PART 1 - GENERAL - DEWATERING312319

1.1 SUMMARY A. Section includes construction dewatering for earth excavation.

- 1.2 PERFORMANCE REQUIREMENTS
- A. Contractor to design any necessary dewatering system to complete earth excavation,
- sanitary sewers, water distribution piping and storm sewers. QUALITY ASSURANCE
- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning dewatering. Comply with hauling and disposal regulations of authorities having jurisdiction.

PART 2 - EXECUTION

- 2.1 INSTALLATION
- A. Provide temporary grading to facilitate dewatering and control of surface water. B. Monitor dewatering systems continuously C. Protect and maintain temporary erosion and sedimentation controls, which are specified in [Division 01 Section "Temporary Facilities and Controls"] [Division 31
- Section "Site Clearing" during dewatering operations. D. Before excavating below ground-water level, place system into operation to lower water to levels required to complete work. Operate system continuously until earth excavation, sanitary sewers, water distribution piping and storm sewers have been constructed and fill materials have been placed or until dewatering is no longer
- E. Provide an adequate system to lower and control ground water to permit excavation, install piping and placement of fill materials on dry subgrades. Install sufficient dewatering equipment to drain water-bearing strata above and below excavations. 1. Do not permit open-sump pumping that leads to loss of fines, soil piping, subgrade softening, and slope instability
- F. Reduce hydrostatic head in water-bearing strata below subgrade elevations of floors drains and other excavations.
- G. Provide standby equipment on site, installed and available for immediate operation, to maintain dewatering on continuous basis if any part of system becomes inadequate or fails. If dewatering requirements are not satisfied due to inadequacy or failure of dewatering system, restore damaged structures and foundation soils at no additional expense to Owner. . Remove dewatering system from Project site on completion of dewatering

END OF SECTION 312319

- SECTION 221113 FACILITY WATER DISTRIBUTION PIPING
- PART 1 GENERAL 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this
- 1.2 SUBMITTALS
- A. Product Data: For each type of product indicated. B. Shop Drawings: Detail precast or cast in place concrete vault assemblies and
- indicate dimensions, method of field assembly, and components. 1.3 SUMMARY
- A. This Section includes water-distribution piping and related components outside the

building for water service and fire-service mains. 1.4 QUALITY ASSURANCE

- B. Regulatory Regulirements
- 1. Comply with requirements of utility company supplying water. Include tapping of water mains and backflow prevention.
- 2. Comply with standards of authorities having jurisdiction for fire-suppression water-service piping, including materials, hose threads, installation, and testing.
- B. Piping materials shall bear label, stamp, or other markings of specified testing
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in
- NFPA 70, Article 100, by a testing agency acceptable to authorities having iurisdiction, and marked for intended use
- D. Comply with FMG's "Approval Guide" or UL's "Fire Protection Equipment Directory" for fire-service-main products. E. NFPA Compliance: Comply with NFPA 24 for materials, installations, tests, flushing,
- and valve and hydrant supervision for fire-service-main piping for fire suppression. F. NSF Compliance: 1. Comply with NSF 61 for materials for water-service piping and specialties for

domestic water. 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Preparation for Transport: Prepare valves, including fire hydrants, according to the
- 1. Ensure that valves are dry and internally protected against rust and corrosion. 2. Protect valves against damage to threaded ends and flange faces. . Set valves in best position for handling. Set valves closed to prevent rattling.
- B. During Storage: Use precautions for valves, including fire hydrants, according to the 1. Do not remove end protectors unless necessary for inspection; then reinstall for
- 2. Protect from weather. Store indoors and maintain temperature higher than ambient dew-point temperature. Support off the ground or pavement in watertight enclosures when outdoor storage is necessary.
- C. Handling: Use sling to handle valves and fire hydrants if size requires handling by crane or lift. Rig valves to avoid damage to exposed parts. Do not use handwheels or stems as lifting or rigging points.
- D. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture
- E. Protect stored piping from moisture and dirt. Elevate above grade. Do not exceed structural capacity of floor when storing inside.
- F. Protect flanges, fittings, and specialties from moisture and dirt. G. Store plastic piping protected from direct sunlight. Support to prevent sagging and

1.6 PROJECT CONDITIONS

A. Interruption of Existing Water-Distribution Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary water-distribution service according to requirements indicated 1. Notify Owner no fewer than two days in advance of proposed interruption of

1.7 COORDINATION

- A. Coordinate connection to water main with utility company. PART 2 - PRODUCTS
- 2.1 DUCTILE-IRON PIPE AND FITTINGS

A. Mechanical-Joint, Ductile-Iron Pipe: AWWA C151 and AWWA C115, with mechanical-joint bell and plain spigot end unless grooved or flanged ends are indicated. All ductile iron pipe and fittings shall be lined in accordance with AWWA

- 1. Mechanical-Joint, Ductile-Iron Fittings: AWWA C110, ductile- or gray-iron standard pattern or AWWA C153, ductile-iron compact pattern
- 2. Glands, Gaskets, and Bolts: AWWA C111, ductile- or gray-iron glands, rubber gaskets, and steel bolts

B. Flanges: ASME 16.1, Class 125, cast iron.

2.2 JOINING MATERIALS A. Refer to Division 22 Section "Common Work Results for Plumbing" for commonly used ioining materials

2.3 PVC PIPE MATERIALS A. PVC pipe material shall be Class 160 - SDR 26.

Locating wire shall be 12 gauge, insulated, direct burial copper wire. Splices shall be made with a connector specifically designed for 12 gauge copper wire and shall be waterproof and suitable

for direct burial.

Water Meters - AWWA C700

Fire Hydrants - C502 and Section 45 and Standard Drawing No. 11 of the

Specifications For Water and Sewer Main Construction in Illinois

Gate Valves - AWWA C509

Fittings - AWWA C110 or C153 2.4 GATE VALVES

- A. AWWA, Cast-Iron Gate Valves
- 1. Manufacturers: Subject to compliance with governing agencies' requirements, provide products by one of the following or equivalent:
- a. American AVK Co.; Valves & Fittings Div
- b. American Cast Iron Pipe Co.; American Flow Control Div. c. American Cast Iron Pipe Co.; Waterous Co. Subsidiary.

d. Crane Co.; Crane Valve Group; Stockham Div.

- e. East Jordan Iron Works, Inc.
- f. McWane, Inc.; Clow Valve Co. Div. (Oskaloosa).
- g. McWane, Inc.; Kennedy Valve Div. h. McWane, Inc.; M & H Valve Company Div
- McWane, Inc.; Tyler Pipe Div.; Utilities Div
- Mueller Co.; Water Products Div. . NIBCO INC.

I. U.S. Pipe and Foundry Company.

- 2.5 GATE VALVE ACCESSORIES AND SPECIALTIES
- A. Valve Boxes: All Gate valve boxes shall be built to conform to the specifications and dimensions for valve box on file at the offices of the department of water. B. Indicator Posts: UL 789, FMG-approved, vertical-type, cast-iron body with operating wrench, extension rod, and adjustable cast-iron barrel of length required for depth of
- burial of valve 2.6 WATER METERS
- A. Manufacturers:
- 1. Available Manufacturers: Subject to compliance with governing agencies, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- a. AMCO Water Metering Systems
- b. Badger Meter, Inc. c. Carlon Meter.
- d. Hays Fluid Controls; a division of ROMAC Industries Inc.

- e. McCrometer. f. Mueller Co.; Hersey Meters g. Neptune Technology Group Inc.
- h. Sensus Metering Systems. 2.7 WATER METER VAULTS
- A. Description: All meter vaults shall be built to conform to the plans and specifications. Precast, reinforced concrete vault or a cast in place reinforced concrete vault shall be provided. This meter vault shall be provided with a cast iron cover frame and removable cast iron cover.
- 2.7 FIRE HYDRANTS A. A. Wet-Barrel Fire Hydrants
- 1. Fire hydrants to be provided are shown on the plans and conform to the City of New Baden subdivision requirements. PART 3 - EXECUTION
- 3.1 EARTHWORK

other supports.

construction

AWWA M41

3.7 VALVE INSTALLATION

instructions.

3.10 CONNECTIONS

requirements

two hours.

3.12 IDENTIFICATION

3.13 CLEANING

to valves and equipment

Electrical Systems."

Conductors and Cables."

3.11 FIELD QUALITY CONTROL

leakage is within allowed limits.

Results for Plumbing" for identifying devices.

A. Clean and disinfect water-distribution piping as follows

been altered, extended, or repaired before use

described in AWWA C651 or do as follows:

remains in water coming from system

B. Prepare reports of purging and disinfecting activities.

SECTION 221313 - FACILITY SANITARY SEWERS PART 1 - GENERAL

Nonpressure and pressure couplings

3. Expansion joints and deflection fittings.

END OF SECTION 221113

1.1 RELATED DOCUMENTS

1. Pipe and fittings.

Backwater valves.

6. Encasement for piping

1.3 DELIVERY, STORAGE, AND HANDLING

5. Cleanouts.

1.4 PROJECT CONDITIONS

Section.

A. Section Includes

1.2 SUMMARY

water until dirty water does not appear at points of outlet.

ppm of chlorine; isolate and allow to stand for 24 hours

C. Prepare reports of testing activities.

3.8 WATER METER INSTALLATION

3.9 CONCRETE VAULT INSTALLATION

3.6 JOINT CONSTRUCTION

- A. Refer to Division 31 Section "Earth Moving" for excavating, trenching, and backfilling. 3.2 PIPING APPLICATIONS A. General: Use pipe, fittings, and joining methods for piping systems according to the
- following applications. B. Transition couplings and special fittings with pressure ratings at least equal to piping pressure rating may be used, unless otherwise indicated
- C. Do not use flanges or unions for underground piping. D. Flanges, unions, grooved-end-pipe couplings, and special fittings may be used, instead
- of joints indicated, on aboveground piping and piping in vaults
- E. Underground water-service piping NPS 4 to NPS 8 shall be the following: 1. Ductile-iron, mechanical-joint fittings and mechanical joints.
- F. Water Meter Box Water-Service Piping NPS 3/4 to NPS 2 shall be same as underground water-service piping.
- G. Underground Fire-Service-Main Piping NPS 4 to NPS 12 shall be the following: 1. Ductile-iron, mechanical-joint fittings; and mechanical joints. 3.3 VALVE APPLICATIONS
- A. General Application: Use mechanical-joint-end valves for NPS 3 and larger underground installation. Use threaded- or flanged-end valves for installation in vaults. Use UL/FMG, nonrising-stem gate valves for installation with indicator posts. Use corporation valves and curb valves with ends compatible with piping, for NPS 2 and smaller installation.
- 3.4 PIPING SYSTEMS COMMON REQUIREMENTS A. See Division 22 Section "Common Work Results for Plumbing" for piping-system
- common requirements 3.5 PIPING INSTALLATION A. Water-Main Connection: Arrange with utility company for tap of size and in location
- indicated in water main. 1. Box. B. Install ductile-iron, water-service piping according to AWWA C600 and AWWA M41.
- 1. Install PE corrosion-protection encasement according to ASTM A 674 or AWWA C. Install piping by tunneling or jacking, or combination of both, under streets and other
- obstructions that cannot be disturbed. D. Extend water-service piping and connect to water-supply source and
- building-water-piping systems at outside face of building wall in locations and pipe sizes indicated 1. Terminate water-service piping at building wall until building-water-piping systems are installed. Terminate piping with caps, plugs, or flanges as required for piping
- material. Make connections to building-water-piping systems when those systems are installed E. Sleeves are specified in Division 22 Section "Sleeves and Sleeve Seals for Plumbing

. See Division 22 Section "Domestic Water Piping" for potable-water piping inside the

1. Ductile-Iron Piping, Gasketed Joints for Water-Service Piping: AWWA C600 and

grooved-end, ductile-iron-piping couplings, gaskets, lubricant, and bolts according to

materials, with OD, and with system working pressure. Refer to Division 22 Section

A. See Division 22 Section "Common Work Results for Plumbing" for basic piping joint

2. Ductile-Iron Piping, Gasketed Joints for Fire-Service-Main Piping: UL 194.

3. Ductile-Iron Piping, Grooved Joints: Cut-groove pipe. Assemble joints with

4. Dissimilar Materials Piping Joints: Use adapters compatible with both piping

A. AWWA Gate Valves: Comply with AWWA C600 and AWWA M44. Install each

A. Install water meters, piping, and specialties according to utility company's written

underground valve with stem pointing up and with valve box.

indicate general arrangement of piping, fittings, and specialties

A. Install precast concrete vaults according to ASTM C 891.

pressure to stabilize system. Use only potable water

"Common Work Results for Plumbing" for joining piping of dissimilar metals.

B. AWWA Valves Other Than Gate Valves: Comply with AWWA C600 and AWWA M44.

A. Piping installation requirements are specified in other Division 22 Sections. Drawings

B. See Division 22 Section "Common Work Results for Plumbing" for piping connections

C. Connect water-distribution piping to utility water main according to the water company's

D. Connect water-distribution piping to interior domestic water and fire-suppression piping.

E. Ground equipment according to Division 26 Section "Grounding and Bonding for

A. Piping Tests: Conduct piping tests before joints are covered and after concrete thrust

B. Hydrostatic Tests: Test at not less than one-and-one-half times working pressure for

blocks have hardened sufficiently. Fill pipeline 24 hours before testing and apply test

Increase pressure in 50-psig increments and inspect each joint between increments.

pressure and hold for 1 more hour. Maximum allowable leakage is 2 quarts per

A. Install continuous underground warning tape during backfilling of trench for

underground water-distribution piping. Locate below finished grade, directly over

piping. Underground warning tapes are specified in Division 31 Section "Earth

B. Permanently attach equipment nameplate or marker indicating plastic water-service

piping, on main electrical meter panel. See Division 22 Section "Common Work

1. Purge new water-distribution piping systems and parts of existing systems that have

Use purging and disinfecting procedure prescribed by authorities having jurisdiction

or, if method is not prescribed by authorities having jurisdiction, use procedure

3. Use purging and disinfecting procedure prescribed by authorities having jurisdiction

or, if method is not prescribed by authorities having jurisdiction, use procedure

a. Fill system or part of system with water/chlorine solution containing at least 50

b. Drain system or part of system of previous solution and refill with water/chlorine

d. Submit water samples in sterile bottles to authorities having jurisdiction. Repeat

c. After standing time, flush system with clean, potable water until no chlorine

procedure if biological examination shows evidence of contamination.

Supplementary Conditions and Division 01 Specification Sections, apply to this

A. Drawings and general provisions of the Contract, including General and

A. Do not store plastic manholes, pipe, and fittings in direct sunlight.

A. Interruption of Existing Sanitary Sewerage Service: Do not interrupt service to

facilities occupied by Owner or others unless permitted under the following conditions

and then only after arranging to provide temporary service according to requirements

B. Protect pipe, pipe fittings, and seals from dirt and damage.

solution containing at least 200 ppm of chlorine; isolate and allow to stand for 3

described in NFPA 24 for flushing of piping. Flush piping system with clean, potable

Hold at test pressure for 1 hour; decrease to 0 psig. Slowly increase again to test

hour per 100 joints. Remake leaking joints with new materials and repeat test until

F. Connect wiring according to Division 26 Section "Low-Voltage Electrical Power

- F. Mechanical sleeve seals are specified in Division 22 Section "Sleeves and Sleeve Seals for Plumbing Piping."
- G. Install underground piping with restrained joints at horizontal and vertical changes in direction. Use restrained-joint piping, thrust blocks, anchors, tie-rods and clamps, and

H. See Division 21 Section "Water-Based Fire-Suppression Systems" for

fire-suppression-water piping inside the building.

coupling manufacturer's written instructions.

B. Make pipe joints according to the following:

PART 2 - PRODUCTS

2.1 PVC PIPE AND FITTINGS

A. PVC Water-Service Piping

for flexible seals

flexible seals.

2.2 BACKWATER VALVES

A. PVC Backwater Valves:

c NDS

2.3 CLEANOUTS

A. PVC Cleanouts:

PART 3 - EXECUTION

3.2 PIPING INSTALLATION

flow is prohibited

drawing.

units to sidewalls.

3.5 CLEANOUT INSTALLATION

foot-traffic

pavement surface.

3.6 CONNECTIONS

direction of flow in sewer pipe

indisturbed ground.

may accumulate

either procedure below:

use wood plugs

underground manholes.

3.9 FIELD QUALITY CONTROL

at completion of Project.

hours' advance notice

having jurisdiction.

allowances specified.

procedure below:

3.8 IDENTIFICATION

3.1 FARTHWORK

a. Canplas LLC.

b. IPS Corporation

swing check valve.

a. Canplas LLC.

NDS.

b. IPS Corporation

B. PVC Water-Service Piping:

1. Pipe: ASTM D 1785, ASTM D 3034, type PSM for sized 4" to 15". Standard dimension ration (SDR) shall be a minimum 35. Pipe joints shall be solvent welded joints per ASTM D 2855 or flexible elastomeric seals per ASTM D 3212 2. Fittings: ASTM D 3034 with flexible elastomeric seals per ASTM D 3212 for

1. Pipe: ASTM D 1785, ASTM D 2665, ASTM D 2672, CSA CAN/CSA-B 137.3 Schedule 40 PVC, with plain ends for solvent-cemented joints. 2. Fittings: ASTM D 3311, Schedule 40 PVC, socket type.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

d. Plastic Oddities; a division of Diverse Corporate Technologies, Inc. e. Sioux Chief Manufacturing Company, Inc. Zurn Light Commercial Products Operation; Zurn Plumbing Products Group.

2. Description: Horizontal type; with PVC body, PVC removable cover, and PVC

1. Manufacturers: Subject to compliance with requirements of the governing agencies, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

d. Plastic Oddities; a division of Diverse Corporate Technologies, Inc. e. Sioux Chief Manufacturing Company, Inc. Zurn Light Commercial Products Operation; Zurn Plumbing Products Group.

2. Description: PVC body with PVC threaded plug. Include PVC sewer pipe fitting and riser to cleanout of same material as sewer piping.

A. Excavating, trenching, and backfilling are specified in Division 31 Section "Earth

A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground sanitary sewer piping. Location and arrangement of piping layout take into account design considerations. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.

B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for using lubricants, cements, and other installation requirements. C. Install proper size increasers, reducers, and couplings where different sizes or

materials of pipes and fittings are connected. Reducing size of piping in direction of D. When installing pipe under streets or other obstructions that cannot be disturbed, use pipe-jacking process of microtunneling.

E. Install gravity-flow, nonpressure, drainage piping according to the following: 1. Install piping pitched down in direction of flow, at a slope as indicated on the

F. Clear interior of piping of dirt and superfluous material as work progresses. Maintain swab or drag in piping, and pull past each joint as it is completed. Place plug in end of incomplete piping at end of day and when work stops. 3.3 PIPE JOINT CONSTRUCTION

A. Join gravity-flow, nonpressure, drainage piping according to the following: 1. Join PVC gravity sewer piping according to ASTM D 2321 and ASTM D 3034 for elastomeric-seal joints or ASTM D 3034 for elastomeric-gasket joints. 3.4 BACKWATER VALVE INSTALLATION

A. Install horizontal-type backwater valves in piping manholes or pits. B Install combination horizontal and manual gate valves in piping and in manholes C. Install terminal-type backwater valves on end of piping and in manholes. Secure

A. Install cleanouts and riser extensions from sewer pipes to cleanouts at grade. Use cast-iron soil pipe fittings in sewer pipes at branches for cleanouts, and use cast-iron soil pipe for riser extensions to cleanouts. Install piping so cleanouts open in

1. Use Light-Duty, top-loading classification cleanouts in earth or unpaved

2. Use Medium-Duty, top-loading classification cleanouts in paved foot-traffic

3. Use Heavy-Duty, top-loading classification cleanouts in vehicle-traffic service B. Set cleanout frames and covers in earth in cast-in-place-concrete block, 18 by 18 by 12 inches deep. Set with tops 1 inch above surrounding grade. C. Set cleanout frames and covers in concrete pavement and roads with tops flush with

A. Connect nonpressure, gravity-flow drainage piping to building's sanitary building drains specified in Division 22 Section "Sanitary Waste and Vent Piping." B. Make connections to existing piping and underground manholes.

1. Use commercially manufactured wye fittings for piping branch connections Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye fitting plus 6-inch overlap with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.

2. Make branch connections from side into existing piping, NPS 4 to NPS 20. Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.

3. Make branch connections from side into existing piping, NPS 21 or larger, or to underground manholes by cutting opening into existing unit large enough to allow 3 inches of concrete to be packed around entering connection. Cut end of connection pipe passing through pipe or structure wall to conform to shape of and be flush with inside wall unless otherwise indicated. On outside of pipe or manhole wall, encase entering connection in 6 inches of concrete for minimum length of 12 inches to provide additional support of collar from connection to

4. Protect existing piping and manholes to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that

3.7 CLOSING ABANDONED SANITARY SEWER SYSTEMS A. Abandoned Piping: Close open ends of abandoned underground piping indicated to remain in place. Include closures strong enough to withstand hydrostatic and earth pressures that may result after ends of abandoned piping have been closed. Use

1. Close open ends of piping with threaded metal caps, plastic plugs, or other acceptable methods suitable for size and type of material being closed. Do not

B. Abandoned Manholes: Excavate around manhole as required and use either

1. Remove manhole and close open ends of remaining piping. C. Backfill to grade according to Division 31 Section "Earth Moving."

A. Materials and their installation are specified in Division 31 Section "Earth Moving." Arrange for installation of green warning tapes directly over piping and at outside edges of underground manholes

1. Use detectable warning tape over nonferrous piping and over edges of

A. Inspect interior of piping to determine whether line displacement or other damage has occurred. Inspect after approximately 24 inches of backfill is in place, and again

1. Defects requiring correction include the following: a. Alignment: Less than full diameter of inside of pipe is visible between

b. Deflection: Flexible piping with deflection that prevents passage of ball or cylinder of size not less than 92.5 percent of piping diameter. c. Damage: Crushed, broken, cracked, or otherwise damaged piping.

d. Infiltration: Water leakage into piping. e. Exfiltration: Water leakage from or around piping.

2. Replace defective piping using new materials, and repeat inspections until defects are within allowances specified.

Reinspect and repeat procedure until results are satisfactory. B. Test new piping systems, and parts of existing systems that have been altered,

extended, or repaired, for leaks and defects. 1. Do not enclose, cover, or put into service before inspection and approval. 2. Test completed piping systems according to requirements of authorities having

3. Schedule tests and inspections by authorities having jurisdiction with at least 24

4. Submit separate report for each test. 5. Hydrostatic Tests: Test sanitary sewerage according to requirements of

authorities having jurisdiction and the following: a. Fill sewer piping with water. Test with pressure of at least 10-foot head of water, and maintain such pressure without leakage for at least 15 minutes. b. Close openings in system and fill with water. c. Purge air and refill with water.

Disconnect water supply.

 Test and inspect joints for leaks. 6. Air Tests: Test sanitary sewerage according to requirements of authorities

Leaks and loss in test pressure constitute defects that must be repaired. D. Replace leaking piping using new materials, and repeat testing until leakage is within

3.10 CLEANING A. Clean dirt and superfluous material from interior of piping. Flush with potable water.

END OF SECTION 221313

SECTION 311000 - SITE CLEARING PART 1 - GENERAL

1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY A. Section Includes:

- Removing above- and below-grade site improvements. 2. Disconnecting, capping or sealing, and abandoning site utilities in place.
- B. Related Sections: 1. Division 01 Section "Temporary Facilities and Controls" for temporary utility services, construction and support facilities, security and protection facilities 2. Division 01 Section "Execution" for field engineering and surveying. 3. Division 01 Section(s) "Construction Waste Management and Disposal for additional LEED requirements.
- 1.3 DEFINITIONS A. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms
- B. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil. C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing in-place surface soil and is the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel,
- and other objects more than 2 inches in diameter; and free of subsoil and weeds, roots, toxic materials, or other nonsoil materials. D. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction, and indicated on Drawings E. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be
- protected during construction, and defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated. F. Vegetation: Trees, shrubs, groundcovers, grass, and other plants. 1.4 MATERIAL OWNERSHIP
- A. Except for stripped topsoil and other materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site. 1.5 PROJECT CONDITIONS
- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations. 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. 2. Provide alternate routes around closed or obstructed traffic ways if required by
- Owner or authorities having jurisdiction. B. Utility Locator Service: Notify utility locator service for area where Project is located before site clearing. C. Soil Stripping, Handling, and Stockpiling: Perform only when the topsoil is dry or

slightly moist. PART 2 - PRODUCTS 2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Division 31 Section "Earth Moving." 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.
- PART 3 EXECUTION 3.1 PREPARATION
- A. Protect existing site improvements to remain from damage during construction. 1. Restore damaged improvements to their original condition, as acceptable to Owner
- 3.2 EXISTING UTILITIES A. Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place. 1. Arrange with utility companies to shut off indicated utilities.
- B. Locate, identify, and disconnect utilities indicated to be abandoned in place. C. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
- 1. Do not proceed with utility interruptions without Architect's written permission. 3.3 SITE IMPROVEMENTS A. Remove existing above- and below-grade improvements as indicated and
- necessary to facilitate new construction. B. Remove slabs, paving, curbs, gutters, and aggregate base as indicated. 1. Unless existing full-depth joints coincide with line of demolition, neatly saw-cut
- along line of existing pavement to remain before removing adjacent existing pavement. Saw-cut faces vertically, 3.4 DISPOSAL OF SURPLUS AND WASTE MATERIALS
- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property END OF SECTION 311000

SECTION 312000 - EARTH MOVING PART 1 - GENERAL

1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section

1.2 SUMMARY

- A. Section Includes 1. Stripping topsoil under building and pavement areas.
- 2. Preparing subgrades for pavements, turf and grasses, and plants.
- 3. Excavating and backfilling for buildings and structures. 4. Excavating and backfilling trenches for utilities and pits for buried utility structures. B. Related Sections:
- 1. Division 01 Section "Execution" for field engineering and surveying. 2. Divisions 21, 22, 23, 26, 27, 28, and 33 Sections for installing underground mechanical and electrical utilities and buried mechanical and electrical structures. 3. Division 31 Section "Site Clearing" for site stripping, grubbing, stripping and
- stockpiling topsoil, and removal of above- and below-grade improvements and 4. Division 31 "Lime Soil Stabilization" for lime modified soil.
- 5. Division 32 Section "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas. 1.3 DEFINITIONS
- A. Backfill: Soil material or controlled low-strength material used to fill an excavation. 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
- Final Backfill: Backfill placed over initial backfill to fill a trench. B. Base Course: Aggregate layer placed between the sub-base course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill. E. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
- 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
- 2. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in 3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized
- excavation, as well as remedial work directed by Architect, shall be without additional compensation F. Fill: Soil materials used to raise existing grades.
- G. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface
- H. Sub-base Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk. I. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below sub-base, drainage fill, drainage course, or topsoil materials.
- J. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.
- 1.4 SUBMITTALS A. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows: Classification according to ASTM D 2487
- 2. Laboratory compaction curve according to ASTM D 698. 1.5 PROJECT CONDITIONS
- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations. 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
- 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction B. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations
- C. Dust Control: Contractor to minimize dust during earthwork operations by wetting subarade.

PART 2 - PRODUCTS 2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations

- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, according to ASTM D 2487, Groups A-1, A-2-4, A-2-5, and A-3 accord M 145, or a combination of these groups; free of rock or gravel larger t any dimension, debris, waste, frozen materials, vegetation, and other
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, and PT according to ASTM D 2487, Groups A-2-6, A-2-7, A-4, A-5, Aaccording to AASHTO M 145 or a combination of these groups Unsatisfactory soils also include satisfactory soils not maintained
- of optimum moisture content at time of compaction. D. Sub-base Material: Naturally or artificially graded mixture of natural or gravel, crushed stone, and natural or crushed sand; ASTM D 2940; w percent passing a 1-1/2-inch sieve and not more than 12 percent pass
- E. Base Course: Naturally or artificially graded mixture of natural or crus crushed stone, and natural or crushed sand; ASTM D 2940; with at lea passing a 1-1/2-inch sieve and not more than 8 percent passing a No

4.4

3.4

3.5

4.0

в. С.	Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, Groups A-1, A-2-4, A-2-5, and A-3 according to AASHTO M 145, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, Groups A-2-6, A-2-7, A-4, A-5, A-6, and A-7 according to AASHTO M 145, or a combination of these groups.	 4.5 GRADING A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated. 1. Provide a smooth transition between adjacent existing grades and new grades. 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances. B. Site Bough Grading: Slope grades to direct water away from buildings and to 	THESE DOCUMENTS ARE THE EXCLUSIVE PROPERTY OF MICHAEL E. NEIKIRK, PE AND THEREBY PROTECTED UNDER COPYRIGHT LAWS. ALL ORIGINAL DESIGNS, SPECIFICATIONS AND IDEAS REPRESENTED HERE ARE FOR THE SOLE USE OF THIS PROJECT AND SHALL NOT BE REPRODUCED OR ALTERED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF MICHAEL E. NEIKIRK, PE. Copyright 2021 Michael E. Neikirk, PE. All rights reserved.		
D.	 Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction. Sub-base Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 	 B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances: 1. Turf or Unpaved Areas: Plus or minus 1 inch. 2. Walks: Plus or minus 1 inch. 	REVISIONS		
E. F.	sieve. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch sieve and not more than 8 percent passing a No. 200 sieve. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent	 Pavements: Plus or minus 1/2 inch. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge. SUBBASE AND BASE COURSES UNDER PAVEMENTS Place sub-base course and base course on subgrades free of mud, frost, snow, or ice. 	NO.	DESCRIPTION	DATE
G.	passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch (25-mm) sieve and not more than 8 percent passing a No. 200 sieve.	 B. On prepared subgrade, place sub-base course and base course under pavements as follows: 1. Shape sub-base course and base course to required crown elevations and cross-slope grades. 2. Place sub-base course and base course 6 inches or less in compacted 			
H. I.	Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand: ASTM D 448; coarse-aggregate grading Size 67; with 100	 thickness in a single layer. Place sub-base course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick. Compact sub-base course and base course at optimum moisture content to 			
J. K.	percent passing a 1-inch sieve and 0 to 5 percent passing a No. 4 sieve. Sand: ASTM C 33; fine aggregate. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.	 required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698. 4.7 FIELD QUALITY CONTROL A. Testing Agency: Testing agency will be employed by owner. B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed 			
PAR1 3.1	T 3 - EXECUTION PREPARATION Protect structures, utilities, sidewalks, payaments, and other facilities from demage	work comply with requirements. C. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2022, and ASTM D 2037, as applicable. Tests will be			
A. B.	caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations. Protect and maintain erosion and sedimentation controls during earth moving operations.	 performed at the following locations and frequencies: 1. Paved and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft or less of paved area or building 			
C. 3.2	Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials. STRIPPING TOPSOIL	 slab, but in no case fewer than three tests. Foundation Wall Backfill: At each compacted backfill layer, at least one test 	СО	NSTRUCTION DOCUMENTS	11/29/22
A.	Strip 2 inches to 3 inches of topsoil below building and pavement before and filling operations	 for every 100 feet or less of wall length, but no fewer than two tests. 3. Trench Backfill: At each compacted initial and final backfill layer, at least one test for 			
3.3 A.	EXCAVATION, GENERAL Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials	every 150 feet or less of trench length, but no fewer than two tests. D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified			
may or t	y include rock, soil materials, and obstructions. No changes in the Contract Sum the Contract Time will be authorized for rock excavation or removal of obstructions.	compaction is obtained. 4.8 PROTECTION A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing,			
3.4 A.	 If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials. EXCAVATION FOR WALKS AND PAVEMENTS Excavate surfaces under walks and pavements to indicated lines, cross sections, 	 and erosion. Keep free of trash and debris. B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions. 1 Seartify or remove and replace settlemeterial to depth as directed by Arabitration. 			
3.5	subgrades. EXCAVATION FOR UTILITY TRENCHES Evolution to indicated gradients, linear doubts, and showing	 County of remove and replace soli material to depth as directed by Architect; reshape and recompact. C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional call material, compact, and accurately additional call material. 			
А. Р	 Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line. Trench Bottoms: Excavate trenches 4 inches descent them bettoms: finite. 	 surfacing, backing with additional soil material, compact, and reconstruct surfacing. 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate ovidence of rectoration to greatest substance. 			
В.	conduit elevations to allow for bedding course. Hand-excavate deeper for bells of pipe.	 Work, and eliminate evidence of restoration to greatest extent possible. 4.9 DISPOSAL OF SURPLUS AND WASTE MATERIALS A. Remove surplus satisfactory soil and waste materials, including unsatisfactory 	N	MCHAELE NEIKIG	
3.6 A.	SUBGRADE INSPECTION Notify Architect or Testing Agency when excavations have reached required subgrade.	soil, trash, and debris, and legally dispose of them off Owner's property. END OF SECTION 312000			
В.	If Architect or Testing Agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.	SECTION 321216 - ASPHALT PAVING PART 1 - GENERAL		306 North Market Street, Ste Mt Carmel II 62863	e 101
C.	Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify	 1.1 RELATED DOCUMENTS A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this 		Phone: (618) 263-4100	0
sof	t pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.	Section. 1.2 SUMMARY A. Section Includes:	SCALE:	NTS	
	 beinpictery proof for darginate in our darged and in our darged and proof of the intervention of the interventintervention of the intervention of the intervention of the int	 Hot-mix asphalt patching. Hot-mix asphalt paying 		IBY: RM	
D.	Authorized additional excavation and replacement material will be paid for according	 3. Pavement-marking paint. B. Related Sections: 1. Division 02 Section "Structure Demolition" for demolition, removal, and requiring 	CHECK	ED BY: TJL	
E.	to Contract provisions for changes in the Work. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional	 Division 02 Section "Structure Demolition" for demolition, removal, and recycling of existing asphalt pavements, and for geotextiles that are not embedded within courses of asphalt paving. 		ER: Michael E. Neikirk	
3.7	compensation. UNAUTHORIZED EXCAVATION	Division 31 Section "Earth Moving" for aggregate sub-base and base courses and for aggregate payament chaulders.	ARCIIII	Lot. IDesign	
Α.	Fill unauthorized excavation under foundations or wall footings by extending	 Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers 	OWNEF	8: Bluegrass Hospitality (Group
A. elev	Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top vation. Lean	 Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers at paving terminations. DEFINITION 	OWNEF	Bluegrass Hospitality (Group
A. elev app	Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top vation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when proved by Architect. 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect	 a. Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers at paving terminations. 1.3 DEFINITION A. Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms. 1.4 SUBMITTALS A. Product Data: For each type of product indicated. Include technical data and tested physical and performance properties. 1. Job-Mix Designs: Certification by authorities having jurisdiction of approval of 	OWNEF	Bluegrass Hospitality (Group
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A. elev app 3.8 A. 4.0 A. B. 4.1	 Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top vation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when proved by Architect. 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Architect. STORAGE OF SOIL MATERIALS Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust. 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees. BACKFILL Place and compact backfill in excavations promptly, but not before completing the following: 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation. 2. Surveying locations of underground utilities for Record Documents. 3. Testing and inspecting underground utilities. 4. Removing concrete formwork. 5. Removing trash and debris. 6. Removing temporary shoring and bracing, and sheeting. 7. Installing permanent or temporary horizontal bracing on horizontally supported walls. Place backfill on subgrades free of mud, frost, snow, or ice. UTILITY TRENCH BACKFILL 	 Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers at paving terminations. DEFINITION A Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms. SUBMITTALS Product Data: For each type of product indicated. Include technical data and tested physical and performance properties. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work. Qualification Data: For each paving material, from manufacturer. Material Certificates: For each paving material. GUALITY ASSURANCE Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by authorities having jurisdiction. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of the local agency for asphalt paving work. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section. Deliver pavement-marking materials to Project site in original packages with seals unbroken and bearing manufacturer's labels containing brand name and type of material, date of manufacture, and directions for storage. Store pavement-marking materials in a clean, dry, protected location within temperature range required by manufacturer. Protect stored materials from direct sunlight. 	OWNEF	E Bluegrass Hospitality (Group
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A. elev app 3.8 A. 3.8 A. 4.0 A. 4.0 A. E. D. E. E. E. E. B. 4.2 A. B. 4.2 A. B. 4.3 A.	Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top vation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when proved by Archited. 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Archited. STORAGE OF SOIL MATERIALS Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust. STORAGE OF SOIL MATERIALS MACHIL Place and compact backfill in excavations promptly, but not before completing the following: . Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation. Surveying locations of underground utilities for Record Documents. Testing and inspecting underground utilities. Removing trash and debris. Removing trash and debris. Removing trash and debris. Removing theory storing and brazing, and sheeting. Installing permanent or temporary horizontal bracing on horizontally supported walts. Place backfill on subgrades free of mud, frost, snow, or ice. UTILITY TRENCH BACKFILL Place under footings with satisfactory soil, fill with concrete to elevation of bottom of footings with satisfactory soil, fill with concrete to elevation of bottom of footings with satisfactory soil, fill with concrete to altorating. Place and compact hedding of sub-base material, free of particles larger than inches of bottom of soling out whith satisfactory soil wither encludes as for joints, and bartels of pipes and along the full length of pipe are conduit. Concrete is specified in Division 03 Section "Cast-in-Place Concrete." Backfill voids with satisfactory soil while removing shoring and bracing. Place and compact fielding of undergreund utilities resting. Place and compact field in Division 03 Section "Cast-in-Place Concrete." Backfill voids with satisfacto	 Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers at paving terminations. DEFINITION Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms. SUBMITTALS Product Data: For each type of product indicated. Include technical data and tested physical and performance properties. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work. Qualification Data: For each paving material, from manufacturer. Material Test Reports: For each paving material, from manufacturer. Material Test Reports: For each paving material, from manufacturer registered with and approved by authorities having jurisdiction. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements: of the local agency for asphalt paving work. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section. DELIVERY, STORAGE, AND HANDLING DELIVERY, STORAGE, AND HANDLING Requiremental marking materials in a clean, dry, protected location within temperature range required by manufacturer. Protect stored materials from direct stanlight. PROJECT CONDITIONS Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damy. If rain is imminent or expected before time required for adequate cure, or if the following conditions are not met: Reproduct Data: Store pavement-marking materials and on texceeding 35 deg F. Tack Coat: Minimum surface temperature of 60 deg F. Take Coat: Minimum surface temperature of 40 deg F and rising at time of placement.<!--</td--><td>OWNER CER</td><td>Bluegrass Hospitality (Bluegrass Hospitality (MICHAEL E. NEIKIRK NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-2005010000 BU PE-2005010000 BU PE-2005010000 BU PE-2005010000 BU PE-200501000000000000000000000000000000000</td><td>Group</td>	OWNER CER	Bluegrass Hospitality (Bluegrass Hospitality (MICHAEL E. NEIKIRK NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU NUMBER PE-2005010805 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-200501000 BU PE-2005010000 BU PE-2005010000 BU PE-2005010000 BU PE-2005010000 BU PE-200501000000000000000000000000000000000	Group
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