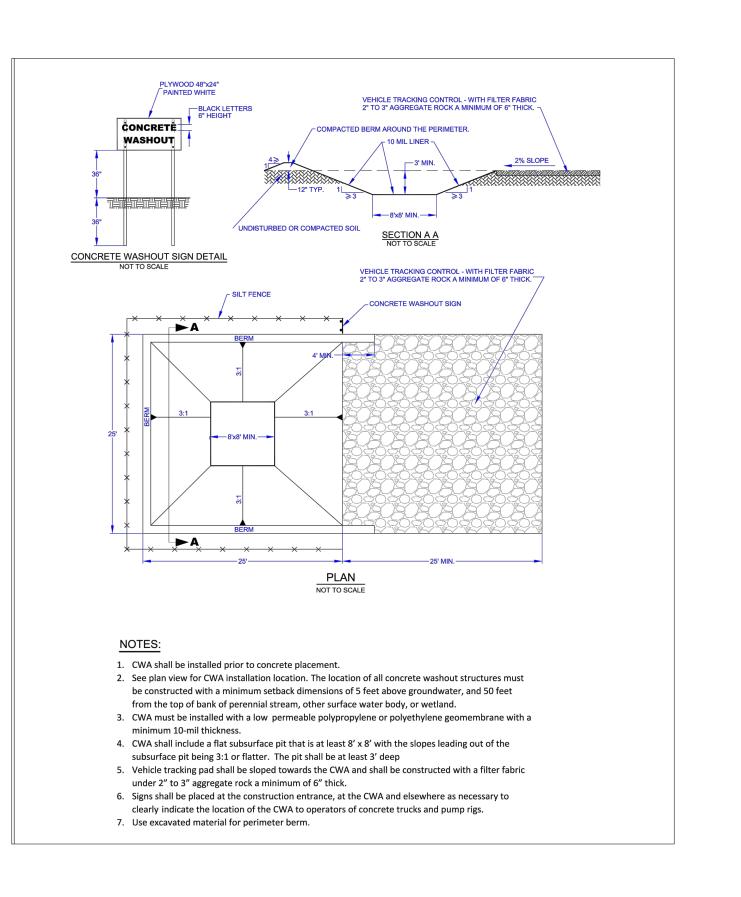
CONSTRUCTION COMPLETION AND FINAL STABILIZATION CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF CONSTRUCTION AND THE

ESTABLISHMENT OF FINAL STABILIZATION. FINAL STABILIZATION SHALL BE COMPLETE WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS OF >10 SQ.FT) PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE NATIVE BACKGROUND VEGETATIVE COVER FOR THE AREA HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIPRAP, GABIONS, OR GEOTEXTILES) HAVE BEEN EMPLOYED.

APPROXIMATE DIMENSIONS OF 18.5 INCHES BY 28 INCHES. BAGS SHALL BE FILLED 1/2 TO 3/3 FULL WITH 1 TO 3 INCH STONE. THE ENDS OF FILLED BAGS SHALL BE SEALED USING EITHER DRAW STRINGS OR WIRE TIES.

INTERWEAVE THE LOOSE ENDS OF THE BAGS SO THAT GAPS

BETWEEN BAGS ARE FILLED AND ENDS OF BAGS ARE SEALED. COMPLETELY SURROUND INLET WITH A MINIMUM OF TWO ROWS OF BAGS TO MINIMUM OF 12 INCHES IN HEIGHT. THE CONDITION OF THE ROCK BAGS SHALL BE EXAMINED DURING INSPECTIONS. ANY DAMAGE TO BAGS SHALL BE REPAIRED IMMEDIATELY. IF BAGS HAVE DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN OR WEAR AND TEAR, THE SHALL BE REPLACED. SEDIMENT MUST BE REMOVED WHEN IT REACHES 3 INCHES HIGH ON



CONCRETE WASHOUT

BACK OF SIDEWALK PLACE ROCK BARRIER BAGS SUCH THAT NO GAPS ARE EVIDENT PONDING AREA FOR SEDIMENT SEPARATION PLAN VIEW PLACE FILTER FABRIC UNDER GRATE AND ON BACK OF GRATE TO BE HELD WITH ROCK BARRIER BAGS SUCH THAT NO GAPS ARE EVIDENT CATCH BASIN SECTION A-A 1. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF. 2. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT 3. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES. 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

ROCK BAG CURB INLET BARRIER

ROCK BAG CURB INLET BARRIER

James R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com



CONSULTANT LOGO:





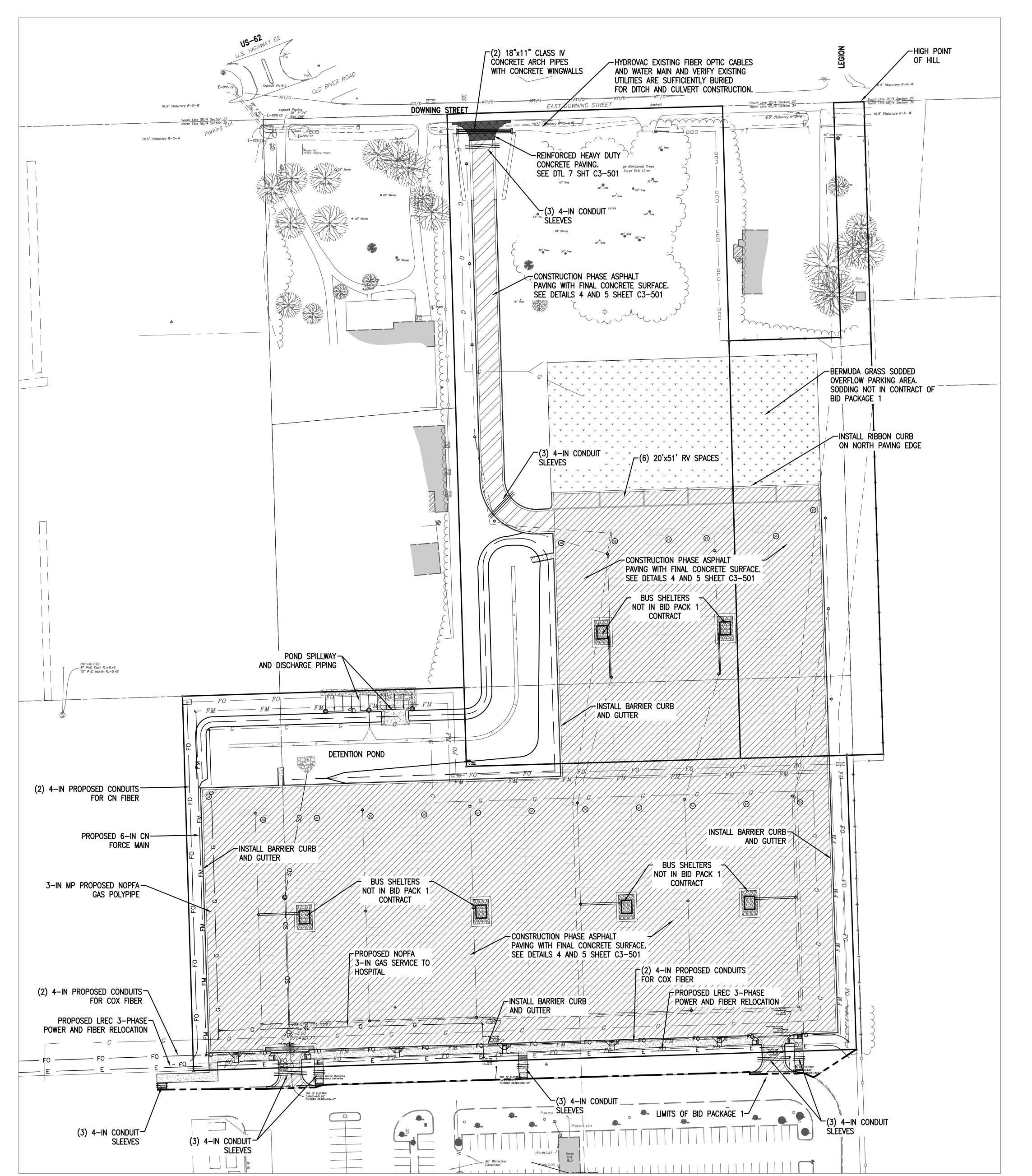
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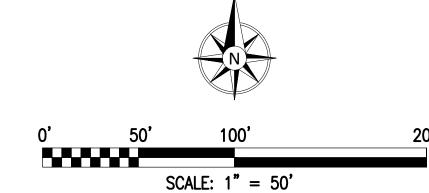
EROSION CONTROL DETAILS

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PARKING TOTALS

846 STANDARD SPACES



HARDSCAPE PATTERNS

CONCRETE SIDEWALKS

CONSTRUCTION PHASE ASPHALT PAVING WITH FINAL CONCRETE PAVING

REINFORCED HEAVY DUTY CONCRETE PAVING

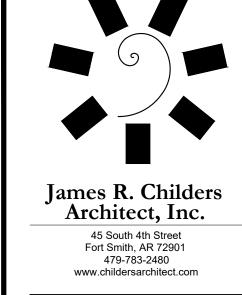
SODDING / SEEDING / VEGETATIVE COVER

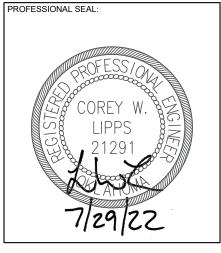
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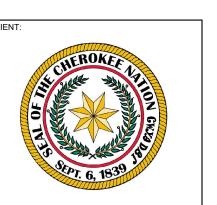
BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.











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STINGS REPLACEMENT HOS

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

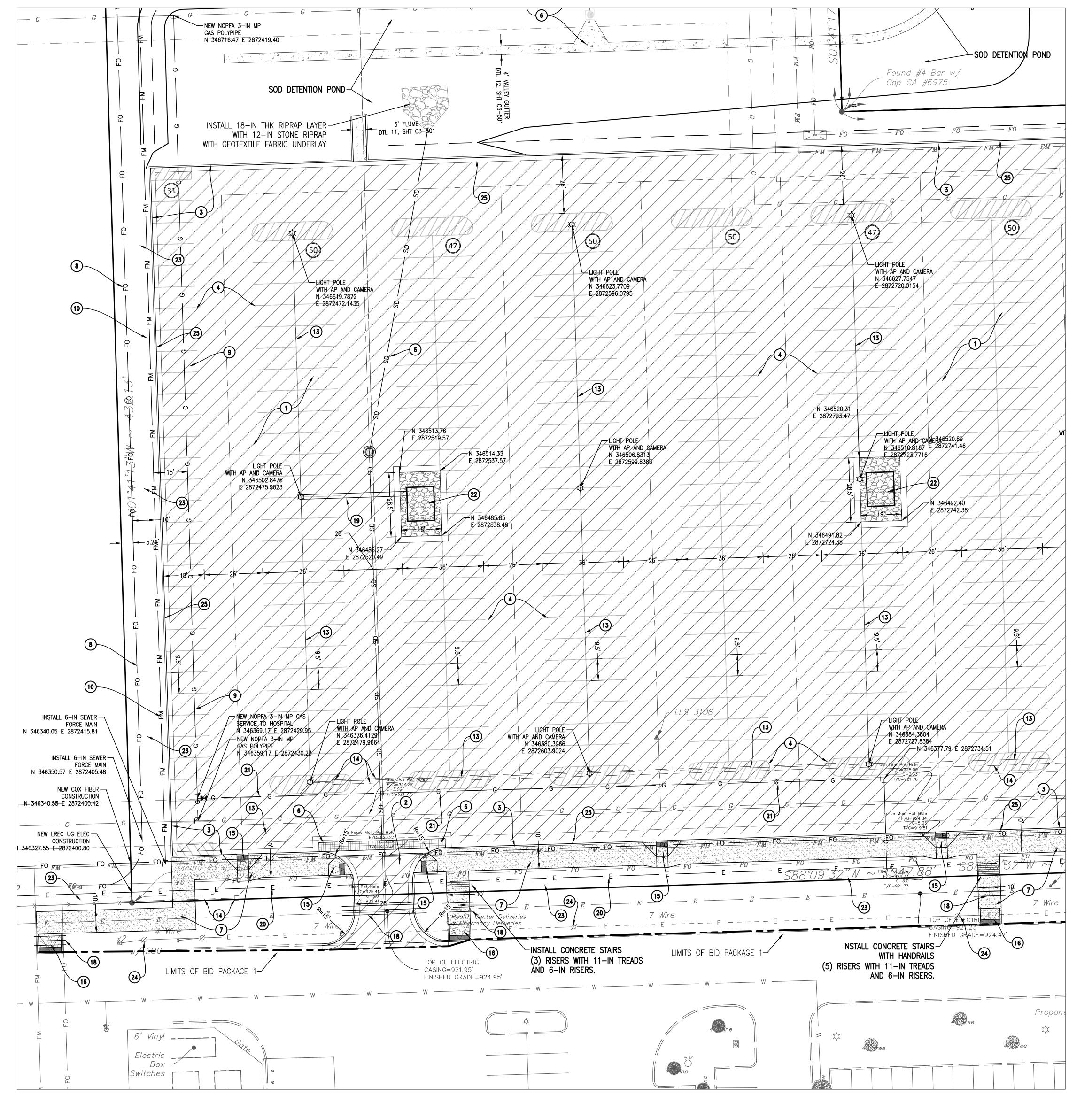
REVISIONS

DATE: 21-08.21

DATE: 07-29-22

SHEET NUMBER: C3-108

NP SITE PLAN OVERVIEW



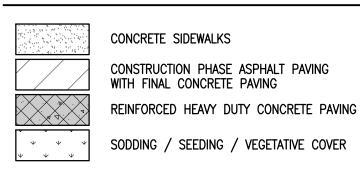
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KEYNOTES

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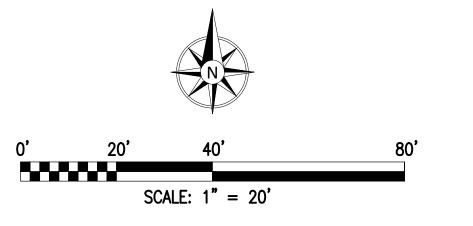
SEE DTL 6, SHEET C3-502 FOR PHASED EDGE OF PAVING DETAIL.





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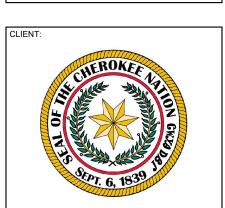
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479-783-2480

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PROFESSIONAL SEAL:



TINGS REPLACEMENT HO

P5 P3 P4 P1 P2

P1 P2

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

REVISIONS

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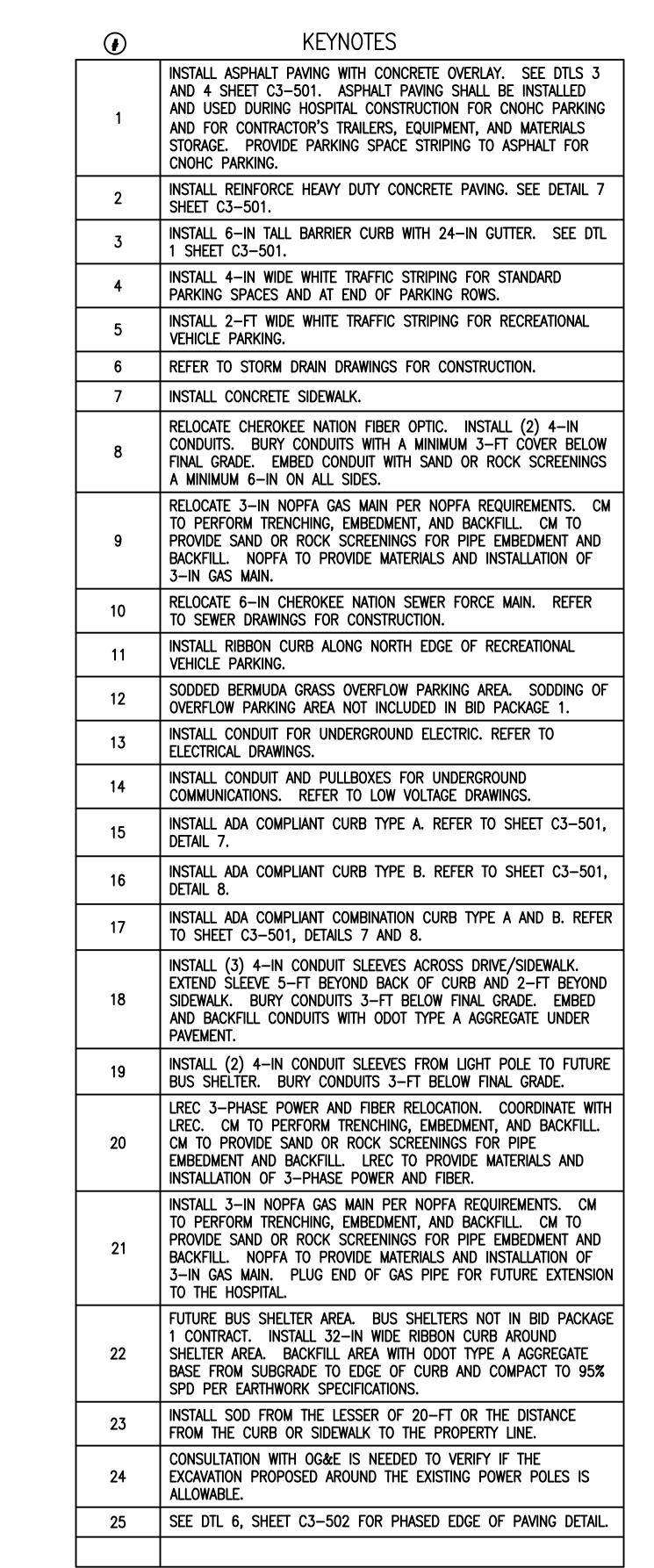
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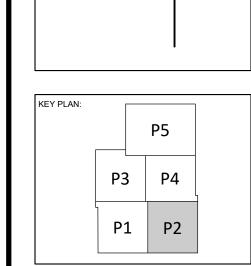
NP1 SITE PLAN

SCALE: 1" = 20



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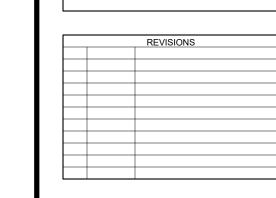
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PROFESSIONAL SEAL

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



21-08.21
DATE: 07-29-22
SHEET NUMBER:

C3-110

SHEET TITLE:

NP2 SITE PLAN

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THE UNDERGROUND UTILITIES.

THE INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED

WITH FINAL CONCRETE PAVING

REINFORCED HEAVY DUTY CONCRETE PAVING

SODDING / SEEDING / VEGETATIVE COVER

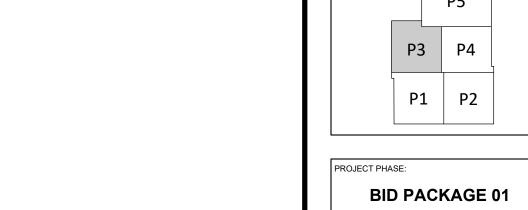
SCALE: 1" = 20'

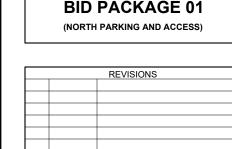
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21-08.21 07-29-22 C3-111

NP3 SITE PLAN

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CONSTRUCTION PHASE ASPHALT PAVING

REINFORCED HEAVY DUTY CONCRETE PAVING

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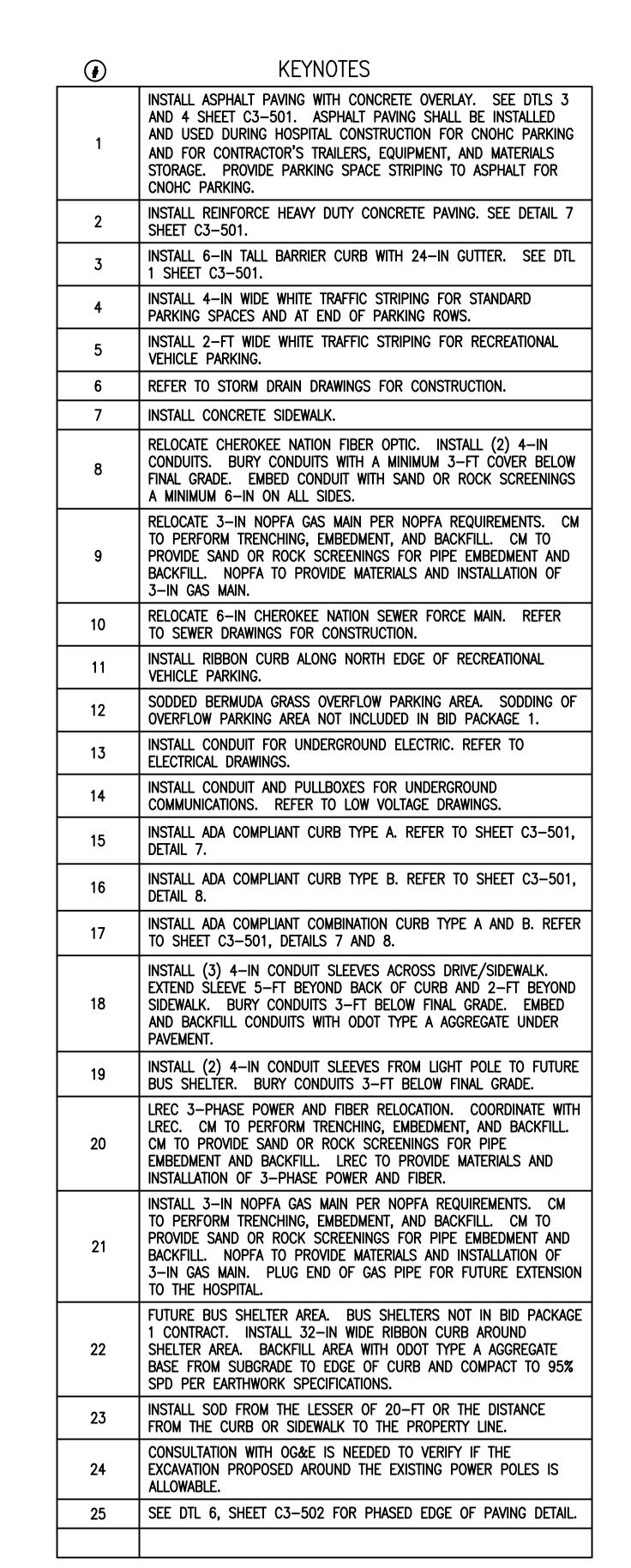
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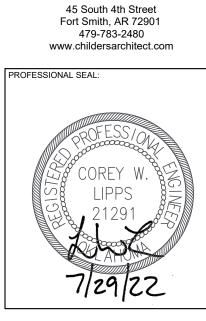
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SCALE: 1" = 20



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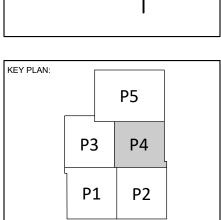
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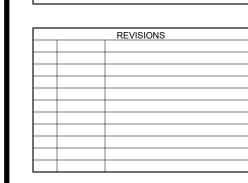




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C3-112SHEET TITLE:

NP4 SITE PLAN

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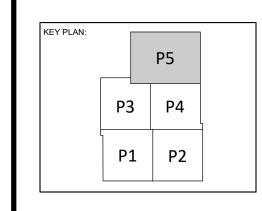


SCALE: 1" = 20'

INSTALL ASPHALT PAVING WITH CONCRETE OVERLAY. SI AND 4 SHEET C3-501. ASPHALT PAVING SHALL BE IN AND USED DURING HOSPITAL CONSTRUCTION FOR CNO-AND FOR CONTRACTOR'S TRAILERS, EQUIPMENT, AND MA STORAGE. PROVIDE PARKING SPACE STRIPING TO ASPH CNOHC PARKING. INSTALL REINFORCE HEAVY DUTY CONCRETE PAVING. SE SHEET C3-501. INSTALL 6-IN TALL BARRIER CURB WITH 24-IN GUTTER 1 SHEET C3-501. INSTALL 4-IN WIDE WHITE TRAFFIC STRIPING FOR STANI PARKING SPACES AND AT END OF PARKING ROWS. INSTALL 2-FT WIDE WHITE TRAFFIC STRIPING FOR RECR VEHICLE PARKING. REFER TO STORM DRAIN DRAWINGS FOR CONSTRUCTION INSTALL CONCRETE SIDEWALK. RELOCATE CHEROKEE NATION FIBER OPTIC. INSTALL (2 CONDUITS. BURY CONDUITS WITH A MINIMUM 3-FT CO FINAL GRADE. EMBED CONDUIT WITH SAND OR ROCK A MINIMUM 6-IN ON ALL SIDES. RELOCATE 3-IN NOPFA GAS MAIN PER NOPFA REQUIREI TO PERFORM TRENCHING, EMBEDMENT, AND BACKFILL. PROVIDE SAND OR ROCK SCREENINGS FOR PIPE EMBE BACKFILL. NOPFA TO PROVIDE MATERIALS AND INSTALI 3-IN GAS MAIN. RELOCATE 6-IN CHEROKEE NATION SEWER FORCE MAIN TO SEWER DRAWINGS FOR CONSTRUCTION. INSTALL RIBBON CURB ALONG NORTH EDGE OF RECREA VEHICLE PARKING. SODDED BERMUDA GRASS OVERFLOW PARKING AREA. OVERFLOW PARKING AREA NOT INCLUDED IN BID PACKA INSTALL CONDUIT FOR UNDERGROUND ELECTRIC. REFER ELECTRICAL DRAWINGS. INSTALL CONDUIT AND PULLBOXES FOR UNDERGROUND COMMUNICATIONS. REFER TO LOW VOLTAGE DRAWINGS. INSTALL ADA COMPLIANT CURB TYPE A. REFER TO SHEE INSTALL ADA COMPLIANT CURB TYPE B. REFER TO SHEE INSTALL ADA COMPLIANT COMBINATION CURB TYPE A AN TO SHEET C3-501, DETAILS 7 AND 8. INSTALL (3) 4-IN CONDUIT SLEEVES ACROSS DRIVE/SIC EXTEND SLEEVE 5-FT BEYOND BACK OF CURB AND 2-SIDEWALK. BURY CONDUITS 3-FT BELOW FINAL GRADE AND BACKFILL CONDUITS WITH ODOT TYPE A AGGREGATI INSTALL (2) 4-IN CONDUIT SLEEVES FROM LIGHT POLE BUS SHELTER. BURY CONDUITS 3-FT BELOW FINAL GF LREC 3-PHASE POWER AND FIBER RELOCATION. COOR LREC. CM TO PERFORM TRENCHING, EMBEDMENT, AND CM TO PROVIDE SAND OR ROCK SCREENINGS FOR PIPE EMBEDMENT AND BACKFILL. LREC TO PROVIDE MATERIA INSTALLATION OF 3-PHASE POWER AND FIBER. INSTALL 3-IN NOPFA GAS MAIN PER NOPFA REQUIREME TO PERFORM TRENCHING, EMBEDMENT, AND BACKFILL. PROVIDE SAND OR ROCK SCREENINGS FOR PIPE EMBED BACKFILL. NOPFA TO PROVIDE MATERIALS AND INSTALL 3-IN GAS MAIN. PLUG END OF GAS PIPE FOR FUTUR! TO THE HOSPITAL. FUTURE BUS SHELTER AREA. BUS SHELTERS NOT IN E 1 CONTRACT. INSTALL 32-IN WIDE RIBBON CURB AROL SHELTER AREA. BACKFILL AREA WITH ODOT TYPE A AG BASE FROM SUBGRADE TO EDGE OF CURB AND COMPA SPD PER EARTHWORK SPECIFICATIONS. INSTALL SOD FROM THE LESSER OF 20-FT OR THE DIS FROM THE CURB OR SIDEWALK TO THE PROPERTY LINE CONSULTATION WITH OG&E IS NEEDED TO VERIFY IF TH EXCAVATION PROPOSED AROUND THE EXISTING POWER SEE DTL 6, SHEET C3-502 FOR PHASED EDGE OF PAN

KEYNOTES

PROVIDE PARKING SPACE STRIPING FOR CI PARKING SPACES ON THE CONSTRUCTION | ASPHALT PAVEMENT. CNOHC PARKING SP. AND CONTRACTOR AREA TO BE LATER DEF



CHEROKE HASTINGS REPI

James R. Childers

Architect, Inc.

45 South 4th Street

Fort Smith, AR 72901

479-783-2480

www.childersarchitect.com

PROFESSIONAL SEAL:

CONSULTANT LOGO:

14101 Wireless Way, Suite 350 Oklahoma City, OK 73134 405-832-9900

www.parkhill.com

Oklahoma CA #4935, Expires 6/30/2023

BID PACKAGE 01

	REVISIONS	

21-08.21 07-29-22 C3-113

NP5 SITE PLAN

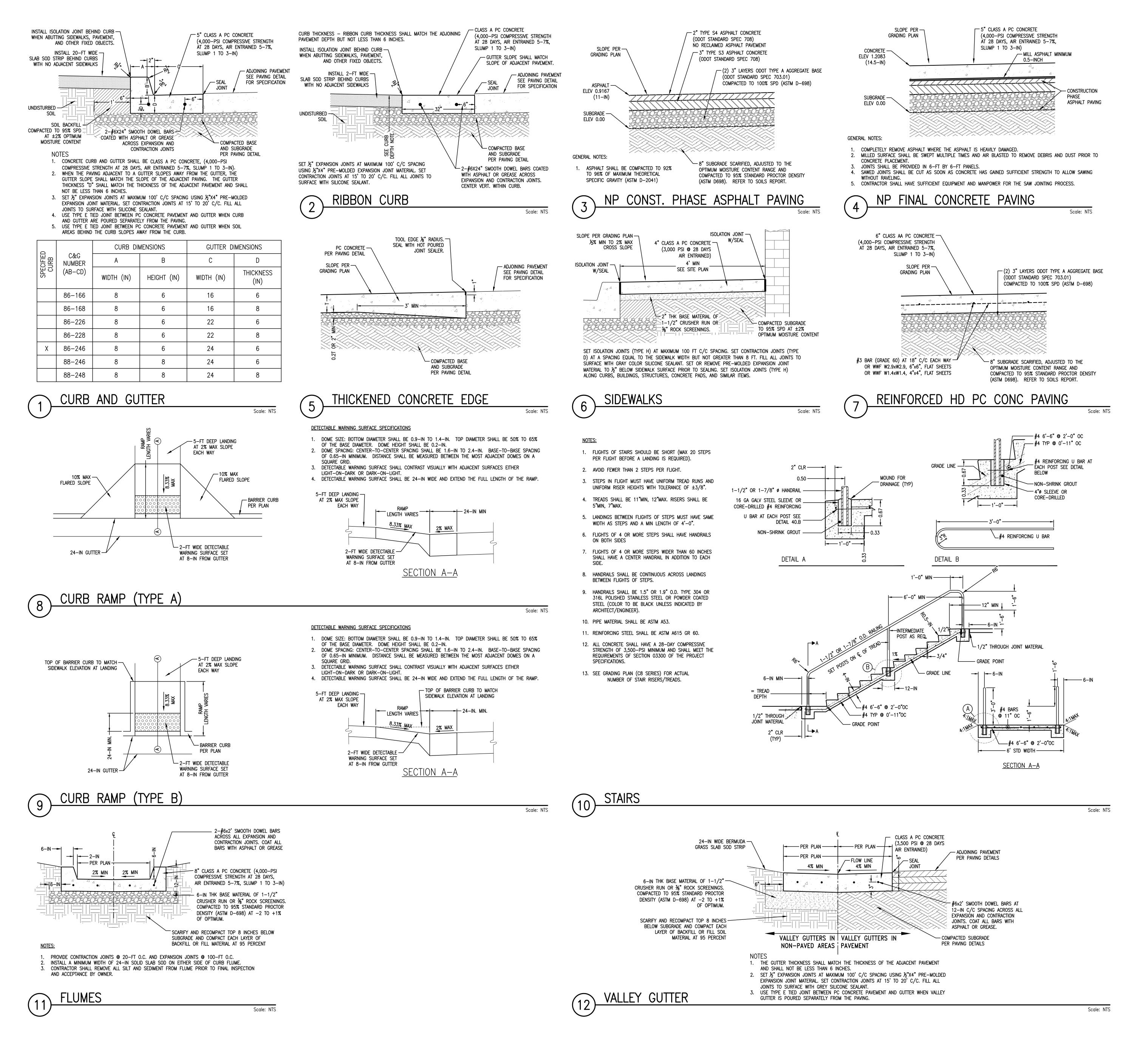
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UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE

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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EH CH

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

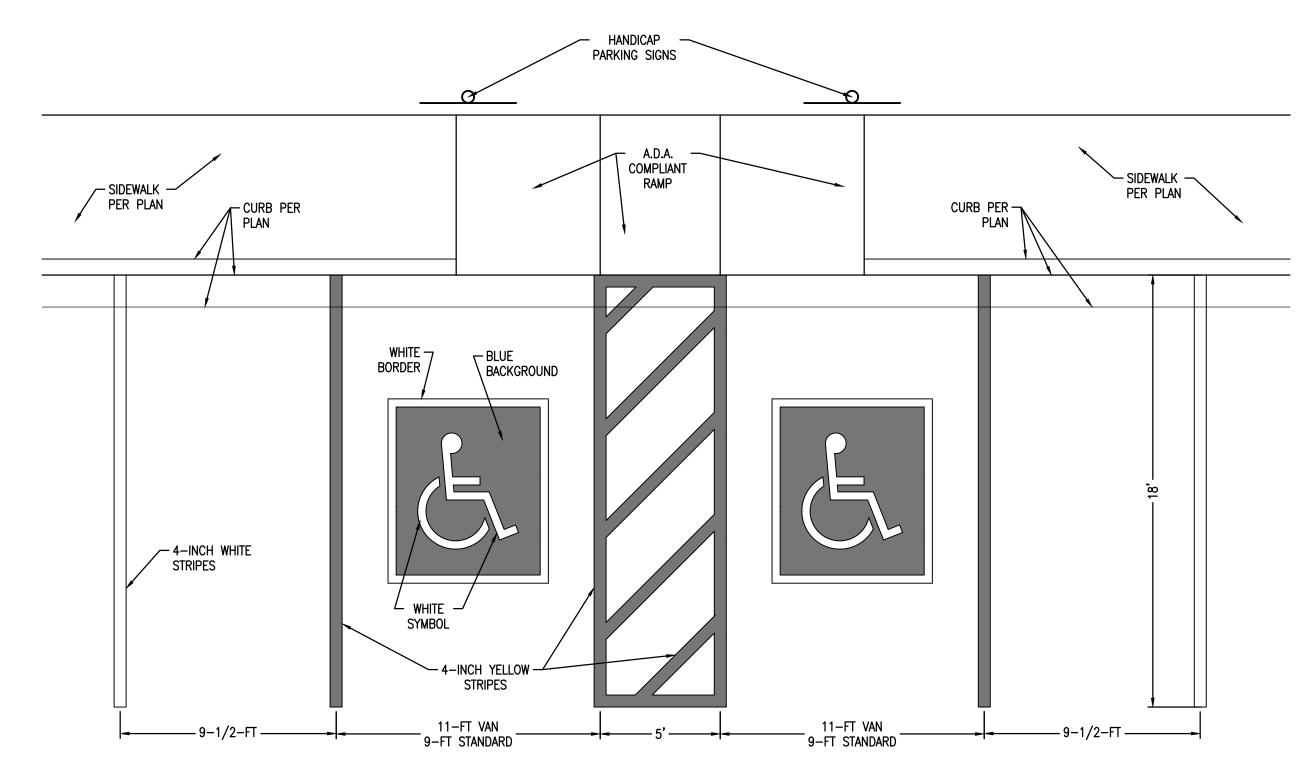
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07-29-2022

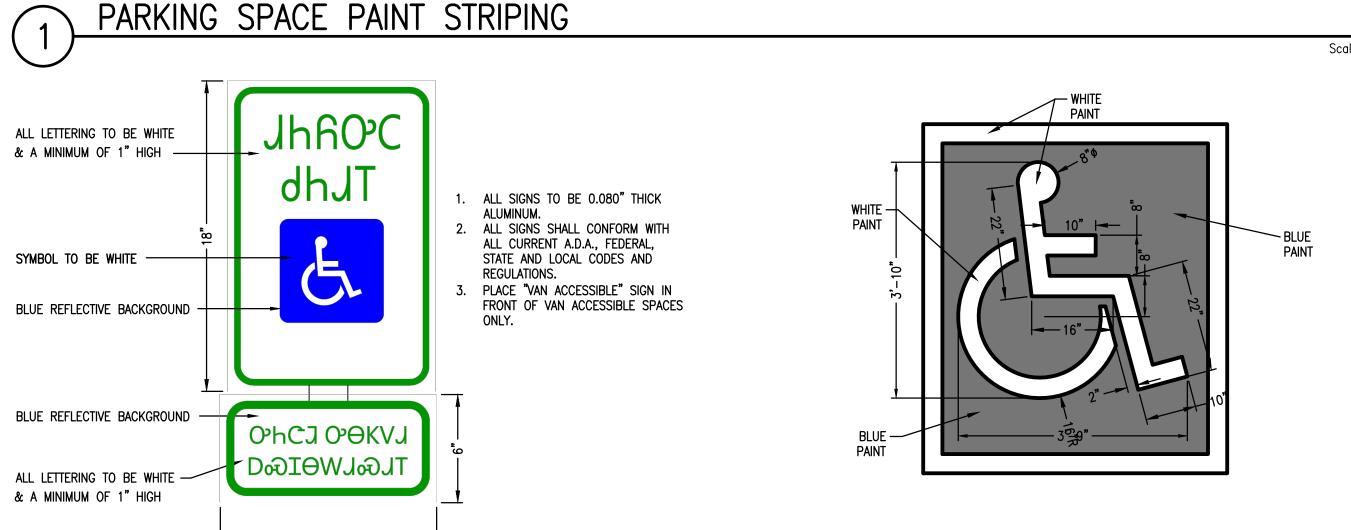
C3-501

SITE DETAILS

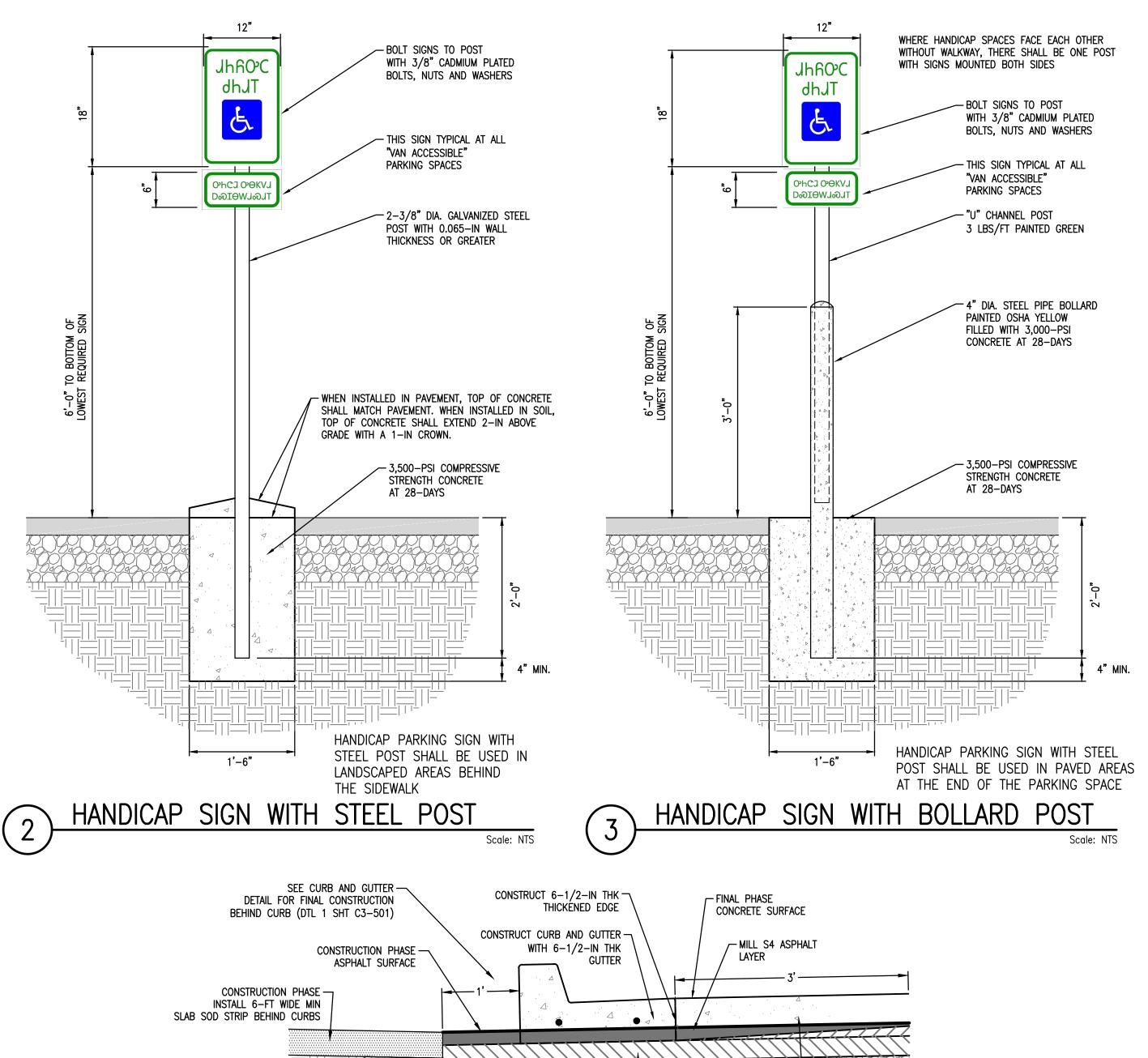
45 South 4th Street

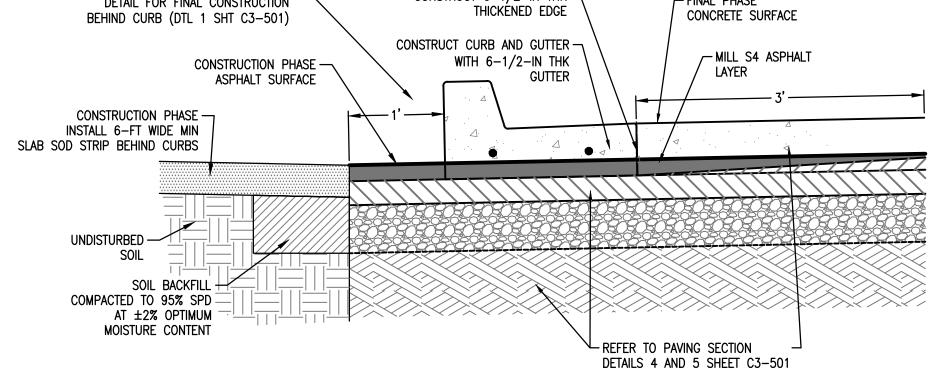


PARKING SPACE LINES SHALL BE PAINTED WHITE. HANDICAPPED ACCESS AISLES AND NO PARKING AREAS SHALL BE PAINTED YELLOW. HANDICAPPED PARKING SPACE SYMBOLS SHALL BE PAINTED BLUE AND WHITE AS SHOWN IN DETAIL PROVIDED. FIRELANE STRIPING SHALL BE PAINTED RED. PAVEMENT STRIPING SHALL BE APPLIED IN TWO COATS, FOUR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

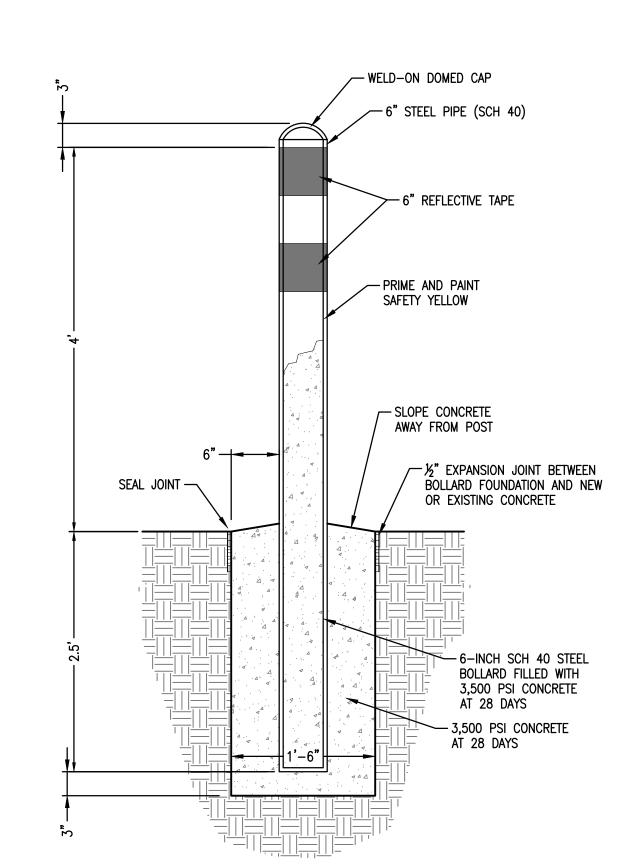








NORTH PARKING PHASED EDGE OF PAVING DETAIL







Scale: NTS

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479-783-2480

www.childersarchitect.com

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PROJECT PHASE: **BID PACKAGE 01** (NORTH PARKING AND ACCESS)

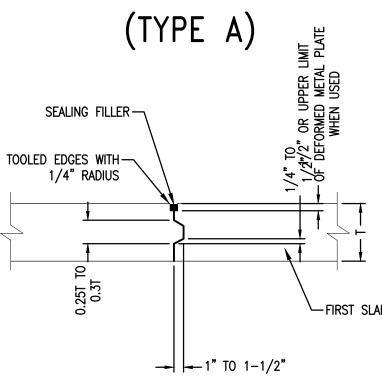
07-29-2022 C3-502

SITE DETAILS

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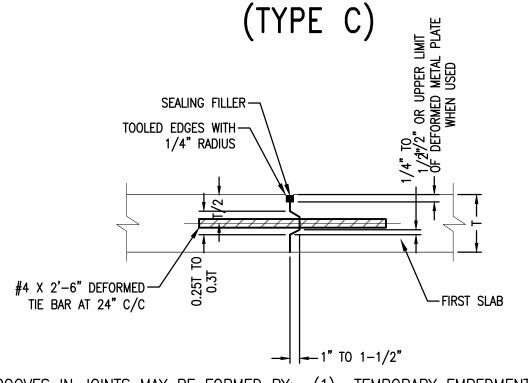
SMOOTH DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION CAPS, AND COATED WITH ASPHALT OR GREASE. GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE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

EXPANSION JOINT



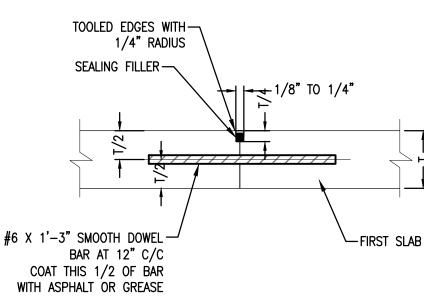
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TONGUE & GROOVE CONSTRUCTION JOINT



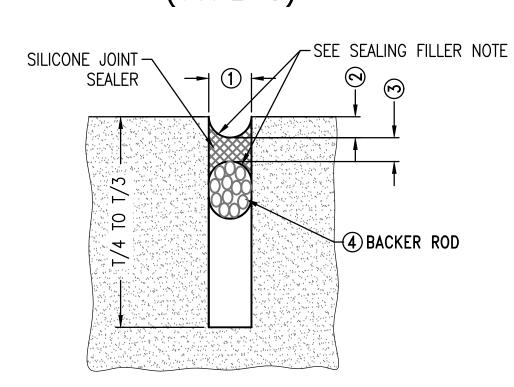
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TIED CONSTRUCTION JOINT (TYPE E)



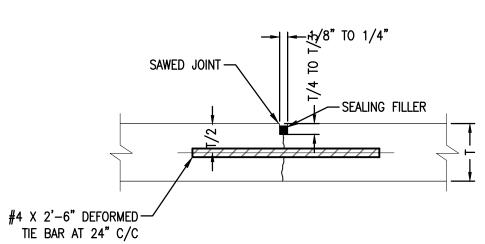
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

DOWELED CONSTRUCTION JOINT (TYPE G)



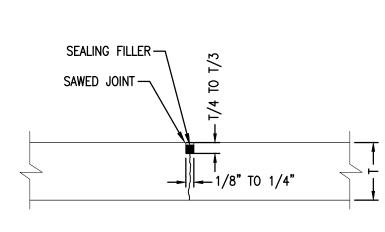
CONTRACTION JOINT SEALING FILLER

CONCRETE JOINT DETAILS



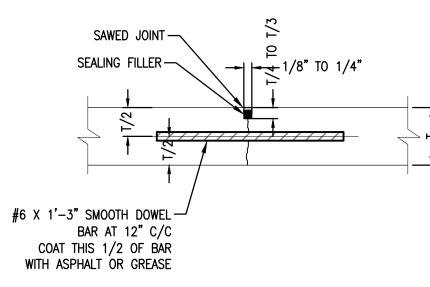
GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

TIED JOINT (TYPE B)

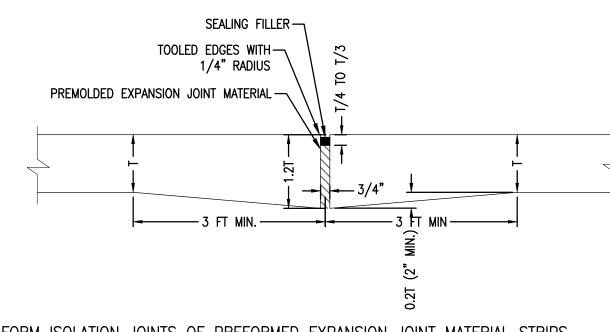


GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE HAS HARDENED.

CONTRACTION JOINT

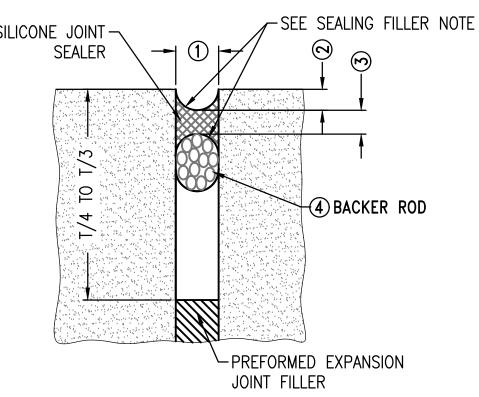


GROOVES IN JOINTS MAY BE FORMED BY: (1) TEMPORARY EMBEDMENT OF A SUITABLE MANDREL, (2) INSTALLATION OF A THIN STRIP OF PREMOULDED JOINT FILLER MATERIAL, (3) SAWING THE PAVEMENT AFTER THE CONCRETE



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



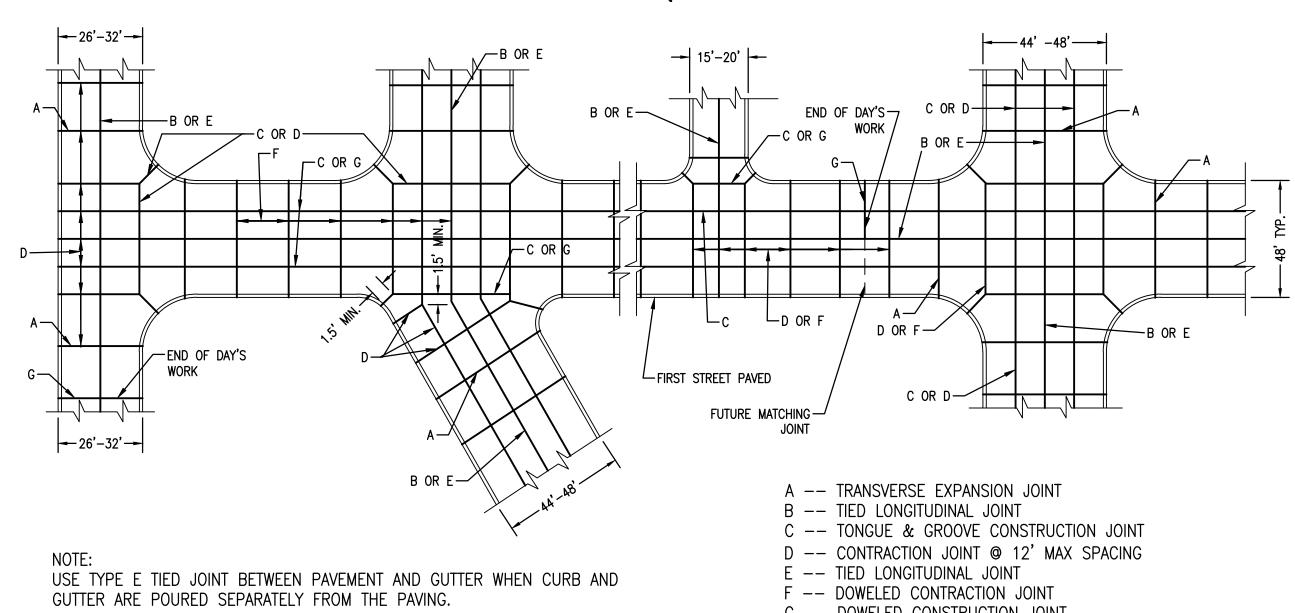
EXPANSION JOINTS / ISOLATION JOINTS SEALING FILLER

JOINT REQUIREMENTS

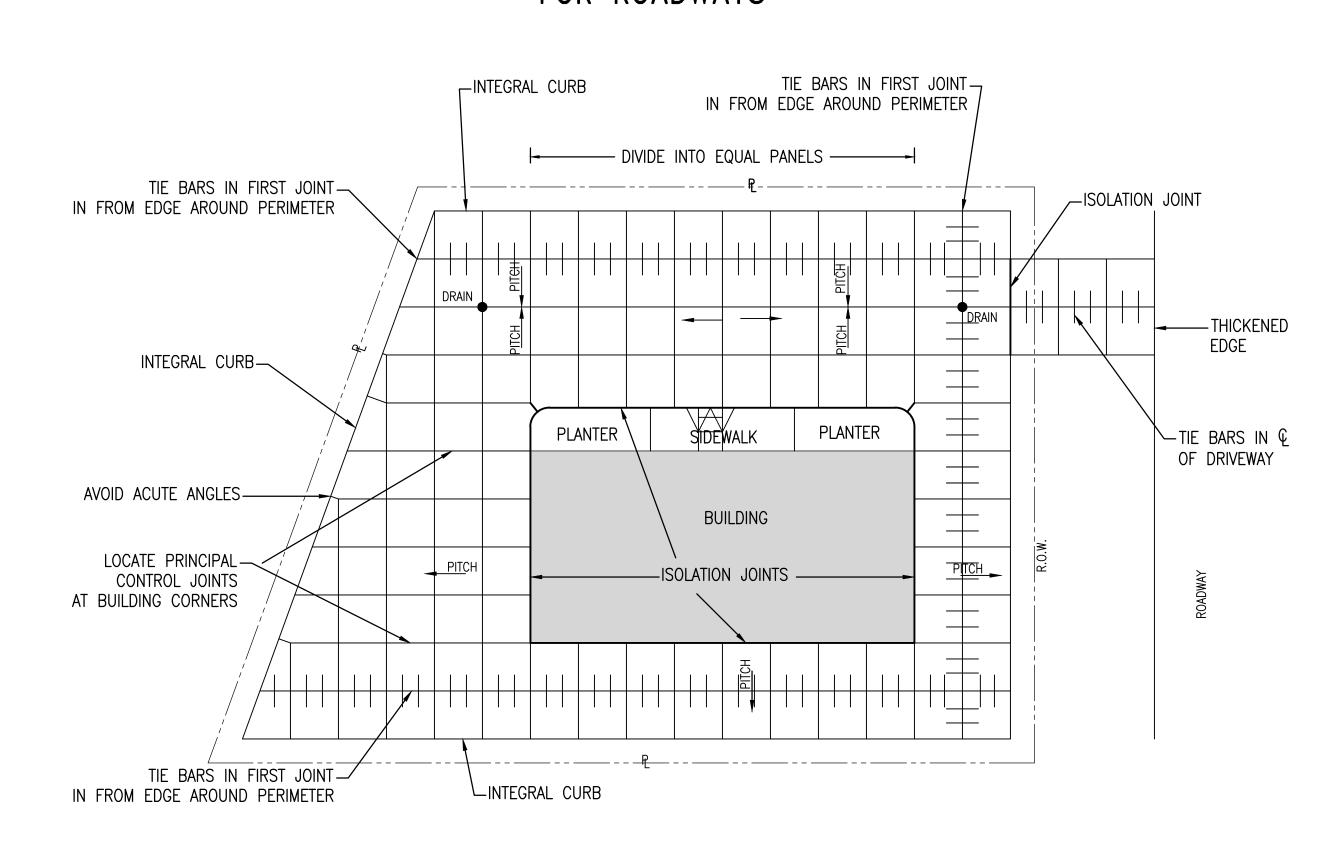
- Avoid odd-shaped slabs. 2. The maximum transverse joint spacing for drives shall be 24 to 30 times the slab thickness or 15 ft,
- whichever is less. Divide the length between the concrete being placed into equally spaced joints. 3. Slabs shall be as square as possible. The length of a panel shall not be more than 25% greater than
- 4. All transverse contraction joints shall be continuous through the curb and have a depth equal to 1/4 to
- 5. In isolation joints, the filler shall be full depth and extend through the curb.
- 6. If there is no curb, longitudinal joints shall be tied with deformed tie bars. 7. Offsets at radius points shall be at least 1.5 ft wide. Joint intersection angles less than 60 degrees
- Minor adjustments in joint location made by shifting or skewing to meet inlets and manholes is allowable.
- 9. Place joints to meet drainage structures, if possible. 10. 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.
- 11. Planned interruptions in paving shall have either a Doweled Construction Joint Type G or a Tongue and
- Groove Construction Joint Type C. 12. If curbs are poured separate from pavement, a Tied Construction Joint Type E shall be used between the
- curb and the pavement. 13. Where slabs 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
- 14. Seal joints according to joint sealing details and specifications.
- 15. Submit joint layout plan to Engineer for approval prior to concrete placement. 16. See specifications 32 13 00 RIGID PAVING, 32 13 73 JOINT SEALANTS, and 32 16 13 CONCRETE CURBS AND GUTTERS for additional requirements.

PAVEMENT THICKNESS, INCHES MAXIMUM SPACING, FEET 4 AND 4.5 8
4 AND 4.5
5-IN OVER ASPHALT PAVING 6
5 AND 5.5 10
6 12
OVER 6 15

JOINT REQUIREMENTS



TYPICAL JOINT LAYOUT DETAILS FOR ROADWAYS



TYPICAL JOINT LAYOUT DETAILS FOR PARKING LOTS

- FUNCTION OF SEALED JOINTS. THE JOINT SHAPE FACTOR IS DEFINED AS
- 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.

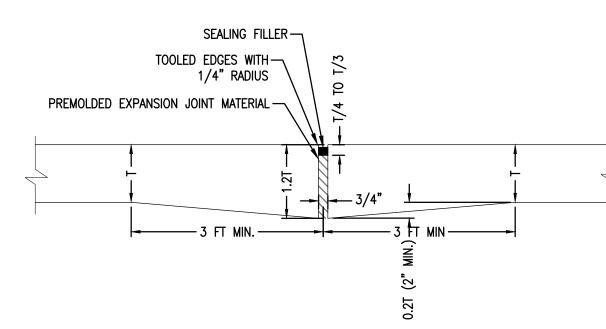
EX	EXPANSION JOINT / ISOLATION JOINT TREATMENT TABLE							
JOINT WIDTH ①	SEALANT RECESS DEPTH 2	SILICONE SEALANT THICKNESS 3	BACKER AND DIAMETER 4					
1/2"	3/8"	1/4"	5/8"					
3/4"	3/8"	3/8"	7/8"					
1"	3/8"	1/2"	1-1/4"					
1-1/2"	1/2"	3/4"	2"					
2"	1/2"	3/4"	2-1/2"					

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.

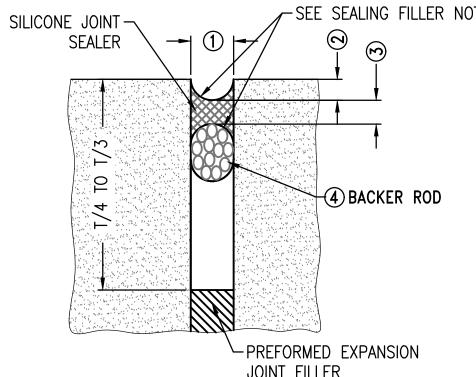
SEALING FILLER TREATMENT TABLE

Scale: NTS

DOWELED CONTRACTION JOINT (TYPE F)



(TYPE H)



SEALING FILLER NOTES





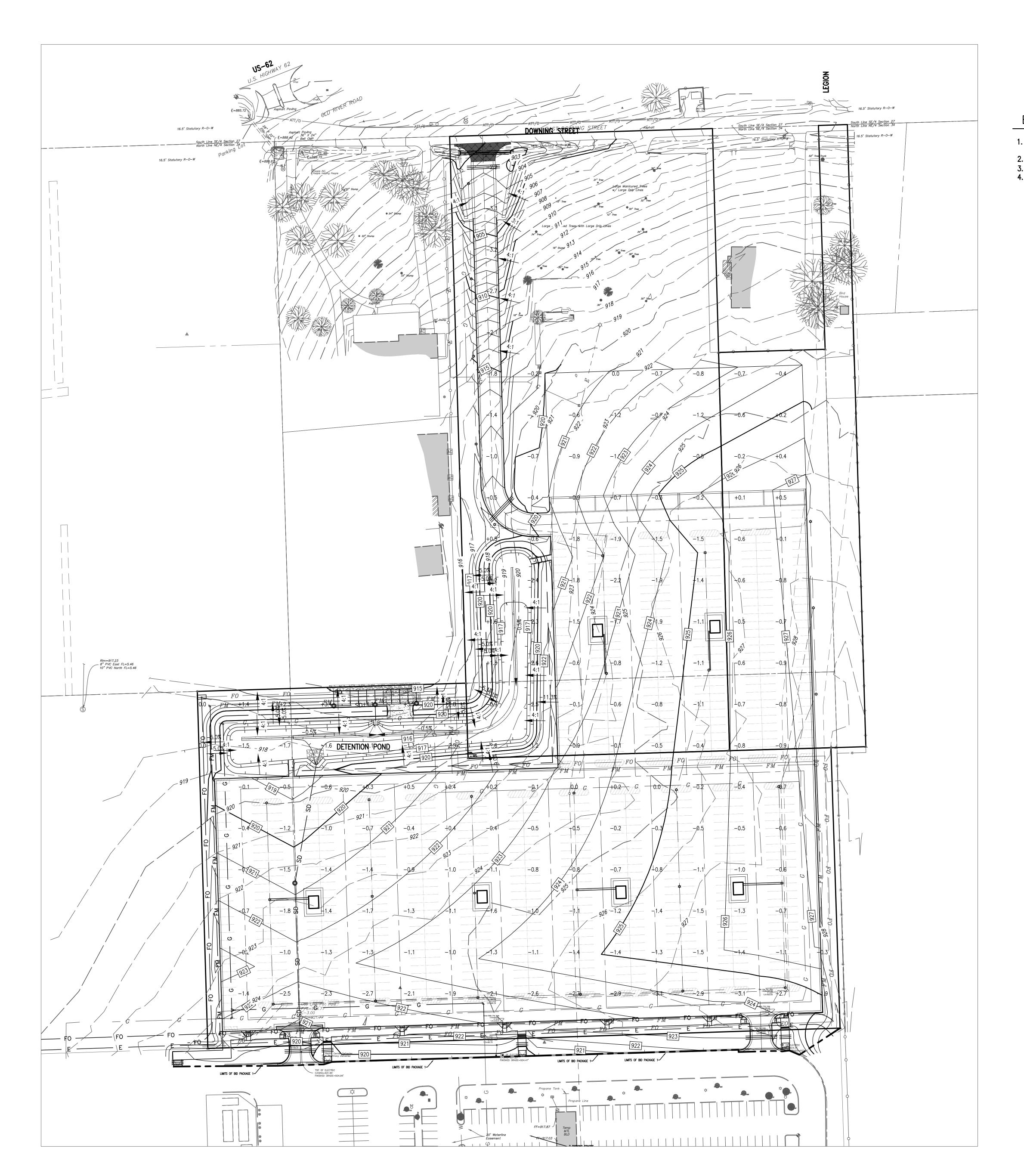
NATION CHEROKE HASTINGS REPI

BID PACKAGE 01 (NORTH PARKING AND ACCESS)

21-08.21 07-29-2022

C3-503

CONCRETE PAVING JOINT DETAILS



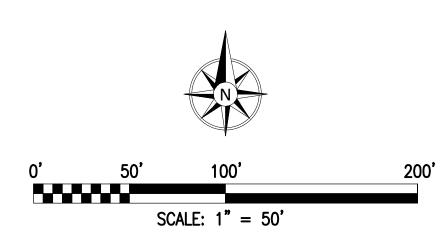
EARTHWORK CALCULATION NOTES

- 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.
- NO ADJUSTMENTS ARE MADE FOR BUILDING PAD(S), STRUCTURES, OR PAVEMENTS.
 NO ADJUSTMENTS ARE MADE FOR UTILITY TRENCH SPOILS.

CUT VOLUME = 20,755 CY FILL VOLUME = 21577 CY

NET VOLUME = 18,577 NET CY CUT

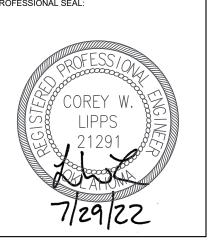


UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT 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.

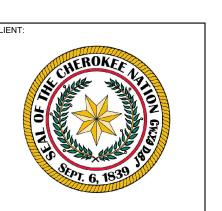
UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY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











HOSPITAL

V. HASTINGS REPLACEMENT

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

REVISIONS

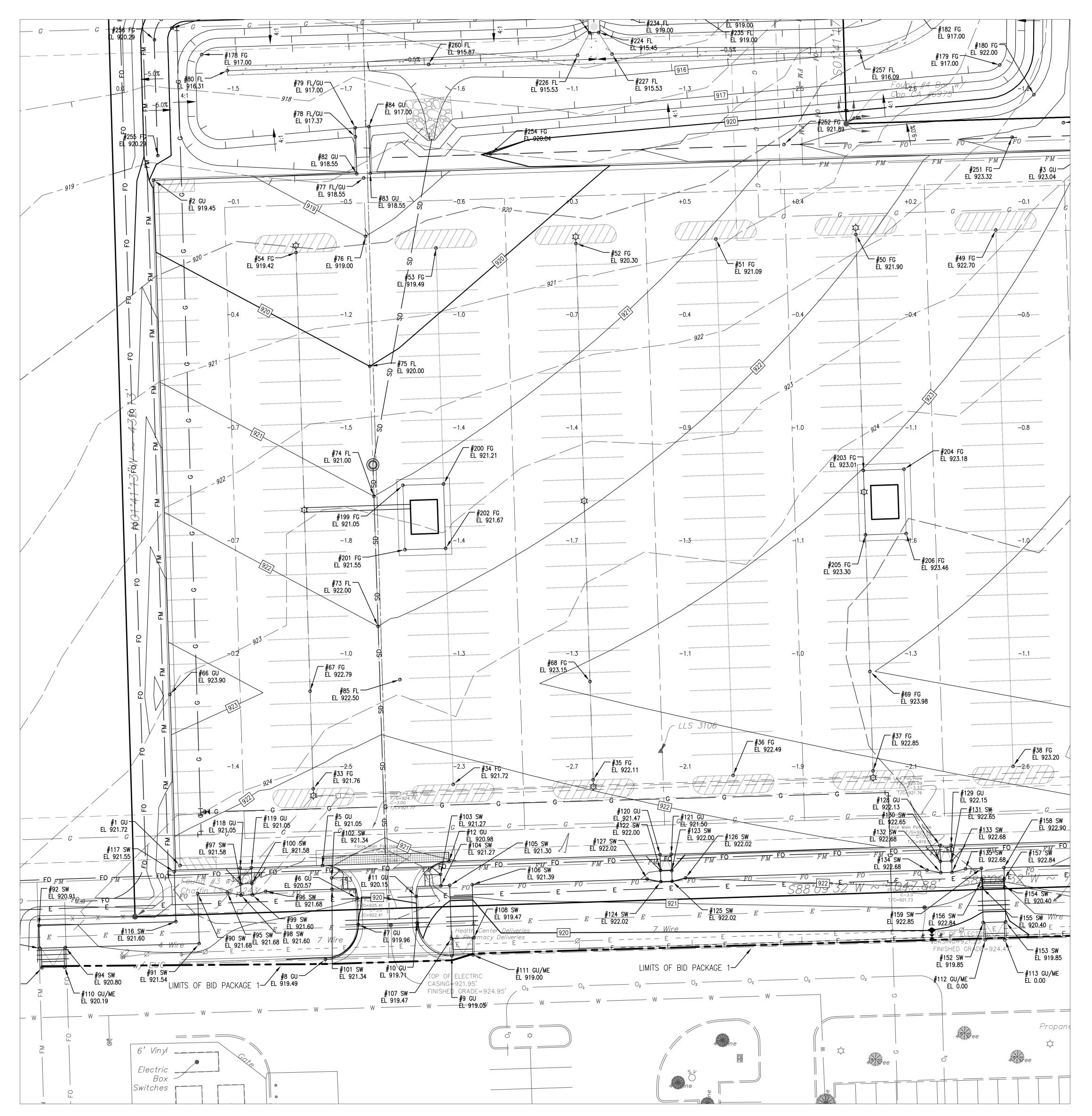
JOB NUMBER: 21-08.21

DATE: 07-29-22

SHEET NUMBER:

C5-113

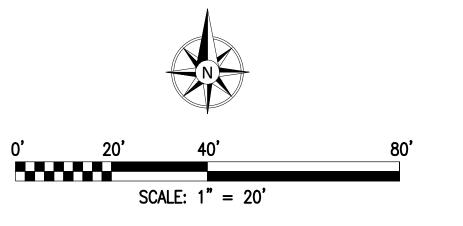
NP GRADING OVERVIEW



UTILITY WARNING:
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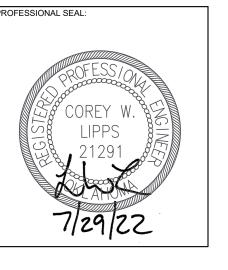
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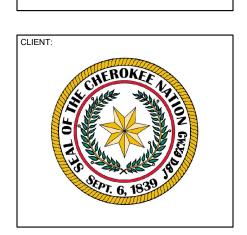






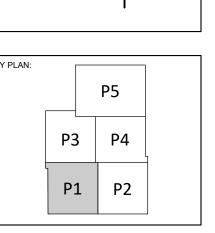






MENT HOSPITAL

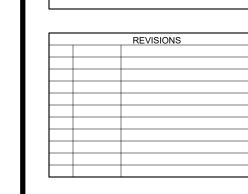
W.W. HASTINGS REPLACE



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



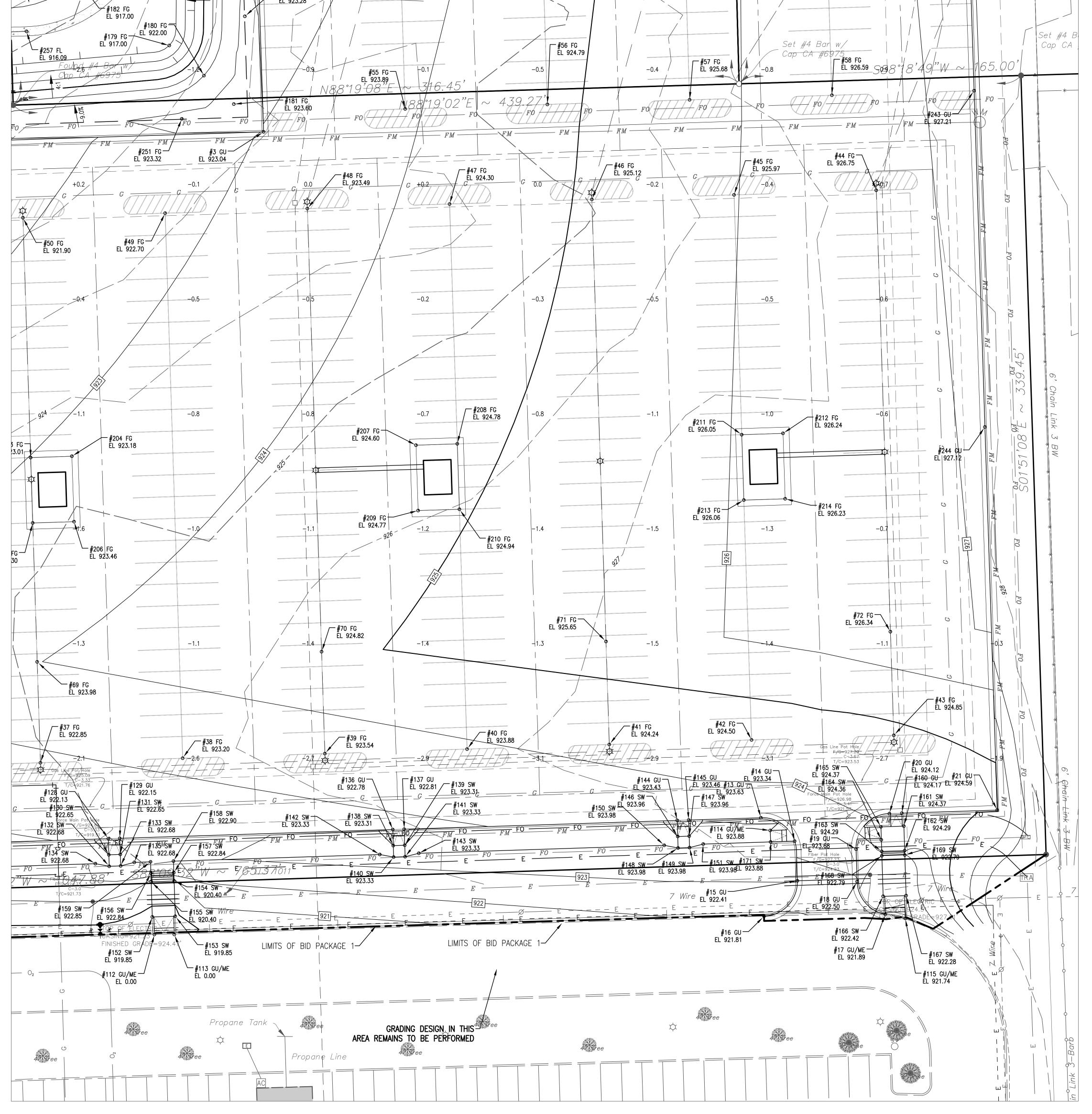
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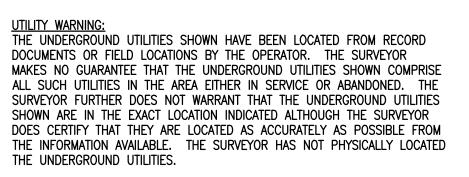
DATE: 07-29-22

SHEET NUMBER: C5-114

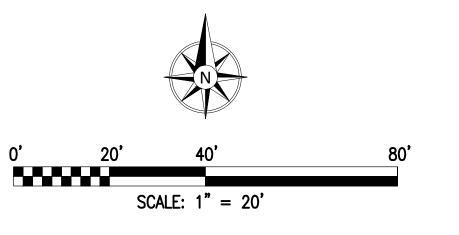
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NP1 GRADING PLAN

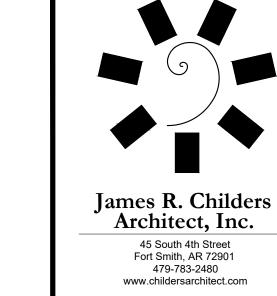


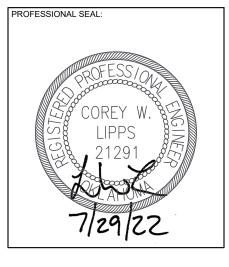


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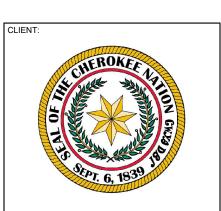






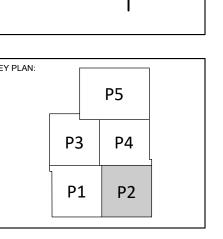






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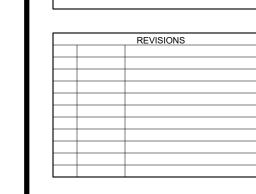
W. HASTINGS REPLACEMENT F



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

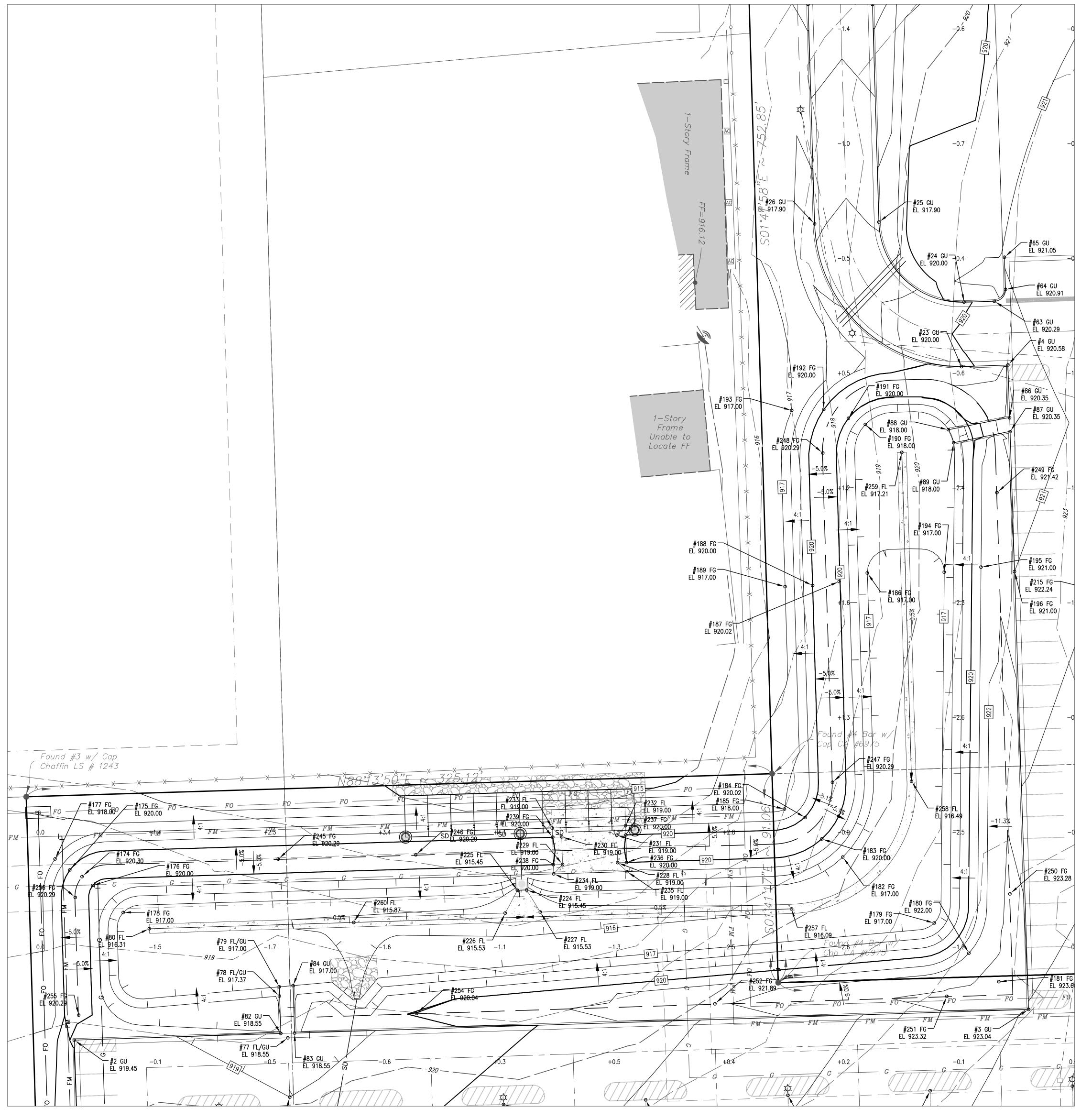


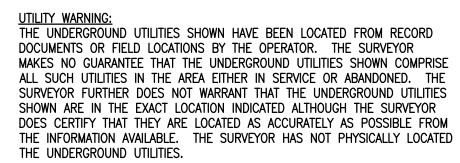
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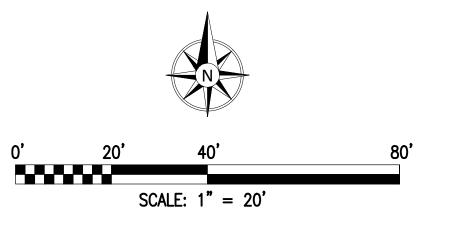
NP2 GRADING PLAN





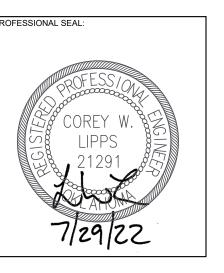
UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY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

BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.

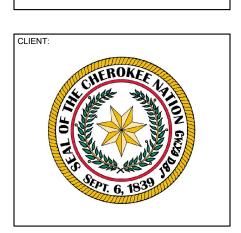






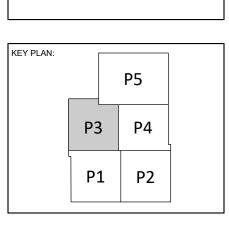






HOSPITAL

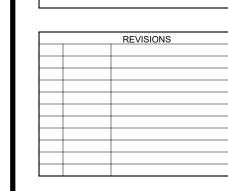
W.W. HASTINGS REPLACEMEN



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



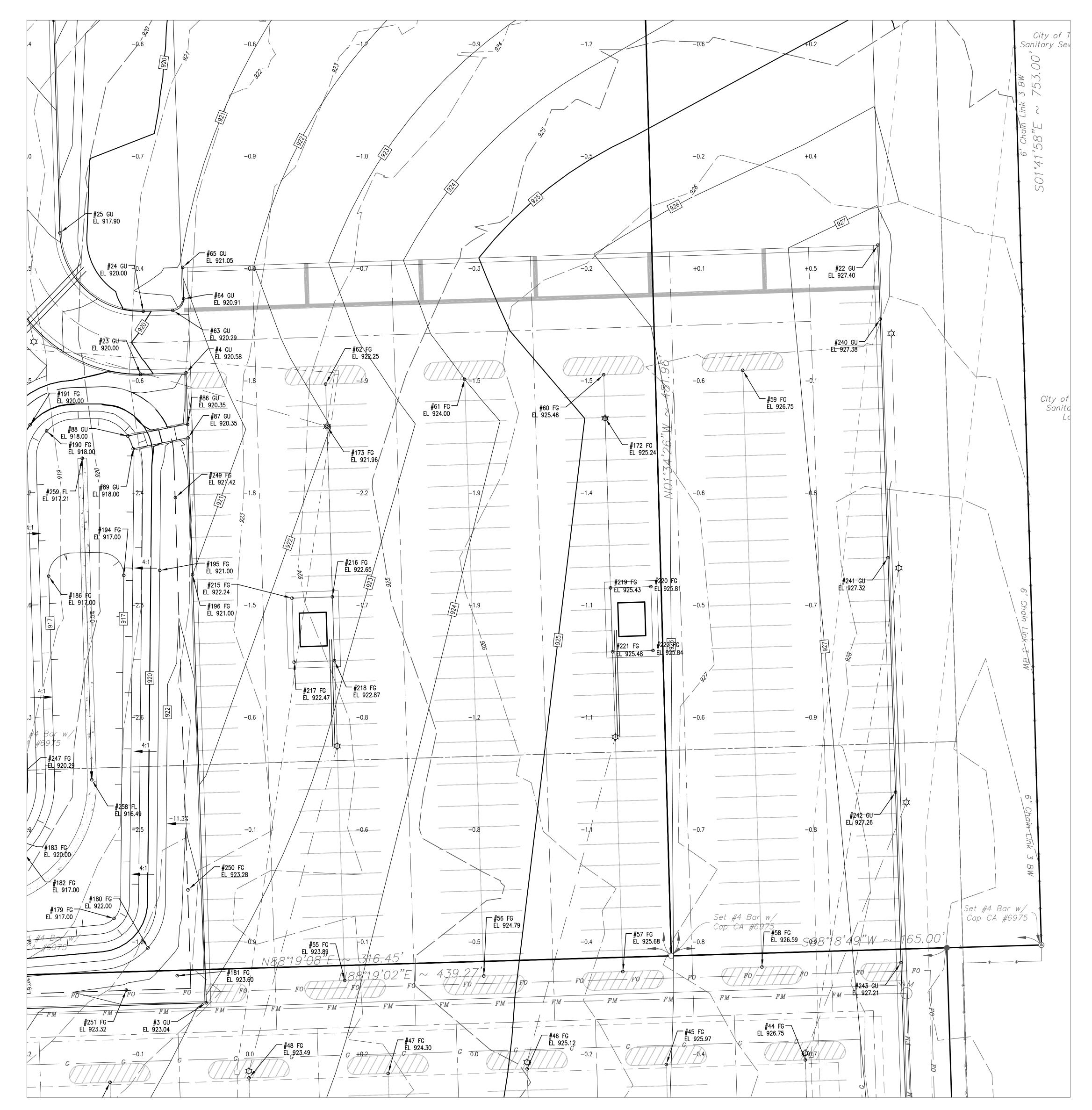
JOB NUMBER: 21-08.21

DATE: 07-29-22

SHEET NUMBER: C5-116

SHEET TITLE:

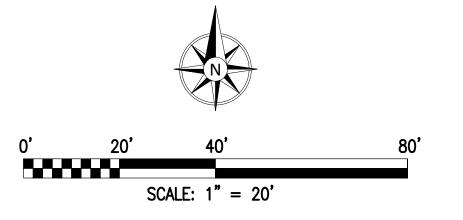
NP3 GRADING PLAN



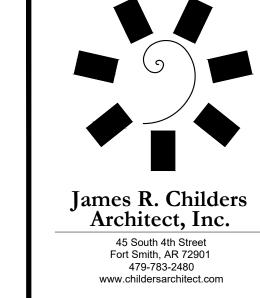
UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT 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.

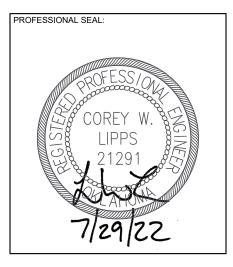
UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY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

BE IMMEDIATELY BROUGHT TO THE ENGINEER'S AND SURVEYOR'S ATTENTION.









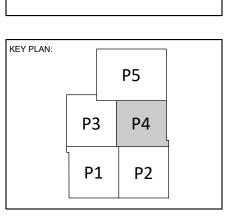




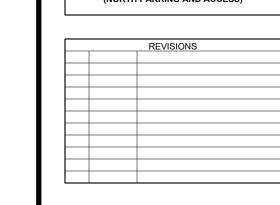
E NATION
ACEMENT HOSPITAL
OKLAHOMA

CHEROKEE NATION
W.W. HASTINGS REPLACEMEN

TAHLEQUAH, OKLAHOMA







JOB NUMBER: 21-08.21

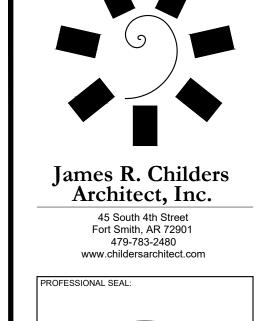
DATE: 07-29-22

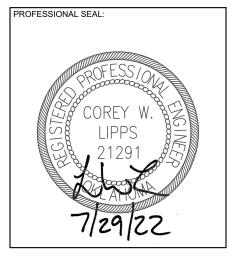
SHEET NUMBER: C5-117

NP4 GRADING PLAN

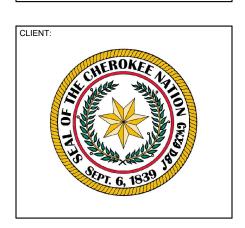


SCALE: 1" = 20'



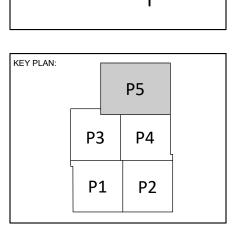






HOSPITAL

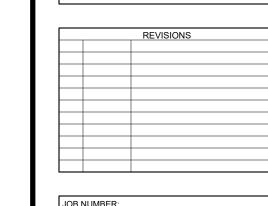
V.W. HASTINGS REPLACEMENT



PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)



21-08.21

DATE: 07-29-22

SHEET NUMBER: C5-118

SHEET TITLE:

NP5 GRADING PLAN

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.

Point Table							
Point #	Elevation	Northing	Easting	Description			
1	921.72	346345.50	2872420.93	GU			
2	919.45	346648.78	2872409.18	GU			
3	923.04	346662.14	2872824.96	GU			
4	920.58	346942.85	2872815.94	GU			
5	921.05	346345.53	2872483.96	GU			
6	920.57	346331.01	2872499.40	GU			
7	919.96	346319.37	2872499.81	GU			
8	919.49	346303.90	2872485.26	GU			
9	919.05	346305.55	2872541.24	GU			
10	919.71	346320.06	2872525.80	GU			
11	920.15	346331.85	2872525.42	GU			
12	920.98	346347.32	2872539.93	GU			
13	923.63	346363.45	2873041.67	GU			
14	923.34	346353.25	2873056.37	GU			
15	922.41	346335.98	2873057.56	GU			
16	921.81	346320.50	2873043.02	GU			
17	921.89	346321.38	2873095.84	GU/ME			
18	922.50	346335.64	2873083.59	GU			
19	923.68	346349.78	2873083.13	GU			
20	924.12	346365.25	2873097.64	GU			
21	924.59	346366.76	2873144.62	GU			
22	927.40	346999.78	2873124.27	GU			
23	920.00	346942.18	2872795.71	GU			
24	920.00	346970.28	2872796.87	GU			
25	917.90	347005.16	2872759.73	GU			
26	917.90	347004.33	2872731.74	GU			
27	916.26	347100.00	2872728.90	GU			
28	916.28	347100.00	2872756.91	GU			
29	900.30	347395.60	2872720.13	GU			
30	900.31	347396.89	2872748.10	GU			

Point Table						Point To	ıble		
t #	Elevation	Northing	Easting	Description	Point #	Elevation	Northing	Easting	De
	898.86	347414.99	2872699.41	GU	61	924.00	346939.99	2872940.10	
	900.89	347417.47	2872767.37	GU	62	922.25	346937.84	2872878.13	
	921.76	346379.41	2872479.87	FG	63	920.29	346970.67	2872810.05	
	921.72	346381.40	2872541.84	FG	64	920.91	346975.83	2872814.88	
	922.11	346383.40	2872603.81	FG	65	921.05	346989.82	2872814.43	
	922.49	346385.39	2872665.77	FG	66	923.90	346421.16	2872416.33	
	922.85	346387.38	2872727.74	FG	67	922.79	346422.64	2872478.48	
	923.20	346389.37	2872789.71	FG	68	923.15	346426.91	2872602.41	
	923.54	346391.36	2872851.68	FG	69	923.98	346431.34	2872726.33	
	923.88	346393.35	2872913.65	FG	70	924.82	346435.77	2872850.25	
	924.24	346395.35	2872975.61	FG	71	925.65	346440.19	2872974.17	
	924.50	346397.34	2873037.58	FG	72	926.34	346444.46	2873098.10	
	924.85	346399.33	2873099.55	FG	73	922.00	346451.34	2872508.57	
	926.75	346636.71	2873091.92	FG	74	921.00	346508.88	2872506.72	
	925.97	346634.72	2873029.95	FG	75	920.00	346566.42	2872504.87	
	925.12	346632.72	2872967.98	FG	76	919.00	346623.95	2872503.03	
	924.30	346630.73	2872906.02	FG	77	918.55	346649.77	2872502.20	
	923.49	346628.74	2872844.05	FG	78	917.37	346667.98	2872498.53	
	922.70	346626.75	2872782.08	FG	79	917.00	346671.99	2872498.48	╁
	921.90	346624.76	2872720.11	FG					_
	921.09	346622.76	2872658.14	FG	80	916.31	346697.30	2872441.84	┢
	920.30	346620.77	2872596.18	FG	82	918.55	346651.67	2872499.13	
	919.49	346618.78	2872534.21	FG	83	918.55	346651.86	2872505.13	-
	919.42	346616.79	2872472.24	FG	84	917.00	346672.52	2872504.47	_
	923.89	346672.15	2872886.68	FG	85	922.50	346427.75	2872518.23	_
	924.79	346674.12	2872948.64	FG	86	920.35	346919.86	2872816.68	╀
	925.68	346676.12	2873010.61	FG	87	920.35	346913.86	2872816.87	\vdash
	926.59	346678.11	2873072.58	FG	88	918.00	346914.68	2872790.03	\vdash
٦	926.75	346943.97	2873064.03	FG	89	918.00	346909.03	2872792.36	\vdash
٦	925.46	346941.98	2873002.07	FG	90	921.68 921.54	346333.08 346310.95	2872428.67 2872429.38	igspace

Point #	Elevation	Northing	Easting	Description
61	924.00	346939.99	2872940.10	FG
62	922.25	346937.84	2872878.13	FG
63	920.29	346970.67	2872810.05	GU
64	920.91	346975.83	2872814.88	GU
65	921.05	346989.82	2872814.43	GU
66	923.90	346421.16	2872416.33	GU
67	922.79	346422.64	2872478.48	FG
68	923.15	346426.91	2872602.41	FG
69	923.98	346431.34	2872726.33	FG
70	924.82	346435.77	2872850.25	FG
71	925.65	346440.19	2872974.17	FG
72	926.34	346444.46	2873098.10	FG
73	922.00	346451.34	2872508.57	FL
74	921.00	346508.88	2872506.72	FL
75	920.00	346566.42	2872504.87	FL
76	919.00	346623.95	2872503.03	FL
77	918.55	346649.77	2872502.20	FL/GU
78	917.37	346667.98	2872498.53	FL/GU
79	917.00	346671.99	2872498.48	FL/GU
80	916.31	346697.30	2872441.84	FL
82	918.55	346651.67	2872499.13	GU
83	918.55	346651.86	2872505.13	GU
84	917.00	346672.52	2872504.47	GU
85	922.50	346427.75	2872518.23	FL
86	920.35	346919.86	2872816.68	GU
87	920.35	346913.86	2872816.87	GU
88	918.00	346914.68	2872790.03	GU
89	918.00	346909.03	2872792.36	GU
90	921.68	346333.08	2872428.67	SW
91	921.54	346310.95	2872429.38	SW

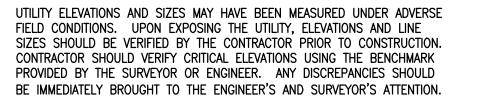
Point Table				
	Elevation	Northing	Easting	Description
	920.91	346318.89	2872358.45	SW
	920.79	346308.87	2872358.77	SW
	920.80	346309.23	2872370.10	SW
	921.68	346333.50	2872441.83	SW
	921.68	346334.04	2872458.82	SW
	921.58	346337.36	2872447.70	SW
	921.60	346332.36	2872447.87	SW
	921.60	346332.52	2872452.86	SW
	921.58	346337.52	2872452.70	SW
	921.34	346334.99	2872488.18	SW
	921.34	346339.99	2872488.02	SW
	921.27	346341.54	2872536.24	SW
	921.27	346336.54	2872536.40	SW
	921.30	346336.66	2872540.27	SW
	921.39	346336.98	2872550.27	SW
	919.47	346313.21	2872541.03	SW
	919.47	346313.54	2872551.02	SW
	920.17	346300.21	2872359.72	GU/ME
	920.19	346300.50	2872369.72	GU/ME
	919.00	346305.87	2872550.63	GU/ME
			-	,
	0.00	346312.61	2872777.41	GU/ME
	0.00	346312.61	2872786.07	GU/ME
	923.88	346357.91	2873045.73	GU/ME
	921.74	346319.60	2873104.57	GU/ME
	921.60	346320.65	2872419.06	SW
	921.55	346342.75	2872418.35	SW
	921.05	346344.35	2872447.48	GU
	921.05	346344.51	2872452.48	GU
	921.47	346350.33	2872633.38	GU
	921.50	346350.49	2872638.38	GU

Point Table							
Point #	Elevation	Northing	Easting	Description			
152	919.85	346320.25	2872776.49	SW			
153	919.85	346320.55	2872786.49	SW			
154	920.40	346335.89	2872786.00	SW			
155	920.40	346335.57	2872776.00	SW			
156	922.84	346339.23	2872775.88	SW			
157	922.84	346339.56	2872785.88	SW			
158	922.90	346344.55	2872785.72	SW			
159	922.85	346344.23	2872775.72	SW			
160	924.17	346365.43	2873103.10	GU			
161	924.37	346359.78	2873103.94	SW			
162	924.29	346349.12	2873104.29	SW			
163	924.29	346348.80	2873094.29	SW			
164	924.36	346353.80	2873094.13	SW			
165	924.37	346359.46	2873093.95	SW			
166	922.42	346329.23	2873094.92	SW			
167	922.28	346329.53	2873104.92	SW			
168	922.79	346346.89	2873094.35	SW			
169	922.79	346347.21	2873104.35	SW			
171	923.88	346352.92	2873045.89	SW			
172	925.24	346922.83	2873002.68	FG			
173	921.96	346919.00	2872878.74	FG			
174	920.30	346720.00	2872412.56	FG			
175	920.00	346722.90	2872407.22	FG			
176	920.00	346716.16	2872417.17	FG			
177	918.00	346727.67	2872400.80	FG			
178	917.00	346704.38	2872430.47	FG			
179	917.00	346699.77	2872783.87	FG			
180	922.00	346686.65	2872798.96	FG			
181	923.60	346674.24	2872812.02	FG			
182	917.00	346728.52	2872743.98	FG			

	Point To	ıble					Point To	ıble	
Elevation	Northing	Easting	Description		Point #	Elevation	Northing	Easting	Descripti
920.00	346736.41	2872734.85	FG		213	926.06	346501.78	2873034.22	FG
920.02	346745.75	2872727.64	FG		214	926.23	346502.36	2873052.22	FG
918.00	346749.44	2872718.60	FG		215	922.24	346842.47	2872863.19	FG
917.00	346852.28	2872754.70	FG		216	922.65	346843.04	2872881.18	FG
920.02	346848.57	2872742.42	FG		217	922.47	346813.98	2872864.11	FG
920.00	346846.81	2872730.85	FG		218	922.87	346814.56	2872882.10	FG
917.00	346846.33	2872718.86	FG		219	925.43	346847.03	2873005.12	FG
918.00	346917.00	2872753.82	FG		220	925.81	346847.61	2873023.11	FG
920.00	346919.67	2872746.44	FG		221	925.48	346818.54	2873006.03	FG
920.00	346923.46	2872735.72	FG		222	925.84	346819.12	2873024.02	FG
917.00	346923.09	2872721.75	FG		224	915.45	346714.16	2872606.24	FL
917.00	346852.64	2872788.22	FG		225	915.45	346714.04	2872602.25	FL
921.00	346854.82	2872804.23	FG		226	915.53	346704.10	2872596.91	FL
921.00	346852.90	2872818.83	FG		227	915.53	346704.57	2872612.18	FL
924.00	347149.72	2873120.12	FG		228	919.00	346726.06	2872645.90	FL
920.00	347139.72	2872808.95	FG		229	919.00	346725.32	2872621.91	FL
921.05	346513.76	2872519.57	FG		230	919.00	346737.31	2872621.54	FL
921.21	346514.33	2872537.57	FG		231	919.00	346738.05	2872645.52	FL
921.55	346485.27	2872520.49	FG		232	919.00	346742.18	2872649.40	FL
921.67	346485.85	2872538.48	FG		233	919.00	346741.19	2872617.41	FL
923.01	346520.31	2872723.47	FG		234	919.00	346721.20	2872618.03	FL
923.18	346520.89	2872741.46	FG		235	919.00	346722.19	2872650.02	FL
923.30	346491.82	2872724.38	FG		236	920.00	346726.18	2872649.89	FG
923.46	346492.40	2872742.38	FG		237	920.00	346738.18	2872649.52	FG
924.60	346525.71	2872891.38	FG		238	920.00	346725.19	2872617.91	FG
924.78	346526.29	2872909.37	FG		239	920.00	346737.19	2872617.54	FG
924.77	346497.22	2872892.30	FG		240	927.38	346966.80	2873125.33	GU
924.94	346497.80	2872910.29	FG		241	927.32	346860.51	2873128.75	GU
926.05	346530.27	2873033.31	FG		242	927.26	346756.06	2873132.11	GU
926.24	346530.85	2873051.30	FG		243	927.21	346680.10	2873134.55	GU
	•	•		•		•		•	•——

			Point Table						
	Description	Point	#	Elevation	Northing	Easting	Descriptio		
22	FG	244		927.12	346533.63	2873139.26	GU		
22	FG	245)	920.29	346727.65	2872498.03	FG		
19	FG	246	1	920.29	346729.51	2872557.94	FG		
18	FG	247	•	920.29	346761.11	2872739.54	FG		
11	FG	248		920.29	346904.53	2872735.28	FG		
10	FG	249	١	921.42	346887.28	2872811.20	FG		
12	FG	250)	923.28	346712.47	2872816.82	FG		
11	FG	251		923.32	346667.84	2872789.35	FG		
)3	FG	252		921.89	346664.59	2872688.28	FG		
)2	FG	254		920.04	346660.41	2872558.33	FG		
24	FL	255)	920.29	346659.67	2872411.08	FG		
25	FL	256	,	920.29	346710.93	2872409.57	FG		
91	FL	257	,	916.09	346705.96	2872721.66	FL		
18	FL	258		916.49	346761.53	2872773.96	FL		
90	FL	259		917.21	346904.81	2872769.71	FL		
91	FL	260)	915.87	346700.05	2872530.90	FL		
54	FL	•							
52	FL								
10	FL								
41	FL								
)3	FL								
20									

UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD
THE SURVEYOR 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.



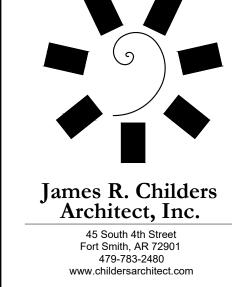


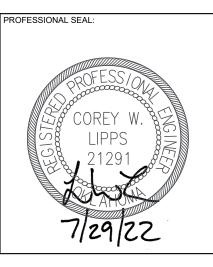
LEGEND

ME = MATCH EXISTING

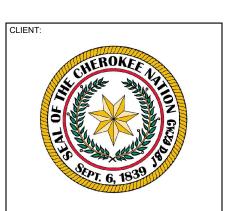
GU = GUTTER

FG = FUTURE GRADE FL = FLOWLINE

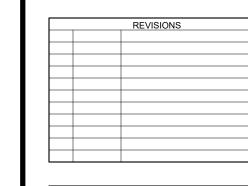








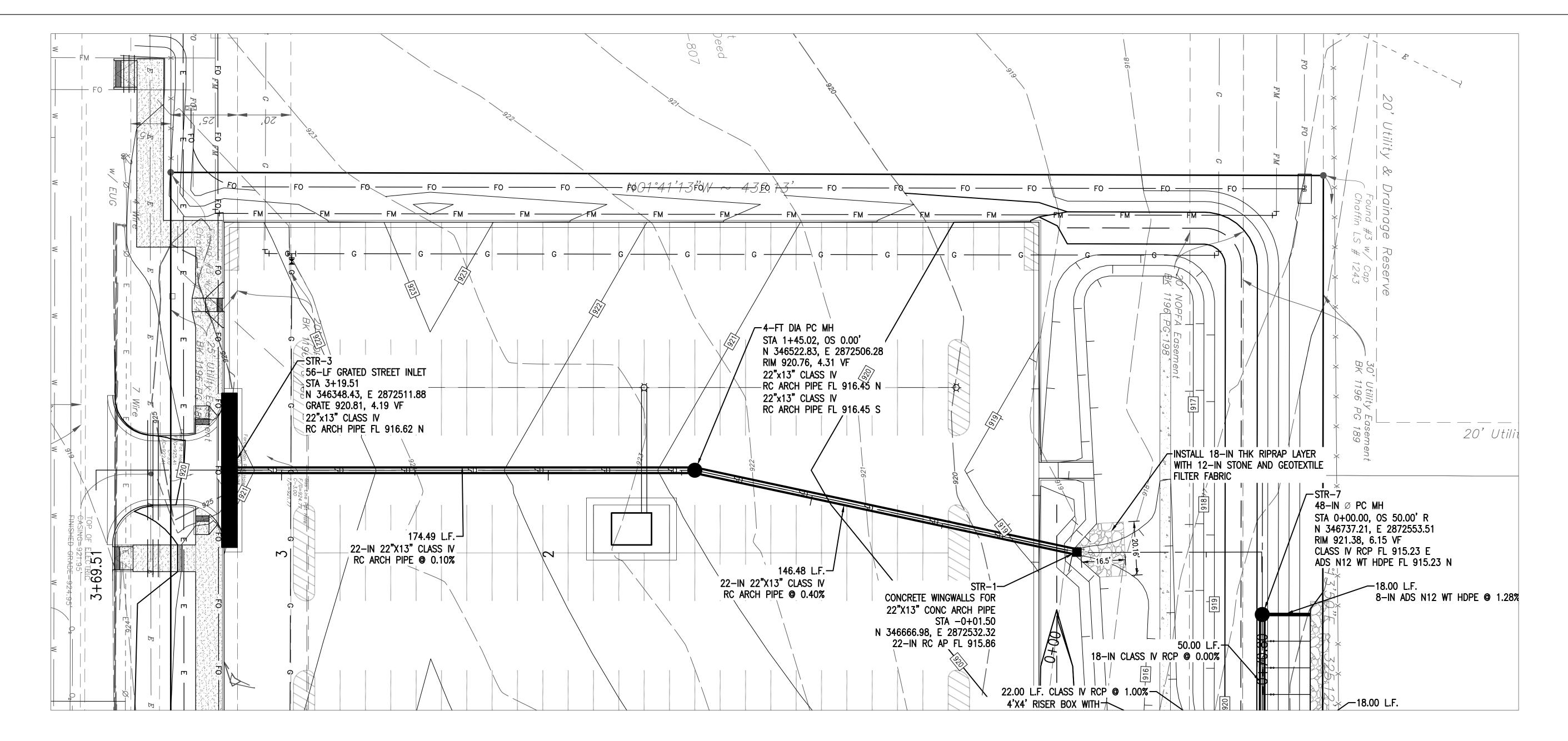
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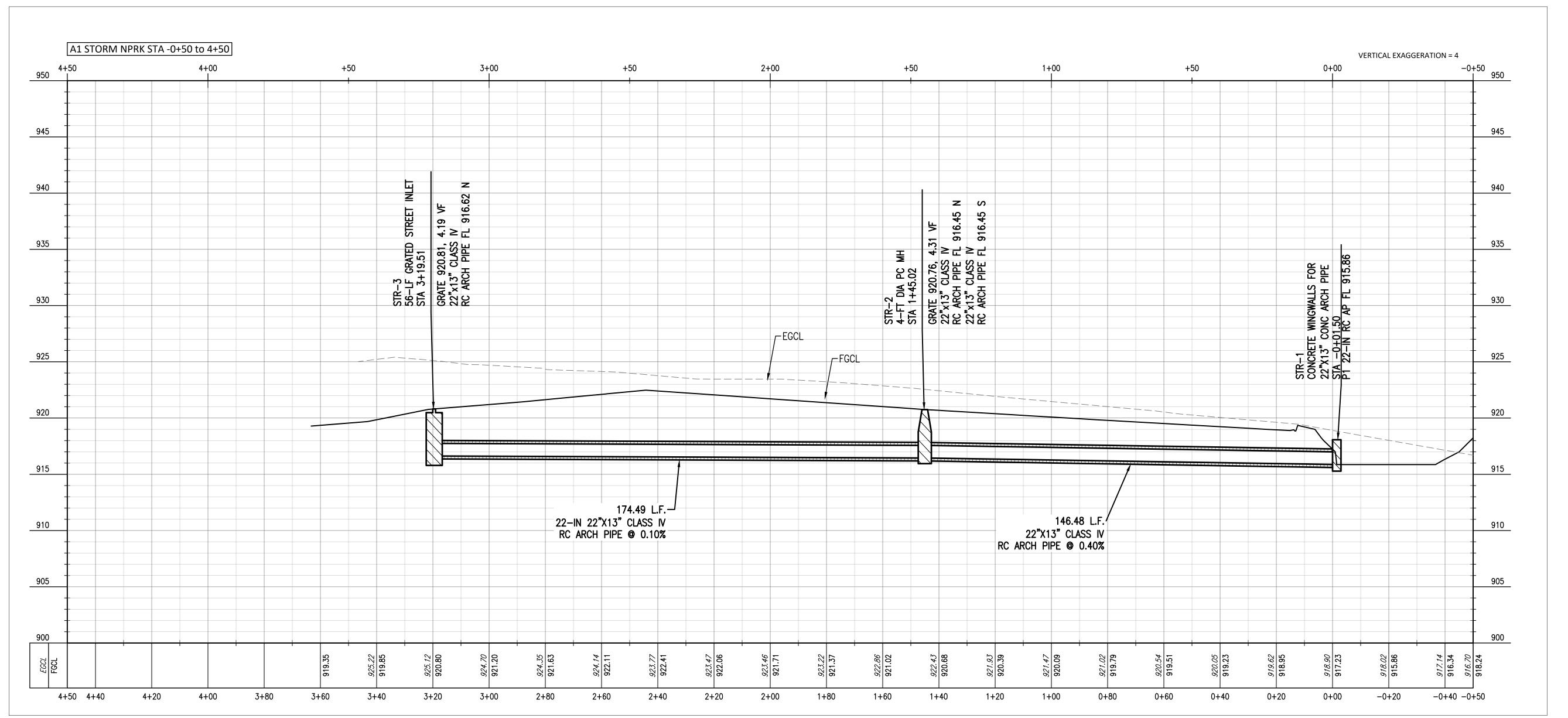


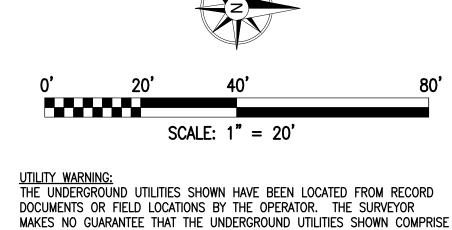
21-08.21 07-29-22

C5-210

NP COORDINATES AND **ELEVATIONS TABLE**



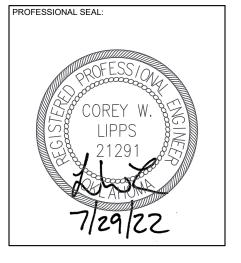




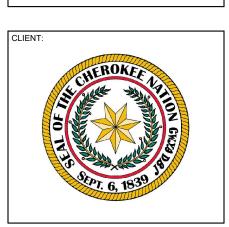
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND 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.



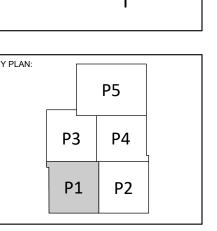


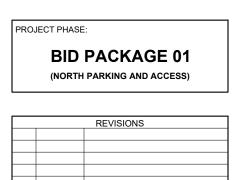


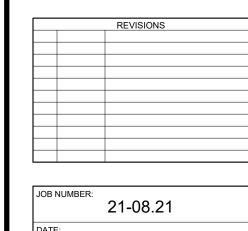


E NATION ACEMENT HOSPITAL OKLAHOMA

CHEROKEE NATION W.W. HASTINGS REPLACEMENT

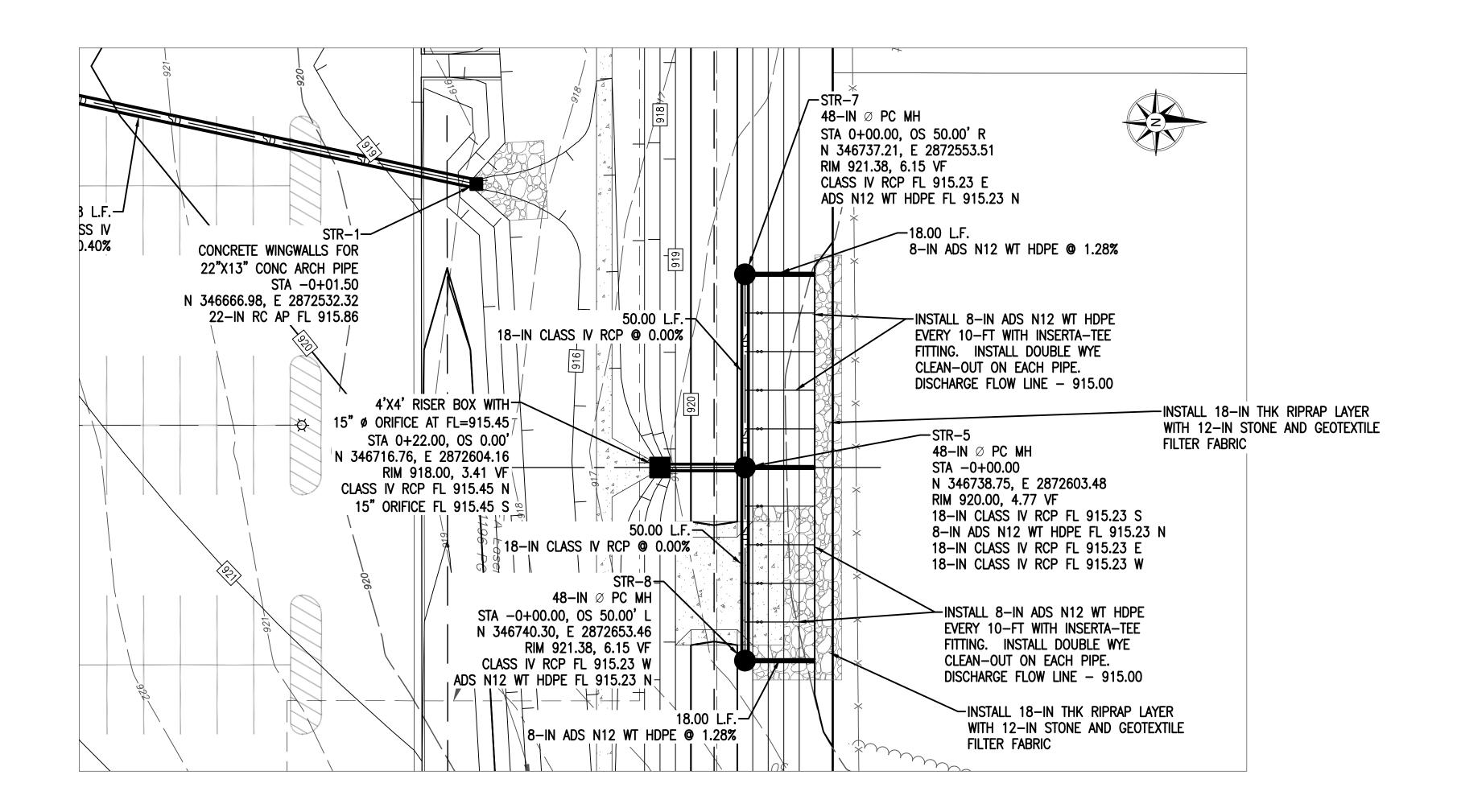


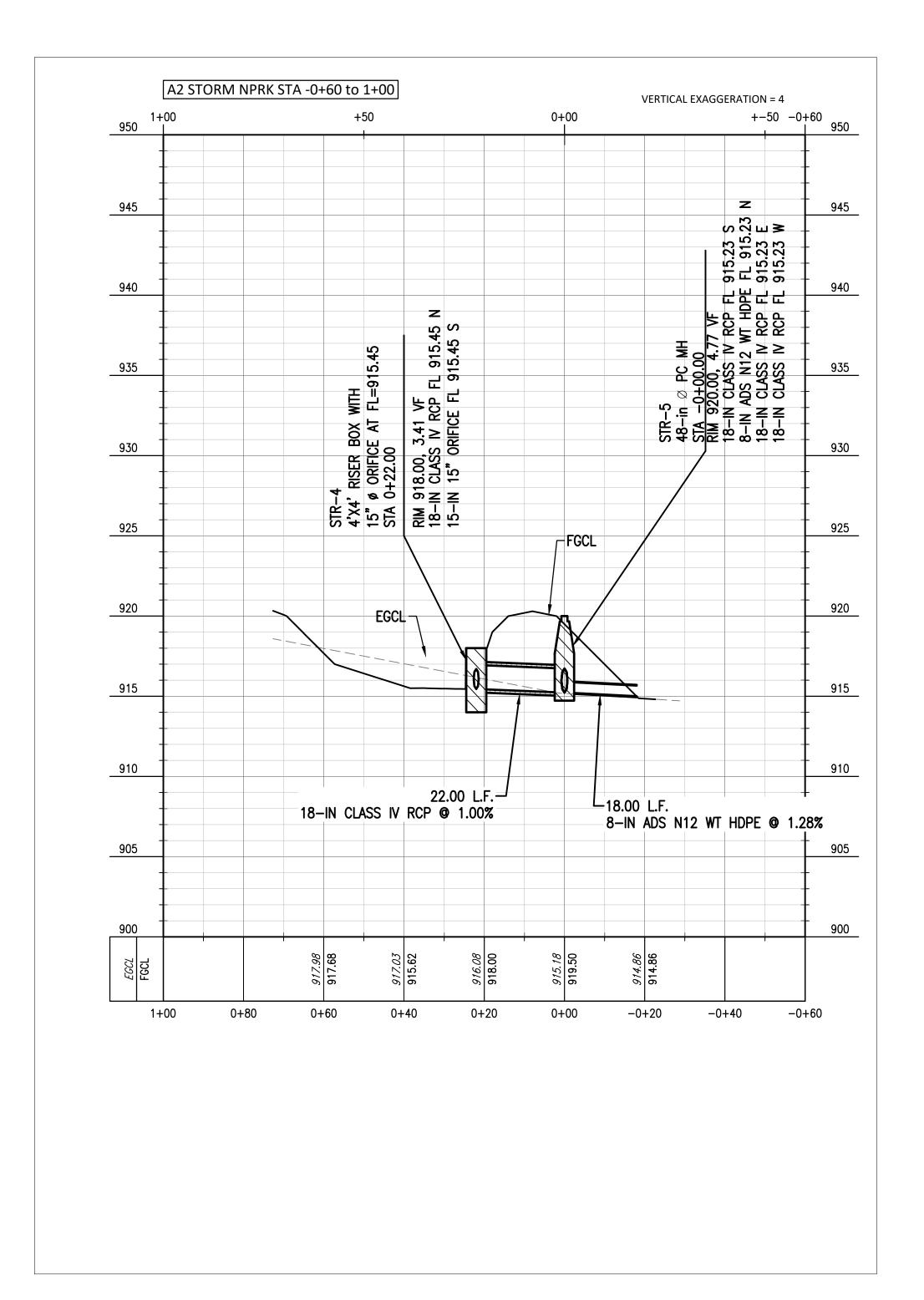




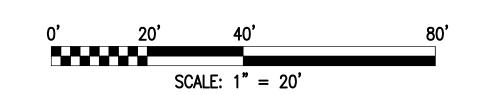
DATE: 07-29-22
SHEET NUMBER: C6-201

NP STORM PLAN &
PROFILE





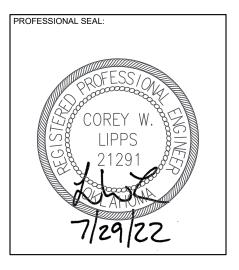




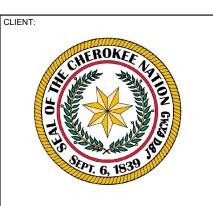
UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT 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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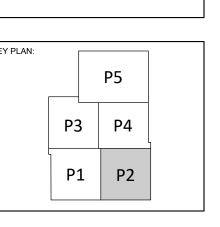






E NATION ACEMENT HOSPITAL OKLAHOMA

CHEROKEE NATION '.W. HASTINGS REPLACEMEN



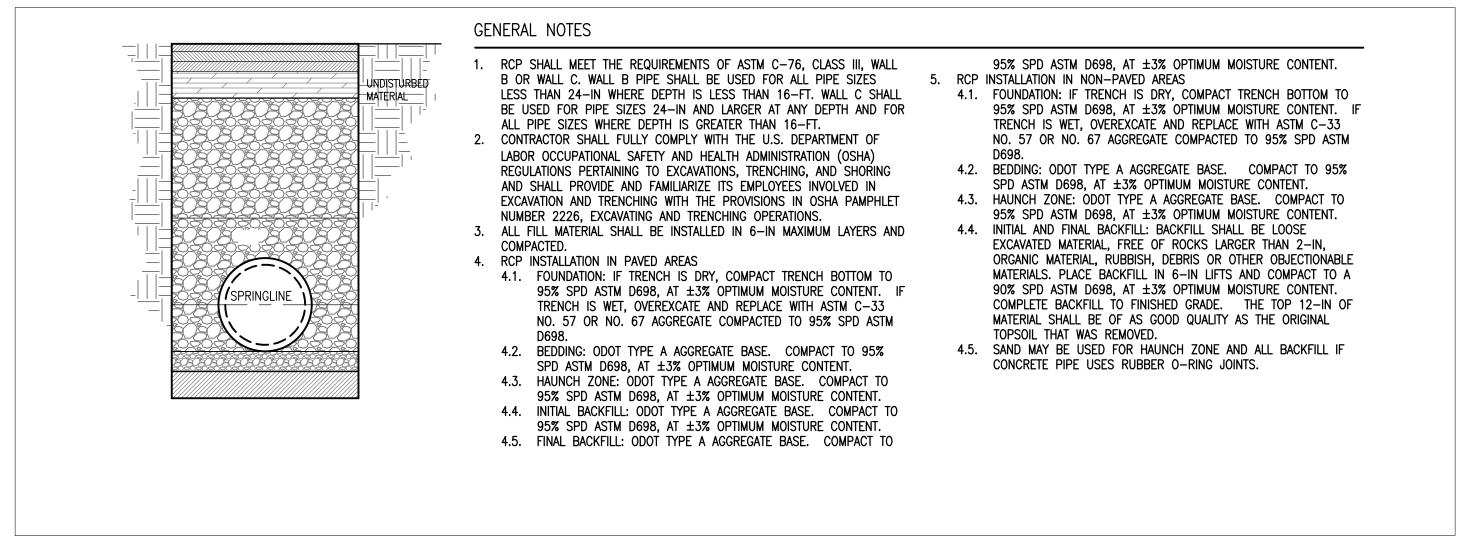
PROJE	CT PHASE:	
	BID PACK	AGE 01
	(NORTH PARKING A	AND ACCESS)
	REVISION	NS

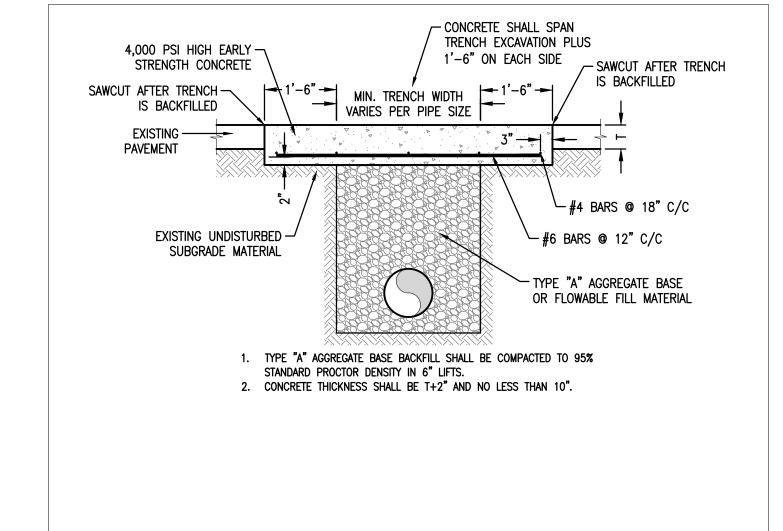
	REVISIONS
JOB NUMBER:	
	21-08.21
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07-29-22
SHEET NUMBER:

C6-202

NP STORM PLAN & PROFILE

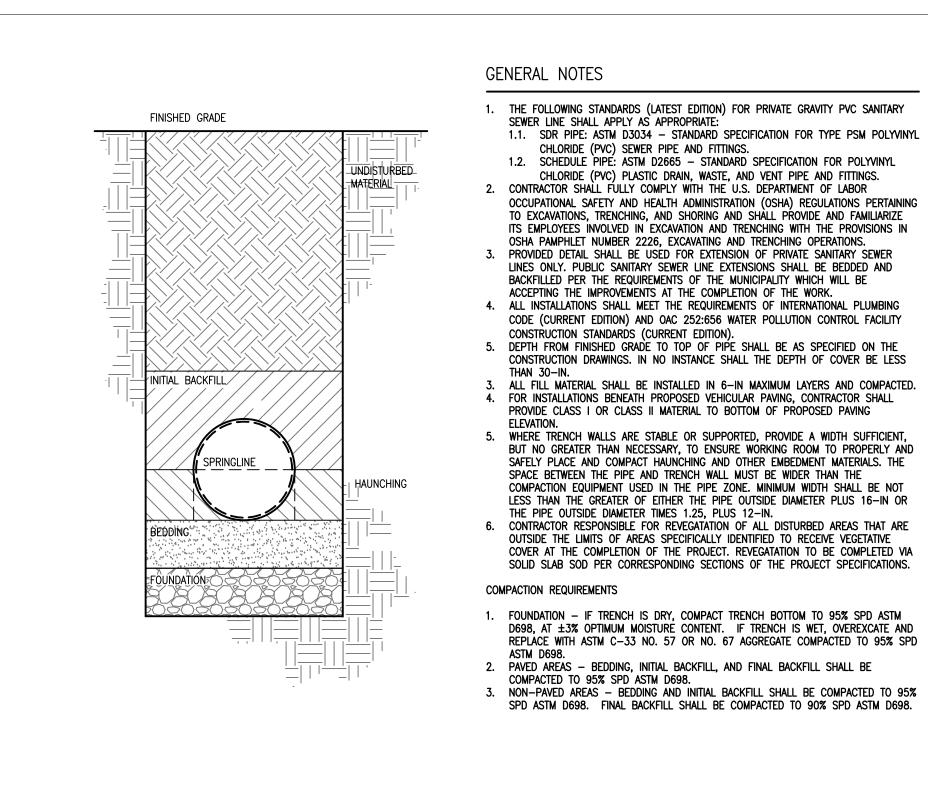




STORM PIPE TRENCH DETAIL - RCP

Scale: NTS

PAVEMENT CUT REPAIR FOR UTILITY TRENCH



Soils and Ag	ggregates for Foundat	tion and Pipe-Zone E	Embedment per ASTM	D2321	
Soil Class (A)	Class I (B)	Class II	Class III	Class IV	
General Recommendations and Restrictions	Acceptable and common where no migration is probable or when combined with a geotextile filter media. Suitable for use as a drainage blanket and under drain where adjacent material is suitably graded or when used with a geotextile filter fabric	Where hydraulic gradient exists check gradation to minimize migration. Clean groups are suitable for use as a drainage blanket and underdrain. Uniform fine sands (SP) with more than 50% passing a #100 sieve (0.006—in) behave like silts and should be treated as Class IV soils.	Do not use where water conditions in trench prevent proper placement and compaction. Not recommended for use with pipes with stiffness of 9 psi or less	Difficult to achieve high—soil stiffness. Do not use where water conditions in trench prevent proper placement and compaction. Not recommended for use with pipes with stiffness of 9 psi or less	
Foundation	Suitable as foundation and for replacing over—excavated and unstable trench bottom as restricted above.	Suitable as foundation and for replacing over—excavated and unstable trench bottom as restricted above. Install and compact in 12—in maximum layers	Suitable for replacing over—excavated trench bottom as restricted above. Install and compact in 6 in. (150 mm) maximum layers		
Pipe Embedment	Suitable as restricted above. Work mater haunch support.	rial under pipe to provide uniform	Suitable as restricted above. Difficult to place and compact in the haunch zone.	Suitable as restricted above. Difficult to place and compact in the haunch zone.	
Embedment Compaction: recommended Percent Compaction, SPD (D)	See Note (C)	85% (SW and SP soils). For GW and GP soils, See Note (E)	90%	95%	
Relative Compactive Effort Required to Achieve Minimum Percent Compaction	Low	Moderate	High	Very High	
Compaction Methods	Vibration or Impact	Vibration or Impact	Impact	Impact	
Required Moisture Control	None	None	Maintain near optimum to	minimize compactive effort	
(A) Class V materials a	re unsuitable as embedment. They may be	e used as final backfill as permitted by t	he engineer.		

(B) Class I materials have higher stiffness than Class II materials, but data on specific soil stiffness of placed, uncompacted Class I materials can be taken equivalent to Class II materials compacted to 95% of maximum Standard Proctor Density, and the soil stiffness of compacted Class I materials can be taken equivalent to Class II materials compacted to 100% of maximum Standard Proctor Density. Even if placed uncompacted (that is, dumped), Class I materials should always be worked into the haunch zone to assure complete

(C) Suitable compaction typically achieved by dumped placement (that is, uncompacted but worked into haunch zone to ensure complete placement).

(D) SPD is standard Proctor density as determined by Test Method D698.

(E) Place and compact GW and GP soils with at least two passes of compaction equipment.

Class	Description (A,B)	Pe	ercentage Pas	sing Sieve Si	zes	AASHTO So Groups (C
01000	(1,5)	1.5-in	3/8-in	No. 4	No. 200	
I	Crushed rock, angular (D)	100%	less than or equal to 25%	less than or equal to 15%	less than or equal to 12%	
II	Clean, coarse grained soils: SW, SP, GW, GP or any soil beginning with one of these symbols				less than or equal to 12% (E,F)	A1, A
	Coarse grained soils with fines: GM, GC, SM, SC, or any soil beginning with one of these symbols				greater than 12%	A-2- A-2- A-2-
III	Sandy or gravelly fine—grained soils: CL, ML, or any soil beginning with one of these symbols				less than 70%	A-4, A
IV	Fine—grained soils: CL, ML, or any soil beginning with one of these symbols				greater than 70%	A-2-7, A-6
٧	MH, CH, OL, OH, PT					A5, A

(B) Limits may be imposed on the soil group to meet project or local requirements if the specified soil remains within the group. For example, some project applications require a Class I material with minimal fines to address specific structural or hydraulic conditions and the specification may read "Use Class I soil with a maximum of 5% passing the #200 sieve."

(C) AASHTO M145, Classification of Soils and Soil Aggregate Mixtures.

(D) All particle faces shall be fractured.

GENERAL NOTES:

1. FOR INSTALLATIONS IN PROPOSED VEHICULAR OR PEDESTRIAN

PAVING, CAST-IRON CLEANOUT

SHALL BE CAST-IN-PLACE WITH

ADJACENT PAVING WORK.

2. CLEANOUT SHALL BE RATED FOR HEAVY DUTY OR EXTRA HEAVY DUTY APPLICATIONS FOR ALL INSTALLATIONS IN VEHICULAR

3. FOR INSTALLATIONS IN TURF

AND/OR LANDSCAPED AREAS. CONTRACTOR TO PROVIDE 18-IN x

12-IN x 4-IN CONCRETE PAD

AROUND FINISHED CLEANOUT.

PROVISIONS HAVE BEEN MADE BY

BUILDING. COORDINATE WITH PLUMBING CONTRACTOR PRIOR

TO PROCUREMENT OR

INSTALLATION.

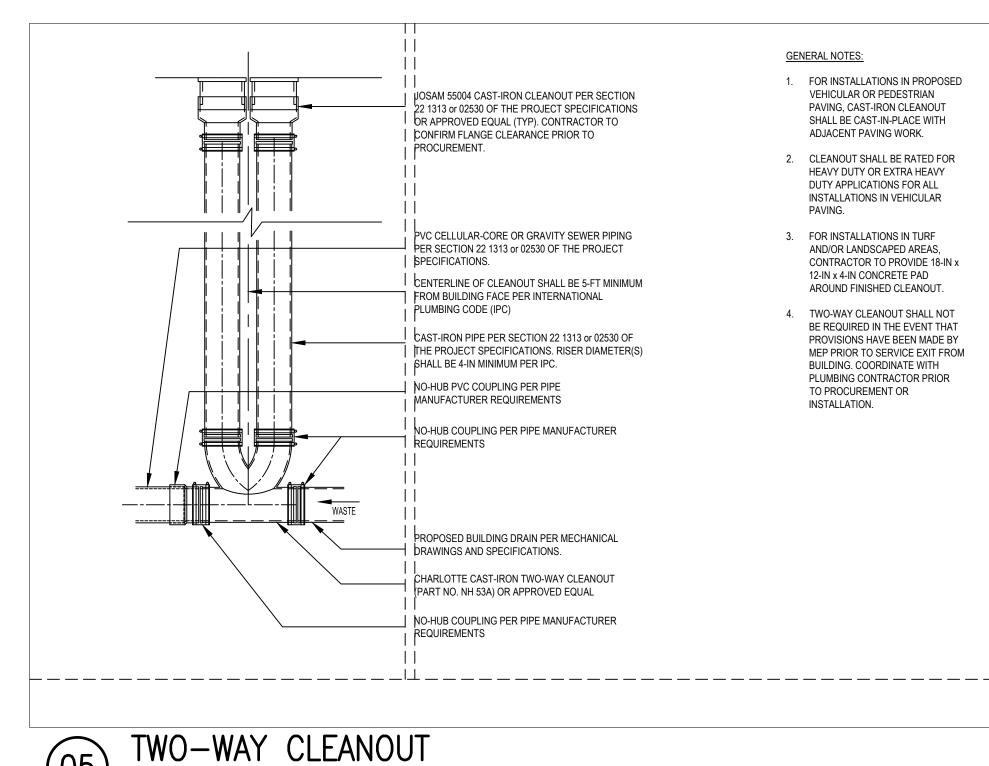
MEP PRIOR TO SERVICE EXIT FROM

4. TWO-WAY CLEANOUT SHALL NOT BE REQUIRED IN THE EVENT THAT

(E) Materials such as broken coral, shells, and recycled concrete, with less than or equal to 12% passing a No. 200 sieve, are considered to be Class II materials. These materials should only be used when evaluated and approved by the Engineer.

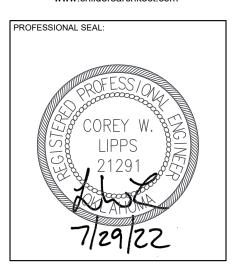
(F) Uniform fine sands (SP) with more than 50% passing a No. 100 sieve (0.006—in) are very sensitive to moisture and should not be used as backfill unless specifically allowed in the contract documents. If use of these materials is allowed, compaction and handling procedures should follow the guidelines for Class III materials.

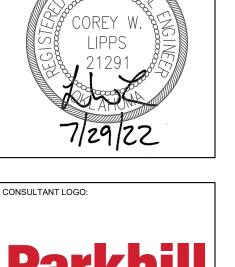
(03) STORM PIPE TRENCH DETAIL - PVC AND PP

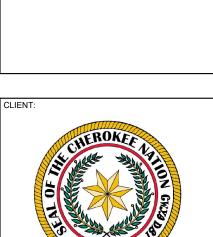


A2 - 1/2" Ø VARYING SPACII (D + 2' - 0') TO (D + 2N + 6")	,	D = 15" 2' - 10" D = 18" 3' - 1" D = 24" 3' - 8" D = 30" 4' - 2" D = 36" 4' - 9" D = 42" 5' - 3"
PLAN PLAN	BENDING FOR VI BAR	S BENDING FOR V2 BARS
A 4 B 2 V2 4"	N	SLOPE PER MAXI PLAN (2:1 MAX) 2 V2 O
ELEVATION	SECTION A-A	BENDING FOR H1 BARS
DIMENSIONS	DIMENSIONS & QUANTITIES FOR HEADWALLS WITH 45° WINGS REINFORCING STEEL	* FOR ONE HEADWALL QUANTITIES *
D AREA SQ FT T H K L M N 15" 1.23 2 1/4" 2' - 5 1/4" 1' - 5" 3' - 7" 1' - 9" 1' - 3" 18" 1.77 2 1/2" 2' - 8 1/2" 1' - 7" 3' - 10" 2' - 11/2" 1' - 6" 24" 3.14 3" 3' - 3" 1' - 10 1/2" 4' - 4" 2' - 10" 2' - 0" 30" 4.91 3 1/2" 3' - 9 1/2" 2' - 2" 4' - 10" 3' - 6 1/2" 2' - 6" 36" 7.07 4" 4' - 4" 2' - 5 1/2" 5' - 4" 4' - 3" 3' - 0" 42" 9.62 4 1/2" 4' - 10 1/2" 2' - 9" 5' - 10" 4' - 1 1/2" 3' - 6"	A1 - 1/2" Ø A - 1/2" Ø B - 1/2" Ø C - 1/2" Ø H1 - 1/2" Ø # LENGTH # LENGTH # LENGTH # LENGTH # LENGTH 4 1' - 0" 2 3' - 9" AV. 7 3' - 3" 3 1' - 6" 4 2' - 1 4 1' - 2" 2 4' - 3" AV. 7 3' - 6" 3 1' - 6" 4 2' - 6 5 1' - 8" 3 5' - 3" AV. 7 4' - 0" 3 1' - 6" 6 3' - 2 5 2' - 2" 3 6' - 3" AV. 7 4' - 6" 4 1' - 6" 6 3' - 1 6 2' - 8" 4 7' - 3" AV. 7 5' - 0" 4 1' - 6" 6 4' - 7 6 3' - 2" 4 8' - 3" AV. 7 5' - 6" 4 1' - 6" 6 5' - 4	TH # LENGTH # LENGTH CONC C.Y. STEEL LBS 1" 4 3'-5"AV. 4 5'-10" .74 57 5" 4 3'-8"AV. 4 6'-1" .91 61 2" 6 4'-1"AV. 4 6'-8" 1.37 85 1" 8 4'-6"AV. 4 7'-2" 1.77 104 7" 10 4'-11"AV. 4 7'-9" 2.29 130

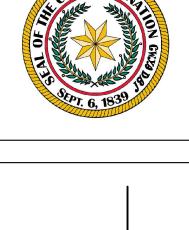
James R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480 www.childersarchitect.com







Oklahoma City, OK 73134 405-832-9900 www.parkhill.com Oklahoma CA #4935, Expires 6/30/2023



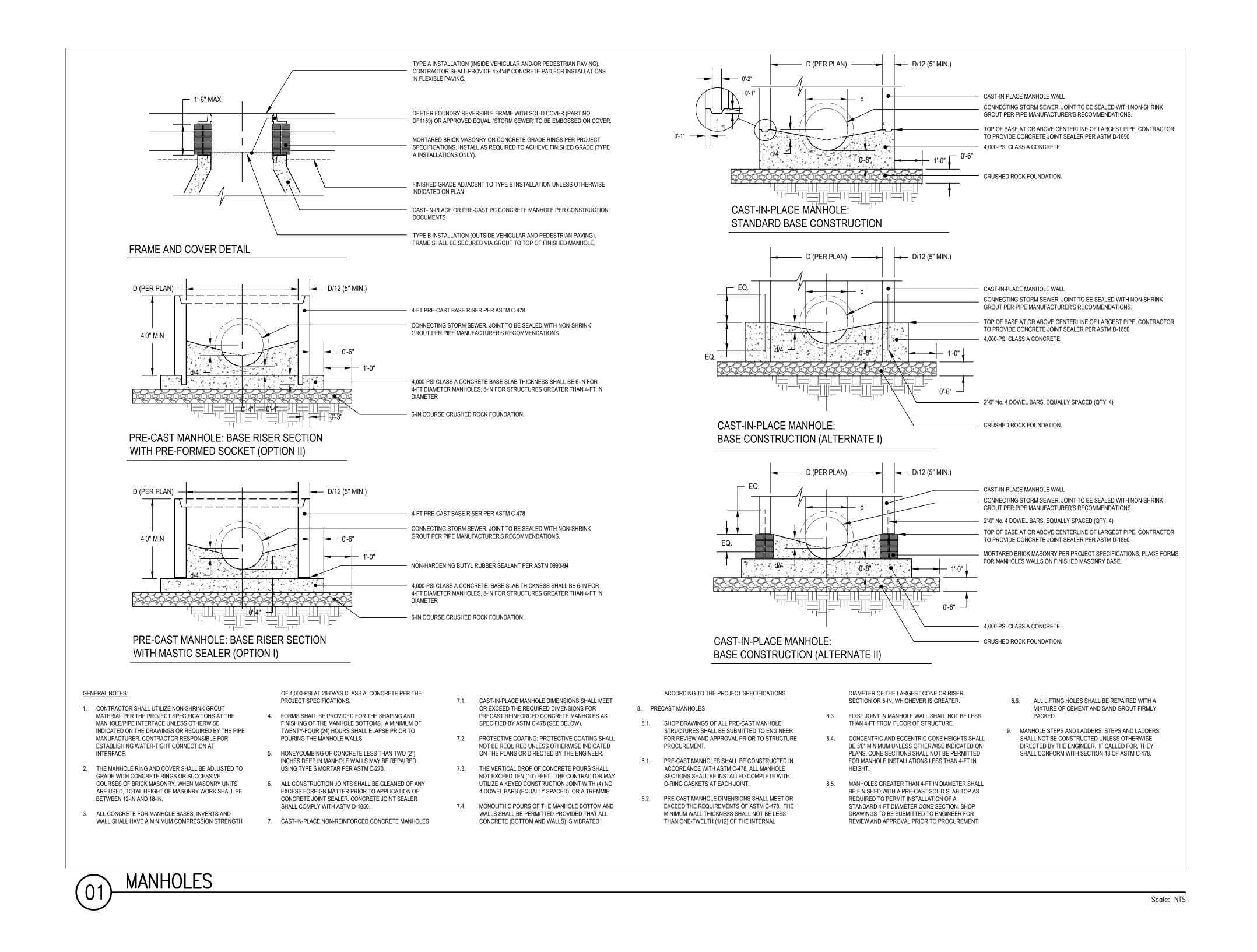
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REVISIONS		

21-08.21 07-29-2022 C6-501

STORM DRAIN DETAILS

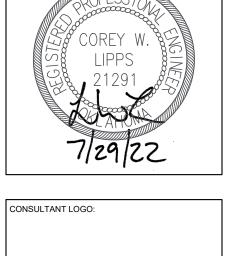
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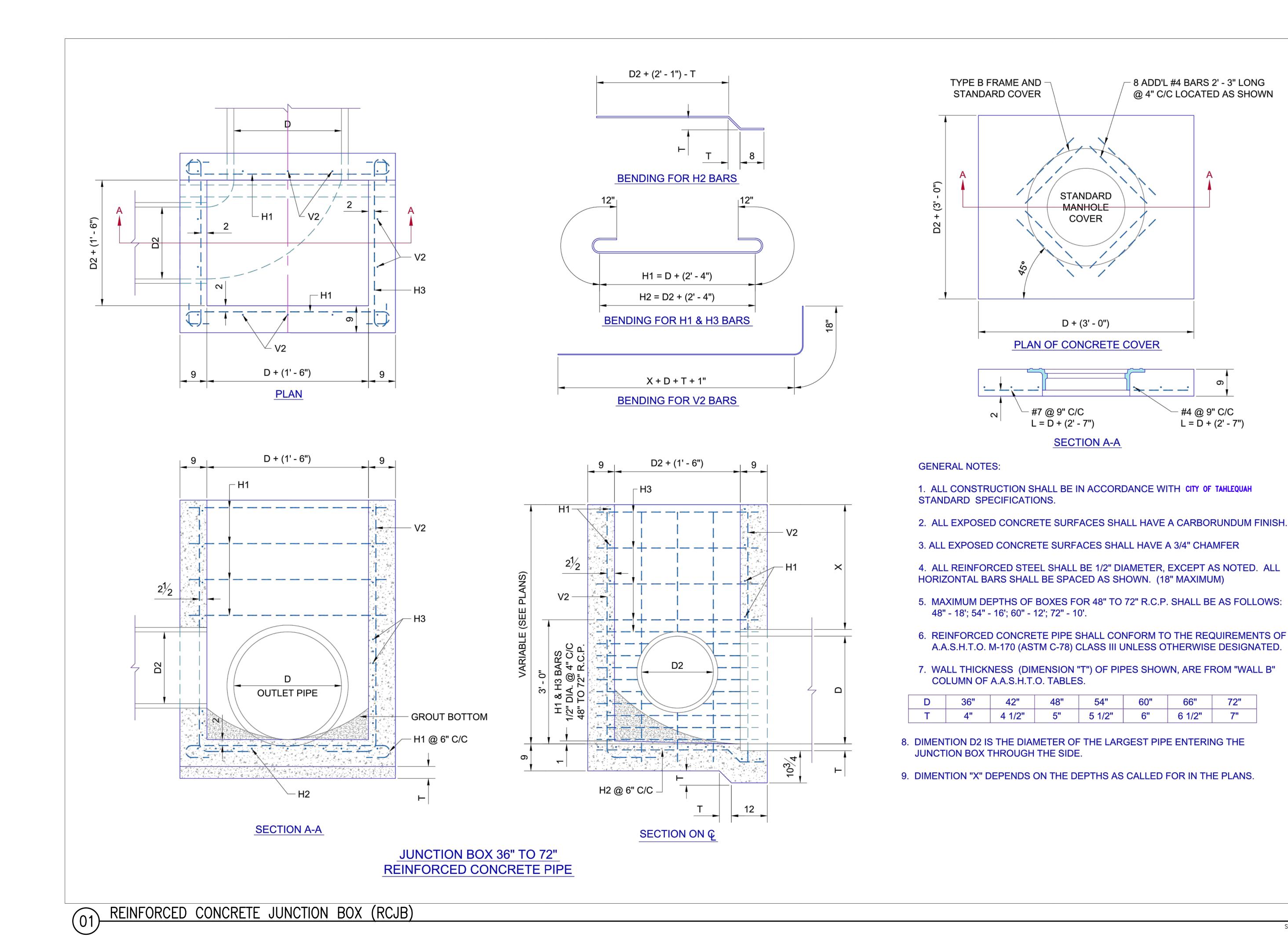


PROJECT PHASE: **BID PACKAGE 01** (NORTH PARKING AND ACCESS)

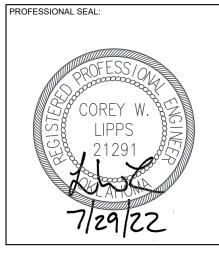
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C6-502

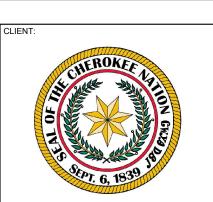
STORM DRAIN DETAILS



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HOSPITAL E NATION ACEMENT I CHEROKEE I HASTINGS REPLA

72"

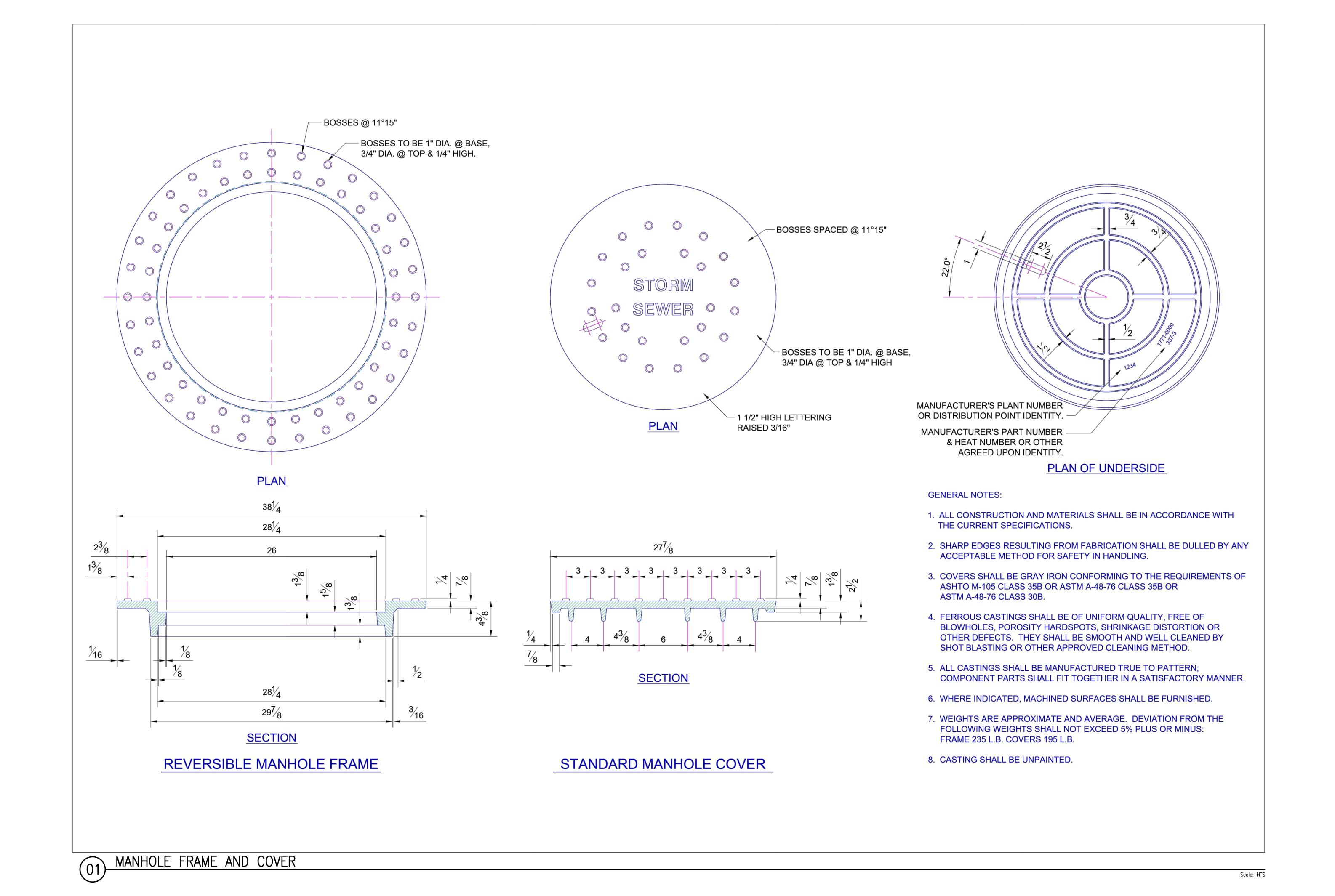
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 REVISIONS

21-08.21 07-29-2022

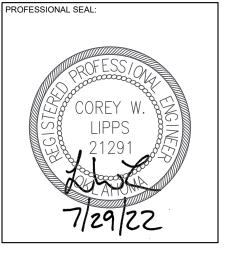
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STORM DRAIN DETAILS

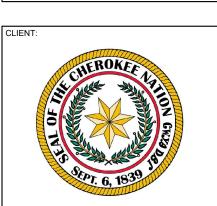


James R. Childers
Architect, Inc.

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Fort Smith, AR 72901
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W. S. F. 6, 1839 18

CHEROKEE NATION

HASTINGS REPLACEMENT HOSPITAL

EY PLAN:

PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)

REVISIONS

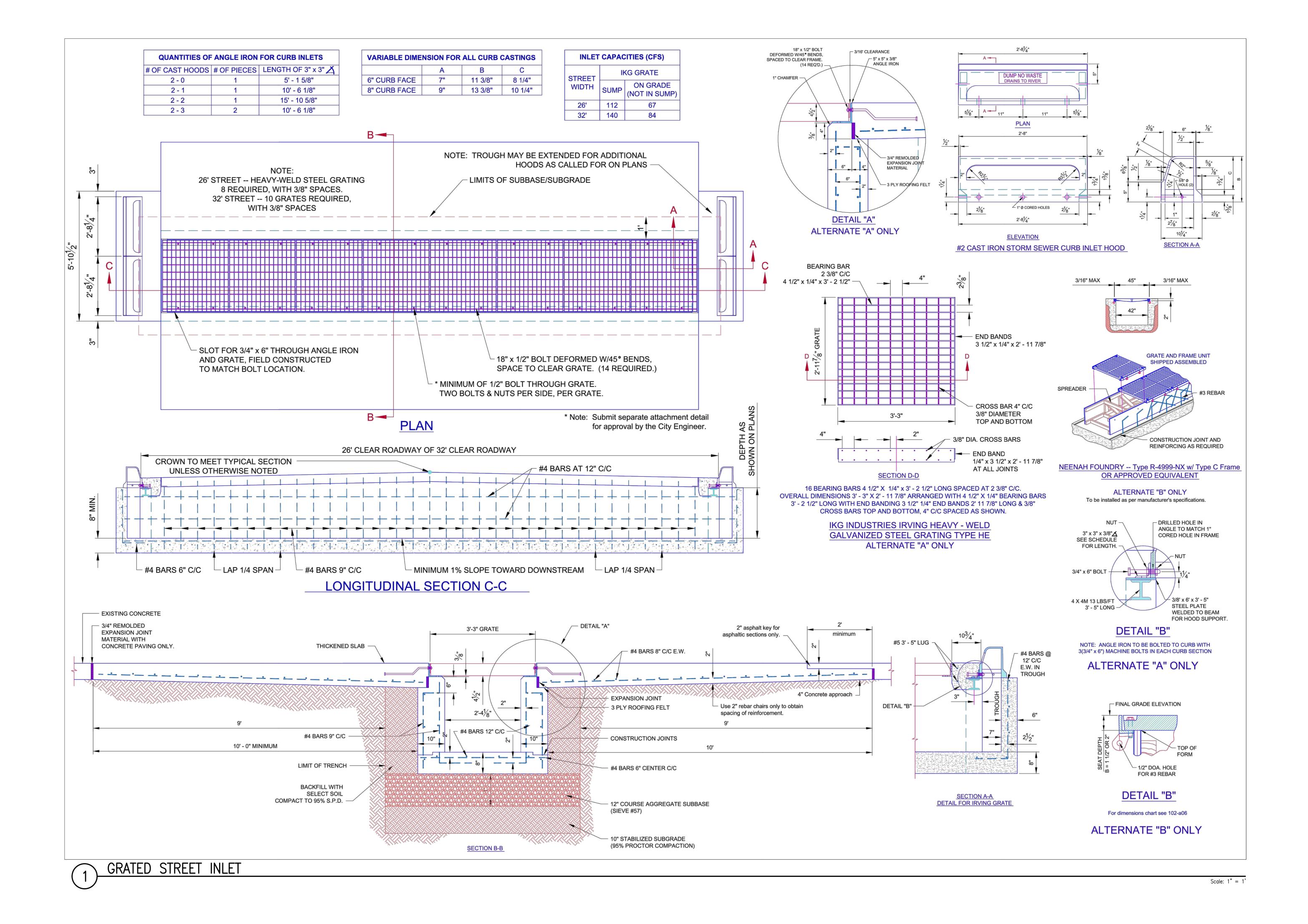
	REVISIONS

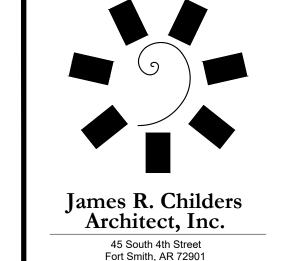
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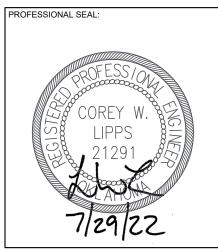
C6-504

T TITLE:

STORM DRAIN DETAILS







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SPITAL

CHEROKEE NATION

HASTINGS REPLACEMENT H

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(SITE DEMO / STORM SEWER RELOCATION / EROSION CONTROL)

	REVISIONS	

21-08.21 ATE: 03-31-2022

C6-505

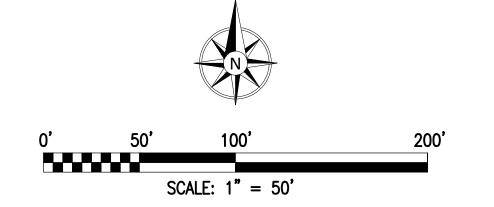
STORM DRAIN DETAILS

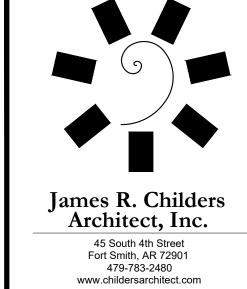


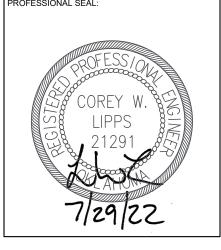
Sub-Basin ID(s) / Desc area (sq.ft) area (acres)	ription	EDA 1 3,822.71	EDA 2 32,317.73	EDA 3 12,132.69	EDA 4 24,206.51	EDA 5 246,456.82	EDA 6 118,213.48	EDA 7 51,633.02	EDA 8 95,331.87	EDA 55,480.0
area (acres)		0.09	0.74	0.28	0.56	5.66	2.71	1.19	2.19	1.3
RUNOFF CURVE NUM	BER	74.5	74.5	74.5	74.5	69.5	73.1	55.4	58.7	74
Area 1 - Area (sq.ft)		3,823	32,318	12,133	24,207	218,626	114,456	6,985	8,449	55,48
Description		Meadow	Meadow	Meadow	Meadow	Meadow	Meadow	Meados	Meadow	Meado
Soil Type		C/D	C/D	C/D	C/D	C/D	C/D	C/D	C/D	C
Curve Number 1		74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74
Area 2 - Area (sq.ft)						27,830	3,757	6,062	9,072	
Description						Meadow	Meadow	2 Acre Res	2 Acre Res	
Soil Type						Α	Α	C/D	C/D	
Curve Number 2						30	30	79.5	79.5	
Area 3 - Area (sq.ft)								1,155	74,554	
Description								Meadow	2 Acre Res	
Soil Type								Α	Α	
Curve Number 3								30	46	
Area 4 - Area (sq.ft)								37,283	3,257	
Description								2 Acre Res	2 Acre Res	
Soil Type	ļ							Α	В	
Curve Number 4								46	65	
Area 5 - Area (sq.ft)								149		
Description								2 Acre Res		
Soil Type								В		
Curve Number 5								65		
COMPOSITE CURVE C	ALCULATION									
Total Area (sq.ft)		3,823	32,318	12,133	24,207	246,457	118,213	51,633	95,332	55,48
Composite Curve Nur	ıber	74.5	74.5	74.5	74.5	69.5	73.1	53.5	52.4	74
CONNECTED EFFECT										
Impervious Area (sq.f	:)								13,220	
Fraction Impervious A	.rea								0.14	
Weighted Curve Num	oer								58.7	
UNCONNECTED EFFE	CT .									
Impervious Area (sq.f	:)	-	-	-	-	-	-	4,494		-
Percent Impervious A	rea	0.00	0.00	0.00	0.00	0.00	0.00	8.70		0.0
Ratio of Unconnected	· -		1.00	1.00	1.00	1.00	1.00	1.00		1.0
Weighted Curve Num	oer	74.5	74.5	74.5	74.5	69.5	73.1	55.4		74
Curve Number		74.5	74.5	74.5	74.5	69.5	73.1	55.4	58.7	74
TIME OF CONCENTRA	TION									
elevation 1 (ft)	ļ	937	937	926	925	937	938	927	927.2	93
elevation 2 (ft)		928	928	925	923.6	928.5	929	926	926	92
sheet flow length (ft)	, I	80	80	80.0	80	80	80	50	80	8
() -1)	0.11	0.11	0.01	0.02	0.11	0.11	0.03	0.02	O.:
sheet flow slope (ft/ft		Dense Grass	Dense Grass	Dense Grass	Dense Grass	Dense Grass	Dense Grass	Dense Grass	Dense Grass	Dense Gra
sheet flow slope (ft/ft Surface Description		0.24 5.7	0.24 5.8	0.24 13.3	0.24 12.0	0.24 5.9	0.24 5.7	0.24 7.1	0.24 12.8	0.2 6
		5.,								
1-sneet (mm)			020.2	024.0	022.0	030 5	020	025.5	020	~
1-sneet (mm)		928	928.2	924.9	923.6	928.5	929 917	925.5	926 902	
elevation 1 (ft) elevation 2 (ft)		928 927	927	924.5	920	915	917	916	902	92
elevation 1 (ft) elevation 2 (ft)	t)	928 927 70	927 175	924.5 65	920 186	915 574	917 462	916 283	902 477	92 39
elevation 1 (ft) elevation 2 (ft)	t)	928 927 70 0.01	927 175 0.01	924.5 65 0.01	920 186 0.02	915 574 0.02	917 462 0.03	916 283 0.03	902 477 0.05	92 39 0.0
elevation 1 (ft) elevation 2 (ft) shallow flow length (f	t) /ft)	928 927 70	927 175	924.5 65	920 186	915 574	917 462	916 283	902 477	92 92 39 0.0 1 3.6

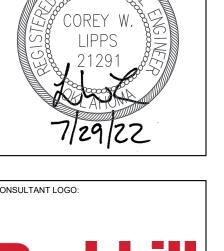
Hydrograph Return Period Recap
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2022

-	Hydrograph	Inflow				Peak Out	tflow (cfs))			Hydrograph
No.	type (origin)	hyd(s)	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	Description
1	SCS Runoff			0.135		0.227	0.299	0.391	0.466	0.542	EDA 1
2	SCS Runoff			1.005		1.693	2.225	2.912	3.473	4.039	EDA 2
3	SCS Runoff			0.316		0.532	0.701	0.920	1.099	1.279	EDA 3
4	SCS Runoff			0.653		1.102	1.452	1.903	2.272	2.645	EDA 4 - Flow West Pre
5	SCS Runoff			5.388		9.946	13.60	18.40	22.39	26.45	EDA 5
6	SCS Runoff			3.253		5.620	7.468	9.867	11.83	13.83	EDA 6
7	SCS Runoff			0.217		0.773	1.305	2.062	2.724	3.433	EDA 7
8	SCS Runoff			0.630		1.683	2.627	3.944	5.083	6.277	EDA 8 - Downing Flow Pre
9	SCS Runoff			1.654		2.793	3.675	4.814	5.744	6.684	EDA 9 - NE Flow Pre
10	Combine	1, 2, 3,		1.401		2.372	3.125	4.099	4.893	5.697	Hastings Flow Pre
11	Combine	5, 6, 7,		8.799		16.31	22.35	30.33	36.95	43.71	W Downing Prop Pre
12	SCS Runoff			1.227		1.736	2.105	2.564	2.929	3.293	PDA 1
13	SCS Runoff			3.170		4.185	4.922	5.842	6.578	7.313	PDA 2
14	SCS Runoff			1.550		2.046	2.406	2.856	3.216	3.575	PDA 3
15	SCS Runoff			0.352		0.465	0.547	0.649	0.731	0.813	PDA 4
16	SCS Runoff			12.67		16.76	19.72	23.42	26.37	29.32	PDA 5
17	SCS Runoff			0.188		0.306	0.396	0.511	0.604	0.697	PDA 6 - Flow West Post
18	SCS Runoff			7.563		9.991	11.75	13.95	15.71	17.47	PDA 7
19	SCS Runoff			1.234		2.012	2.607	3.369	3.990	4.617	PDA 8 - Pond
20	SCS Runoff			1.081		1.826	2.402	3.146	3.754	4.368	PDA 9 - NE Flow Post
21	SCS Runoff			0.322		1.348	2.533	4.310	5.907	7.624	PDA 10 - Downing Flow Post
22	SCS Runoff			0.959		1.558	2.015	2.599	3.072	3.549	PDA 11 - W Downing Prop Bypass
23	Combine	12, 14,		2.776		3.782	4.511	5.420	6.145	6.868	Hastings Flow Post
24	Combine	13, 15, 16,		24.26		32.40	38.34	45.77	51.72	57.67	Pond Inflow
25	Reservoir	18, 19, 24		7.261		12.98	18.79	21.53	22.76	25.64	Pond Discharge
26	Combine	22, 25		7.557		13.50	19.57	22.53	23.89	26.86	W Downing Prop Post
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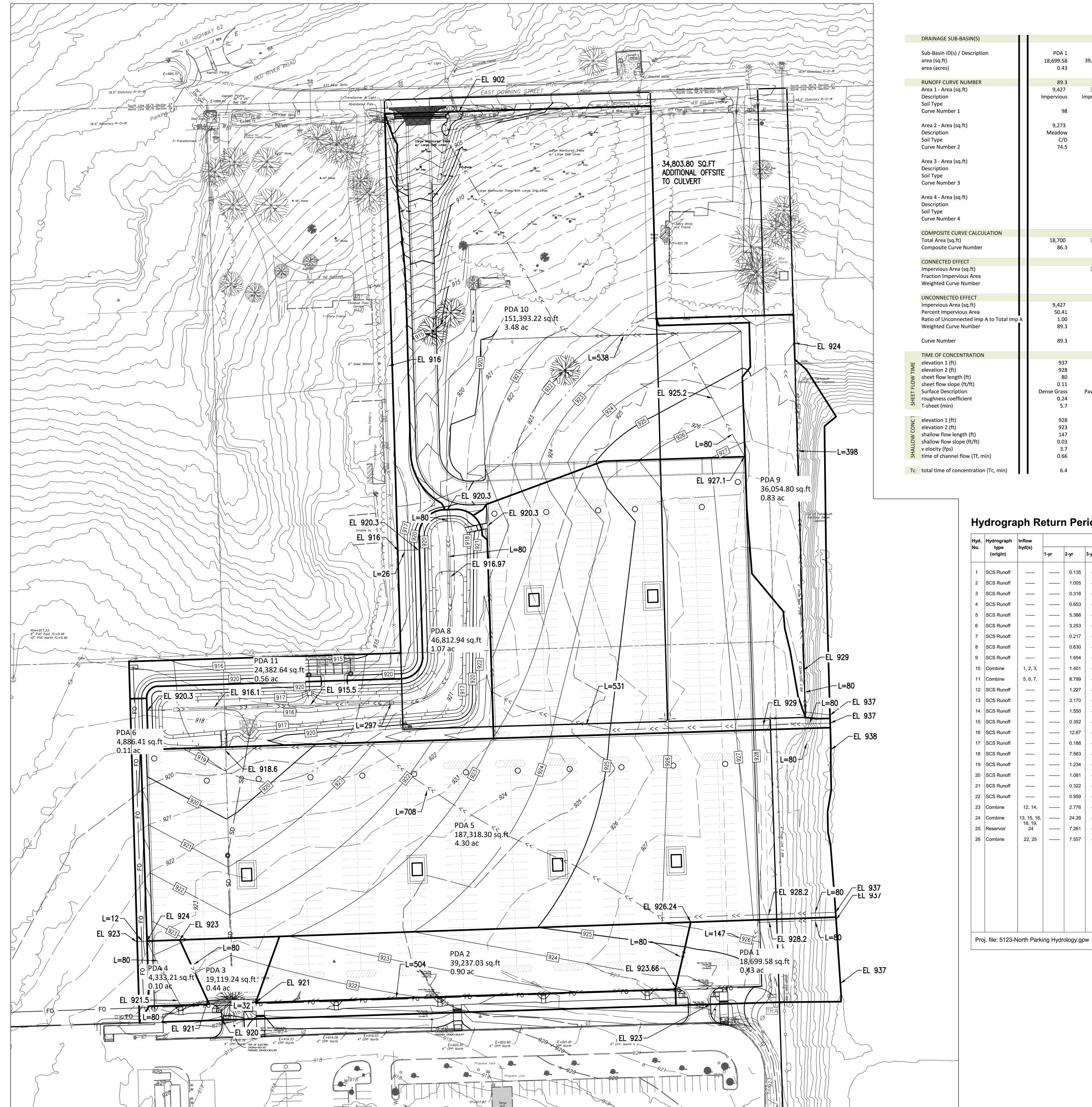
CHEROKEE P. HASTINGS REPLA

BID PACKAGE 01

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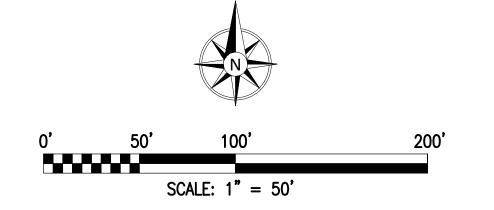
NP EXISTING HYDROLOGY

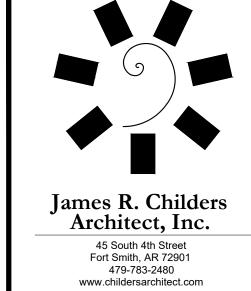


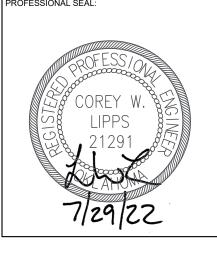
DRAINAGE SUB-BASIN(S)											
Sub-Basin ID(s) / Description	PDA 1	PDA 2	PDA 3	PDA 4	PDA 5	PDA 6	PDA 7	PDA 8	PDA 9	PDA 10	PDA
area (sq.ft)	18,699.58	39,237.03	19,119.24	4,333.21	187,318.30	4,886.41	107,357.50	46,812.94	36,054.80	151,393.22	24,382
area (acres)	0.43	0.90	0.44	0.10	4.30	0.11	2.46	1.07	0.83	3.48	C
RUNOFF CURVE NUMBER	89.3	0.0	98.0	0.0	0.0	77.0	0.0	77.0	74.5		
Area 1 - Area (sq.ft)	9,427	39,237	19,119	4,333	167,181	-	98,835	-	-	18,160	
Description	Impervious	Impervious	Impervious	Impervious	Impervious	Impervious	Impervious	Impervious	Impervious	Impervious	Impervi
Soil Type											
Curve Number 1	98	98	98	98	98	98	98	98	98	98	
Area 2 - Area (sq.ft)	9,273				20,137	4,886	8,523	46,813	36,055	32,582	24,3
Description	Meadow				Meadow	Grass	Meadow	Grass	Meadow	Grass	G
Soil Type	C/D				C/D	C/D	C/D	C/D	C/D	C/D	
Curve Number 2	74.5				74.5	77	74.5	77	74.5	77	
Anna 2 Anna (na 61)										44.000	
Area 3 - Area (sq.ft)										14,068	
Description										Grass	
Soil Type										A	
Curve Number 3										39	
Area 4 - Area (sq.ft)										86,583	
Description										Meadow	
Soil Type										A	
Curve Number 4										30	
COMPOSITE CURVE CALCULATION											
Total Area (sq.ft)	18,700	39,237	19,119	4,333	187,318	4,886	107,358	46,813	36,055	151,393	24,3
Composite Curve Number	86.3	98.0	98.0	98.0	95.5	77.0	96.1	77.0	74.5	49.1	7
CONNECTED EFFECT											
Impervious Area (sq.ft)		39,237		4,333	167,181		98,835	-			
Fraction Impervious Area		1.000		1.000	0.892		0.921	0.000			
Weighted Curve Number		98.0		98.0	97.7		97.9	77.0			
UNCONNECTED EFFECT											
Impervious Area (sq.ft)	9,427		19,119			-			-	18,160	
Percent Impervious Area	50.41		100.00			0.00			0.00	12.00	(
Ratio of Unconnected Imp A to Total Imp	A 1.00		1.00			1.00			1.00	1.00	1
Weighted Curve Number	89.3		98.0			77.0			74.5	52.0	7
Curve Number	89.3	98.0	98.0	98.0	97.7	77.0	97.9	77.0	74.5	52.0	7
											·
TIME OF CONCENTRATION u elevation 1 (ft)	937	926	923	924	937	924	937	920.3	937	927	
elevation 1 (ft) elevation 2 (ft)	928	924	921	921.5	928.0	923	929	917.0	929	925	
sheet flow length (ft)	80	80	80.0	80	80	12	80	80	80	80	
sheet flow length (ft) sheet flow slope (ft/ft)	0.11	0.03	0.03	0.03	0.11	0.08	0.10	0.042	0.10	0.02	(
Surface Description	Dense Grass	Pavement	Pavement	Pavement	Dense Grass	Bermuda	Dense Grass	Bermuda	Dense Grass	Bermuda	Berm
Surface Description roughness coefficient T-sheet (min)	0.24	0.011	0.011	0.011	0.24	0.41	0.24	0.41	0.24	0.24	Deriii
T-sheet (min)	5.7	0.8	0.9	0.8	5.7	2.2	6.0	13.1	6.0	10.7	`
olevation 1 (ft)	928	923.7	021.0	921.5	928.0		929.0	917.0	929	925	
elevation 1 (ft) elevation 2 (ft)			921.0								
elevation 2 (ft)	923	921	920	921	918.6		920.3	915.5	924	900	
shallow flow length (ft)	147	504	32	40	708		531	454	398	538	
shallow flow slope (ft/ft)	0.03	0.01	0.03	0.01	0.01		0.02	0.003	0.01	0.05	
shallow flow slope (ft/ft) v elocity (fps) time of channel flow (Tf. min)	3.7	1.5	3.6	2.3	2.3		2.6	1.2	1.8	3.5	
time of channel flow (Tf, min)	0.66	5.71	0.15	0.29	5.06		3.42	6.57	3.67	2.57	

Hyd.	Hydrograph	Inflow	Peak Outflow (cfs)							Hydrograph	
	type (origin)	hyd(s)	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	Description
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3	SCS Runoff			0.316		0.532	0.701	0.920	1.099	1.279	EDA 3
4	SCS Runoff			0.653		1.102	1.452	1.903	2.272	2.645	EDA 4 - Flow West Pre
5	SCS Runoff			5.388		9.946	13.60	18.40	22.39	26.45	EDA 5
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7	SCS Runoff			0.217		0.773	1.305	2.062	2.724	3.433	EDA 7
8	SCS Runoff			0.630		1.683	2.627	3.944	5.083	6.277	EDA 8 - Downing Flow Pre
9	SCS Runoff			1.654		2.793	3.675	4.814	5.744	6.684	EDA 9 - NE Flow Pre
10	Combine	1, 2, 3,		1.401		2.372	3.125	4.099	4.893	5.697	Hastings Flow Pre
11	Combine	5, 6, 7,		8.799		16.31	22.35	30.33	36.95	43.71	W Downing Prop Pre
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13	SCS Runoff			3.170		4.185	4.922	5.842	6.578	7.313	PDA 2
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23	Combine	12, 14,		2.776		3.782	4.511	5.420	6.145	6.868	Hastings Flow Post
24	Combine	13, 15, 16,		24.26		32.40	38.34	45.77	51.72	57.67	Pond Inflow
25	Reservoir	18, 19, 24		7.261		12.98	18.79	21.53	22.76	25.64	Pond Discharge
26	Combine	22, 25		7.557		13.50	19.57	22.53	23.89	26.86	W Downing Prop Post

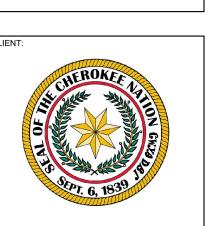
Tuesday, 07 / 5 / 2022











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CHEROKEE NATION. HASTINGS REPLACEME

KEY PLAN:		

PROJECT PHASE:

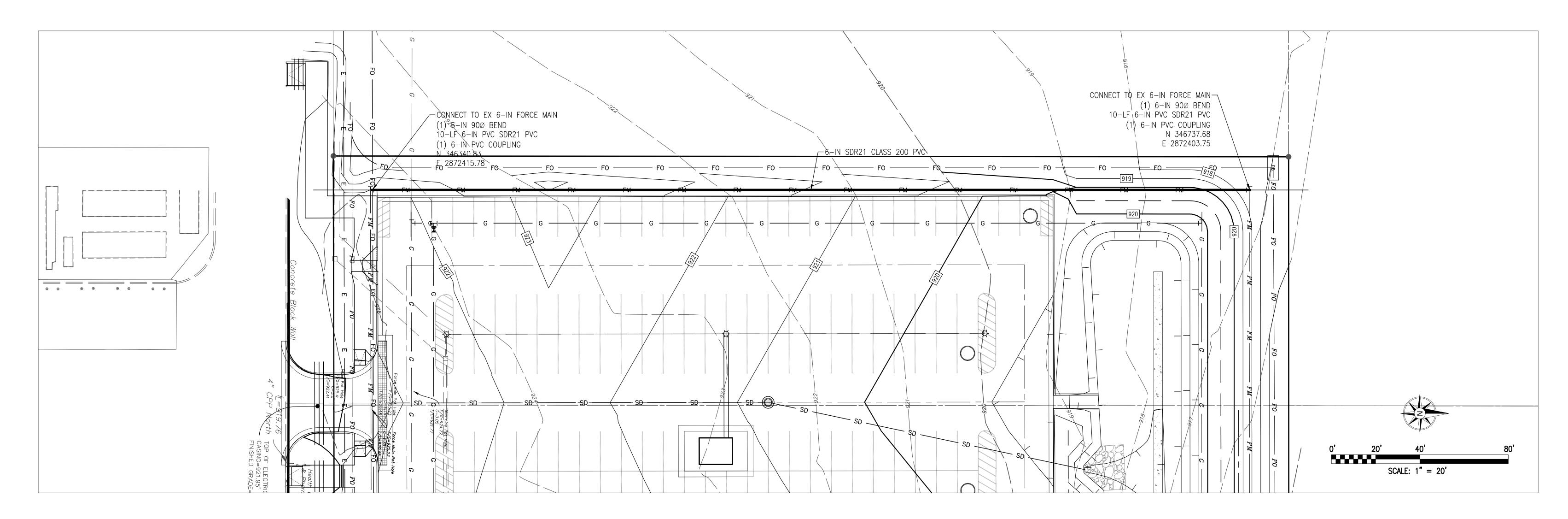
BID PACKAGE 01
(NORTH PARKING AND ACCESS)

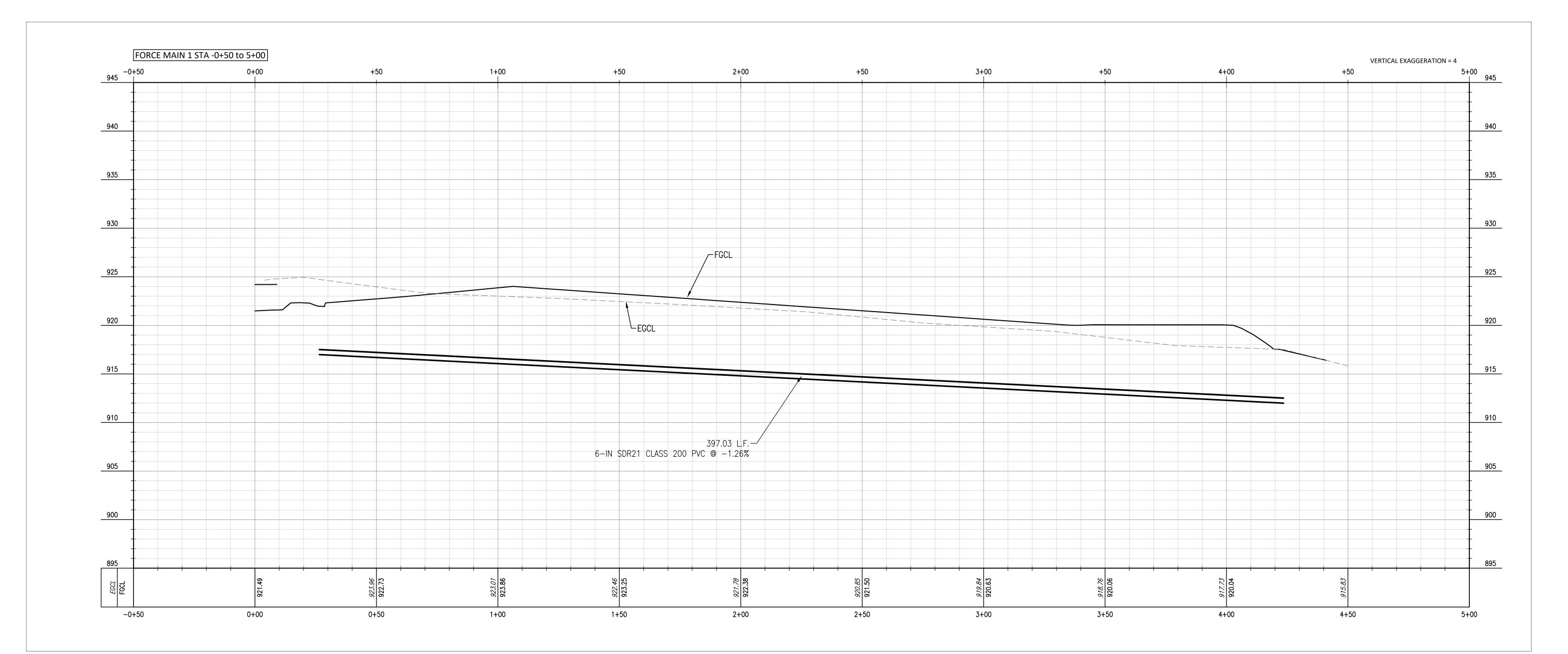
	REVISIONS
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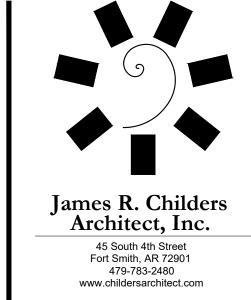
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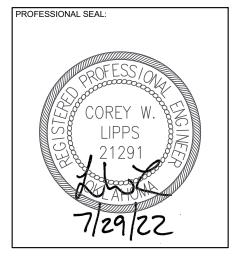
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NP DEVELOPMENT HYDROLOGY

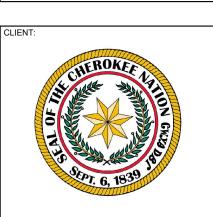












SPITAL

W. HASTINGS REPLACEMENT HOSPITAL

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING AND ACCESS)

REVISIONS

07-29-22
HEET NUMBER:

21-08.21

C8-201

FORCE MAIN PLAN & PROFILE

GENERAL NOTES

- THE FOLLOWING STANDARDS (LATEST EDITION) SHALL APPLY TO PRIVATE PVC WATER LINES AS APPROPRIATE:
 1.1. ASTM D1785 STANDARD SPECIFICATION FOR POLYVINYL
 - CHLORIDE (PVC) PLASTIC PIPE, SCHEDULES 40, 80, AND 120.

 1.2. ASTM D2241 STANDARD SPECIFICATION FOR POLYVINYL CHLORIDE (PVC) PRESSURE—RATED PIPE (SDR SERIES).
 - 1.3. AWWA C900 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 4—IN THROUGH 12—IN, FOR WATER DISTRIBUTION.
- 1.4. AWWA C905 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS, 14-IN THROUGH 48-IN, FOR WATER TRANSMISSION AND DISTRIBUTION.

 2. 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 FAMILIARIZE ITS EMPLOYEES INVOLVED IN
 EXCAVATION AND TRENCHING WITH THE PROVISIONS IN OSHA
 PAMPHLET NUMBER 2226, EXCAVATING AND TRENCHING OPERATIONS.

 3. PROVIDED DETAIL SHALL BE USED FOR EXTENSION OF PRIVATE PVC
 WATER LINES ONLY. PUBLIC PVC WATER LINE EXTENSIONS SHALL BE
 BEDDED AND BACKFILLED PER THE REQUIREMENTS OF THE
- COMPLETION OF THE WORK.

 4. ALL INSTALLATIONS SHALL MEET THE REQUIREMENTS OF INTERNATIONAL PLUMBING CODE (CURRENT EDITION), AWWA C605 (CURRENT EDITION) AND OAC 252:626 PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS CONSTRUCTION STANDARDS (CURRENT EDITION).

MUNICIPALITY WHICH WILL BE ACCEPTING THE IMPROVEMENTS AT THE

5. CONTRACTOR IS RESPONSIBLE FOR RE-VEGETATION OF ALL DISTURBED AREAS THAT ARE OUTSIDE THE LIMITS OF AREAS SPECIFICALLY IDENTIFIED TO RECEIVE VEGETATIVE COVER AT THE COMPLETION OF THE PROJECT. RE-VEGETATION TO BE COMPLETED VIA SOLID SLAB SOD PER CORRESPONDING SECTIONS OF THE PROJECT SPECIFICATIONS.

TRENCHING

- TRENCH STABILITY DURING TRENCH EXCAVATION, ENSURE THAT THE TRENCH SIDES SHALL BE STABLE UNDER ALL WORKING CONDITIONS. THE TRENCH WALLS SHALL BE SLOPED OR APPROPRIATE SUPPORTS PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND
- FEDERAL REQUIREMENTS FOR SAFETY.

 2. TRENCH WIDTH THE WIDTH OF THE TRENCH AT ANY POINT BELOW THE TOP OF THE PIPE SHALL BE SUFFICIENT TO PROVIDE ADEQUATE ROOM FOR THE FOLLOWING REQUIREMENTS: (1) JOINING THE PIPE IN THE TRENCH IF THIS IS REQUIRED; (2) SNAKING OF SMALL DIAMETER, HEAT FUSED OR SOLVENT CEMENTED PIPE FROM SIDE—TO—SIDE ALONG THE BOTTOM OF THE TRENCH, WHEN THE EFFECTS OF CONTRACTION ARE NOT OTHERWISE ACCOMMODATED; (3) FILLING AND COMPACTING THE SIDE FILLS; (4) CHECKING THE ELASTOMERIC SEAL JOINTS. MINIMUM TRENCH WIDTHS SHALL BE PERMITTED TO BE UTILIZED WITH MOST SOLVENT—CEMENTED AND HEAT—FUSED PRESSURE PIPE MATERIALS BY JOINING THE PIPE OUTSIDE THE TRENCH AND LOWERING THE PIPE INTO THE TRENCH AFTER ADEQUATE JOINT STRENGTH HAS BEEN ATTAINED. THIS PRACTICE SHALL BE PERMITTED TO BE USED FOR GASKET JOINT PIPE, WITH MANUFACTURERS

APPROVAL, PROVIDING CARE IS TAKEN TO NOT DISASSEMBLE THE JOINTS DURING LOWERING.

3. TRENCH BOTTOM — THE TRENCH BOTTOM SHALL BE PREPARED FOR THE DIRECT REPLACEMENT OF THE PIPE AND SHALL BE CONTINUOUS, RELATIVELY SMOOTH, FREE OF ROCKS, AND PROVIDE UNIFORM

SUPPORT. FOR BELL-ENDED OR COUPLED PIPE, SUITABLE

- "BELL—HOLES" SHALL BE PROVIDED AT EACH JOINT TO PERMIT THE
 JOINT TO BE ASSEMBLED AND THE PIPE TO BE SUPPORTED
 PROPERLY.
 3.1. WHERE LEDGE ROCK, HARDPAN, OR BOULDERS ARE
 ENCOUNTERED, IT SHALL BE REQUIRED TO PAD THE TRENCH
- BOTTOM WITH A BEDDING OF AT LEAST 4—INTHICKNESS OF COMPACTED CLASS I OR II MATERIAL. IN SITUATIONS WHERE RAPID MOVEMENT OF WATER TAKES PLACE THROUGH THIS BEDDING, THE CLASS I OR II MATERIAL USED SHALL HAVE GRADATION THAT PREVENTS LOSS BY MIGRATION OF ANY PIPE
- EMBEDMENT MATERIAL.

 4. TRENCH DEPTH AND PIPE COVER—EXCAVATION FOR PIPE TRENCHES SHALL BE TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS. SUFFICIENT COVER SHALL BE MAINTAINED TO ADEQUATELY REDUCE THE TRAFFIC OR OTHER CONCENTRATED AND
- IMPACT LOADS.

 5. WHERE TRENCH WALLS ARE STABLE OR SUPPORTED, PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY, TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER EMBEDMENT MATERIALS. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED IN THE PIPE ZONE. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16—IN OR THE PIPE OUTSIDE DIAMETER TIMES 1.25, PLUS
- 6. RELIABILITY AND SAFETY OF SERVICE SHALL ASSUME MAJOR IMPORTANCE IN DETERMINING MINIMUM COVER FOR ANY INTENDED SERVICE. LOCAL, STATE, OR FEDERAL CODES SHALL ALSO GOVERN. PIPE INTENDED FOR WINTER WATER SERVICE SHALL HAVE A MINIMUM COVER EQUAL TO OR GREATER THAN THE MAXIMUM EXPECTED FROST PENETRATION DEPTH.
- 7. A MINIMUM COVER OF 24—IN FOR PIPE SHALL BE REQUIRED WHEN SUBJECTED TO HEAVY OVERHEAD TRAFFIC. IN AREAS OF LIGHT OVERHEAD TRAFFIC A MINIMUM COVER OF 12 TO 18—IN IS REQUIRED.
- GENERAL REQUIREMENTS FOR BEDDING AND BACKFILL
- 1. THE PIPE SHALL BE UNIFORMLY AND CONTINUOUSLY SUPPORTED OVER ITS ENTIRE LENGTH ON FIRM STABLE MATERIAL. BLOCKING SHALL NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT
- PIPE ACROSS EXCAVATED SECTIONS.

 2. PIPE SHALL BE PERMITTED TO BE INSTALLED IN A WIDE RANGE OF NATIVE SOILS. THE PIPE EMBEDMENT SHALL BE STABLE AND PLACED IN SUCH A MANNER AS TO EVENLY SUPPORT AND PHYSICALLY SHIELD THE PIPE FROM DAMAGE. ATTENTION SHALL BE GIVEN TO LOCAL PIPE LAYING EXPERIENCE WHICH SHALL INDICATE SOLUTIONS TO PARTICULAR

PIPE BEDDING PROBLEMS.

3. THE PIPE EMBEDMENT MATERIALS SHALL BE STABLE, SUFFICIENTLY WORKABLE TO BE READILY PLACED UNDER THE SIDES OF THE PIPE TO PROVIDE SATISFACTORY HAUNCHING, AND READILY COMPACTABLE

- TO ACHIEVE SOIL DENSITIES SPECIFIED BY CONTRACT DOCUMENTS. THE EMBEDMENT SHALL BE EITHER CLASS I, II OR III SOILS, AS DESCRIBED IN BY ASTM D2774.

 4. INITIAL BACKFILL MATERIALS SHALL BE PLACED IN COMPACTED LAYERS.

 5. FOR INSTALLATIONS BENEATH PROPOSED VEHICULAR PAVING.
- BOTTOM OF PROPOSED PAVING ELEVATION.

 6. ALL NATIVE AND OTHER MATERIALS IN THE PIPE EMBEDMENT ZONE SHALL BE FREE FROM REFUSE, ORGANIC MATERIAL, COBBLES,

CONTRACTOR SHALL PROVIDE CLASS I OR CLASS II MATERIAL TO

- BOULDERS, LARGE ROCKS OR STONES, OR FROZEN SOILS.

 7. THE PARTICLE SIZE OF MATERIAL IN CONTACT WITH THE PIPE SHALL NOT EXCEED THE FOLLOWING: 1/2-IN FOR PIPE TO 4-IN, 3/4-IN FOR PIPES 6 TO 8-IN; 1-IN FOR PIPES 10 TO 16-IN; AND 1-1/2-IN FOR LARGER PIPES. EACH SOIL LAYER SHALL BE SUFFICIENTLY COMPACTED TO UNIFORMLY DEVELOP LATERAL PASSIVE SOIL FORCES DURING THE BACKFILL OPERATION.
- 8. TO MINIMIZE DEFORMATION OF THINNER—WALLED PRESSURE PIPELINES, SUCH AS USED IN IRRIGATION, THE PIPELINE SHALL BE FIRST FILLED WITH WATER, ALL AIR REMOVED, AND KEPT FULL DURING THE BACKFILL OPERATION.

 9. WHEN INSTALLING PIPE IN LOCATIONS WHERE RAPID MOVEMENT OF COULD WATER SHALL BESTUT IN MICRATION OF SOIL FINES INTO
- GROUND WATER SHALL RESULT IN MIGRATION OF SOIL FINES INTO,
 OUT OF, OR BETWEEN LAYERS OF THE EMBEDMENT MATERIAL, THE
 BEDDING AND BACK FILL SHALL BE OF SUCH GRADATION IN PARTICLE
 SIZE AS TO PRECLUDE THIS POSSIBILITY. SOIL MIGRATION SHALL ALSO
 BE CONTROLLED BY USING AN APPROPRIATE SOIL FILTER OR A
 GEOTEXTILE FILTER FABRIC BETWEEN COARSE EMBEDMENT AND FINE
 SOILS
- 10. UNCOMPACTED FINAL BACKFILL CAN BE EITHER CLASS I, CLASS II, CLASS III, CLASS IV, OR CLASS V SOIL. IF BACKFILL IS TO BE COMPACTED, DO NOT USE CLASS V SOILS. THE FINAL BACKFILL SHALL BE PLACED AND SPREAD IN APPROXIMATELY UNIFORM LAYERS IN SUCH A MANNER AS TO FILL THE TRENCH COMPLETELY SO THAT THERE WILL BE NO UNFILLED SPACES UNDER OR ABOUT ROCKS OR LUMPS OF EARTH IN THE BACKFILL. LARGE ROCKS, STONES, FROZEN CLODS, AND OTHER DEBRIS GREATER THAN 3 IN—IN DIAMETER SHALL BE REMOVED. WHEN COMPACTION IS REQUIRED, ROLLING EQUIPMENT OR HEAVY TAMPERS SHALL ONLY BE USED TO COMPACT THE FINAL BACKFILL, PROVIDED THE PIPE IS COVERED BY AT LEAST 18—IN OF BACKFILL. TRENCHES UNDER PAVEMENTS, SIDEWALKS, OR ROADS SHALL BE BACKFILLED AND COMPACTED TO THE REQUIRED DENSITY SPECIFIED BY CONTRACT DOCUMENTS OR BY THE APPROPRIATE GOVERNMENT JURISDICTION.

COMPACTION REQUIREMENTS

- FOUNDATION IF TRENCH IS DRY, COMPACT TRENCH BOTTOM TO 95% SPD ASTM D698, AT ±3% OPTIMUM MOISTURE CONTENT. IF TRENCH IS WET, OVEREXCATE AND REPLACE WITH ASTM C-33 NO. 57 OR NO. 67 AGGREGATE COMPACTED TO 95% SPD ASTM D698.
 PAVED AREAS BEDDING, INITIAL BACKFILL, AND FINAL BACKFILL
- SHALL BE COMPACTED TO 95% SPD ASTM D698.

 3. NON-PAVED AREAS BEDDING AND INITIAL BACKFILL SHALL BE COMPACTED TO 95% SPD ASTM D698. FINAL BACKFILL SHALL BE COMPACTED TO 90% SPD STM D698.

Soil Clo	usses (ASTM D277	4) (A)							
01	Description	Percentage Passing Sieve Sizes							
Class	Description	1.5-in	3/8-in	No. 4	No. 200				
I	Crushed rock (B,C)	100% (D)	less than or equal to 25%	less than or equal to 15%	less than or equal to 12%				
II	Clean, coarse grained soils E,F: SW, SP, GW, GP or any soil beginning with one of these symbols				less than or equal to 12% (E)				
III	Coarse grained soils with fines: GM, GC, SM, SC, or any soil beginning with one of these symbols								
111	Sandy or gravelly fine—grained soils: CL, ML, or any soil beginning with one of these symbols				< 70%				
IV	Fine—grained soils: CL, ML, or any soil beginning with one of these symbols				> 70%				
٧	Fine—grained soils, organic soils, high compressibility silts and clays, organic soil: MH,								

(A) Soil classification descriptions and symbols are in accordance with ASTM Practice D2487 and D2488.

(B) For Class I, all particle faces shall be fractured.

(C) Additional restrictions on Class I Material particle size: The particle size of material in contact with the pipe shall not exceed the following: 1/2-in for pipe to 4-in, 3/4-in for pipes 6 to 8-in; 1-in for pipes 10 to 16-in; and 1-1/2-in for larger pipes. Each soil layer shall be sufficiently compacted to uniformly develop lateral passive soil forces during the backfill operation.

(D) Sieves and sieve cloths shall be in accordance with ASTM Specification E11.

(E) Materials such as broken coral, shells, and recycled concrete, with less than 12% passing a No. 200 sieve, should be treated as Class II soils.

(F) Uniform fine sands (SP) with more than 50% passing a No. 100 sieve are very sensitive to moisture and should not be used as backfill unless specifically allowed in the contract documents. If use of these materials is allowed, compaction and handling procedures should follow the guidelines for Class III materials.

FORCE MAIN TRENCH DETAIL - PVC (ASTM D2774)

Scale: 1" = 1'

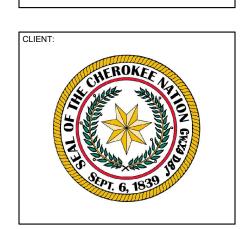
James R. Childers
Architect, Inc.

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

PROFESSIONAL SEAL:

COREY W.
LIPPS
21291
7/29/22





CHEROKEE NATION TINGS REPLACEMENT HOSP

KEY PLAN:

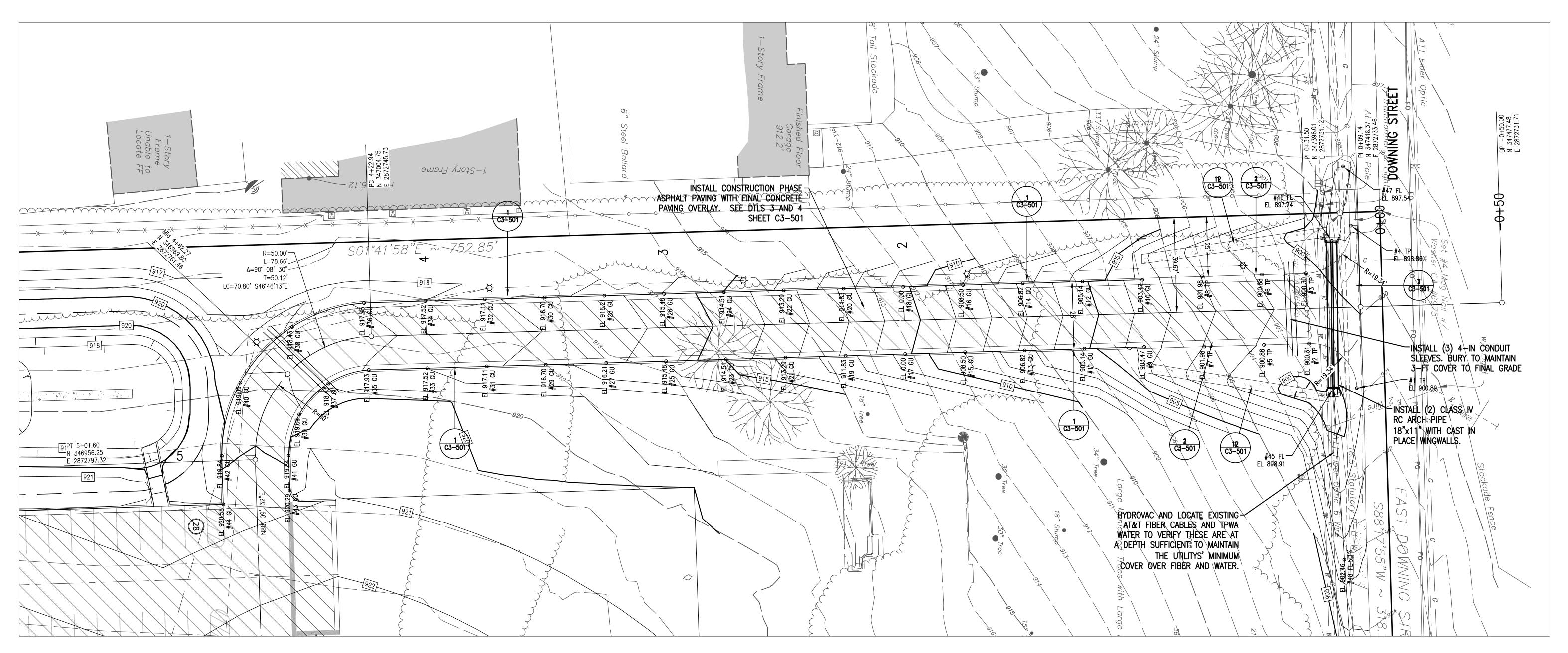
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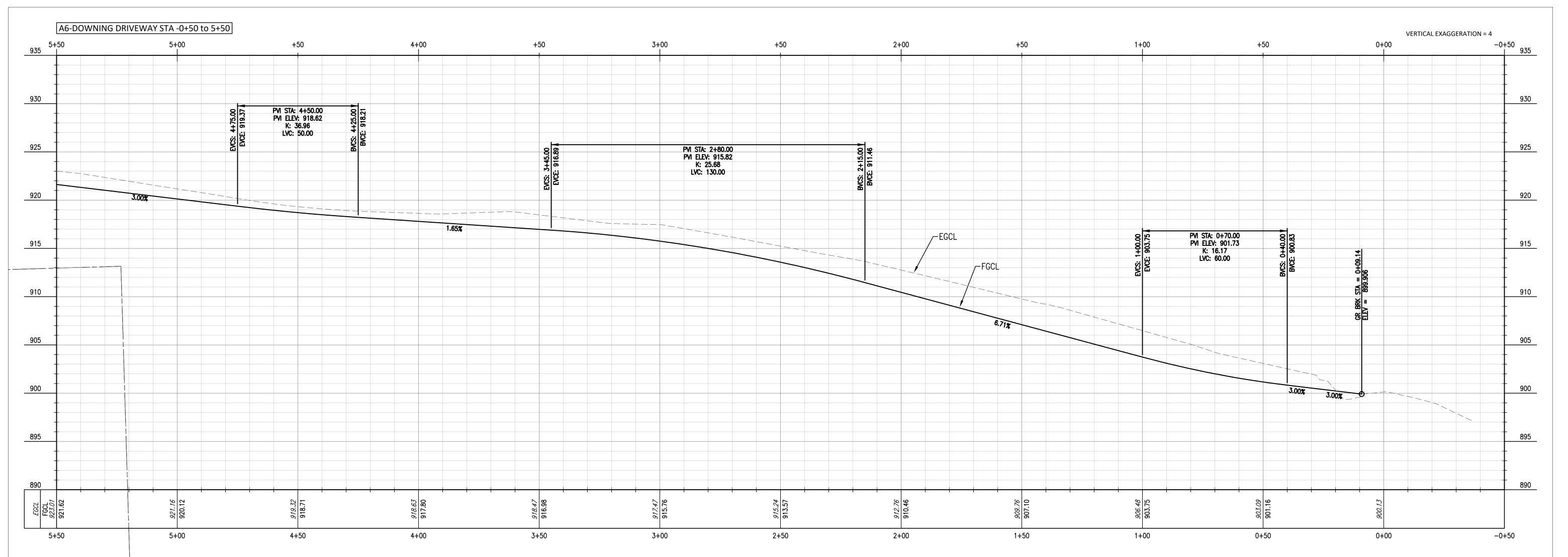
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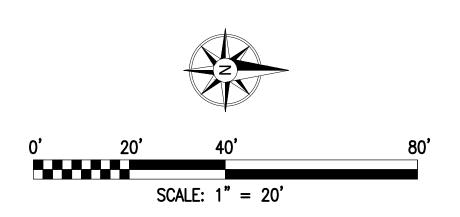
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FORCE MAIN DETAILS



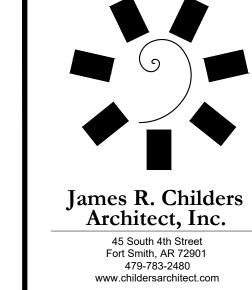


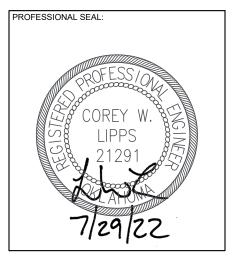


UTILITY WARNING:
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM RECORD DOCUMENTS OR FIELD LOCATIONS BY THE OPERATOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT 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.

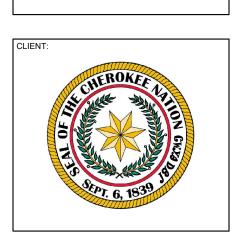
UTILITY ELEVATIONS AND SIZES MAY HAVE BEEN MEASURED UNDER ADVERSE FIELD CONDITIONS. UPON EXPOSING THE UTILITY, ELEVATIONS AND LINE SIZES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHOULD VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR OR ENGINEER. ANY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











ON ENT HOSPITAL

W.W. HASTINGS REPLACEMI

KEY PLAN:		

PROJECT PHASE:

BID PACKAGE 01
(NORTH PARKING AND ACCESS)

REVISIONS

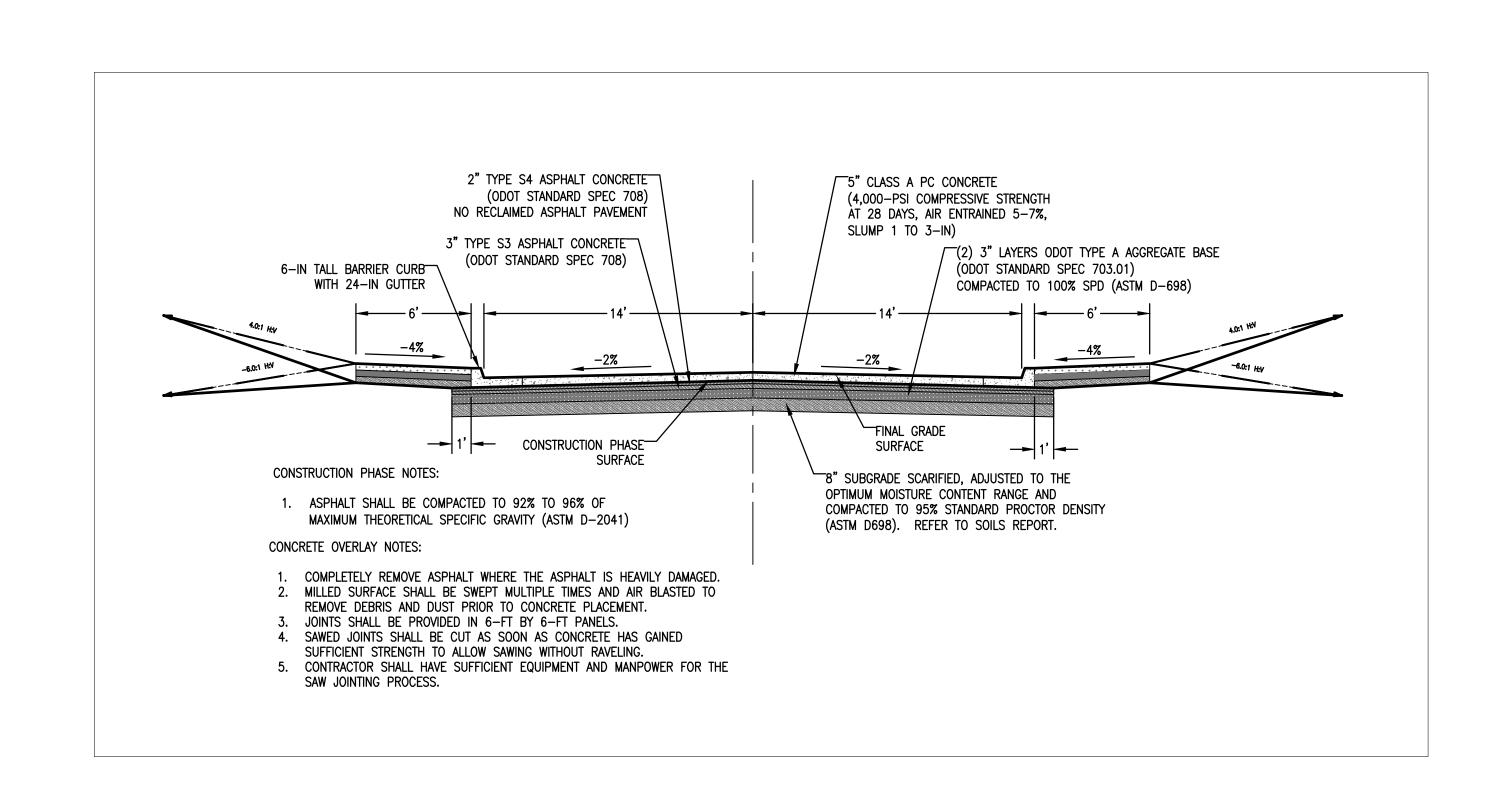
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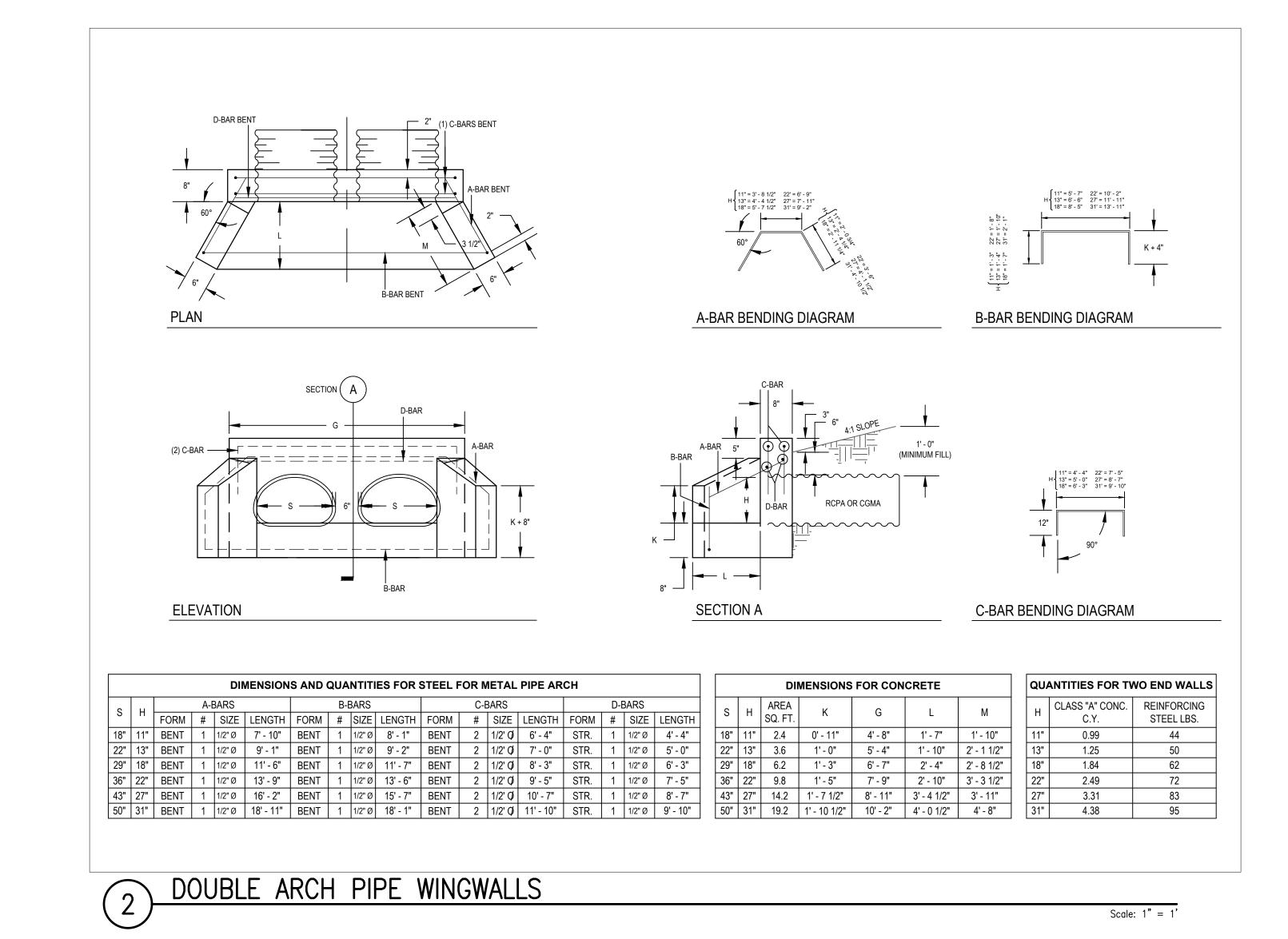
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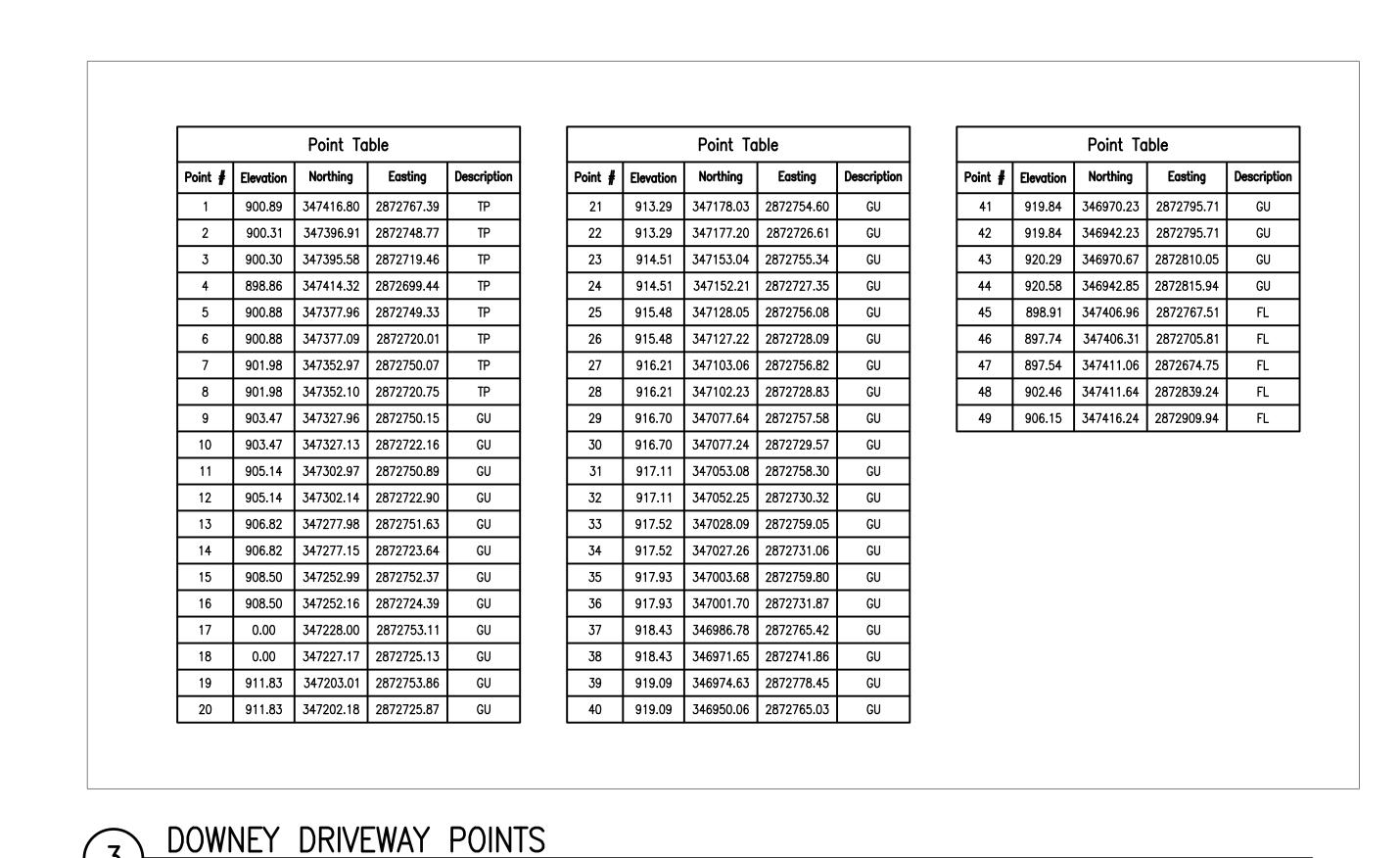
SHEET NUMBER: C9-201

DOWNING DRIVEWAY PLAN & PROFILE



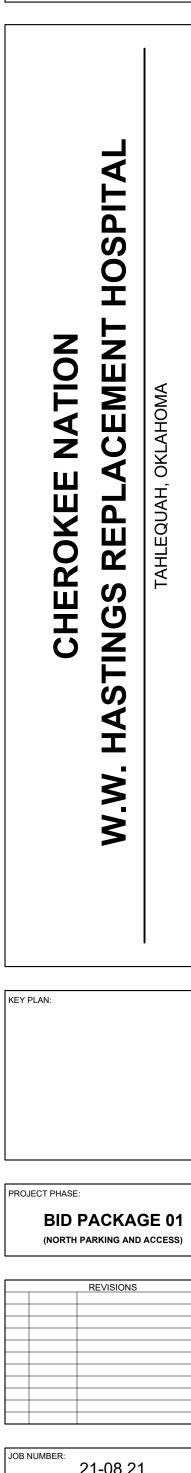
DOWNEY DRIVEWAY TYPICAL SECTION





Scale: 1" = 1'

Scale: 1" = 1'



07-29-22

C9-501

DOWNING DRIVEWAY DETAILS

James R. Childers Architect, Inc.

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

14101 Wireless Way, Suite 350 Oklahoma City, OK 73134 405-832-9900

www.parkhill.com

Oklahoma CA #4935, Expires 6/30/2023

PROFESSIONAL SEAL:

BID PACKAGE 01
(NORTH PARKING & ACCESS)

VOLUME 07 OF 11 (ELECTRICAL)



CIVIL ENGINEERING



GEOTECHNICAL ENGINEERING



HELIPAD DESIGN



LANDSCAPE ARCHITECTURE



INTERIOR ARCHITECTURE | INTERIOR DESIGN







MECHANICAL | ELECTRICAL | PLUMBING



EQUIPMENT | FURNITURE PLANING



DALLAS, TX 75214

FIRE PROTECTION | LIFE SAFETY



FOOD SERVICE



LEED CONSULTING

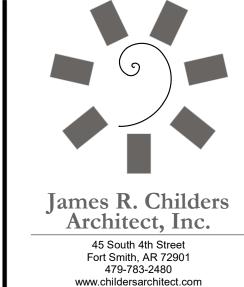


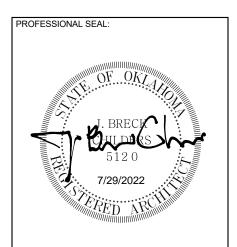
LOW-VOLTAGE | IT | SECURITY

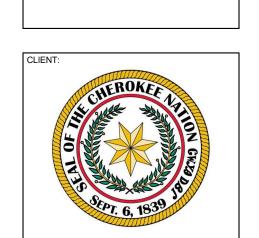


OWNERS REPRESENTATIVE

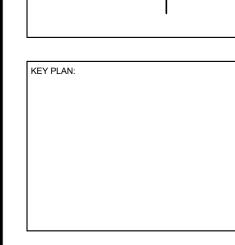








ACEMENT HOSPITAL





			REVISIONS
	#	DATE	DESCRIPTION

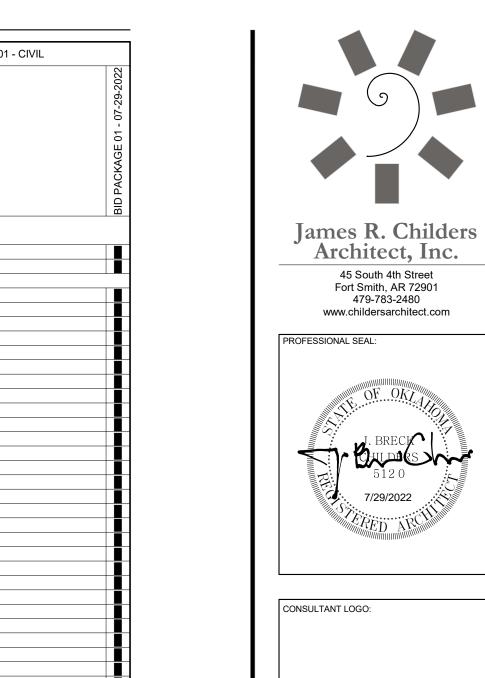
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SHEET NUMBER: VOL 07

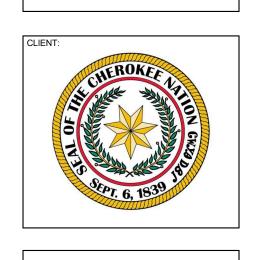
21-08.21

SHEET TITLE:

COVER SHEET

INDEX OF DRAWINGS - VOLUME 01 - CIVIL
NUMBER
GENERAL VOL 01 COVER SHEET G0.01 DRAWING INDEX
CO-102 GENERAL CIVIL NOTES - BP1 C1-103 EXISTING CONDITIONS C1-104 EXISTING CONDITIONS C1-105 EXISTING CONDITIONS
C2-106 NP DEMOLITION OVERVIEW C2-109 NP 1 DEMOLITION PLAN C2-110 NP2 DEMOLITION PLAN C2-111 NP3 DEMOLITION PLAN C2-112 NP4 DEMOLITION PLAN C2-113 NP5 DEMOLITION PLAN C2-702 NP EROSION CONTROL PLAN C2-750 EROSION CONTROL DETAILS
C3-108 NP SITE PLAN OVERVIEW C3-109 NP1 SITE PLAN C3-110 NP2 SITE PLAN C3-111 NP3 SITE PLAN C3-112 NP4 STE PLAN C3-113 NP5 SITE PLAN C3-501 SITE DETAILS C3-502 SITE DETAILS C3-503 CONCRETE PAVING JOINT DETAILS C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN
C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN C5-115 NP2 GRADING PLAN C5-116 NP3 GRADING PLAN C5-117 NP4 GRADING PLAN C5-118 NP5 GRADING PLAN C5-210 NP COORDINATES AND ELEVATIONS TABLE C6-201 NP STORM PLAN & PROFILE
C6-202 NP STORM PLAN & PROFILE 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 C6-805 STORM DRAIN DETAILS C6-802 NP EXISTING HYDROLOGY C6-803 NP DEVELOPMENT HYDROLOGY
C6-802 NP EXISTING HYDROLOGY C6-803 NP DEVELOPMENT HYDROLOGY C8-201 FORCE MAIN PLAN & PROFILE C8-501 FORCE MAIN DETAILS C9-201 DOWNING DRIVEWAY PLAN AND PROFILE C9-501 DOWNING DRIVEWAY DETAILS
Grand total: 43 INDEX OF DRAWINGS - VOLUME 07 - ELECTRICAL
H
SHEET NAME
GENERAL VOL 07 COVER SHEET G0.01 DRAWING INDEX ELECTRICAL ENL-00 ELECTRICAL LEGEND ENL-01 ELECTRICAL SITE PLAN - NORTH LOT
Grand total: 4 INDEX OF DRAWINGS - VOLUME 09 - LV/IT/SECURITY/DAS
NUMBER
SHEET NAME GENERAL VOL 09 COVER SHEET G0.01 DRAWING INDEX
SECURITY TNS1.02 NETWORK SITE PLAN - NORTH PARKING & ACCESS Grand total: 3





KEY PLAN:

PROJECT PHASE:

BID PACKAGE 01

(NORTH PARKING & ACCESS)

		REVISIONS
#	DATE	DESCRIPTION

21-08.21 07-29-2022

G0.01

DRAWING INDEX

ELECTRICAL SERVICE NOTES THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL SERVICE AND METERING REQUIREMENTS WITH THE UTILTY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AS REQUIRED BY THE SERVING UTILITY AS WELL AS COST INCURRED BY SERVING UTILITY. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FAULT CURRENT AT THE SECONDARY OF THE TRANSFORMER WITH THE UTILITY COMPANY AND ADJUST THE ELECTRICAL PANEL AIC RATINGS TO THE NEXT HIGHER STANDARD RATING. ALUMINUM SERVICE CONDUCTORS ARE NOT RECOMMENDED AND SHOULD ONLY BE USED WHERE ABSOLUTELY NECESSARY OR REQUIRED BY THE OWNER. CONTRACTOR TO CONTACT ENGINEER FOR SIZING. WHERE ALUMINUM CONDUCTORS ARE USED, THE OWNER SHALL PROVIDE ANNUAL MAINTENANCE OF ALL TERMINATIONS TO ENSURE SECURE CONNECTIONS. ALUMINUM WIRE WILL EXPAND AND CONTRACT AND OVER TIME MAY BECOME BRITTLE. THE OWNER SHALL ASSUME RESPONSIBILITY FOR USING ALUMINUM CONDUCTORS WITHOUT PROPER INSTALLATION, CARE, AND MAINTENANCE. COORDINATE ALL SERVICE AND METERING DETAILS INCLUDING ANY RELOCATION OF EXISTING UTILITY LINES WITH POWER COMPANY. CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY PAY ANY POWER COMPANY FEES CHARGED TO OWNER FOR SERVICE AND UTILITY LINE WORK ASSOCIATED WITH THIS PROJECT. THESE COSTS SHALL BE INCLUDED IN BIDS. FURNISH AND INSTALL MATERIALS FOR A TEMPORARY CONSTRUCTION SERVICE AS FURNISH AND/OR INSTALL ALL REQUIRED MATERIAL AND LABOR IN COMPLIANCE WITH POWER COMPANY REQUIREMENTS TO PROVIDE A COMPLETE ELECTRICAL SERVICE. INCLUDING TRENCHING AND BACK FILLING, PRIMARY CONDUIT, CONCRETE TRANSFORMER PAD, SECONDARY CONDUITS AND CABLES, C.T. CABINET, METERING AND GROUNDING **GENERAL LIGHTING NOTES**

- WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES.
- CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE.
- COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- ELECTRICAL CONTRACTOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR FOR BATTERY FED EMERGENCY LIGHTS: PROVIDE EMERGENCY BALLAST. PROVIDE "HOT"
- WIRE TO EMERGENCY BALLAST. SWITCH FIXTURE AS INDICATED ON PLANS. COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATABLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS. FOR GENERATOR FED EXIT AND EMERGENCY LIGHTS: CIRCUITS SHALL HAVE RELAY FUNCTION OVERRIDE LIGHTING CONTROLS, DURING GENERATOR OPERATION.

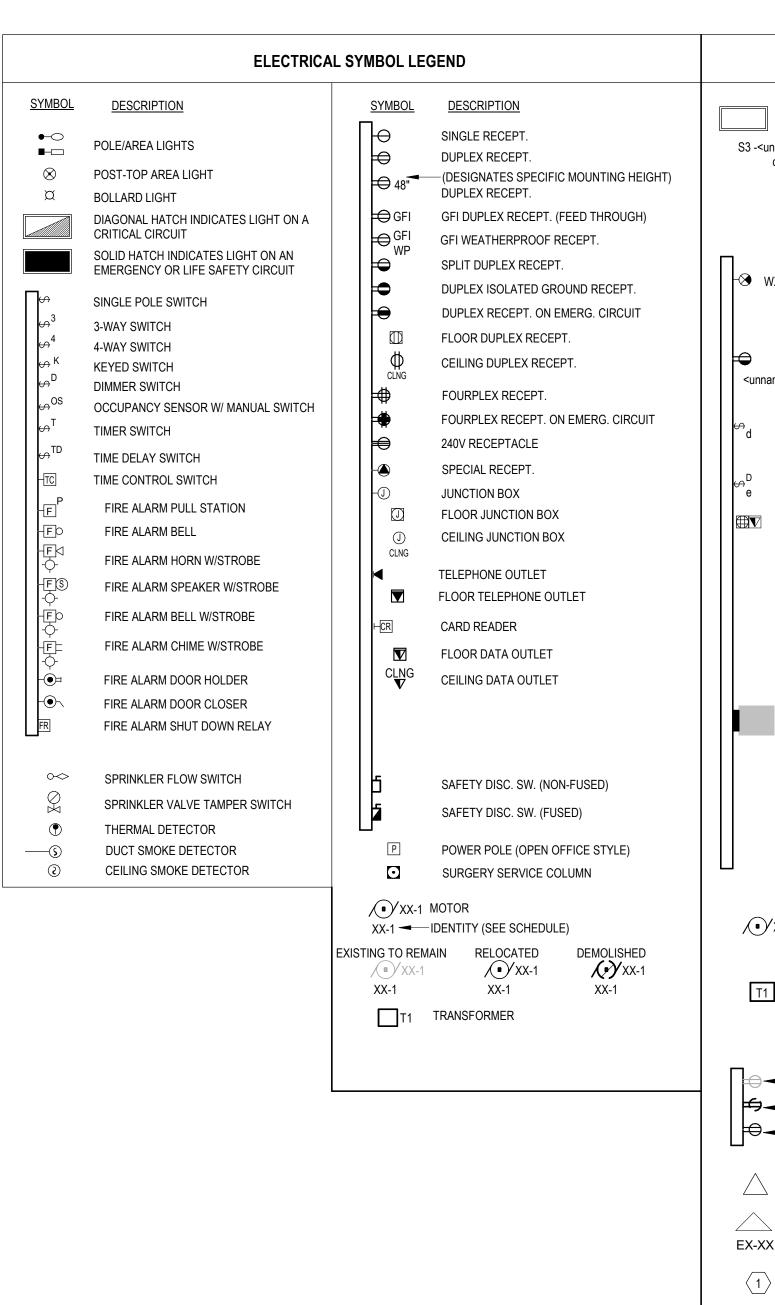
GENERAL POWER NOTES

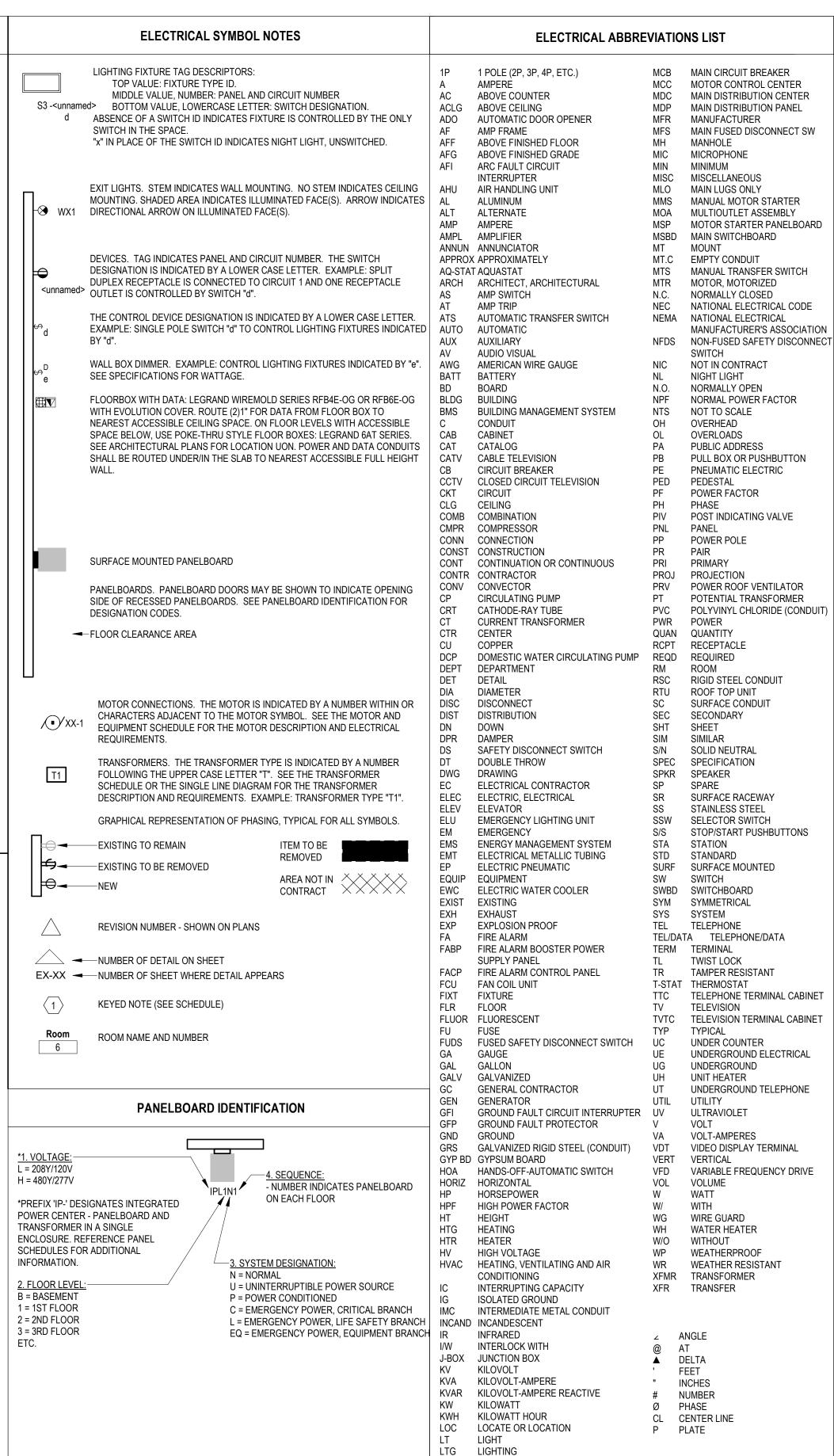
ALL RECEPTACLES SHALL BE GROUNDING TYPE ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE. COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE

MECHANICAL EQUIPMENT.

RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF

PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION, COORDINATE AND VERIFY EACH PIECE OF EQUIPMENTS POWER/CONTROL REQUIRMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL, PLUMBING, AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MARKED "GFCI PROTECTED."





LTNG LIGHTNING LV LOW VOLTAGE

MAX MAXIMUM MAG.S MAGNETIC STARTER M/C MOMENTARY CONTACT

MECHANICAL CONTRACTOR

GENERAL ELECTRICAL NOTES

DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE

CONSTRUCTION DOCUMENTS. SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS. THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS. ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED. INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER.

OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR UON. REFER TO THE TYPICAL MOUNTING HEIGHT DETAIL. INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT, WITHOUT REMOVING OR DAMAGING THE CEILING

GRID STRUCTURE. COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES, WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT. ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS. CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES NOT EXCEED 5%.

ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, ALL AUTHORITIES HAVING JUISDICTION, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L

OR EQUALLY LISTED. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.

THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED, THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR

FIRM TO PERFORM ALL REQUIRED TESTS. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS.

THAN 4-FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM THE ROOM BELOW. ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) IDENTIFICATION LABLES MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT). THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION

JUNCTION BOXES LOCATED ABOVE GRID CEILINGS SHALL BE LOCATED NO GREATER

CIRCUITS, UNLESS OTHERWISE SPECIFIED.

APPLICATION - TYPE OF CONDUIT

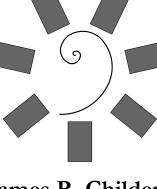
BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED STEEL ELBOWS

SERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS. SEISMIC PROTECTION FOR SEISMIC CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC USE GROUP AND SEISMIC DESIGN CATEGORY. ANY REQUIREMENTS FOR SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF SEISMIC RESTRAINTS REQUIRED FOR THE VARIOUS SYSTEM'S ELEMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS BASED ON THE RELATED SEISMIC CODE CRITERIA. THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE THAT THE ELEMENT WILL BE INSTALLED. IF REQUIRED BY LOCAL, STATE, FEDERAL CODES AND/OR OTHER AUTHORITY HAVING JURISDICTION (AHJ) THE CONTRACTOR SHALL SUBMIT DESCRIPTIVE CATALOG DATA OF SEISMIC RESTRAINTS, SHOP DRAWINGS SHOWING THE TYPES, LOCATIONS AND INSTALLATION DETAILS OF SEISMIC RESTRAINTS AND CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE.

UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH OF SYSTEM. UNDERGROUND UTILITIES/FEEDERS/BRANCH CIRCUITS/ETC. SHALL NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS DEDICATED FOR FUTURE BUILDING

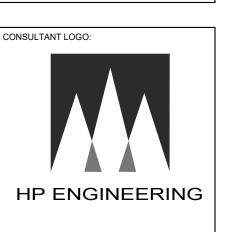
DESIGNATED SPARE CIRCUIT BREAKERS SHALL BE PLACED IN THE OFF POSITION PROVIDE EMT WITH PROPERLY INSTALLED COMPRESSION OR SET-SCREW TYPE FITTINGS AND AN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL RACEWAYS SERVING EXAM ROOMS, LABS, AND OTHER RELATED ROOMS TO COMPLY WITH NEC, HEALTHCARE FACILITIES.

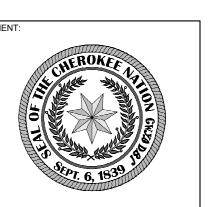


lames R. Childers Architect, Inc. 45 South 4th Street Fort Smith, AR 72901 479-783-2480

www.childersarchitect.com







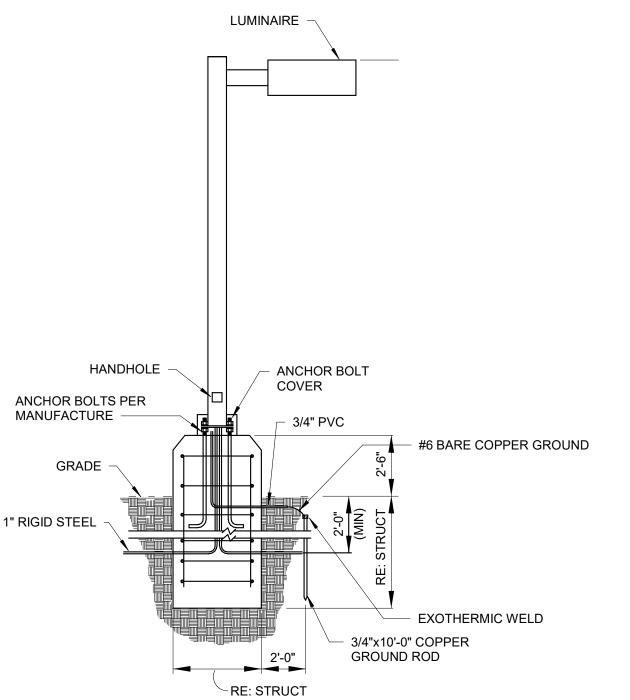
PIT

PROJECT PHASE: **BID PACKAGE 01** (NORTH PARKING & ACCESS)

REVISIONS DESCRIPTION

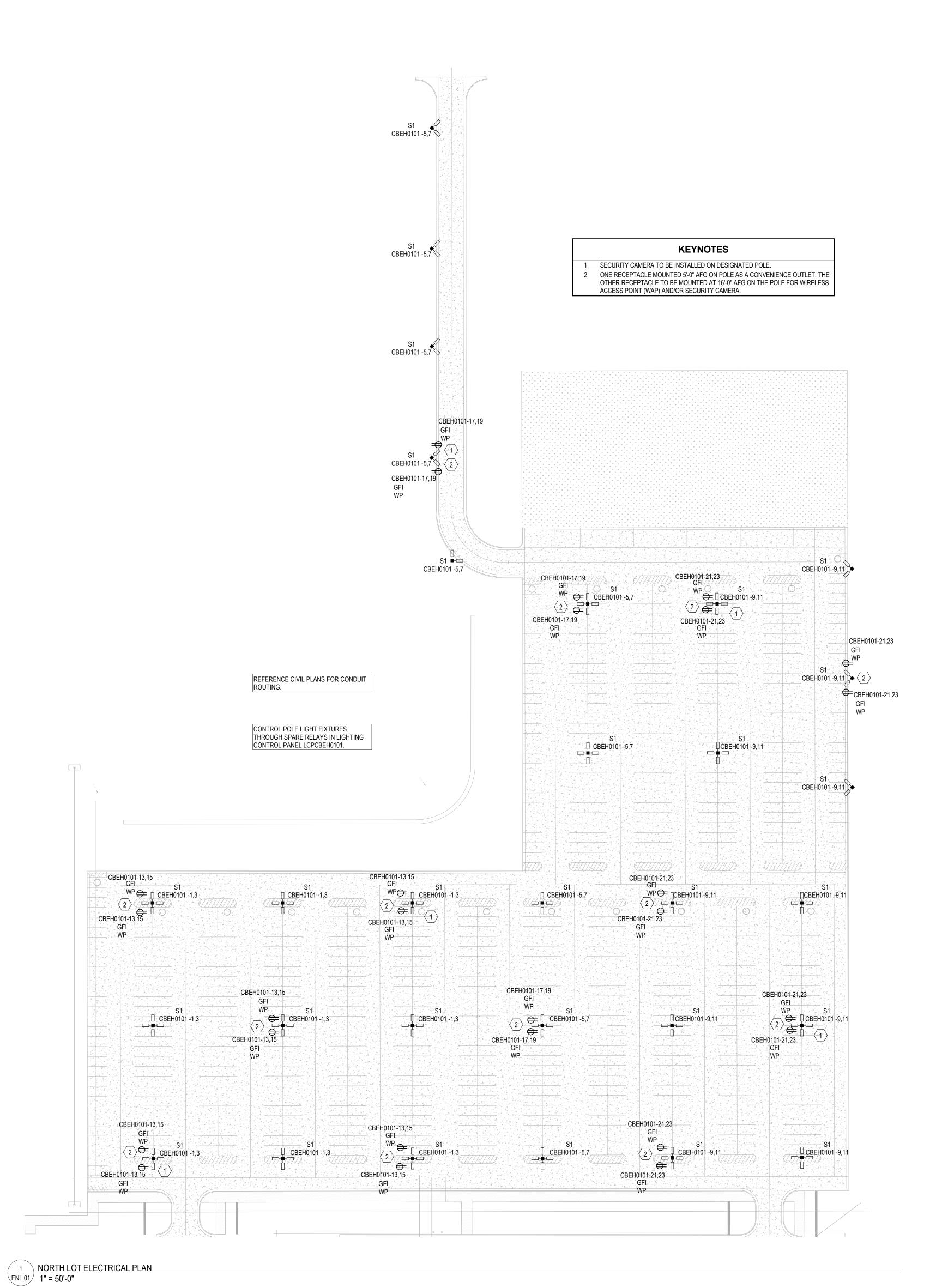
ELECTRICAL LEGEND

POLE BASE DETAIL SHOWN FOR ELECTRICAL INFORMATION AND COORDINATION ONLY



1 POLE BASE DETAIL

\ENL.00 \ 12" = 1'-0"



				NOR1	TH LOT L	IGHTIN	IG FI	XTURE \$	SCHED	ULE	
	CONSTRU	CTION		LIGH	IT SOURCE			ELECTF SOUR		PRODUCT	
TYPE	DESCRIPTION	MOUNTING	LAMP	DIMMING	LUMENS	CCT	CRI	VOLTAGE	WATTS	MFR	NOTE
S1	PARKING LOT LIGHT	30' SQUARE POLE	LED	N/A	12000	3000	70	480	85 W	LSI INDUSTRIES INC.	MRM-LED-12L-SIL-5W-HV-30-70CRI-WHT. WHITE FINISH POLE. B4-U0-G2 BUG RATING

PANELBOARD NOTES (#)

- 1. TERMINATE GROUND ON ISOLATED GROUND BUS. 2. INSTALL LOCKING DEVICE FURNISHED WITH
- PANELBOARD (LOCK-OFF FOR MAINTENANCE). 3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
- 4. GFI BREAKER FOR PERSONNEL PROTECTION
- 5. GFI BREAKER FOR EQUIPMENT PROTECTION 6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE
- HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
 7. REFER TO FAULT CURRENT SCHEDULE FOR
- AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
- 8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES. 9. FACTORY WIRED TO LOAD. 10.THRU CONTROLLER. REFER TO LIGHTING
- CONTROLLER DETAIL. 11. ADD NEW CIRCUIT BREAKER TO EXISTING PANEL. NEW CIRCUIT BREAKER SHALL MATCH AIC RATING,
- MANUFACTURER, AND TYPE OF EXISTING CIRCUIT BREAKERS. 12. MATCH AIC RATING OF SERVICING DEVICE.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS			WIR	E SIZE		
15-20	PHASE GROUND	12 12	10 10	8 8	6 6	4
25-30	PHASE GROUND	10 10	8 8	6 6	4 4	3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2
60	PHASE GROUND	6 10	4 6	3 6	2 4	1
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/
PER NE	EC 250.122(B	3)	ı		ı	

	CONSTRU	ICTION		LIGH	T SOURCE			ELECTI SOUR		PRODUCT	
YPE	DESCRIPTION	MOUNTING	LAMP	DIMMING	LUMENS	CCT	CRI	VOLTAGE	WATTS	MFR	NOTE
S1	PARKING LOT LIGHT	30' SQUARE POLE	LED	N/A	12000	3000	70	480	85 W	LSI INDUSTRIES INC.	MRM-LED-12L-SIL-5W-HV-30-70CRI-WHT. WHITE FINISH POLE. B4-U0-G2 BUG RATING

Mains Type: MLO

Mains Rating: 250 A

PANELBOARD: CBEH0101	EXISTING
Location: CNOHC ELEC ROOM 01-14-13	Volts: 480Y/277
Supply From:	Phases: 3
Mounting: SURFACE	Wires: 4

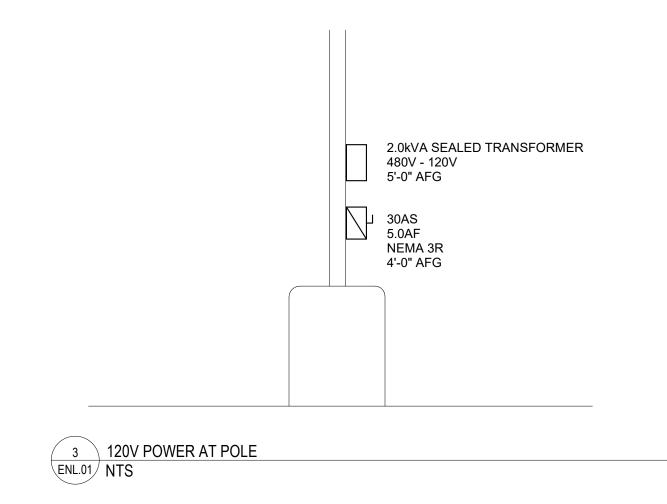
Enclosure: NEMA 3R

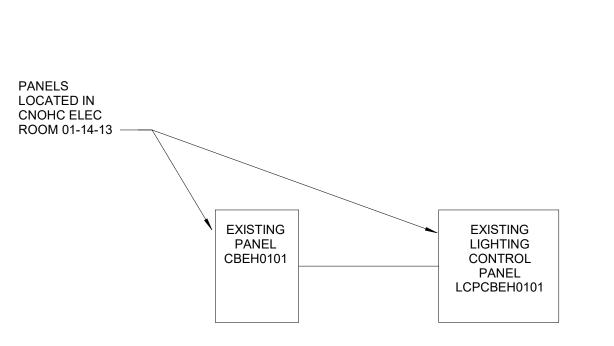
СКТ	Circuit Description	Trip	Poles	Wire		4	ı	В		С	Wire	Poles	Trip	Circuit Description	скт
1	NORTH LOT POLE LIGHTS (11)	20 A	. 2	#8	1.70 kVA	0.90 kVA									2
3	NORTH LOT POLE LIGHTS (11)	20 A	2	#0			1.70 kVA	0.81 kVA				3	20 A	EXISTING	4
5	NORTH LOT POLE LIGHTS (11)	20 A	2	#8					1.42 kVA	0.81 kVA					6
7	NORTH EOTH OLL LIGHTS (11)	20 7		#0	1.42 kVA	1.65 kVA									8
9	NORTH LOT POLE LIGHTS (11)	20 A	. 2	#8			1.79 kVA	1.65 kVA				3	20 A	A EXISTING	10
11 '	NORTH EOTH OLL LIGHTS (11)	20 7	2	#0					1.79 kVA	1.50 kVA					12
13	POLE RECEPS (11)	20 A	. 2	#8	0.90 kVA	0.68 kVA									14
15	OLL NEGLI 3 (11)	20 7		#0			0.90 kVA	0.68 kVA				3	20 A	EXISTING	16
17	POLE RECEPS (11)	20 A	. 2	#8					0.54 kVA	0.60 kVA					18
19	OLL REGER 6 (11)	20 7		#0	0.54 kVA	1.43 kVA									20
21	POLE RECEPS (11)	20 A	. 2	#8			0.90 kVA	1.73 kVA				3	20 A	EXISTING	22
23	· ,			#0					0.90 kVA	1.43 kVA					24
	SPARE	20 A			0.00 kVA	2.70 kVA									26
	SPARE	20 A					0.00 kVA	2.70 kVA				3	20 A	EXISTING	28
	SPARE	20 A							0.00 kVA	2.70 kVA					30
	SPARE	20 A	. 1		0.00 kVA	0.68 kVA						2	20 Δ	EXISTING	32
	SPARE	20 A					0.00 kVA	0.68 kVA					20 /	LAIGTING	34
35	SPARE	20 A	. 1						0.00 kVA	0.50 kVA		2	20 Δ	EXISTING	36
	SPARE	20 A			0.00 kVA	0.50 kVA									38
39 I	EXISTING	20 A	. 1				1.35 kVA	1.04 kVA				1	20 A	EXISITNG	40
41 I	EXISTING	20 A	. 1						0.20 kVA	0.99 kVA		1	20 A	EXISITNG	42
			Total	Load:	1307	7 VA		23 VA	1336	65 VA					
			Total .	Amps:	47.	2 A	57.	6 A	48	.4 A					

Legei

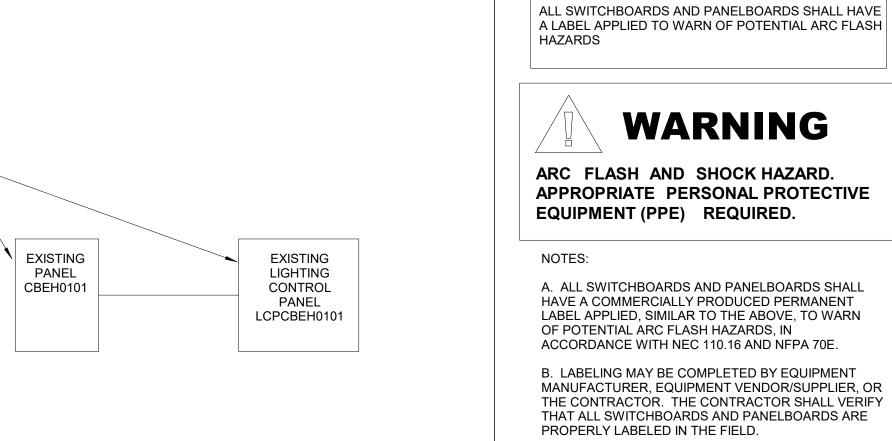
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	4680 VA	100.00%	4680 VA	
Spare	27863 VA	100.00%	27863 VA	Total Conn. Load: 42365 VA
LITES	9822 VA	125.00%	12278 VA	Total Est. Demand: 44821 VA
				Total Conn.: 51.0 A
				Total Est. Demand: 53.9 A

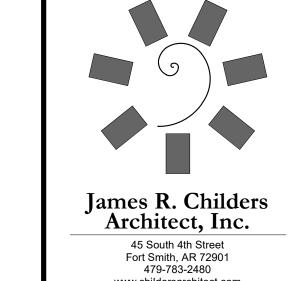
EQUIPMENT LABELS

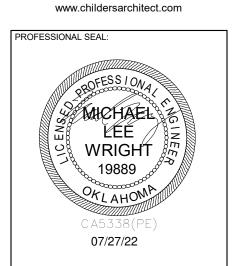


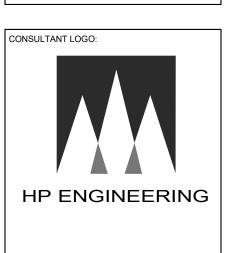


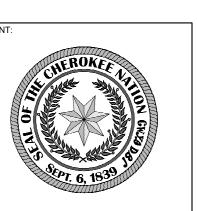
2 ONE-LINE DIAGRAM NTS











PROJECT PHASE: **BID PACKAGE 01**

REVISIONS
DATE DESCRIPTION

21-08.21 07-29-2022

JOB NUMBER:

ELECTRICAL SITE PLAN - NORTH LOT

BID PACKAGE 01

(NORTH PARKING & ACCESS)

VOLUME 09 OF 11

(AUDIO / VIDEO / DATA NETWORK / NURSE CALL / INTRUSION DETECTION / SPECIAL SYSTEMS / DAS)



CIVIL ENGINEERING



GEOTECHNICAL ENGINEERING



HELIPAD DESIGN



LANDSCAPE ARCHITECTURE



INTERIOR ARCHITECTURE | INTERIOR DESIGN





STRUCTURAL ENGINEER

MECHANICAL | ELECTRICAL | PLUMBING



EQUIPMENT | FURNITURE PLANING



FIRE PROTECTION | LIFE SAFETY



FOOD SERVICE



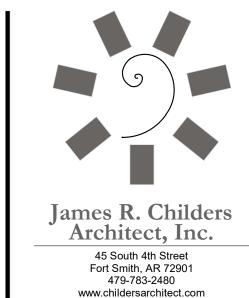
LEED CONSULTING

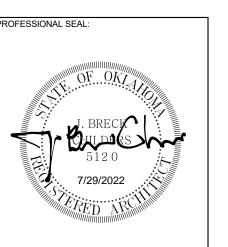


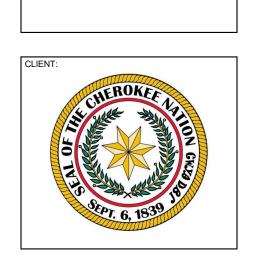


OWNERS REPRESENTATIVE

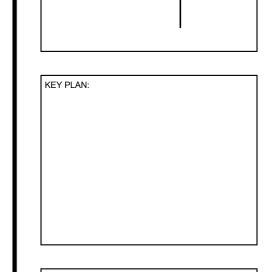


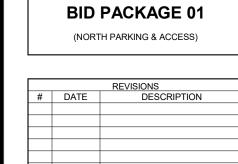






EPLACEMENT HOSPITAL





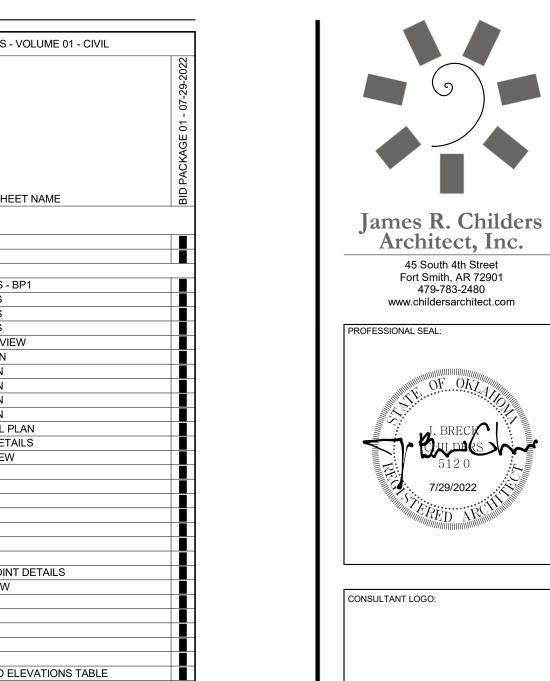
JOB NUMBER: 21-08.21

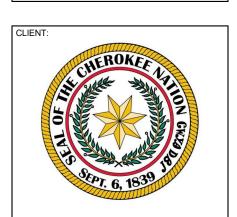
DATE: 07/05/22

SHEET NUMBER: VOL 09

COVER SHEET

INDEX OF DRAWINGS - VOLUME 01 - CIVIL
TNUMBER
SHEET NAME
VOL 01 COVER SHEET G0.01 DRAWING INDEX CIVIL C0-102 GENERAL CIVIL NOTES - BP1
C1-103 EXISTING CONDITIONS C1-104 EXISTING CONDITIONS C1-105 EXISTING CONDITIONS C2-108 NP DEMOLITION OVERVIEW C2-109 NP 1 DEMOLITION PLAN
C2-110 NP2 DEMOLITION PLAN C2-111 NP3 DEMOLITION PLAN C2-112 NP4 DEMOLITION PLAN
C2-113 NP5 DEMOLITION PLAN C2-702 NP EROSION CONTROL PLAN C2-750 EROSION CONTROL DETAILS C3-108 NP SITE PLAN OVERVIEW C3-109 NP1 SITE PLAN
C3-110 NP2 SITE PLAN C3-111 NP3 SITE PLAN C3-112 NP4 STE PLAN C3-113 NP5 SITE PLAN C3-114 NP5 SITE PLAN
C3-501 SITE DETAILS C3-502 SITE DETAILS C3-503 CONCRETE PAVING JOINT DETAILS C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN
C5-113 NP GRADING OVERVIEW C5-114 NP1 GRADING PLAN C5-115 NP2 GRADING PLAN C5-116 NP3 GRADING PLAN C5-117 NP4 GRADING PLAN C5-118 NP5 GRADING PLAN C5-210 NP COORDINATES AND ELEVATIONS TABLE C6-201 NP STORM PLAN & PROFILE C6-202 NP STORM PLAN & PROFILE
C5-210 NP COORDINATES AND ELEVATIONS TABLE C6-201 NP STORM PLAN & PROFILE C6-202 NP STORM PLAN & PROFILE 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
C6-802 NP EXISTING HYDROLOGY C6-803 NP DEVELOPMENT HYDROLOGY C8-201 FORCE MAIN PLAN & PROFILE C8-501 FORCE MAIN DETAILS C9-201 DOWNING DRIVEWAY PLAN AND PROFILE C9-501 DOWNING DRIVEWAY DETAILS
C9-501 DOWNING DRIVEWAY DETAILS Grand total: 43
INDEX OF DRAWINGS - VOLUME 07 - ELECTRICAL
F
SHEET NAME
GENERAL VOL 07 COVER SHEET G0 01 DRAWING INDEX
ELECTRICAL ENL-00 ELECTRICAL LEGEND ENL-01 ELECTRICAL SITE PLAN - NORTH LOT Grand total: 4
INDEX OF DRAWINGS - VOLUME 09 - LV/IT/SECURITY/DAS
EET NUMBER
GENERAL VOL 09 COVER SHEET G0.01 DRAWING INDEX
G0.01 DRAWING INDEX SECURITY TNS1.02 NETWORK SITE PLAN - NORTH PARKING & ACCESS Grand total: 3





PROJECT PHASE: **BID PACKAGE 01** (NORTH PARKING & ACCESS)

#	DATE	DESCRIPTION

G0.01

DRAWING INDEX

SHEET NOTES - SITE PLAN

REFERENCE SHEET TG1.1 FOR ALL SYMBOLS AND PROJECT SPECIFIC NOTES.

CONDUITS INSTALLED FOR COMMUNICATIONS CABLING SHALL OBSERVE THE FOLLOWING PRACTICES:

A. USE OF SHARP OR NINETY DEGREE BENDS ARE NOT ALLOWED. CHANGE OF DIRECTION SHALL USE WIDE SWEEPING RADIUS BENDS.

ALLOWED. CHANGE OF DIRECTION SHALL USE WIDE SWEEPING RADIUS BENDS.

B) PULL BOXES SIZED TO ACCOMMODATE CABLE BEND RADIUS SHALL BE PLACED WHEN CONDUIT CHANGES

DIRECTION AS SHOWN ON DRAWINGS.

C) CABLE PULLING TENSION SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATIONS – PULL METER SHALL BE USED TO MEASURE TENSION.

D) CONDUIT PATHWAY SHALL BE PROVIDED WITH A METALLIC TRACER WIRE WITHIN THE SAME TRENCH AS THE CONDUIT INSTALLED AT THE SAME LEVEL FOR FUTURE LOCATION PURPOSES. IN ADDITION, A WEATHER PROOF "FIBER OPTIC CABLE" MARKER TAPE SHALL BE INSTALLED AT 18" ABOVE THE CONDUIT TO NOTIFY ANYONE DIGGING IN THE EVENT AN ELECTRONIC LOCATE WAS NOT PERFORMED TO TRACE IN GROUND CONDUITS.

E) CONTRACTOR IS RESPONSIBLE FOR SEALING CONDUITS INSIDE BUILDINGS TO ENSURE NO BUILDING INGRESS OF WATER, INSECTS OR RODENTS.

F) CONDUITS SHOULD TURN NO MORE THAT AN ACCUMULATED 180 DEGREES BETWEEN TWO PULL BOXES. IF FIELD CONDITIONS REQUIRE MORE THAN AN ACCUMULATED 180 DEGREE TURN(S) BETWEEN TWO PULL BOXES THE CONTRACTOR IS REQUIRED TO ADD A THIRD PULL BOX BETWEEN THE TWO AFOREMENTIONED PULL BOXES IN A LOCATION THAT REDUCES THE TURNS BETWEEN ANY TWO OF THE PULL BOXES TO LESS THAN 180 DEGREES.

E) DIV. 26 TO PROVIDE COMMUNICATIONS PATHWAY TO MONUMENT SIGH. REFERENCE ELECTRICAL SHEETS FOR CONDUIT PLACEMENT,

KEYNOTE LEGEND (NOT ALL KEYNOTES MAY APPLY)

01. 24" X 24" X 36" ANSI, AASHTO H-20 TELECOMMUNICATIONS PULL BOX LOCATION. PULL BOX SHALL BE RATED FOR THE TERRAIN IT WILL BE INSTALLED IN. PULL BOXES INSTALLED IN PARKING LOTS OR DRIVEWAYS MUST BE RATED FOR SUCH AN ENVIRONMENT/LOAD. ALL PULL BOXES SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL. COORDINATE FINAL LOCATIONS WITH OWNER AND LANDSCAPE ARCHITECT. ACCEPTABLE MANUFACTURER IS MARTIN INDUSTRIES OR OTHER APPROVED EQUAL.

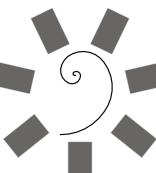
02. 4" CONDUIT WITH THREE CHAMBER MAXCELL INNERDUCT BETWEEN PULL BOX LOCATIONS.

03. LIGHT POLE LOCATION WITH WAP AND/OR SURVEILLANCE CAMERA. REFERENCE ELECTRICAL SITE PLAN FOR EXACT LOCATION.

04. FURNISH 1-1/4" CONDUIT FOR SURVEILLANCE AND/OR WIRELESS ACCESS POINT CABLING FROM PULL BOX TO LIGHT POLE.

05. FURNISH 1-1/4" CONDUIT FOR FIBER OPTIC CABLING TO MONUMENT SIGN FROM PULL BOX.

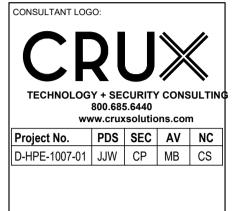
06. 24" X 24" X 36" ANSI, TIER 5 TELECOMMUNICATIONS PULL BOX LOCATION. PULL BOX SHALL BE RATED FOR THE TERRAIN IT WILL BE INSTALLED IN. PULL BOXES INSTALLED IN PARKING LOTS OR DRIVEWAYS MUST BE RATED FOR SUCH AN ENVIRONMENT/LOAD. ALL PULL BOXES SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL. COORDINATE FINAL LOCATIONS WITH OWNER AND LANDSCAPE ARCHITECT. ACCEPTABLE MANUFACTURER IS MARTIN INDUSTRIES OR OTHER APPROVED EQUAL.



James R. Childers Architect, Inc.

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







CHEROKEE NATION W.W. HASTINGS REPLACEMENT HOSPII

EY PLAN:

PROJECT PHASE:

DESIGN DEVELOPMENT

(NORTH PARKING AND ACCESS)

DATE DESCRIPTION

21-08.21

ATE: 07-29-2022

HEET NUMBER:

TNS1.02

NETWORK SITE PLAN NORTH PARKING & ACCESS

O1 SITE PLAN NORTH PARKING
1" = 50'-0"