

WAC 197-11-960: SEPA Environmental Checklist***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

A. Background**1. Name of proposed project, if applicable:**

South 360th Street at Military Road South Roundabout Project #1131235

2. Name of applicant/lead agency:

King County Department of Local Services (DLS), Road Services Division (Roads)

3. Address and phone number of applicant and contact person:Contact Person:

Broch Bender, Communications Manager
206-263-1189, bbender@kingcounty.gov
King Street Center (Mail Stop: KSC-LS-0315)
201 South Jackson Street
Seattle, WA 98104-3856

Project website address: [Kingcounty.gov/ MilitaryRoadS360th](https://kingcounty.gov/MilitaryRoadS360th)

4. Date checklist prepared: This checklist was prepared March 2022.**5. Agency requesting checklist:** King County DLS, Roads**6. Proposed timing or schedule (including phasing, if applicable):**

The project's construction schedule is dependent on acquisition of permits, approvals, and property needs. It is anticipated that construction of the project would begin in 2024 and be completed in 2025. Timing for work within critical areas will be limited to what is allowed per the project's permit and approval conditions. Mitigation planting for unavoidable impacts to site vegetation will generally occur in the fall or winter following construction.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Additional right-of-way may be purchased for a second future southbound lane. This future improvement would be completed when the single lane roundabout is nearing capacity, which is anticipated to occur 20-30 years from now.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The following environmental information was prepared for this project:

- *Single Lane Roundabout, S 360th Street and Military Road S (Project 1141625), Full Drainage Review, January 11, 2022, King County*
- *Preliminary Critical Areas Report, South 360th Street and Military Road South Roundabout CIP 1131235, June 2021, King County*
- *S 360th St and Military Road S, Technical Information Report, April 2021, KPFF*
- *S 360th St @ Military Rd S Roundabout Project Geotechnical Investigation, August 25, 2020, King County*

The following additional environmental information is anticipated to be prepared for this project:

- Cultural Resources Survey
- Wetland In-Lieu Fee Program Plan
- Critical Areas Mitigation Monitoring Plan

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

Roads is unaware of any applications pending government approval of other proposals directly affecting the property covered by this proposal.

10. List any government approvals or permits that will be needed for your proposal, if known.

The following permits, approvals, reviews, and file documentation are anticipated for the project:

Federal:

- National Environmental Policy Act (NEPA) Documented Categorical Exclusion
- U.S. Army Corps of Engineers (USACE) Clean Water Act Section 404 Nationwide Permit

Federal/State:

- National Historic Preservation Act Section 106 Concurrence by the Washington State Department of Historic Preservation and Tribes

State:

- Washington State Department of Ecology (Ecology) Construction Stormwater General Permit
- State Environmental Policy Act (SEPA):
 - Determination of Non-significance
 - Notice of Action Taken

King County:

- DLS, Permitting Division:
 - Clearing and Grading Permit
 - Critical Area Alterations Exception
- Executive:
 - Equity and Social Justice Documentation
 - Green Building Ordinance Documentation

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The South 360th Street at Military Road South Roundabout Project is designed to improve traffic flow and safety at this intersection for motorized and non-motorized travelers in southern King County. This intersection was identified for improvements by King County's *High Collision Location Report* in 2016. Roundabouts are effective at reducing collision rates at busy intersections and provide traffic calming for local neighborhoods. The intersection is presently controlled by a two-way stop along South 360th Street. The northbound left turning traffic and eastbound left turning traffic must compete with heavy southbound traffic on Military Road South during the afternoon commute. Installation of a roundabout at this project location is intended to reduce collisions and reduce queue times for traffic turning onto Military Road South from South 360th Street.

Within the project limits, Military Road South is a two-lane principal arterial that is generally aligned north to south. The roadway consists of two 11-foot-wide asphalt concrete pavement (ACP) lanes with approximately 5-foot-wide ACP shoulders. South 360th Street is a two-lane minor arterial consisting of two 11-foot-wide lanes with ACP shoulders varying in width from 0 to 5 feet. South 360th Street is aligned east to west, connecting to Federal Way to the west and the Spider Lake community to the east.

The roundabout project design will include widened shoulders and sidewalks for non-motorized use, pedestrian splitter islands, crosswalks, signs, guardrails, and illumination. Ramps designed to Americans with Disabilities Act standards will be included at designated crossing locations. The project includes utility relocations, drainage improvements, water quality treatment (i.e., stormwater wetlands), roadside restoration, and mitigation planting for impacts to wetland buffers. Off-site mitigation for impacts to wetlands is also proposed through payment and coordination with the King County In-Lieu Fee Mitigation Program. The project is in the final design phase.

The project will occur within King County right-of-way, as well as on portions of adjacent private parcels: 3751604040, 3751604003, 3751603963, 3751603971, 3751604259, 3751604201, 3751604173, 3751604181, 3751604155, 3751604151, 3751604144, 3751604145, 3750600012, 3751604185, 3751604189, 3751604163, and 3751604187.

King County and the Federal Highway Administration are funding the project. The total project cost is estimated at approximately \$4,150,000 with \$3,125,000 estimated for construction. Construction will be performed by a contractor.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The South 360th Street at Military Road South Roundabout Project is located in unincorporated King County, west of the City of Algona, Washington. The project site occurs within the northeast and southeast quarters of Section 27 within Township 21N and Range 04E, Willamette Meridian. The geographic coordinates for the project site are latitude 47.659 North and longitude 121.966 West. A Project Location Map is shown on the attached Plan Sheet 1.

B. Environmental Elements**1. Earth**

a. **General description of the site (circle one):** flat, rolling, hilly, steep slopes, mountainous, other _____

b. **What is the steepest slope on the site (approximate percent slope)?**

Most of the site is relatively flat. The steepest slope on the site has a slope of approximately 20 percent along the southwestern portion of the project area.

c. **What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.**

The general soil type found at the project site is Vashon Till (Qvt), which is a silty/sandy mix. Wetland soils were found adjacent to the roadway in the northeast and southeast corners of the site. Agricultural soils are not mapped in the vicinity nor were observed during on-site investigations. Agricultural soils will not be affected by the proposed construction.

d. **Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.**

There are no surface indications or history of unstable soils in the immediate vicinity of the project. The project area does not occur within mapped seismic or erosion hazard critical areas.

e. **Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.**

- The total project area, including stockpiling and staging areas, is anticipated to be approximately 203,600 square feet (4.7 acres). This total project area will be graded.
- The approximate volume of fill proposed for the total project is 2,900 cubic yards. King County's Materials Lab will confirm fill is from approved sources.
- The approximate total volume of material that will be excavated from the site is 4,890 cubic yards. Excavated material that is not suitable for reuse on-site will be hauled off-site to an appropriate disposal site.

f. **Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Erosion could occur due to vegetation removal, ground-disturbing activities, and rerouting of stormwater during construction. Seasonal weather conditions could impact the severity of erosion. Temporary erosion and sedimentation control (TESC) Best Management Practices (BMPs), as well as permanent site restoration measures, will be implemented to minimize potential erosion. Please see Section B.1.h of this checklist for specific proposed measures to reduce and control construction-related erosion.

g. **About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

- The total project area is 203,600 square feet (4.7 acres).
- Existing impervious surface within the project limits is primarily paving and is estimated to be 47,013 square feet (1.1 acres), which is approximately 23 percent of the site.
- Existing impervious surface that will be replaced is estimated to be 46,486 square feet (1.1 acres).

- New impervious surface is estimated to be 82,446 square feet (1.9 acres).
- The percent of the site that will be covered with new plus replaced impervious surfaces after construction is 63 percent.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Construction: During construction, the area of ground disturbance will be minimized to the extent practicable to reduce the potential for erosion. TESC BMPs include, but are not limited to, the use of straw wattles, compost socks, coir logs, dust control, compost blankets, and seeding areas that are temporarily disturbed by construction. Surficial groundwater, if encountered, and stormwater will be bypassed and isolated around the construction zone. Sediment-laden water from groundwater and/or stormwater will be isolated and pumped to vegetated areas for dispersion, pumped into a Baker tank to settle sediments prior to releasing water to a stable dispersion area, or hauled off-site.

Operation: Following construction, disturbed areas that are not converted to impervious conditions will be amended or covered with topsoil, then seeded or planted.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Greenhouse Gas Emissions: Construction, operations, and maintenance of the roadway will result in the release of greenhouse gas (GHG) emissions that contribute to global warming and related climate change concerns. Life cycle GHG emissions for the project include embodied, operational, and construction emissions defined as follows:

- Embodied emissions are the emissions released during the extraction, processing, and transportation of the materials used in construction.
- Construction emissions are released during project construction and primarily come from fuel burned by the equipment used to build the project elements, such as bulldozers, pavers, and rollers.
- Operational and maintenance emissions are released by vehicles and equipment used to maintain the site and during their travel to and from the site following completion of the repairs.
- Using the attached GHG Emissions Calculator, Lifespan Emissions are estimated at 3,709 metric tons of carbon dioxide equivalent (MTCO_{2e}).

Fugitive Dust Emissions: Demolition of asphalt concrete pavement, excavation, or placement of imported aggregates may result in sources of fugitive dust that can reduce roadway visibility, cause respiratory health problems in humans/animals, and negatively impact aquatic life, vegetation, and water quality.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No off-site sources of emissions or odors have been identified that may affect this proposal.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

During construction the contractor will implement a Fugitive Dust Control Plan. Mitigation measures for project impacts to air quality and GHG emissions during construction and maintenance of the roadway may include, but are not limited to, the following:

- Spraying water, when necessary, during construction operations to reduce emissions of fugitive dust.
- Covering dirt, gravel, and debris piles as needed to reduce fugitive dust and wind-blown debris.

- Covering open-bodied trucks in accordance with RCW 46.61.655, wetting materials in trucks, or providing adequate space from the top of the material to the top of the truck to reduce fugitive dust emissions.
- Wetting and sweeping public roadways, when necessary, to remove mud and dirt deposits.
- Using biodiesel or ultra-low-sulfur diesel fuels for vehicles and equipment to reduce diesel exhaust emissions.
- Conservation and reuse of construction materials on-site to reduce exhaust emissions and traffic delays.
- Enforcing King County's no-idling policy for county vehicles.

3. Water

a. Surface Water:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

Watershed: The project is located within Water Resource Inventory Area (WRIA) 10 – Puyallup-White and within the Lower White River sub-basin.

Wetlands: Category III wetlands were delineated within and adjacent to the project area. The critical area buffer of these wetlands is 80 feet.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

The project requires work in, or within 200 feet, of the adjacent project waters (i.e., wetlands) described in Section 3.a.1 of this checklist. See attached plans for details.

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

The estimated the amount of fill material that would be placed in the Category III wetland is 63 cubic yards within 1,178 square feet (0.03 acre). The source of fill material is gravel borrow for the roadway sub grade.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

The project will not require surface water withdrawals or diversions.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

The project is not within a mapped FEMA 100-year floodplain or floodway.

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No waste materials will be discharged to surface waters.

b. Groundwater:

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.**

Groundwater will not be withdrawn from a well for drinking water or other purposes for the project. Water will not be discharged to groundwater for this project. If groundwater is encountered during ground-disturbing work, these areas will be isolated. Well points with a pump may be installed to redirect surficial groundwater from the construction site. Any turbid water in the excavation areas will be pumped to infiltration/filtration vegetated areas around the site and/or pumped into portable settling basins.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

No waste material will be discharged into the ground from septic tanks or other sources.

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including stormwater) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

The source of runoff is precipitation and stormwater sheet flow from paved surfaces. The project will increase the area of impervious surfaces. Stormwater mitigation that will offset these impacts includes construction of two stormwater wetlands and two vegetated bioswales.

- 2) Could waste materials enter ground or surface waters? If so, generally describe.**

It is unlikely, but possible, that fuel, hydraulic fluid, or paving material spills could occur from construction machinery. Regional Road Maintenance Program Guidelines and King County and Ecology spill prevention BMPs will be followed to avoid such spills. King County and the contractor are required to implement a Spill Prevention Control and Countermeasures Plan (SPCC) for the project prior to beginning construction. Equipment will be inspected daily for leaks. Heavy equipment refueling and staging will occur on the existing roadway or off-site. Secondary containment will be provided for pumps. Spill kits will be available on-site to respond to unanticipated small spills.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**

The project will modify drainage patterns in the vicinity of the project. To offset impacts from increased area of impervious surfaces, stormwater will be directed to two stormwater wetlands and two bioswales for water quality treatment.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Stormwater mitigation to offset impacts from runoff includes construction of two stormwater wetlands and two vegetated bioswales. During construction, depending on the weather, some work areas will be dewatered during construction to minimize impacts to groundwater and stormwater. Sediment-laden water that does not meet water-quality standards will be discharged to vegetated upland infiltration areas, depending on the volume of water. If needed, sediment-laden water will be pumped to a Baker tank, settled, and released on-site or hauled off-site.

4. Plants**a. Check the types of vegetation found on the site:**

Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other: cascara, willow, cottonwood, white poplar
- evergreen tree: Douglas fir, cedar, pine, other:
- shrubs: vine maple, oso-berry, western hazelnut, salmonberry, hardhack, willow
- Grass
- Pasture
- crop or grain
- orchards, vineyards, or other permanent crops
- wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other: reed canarygrass
- water plants: waterlily, eelgrass, milfoil, other:
- other types of vegetation: sword fern, licorice fern, salal, longleaf mahonia, English ivy, Himalayan blackberry

b. What kind and amount of vegetation will be removed or altered?

Vegetation that will be removed/altered consists of trees, shrubs, grasses, ferns, and weeds.

The project will impact 13,940 square feet (0.32 acre) of wetland buffer. This area will be mitigated on-site with buffer restoration and enhancement. Permanent impacts of 1,178 square feet (0.03 acre) of Category III wetland are anticipated. The proposed mitigation for this area is through payment to the King County In-Lieu Fee Mitigation Program.

Approximately 78 trees greater than four-inch-diameter at breast height will be felled for the project. Of these, 15 trees are in the critical area wetland buffer. Some of the felled trees may be left on-site and/or within the wetland buffer as habitat features.

c. List threatened and endangered species known to be on or near the site.

According to a review of online data from the Washington State Department of Natural Resources Natural Heritage Program and the Consortium of Pacific Northwest Herbaria conducted in April 2021, there are no special-status plant species known or anticipated to occur on or near the site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Clearing limits will be marked on-site prior to construction to ensure only required vegetation removal occurs. After construction, temporarily impacted areas will be seeded with a native species mix and/or planted with appropriate native trees and shrubs. Wetland buffer restoration and enhancement will include removal of non-native invasive species and planting of appropriate native species. Ditches will be seeded with a non-invasive seed mix and a mix of native and non-native trees and shrubs will be planted in the roundabout.

e. List all noxious weeds and invasive species known to be on or near the site.

The following noxious weeds and invasive species have been observed on or near the site:

Common Name	Scientific Name	King County Noxious Weed Class
Himalayan blackberry	<i>Rubus armeniacus</i>	Non-regulated, Class C Noxious Weed
Reed canarygrass	<i>Phalaris arundinacea</i>	Non-regulated, Class C Noxious Weed
English ivy	<i>Hedera helix</i>	Non-regulated, Class C Noxious Weed

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

birds: hawk, heron, eagle, songbirds, other: crows

mammals: deer, bear, elk, beaver, other: coyote, raccoons, squirrels, rabbits

fish: bass, salmon, trout, herring, shellfish, other: amphibians

The birds and other animals underlined above are known or anticipated to be on or near the project site.

b. List any threatened and endangered species known to be on or near the site.

According to a review of online data from the Washington State Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service conducted in April 2021, there are no special-status animal species known or anticipated to occur on or near the site.

c. Is the site part of a migration route? If so, explain.

The project site is located within the Pacific Flyway, which is a major north-south route of travel for migratory birds extending from Alaska to Patagonia. Every year, migratory birds travel some or all this distance both in spring and in fall, following food sources, heading to breeding grounds, or traveling to overwintering sites.

Except for the Pacific Flyway, the project area is otherwise not a known or mapped wildlife species corridor.

d. Proposed measures to preserve or enhance wildlife, if any:

Proposed measures to preserve or enhance wildlife include, but are not limited to:

- Avoiding the impact altogether by not taking a certain action or parts of an action.
 - The project was designed to have the minimal footprint possible. Clearing limits will be marked on-site to preserve existing vegetation outside of the project limits.
 - The project will be constructed in compliance with regulations and permit provisions within authorized work windows.
- Minimizing impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology or by taking affirmative steps to avoid or reduce impacts. The project minimizes impacts by implementing the following:
 - Appropriate TESC BMPs required by the Regional Road Maintenance Program Guidelines, King County Surface Water Design Manual, the Washington State Department of Transportation (WSDOT), and Ecology.

- Groundwater BMPs: If groundwater is encountered within work areas during construction, it will be isolated and discharged to a vegetated upland area to infiltrate or will be hauled off-site. This will prevent turbid water from being discharged outside of the project limits.
 - A Surface Water Pollution Prevention Plan (SWPPP).
 - A Fugitive Dust Control Plan.
 - An SPCC Plan.
 - Staging and stockpiling on existing paved areas.
- Rectifying
 - Providing water quality treatment for stormwater.
 - Restoring disturbed vegetation areas and providing cover measures to minimize erosion.
 - Retaining felled trees on-site as habitat features.

e. List any invasive animal species known to be on or near the site.

No invasive animal species are known to be on or near the site.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity will be used for roadway lighting.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

The project will not affect the potential use of solar energy by adjacent properties.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

The completed project will use energy efficient lighting. Measures to reduce energy use during construction will be encouraged (e.g., efficient scheduling, material transport, and staging; implementing the no-idling policy).

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

The accidental leakage of petroleum products (e.g., gasoline, diesel fuel, hydraulic fluid, grease, etc.) or other chemicals (e.g., antifreeze) from construction equipment could occur, but is not likely. These substances can be toxic to nearby aquatic systems and to humans upon prolonged exposure and can pose a fire hazard. King County inspectors will monitor the site during construction. All King County vehicles are equipped with spill kits. Spill control and cleanup kits will also be provided by the contractor and will be available on-site. Heavy equipment will be inspected daily for leaks and necessary repairs will be completed prior to commencing work. Project operations may cease under severe weather conditions that may result in inundation of the construction zone, except for efforts to minimize resource damage.

During construction, community health could be affected by dust and vehicle exhaust. Construction activities will intermittently generate particulate matter and odors, and construction equipment will generate diesel engine exhaust. Any air-quality impacts associated with construction activities are greatest near sensitive land uses, such as schools or

parks. There are school bus stops near the project area; however, impacts will be minimized. In addition, air quality impacts will be short-term, occurring only while construction is in progress.

BMPs will be employed to reduce fugitive dust, odors, and exhaust emissions; see Section 2.c. of this checklist for more information.

1) Describe any known or possible contamination at the site from present or past uses.

Based on a review of Ecology's website, the project area falls within the predicted arsenic contamination zone, which is based on the modeled Asarco Tacoma plume. There is an active cleanup site within a half-mile radius from the project area. There are two Ecology-permitted facilities identified within a half-mile of the project area.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

There are no known existing hazardous chemicals/conditions at the project site that might affect project development and design.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

During construction, petroleum products will be used on-site to power construction equipment and as a component of asphalt pavement. At completion of the project, toxic or hazardous chemicals will not be stored, used, or produced at the project site. Herbicides may be used to control or eradicate invasive vegetation on the site. If used, these products will be applied by State of Washington licensed Commercial Applicators or Operators in accordance with the label recommendations, the Washington State Department of Ecology, local sensitive area ordinances, and Washington State Department of Agriculture laws and regulations.

4) Describe special emergency services that might be required.

The need for special emergency services is not anticipated.

5) Proposed measures to reduce or control environmental health hazards, if any:

King County sampled areas for contaminants in 2020 where excavation will occur, and no issues were identified that required follow-up. Worker health and safety will be addressed as required by Washington State and federal regulations. Waste material generated from construction will be properly managed and disposed of at permitted facilities.

During construction, the project will implement a SPCC plan that provides BMPs to be used during construction to minimize the potential for hazardous spills from fuels and materials. Spill control and cleanup kits will be available on-site to be used in the rare event of a spill.

The contractor will be required to submit a SWPPP and a Fugitive Dust Control Plan to King County for approval. The plan will provide BMPs that will be used to minimize the amount of particulate matter (i.e., dust) generated during construction.

b. Noise**1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

Existing noise in the area emanates from roadway traffic and surrounding residential parcels along the roadway. The existing noise levels in the area will not affect the proposed project.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction will create noise on a short-term basis. This noise will be generated from the various types of construction equipment and activities; for example, truck traffic hauling materials to and from the site, excavation, and material-moving equipment such as backhoes and bulldozers, mechanical soil compaction, hand-held equipment such as chain saws, and asphalt-paving operations.

Construction will occur in accordance with King County Code 12.86, which allows typical construction equipment operation between 7 a.m. and 7 p.m. weekdays and 9 a.m. and 7 p.m. on weekends. If work outside these hours is needed, a variance will be requested from the King County DLS Permitting Division.

Following construction, noise is expected to return to pre-existing conditions. The project will not generate new ongoing noise.

3) Proposed measures to reduce or control noise impacts, if any:

Standard mufflers will be used on all construction equipment. The construction crew will work during hours in accordance with the requirements of King County Code and permit conditions. If work outside normal construction hours is needed, a variance will be requested from the King County DLS Permitting Division.

8. Land and Shoreline Use**a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.**

The current use of the site is as King County roadway infrastructure and utility corridor. Private properties within the vicinity of the project area are lightly to moderately developed parcels. The proposal will not alter existing land uses.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

The project will not result in the conversion of agricultural or working forest lands to other uses. The project site is primarily composed of the King County right-of-way, residential parcels, and parcels zoned for neighborhood businesses, which are not working farmland or working forest lands.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?

No farm or forestry operations will be permanently affected by the proposal.

c. Describe any structures on the site.

Current structures within the project limits include the roadway fill prism, utility poles for overhead utility wires, and fences.

d. Will any structures be demolished? If so, what?

The existing paved road will be demolished and replaced with the new roundabout as part of the proposed project.

e. What is the current zoning classification of the site?

King County's public road rights-of-way are not subject to zoning. The project area is located inside the urban growth boundary. Private properties within the vicinity of the project area are zoned as Neighborhood Business (NB), Residential (R) 4: allowing four dwelling units per acre, and R 12: allowing 12 dwelling units per acre. Much of the immediate surrounding area is dominated by a mix of single-family homes and second growth forest.

f. What is the current comprehensive plan designation of the site?

According to the *King County Comprehensive Plan (2020)*, the project is within a urban area.

g. If applicable, what is the current shoreline master program designation of the site?

The site is not within a Shoreline Management Act boundary.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

King County delineated three Category III wetlands within and adjacent to the future project. The wetlands have an 80-foot-wide critical area buffer.

The King County iMap interactive mapping tool indicates the presence of multiple wetlands within the project vicinity, including two mapped Category II wetlands. One of these two wetlands is located approximately 400 feet northwest of the subject intersection (identified as White River 19 in the King County Wetlands Inventory); the other is located approximately 1,100 feet southwest of the subject intersection (identified as White River 3 and White River 5 in the King County Wetlands Inventory). In addition to these wetlands, the National Wetlands Inventory indicates the presence of a third wetland located on the southeast side of the White River 19 wetland. These wetlands and their buffers are not anticipated to be affected by the project.

i. Approximately how many people would reside or work in the completed project?

No people will reside or work in the completed project.

j. Approximately how many people would the completed project displace?

No people will be permanently displaced by the project.

k. Proposed measures to avoid or reduce displacement impacts, if any:

No measures will be implemented to avoid or reduce displaced people because no one will be displaced.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

This project complies with the *King County Comprehensive Plan (2020)*. The proposed project is consistent with existing and projected land uses in the areas that are potentially affected by the project. The project requires land use permits from the King County DLS Permitting Division to further ensure the project is compatible with existing and projected land uses and plans.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

No long-term adverse impacts to agricultural or forest land uses in the vicinity are anticipated.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

No housing units are being provided by the project.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

No housing units are being eliminated by the project.

c. Proposed measures to reduce or control housing impacts, if any:

The project will not result in adverse impacts to housing units; therefore, no measures are proposed to reduce or control impacts.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

This is a transportation infrastructure project, and no buildings are proposed.

b. What views in the immediate vicinity would be altered or obstructed?

The roundabout project and associated roadway improvements and lighting will provide a changed roadway view from the existing two-way stop. The proposed project will improve sightlines for the traveling public. No views in the immediate vicinity of the project will be obstructed except in regard to the central island of the roundabout. The central island within the roundabout will have strategic landscaping visible from a distance to alert the travelling public of a change in road configuration. This vegetation will also prevent headlight glare and views of oncoming traffic in order to enhance the safety and traffic flow within the roundabout.

On the west leg of South 360th Street, adjacent to a recently developed property on the south side of the roadway, a wooded area will be removed to install a stormwater facility, expanding views to and from the development.

c. Proposed measures to reduce or control aesthetic impacts, if any:

The project components will be standard for unincorporated King County to improve traffic flow for the surrounding area. The central island within the roundabout will enhance aesthetics through a low-maintenance landscape with vegetation that blends with surrounding native species. Splitter islands and truck aprons will have a contrasting surface treatment to emphasize the roundabout and increase safety aesthetically. Perimeter impacts will be restored with native vegetation similar to existing conditions.

Views opened up by the stormwater facility on the west leg of South 360th Street will be minimized by limiting clearing of the vegetation south and east of the stormwater facility to maintain as much visual screening as possible.

11. Light and Glare**a. What type of light or glare will the proposal produce? What time of day would it mainly occur?**

The completed project will provide nighttime lighting for the roadway and roundabout to improve safety. The completed project will not produce glare.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

The lighting proposed for the finished project will improve views of the roadway and roundabout. This will be an enhancement to safety and not a safety hazard.

c. What existing off-site sources of light or glare may affect your proposal?

No off-site sources of light or glare have been identified that will affect the proposed project.

d. Proposed measures to reduce or control light and glare impacts, if any:

Typically, modern lighting focuses light and minimizes glare, so no measures are needed to further prevent or minimize impacts.

12. Recreation**a. What designated and informal recreational opportunities are in the immediate vicinity?**

There are no formal recreational areas on the existing roadway or the adjacent privately-owned parcels. Within the immediate vicinity of the project, informal recreational activities include walking and biking within the existing roadway.

b. Would the proposed project displace any existing recreational uses? If so, describe.

Pedestrian and vehicular access through the active construction site will be limited and controlled for public safety. No existing recreational uses will be displaced long-term by the proposed project.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

During construction, walking/biking through the project area will be prohibited for safety reasons. The completed project will return recreational opportunities to previously existing conditions.

13. Historic and Cultural Preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.**

There are no recorded, reported, or suspected cultural resources at the project location based on the cultural resources screening conducted by the Roads Archaeologist. The cultural resources screening utilized the following resources/databases:

- King County Cultural Resource Protection Project
- Department of Archaeology and Historic Preservation (DAHP)
- Washington Information System for Architectural and Archaeological Records Data

These resources/databases utilize geographic information systems, historic maps, ethno-historic accounts, and professional site records. The Roads Archaeologist recommended that an archaeological survey with screened shovel probes be undertaken within the project footprint.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.**

As noted in Section B.13.a of this checklist, no recorded, reported, or suspected cultural resources were identified at the project location during the cultural resources screening. The Roads Archeologist initiated National Historic Preservation Act Section 106 procedures by requesting an exemption from the State to sample the soil using shovel probes. The project's Area of Potential Effects (APE) was defined, and the State and Tribes were consulted. Following concurrence of the APE from the State and Tribes, a professional survey will be conducted within the project limits and a report will be produced. The survey report will include recommendations and will be sent to the State and Tribes for review/concurrence.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archaeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

See Sections B.13.a. and B.13.b. of this checklist.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

If resources are identified during construction, work in the vicinity of the identified resources will immediately cease and the Roads Archaeologist, WSDOT, the King County Historic Preservation Program, DAHP, consulting Tribes, and other appropriate agencies will be notified. Work will not resume in the vicinity of the identified resources until appropriate archaeological investigations are complete.

14. Transportation

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.**

South 360th Street and Military Road South serve the site. Access to these public roads will be maintained during construction. Project site plans are attached to this checklist for more information.

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?**

The site is not served by public transit. The nearest Pierce County Transit public bus stop is at the intersection of 28th Avenue South and South 360th Street, which is approximately 1 mile west of the project area.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?**

The completed project will neither create nor eliminate parking spaces.

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).**

The proposal will improve the public roadway within the immediate vicinity for vehicular and non-vehicular travel.

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

The project will not use water, rail, or air transportation.

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?**

There will be no increase in typical vehicular trips per day because of the completed project.

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.**

The completed project will not negatively interfere with, affect, or be affected by the movement of agricultural and forest products on roads in the area.

- h. Proposed measures to reduce or control transportation impacts, if any:**

The roundabout is a traffic calming structure to improve safety at this high-accident location. Prior to construction, a wide variety of notifications will be provided to the public.

15. Public Services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.**

No increased needs for public services are anticipated because of the proposed project.

- b. Proposed measures to reduce or control direct impacts on public services, if any.**

The roundabout is designed to minimize impacts to public services that need to pass through the area. Because there will be no direct impacts on public services, no proposed measures are needed.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other: cable
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The above-listed utilities pass through the project site. Electricity will be used to power the new street lighting. No new utilities are proposed for the project. Existing utilities that conflict with the construction project will be temporarily relocated outside of the construction zone and then restored upon site restoration.

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:  Date: 3/28/2022

Name of Signee: Wally Archuleta

Position/title: Road Design & Traffic Manager
Road Services Division, Engineering Section

Attached:

- Project Plan Sheets
- GHG Emissions Worksheet



Section I: Buildings

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO _{2e})			Lifespan Emissions (MTCO _{2e})
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building	0		33	357	766	0
Multi-Family Unit in Small Building	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education		0.0	39	646	361	0
Food Sales		0.0	39	1,541	282	0
Food Service		0.0	39	1,994	561	0
Health Care Inpatient		0.0	39	1,938	582	0
Health Care Outpatient		0.0	39	737	571	0
Lodging		0.0	39	777	117	0
Retail (Other Than Mall).....		0.0	39	577	247	0
Office		0.0	39	723	588	0
Public Assembly		0.0	39	733	150	0
Public Order and Safety		0.0	39	899	374	0
Religious Worship		0.0	39	339	129	0
Service		0.0	39	599	266	0
Warehouse and Storage		0.0	39	352	181	0
Other		0.0	39	1,278	257	0
Vacant		0.0	39	162	47	0

Section II: Pavement.....

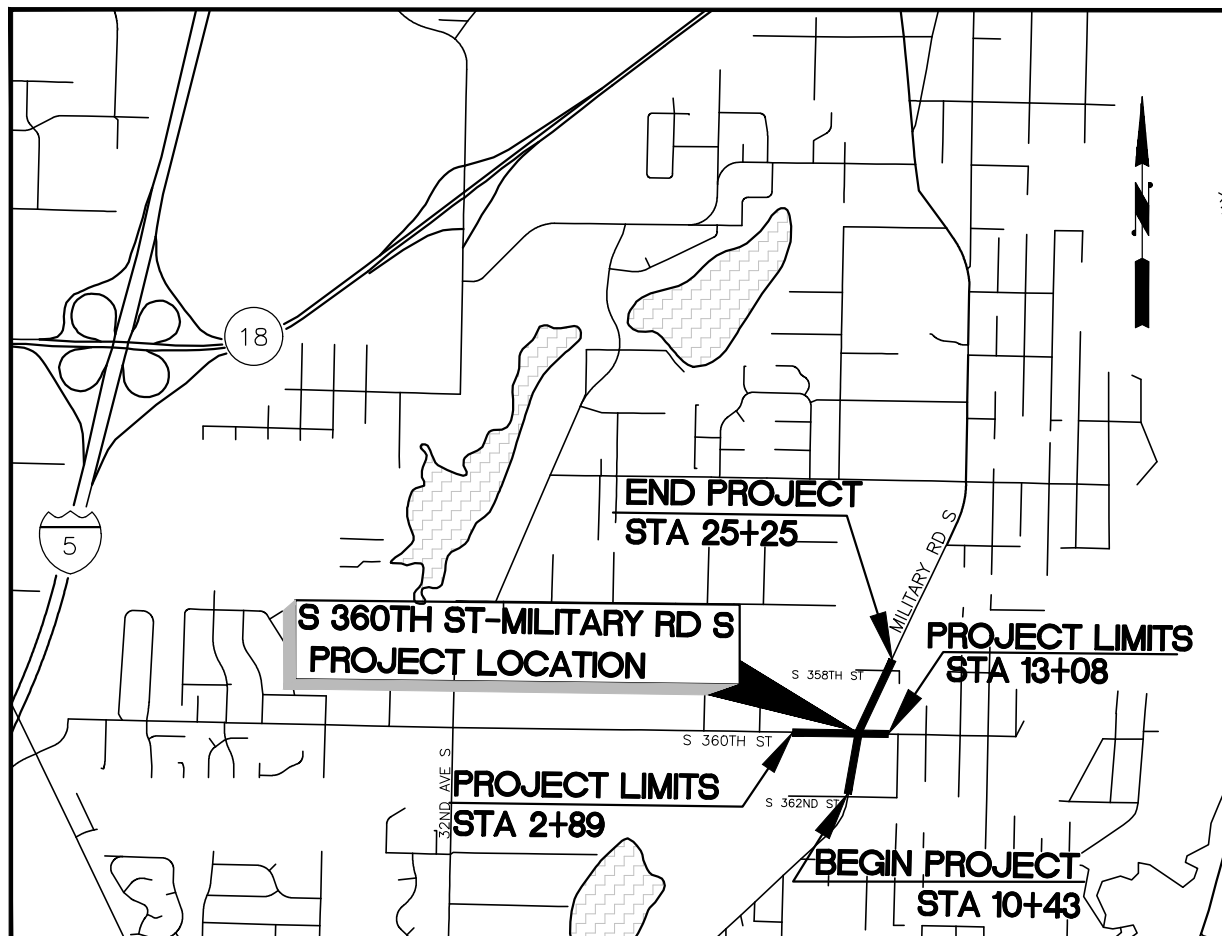
Pavement.....		74.71				3736
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Total Project Emissions:

3736

Data entry fields

N:\1131235-S 360th St at Military Rd S\Development-Design Work\CAD\DESIGN CAD\CIVIL DESIGN CAD\Miscellaneous\1131235_COV.dwg, 3/4/2022 3:38:10 PM, DWG To PDF.pc3



VICINITY MAP
NTS
DRAWING INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
3	SUMMARY OF QUANTITIES
4-5	ROADWAY SECTIONS
6-10	SITE PREPARATION PLANS
11-12	S 360TH ST PLAN AND PROFILE
13-15	MILITARY RD S PLAN AND PROFILE
16	DRIVEWAY NOTES AND DETAILS
17-20	DRIVEWAY PROFILES
21-23	S 360TH ST STORM DRAINAGE PLAN AND PROFILE
24-26	MILITARY RD S STORM DRAINAGE PLAN AND PROFILE
27	S 360TH ST STORMWATER WETLAND
28	S 360TH ST STORMWATER WETLAND PROFILES
29	MILITARY RD S STORMWATER WETLAND
30	MILITARY RD S STORMWATER WETLAND PROFILES
31	STORMWATER WETLAND DETAILS
32	STRUCTURE NOTES
33	OVERALL PLAN
34-35	CURB PROFILES
36	TRUCK APRON PROFILE
37-38	HORIZONTAL ALIGNMENT PLAN
39-40	GRADING PLAN
41-42	STRUCTURAL WALL PLAN AND PROFILES
43-44	CHANNELIZATION PLAN
45-47	ILLUMINATION PLANS (TO BE DESIGNED)
48-51	TESC PLANS
52	TESC DETAILS
53-57	LANDSCAPE PLANS (TO BE DESIGNED)
58-59	RESTORATION DETAILS AND NOTES
60	WETLANDS MITIGATION PLAN



S 360TH ST AND MILITARY RD S ROUNDABOUT

90% PRELIMINARY DISTRIBUTION SET

ROAD SERVICES	ADAM VERDUGO	03/03/22
From	Distributing Engineers	Return On/Before
To	Approving Reviewer	Initial & Date

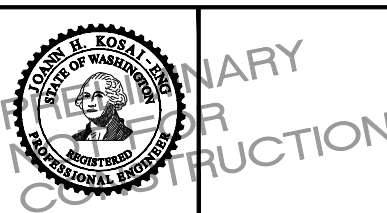


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SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	03/03/22
DESIGNED:	A. VERDUGO	03/03/22
CHECKED:	M. KARINEN	03/03/22
SUPERVISOR:	A. MCMANUS	03/03/22
SECTION MANAGER APPROVED:	RL	03/03/22
NUM.	REVISION	BY DATE

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03/03/22**

FED. AID No.	---
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4



KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
S 360TH ST AND MILITARY RD S ROUNDABOUT
COVER SHEET

King County
SHEET 1 OF 60 SHEETS
320-93 (1)

PROJECT: 1.) S 360TH AVE ST. AND MILITARY RD S

PROJECT LIMITS: 1.) S 360TH ST: 288 FT. WEST OF MILITARY RD S TO 311 FT. EAST OF MILITARY RD S
 2.) MILITARY RD S: 339 FT. SOUTH OF S 360TH ST TO 346 FT. NORTH OF S 360TH ST

SUMMARY OF QUANTITIES

PROJECT LENGTH: 1.) 0.11 MILES (599 FT.) 2.) 0.13 MILES (685 FT.)

ITEM NO.	TOTAL QUANTITY	UNIT	STD. ITEM NO.	SPEC. SECTION	ITEM	PROJECT NUMBERS		AS-BUILT	
						1131235			
PREPARATION									
1	LUMP SUM	L.S.	0001	1-09	MOBILIZATION	LUMP SUM			
2	LUMP SUM	L.S.	0035	2-01	CLEARING AND GRUBBING	LUMP SUM			
3	LUMP SUM	L.S.	0050	2-02	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM			
4	73	L.F.			REMOVE AND RESET GUARDRAIL	73			
5	1,400	L.F.	0188		REMOVAL TEMPORARY PAVEMENT MARKING	1,400			
6	800	L.F.	0187		REMOVING PAINT LINE	800			
GRADING									
7	3,887	C.Y.	0310	2-03	ROADWAY EXCAVATION INCL. HAUL	3,887			
8	14,780	C.Y.			POND EXCAVATION INCL. HAUL	14,780			
9	1,760	TON	0431	-	GRAVEL BORROW INCL. HAUL	1,760			
DRAINAGE									
10	1	EACH			CONCRETE INLET EXCAVATION INCL. HAUL	1			
11	0	TON	1086	8-15	QUARRY SPALLS				
12	350	L.F.	1180	7-02	SCHEDULE A CULVERT PIPE 12 IN. DIA.	350			
13	47	L.F.	1182	7-02	SCHEDULE A CULVERT PIPE 18 IN. DIA.	47			
14	22	L.F.	-	443-79	DUCTILE IRON CULVERT PIPE 8 IN. DIA.	22			
15	65	L.F.	-	7-02	DUCTILE IRON CULVERT PIPE 12 IN. DIA.	65			
STORMWATER									
16	3	EACH	3091	7-05	CATCH BASIN TYPE 1	3			
17	8	EACH	-	7-05	CATCH BASIN TYPE 1 W/ THROUGH-CURB INLET	8			
18	2	EACH	3105	7-05	CATCH BASIN TYPE 2 48 IN. DIA.	2			
19	3	EACH	-	7-05	CATCH BASIN TYPE 2 48 IN. DIA. W/ THROUGH-CURB INLET	3			
SURFACING									
20	2,370	TON	5100	4-04	CRUSHED SURFACING BASE COURSE	2,370			
HOT MIX ASPHALT									
21	70	S.Y.	5711	5-04	PLANING BITUMINOUS PAVEMENT	70			
22	3,950	TON	5767	5-04	HMA CL. 1/2 IN. PG 64-22	3,950			
EROSION CONTROL AND ROADSIDE RESTORATION									
23	160	L.F.	6463		CHECK DAMN	160			
24	668	S.Y.	6468	8-01.3	STABILIZED CONSTRUCTION ENTRANCE	668			
25	1,910	L.F.			COIR LOG 12 IN. DIA	1,910			
26	20	EACH	6471	8-01	INLET PROTECTION	20			
27	0	HR	6470	8-01	STREET CLEANING				
28	\$5,000	EST.	6490	8-01	EROSION/WATER POLLUTION CONTROL	\$5,000			
29	5,000	S.Y.	-	8-01	STRAW MULCH	5,000			
30	LUMP SUM	L.S.	6416	8-01	PERMANENT SEEDING	LUMP SUM			
31	200	C.Y.	-	9-14	TOPSOIL TYPE A	200			
32	50	C.Y.	6481	8-01.3	MEDIUM COMPOST	50			
33	0	C.Y.	-	9-14	BARK OR WOOD CHIP MULCH	0			
34	2,930	L.F.	6630	8-01	FLAGS AND STAKES	2,930			

ITEM NO.	TOTAL QUANTITY	UNIT	STD. ITEM NO.	SPEC. SECTION	ITEM	PROJECT NUMBERS		AS-BUILT	
						1131235			
TRAFFIC									
35	1,333	L.F.	6700	8-04	CEMENT CONC. TRAFFIC CURB AND GUTTER	1,333			
36	1,249	L.F.	6701	8-04	CEMENT CONC. TRAFFIC CURB	1,249			
37	224	L.F.	6708	8-04	ROUNDABOUT CENTRAL ISLAND CEMENT CONC. CURB	224			
38	294	L.F.	6709	8-04	ROUNDABOUT TRUCK APRON CEM. CONC. CURB AND GUTTER	294			
39	196	L.F.	6707	8-04	CEMENT CONC. PEDESTRIAN CURB	196			
40	1,123	L.F.	6727		EXTRUDED CURB	1,123			
41	4,116	L.F.	6806	8-22	PAINT LINE	4,116			
42	129	L.F.	6828	8-22	PLASTIC WIDE LANE LINE	129			
43	136	L.F.	6847	8-22	PLASTIC WIDE DOTTED ENTRY LINE	136			
44	324	S.F.	6857	8-22	PLASTIC CROSSWALK LINE	324			
45	0.3	HUND	6884	8-09	RAISED PAVEMENT MARKER TYPE 2	0.3			
46	1,400	L.F.	6895	8-23	TEMPORARY PAVEMENT MARKING - SHORT DURATION	1,400			
47	LUMP SUM	L.S.	-	8-20	ILLUMINATION SYSTEM MODIFICATION	LUMP SUM			
48	LUMP SUM	L.S.	6971	1-10	PROJECT TEMPORARY TRAFFIC CONTROL	LUMP SUM			
49	LUMP SUM	L.S.	6869	1-10	PEDESTRIAN TRAFFIC CONTROL	LUMP SUM			
OTHER ITEMS									
50	841	C.Y.	7006	7-05	STRUCTURE EXCAVATION CLASS B INCL. HAUL	841			
51	2,798	S.F.	7008	7-05	SHORING OR EXTRA EXCAVATION CLASS B	2,798			
52	276	C.Y.	-	2-09	GRAVEL BACKFILL FOR TRENCH	276			
53	80	MGAL	7018	2-07	WATER	80			
54	LUMP SUM	L.S.	7042	1-05	ADA FEATURES SURVEYING	LUMP SUM			
55	1	EACH	7380	8-13	ADJUST MONUMENT CASE AND COVER	1			
56	999	S.Y.	7055	8-14	CEMENT CONC. SIDEWALK	999			
57	20	S.Y.	7059	8-06	CEMENT CONC. DRIVEWAY ENTRANCE	20			
58	8	EACH	7058	8-14	CEMENT CONC. CURB RAMP TYPE - PARALLEL	8			
59	8	EACH	7058	8-14	CEMENT CONC. CURB RAMP TYPE - TRANSITION	8			
60	160	S.F.	7054	8-14	DETECTABLE WARNING SURFACE	160			
61	279	L.F.	-		GALVANIZED HAND RAIL	279			
62	1,170	L.F.	7083		CHAIN LINK FENCE TYPE 3	1,170			
63	3	EACH	3100	7-05	ADJUST CATCH BASIN	3			
64	6	EACH	3110	9-05	LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	6			
65	2	EACH	-		DETENTION SYSTEM	2			
66	\$5,000	EST.	7480	2-01	ROADSIDE CLEANUP	\$5,000			
67	\$30,000	CALC.	7728	1-04	MINOR CHANGE	\$30,000			
68	LUMP SUM	L.S.	7736	1-07	SPCC PLAN	LUMP SUM			

NOTE: FOR SPECIAL FEATURES SEE SPECIAL PROVISIONS



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SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
NUM.	REVISION	BY	DATE		

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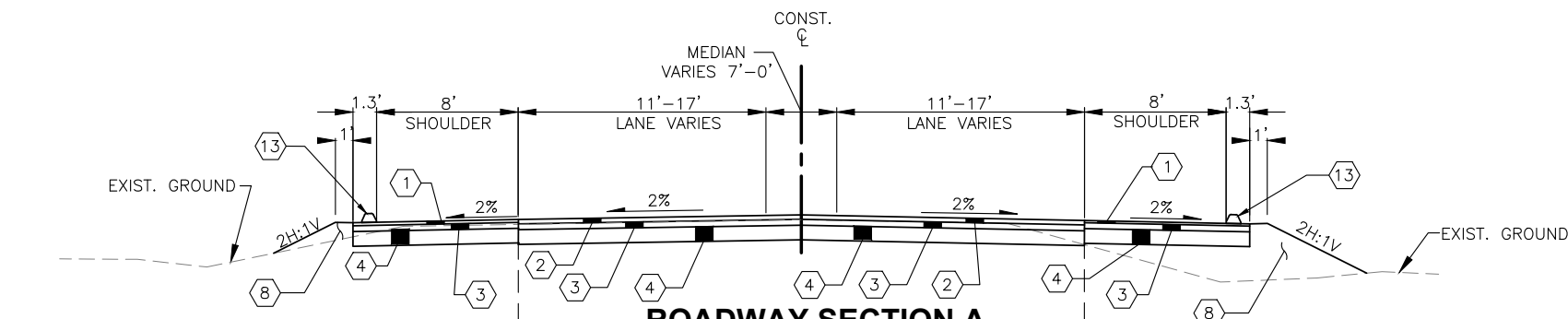
FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**
SUMMARY OF QUANTITIES

SHEET
3
OF
60
SHEETS
320-93 (3)

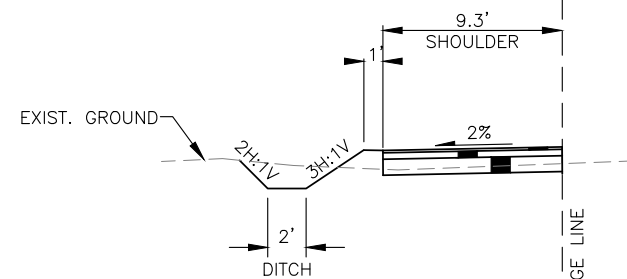
ROADWAY SECTION NOTES

- 1 0.17 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (WEARING COURSE)
- 2 0.25 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (WEARING COURSE)
- 3 0.25 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (LEVELING COURSE)
- 4 0.50 FT. MIN. COMPACTED DEPTH (CSBC) CRUSHED SURFACING BASE COURSE
- 5 CEMENT CONCRETE SIDEWALK, 4" THICK.
- 6 CEMENT CONCRETE TRAFFIC CURB AND GUTTER.
- 7 0.33 FT. MIN. COMPACTED DEPTH (CSBC) CRUSHED SURFACING BASE COURSE
- 8 GRAVEL BORROW INCL. HAUL
- 9 ROUNDABOUT TRUCK APRON CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-01
- 10 ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB PER WSDOT STD. PLAN F-10.12-00
- 11 CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-00
- 12 1 FT. MIN. TOPSOIL
- 13 EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F-10.42-00
- 14 REMOVE AND RESET EXIST GUARDRAIL. SEE WSDOT STD. PLAN C-20.10-06 FOR PLACEMENT.



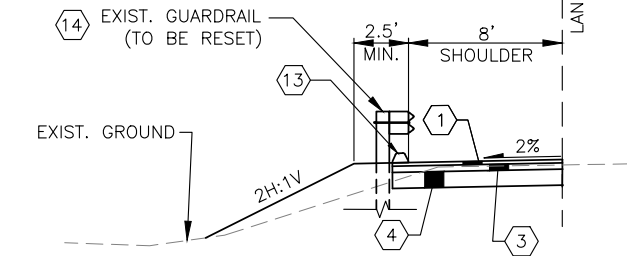
ROADWAY SECTION A

STA 6+54.30 TO 7+75.0 (S 360TH ST)
 STA 11+45.00 TO 13+07.73 (S 360TH ST)
 STA 14+19.33 TO 14+72.40 (MILITARY RD S)
 STA 18+63.58 TO 20+86.49 (MILITARY RD S)
 *OMIT CURB AT DRIVEWAYS



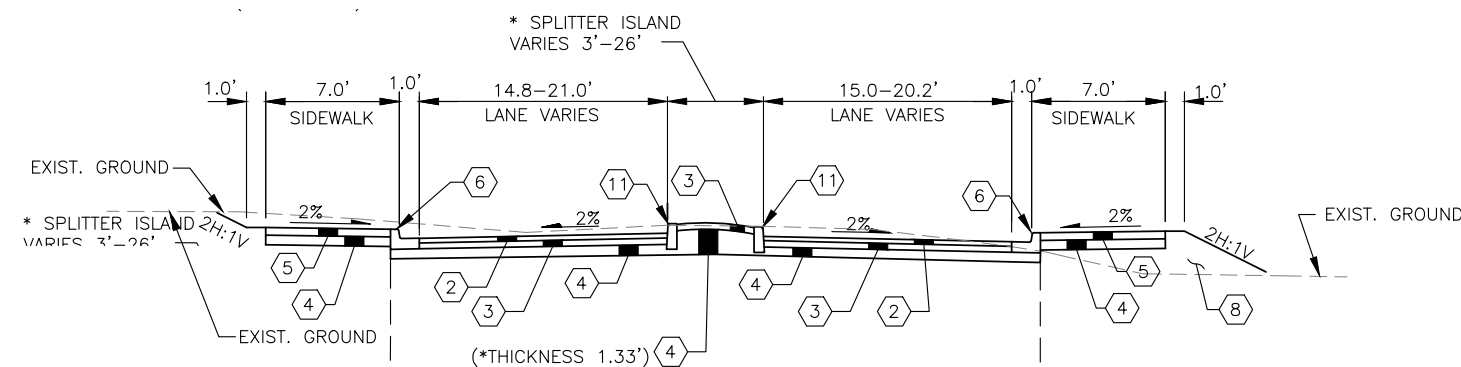
ROADWAY SECTION A-2

STA 12+30.64 TO 14+19.33 (MILITARY RD S)



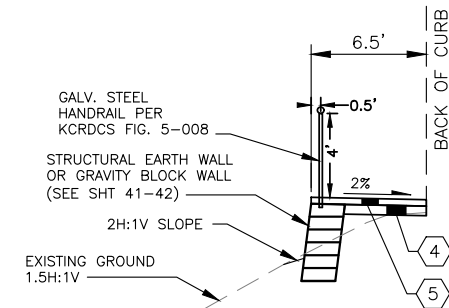
ROADWAY SECTION A-3

STA 5+81.57 TO 6+54.30 (S 360TH ST)



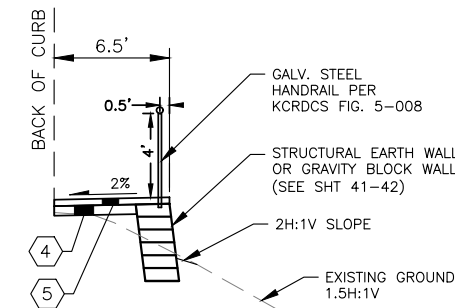
ROADWAY SECTION B

STA 7+75.00 TO 9+19.20 (S 360TH ST)
 STA 14+72.35 TO 15+94.44 (MILITARY RD S)
 STA 17+48.53 TO 18+63.58 (MILITARY RD S)



ROADWAY SECTION B-2

STA 10+55.64 TO 11+75.00 (S 360TH ST)



ROADWAY SECTION B-3

STA 10+55.64 TO 11+75.00 (S 360TH ST)
 STA 15+94.44 TO 16+13.08 (MILITARY RD S)



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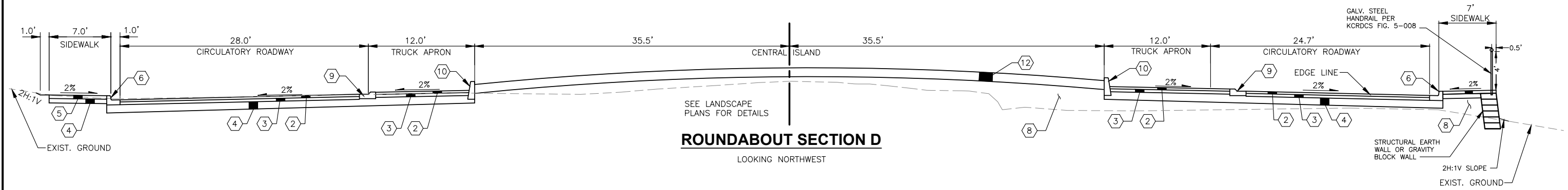
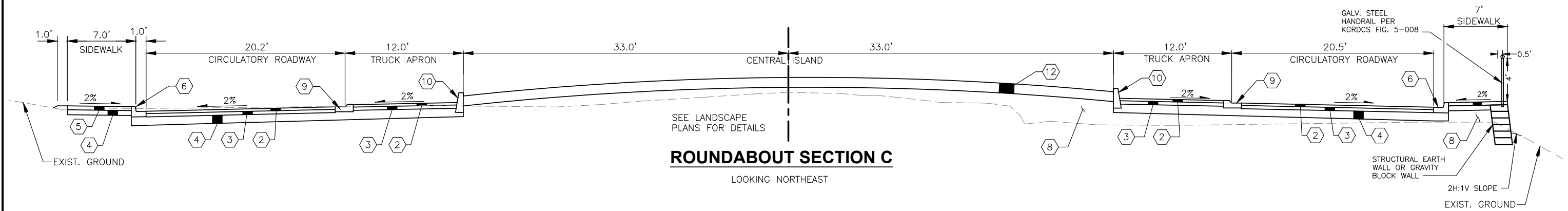
SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
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SUPERVISOR:	A. MCMANUS	2/14/22			
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MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 ROADWAY SECTIONS & DETAILS

King County	SHEET	4
	OF	60
	SHEETS	
320-93		(4)



ROADWAY SECTION NOTES

- ① 0.17 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (WEARING COURSE)
- ② 0.25 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (WEARING COURSE)
- ③ 0.25 FT. MIN. COMPACTED DEPTH HMA CL 1/2" PG 64-22 (LEVELING COURSE)
- ④ 0.50 FT. MIN. COMPACTED DEPTH (CSBC) CRUSHED SURFACING BASE COURSE
- ⑤ CEMENT CONCRETE SIDEWALK, 4" THICK.
- ⑥ CEMENT CONCRETE TRAFFIC CURB AND GUTTER.
- ⑦ 0.33 FT. MIN. COMPACTED DEPTH (CSBC) CRUSHED SURFACING BASE COURSE
- ⑧ GRAVEL BORROW INCL. HAUL
- ⑨ ROUNDABOUT TRUCK APRON CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-01
- ⑩ ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB PER WSDOT STD. PLAN F-10.12-00
- ⑪ CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-00
- ⑫ 1 FT. MIN. TOPSOIL
- ⑬ EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F-10.42-00
- ⑭ REMOVE AND RESET EXIST GUARDRAIL. SEE WSDOT STD. PLAN C-20.10-06 FOR PLACEMENT.



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JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**
ROADWAY SECTIONS & DETAILS




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5
OF
60
SHEETS
320-93 (5)

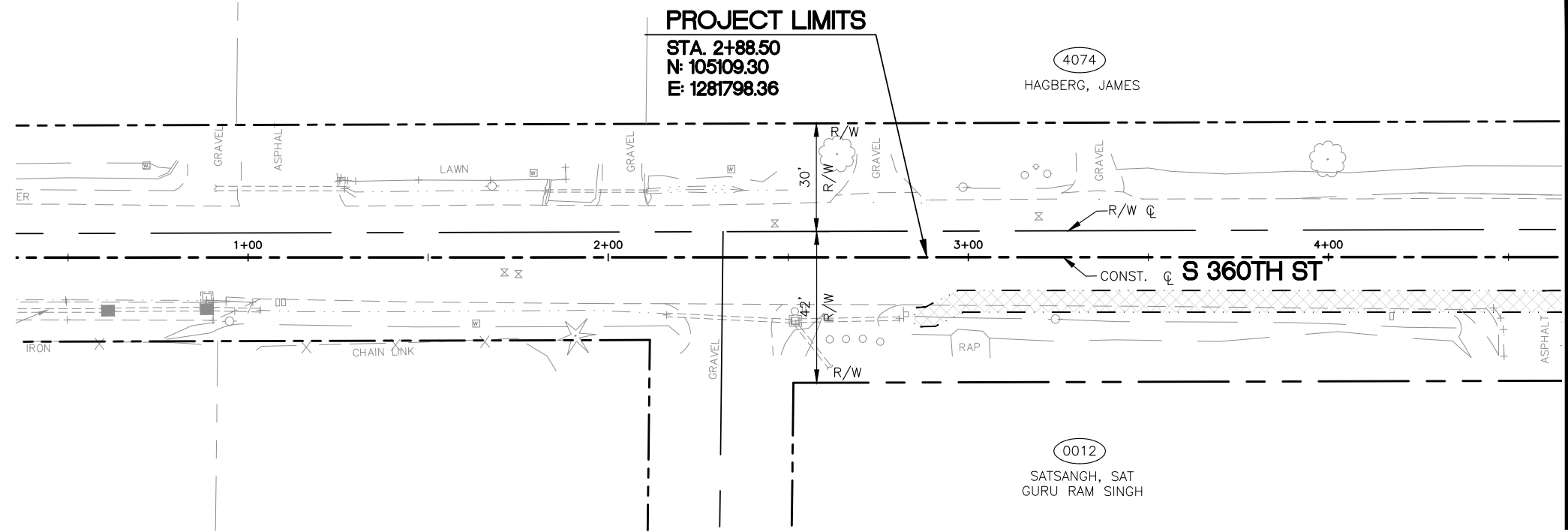
SEC. 27, T.21 N., R.4 E., W.M.
NE⁴ SE⁴

CONSTRUCTION NOTES

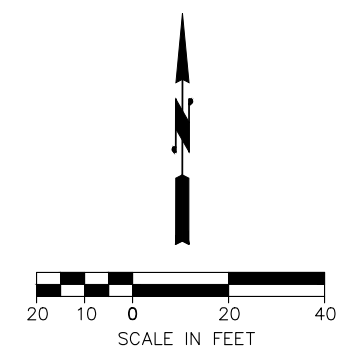
- 1 UTILITY/LIGHT POLE TO BE RELOCATED BY OTHERS.
- 2 FH TO BE RELOCATED
- 3 WATER METER TO BE RELOCATED
- 4 REMOVE EXIST. FENCE.
- 5 REMOVE EXIST. TREE. SEE SHEET 10 FOR TREE REMOVAL SCHEDULE.
- 6 EXIST. TREE TO BE PROTECTED DURING CONSTRUCTION.
- 7 EXIST. MAILBOX TO BE RELOCATED.
- 8 EXIST. SIGN TO BE RELOCATED.
- 9 EXIST. SIGN TO BE REMOVED.
- 10 REMOVE EXIST. CULVERT.
- 11 REMOVE EXIST. GUARDRAIL (TO BE RESET).

LEGEND

-  LIMITS OF REMOVAL
-  ROADWAY EXCAVATION INCL. HAUL
-  POND EXCAVATION INCL. HAUL

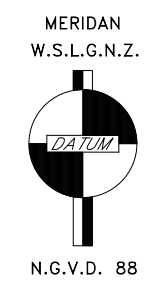


MATCHLINE STA. 4+66, SEE SHT 7



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
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COUNTY SURVEY CONTROL



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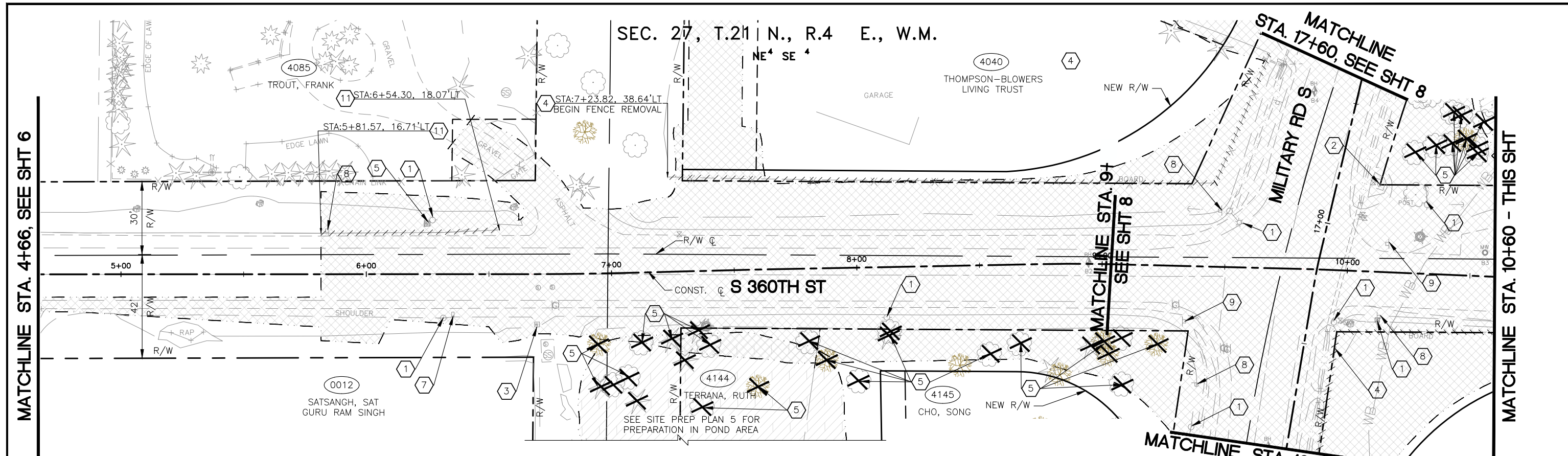
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PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
SITE PREPARATION PLAN 1



SHEET
6
OF
60
SHEETS

320-93 (6)

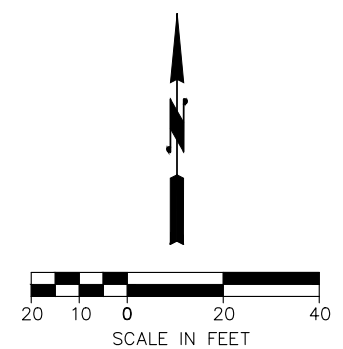
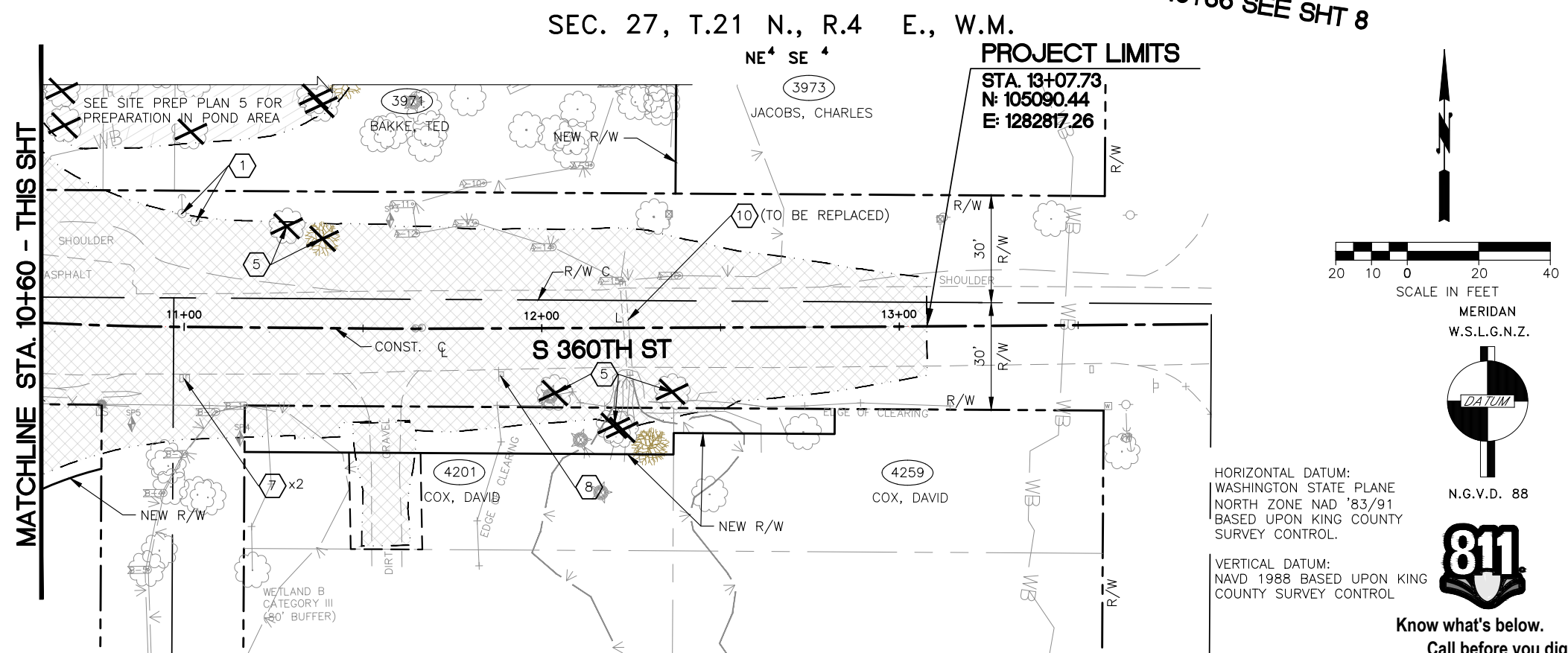


CONSTRUCTION NOTES

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- 2 FH TO BE RELOCATED
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- 8 EXIST. SIGN TO BE RELOCATED.
- 9 EXIST. SIGN TO BE REMOVED.
- 10 REMOVE EXIST. CULVERT.
- 11 REMOVE EXIST. GUARDRAIL (TO BE RESET).

LEGEND

- LIMITS OF REMOVAL
- ▨ ROADWAY EXCAVATION INCL. HAUL
- ▨ POND EXCAVATION INCL. HAUL



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
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SURVEY CONTROL.

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COUNTY SURVEY CONTROL

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DESIGNED:	A. VERDUGO	2/14/22			
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KING COUNTY DEPT. OF LOCAL SERVICES
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**S 360th ST AND MILITARY RD S
ROUNDBOUT**
SITE PREPARATION PLAN 2

King County

SHEET
7
OF
60
SHEETS

320-93 (7)

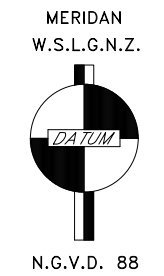
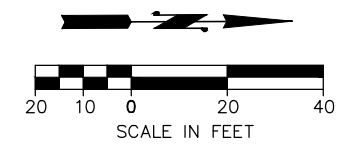
SEC. 27, T.21 N., R.4 E., W.M.

CONSTRUCTION NOTES

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- 2 FH TO BE RELOCATED
- 3 WATER METER TO BE RELOCATED
- 4 REMOVE EXIST. FENCE.
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- 8 EXIST. SIGN TO BE RELOCATED.
- 9 EXIST. SIGN TO BE REMOVED.
- 10 REMOVE EXIST. CULVERT.
- 11 REMOVE EXIST. GUARDRAIL (TO BE RESET).

LEGEND

- LIMITS OF REMOVAL
- ROADWAY EXCAVATION INCL. HAUL
- POND EXCAVATION INCL. HAUL

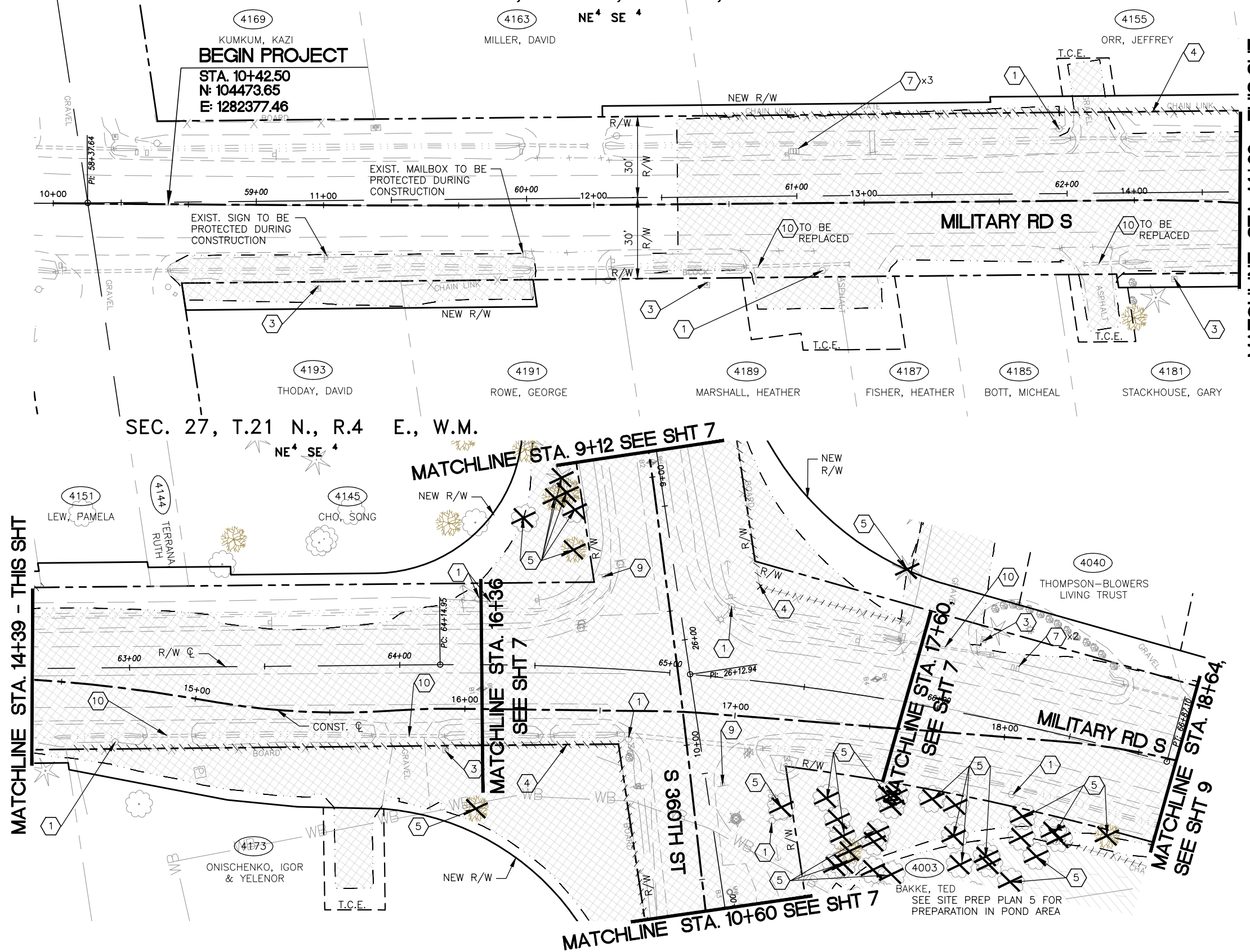


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SURVEY CONTROL.

VERTICAL DATUM:
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4169
KUMKUM, KAZI
BEGIN PROJECT
STA. 10+42.50
N: 104473.65
E: 1282377.46

4163
MILLER, DAVID

4155
ORR, JEFFREY

4193
THODAY, DAVID

4191
ROWE, GEORGE

4189
MARSHALL, HEATHER

4187
FISHER, HEATHER

4185
BOTT, MICHEAL

4181
STACKHOUSE, GARY

SEC. 27, T.21 N., R.4 E., W.M.

MATCHLINE STA. 14+39 - THIS SHT

MATCHLINE STA. 9+12 SEE SHT 7

MATCHLINE STA. 16+36
SEE SHT 7

MATCHLINE STA. 17+60
SEE SHT 7

MATCHLINE STA. 18+64
SEE SHT 9

MATCHLINE STA. 10+60 SEE SHT 7

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KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
SITE PREPARATION PLAN 3

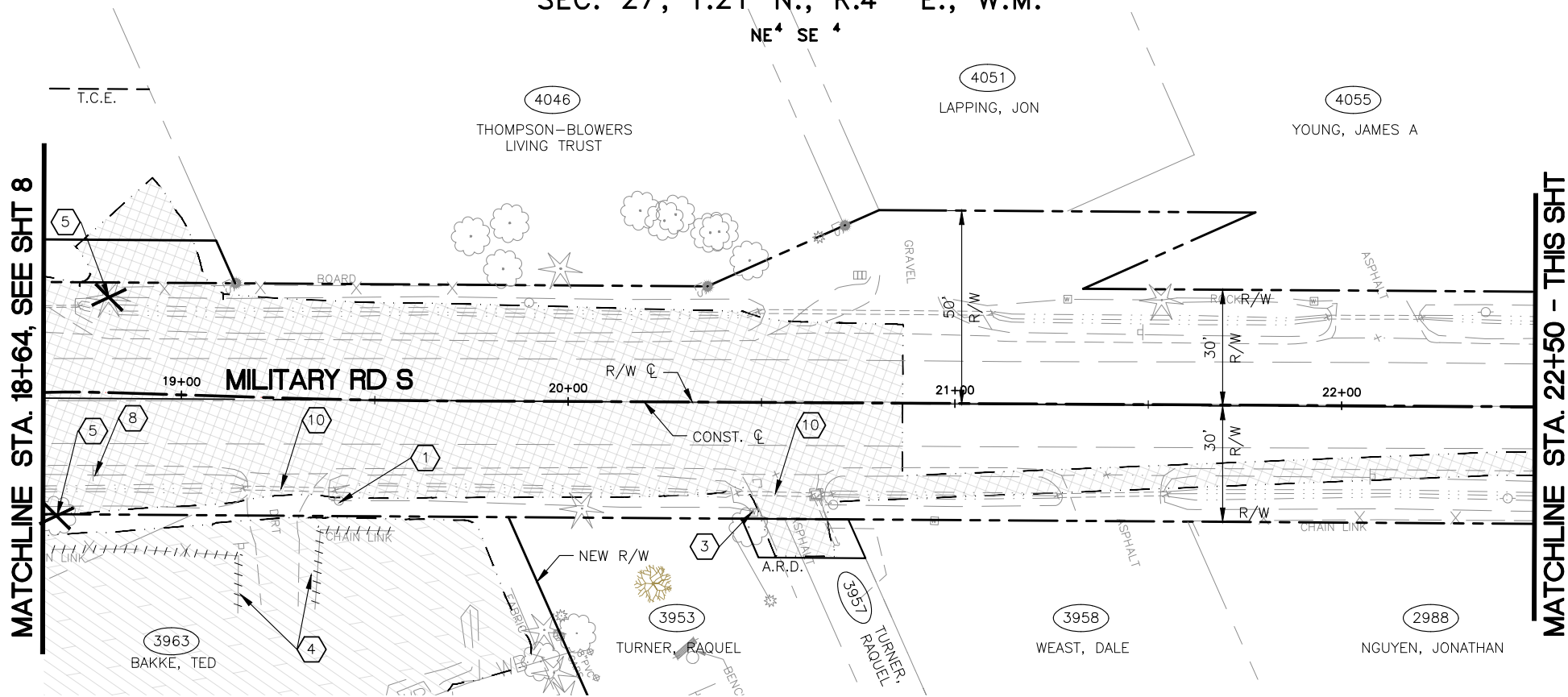
SHEET
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OF
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SHEETS
320-93 (8)

SEC. 27, T.21 N., R.4 E., W.M.

NE 4 SE 4

MATCHLINE STA. 18+64, SEE SHT 8

MATCHLINE STA. 22+50 - THIS SHT



CONSTRUCTION NOTES

- 1 UTILITY/LIGHT POLE TO BE RELOCATED BY OTHERS.
- 2 FH TO BE RELOCATED
- 3 WATER METER TO BE RELOCATED
- 4 REMOVE EXIST. FENCE.
- 5 REMOVE EXIST. TREE. SEE SHEET 10 FOR TREE REMOVAL SCHEDULE.
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- 9 EXIST. SIGN TO BE REMOVED.
- 10 REMOVE EXIST. CULVERT.
- 11 REMOVE EXIST. GUARDRAIL (TO BE RESET).

LEGEND

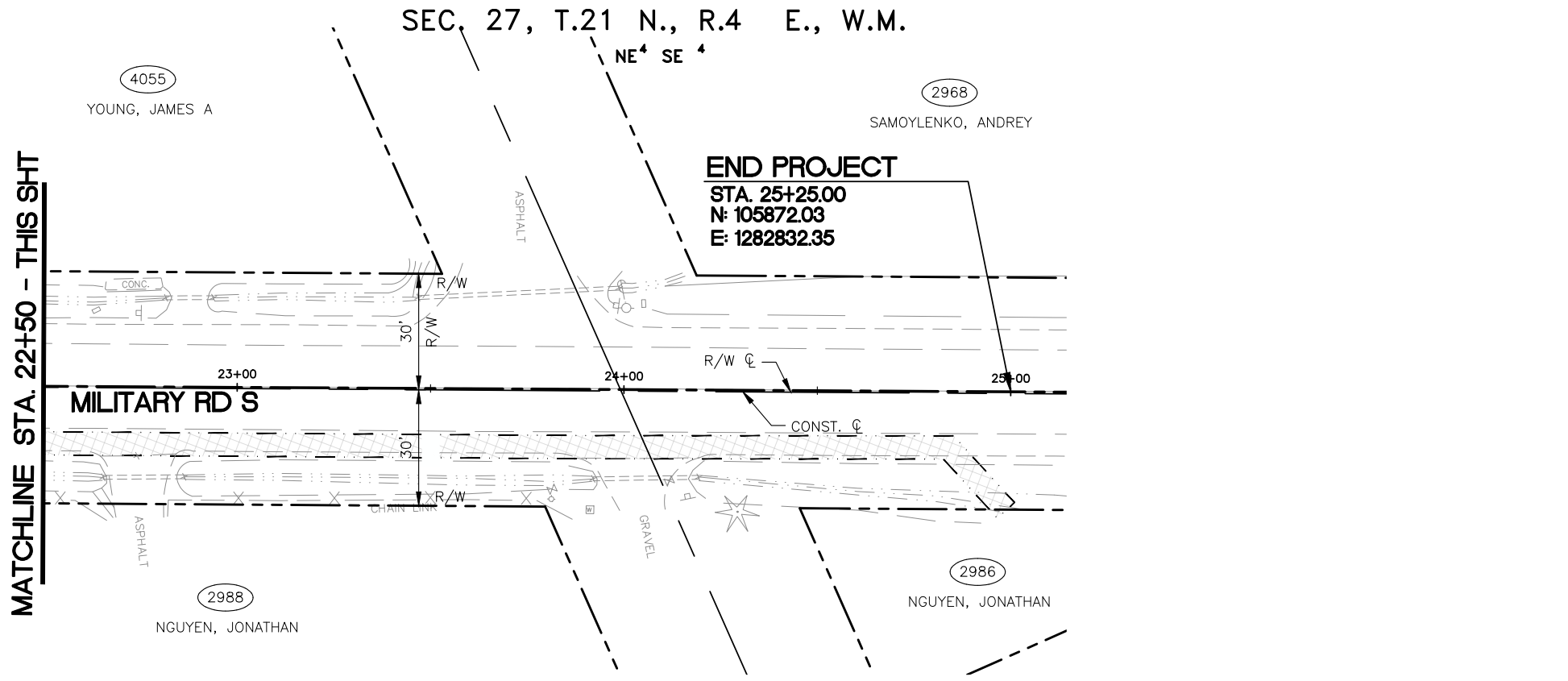
- LIMITS OF REMOVAL
- ROADWAY EXCAVATION INCL. HAUL
- POND EXCAVATION INCL. HAUL

SEC. 27, T.21 N., R.4 E., W.M.

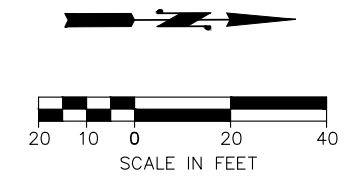
NE 4 SE 4

MATCHLINE STA. 22+50 - THIS SHT

MATCHLINE STA. 25+00 - THIS SHT



END PROJECT
 STA. 25+25.00
 N: 105872.03
 E: 1282832.35



HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
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MERIDAN
 W.S.L.G.N.Z.



N.G.V.D. 88



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DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

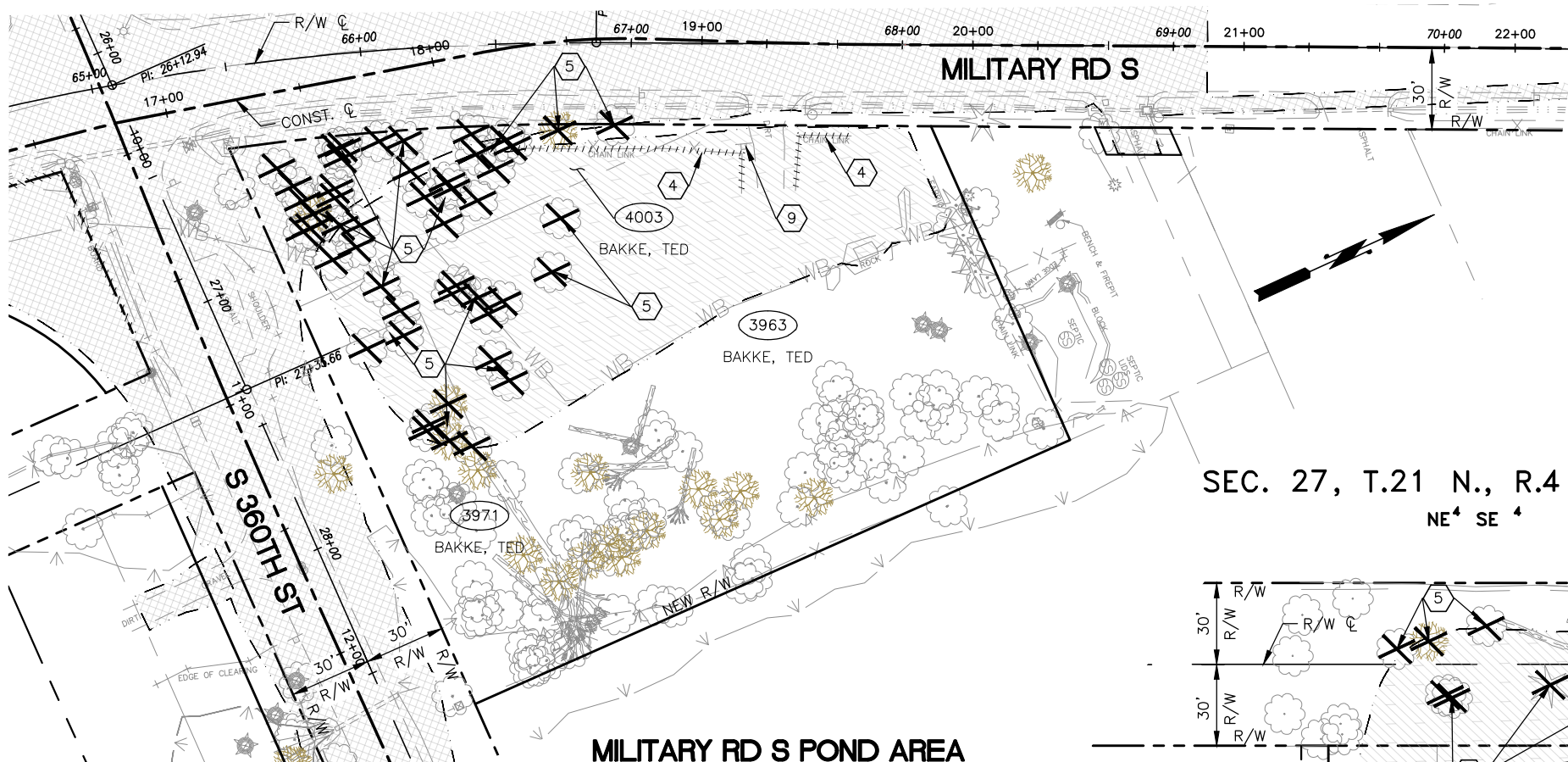
NUM.	REVISION	BY	DATE

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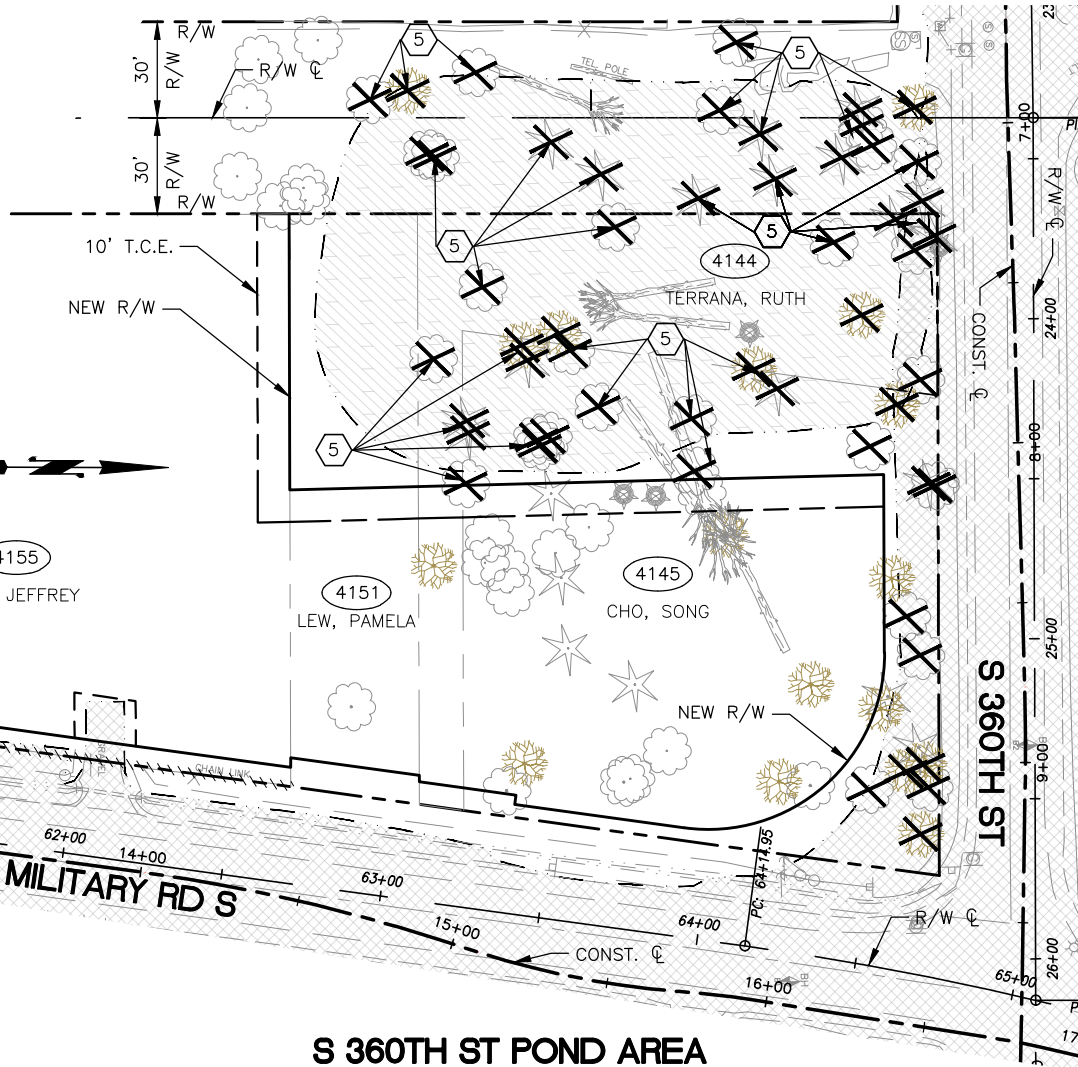
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PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 SITE PREPARATION PLAN 4

SHEET
9
 OF
60
 SHEETS
320-93 (9)



MILITARY RD S POND AREA



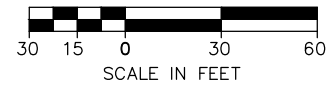
S 360TH ST POND AREA

CONSTRUCTION NOTES

- 1 UTILITY/LIGHT POLE TO BE RELOCATED BY OTHERS.
- 2 FH TO BE RELOCATED
- 3 WATER METER TO BE RELOCATED
- 4 REMOVE EXIST. FENCE.
- 5 REMOVE EXIST. TREE. SEE SHEET 10 FOR TREE REMOVAL SCHEDULE.
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- 7 EXIST. MAILBOX TO BE RELOCATED.
- 8 EXIST. SIGN TO BE RELOCATED.
- 9 EXIST. SIGN TO BE REMOVED.
- 10 REMOVE EXIST. CULVERT.
- 11 REMOVE EXIST. GUARDRAIL (TO BE RESET).

LEGEND

- [Dashed Line] LIMITS OF REMOVAL
- [Cross-hatched Area] ROADWAY EXCAVATION INCL. HAUL
- [Diagonal-hatched Area] POND EXCAVATION INCL. HAUL



MERIDAN
W.S.L.G.N.Z.



HORIZONTAL DATUM:
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NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

N.G.V.D. 88

TREE REMOVAL SCHEDULE

NAME	DIAMETER (IN)	QUANTITY
ALDER	8"	1
	12"	3
	14"	1
	16"	1
BIRCH	16"	1
	18"	1
CHERRY	10"	1
	16"	1
COTTONWOOD	6"	1
	14"	4
	18"	4
	20"	1
	24"	1
FIR	28"	2
	10"	1
	12"	2
	16"	1
	18"	2
WILLOW	24"	5
	28"	3
	30"	2
	40"	1

TREE REMOVAL SCHEDULE

NAME	DIAMETER (IN)	QUANTITY
HAWTHORN	10"	1
MAPLE	6"	3
	8"	1
	10"	1
	12"	1
	16"	2
WILLOW	18"	1
	20"	1
	28"	1
SPRUCE	36"	1
UNKNOWN	?	1
WHITE POPLAR	8"	1
WILLOW	6"	2
	8"	5
	10"	5
	14"	2

SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

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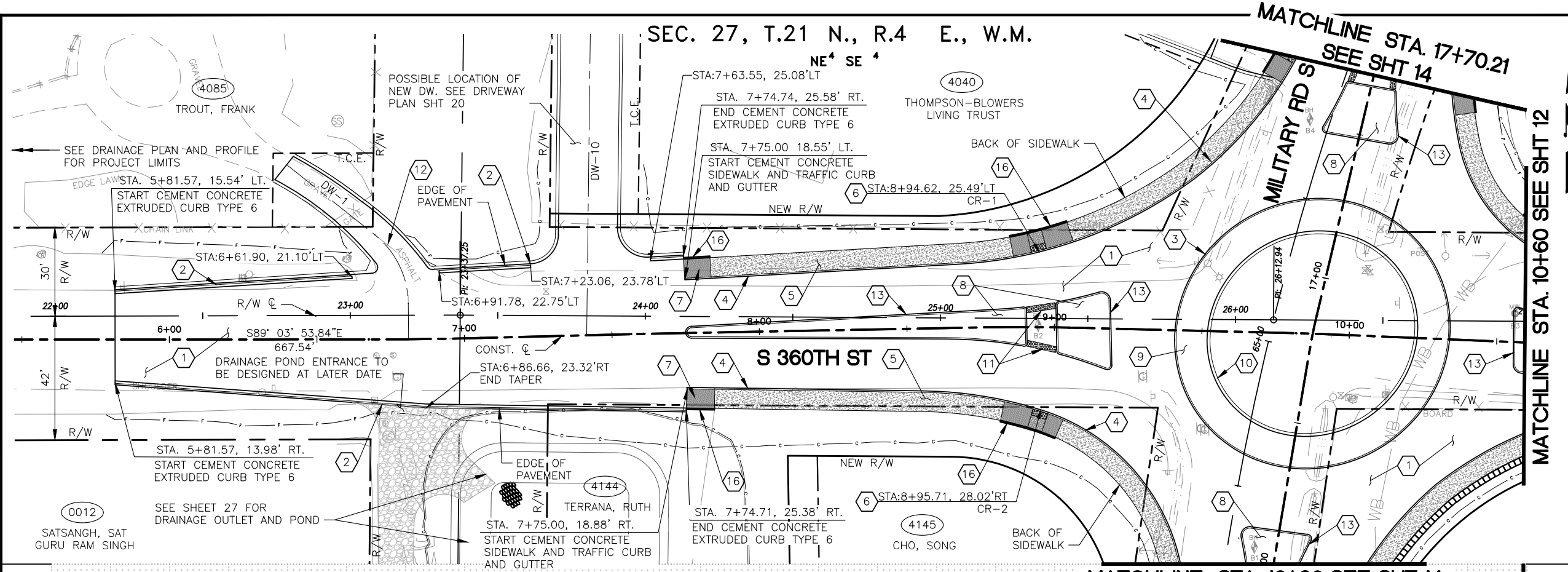
KING COUNTY DEPT. OF LOCAL SERVICES
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**S 360th ST AND MILITARY RD S
ROUNDBOUT**
SITE PREPARATION PLAN 5

Know what's below.
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320-93 (10)

SHEET
10
OF
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SHEETS

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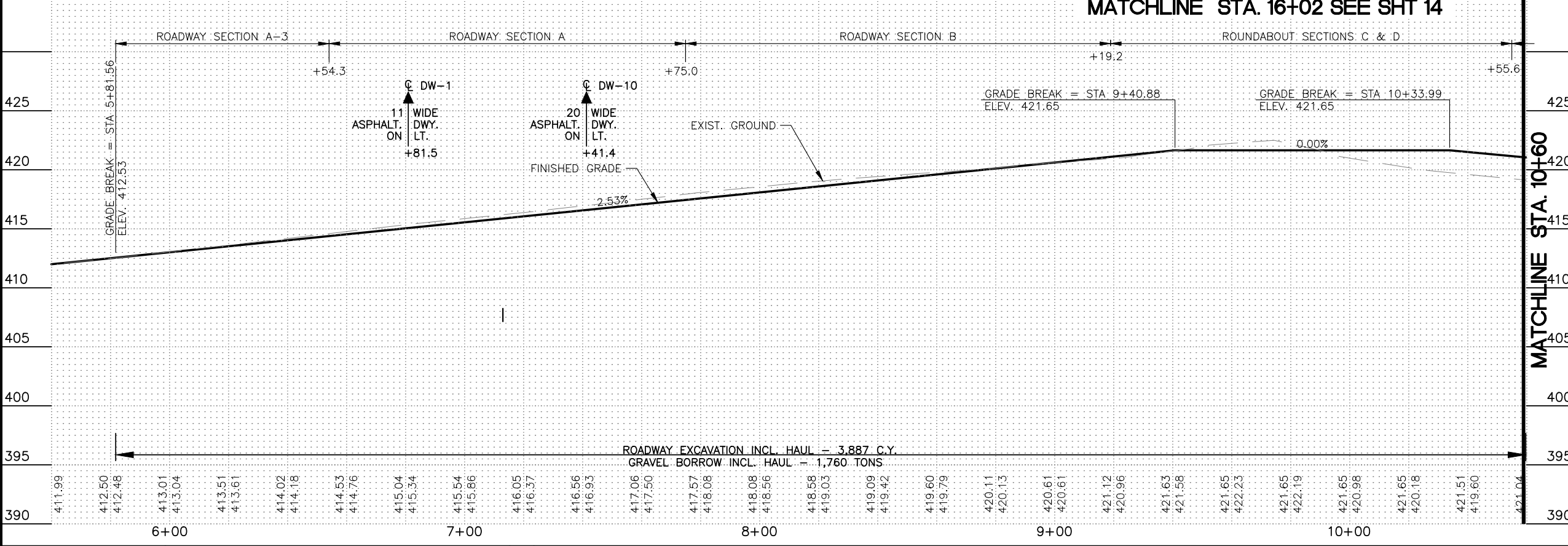


CONSTRUCTION NOTES

- 1 NEW PAVEMENT. SEE TYPICAL ROADWAY SECTION SHEETS.
- 2 INSTALL CEMENT CONCRETE EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F10.12-04.
- 3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.18-01
- 4 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLN. F-10.12-04.
- 5 INSTALL CEMENT CONCRETE SIDEWALK 4 IN. THICK PER KCRDS FIG. 3-002.
- 6 INSTALL CEMENT CONCRETE CURB RAMP TYPE - PARALLEL PER WSDOT STD PLN. F-40.12.03. SEE SHEET 12 FOR CURB RAMP TABLE.
- 7 INSTALL CEMENT CONCRETE CURB RAMP TRANSITION TO HMA. PER KCRDS FIG. 3-014.
- 8 CEMENT CONCRETE SPLITTER ISLANDS. SEE TYPICAL ROADWAY SECTIONS.
- 9 ROUNDABOUT TRUCK APRON. SEE TYPICAL ROADWAY SECTIONS.
- 10 INSTALL ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB PER WSDOT STD. PLAN F-10.12-00
- 11 INSTALL DETECTABLE WARNING SURFACE
- 12 RECONSTRUCT DRIVEWAY - SEE DRIVEWAY DESIGN SHEETS (16-20)
- 13 CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-04
- 14 INSTALL STRUCTURAL EARTH WALL, SEE SHEET 41-42.
- 15 INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER KCRDCS FIG. 3-004 AND 3-007.
- 16 INSTALL CEMENT CONC. PEDESTRIAN CURB.

GENERAL NOTES

1. REFER TO SITE PREPARATION PLAN SHEETS 6-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.



MERIDAN
W.S.L.G.N.Z.

SCALE IN FEET

HORIZONTAL DATUM:
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NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
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N.G.V.D. 88

VERTICAL DATUM:
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SURVEY JOB NO:	17042	05/2019
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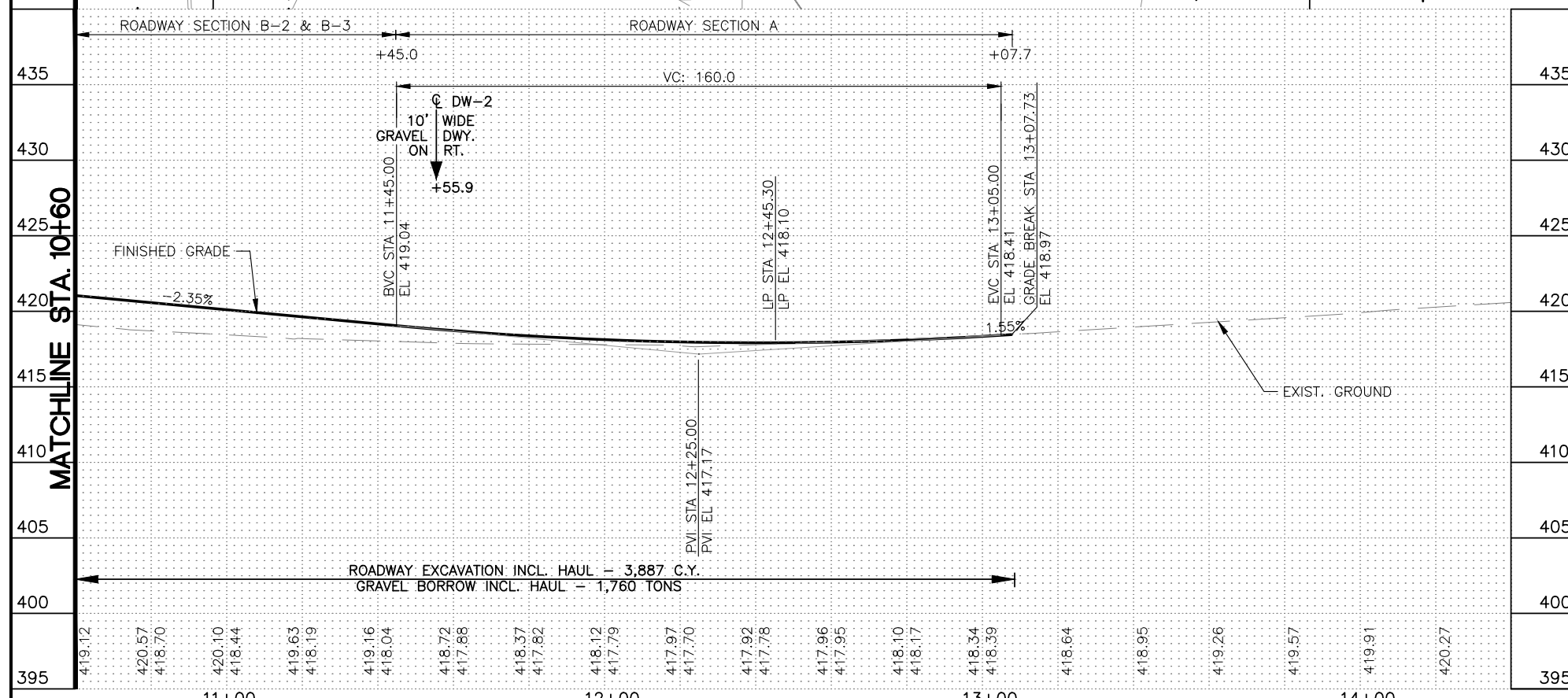
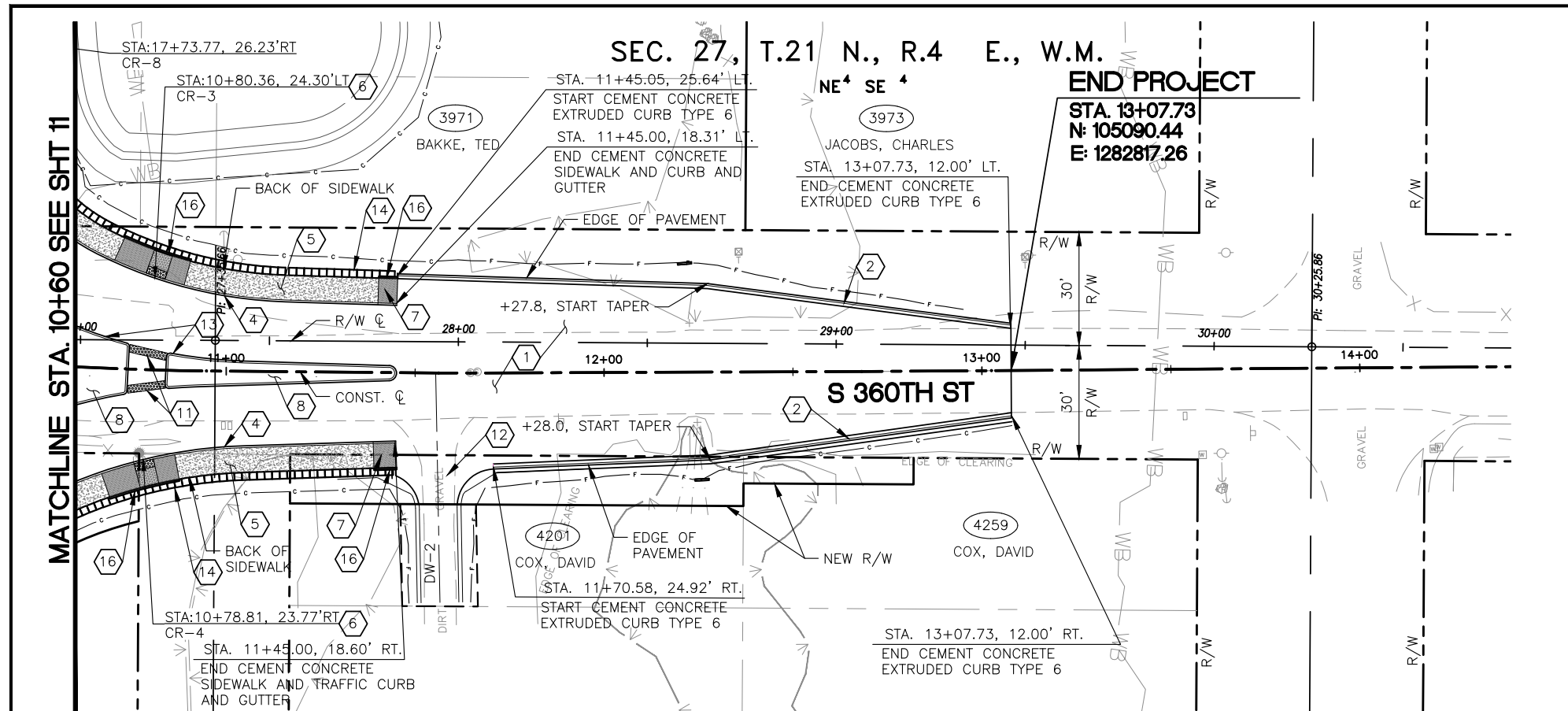
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MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**
S 360TH ST ROADWAY
PLAN AND PROFILE 1

King County

SHEET
11
OF
60
SHEETS

320-93 (11)



GENERAL NOTES

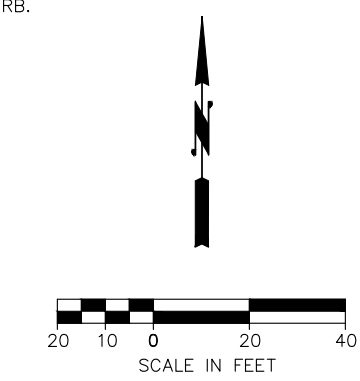
- REFER TO SITE PREPARATION PLAN SHEETS 6-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.

CONSTRUCTION NOTES

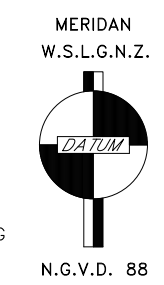
- NEW PAVEMENT. SEE TYPICAL ROADWAY SECTION SHEETS.
- INSTALL CEMENT CONCRETE EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F10.12-04.
- INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.18-01
- INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLN. F-10.12-04.
- INSTALL CEMENT CONCRETE SIDEWALK 4 IN. THICK PER KCRDS FIG. 3-002.
- INSTALL CEMENT CONCRETE CURB RAMP TYPE - PARALLEL PER WSDOT STD PLN. F-40.12.03. SEE SHEET 12 FOR CURB RAMP TABLE.
- INSTALL CEMENT CONCRETE CURB RAMP TRANSITION TO HMA. PER KCRDS FIG. 3-014.
- CEMENT CONCRETE SPLITTER ISLANDS. SEE TYPICAL ROADWAY SECTIONS.
- ROUNDABOUT TRUCK APRON. SEE TYPICAL ROADWAY SECTIONS.
- INSTALL ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB PER WSDOT STD. PLAN F-10.12-00
- INSTALL DETECTABLE WARNING SURFACE
- RECONSTRUCT DRIVEWAY - SEE DRIVEWAY DESIGN SHEETS (16-20)
- CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-04
- INSTALL STRUCTURAL EARTH WALL, SEE SHEET 41-42.
- INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER KCRDCS FIG. 3-004 AND 3-007.
- INSTALL CEMENT CONC. PEDESTRIAN CURB.



RAMP	LEFT WING LENGTH, FT.	LANDING LENGTH, FT.	RIGHT WING LENGTH, FT.
CR-1	6	5	9
CR-2	5	5	9.5
CR-3	8.5	5	5
CR-4	5.5	5	8.5
CR-5	8.5	5	5
CR-6	5.5	5	8
CR-7	7.5	5	6
CR-8	5.5	5	7.5



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.



VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

811
Know what's below.
Call before you dig.

SURVEY JOB NO. 17042	05/2019			FED. AID No. -	
CHECKED: T. CRAY	05/2019			PROJECT No. 1131235	
CAD ENTERED: VERDUGO/PARRETT	2/14/22			MAINTENANCE DIVISION No. 4	
DESIGNED: A. VERDUGO	2/14/22				
CHECKED: M. KARINEN	2/14/22				
SUPERVISOR: A. MCMANUS	2/14/22				
NUM.	REVISION	BY	DATE		

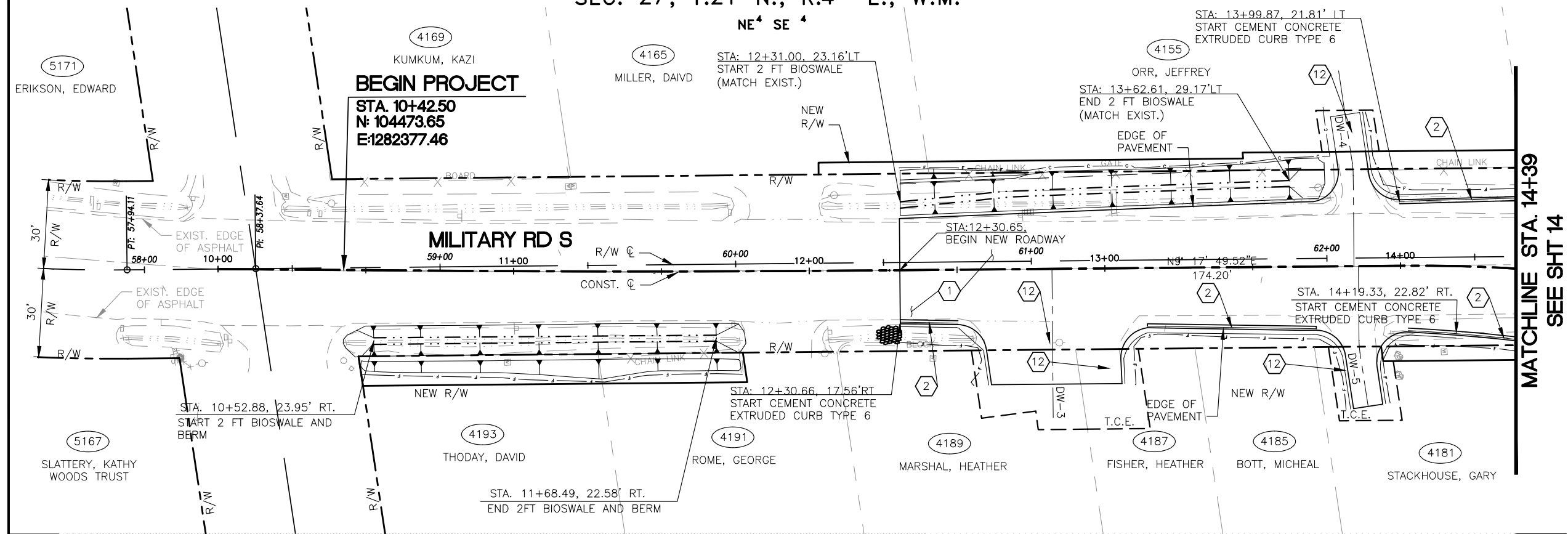
**90% DESIGN
PROGRESS COPY
03/03/22**

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**
S 360TH ST ROADWAY
PLAN AND PROFILE 2

SHEET 12 OF 60 SHEETS
320-93 (12)

SEC. 27, T.21 N., R.4 E., W.M.

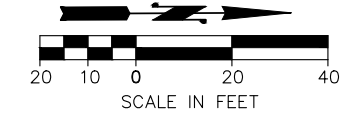
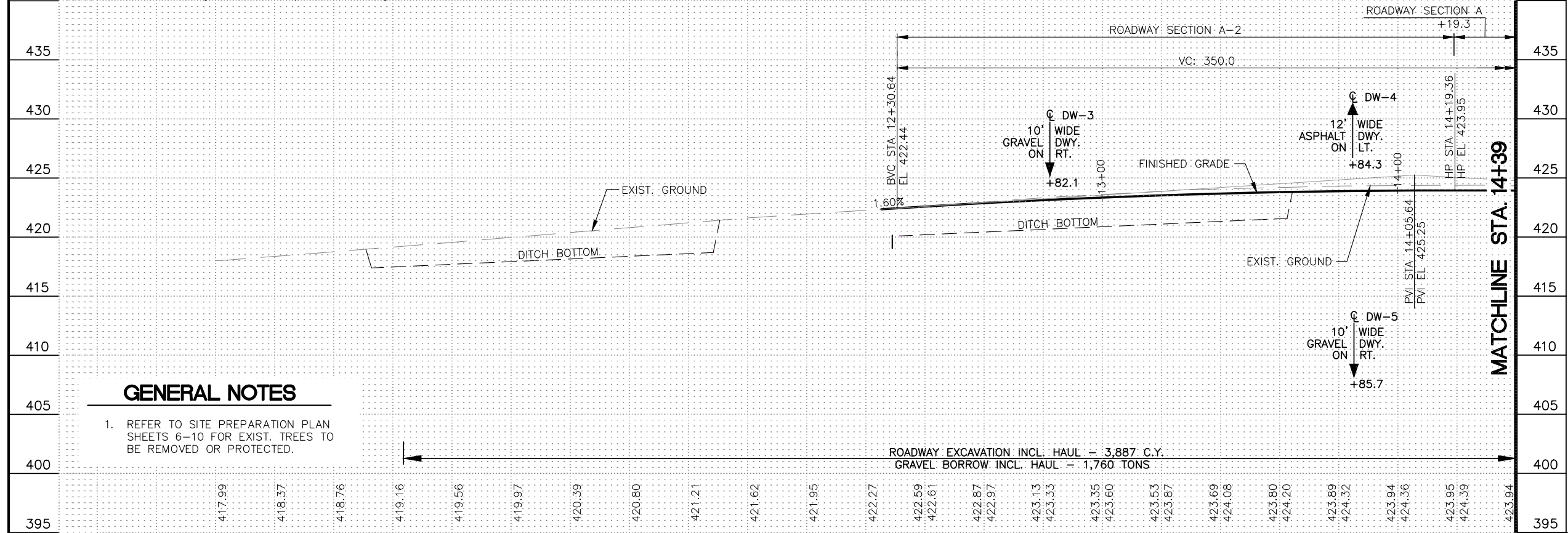
NE 4 SE 4



CONSTRUCTION NOTES

- 1 NEW PAVEMENT. SEE TYPICAL ROADWAY SECTION SHEETS.
- 2 INSTALL CEMENT CONCRETE EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F10.12-04.
- 3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.18-01
- 4 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLN. F-10.12-04.
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- 9 ROUNDABOUT TRUCK APRON. SEE TYPICAL ROADWAY SECTIONS.
- 10 INSTALL ROUNDABOUT CENTRAL ISLAND CEMENT CONCRETE CURB PER WSDOT STD. PLAN F-10.12-00
- 11 INSTALL DETECTABLE WARNING SURFACE
- 12 RECONSTRUCT DRIVEWAY - SEE DRIVEWAY DESIGN SHEETS (16-20)
- 13 CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD PLAN F-10.12-04
- 14 INSTALL STRUCTURAL EARTH WALL, SEE SHEET 41-42.
- 15 INSTALL CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 PER KCRDCS FIG. 3-004 AND 3-007.
- 16 INSTALL CEMENT CONC. PEDESTRIAN CURB.

MATCHLINE STA. 14+39
SEE SHT 14



MERIDIAN W.S.L.G.N.Z.

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL
N.G.V.D. 88



Know what's below.
Call before you dig.

GENERAL NOTES

1. REFER TO SITE PREPARATION PLAN SHEETS 6-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.

SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

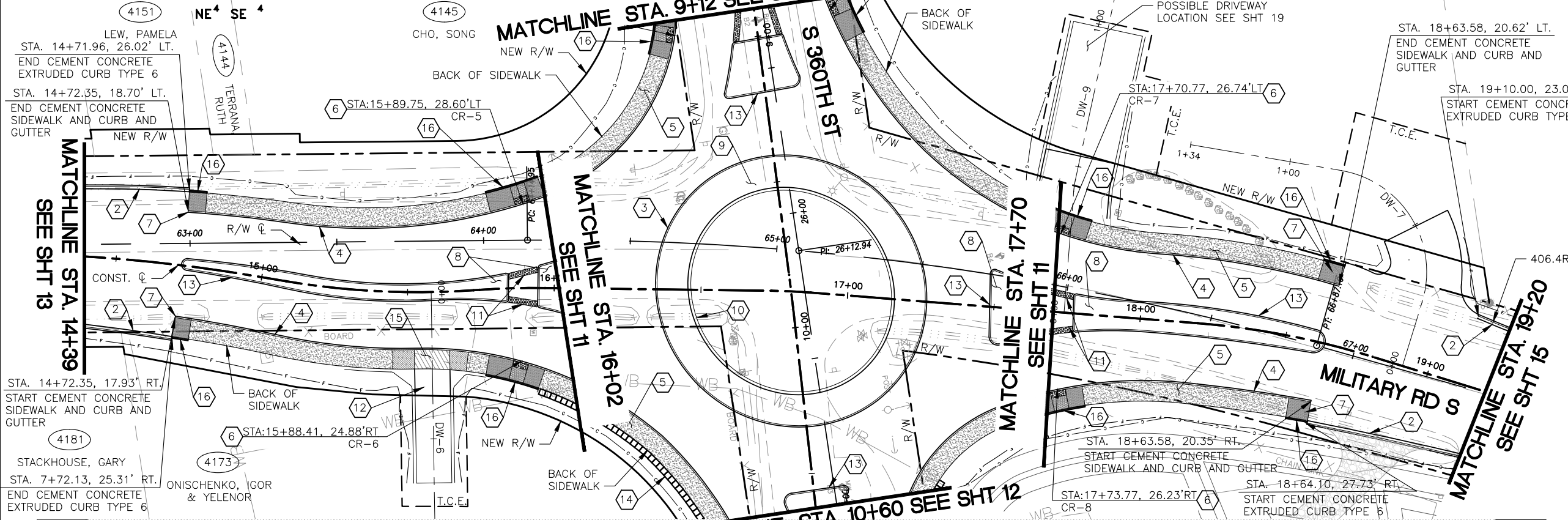
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PROGRESS COPY
03/03/22

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**
MILITARY RD S ROADWAY
PLAN AND PROFILE 1

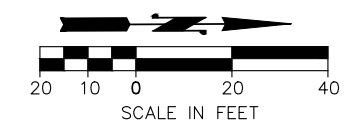
SHEET
13
OF
60
SHEETS
320-93 (13)

SEC. 27, T.21 N., R.4 E., W.M.



CONSTRUCTION NOTES

- 1 NEW PAVEMENT. SEE TYPICAL ROADWAY SECTION SHEETS.
- 2 INSTALL CEMENT CONCRETE EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F10.12-04.
- 3 INSTALL ROUNDABOUT TRUCK APRON CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD. PLAN F-10.18-01
- 4 INSTALL CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLN. F-10.12-04.
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- 7 INSTALL CEMENT CONCRETE CURB RAMP TRANSITION TO HMA. PER KCRDS FIG. 3-014.
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- 9 ROUNDABOUT TRUCK APRON. SEE TYPICAL ROADWAY SECTIONS.
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- 16 INSTALL CEMENT CONC. PEDESTRIAN CURB.



MERIDAN W.S.L.G.N.Z.

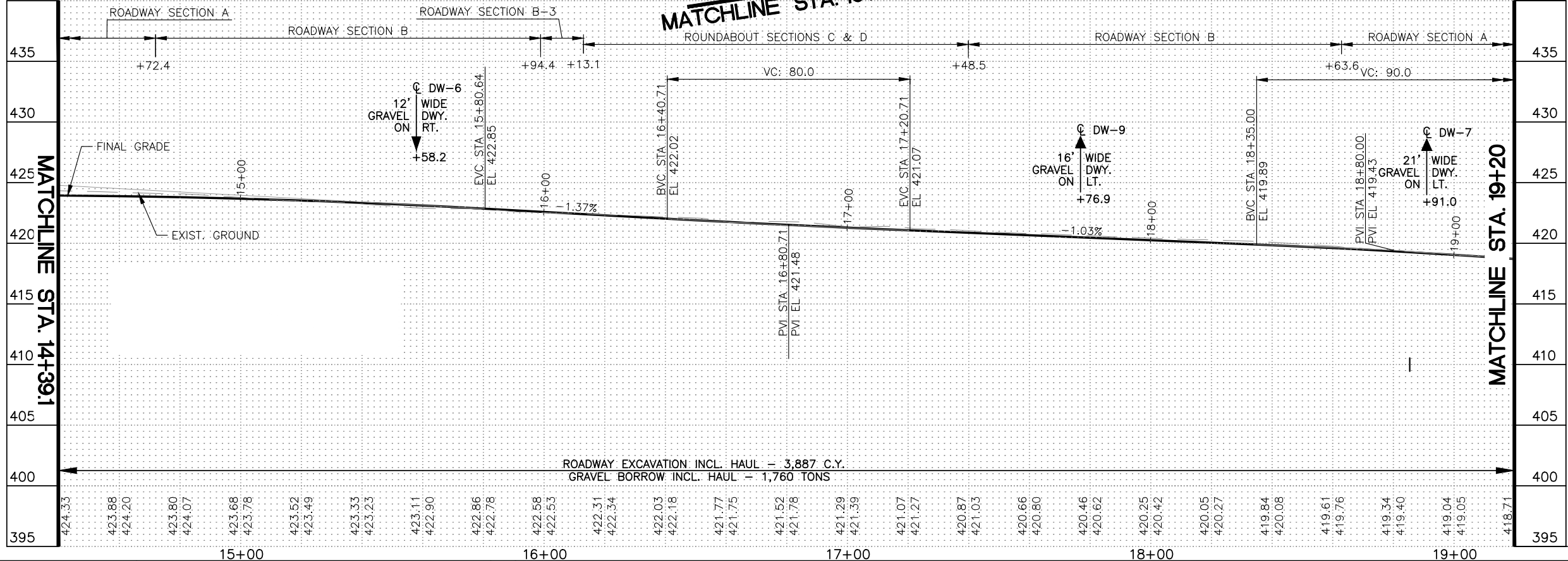
HORIZONTAL DATUM:
WASHINGTON STATE PLANE NORTH ZONE NAD '83/91 BASED UPON KING COUNTY SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING COUNTY SURVEY CONTROL

N.G.V.D. 88



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SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22
NUM.	REVISION	BY DATE

FED. AID No.	-
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

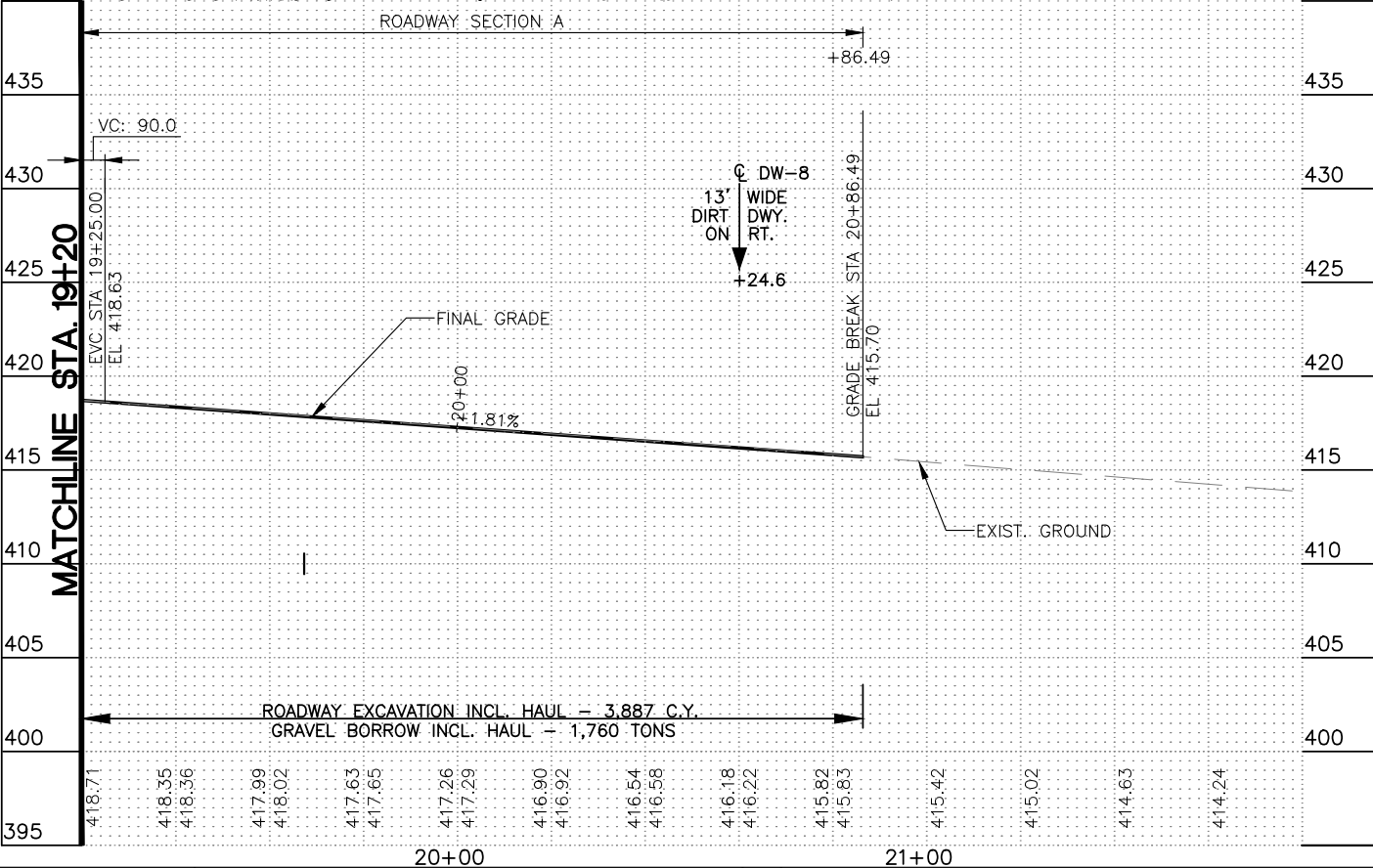
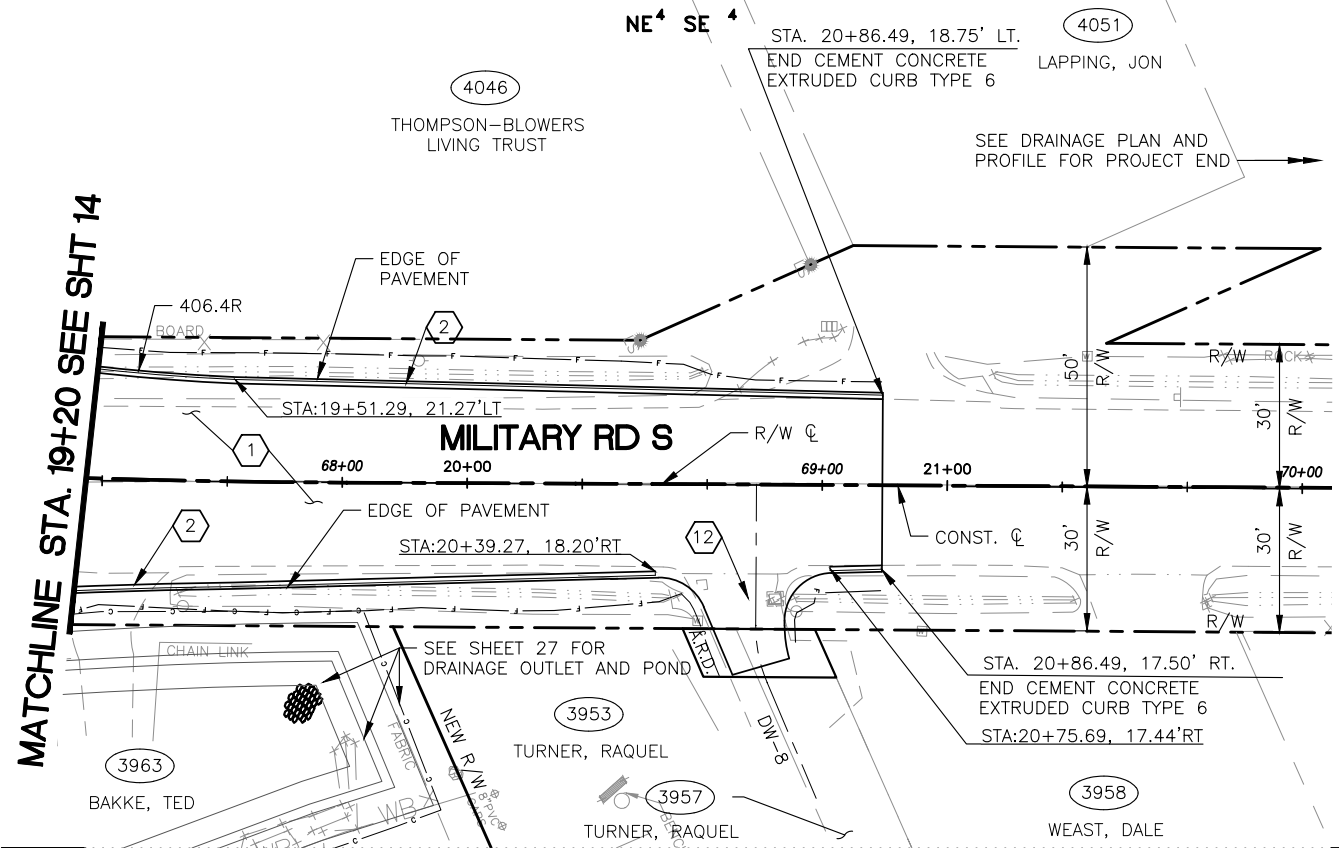
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 MILITARY RD S ROADWAY
 PLAN AND PROFILE 2

King County

SHEET **14**
OF **60**
SHEETS

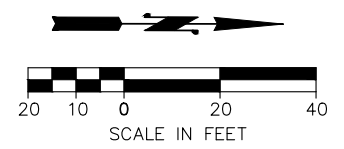
320-93 (14)

SEC. 27, T.21 N., R.4 E., W.M.



GENERAL NOTES CONSTRUCTION NOTES

- REFER TO SITE PREPARATION PLAN SHEETS 6-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
- NEW PAVEMENT. SEE TYPICAL ROADWAY SECTION SHEETS.
- INSTALL CEMENT CONCRETE EXTRUDED CURB TYPE 6 PER WSDOT STANDARD PLAN F10.12-04.
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- INSTALL CEMENT CONC. PEDESTRIAN CURB.



MERIDAN
W.S.L.G.N.Z.

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

N.G.V.D. 88



SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22
NUM.	REVISION	BY DATE

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FED. AID No.	-
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDABOUT**

MILITARY RD S ROADWAY
PLAN AND PROFILE 3

SHEET
15
OF
60
SHEETS

320-93 (15)

DRIVEWAY NOTES

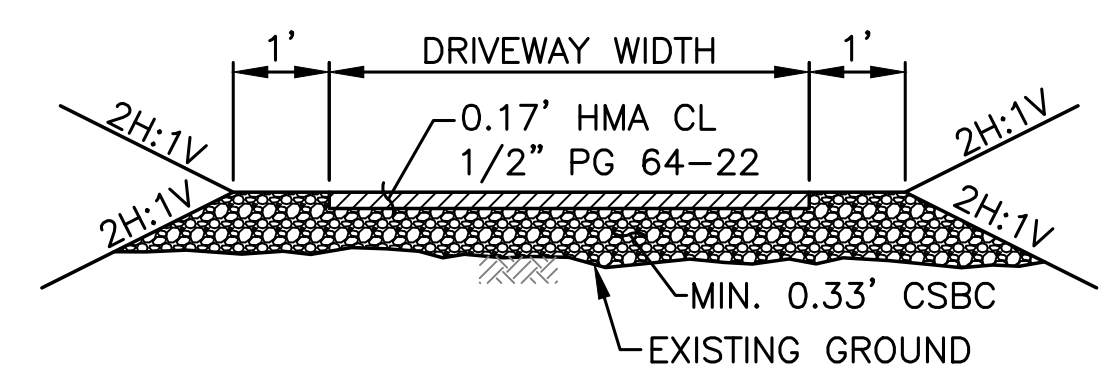
WIDTH
 REMOVING ASPHALT CONC. PAVEMENT
 ROADWAY EXCAVATION INCL. HAUL
 GRAVEL BORROW INCL. HAUL
 CRUSHED SURFACING BASE COURSE
 HMA CL 1/2" PG 64-22

DWY./ST. DESIGN	STATION	L.F.	S.Y.	C.Y.	TON	TON	TON	REMARKS
	S 360TH ST							
DW-1	-	-	-	-	-	-	-	NOTE
DW-2	-	-	-	-	-	-	-	NOTE
	MILITARY RD S							
DW-3	-	-	-	-	-	-	-	NOTE
DW-4	-	-	-	-	-	-	-	NOTE
DW-5	-	-	-	-	-	-	-	NOTE
DW-6	-	-	-	-	-	-	-	NOTE
DW-7	-	-	-	-	-	-	-	
DW-8	-	-	-	-	-	-	-	
TOTAL		#	#	#	##	#		

TO BE COMPLETED AT A LATER PHASE

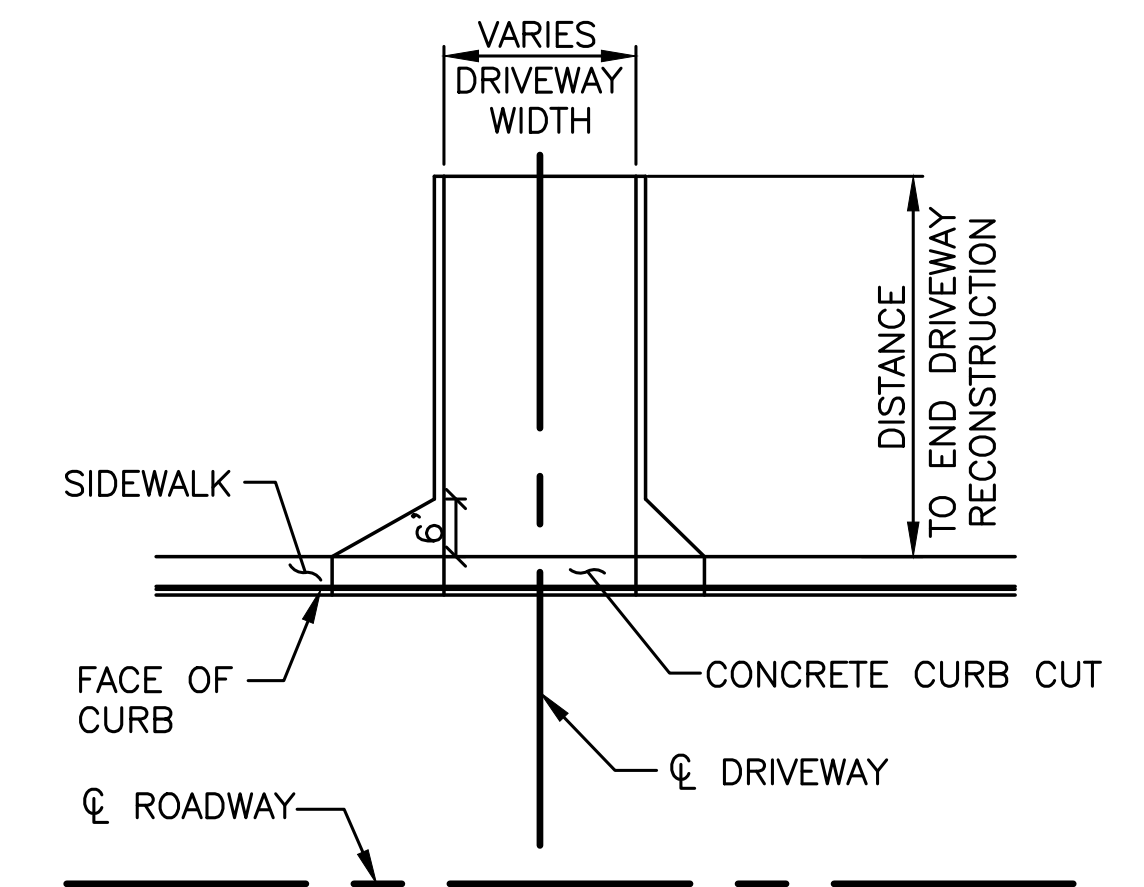
GENERAL NOTES

- ALL STATIONS FOR CONSTRUCTION OF DRIVEWAYS ARE MEASURED FROM THE CONSTRUCTION CENTERLINE (TYP.)
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WHICH AFFECT ACCESS WITH BUSINESS AND PROPERTY OWNERS.
- FOR DRIVEWAY PLAN AND SECTION, SEE DETAIL THIS SHEET AND PER KCRDCS FIG. 3-004 AND 3-007.
- DRIVEWAYS SHALL BE PAVED WITH HMA CONCRETE UP TO THE R/W LINE. BEYOND R/W SHALL BE ORIGINAL SURFACE, UNLESS OTHERWISE NOTED.



HMA DRIVEWAY SECTION

N.T.S.



TYPICAL DRIVEWAY PLAN

N.T.S.



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Call before you dig.

SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

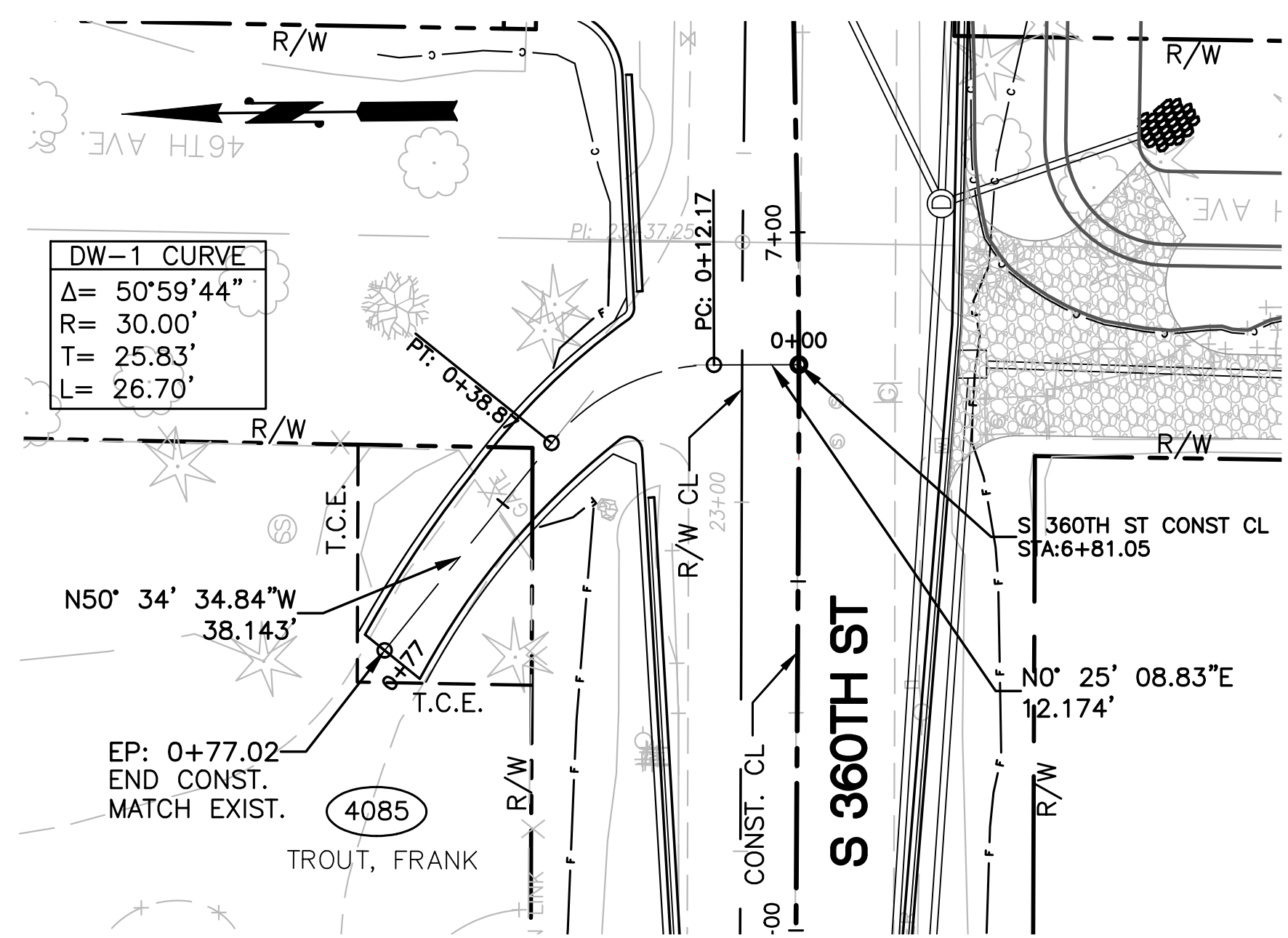
NUM.	REVISION	BY	DATE

90% DESIGN
PROGRESS COPY
03/03/22

FED. AID No. _____
 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

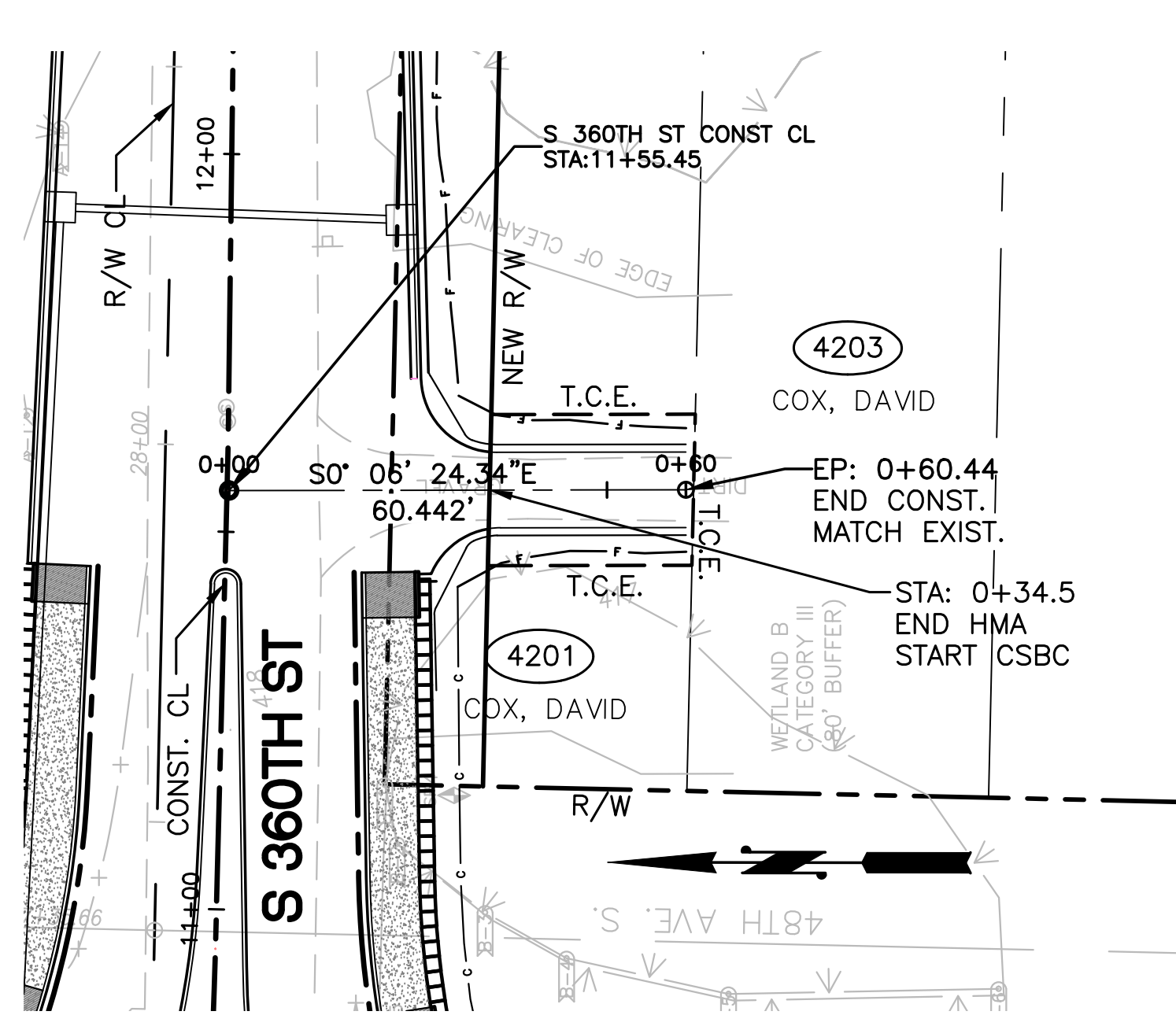
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 DRIVEWAY NOTES & DETAILS

SHEET
16
 OF
60
 SHEETS
320-93 (16)



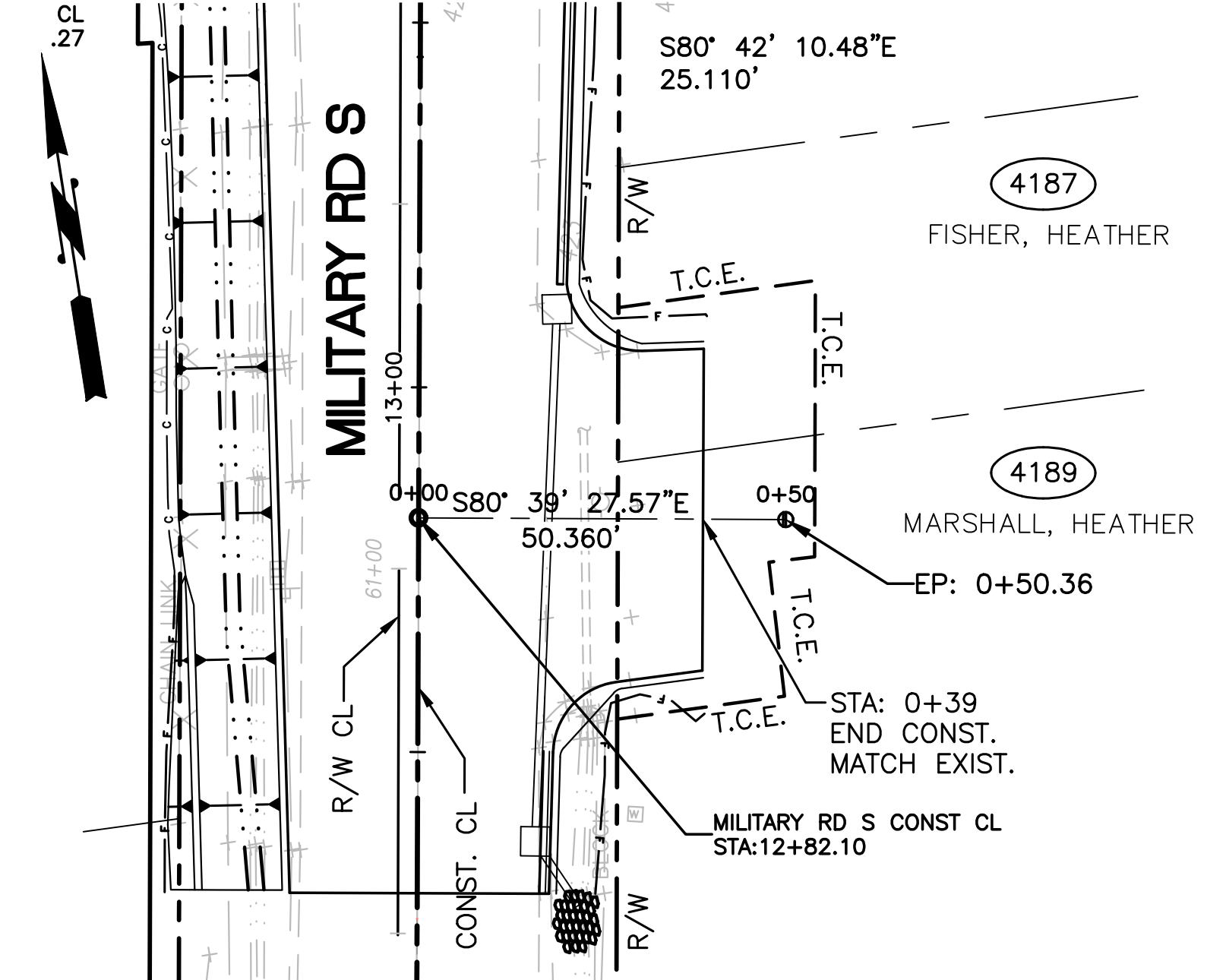
DW-1
STA. 6+81.05, LT.

11' WIDE HMA



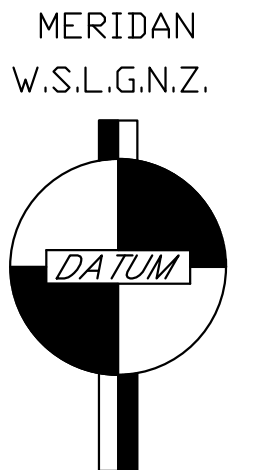
DW-2
STA. 11+55.45, RT.

10' WIDE HMA

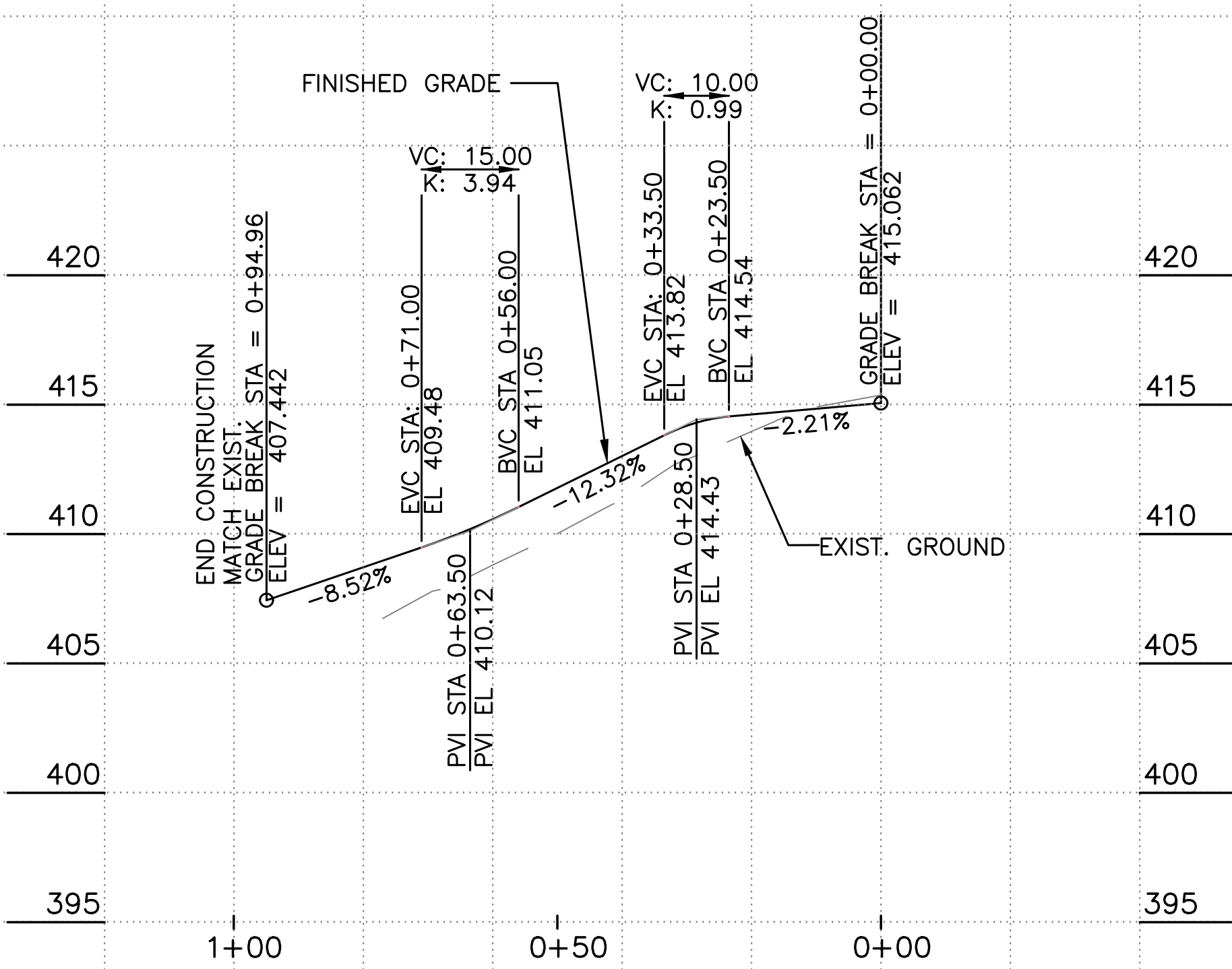


DW-3
STA. 12+82.10, RT.

45' WIDE HMA

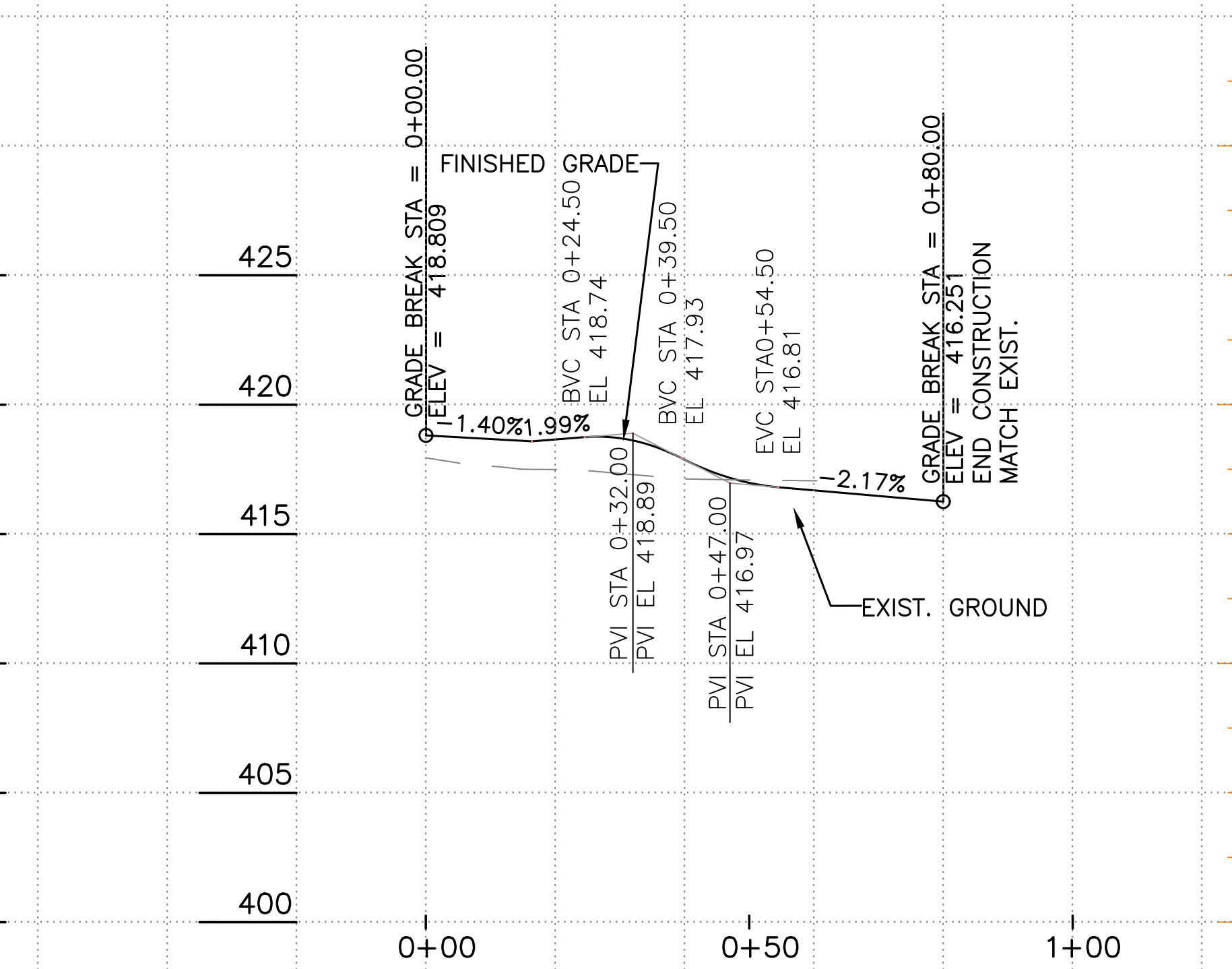


MERIDAN
W.S.L.G.N.Z.
N.G.V.D. 88



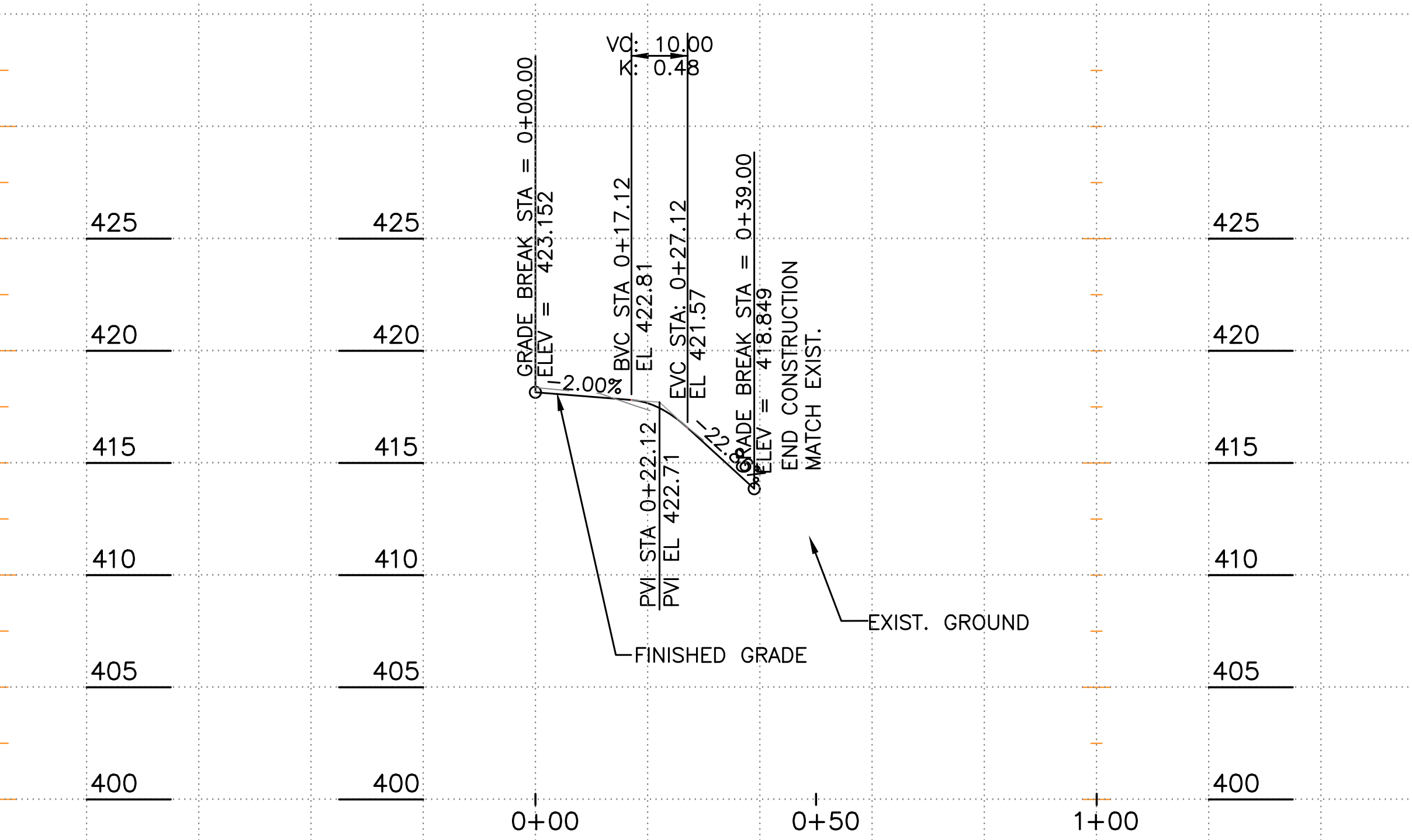
DW-1
STA. 6+81.05, LT.

11' WIDE HMA



DW-2
STA. 11+55.45, RT.

10' WIDE HMA



DW-3
STA. 12+82.10, RT.

45' WIDE HMA



Know what's below.
Call before you dig.

SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
	NUM.	REVISION	BY	DATE	

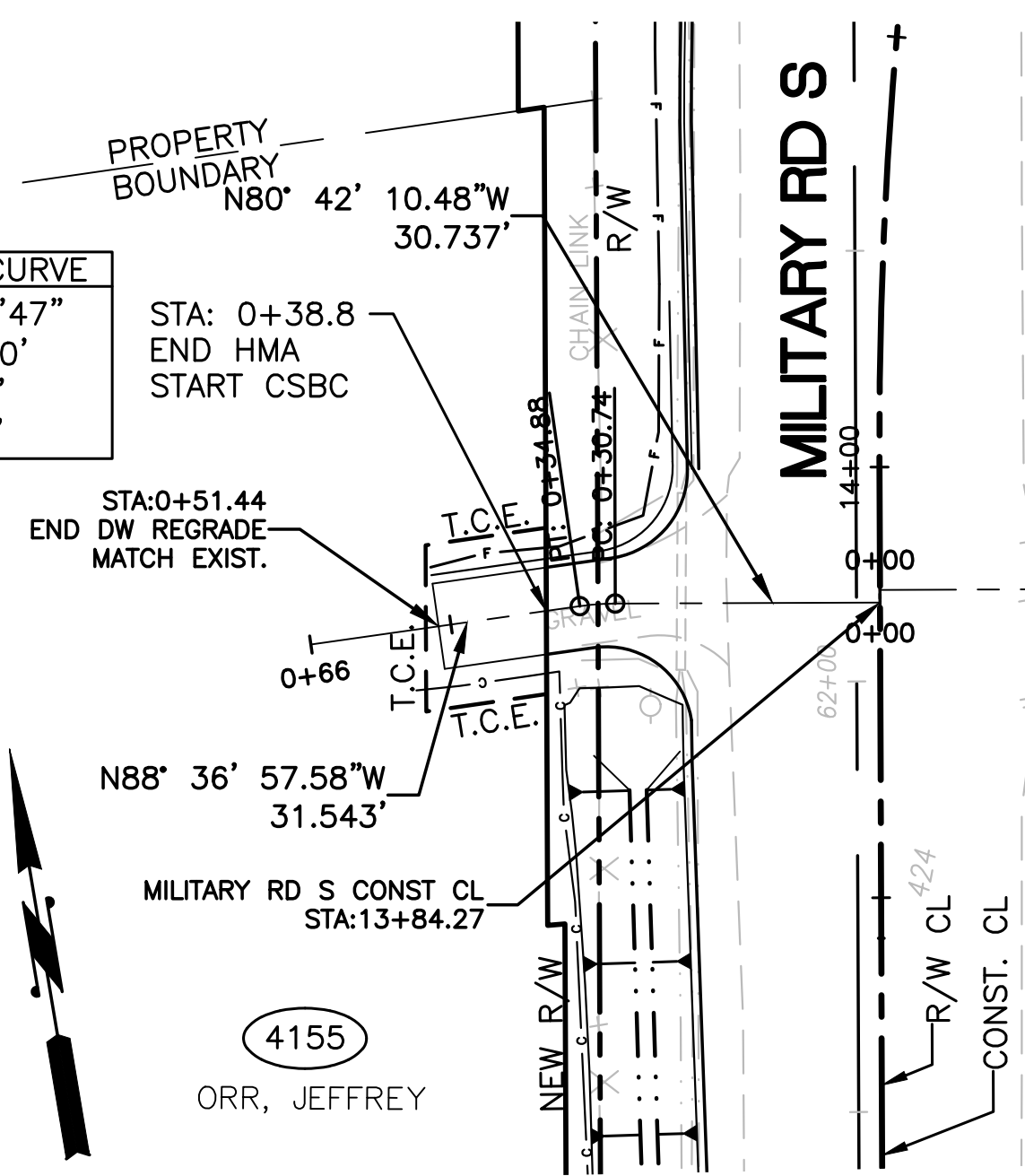
**90% DESIGN
PROGRESS COPY
03/03/22**

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

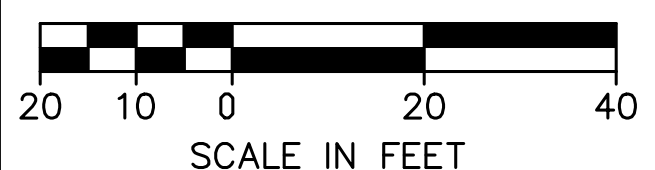
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
DRIVEWAY PROFILES
DW-1 TO DW-6

811
SHEET
17
OF
60
SHEETS
320-93 (17)

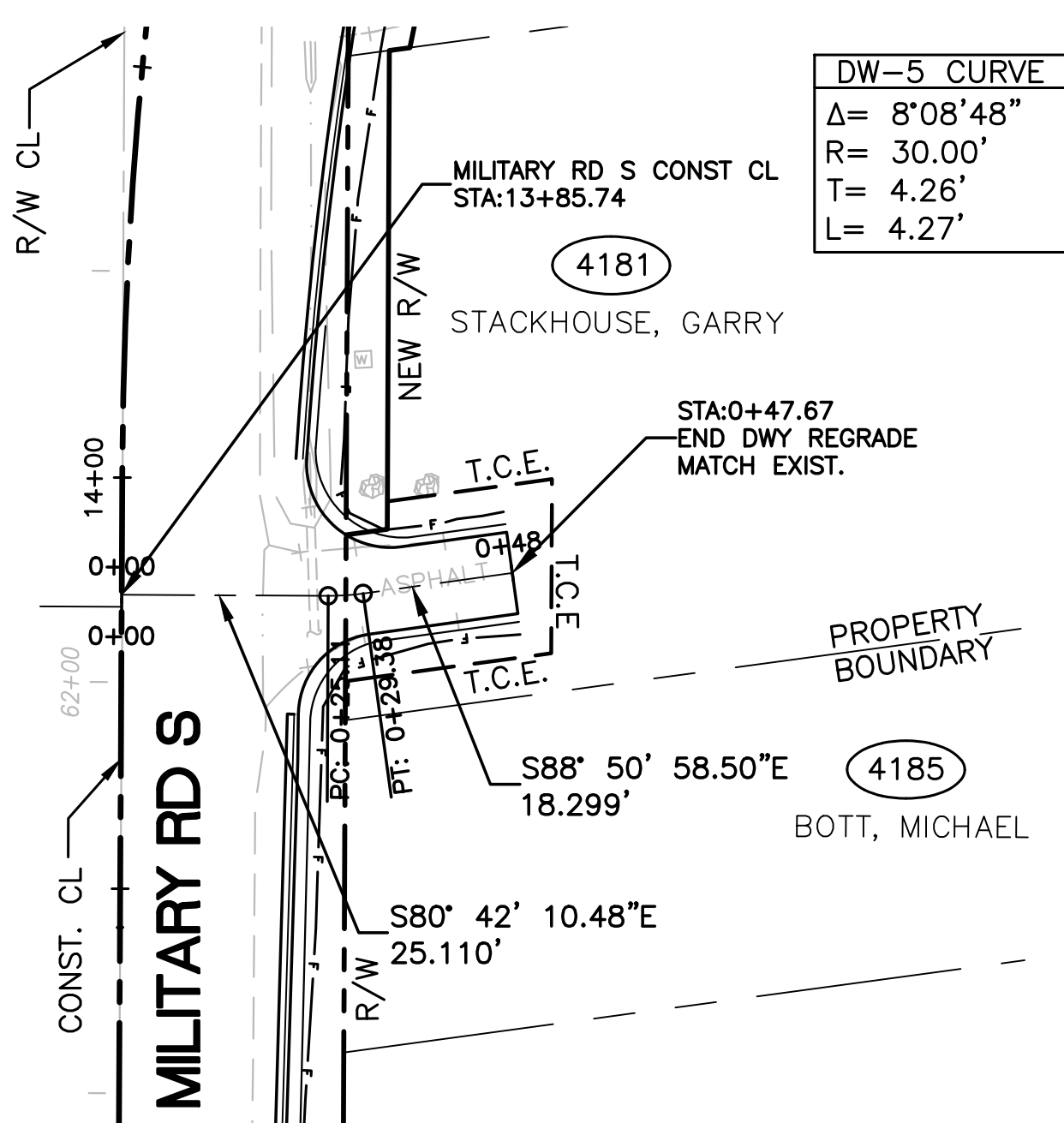
DW-4 CURVE
 $\Delta = 7^{\circ}54'47''$
 $R = 30.00'$
 $T = 4.14'$
 $L = 4.14'$



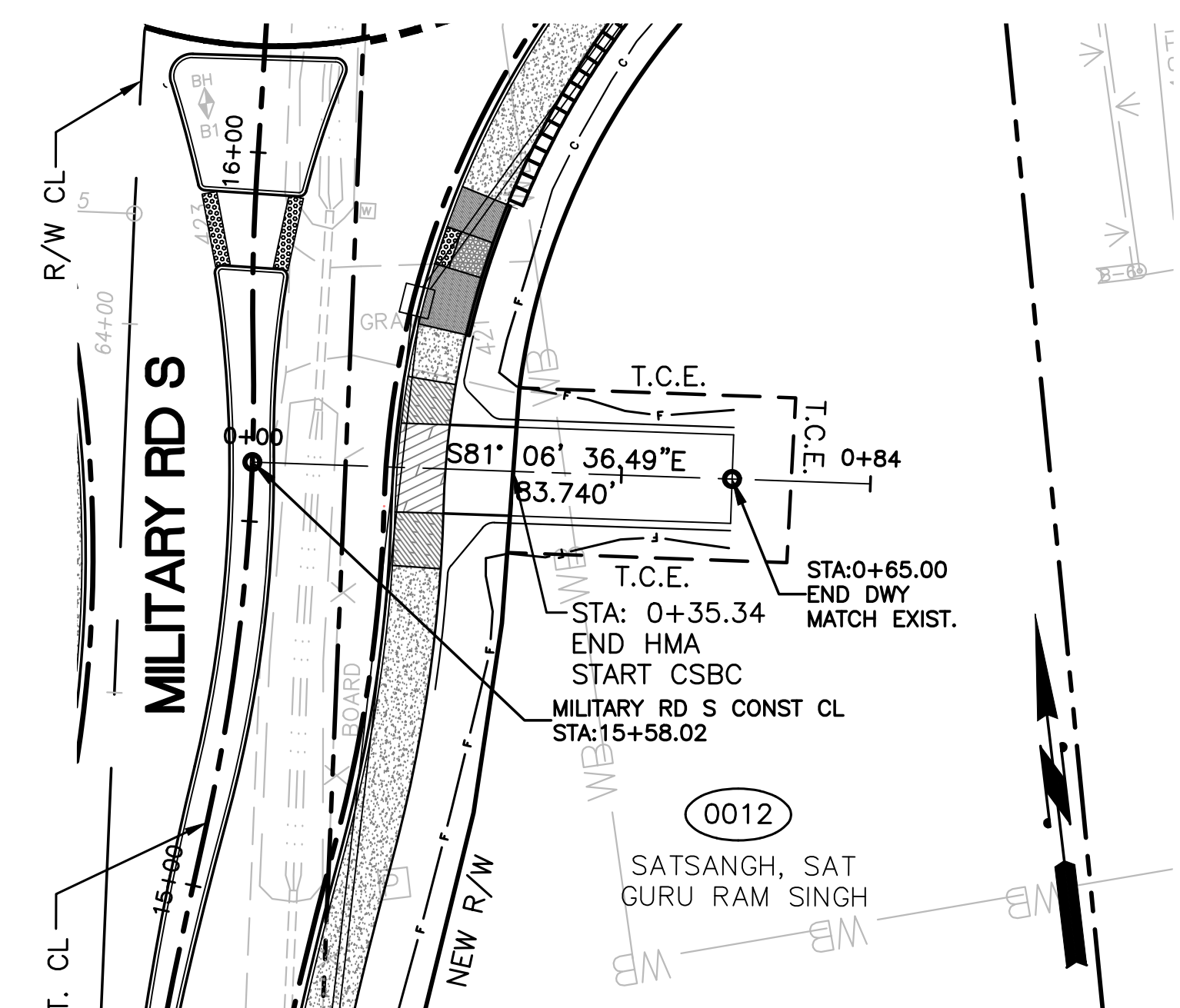
DW-4
STA. 13+84.27, LT.
 12' WIDE HMA



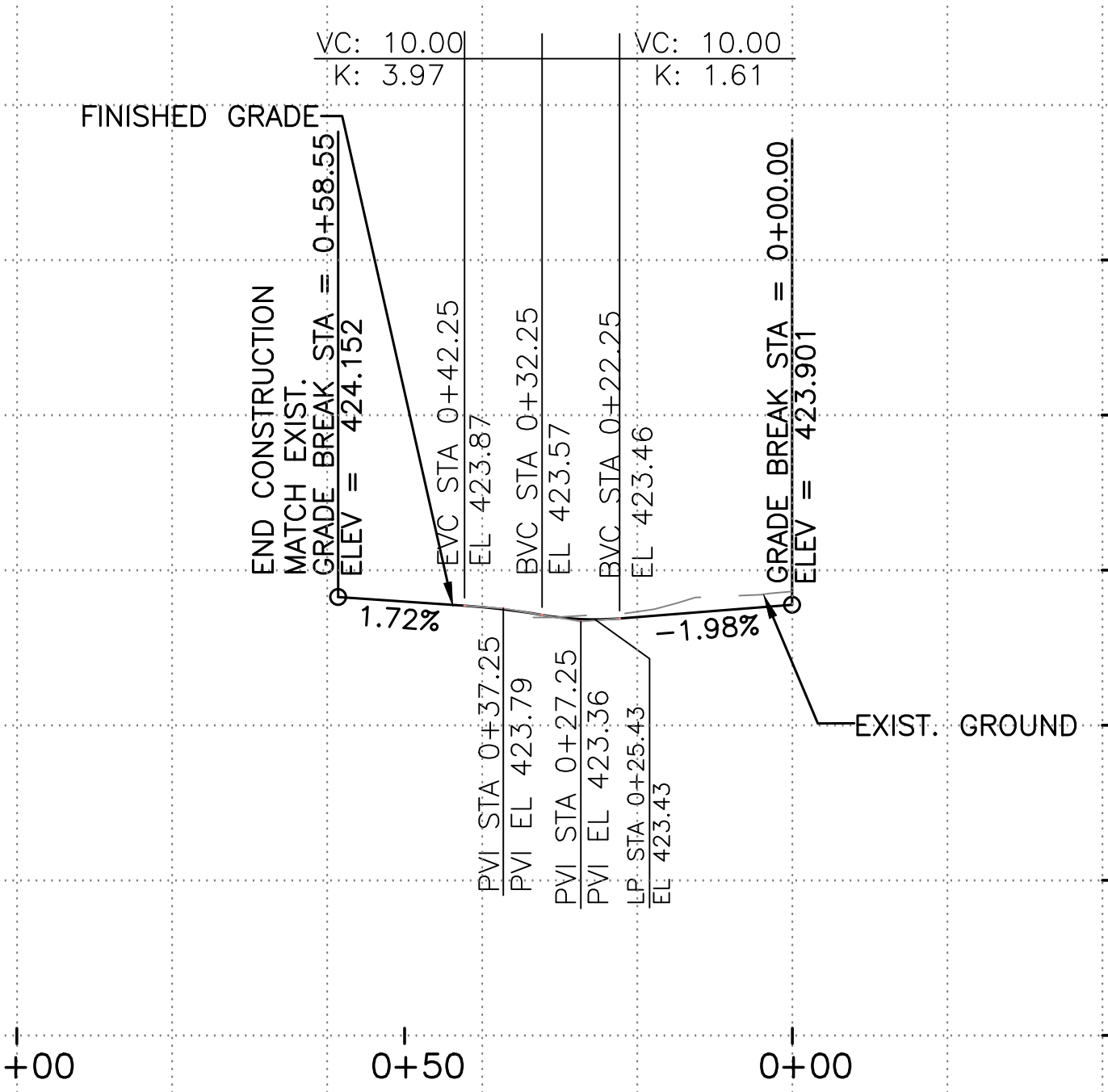
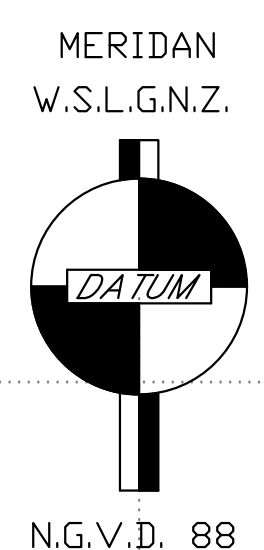
DW-5 CURVE
 $\Delta = 8^{\circ}08'48''$
 $R = 30.00'$
 $T = 4.26'$
 $L = 4.27'$



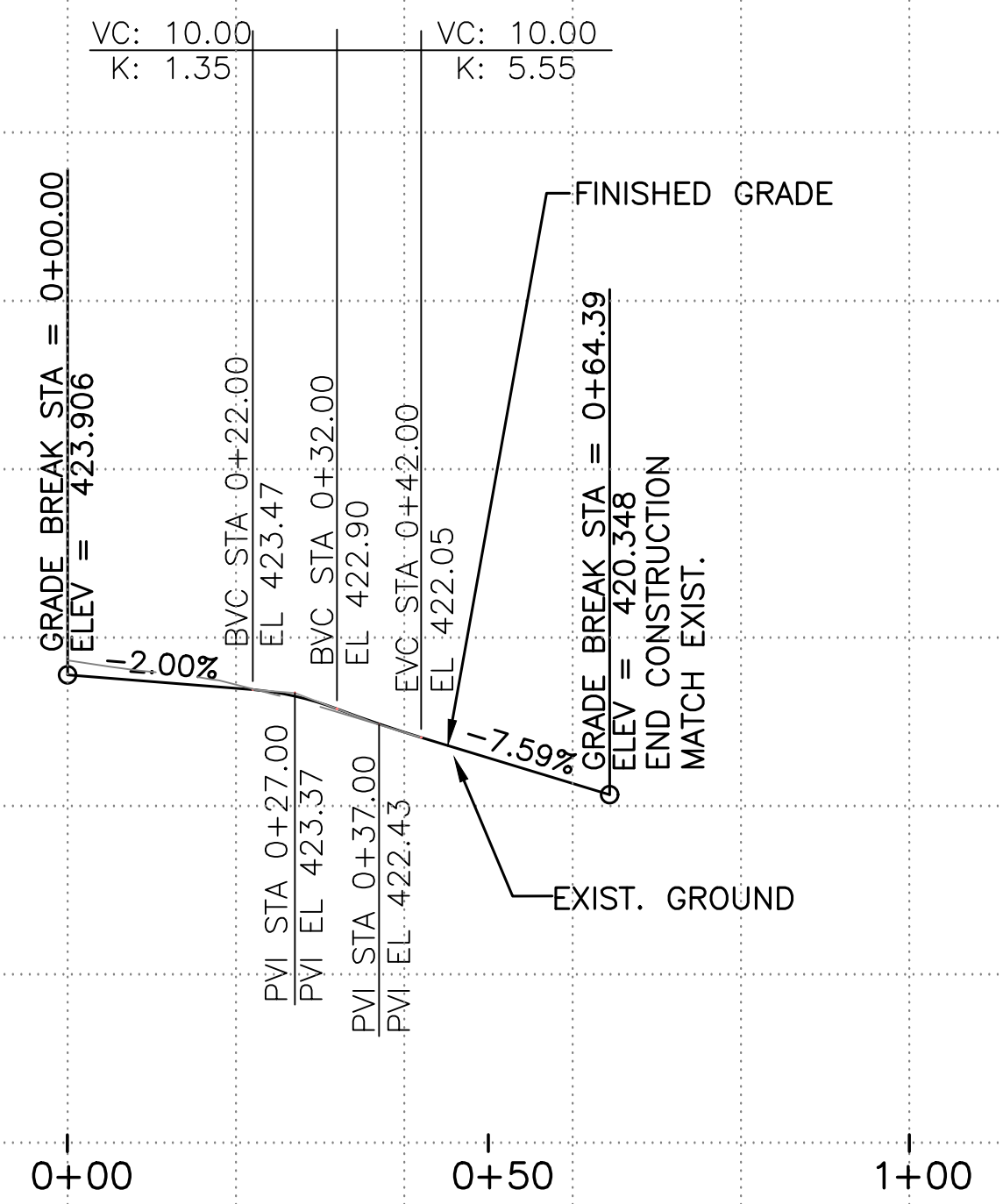
DW-5
STA. 13+85.74, RT.
 10' WIDE HMA



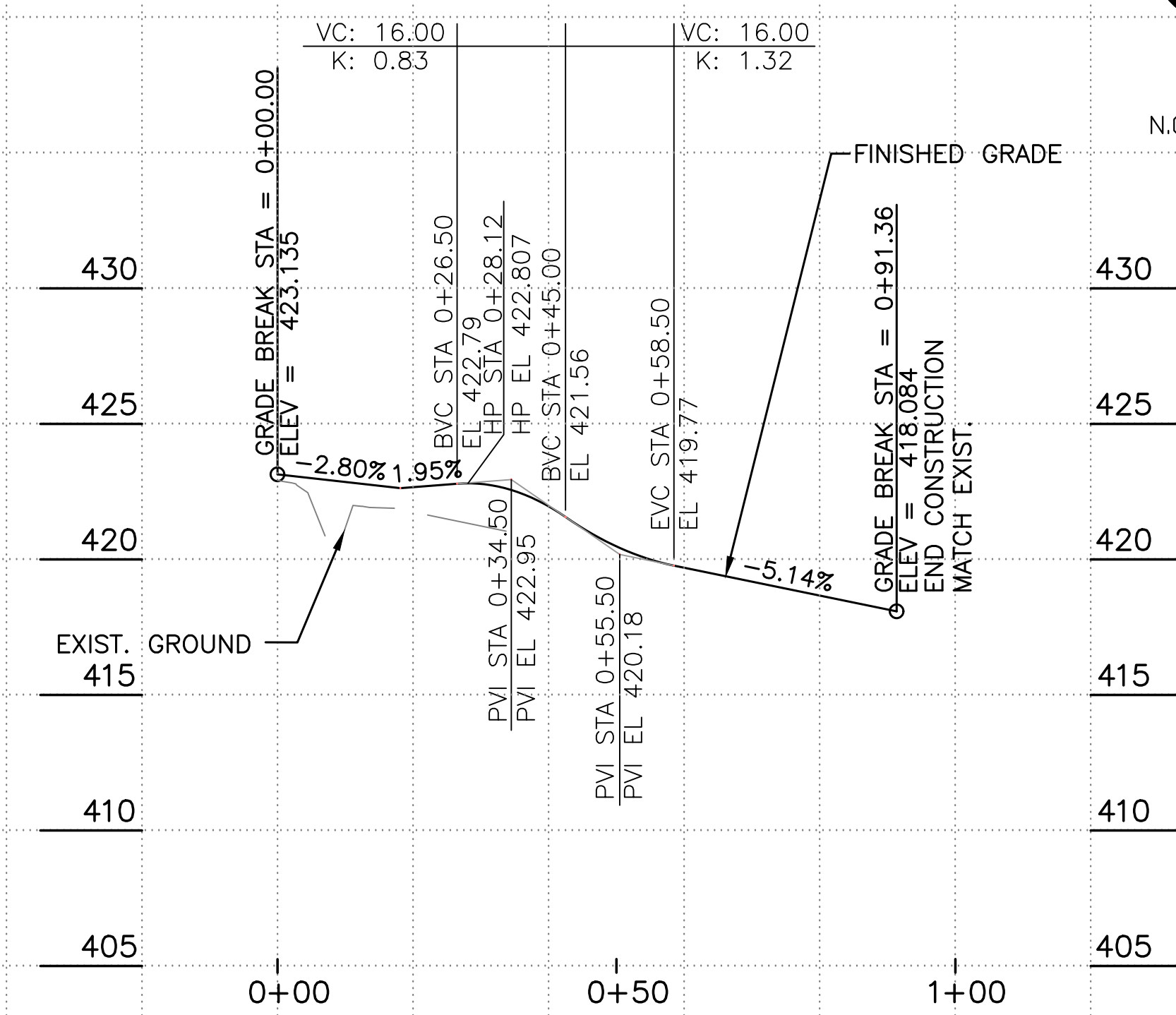
DW-6
STA. 15+58.02, RT.
 12' WIDE HMA



DW-4
STA. 13+84.27, LT.
 12' WIDE HMA



DW-5
STA. 13+85.74, RT.
 10' WIDE HMA



DW-6
STA. 15+58.02, RT.
 12' WIDE HMA

SURVEY JOB No.:	17042	05/2019		
CHECKED:	T. CRAY	05/2019		
CAD ENTERED:	VERDUGO/PARRETT	2/14/22		
DESIGNED:	A. VERDUGO	2/14/22		
CHECKED:	M. KARINEN	2/14/22		
SUPERVISOR:	A. MCMANUS	2/14/22		
NUM.	REVISION	BY	DATE	

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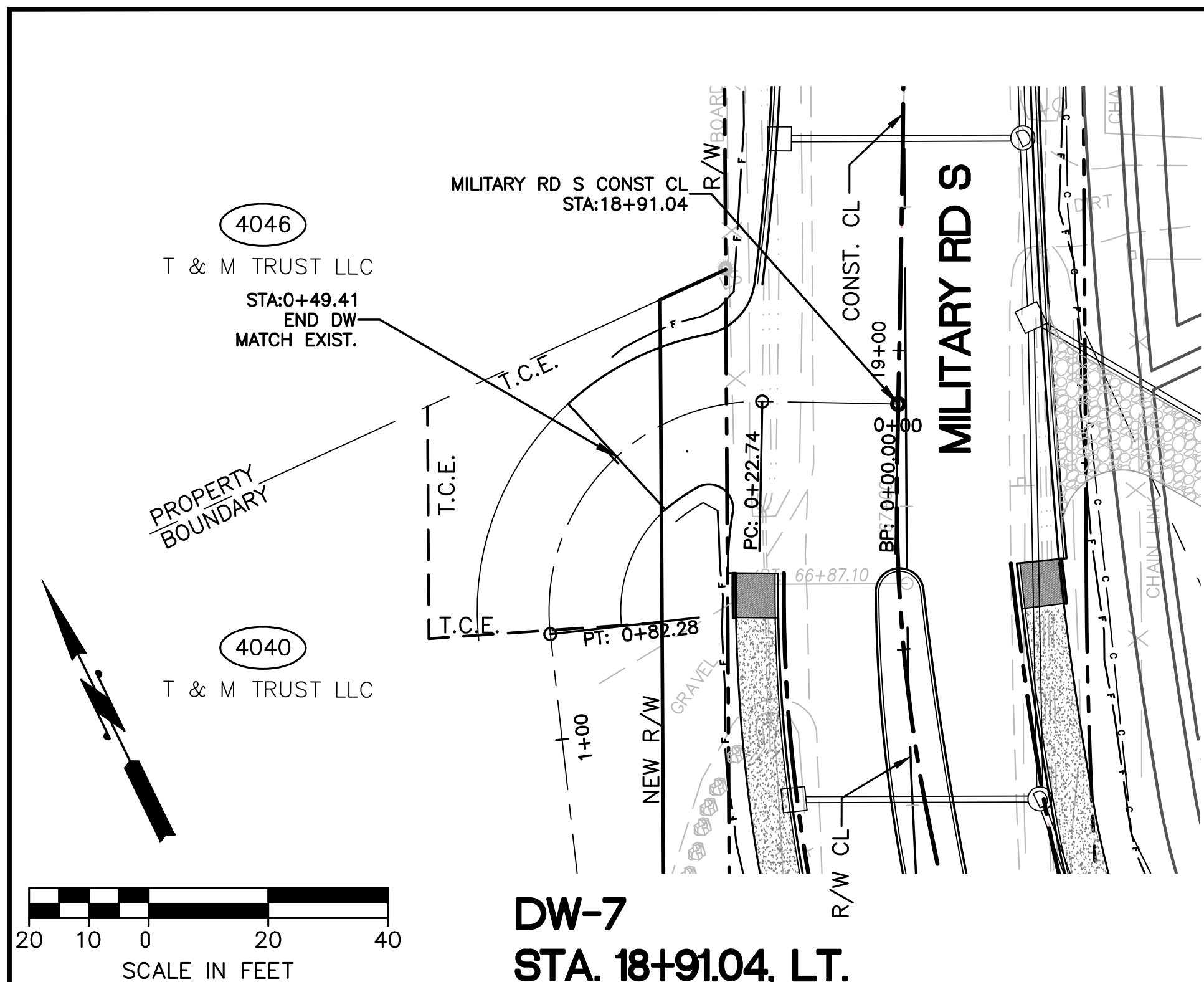
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 DRIVEWAY PROFILES
 DW-4 TO DW-6

Know what's below.
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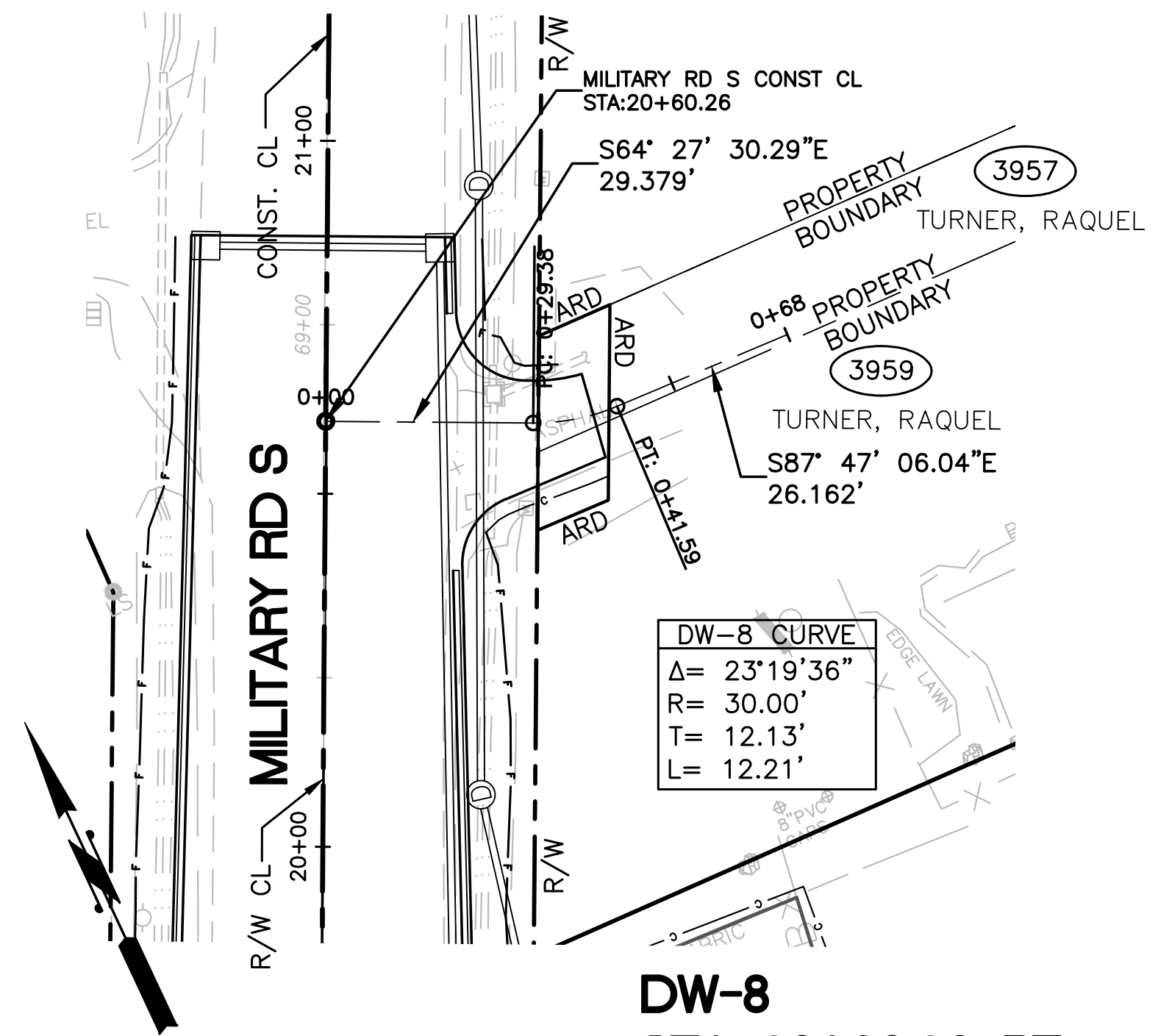
811
 King County

SHEET
18
 OF
60
 SHEETS

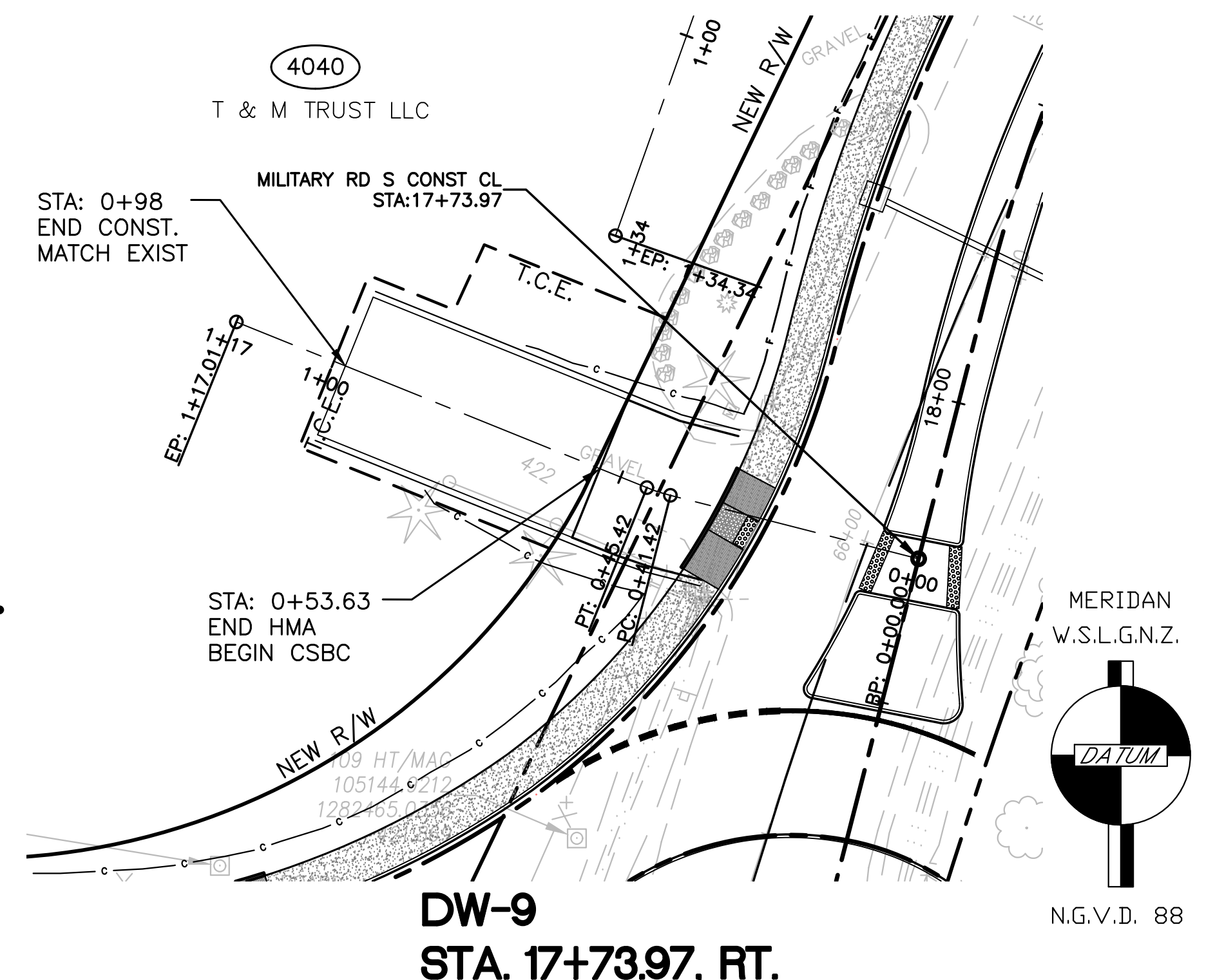
320-93 (18)



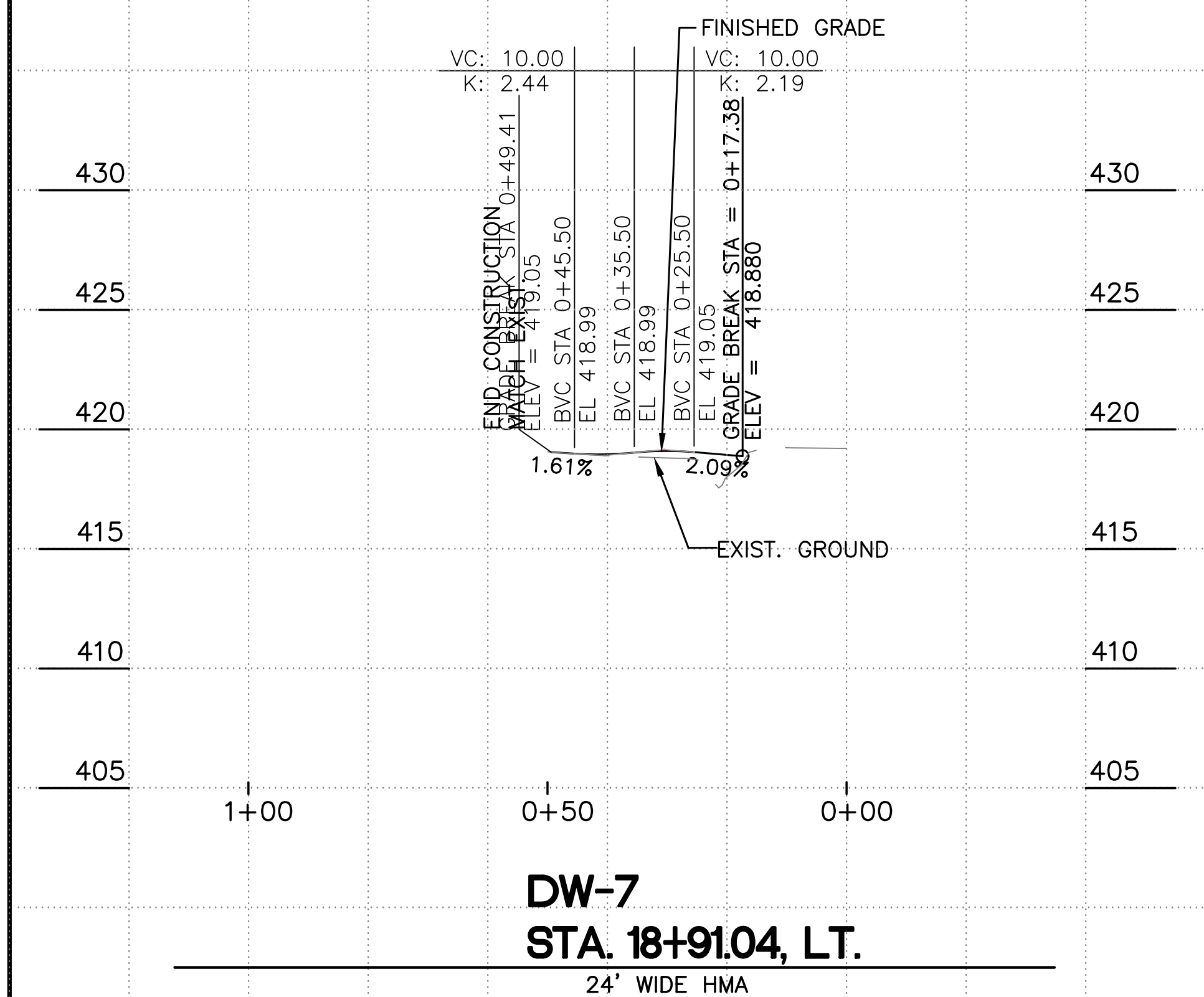
DW-7
STA. 18+91.04, LT.
 24' WIDE HMA



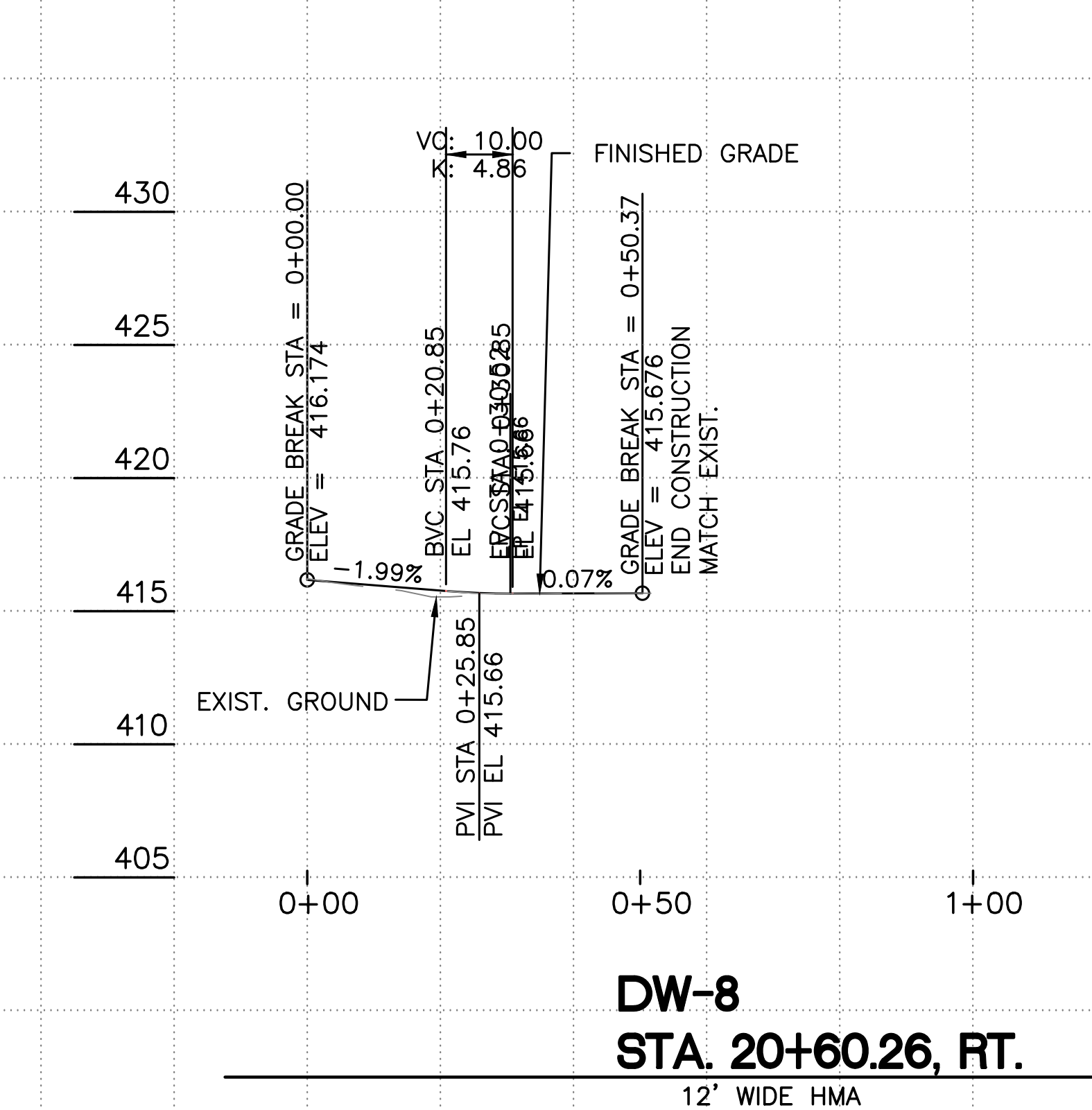
DW-8
STA. 20+60.26, RT.
 12' WIDE HMA



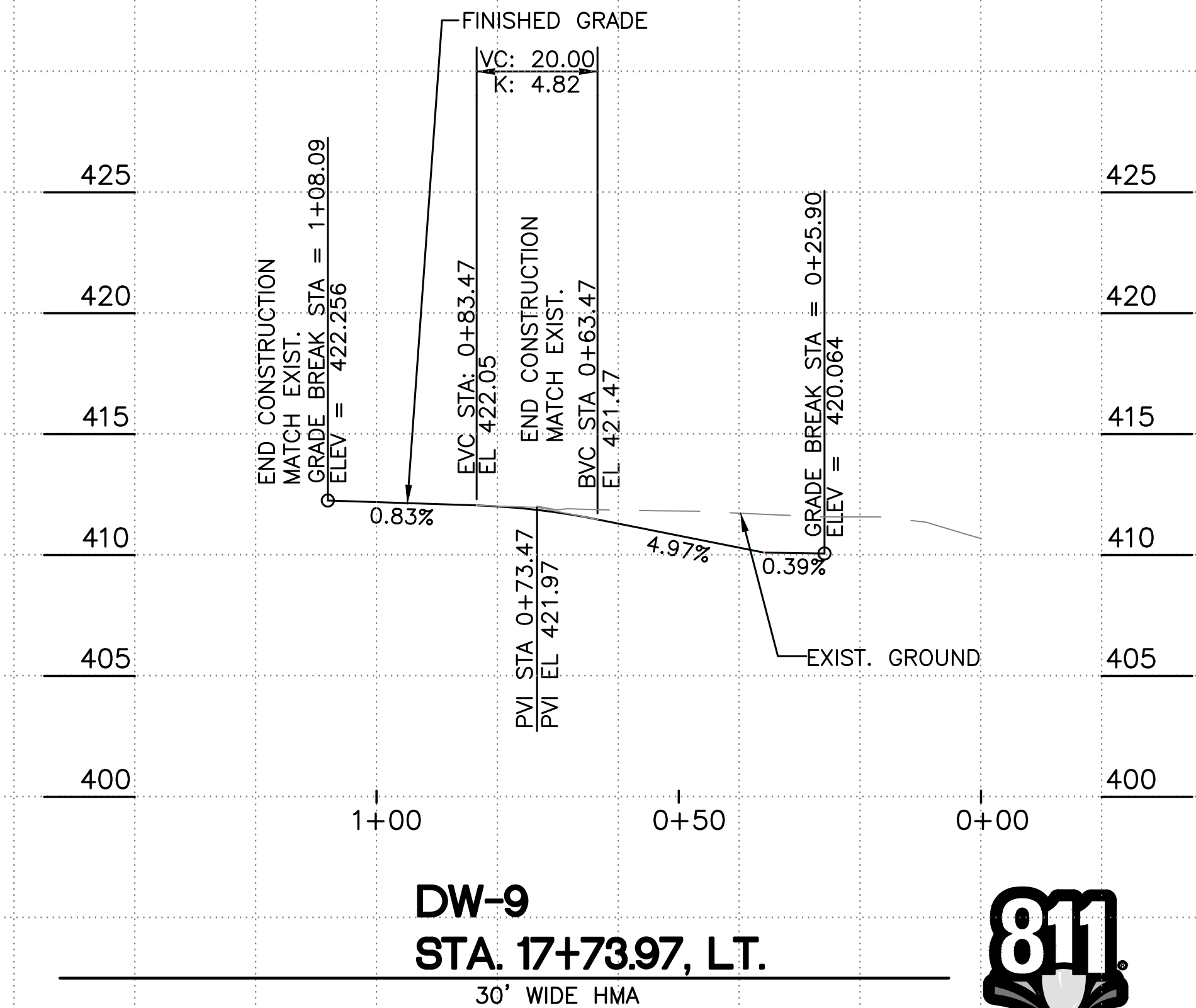
DW-9
STA. 17+73.97, RT.
 30' WIDE HMA



DW-7
STA. 18+91.04, LT.
 24' WIDE HMA



DW-8
STA. 20+60.26, RT.
 12' WIDE HMA



DW-9
STA. 17+73.97, LT.
 30' WIDE HMA



Know what's below.
 Call before you dig.

SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

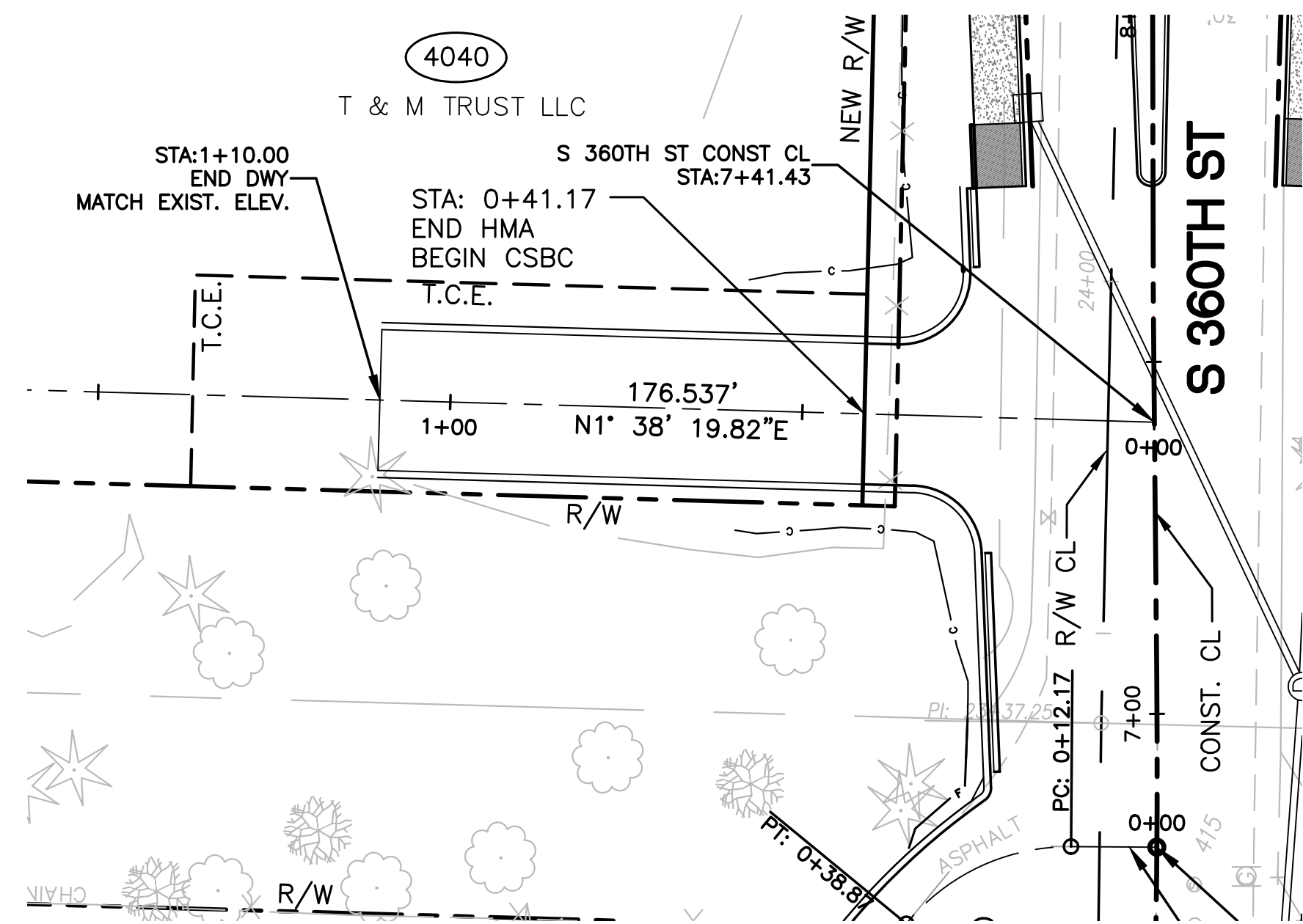
NUM.	REVISION	BY	DATE

**90% DESIGN
 PROGRESS COPY
 03/03/22**

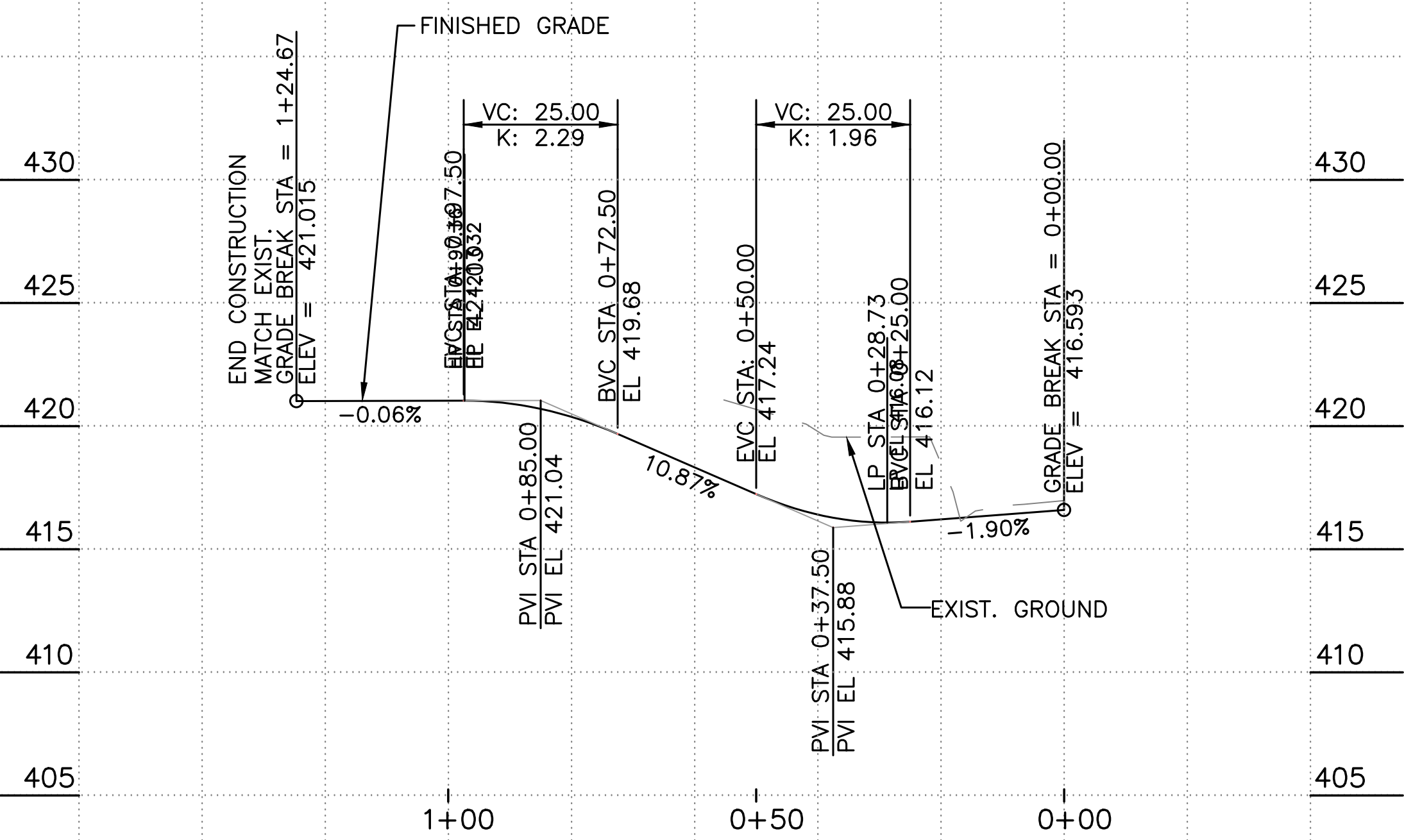
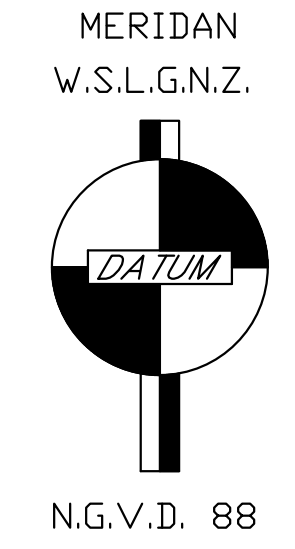
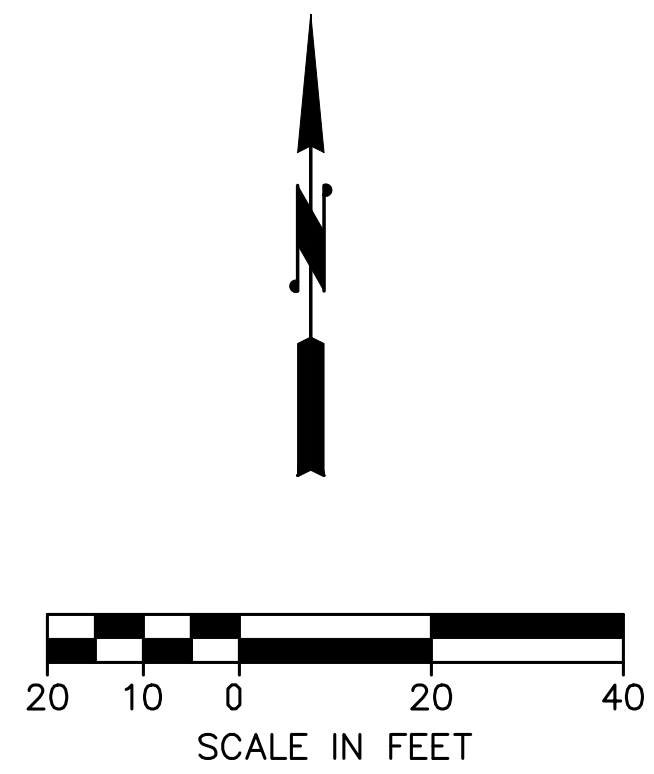
FED. AID No. _____
 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 DRIVEWAY PROFILES
 DW-7 TO DW-9

811
 SHEET
19
 OF
60
 SHEETS
320-93 (19)



DW-10
STA. 7+41.43, LT.
 20' WIDE HMA



DW-10
STA. 7+41.43, LT.
 20' WIDE HMA



Know what's below.
 Call before you dig.

SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
	NUM.	REVISION	BY	DATE	

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PROGRESS COPY
03/03/22

FED. AID No. _____
 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
S 360th ST AND MILITARY RD S
ROUNDBOUT
 DRIVEWAY PROFILES
 DW-10

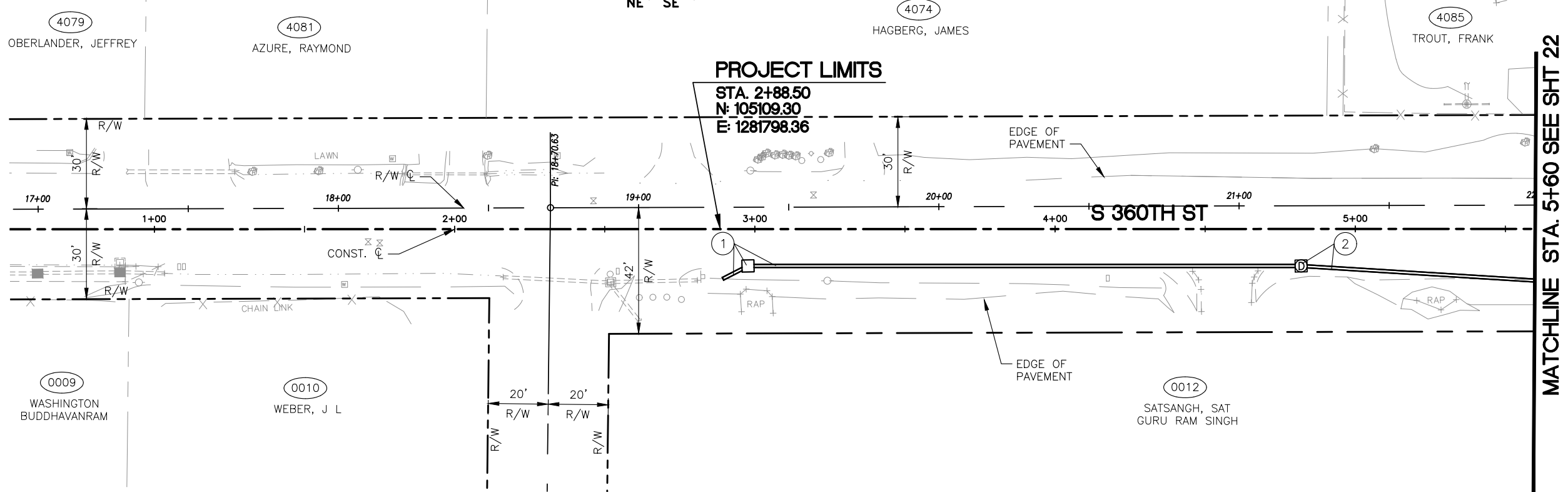
811
 SHEET
20
 OF
60
 SHEETS
320-93 (20)

SEC. 27, T.21 N., R.4 E., W.M.

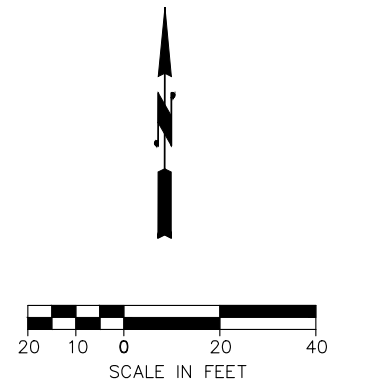
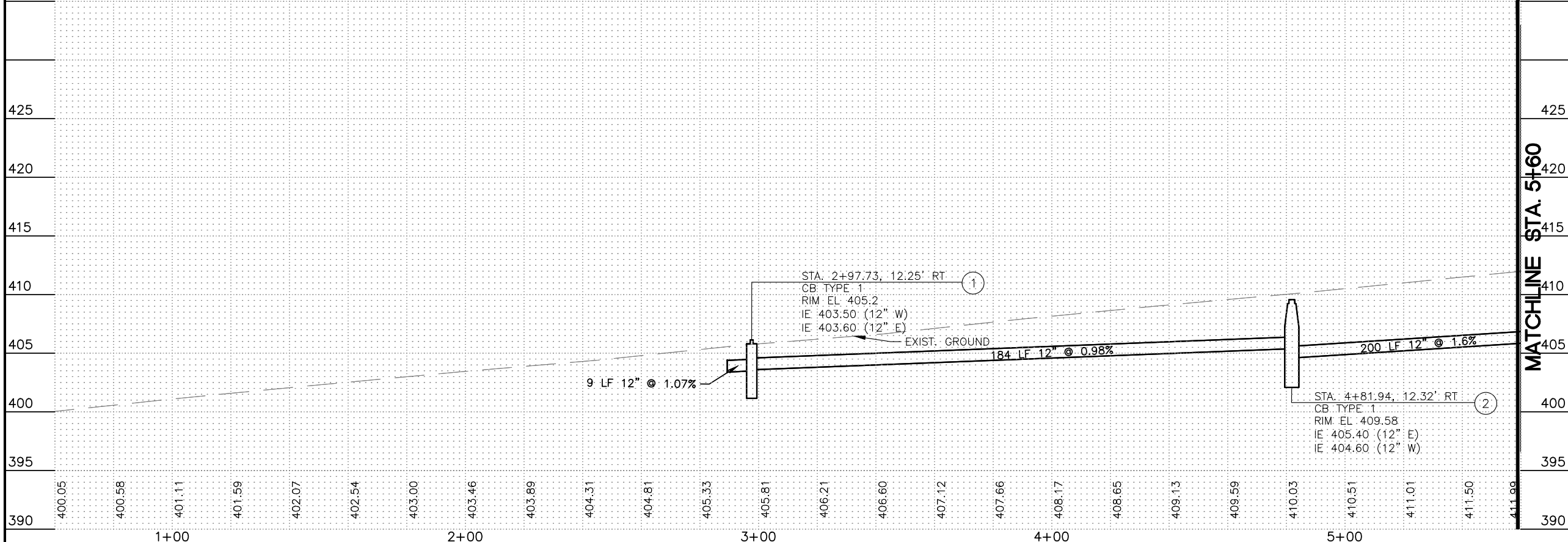
NE SE

GENERAL NOTES

1. REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
2. (#) DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.



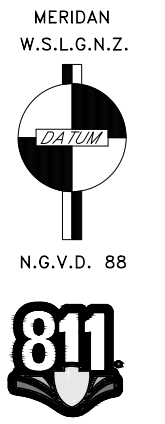
MATCHLINE STA. 5+60 SEE SHT 22



MATCHLINE STA. 5+60

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



Know what's below.
Call before you dig.

SURVEY JOB NO:	17042	05/2019
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DESIGNED:	A. VERDUGO	2/14/22
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SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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03/03/22**

FED. AID No. _____

PROJECT No. 1131235

MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAUT**
S 360TH ST STORM DRAINAGE
PLAN AND PROFILE 1

SHEET
21
OF
60
SHEETS

320-93 (21)

SEC. 27, T.21 N., R.4 E., W.M.

GENERAL NOTES

1. REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
2. (#) DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.

MATCHLINE STA. 5+60 SEE SHT 21

MATCHLINE STA. 10+60 SEE SHT 23

MATCHLINE STA. 5+60

MATCHLINE STA. 10+60

SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

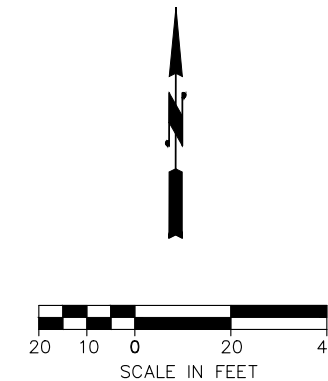
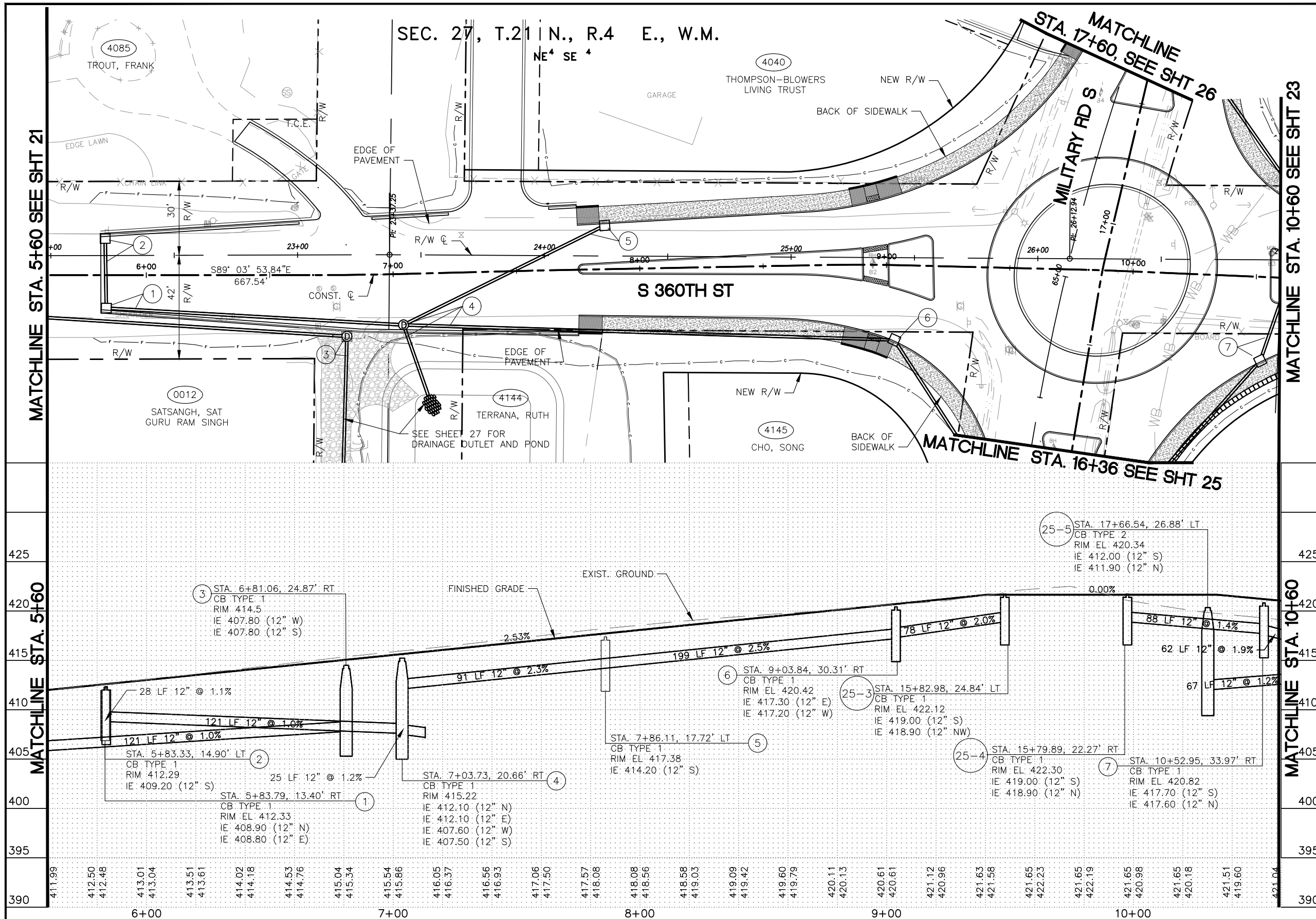
NUM.	REVISION	BY	DATE

**90% DESIGN
PROGRESS COPY
03/03/22**

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

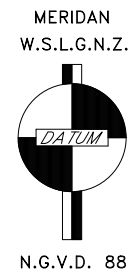
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAUT**
S 360TH ST STORM DRAINAGE
PLAN AND PROFILE 2

811
Know what's below.
Call before you dig.
SHEET **22**
OF **60**
SHEETS
320-93 (22)



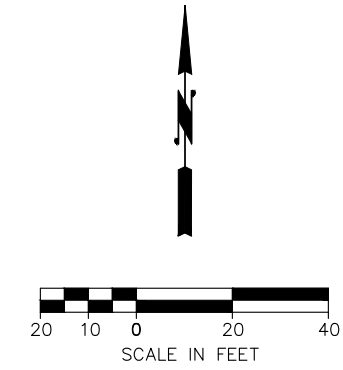
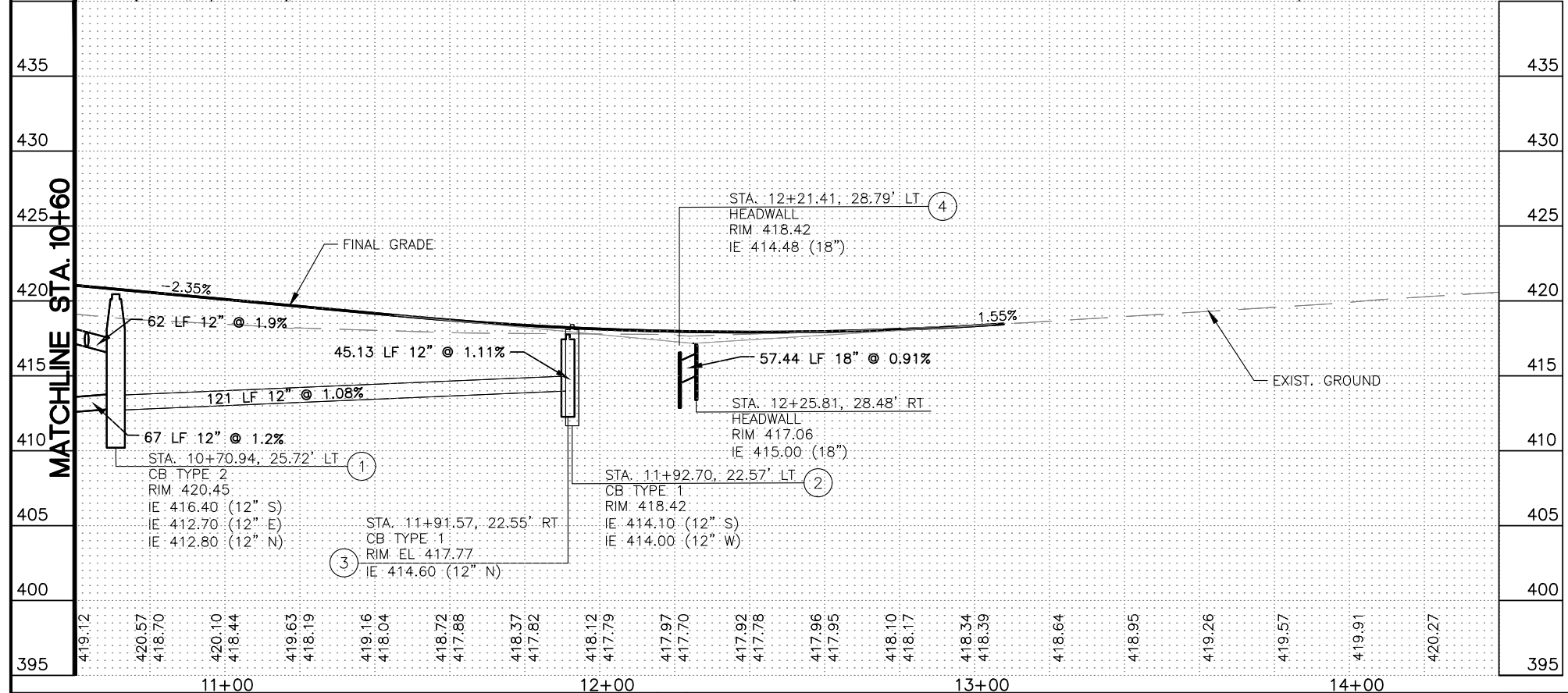
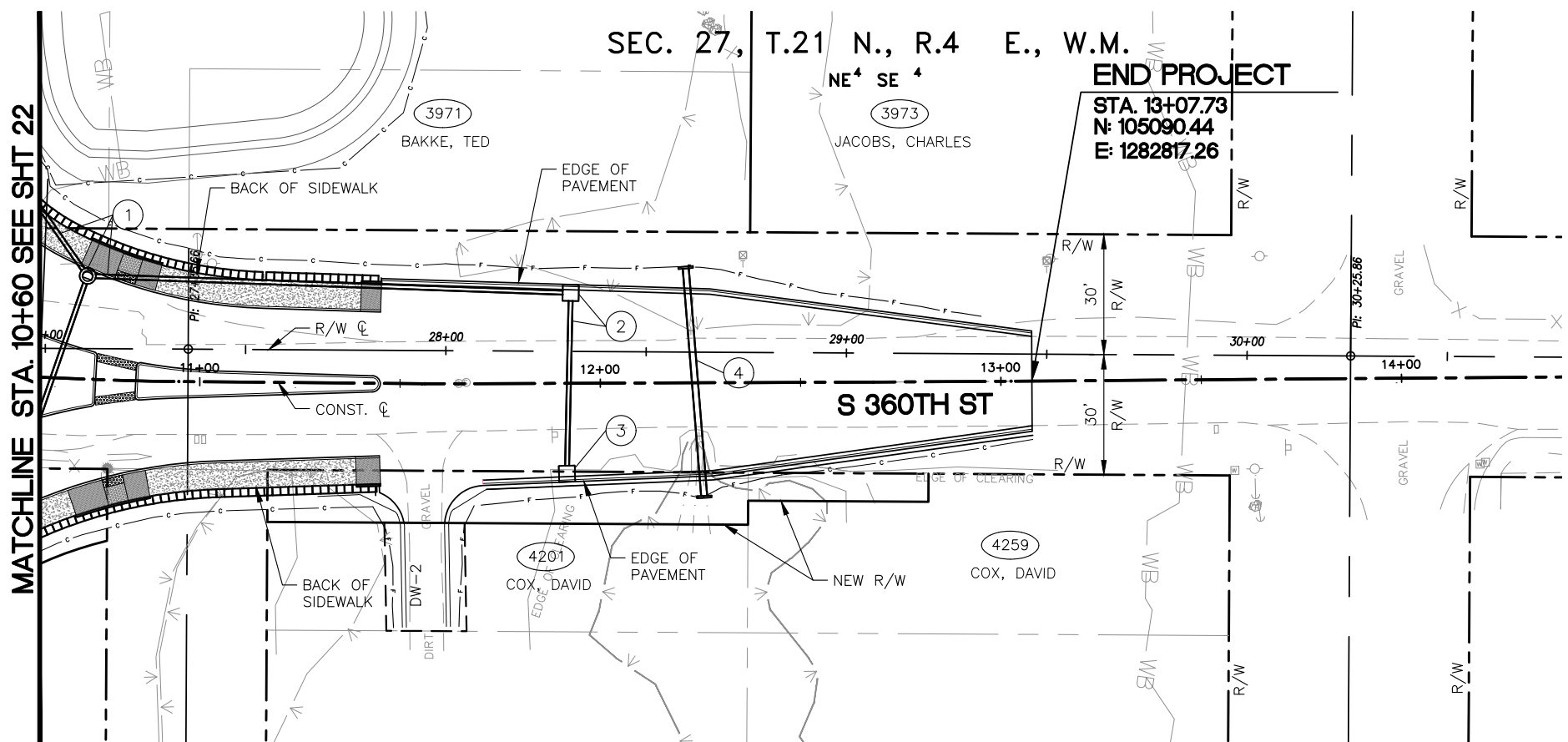
HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

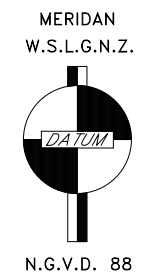


GENERAL NOTES

- REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
- # DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.



VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

811
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SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
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DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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03/03/22**

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
S 360TH ST STORM DRAINAGE
PLAN AND PROFILE 3

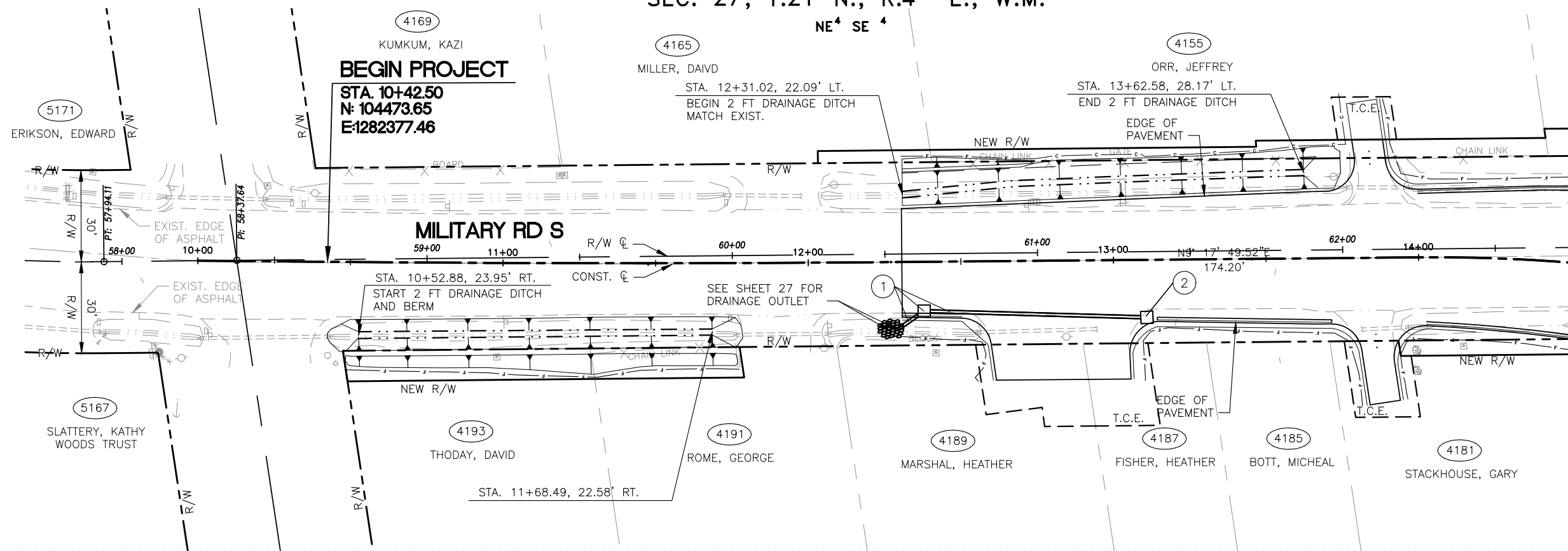
King County
SHEET
23
OF
60
SHEETS
320-93 (23)

SEC. 27, T.21 N., R.4 E., W.M.

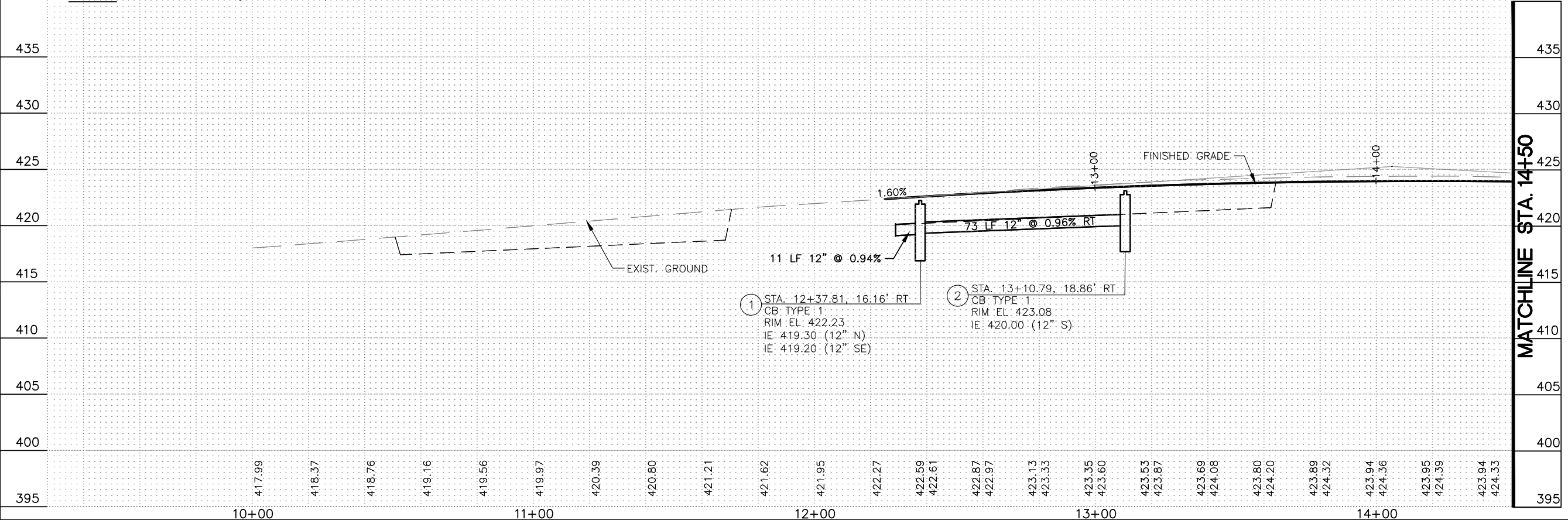
NE SE

GENERAL NOTES

- REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
- DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.

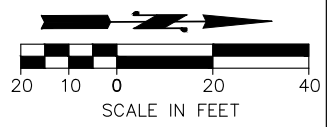


MATCHLINE STA. 14+50
SEE SHT 25



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



MERIDAN
W.S.L.G.N.Z.

N.G.V.D. 88



Know what's below.
Call before you dig.

SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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03/03/22

FED. AID No. _____

PROJECT No. 1131235

MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES

JOHN TAYLOR, DIRECTOR

**S 360th ST AND MILITARY RD S
ROUNDBOUT**

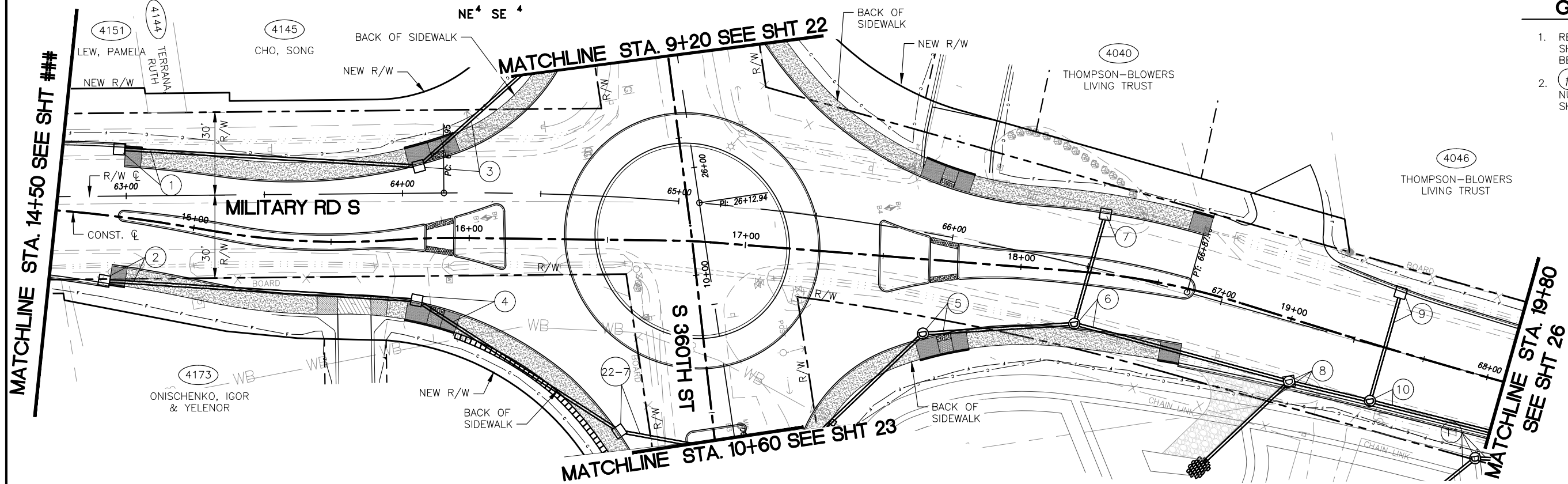
MILITARY RD S STORM DRAINAGE
PLAN AND PROFILE 1

SHEET
24
OF
60
SHEETS

320-93 (24)

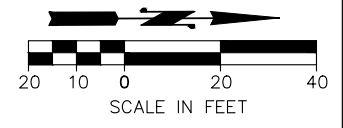
SEC. 27, T.21 N., R.4 E., W.M.

NE 4 SE 4



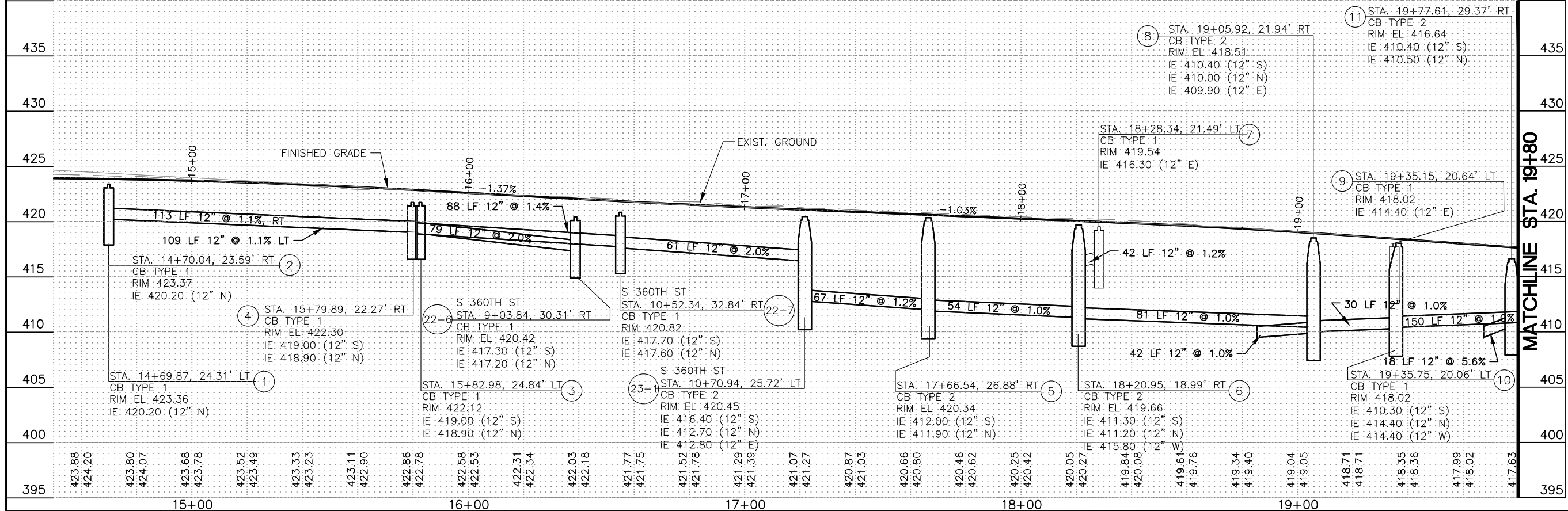
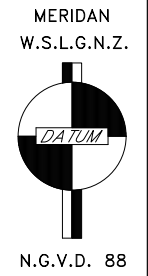
GENERAL NOTES

- REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
- DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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03/03/22

FED. AID No.	-
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAUT**
MILITARY RD S STORM DRAINAGE
PLAN AND PROFILE 2

SHEET
25
OF
60
SHEETS

320-93 (25)

Know what's below.
Call before you dig.



SEC. 27, T.21 N., R.4 E., W.M.

NE SE

GENERAL NOTES

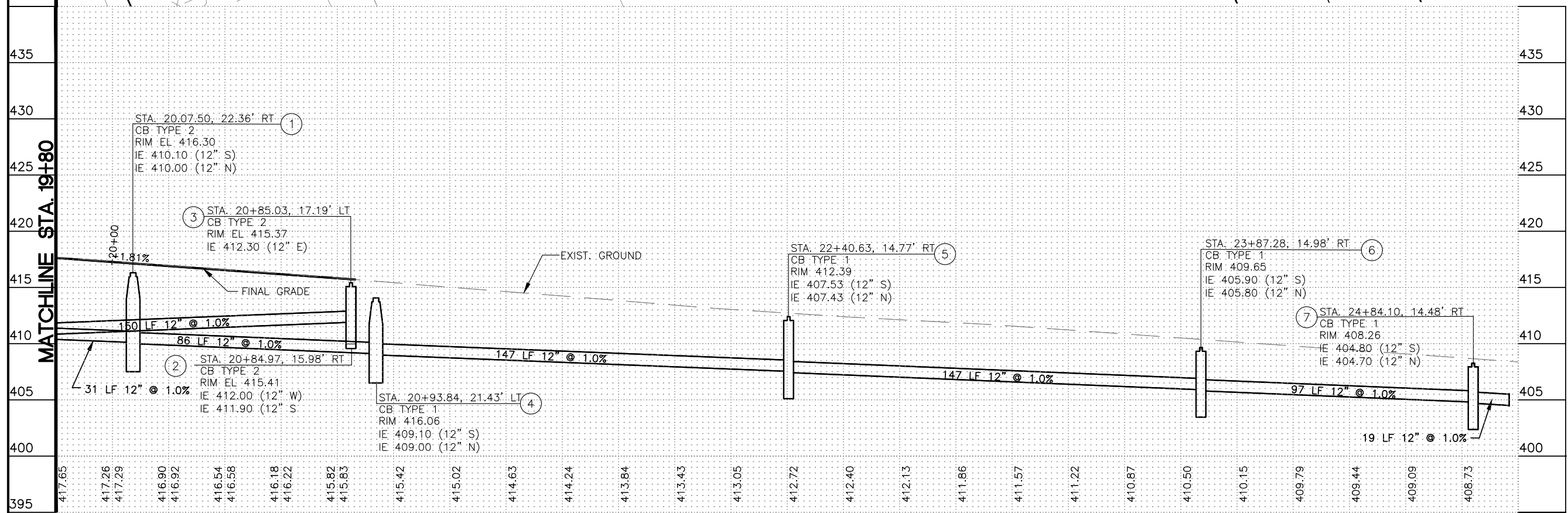
- REFER TO SITE PREPARATION PLAN SHEETS 7-10 FOR EXIST. TREES TO BE REMOVED OR PROTECTED.
- # DESIGNATED STRUCTURE NOTE NUMBER. SEE STRUCTURE NOTES SHEET 32.

MATCHLINE STA. 19+80 SEE SHT 25

MATCHLINE STA. 19+80

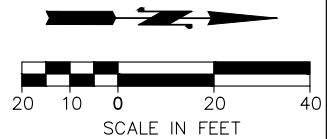
END PROJECT
 STA. 25+25.00
 N: 105872.03
 E: 1282832.35

MILITARY RD S



HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
 BASED UPON KING COUNTY
 SURVEY CONTROL.

VERTICAL DATUM:
 NAVD 1988 BASED UPON KING
 COUNTY SURVEY CONTROL



MERIDAN
 W.S.L.G.N.Z.
 DATUM
 N.G.V.D. 88



Know what's below.
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SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

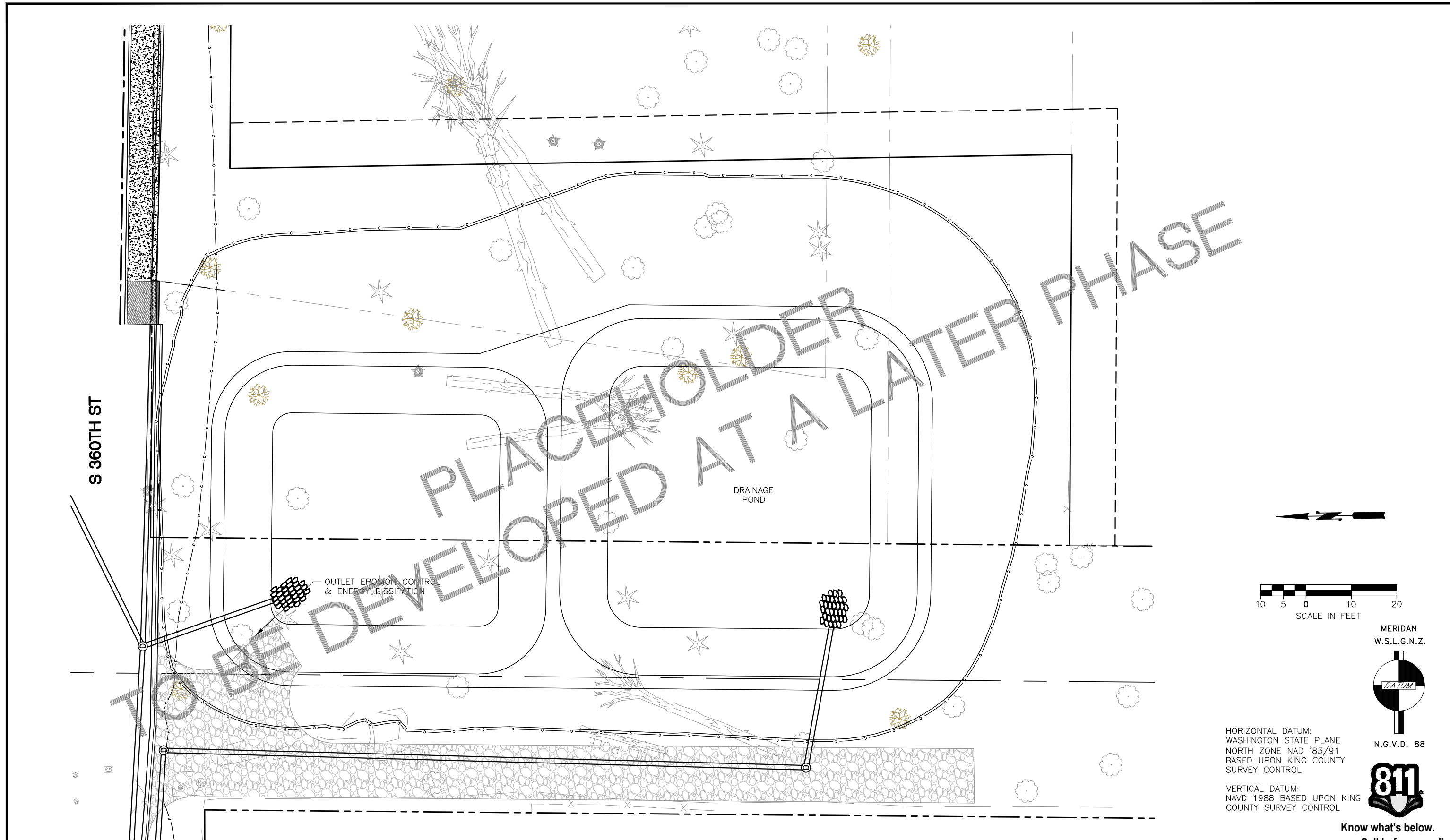
NUM.	REVISION	BY	DATE

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 PROGRESS COPY
 03/03/22**

FED. AID No. _____
 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 MILITARY RD S STORM DRAINAGE
 PLAN AND PROFILE 3

King County
 SHEET
26
 OF
60
 SHEETS
320-93 (26)



MERIDAN
 W.S.L.G.N.Z.
 DATUM
 N.G.V.D. 88
 811
 Know what's below.
 Call before you dig.

HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
 BASED UPON KING COUNTY
 SURVEY CONTROL.
 VERTICAL DATUM:
 NAVD 1988 BASED UPON KING
 COUNTY SURVEY CONTROL

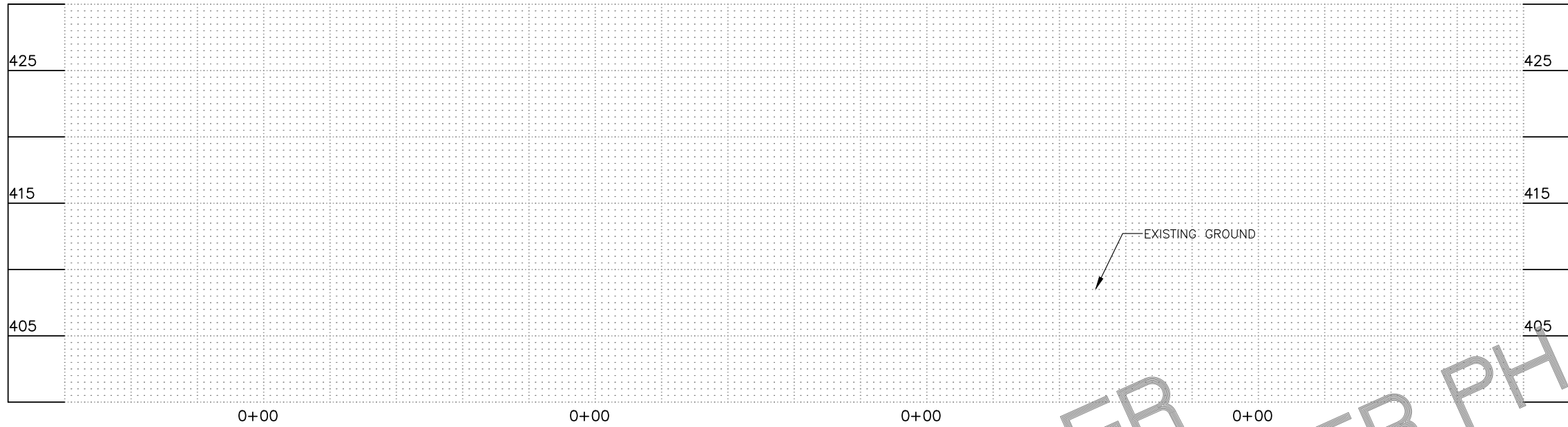
SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
NUM.	REVISION	BY	DATE		

**90% DESIGN
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 03/03/22**

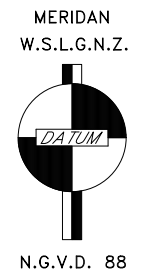
FED. AID No.	—
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 S 360TH ST STORMWATER WETLAND PLAN

SHEET
27
 OF
60
 SHEETS
320-93 (27)



TO BE DEVELOPED AT A LATER PHASE



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL




**Know what's below.
Call before you dig.**

SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
	NUM.	REVISION	BY	DATE	

90% DESIGN
PROGRESS COPY
03/03/22

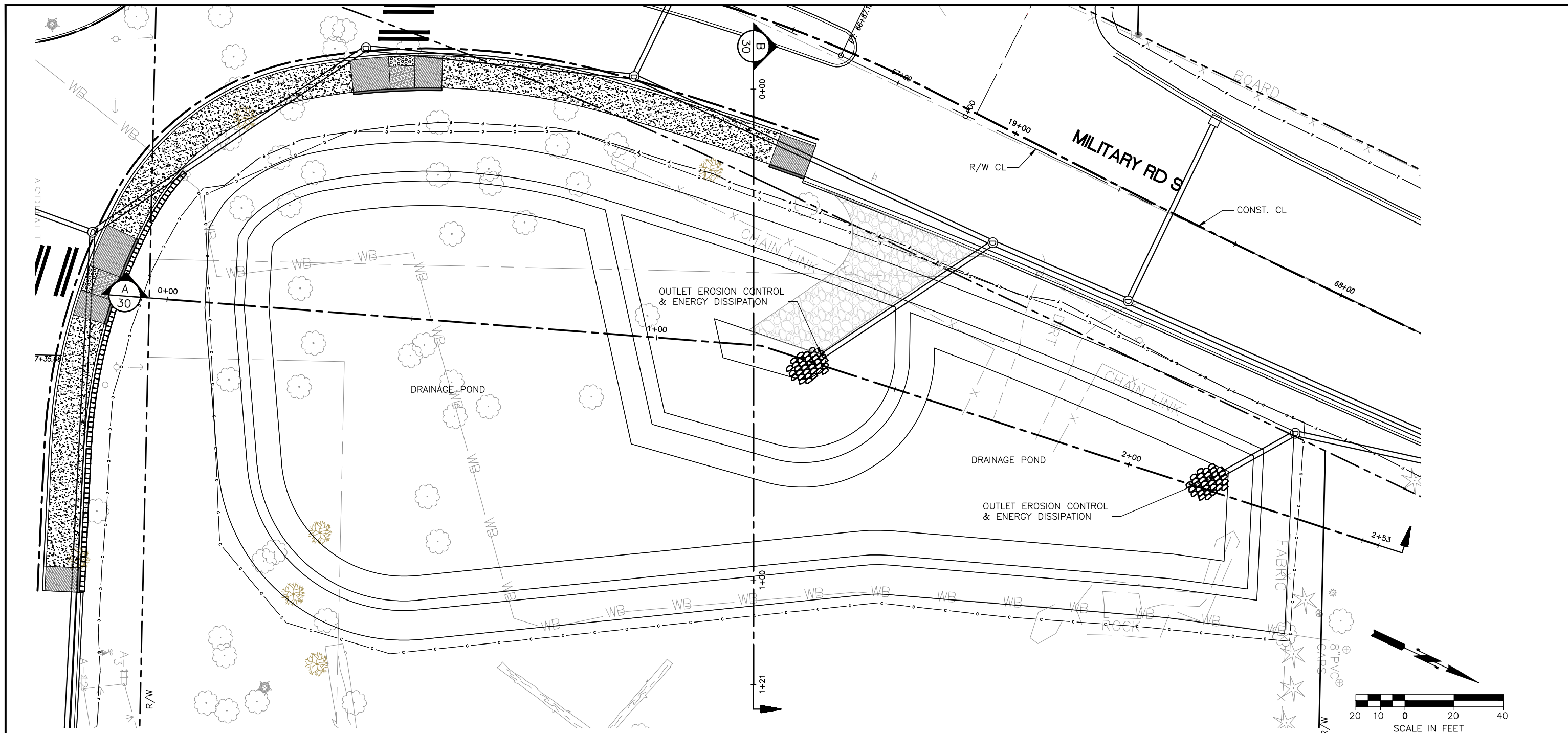
FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
S 360TH ST STORMWATER WETLAND PROFILES



320-93 (28)

SHEET
28
OF
60
SHEETS

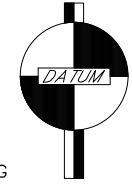


CONSTRUCTION NOTES

MERIDAN
W.S.L.G.N.Z.

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



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CHECKED:	T. CRAY	05/2019
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DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE


**90% DESIGN
PROGRESS COPY
03/03/22**

FED. AID No. _____

PROJECT No. 1131235

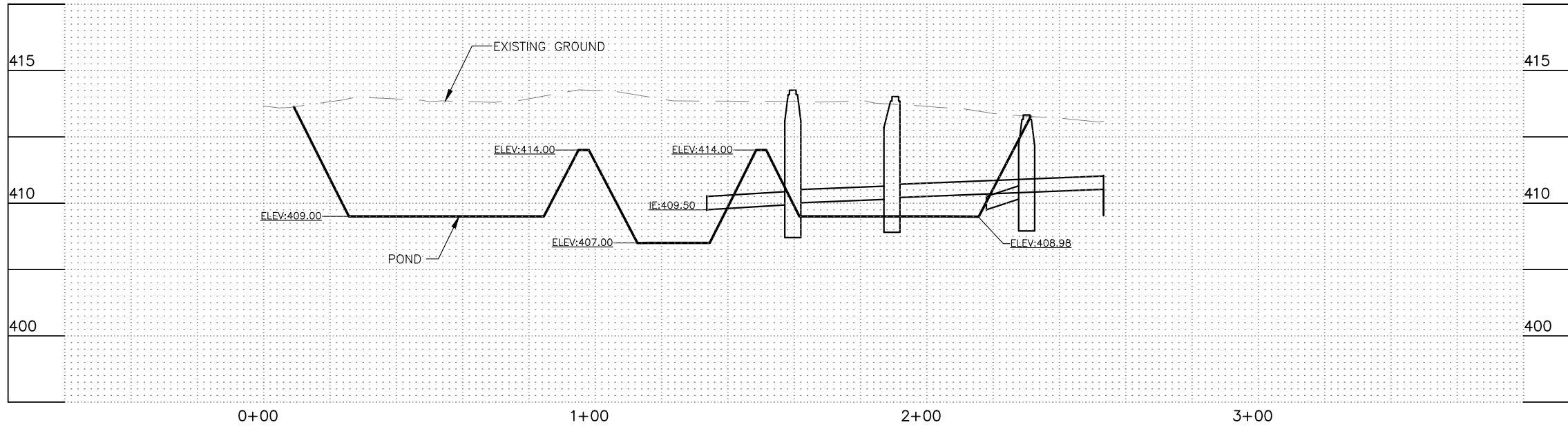
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAUT**
MILITARY RD S STORMWATER WETLAND PLAN



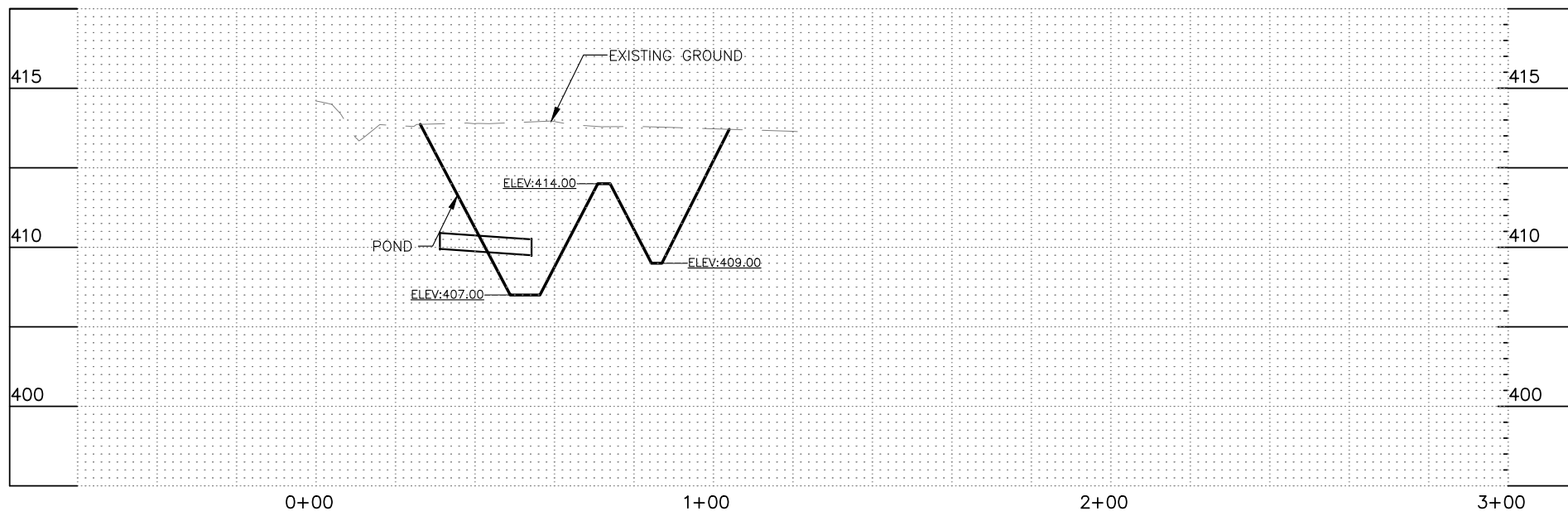
SHEET
29
OF
60
SHEETS

320-93 (29)



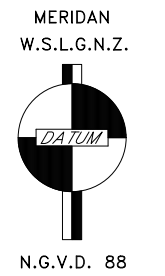
DRAINAGE POND PROFILE

A
29



DRAINAGE POND PROFILE

B
29



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



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CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

**90% DESIGN
PROGRESS COPY
03/03/22**

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAUT**
MILITARY RD S STORMWATER WETLAND PROFILES



SHEET
30
OF
60
SHEETS

320-93 (30)

TO BE UPDATED



Know what's below.
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	NUM.	REVISION
	BY	DATE

90% DESIGN
PROGRESS COPY
03/03/22

FED. AID No.	-
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
STORMWATER WETLAND DETAILS



320-93

SHEET
31
OF
60
SHEETS
(31)

SEC. 27, T.21 N., R.4 E., W.M.

PROJECT LIMITS
 STA. 2+88.50
 N: 105109.30
 E: 1281798.36

END PROJECT
 STA. 25+25.00
 N: 105872.03
 E: 1282832.35

MATCHLINE STA. 5+74.5

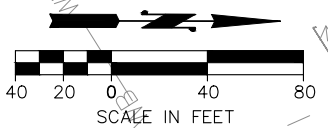
MATCHLINE STA. 22+73.95

MATCHLINE STA. 22+73.95

BEGIN PROJECT
 STA. 10+42.50
 N: 104473.65
 E: 1282377.46

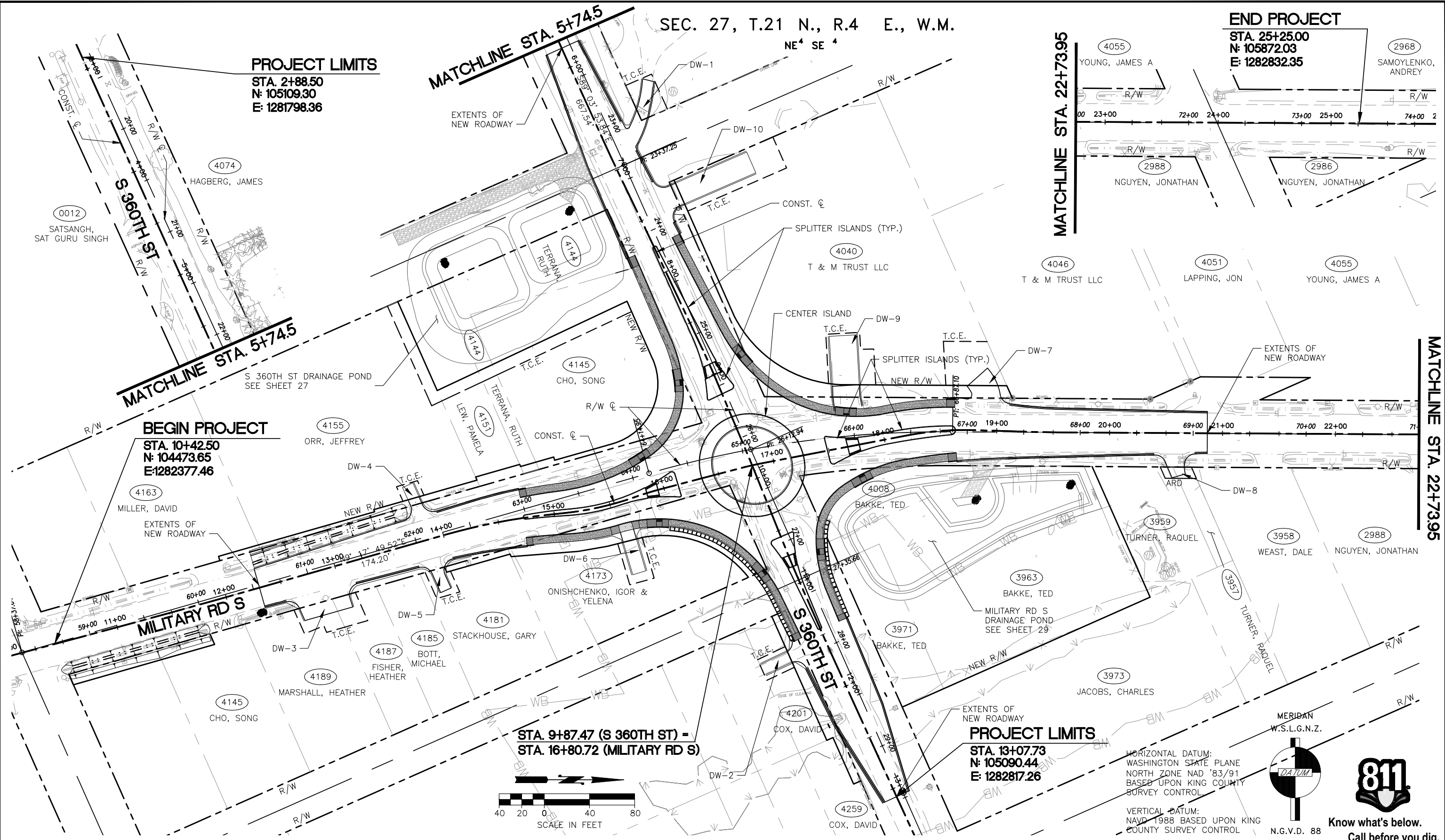
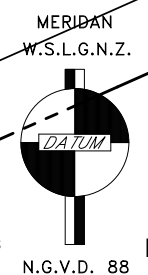
PROJECT LIMITS
 STA. 13+07.73
 N: 105090.44
 E: 1282817.26

**STA. 9+87.47 (S 360TH ST) -
 STA. 16+80.72 (MILITARY RD S)**



HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
 BASED UPON KING COUNTY
 SURVEY CONTROL

VERTICAL DATUM:
 NAVD 1988 BASED UPON KING
 COUNTY SURVEY CONTROL



SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

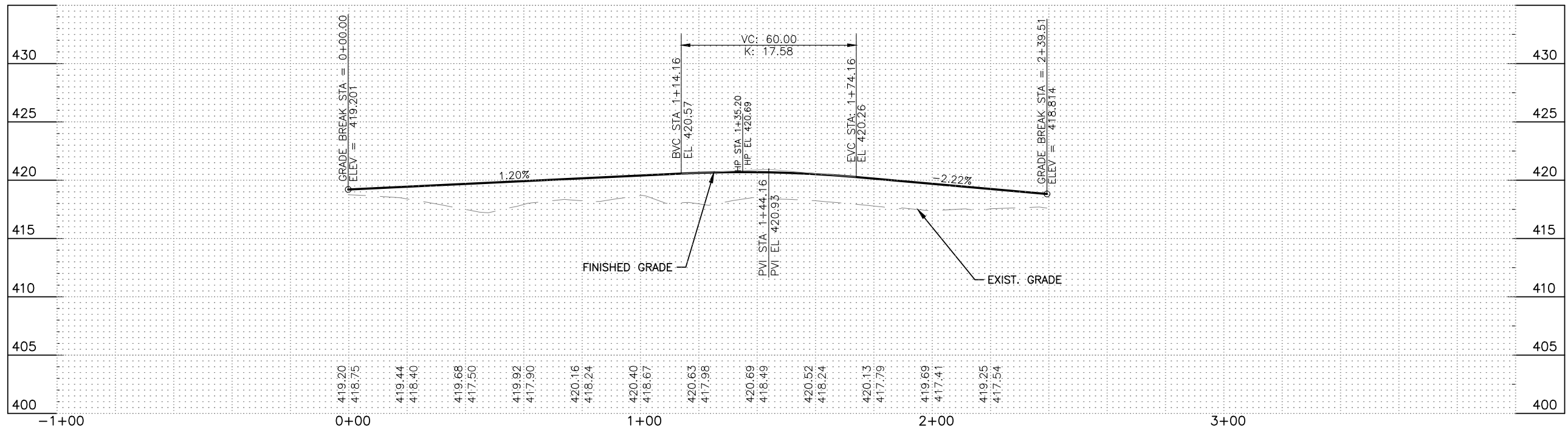
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 OVERVIEW

811
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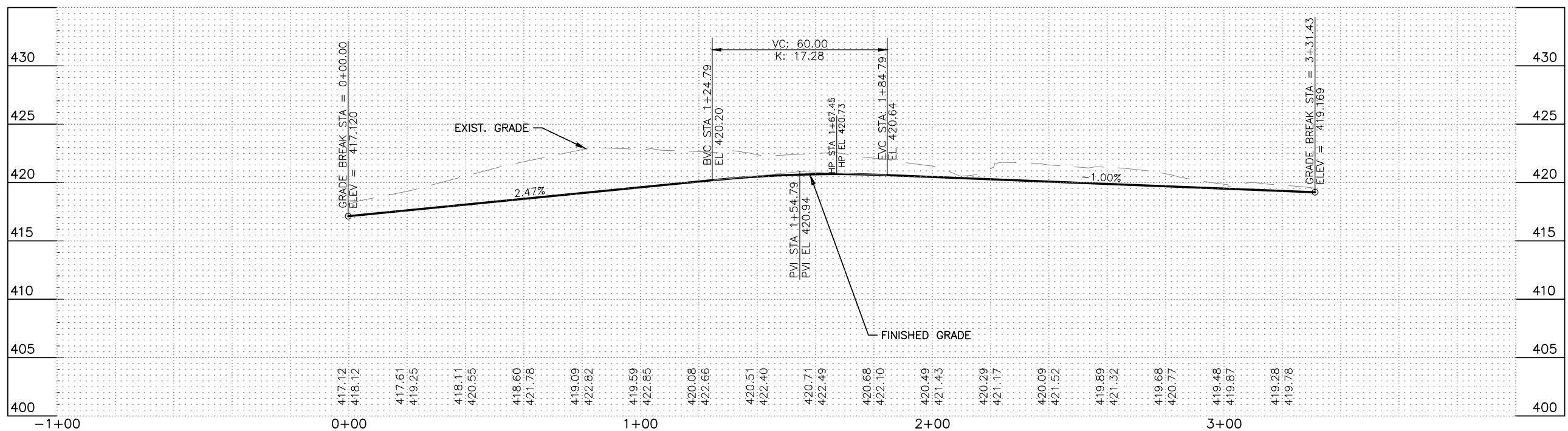
King County

SHEET
33
 OF
60
 SHEETS

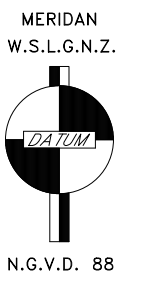
320-93 (33)



PROFILE - NE CURBLINE



PROFILE - NW CURBLINE



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SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

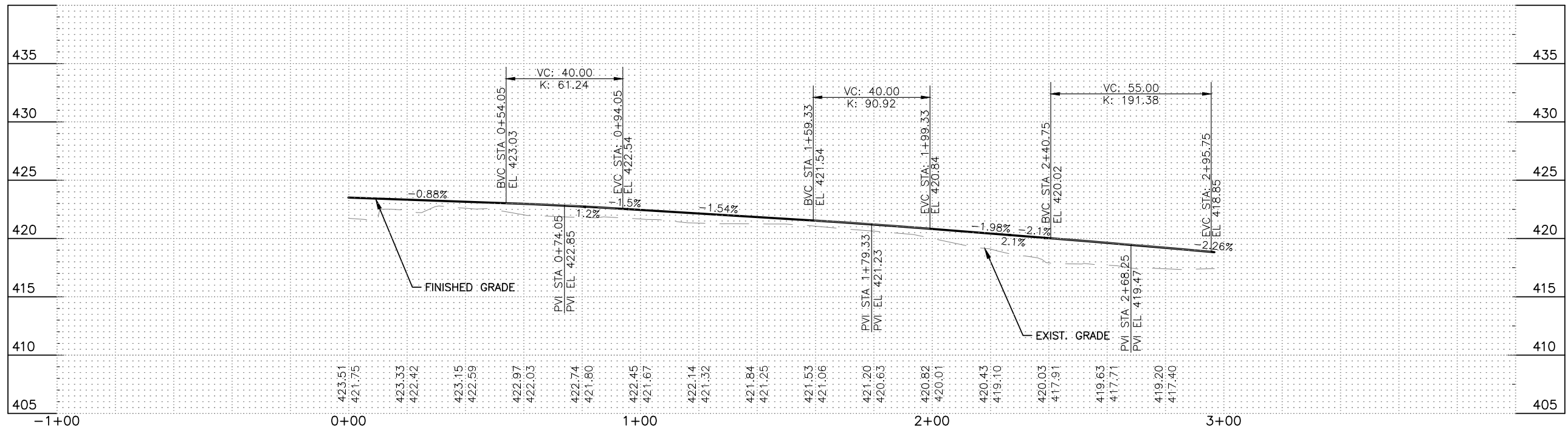
NUM.	REVISION	BY	DATE

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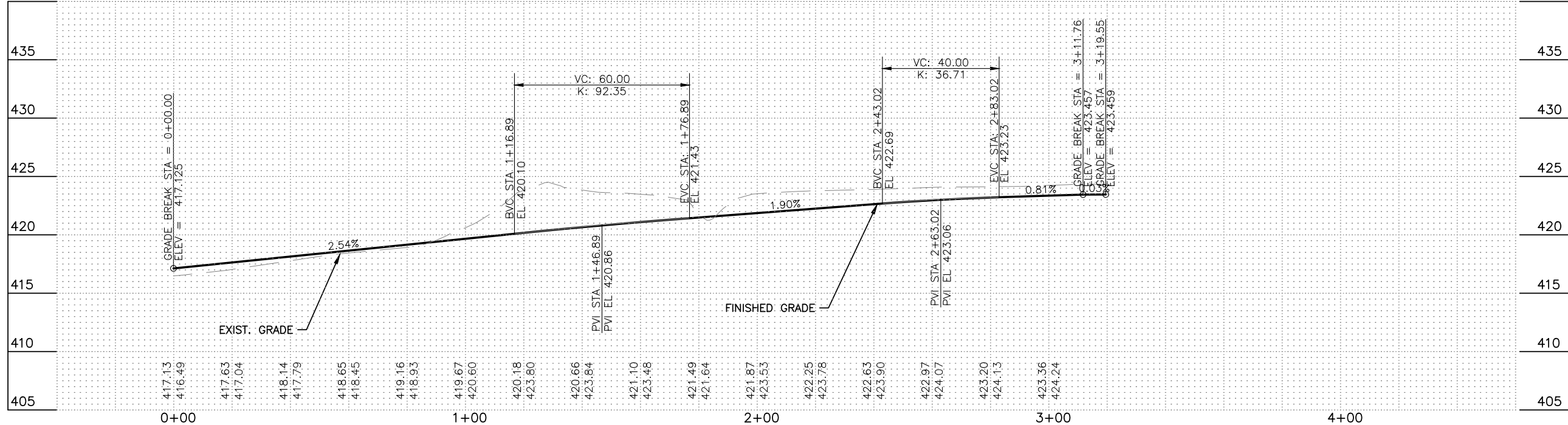
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PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
CURB PROFILES 1

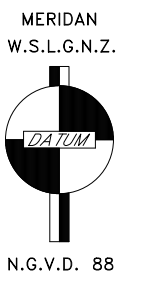
King County
SHEET **34**
OF **60**
SHEETS
320-93 (34)



PROFILE - SE CURBLINE



PROFILE - SW CURBLINE



SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22


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KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 CURB PROFILES 2

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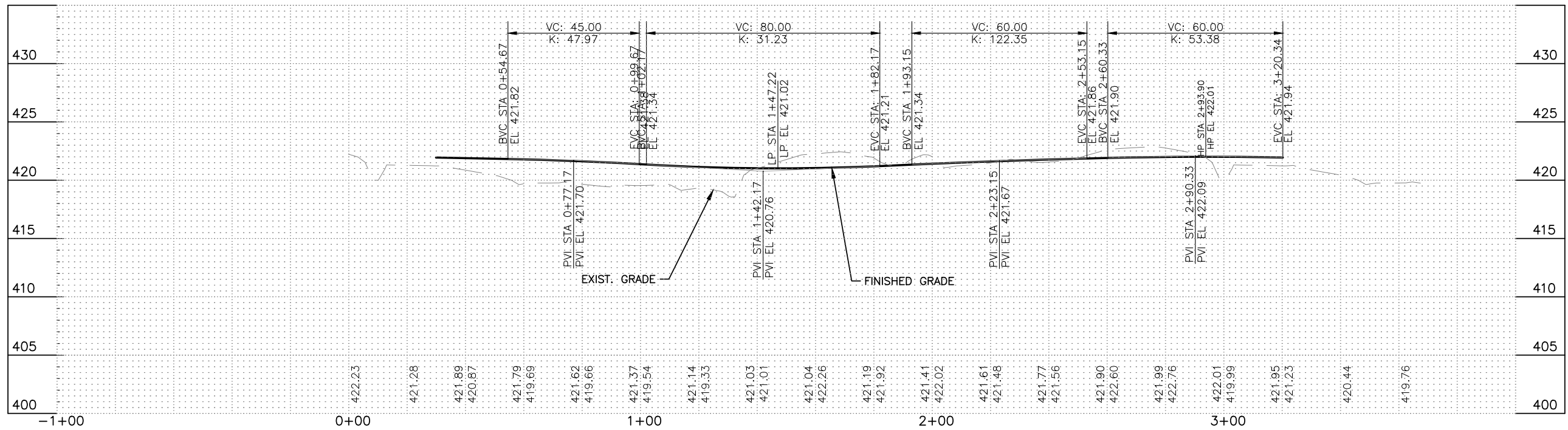


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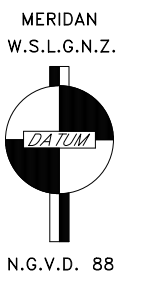
King County

SHEET **35**
 OF
60
 SHEETS

320-93 (35)



PROFILE - TRUCK APRON



SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
	NUM.	REVISION	BY	DATE	

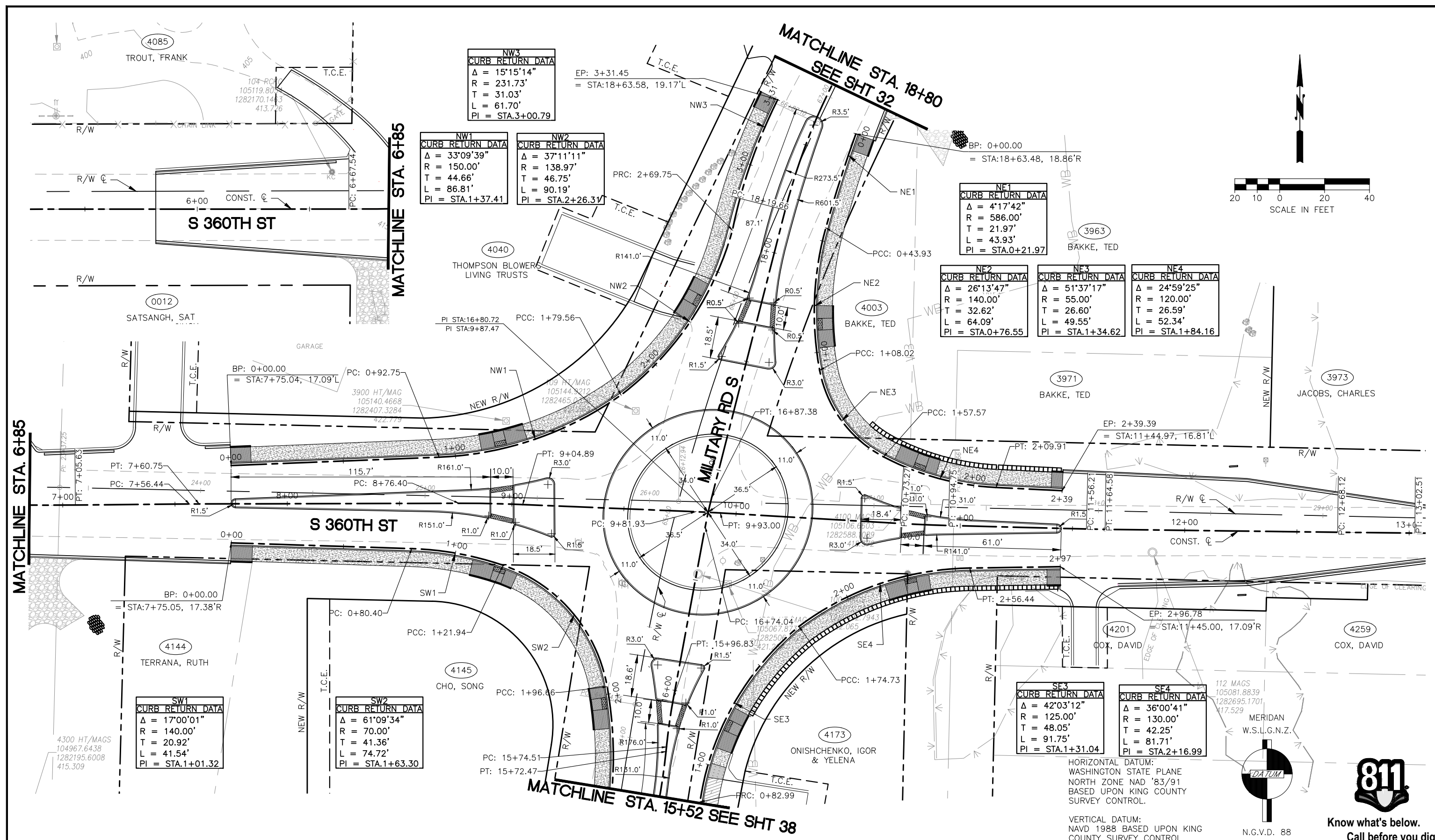
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 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 TRUCK APRON PROFILE

811
 Know what's below.
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SHEET **36**
 OF **60**
 SHEETS
320-93 (36)



NW3 CURB RETURN DATA

$\Delta = 15'15'14''$
 $R = 231.73'$
 $T = 31.03'$
 $L = 61.70'$
 $PI = STA.3+00.79$

NW1 CURB RETURN DATA

$\Delta = 33'09'39''$
 $R = 150.00'$
 $T = 44.66'$
 $L = 86.81'$
 $PI = STA.1+37.41$

NW2 CURB RETURN DATA

$\Delta = 37'11'11''$
 $R = 138.97'$
 $T = 46.75'$
 $L = 90.19'$
 $PI = STA.2+26.31$

NE1 CURB RETURN DATA

$\Delta = 4'17'42''$
 $R = 586.00'$
 $T = 21.97'$
 $L = 43.93'$
 $PI = STA.0+21.97$

NE2 CURB RETURN DATA

$\Delta = 26'13'47''$
 $R = 140.00'$
 $T = 32.62'$
 $L = 64.09'$
 $PI = STA.0+76.55$

NE3 CURB RETURN DATA

$\Delta = 51'37'17''$
 $R = 55.00'$
 $T = 26.60'$
 $L = 49.55'$
 $PI = STA.1+34.62$

NE4 CURB RETURN DATA

$\Delta = 24'59'25''$
 $R = 120.00'$
 $T = 26.59'$
 $L = 52.34'$
 $PI = STA.1+84.16$

SW1 CURB RETURN DATA

$\Delta = 17'00'01''$
 $R = 140.00'$
 $T = 20.92'$
 $L = 41.54'$
 $PI = STA.1+01.32$

SW2 CURB RETURN DATA

$\Delta = 61'09'34''$
 $R = 70.00'$
 $T = 41.36'$
 $L = 74.72'$
 $PI = STA.1+63.30$

SE3 CURB RETURN DATA

$\Delta = 42'03'12''$
 $R = 125.00'$
 $T = 48.05'$
 $L = 91.75'$
 $PI = STA.1+31.04$

SE4 CURB RETURN DATA

$\Delta = 36'00'41''$
 $R = 130.00'$
 $T = 42.25'$
 $L = 81.71'$
 $PI = STA.2+16.99$

HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
 BASED UPON KING COUNTY
 SURVEY CONTROL.

VERTICAL DATUM:
 NAVD 1988 BASED UPON KING
 COUNTY SURVEY CONTROL

N.G.V.D. 88

SURVEY JOB NO:	17042	05/2019
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NUM.	REVISION	BY	DATE

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 PROJECT No. 1131235
 MAINTENANCE DIVISION No. 4

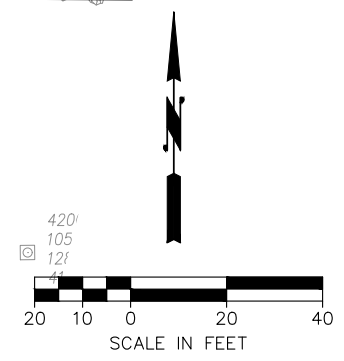
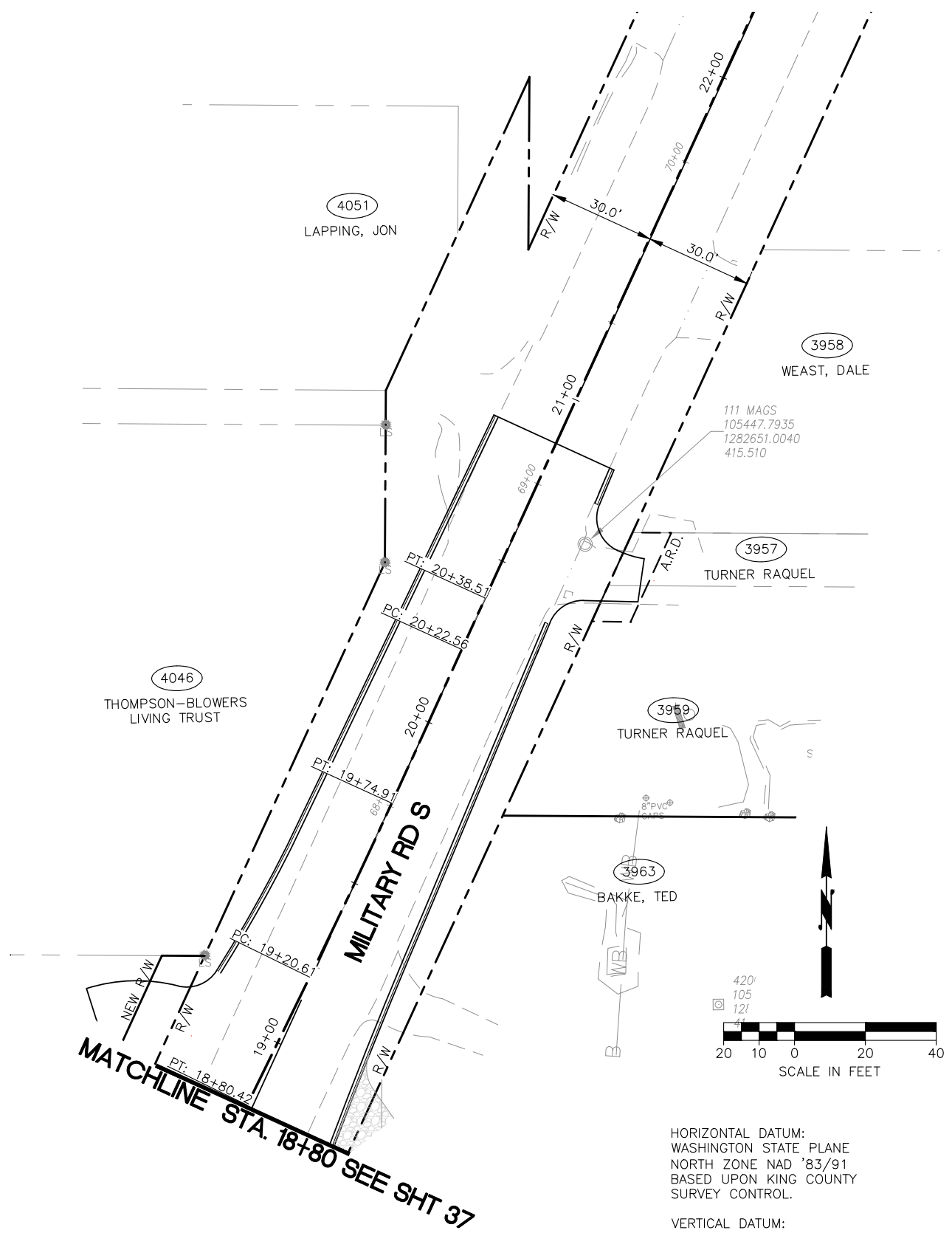
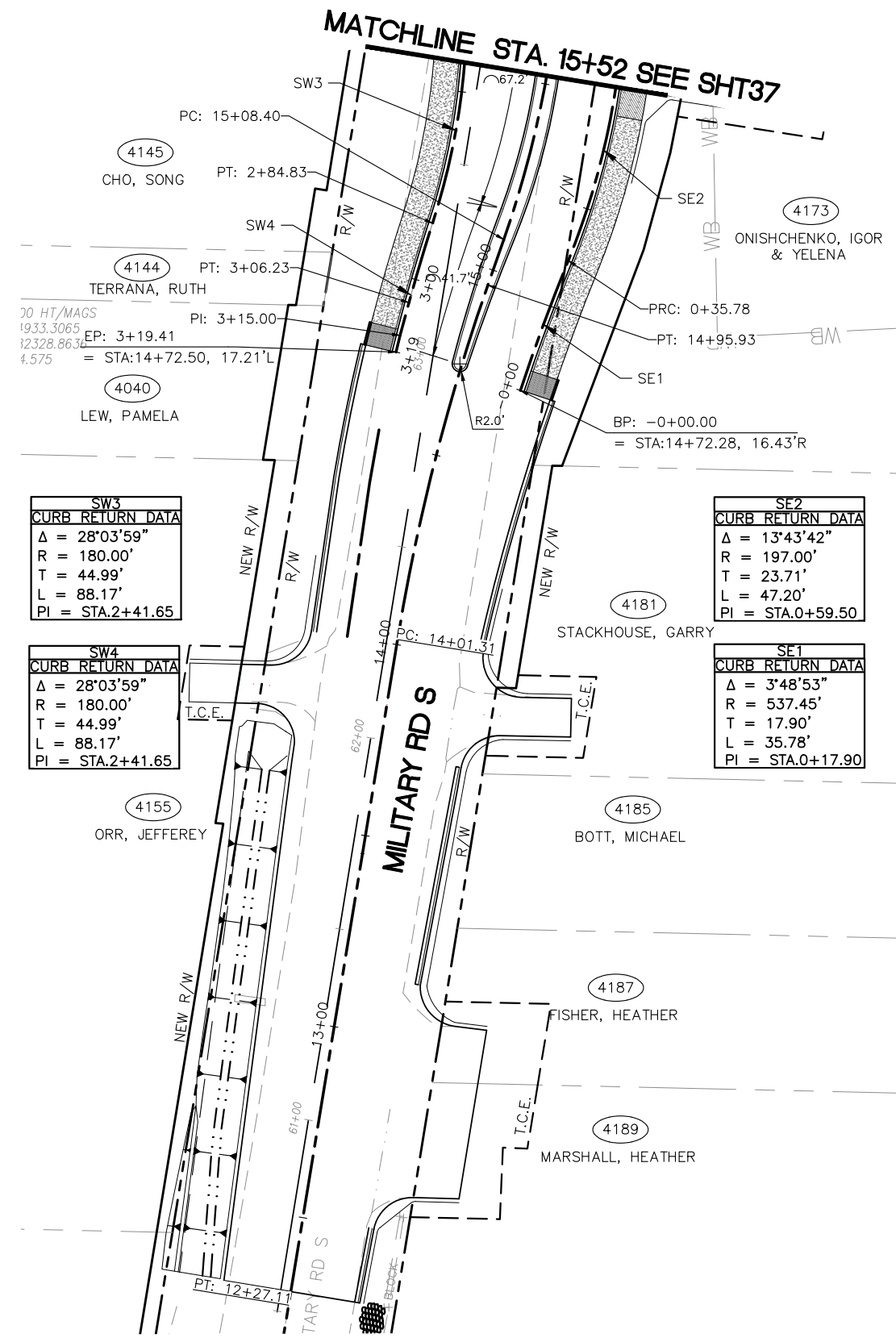
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 HORIZONTAL ALIGNMENT PLAN 1

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King County

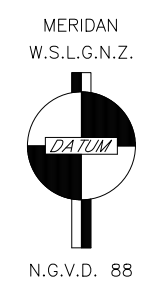
SHEET **37**
 OF **60**
 SHEETS

320-93 (37)



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



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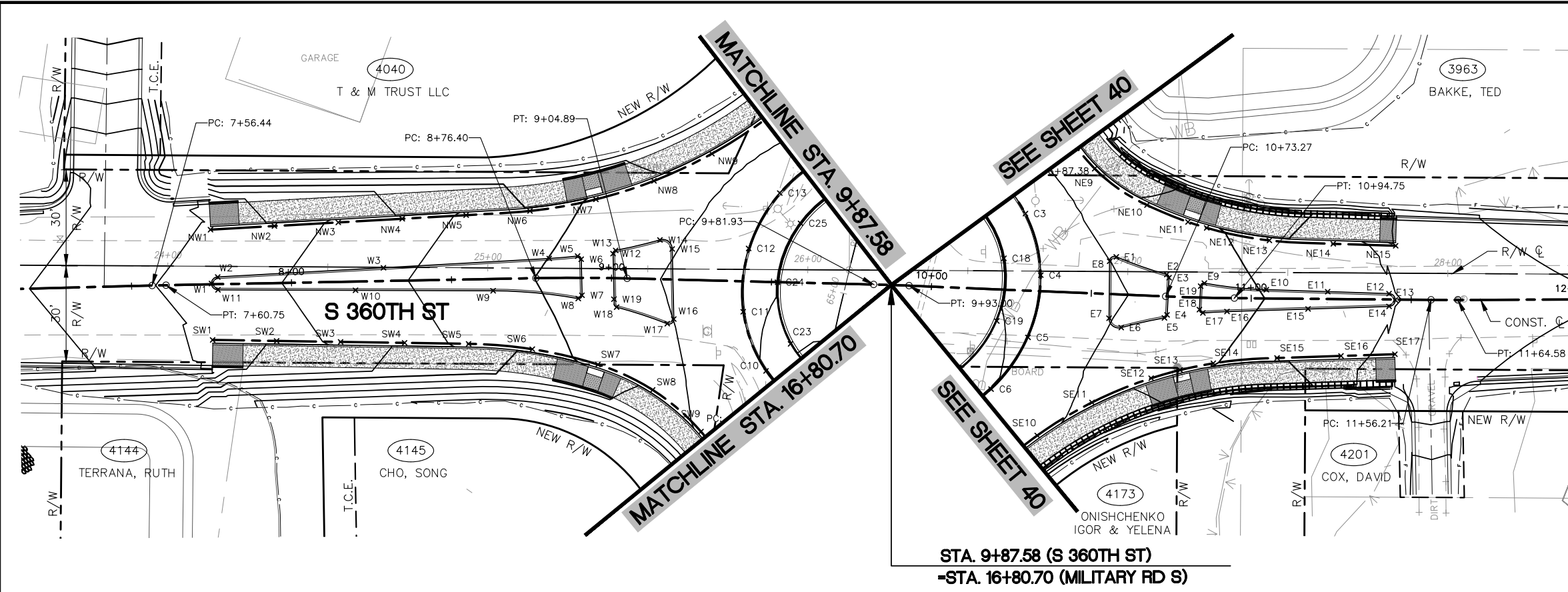
PROJECT No. 1131235

MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
HORIZONTAL ALIGNMENT PLAN 2

SHEET
38
OF
60
SHEETS

320-93 (38)



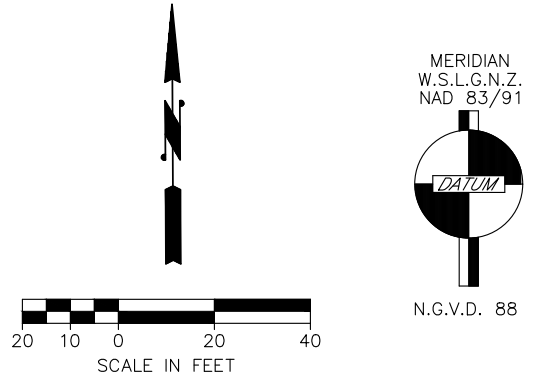
CURBLINES					
POINT	NORTHING	EASTING	ELEV.	STATION	COMMENTS
NE10	105123.41	1282577.48	420.52'	10+66.23	360TH ST CONST CL
NE11	105117.92	1282590.22	420.27'	10+79.49	360TH ST CONST CL
NE12	105115.97	1282596.02	420.13'	10+85.59	360TH ST CONST CL
NE13	105111.71	1282615.54	419.69'	11+05.52	360TH ST CONST CL
NE14	105110.34	1282635.49	419.25'	11+25.49	360TH ST CONST CL
NE15	105109.40	1282654.98	418.71'	11+45.00	360TH ST CONST CL
NW1	105120.59	1282284.75	417.12'	7+74.99	360TH ST CONST CL
NW2	105121.39	1282304.74	417.61'	7+94.97	360TH ST CONST CL
NW3	105122.20	1282324.72	418.11'	8+14.96	360TH ST CONST CL
NW4	105123.00	1282344.71	418.60'	8+34.94	360TH ST CONST CL
NW5	105123.80	1282364.69	419.09'	8+54.93	360TH ST CONST CL
NW6	105124.77	1282384.66	419.59'	8+74.91	360TH ST CONST CL
NW7	105128.06	1282405.33	420.11'	8+94.88	360TH ST CONST CL
NW8	105133.53	1282423.57	420.51'	9+12.51	360TH ST CONST CL
NW9	105141.70	1282441.81	420.71'	9+30.39	360TH ST CONST CL
NW10	105152.24	1282458.79	420.68'	9+46.92	360TH ST CONST CL
SE10	105052.00	1282542.00	421.20'	10+34.98	360TH ST CONST CL
SE11	105062.03	1282559.28	420.82'	10+51.65	360TH ST CONST CL
SE12	105069.30	1282577.89	420.43'	10+69.80	360TH ST CONST CL
SE13	105071.70	1282586.95	420.24'	10+78.52	360TH ST CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
C3	105121.38	1282539.46	421.38'	10+28.40	24.0' FT	360TH ST CONST CL
C4	105102.07	1282543.94	421.46'	10+34.00	5.0' FT	360TH ST CONST CL
C5	105082.69	1282539.64	421.60'	10+30.84	14.6' FT	360TH ST CONST CL
C6	105066.73	1282527.82	421.79'	10+19.97	31.2' FT	360TH ST CONST CL
C10	105073.57	1282457.58	421.80'	9+48.97	27.8' FT	360TH ST CONST CL
C11	105092.19	1282450.77	421.59'	9+41.39	9.5' FT	360TH ST CONST CL
C12	105111.92	1282452.80	421.46'	9+42.60	10.3' FT	360TH ST CONST CL
C13	105129.07	1282462.81	421.40'	9+51.89	27.8' FT	360TH ST CONST CL
C18	105107.52	1282532.50	422.37'	10+22.25	9.8' FT	360TH ST CONST CL
C19	105087.96	1282529.95	422.54'	10+20.86	9.9' FT	360TH ST CONST CL
C23	105081.91	1282465.39	422.71'	9+56.43	19.2' FT	360TH ST CONST CL
C24	105101.24	1282461.65	422.43'	9+51.89	0.0' FT	360TH ST CONST CL
C25	105119.51	1282469.14	422.36'	9+58.62	18.6' FT	360TH ST CONST CL
E1	105107.39	1282567.63	420.94'	10+57.34	11.7' FT	360TH ST CONST CL
E2	105101.62	1282583.30	420.64'	10+73.31	6.9' FT	360TH ST CONST CL
E3	105100.59	1282584.01	420.63'	10+74.09	5.9' FT	360TH ST CONST CL
E4	105088.99	1282583.19	420.62'	10+73.94	5.8' FT	360TH ST CONST CL
E5	105088.07	1282582.35	420.63'	10+73.16	6.7' FT	360TH ST CONST CL
E6	105085.28	1282568.80	420.90'	10+59.80	10.3' FT	360TH ST CONST CL
E7	105088.26	1282565.06	421.03'	10+55.88	7.5' FT	360TH ST CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
E8	105106.05	1282565.53	421.00'	10+55.31	10.3' FT	360TH ST CONST CL
E9	105098.71	1282595.03	420.38'	10+85.28	4.5' FT	360TH ST CONST CL
E10	105096.33	1282614.34	419.95'	11+04.71	2.7' FT	360TH ST CONST CL
E11	105095.41	1282633.51	419.51'	11+23.89	2.3' FT	360TH ST CONST CL
E12	105094.49	1282652.67	419.14'	11+43.08	1.8' FT	360TH ST CONST CL
E13	105092.46	1282654.58	419.04'	11+45.03	0.1' FT	360TH ST CONST CL
E14	105090.49	1282652.61	419.13'	11+43.11	2.2' FT	360TH ST CONST CL
E15	105090.11	1282627.27	419.64'	11+17.79	3.2' FT	360TH ST CONST CL
E16	105089.74	1282601.93	420.21'	10+92.48	4.2' FT	360TH ST CONST CL
E17	105089.42	1282594.39	420.37'	10+85.01	4.8' FT	360TH ST CONST CL
E18	105090.49	1282593.32	420.42'	10+83.91	3.8' FT	360TH ST CONST CL
E19	105097.80	1282593.84	420.42'	10+84.12	3.6' FT	360TH ST CONST CL
W1	105103.75	1282284.80	417.44'	7+74.99	0.2' FT	360TH ST CONST CL
W2	105105.75	1282286.76	417.45'	7+76.95	2.2' FT	360TH ST CONST CL
W3	105107.78	1282338.60	418.73'	8+28.80	4.1' FT	360TH ST CONST CL
W4	105109.82	1282390.44	420.01'	8+80.60	6.1' FT	360TH ST CONST CL
W5	105110.42	1282399.33	420.23'	8+89.40	6.8' FT	360TH ST CONST CL
W6	105109.43	1282400.42	420.28'	8+90.50	5.8' FT	360TH ST CONST CL
W7	105098.15	1282400.49	420.31'	8+90.79	5.5' FT	360TH ST CONST CL
W8	105097.16	1282399.29	420.27'	8+89.60	6.5' FT	360TH ST CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
W9	105100.03	1282372.73	419.62'	8+62.91	3.7' FT	360TH ST CONST CL
W10	105100.89	1282329.74	418.54'	8+19.93	2.7' FT	360TH ST CONST CL
W11	105101.75	1282286.76	417.46'	7+76.94	1.8' FT	360TH ST CONST CL
W12	105111.02	1282410.41	420.51'	9+00.34	7.7' FT	360TH ST CONST CL
W13	105112.01	1282411.24	420.51'	9+01.13	8.7' FT	360TH ST CONST CL
W14	105115.04	1282425.14	420.82'	9+14.84	12.3' FT	360TH ST CONST CL
W15	105112.15	1282428.90	420.95'	9+18.72	9.5' FT	360TH ST CONST CL
W16	105090.24	1282429.04	421.01'	9+19.76	12.4' FT	360TH ST CONST CL
W17	105088.84	1282426.97	420.94'	9+17.75	13.8' FT	360TH ST CONST CL
W18	105094.28	1282411.23	420.56'	9+01.76	9.0' FT	360TH ST CONST CL
W19	105096.78	1282410.44	420.56'	9+00.87	6.6' FT	360TH ST CONST CL

CURBLINES					
POINT	NORTHING	EASTING	ELEV.	STATION	COMMENTS
SE14	105073.63	1282597.40	420.03'	10+88.54	360TH ST CONST CL
SE15	105074.96	1282617.34	419.63'	11+08.25	360TH ST CONST CL
SE16	105075.26	1282637.33	419.20'	11+28.23	360TH ST CONST CL
SE17	105075.52	1282654.17	418.70'	11+45.06	360TH ST CONST CL
SW1	105086.13	1282284.85	417.12'	7+74.99	360TH ST CONST CL
SW2	105085.49	1282304.84	417.63'	7+94.98	360TH ST CONST CL
SW3	105084.86	1282324.83	418.14'	8+14.97	360TH ST CONST CL
SW4	105084.22	1282344.82	418.65'	8+34.96	360TH ST CONST CL
SW5	105083.58	1282364.81	419.16'	8+54.95	360TH ST CONST CL
SW6	105081.59	1282384.69	419.67'	8+74.82	360TH ST CONST CL
SW7	105076.44	1282405.10	420.21'	8+96.04	360TH ST CONST CL
SW8	105068.22	1282422.09	420.66'	9+13.73	360TH ST CONST CL
SW9	105054.95	1282436.96	421.10'	9+29.13	360TH ST CONST CL
SW10	105038.02	1282447.48	421.49'	9+40.35	360TH ST CONST CL



SURVEY JOB NO:	17042	05/2019
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SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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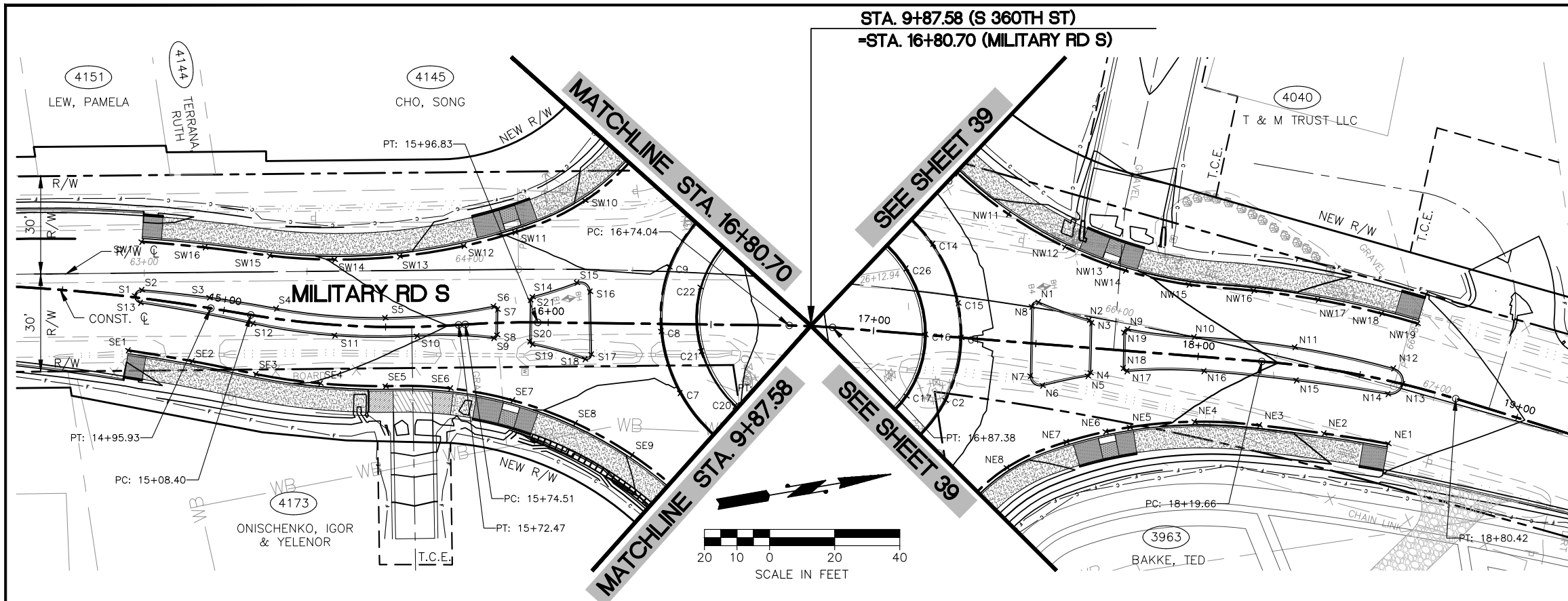
FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
GRADING PLAN 1

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Call before you dig.

King County

SHEET **39** OF **60** SHEETS
320-93 (39)



CURBLINES					
POINT	NORTHING	EASTING	ELEV.	STATION	COMMENTS
NE1	105268.39	1282563.13	419.19'	18+63.58	MILITARY RD CONST CL
NE2	105249.48	1282556.63	419.44'	18+42.09	MILITARY RD CONST CL
NE3	105230.35	1282550.80	419.68'	18+20.54	MILITARY RD CONST CL
NE4	105210.87	1282546.30	419.92'	18+00.50	MILITARY RD CONST CL
NE5	105190.97	1282544.57	420.16'	17+80.79	MILITARY RD CONST CL
NE6	105183.43	1282544.66	420.25'	17+73.51	MILITARY RD CONST CL
NE7	105171.01	1282545.69	420.40'	17+61.73	MILITARY RD CONST CL
NE8	105151.65	1282550.39	420.63'	17+44.13	MILITARY RD CONST CL
NE9	105135.05	1282561.35	420.69'	17+30.76	MILITARY RD CONST CL
NW11	105165.42	1282473.81	420.49'	17+38.51	MILITARY RD CONST CL
NW12	105180.74	1282486.63	420.29'	17+56.53	MILITARY RD CONST CL
NW13	105193.19	1282494.48	420.14'	17+70.54	MILITARY RD CONST CL
NW14	105197.85	1282496.94	420.09'	17+75.66	MILITARY RD CONST CL
NW15	105216.34	1282504.52	419.89'	17+95.45	MILITARY RD CONST CL
NW16	105235.64	1282509.74	419.68'	18+15.45	MILITARY RD CONST CL
NW17	105254.68	1282515.86	419.48'	18+34.31	MILITARY RD CONST CL
NW18	105273.21	1282523.38	419.28'	18+52.92	MILITARY RD CONST CL
NW19	105283.53	1282528.28	419.17'	18+63.58	MILITARY RD CONST CL
SE1	104891.86	1282468.92	423.51'	14+72.35	MILITARY RD CONST CL
SE2	104910.66	1282475.53	423.33'	14+92.91	MILITARY RD CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
C1	105144.67	1282508.67	421.01'	17+27.04	0.0' FT	MILITARY RD CONST CL
C2	105136.62	1282526.80	421.32'	17+23.73	19.6' FT	MILITARY RD CONST CL
C7	105056.66	1282510.69	421.98'	16+40.78	21.1' FT	MILITARY RD CONST CL
C8	105054.16	1282490.99	422.11'	16+34.73	2.2' FT	MILITARY RD CONST CL
C9	105060.02	1282472.04	422.00'	16+37.02	17.5' FT	MILITARY RD CONST CL
C14	105140.90	1282478.77	421.34'	17+15.99	28.0' FT	MILITARY RD CONST CL
C15	105145.54	1282498.08	421.29'	17+25.26	10.5' FT	MILITARY RD CONST CL
C16	105134.00	1282505.94	422.22'	17+16.02	0.0' FT	MILITARY RD CONST CL
C17	105125.00	1282523.47	422.28'	17+11.65	19.2' FT	MILITARY RD CONST CL
C20	105072.55	1282517.56	422.78'	16+57.66	25.0' FT	MILITARY RD CONST CL
C21	105065.25	1282499.18	423.02'	16+47.13	8.3' FT	MILITARY RD CONST CL
C22	105068.40	1282479.70	422.98'	16+46.67	11.5' FT	MILITARY RD CONST CL
C26	105131.57	1282484.83	422.28'	17+08.44	19.9' FT	MILITARY RD CONST CL
N1	105169.91	1282501.98	420.60'	17+49.84	12.7' FT	MILITARY RD CONST CL
N2	105184.35	1282509.99	420.47'	17+65.81	8.6' FT	MILITARY RD CONST CL
N3	105184.90	1282511.08	420.47'	17+66.61	7.6' FT	MILITARY RD CONST CL
N4	105181.98	1282526.08	420.51'	17+67.50	7.6' FT	MILITARY RD CONST CL
N5	105180.99	1282526.89	420.50'	17+66.74	8.7' FT	MILITARY RD CONST CL
N6	105166.76	1282527.41	420.64'	17+53.08	12.7' FT	MILITARY RD CONST CL
N7	105163.57	1282523.84	420.71'	17+49.11	10.0' FT	MILITARY RD CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
N8	105167.63	1282502.96	420.64'	17+47.87	11.2' FT	MILITARY RD CONST CL
N9	105195.56	1282514.79	420.36'	17+77.86	6.7' FT	MILITARY RD CONST CL
N10	105215.23	1282520.63	420.16'	17+98.37	5.9' FT	MILITARY RD CONST CL
N11	105245.15	1282529.00	419.85'	18+29.24	5.4' FT	MILITARY RD CONST CL
N12	105273.92	1282540.56	419.53'	18+59.72	4.1' FT	MILITARY RD CONST CL
N13	105275.91	1282545.84	419.56'	18+63.58	0.0' FT	MILITARY RD CONST CL
N14	105270.87	1282548.07	419.53'	18+59.79	4.0' FT	MILITARY RD CONST CL
N15	105243.81	1282539.14	419.85'	18+30.84	4.7' FT	MILITARY RD CONST CL
N16	105216.37	1282531.50	420.16'	18+02.16	4.4' FT	MILITARY RD CONST CL
N17	105193.01	1282527.50	420.39'	17+78.54	6.3' FT	MILITARY RD CONST CL
N18	105192.12	1282526.32	420.42'	17+77.38	5.3' FT	MILITARY RD CONST CL
N19	105194.22	1282515.53	420.39'	17+76.75	5.6' FT	MILITARY RD CONST CL
S1	104896.75	1282452.70	423.82'	14+72.35	0.5' FT	MILITARY RD CONST CL
S2	104899.18	1282451.33	423.77'	14+74.27	2.5' FT	MILITARY RD CONST CL
S3	104919.20	1282457.14	423.64'	14+94.99	3.2' FT	MILITARY RD CONST CL
S4	104938.90	1282463.98	423.49'	15+15.93	3.2' FT	MILITARY RD CONST CL
S5	104971.33	1282472.49	423.16'	15+49.85	2.8' FT	MILITARY RD CONST CL
S6	105004.79	1282474.69	422.66'	15+83.46	5.1' FT	MILITARY RD CONST CL
S7	105005.81	1282475.87	422.68'	15+84.60	4.1' FT	MILITARY RD CONST CL
S8	105004.37	1282483.57	422.70'	15+84.24	3.7' FT	MILITARY RD CONST CL

SPLITTER ISLAND CURBS						
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET	COMMENTS
S9	105003.10	1282484.34	422.69'	15+83.07	4.7' FT	MILITARY RD CONST CL
S10	104980.00	1282479.71	423.04'	15+59.60	2.8' FT	MILITARY RD CONST CL
S11	104955.08	1282475.25	423.31'	15+34.56	3.3' FT	MILITARY RD CONST CL
S12	104931.02	1282467.36	423.55'	15+09.51	2.5' FT	MILITARY RD CONST CL
S13	104898.04	1282455.16	423.79'	14+74.30	1.5' FT	MILITARY RD CONST CL
S14	105017.08	1282473.89	422.43'	15+95.20	7.8' FT	MILITARY RD CONST CL
S15	105031.22	1282471.90	422.13'	16+08.68	12.4' FT	MILITARY RD CONST CL
S16	105034.72	1282475.30	422.16'	16+12.75	9.7' FT	MILITARY RD CONST CL
S17	105031.85	1282494.41	422.20'	16+13.41	9.7' FT	MILITARY RD CONST CL
S18	105029.63	1282495.49	422.20'	16+11.44	11.1' FT	MILITARY RD CONST CL
S19	105014.48	1282488.29	422.49'	15+95.17	6.8' FT	MILITARY RD CONST CL
S20	105013.86	1282487.17	422.52'	15+94.36	5.8' FT	MILITARY RD CONST CL
S21	105016.20	1282474.70	422.46'	15+94.49	6.9' FT	MILITARY RD CONST CL

CURBLINES					
POINT	NORTHING	EASTING	ELEV.	STATION	COMMENTS
SE3	104929.29	1282482.81	423.15'	15+12.71	MILITARY RD CONST CL
SE4	104948.31	1282488.98	422.97'	15+31.46	MILITARY RD CONST CL
SE5	104967.85	1282493.20	422.74'	15+50.21	MILITARY RD CONST CL
SE6	104987.41	1282497.28	422.45'	15+68.88	MILITARY RD CONST CL
SE7	105005.63	1282504.15	422.15'	15+88.70	MILITARY RD CONST CL
SE8	105023.40	1282514.34	421.84'	16+08.74	MILITARY RD CONST CL
SE9	105038.90	1282526.94	421.53'	16+26.29	MILITARY RD CONST CL
SW11	105015.12	1282453.40	421.94'	15+90.16	MILITARY RD CONST CL
SW12	104998.94	1282454.87	422.25'	15+75.68	MILITARY RD CONST CL
SW13	104978.95	1282454.67	422.63'	15+54.43	MILITARY RD CONST CL
SW14	104959.10	1282452.25	422.97'	15+32.86	MILITARY RD CONST CL
SW15	104939.65	1282447.65	423.20'	15+11.36	MILITARY RD CONST CL
SW16	104920.54	1282441.76	423.36'	14+91.33	MILITARY RD CONST CL
SW17	104901.59	1282436.77	423.47'	14+72.37	MILITARY RD CONST CL



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DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

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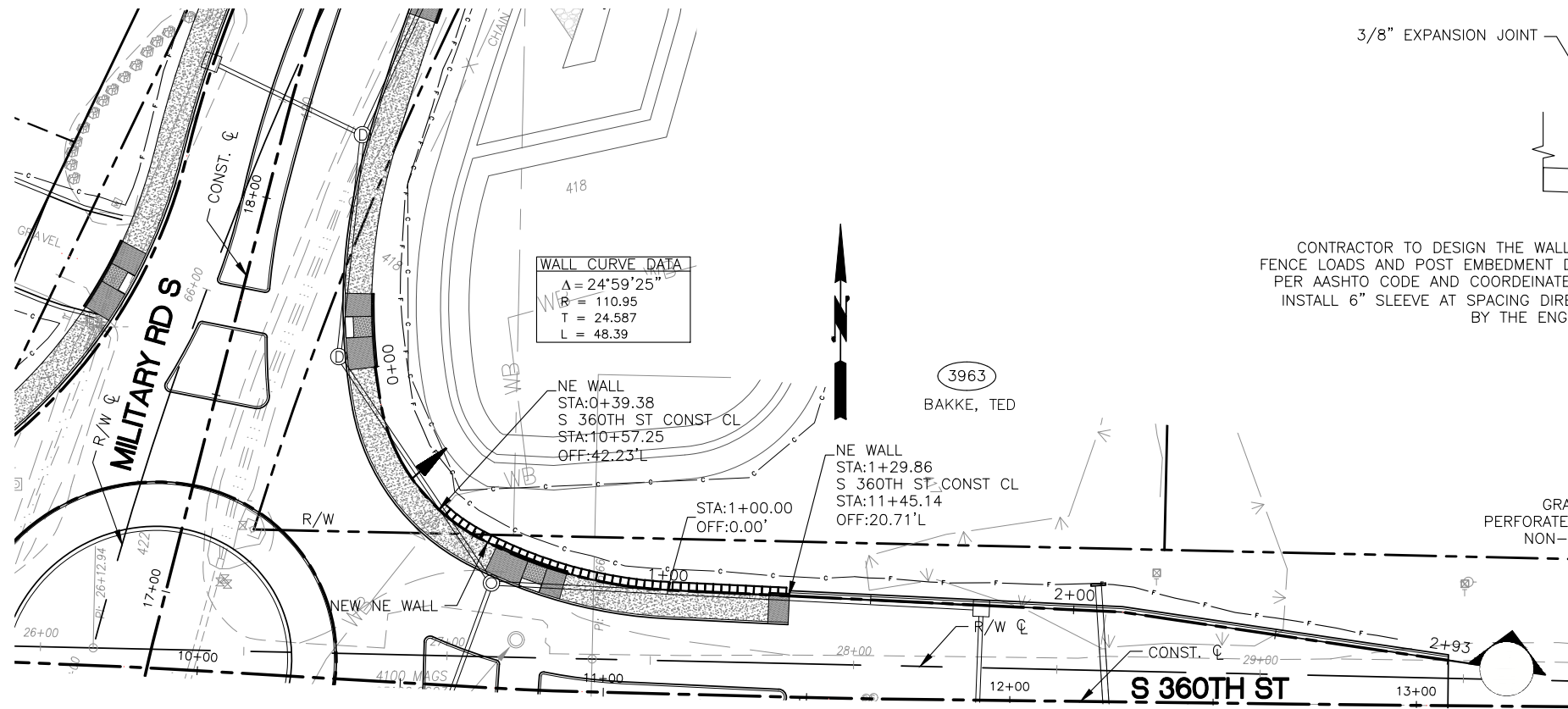
PROJECT No. 1131235

MAINTENANCE DIVISION No. 4

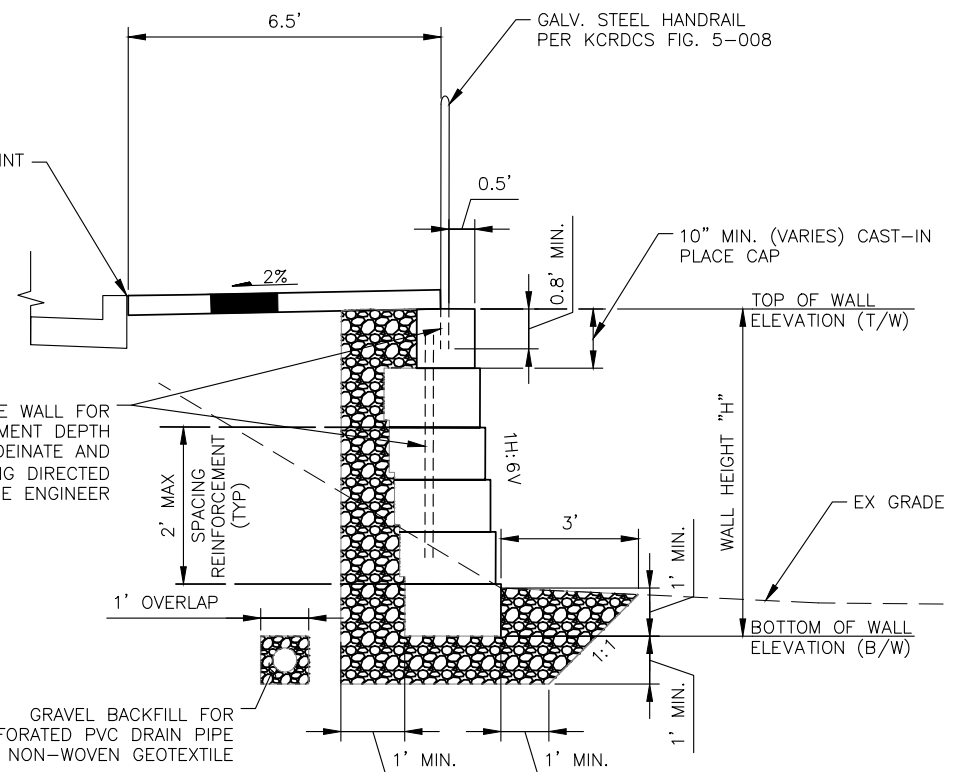
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
GRADING PLAN 2

SHEET
40
OF
60
SHEETS

320-93 (40)



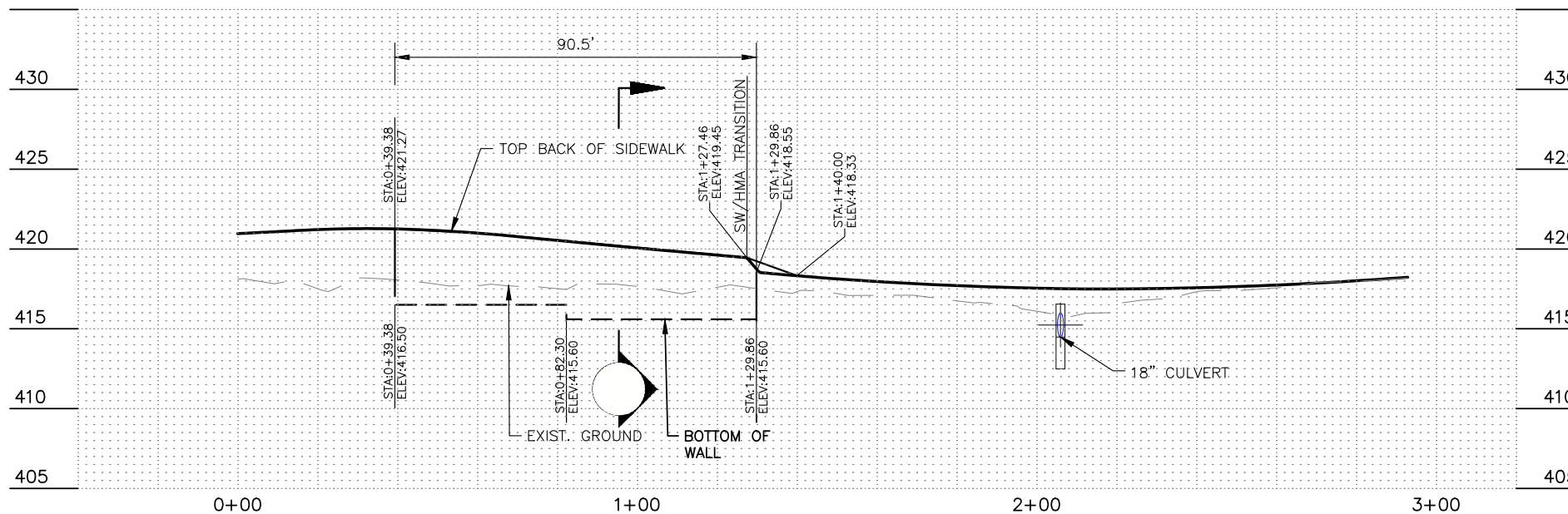
NE WALL PLAN



WALL SECTION

N.T.S.

A
41



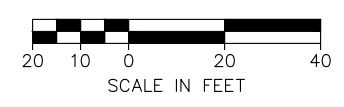
NE WALL

ALONG BACK OF SIDEWALK

1
41

WALL GENERAL NOTES

- 1 CONTRACTOR SHALL SUBMIT MATERIALS TO BE USED IN CONSTRUCTION FOR APPROVAL



MERIDIAN
W.S.L.G.N.Z.



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ROUNDAUT**

NE STRUCTURAL WALL PLAN AND PROFILE
AND WALL SECTION

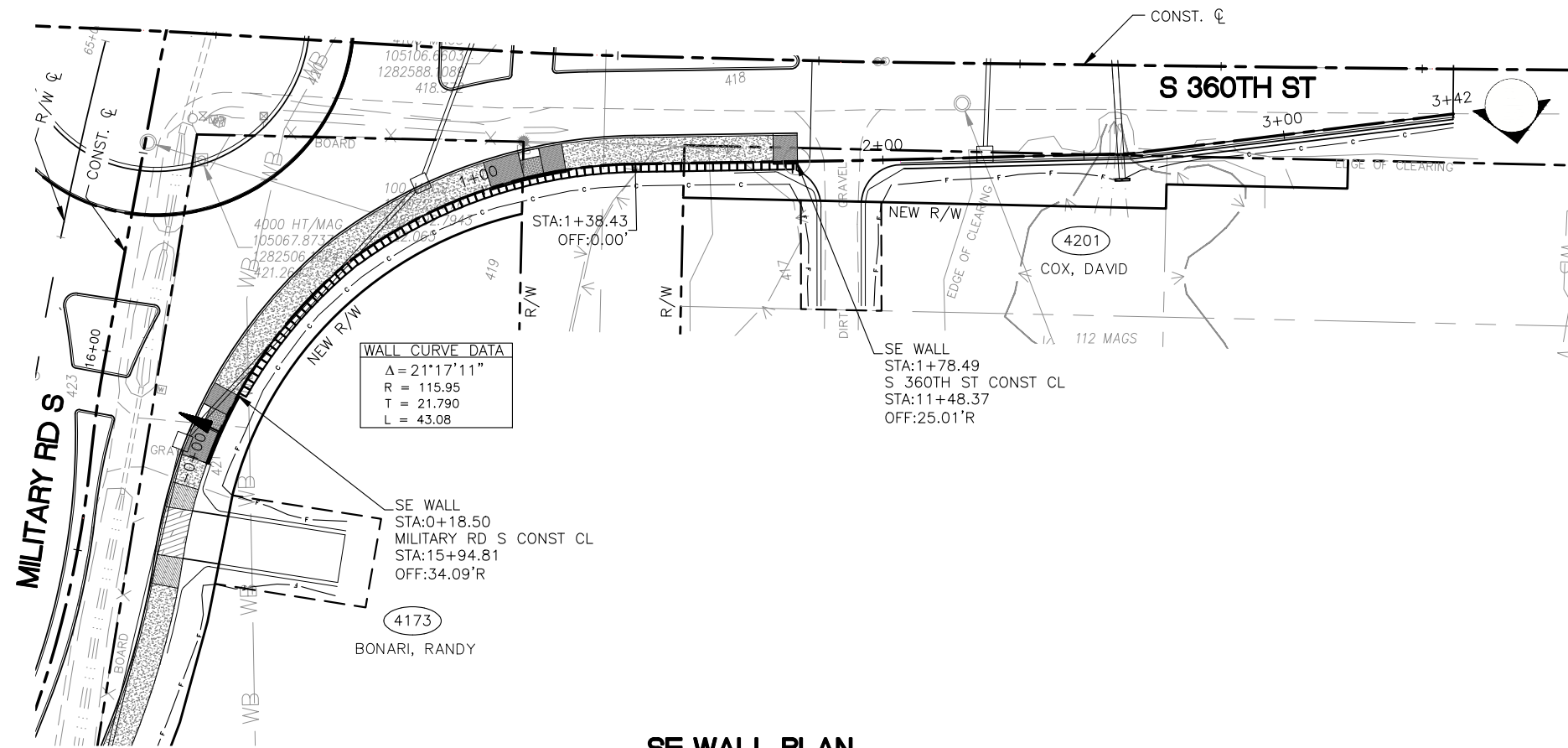
SHEET
41
OF
60
SHEETS

King County

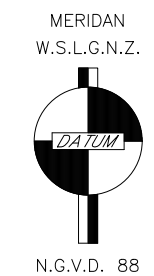
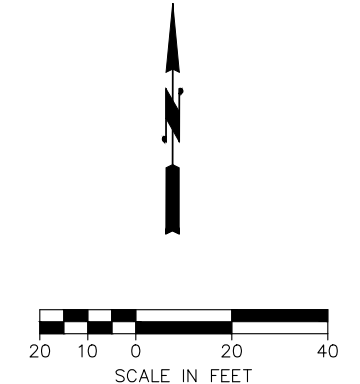
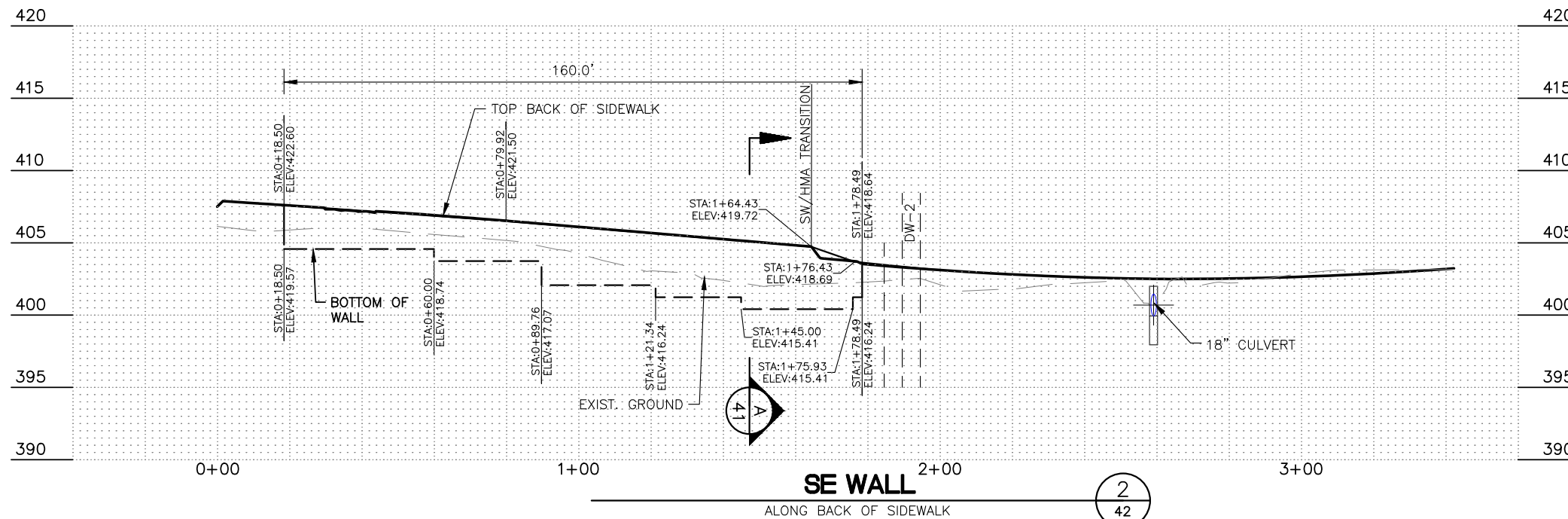
320-93 (41)

WALL GENERAL NOTES

- 1 CONTRACTOR SHALL SUBMIT MATERIALS TO BE USED IN CONSTRUCTION FOR APPROVAL



SE WALL PLAN



811
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KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAOUT**
SE STRUCTURAL WALL PLAN AND PROFILE

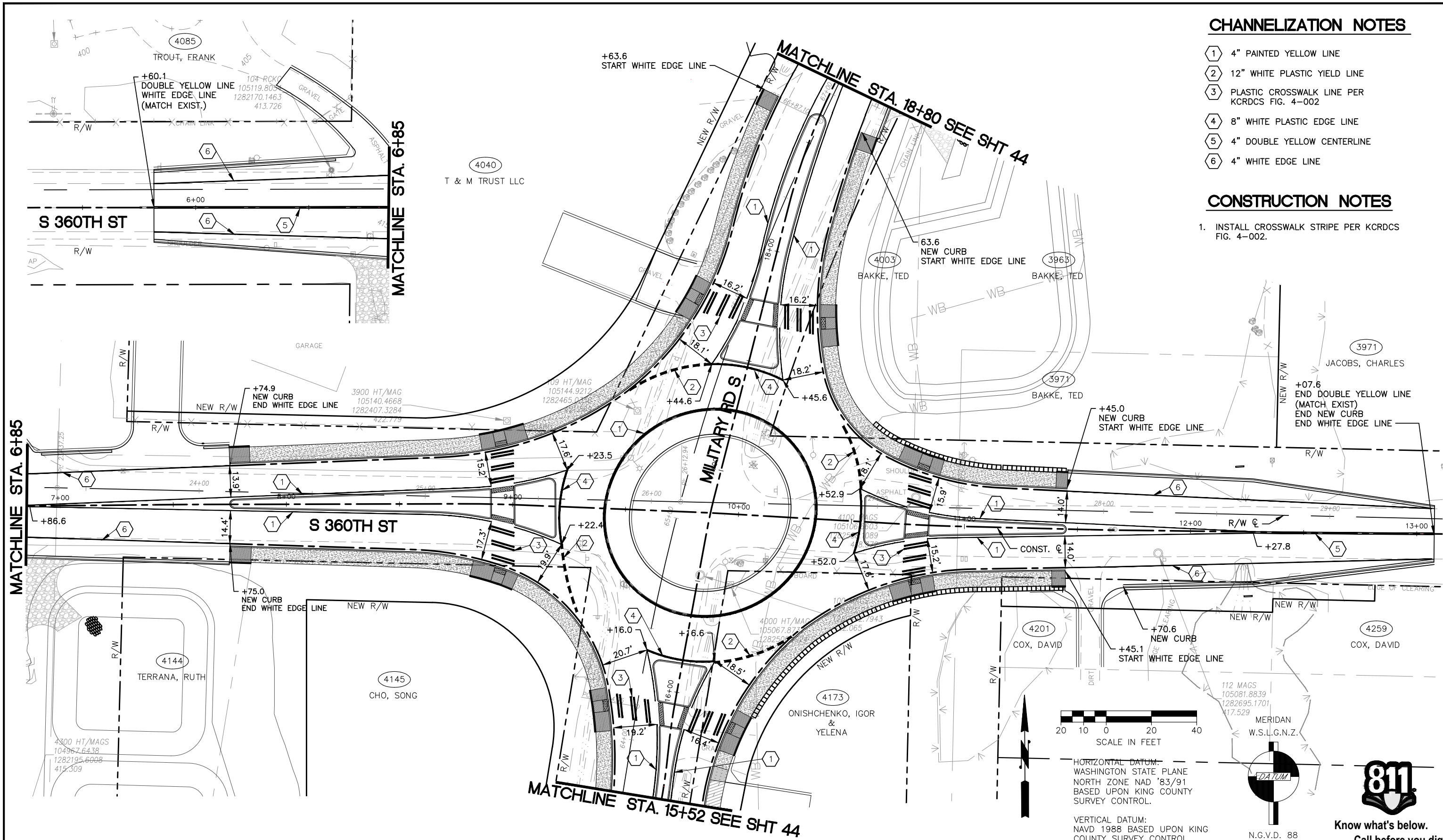
King County
SHEET **42**
OF **60**
SHEETS
320-93 (42)

CHANNELIZATION NOTES

- ① 4" PAINTED YELLOW LINE
- ② 12" WHITE PLASTIC YIELD LINE
- ③ PLASTIC CROSSWALK LINE PER KCRDCS FIG. 4-002
- ④ 8" WHITE PLASTIC EDGE LINE
- ⑤ 4" DOUBLE YELLOW CENTERLINE
- ⑥ 4" WHITE EDGE LINE

CONSTRUCTION NOTES

- 1. INSTALL CROSSWALK STRIPE PER KCRDCS FIG. 4-002.



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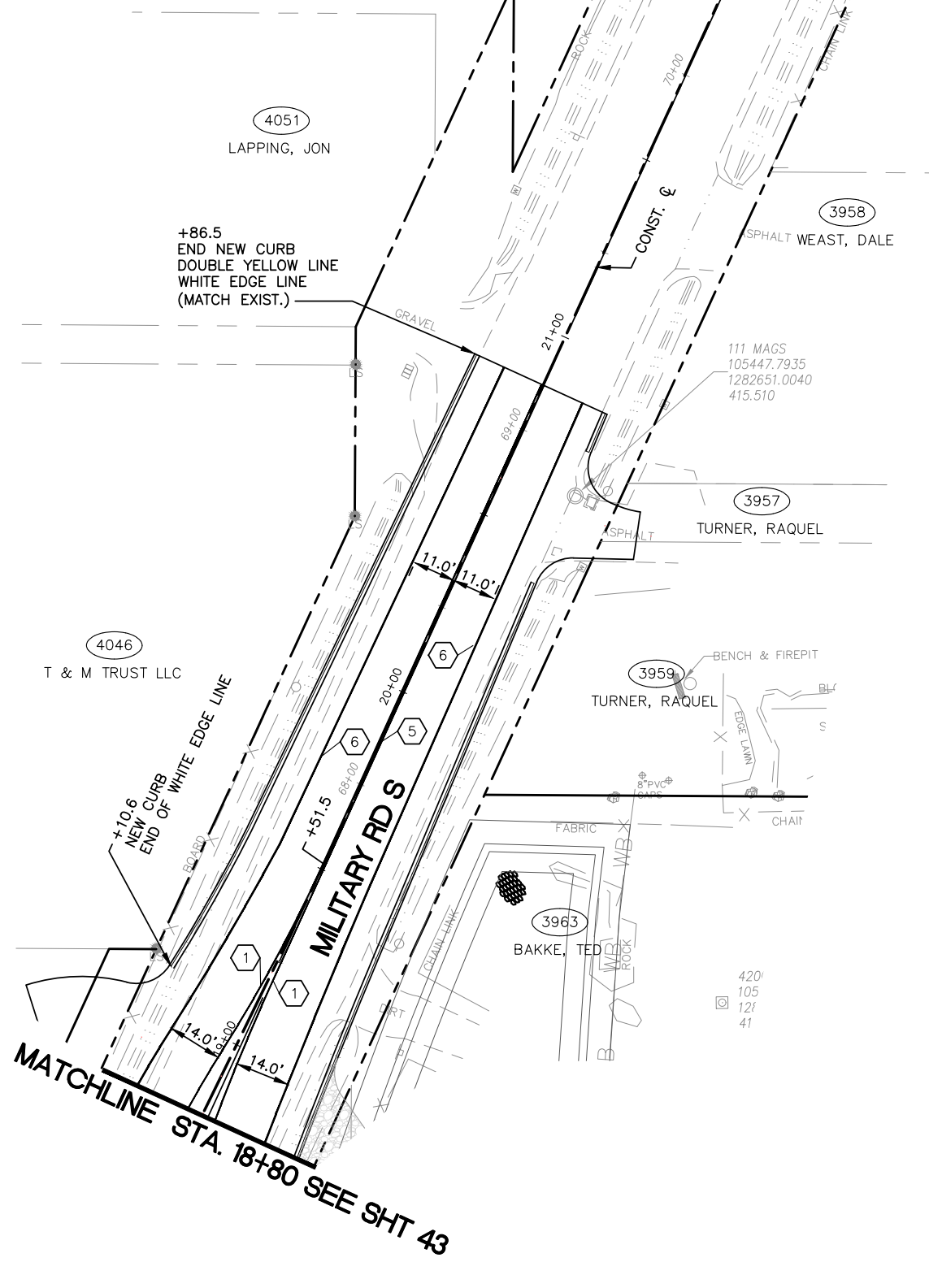
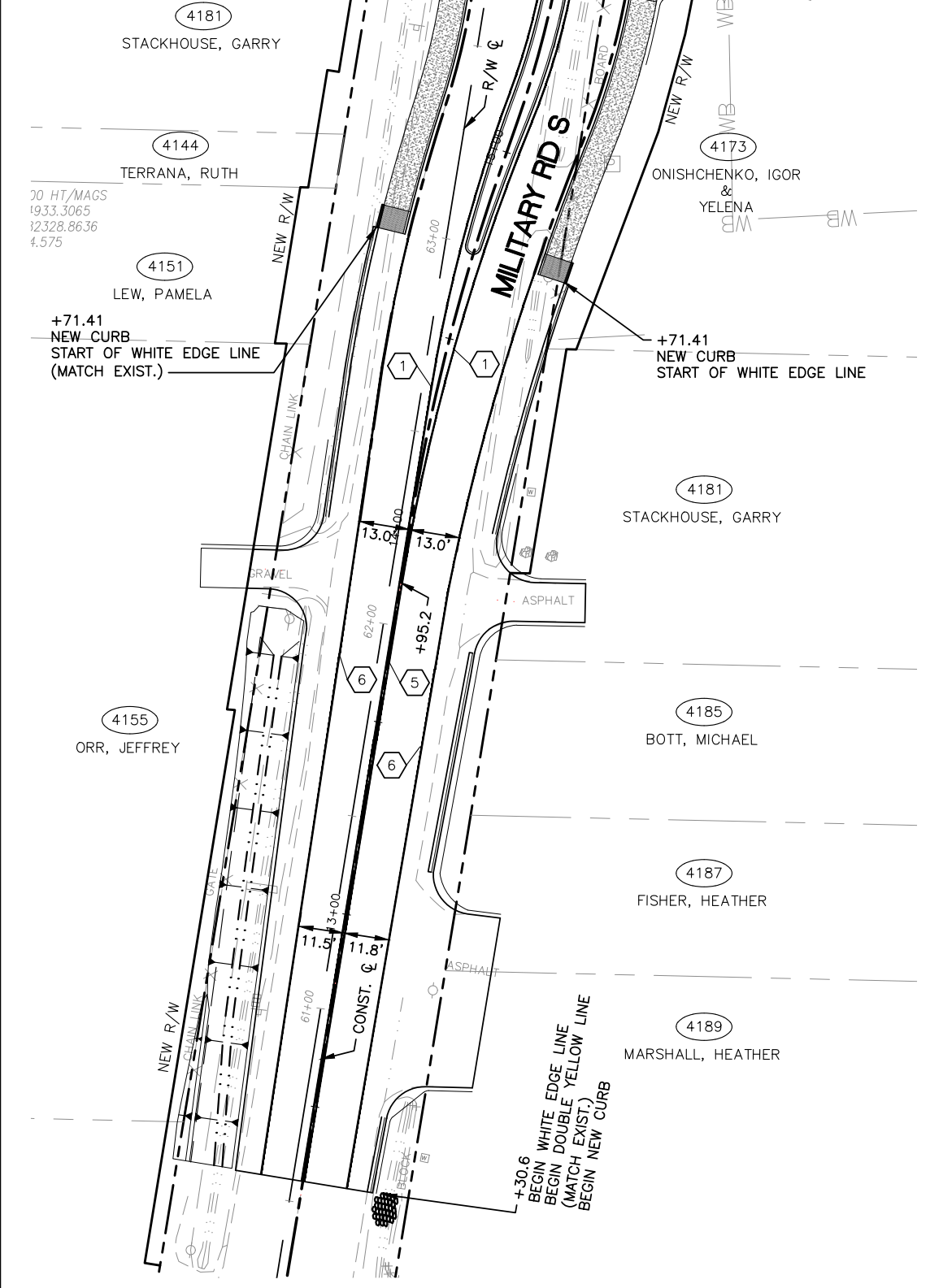
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**S 360th ST AND MILITARY RD S
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CHANNELIZATION PLAN 1

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SHEET **43**
OF
60
SHEETS

320-93 (43)

MATCHLINE STA. 15+52 SEE SHT 43

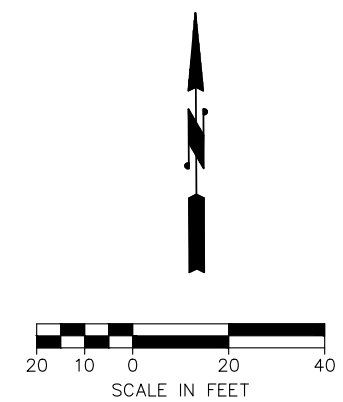


CHANNELIZATION NOTES

- ① 4" PAINTED YELLOW LINE
- ② 12" WHITE PLASTIC YIELD LINE
- ③ PLASTIC CROSSWALK LINE PER KCRDCS FIG. 4-002
- ④ 8" WHITE PLASTIC EDGE LINE
- ⑤ 4" DOUBLE YELLOW CENTERLINE
- ⑥ 4" WHITE EDGE LINE

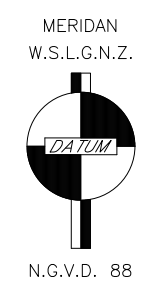
CONSTRUCTION NOTES

- 1. INSTALL CROSSWALK STRIPE PER KCRDCS FIG. 4-002.



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
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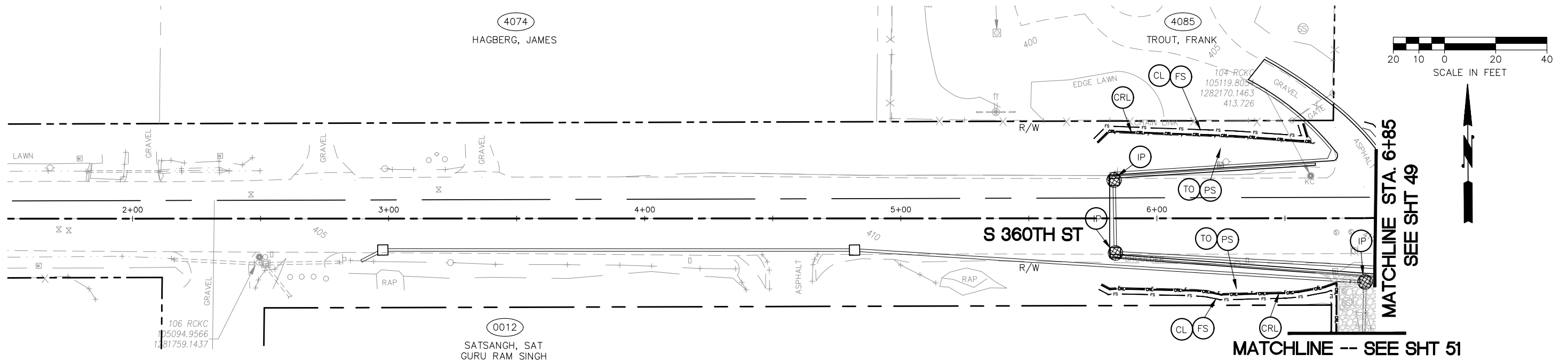
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
CHANNELIZATION PLAN 2

SHEET
44
OF
60
SHEETS

320-93 (44)

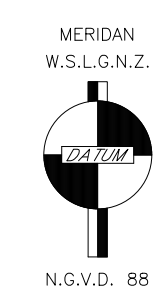
T.E.S.C. LEGEND:

- FS ———— FLAGS & STAKES (CLEARING LIMIT)
- CRL ———— COIR LOG
- F ———— FILL LINE
- C ———— CUT LINE
- CL CLEARING LIMIT
- CRL COIR LOG (12")
- DC DUST CONTROL
- FS FLAGS & STAKES (CLEARING LIMIT)
- VEG VEGETATION PRESERVATION
- IP INLET PROTECTION
- PS PERMANENT SEEDING
- SM STRAW MULCH
- TO TOP SOIL



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

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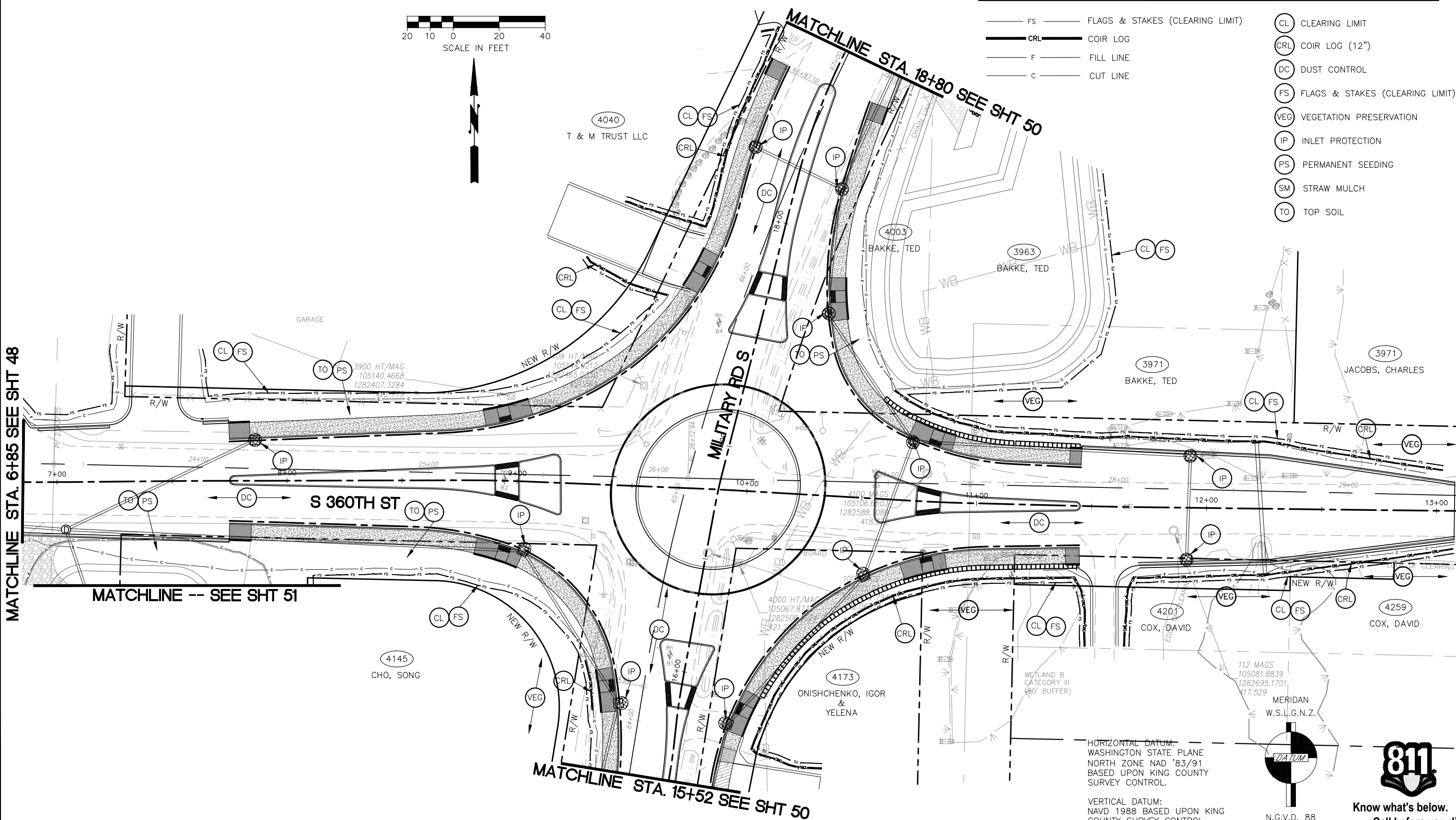
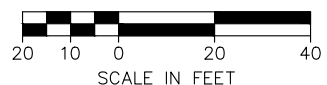
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PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
TESC PLAN 1

	SHEET	48
	OF	60
	SHEETS	
320-93		(48)

T.E.S.C. LEGEND:

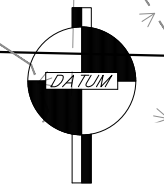
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- CRL ———— COIR LOG
- F ———— FILL LINE
- C ———— CUT LINE
- CL CLEARING LIMIT
- CRL COIR LOG (12")
- DC DUST CONTROL
- FS FLAGS & STAKES (CLEARING LIMIT)
- VEG VEGETATION PRESERVATION
- IP INLET PROTECTION
- PS PERMANENT SEEDING
- SM STRAW MULCH
- TO TOP SOIL



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
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SURVEY CONTROL.

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COUNTY SURVEY CONTROL

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CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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FED. AID No. ————

PROJECT No. 1131235

MAINTENANCE DIVISION No. 4

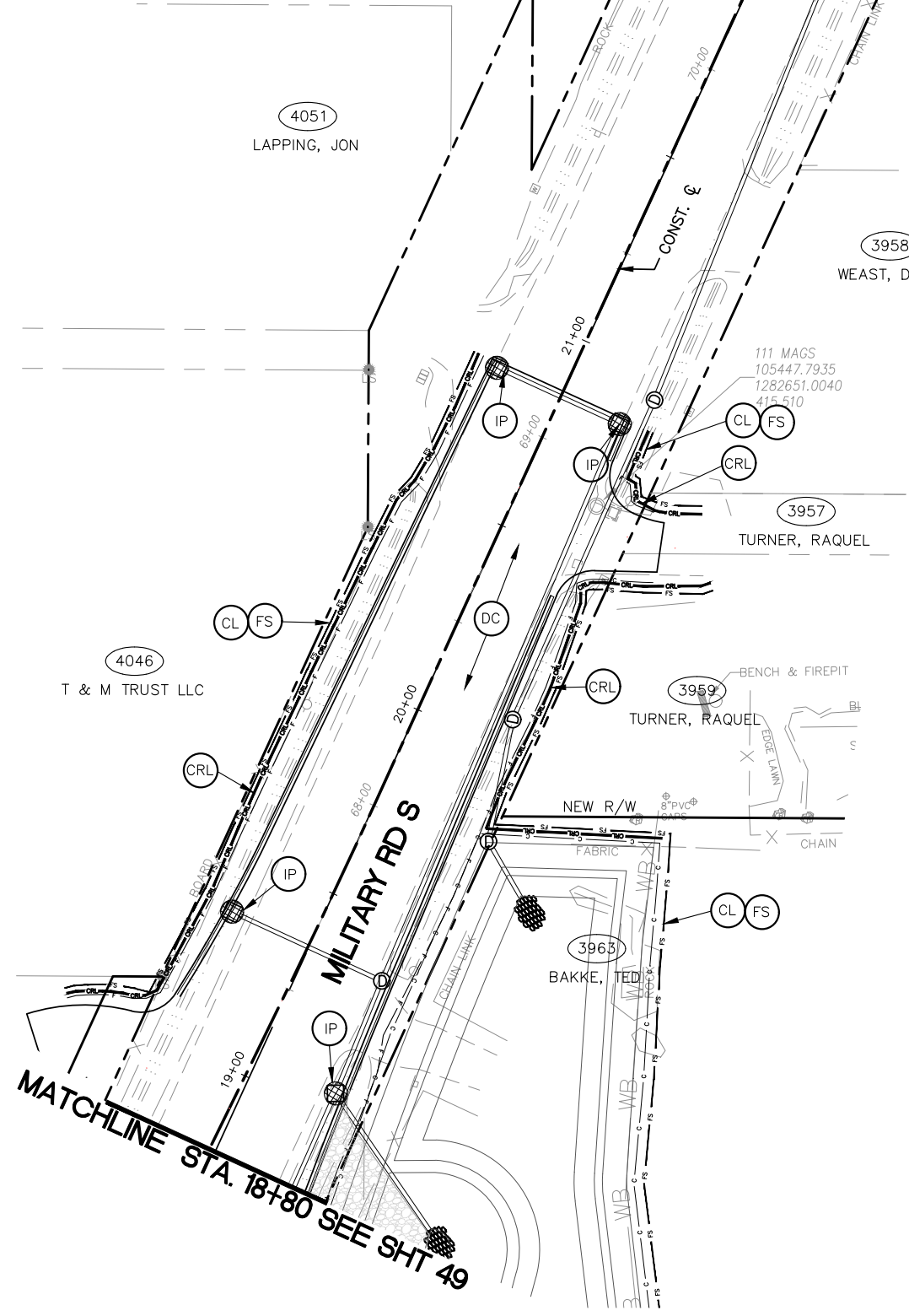
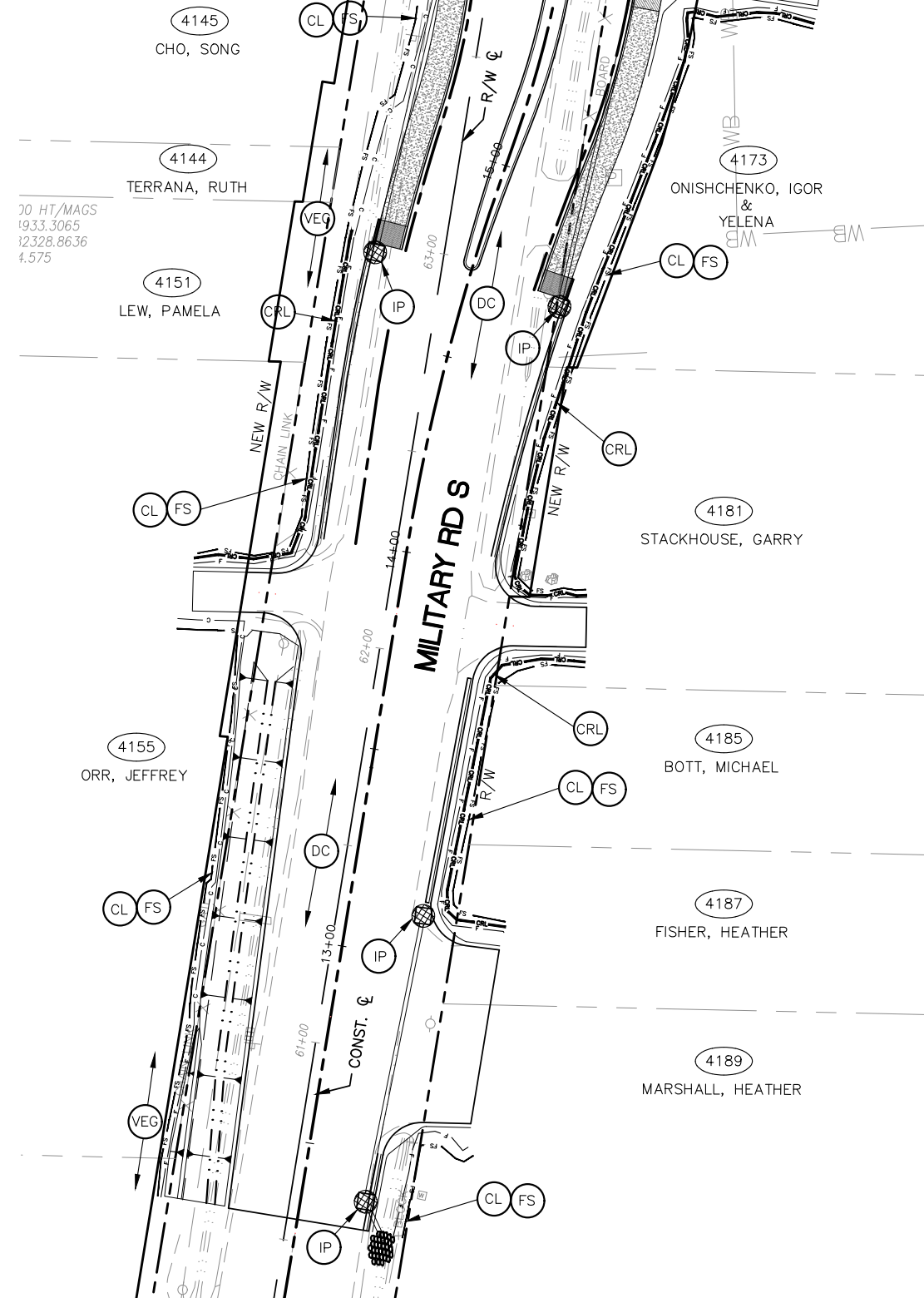
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
TESC PLAN 2

SHEET **49**
OF
60
SHEETS

320-93 (49)

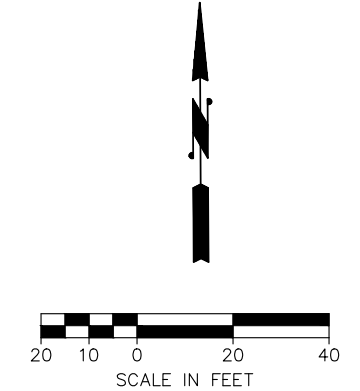
MATCHLINE STA. 15+52 SEE SHT 49

MATCHLINE STA. 22+21 SEE SHT 51



T.E.S.C. LEGEND:

- CLEARING LIMIT
 - COIR LOG (12")
 - DUST CONTROL
 - FLAGS & STAKES (CLEARING LIMIT)
 - VEGETATION PRESERVATION
- FS ———— FLAGS & STAKES (CLEARING LIMIT)
 CRL ———— COIR LOG
 F ———— FILL LINE



MERIDIAN
 W.S.L.G.N.Z.

 HORIZONTAL DATUM:
 WASHINGTON STATE PLANE
 NORTH ZONE NAD '83/91
 BASED UPON KING COUNTY
 SURVEY CONTROL.
 VERTICAL DATUM:
 NAVD 1988 BASED UPON KING
 COUNTY SURVEY CONTROL
 N.G.V.D. 88



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SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

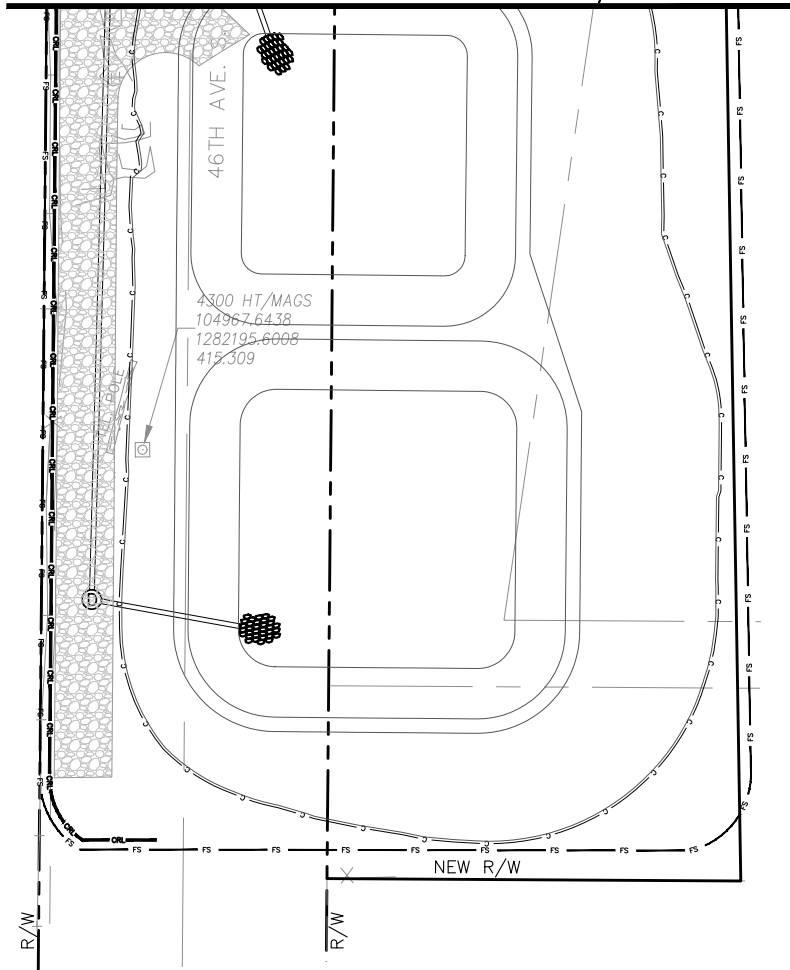
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PROGRESS COPY
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PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

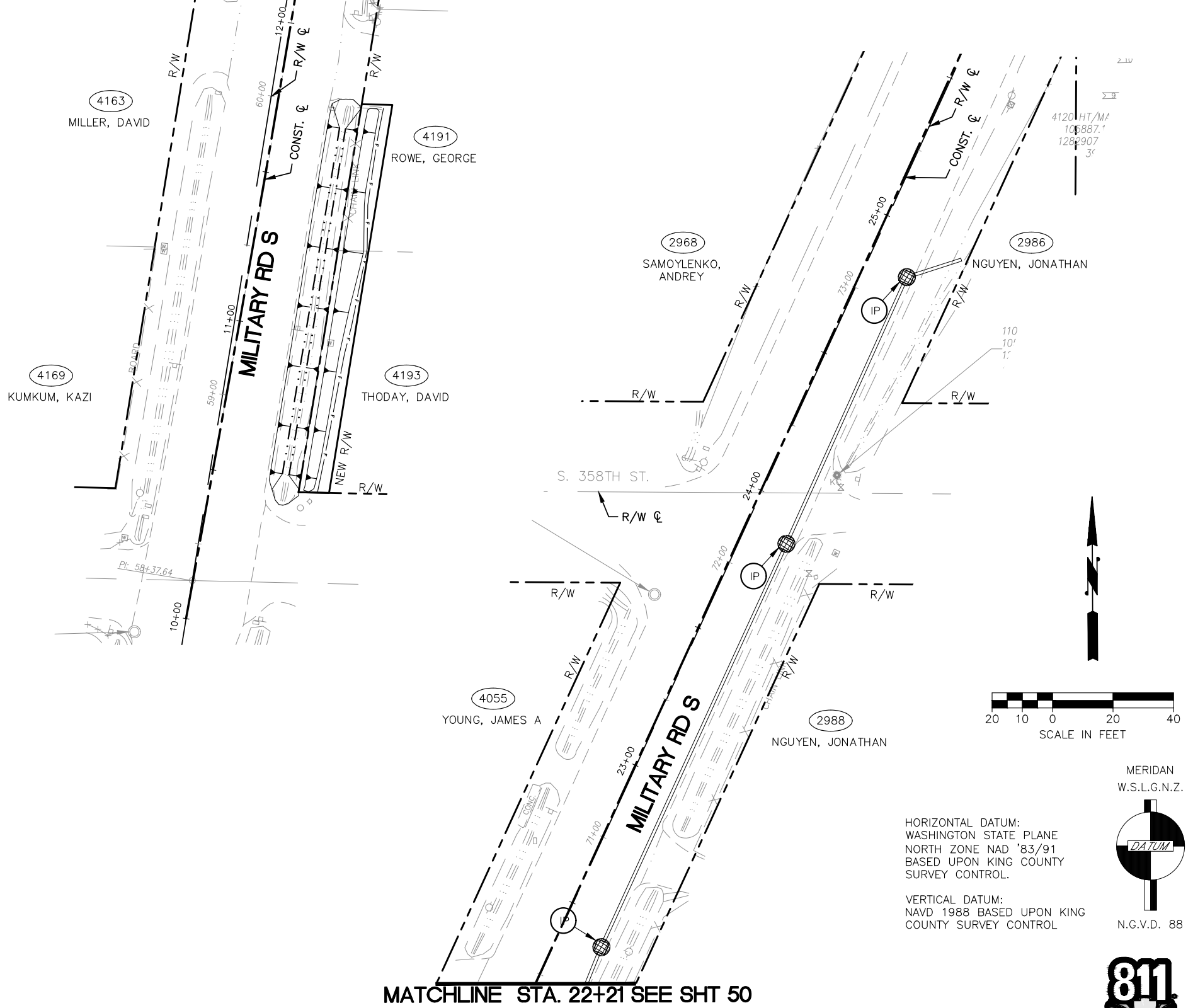
KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 TESC PLAN 3

SHEET
50
 OF
60
 SHEETS
320-93 (50)

MATCHLINE -- SEE SHT 48, 49








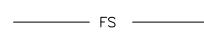
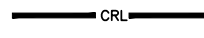
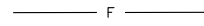
MATCHLINE STA. 12+09 SEE SHT 50



MATCHLINE STA. 22+21 SEE SHT 50

T.E.S.C. LEGEND:

-  CLEARING LIMIT
-  COIR LOG (12")
-  DUST CONTROL
-  FLAGS & STAKES (CLEARING LIMIT)
-  VEGETATION PRESERVATION

-  FS FLAGS & STAKES (CLEARING LIMIT)
-  CRL COIR LOG
-  F FILL LINE



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
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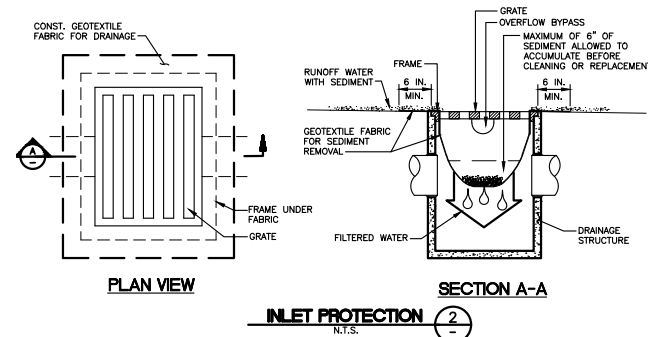
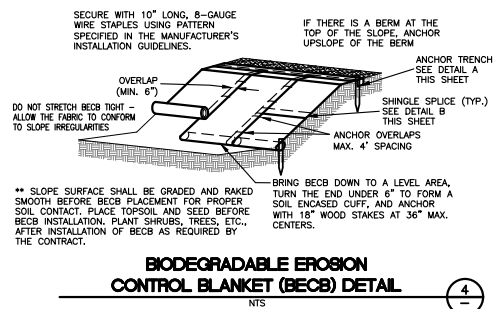
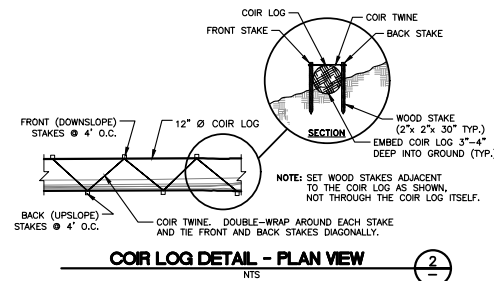
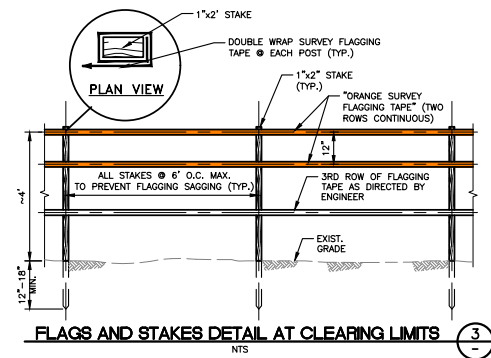
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PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
TESC PLAN 2



SHEET
51
OF
60
SHEETS

320-93 (51)



T.E.S.C. NOTES:

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (e.g., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OF FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED), AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (e.g. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY KING COUNTY.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.

RECOMMENDED CONSTRUCTION SEQUENCE

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

- HOLD THE PRE-CONSTRUCTION MEETING.
- POST SIGN WITH NAME AND PHONE NUMBER OF CSWPP/ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION, IF REQUIRED. INSTALL FLOW CONTROL BMP AREA PROTECTION, IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- CONSTRUCT SEDIMENT PONDS AND TRAPS.
- GRADE AND STABILIZED CONSTRUCTION ROADS.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT. CONSTRUCT SWPPS IN ANTICIPATION OF SCHEDULED CONSTRUCTION ACTIVITY (E.G., CONCRETE-RELATED PH MEASURES FOR UTILITY, VAULT OR ROADWAY CONSTRUCTION.
- MAINTAIN EROSION CONTROL AND SWPPS MEASURES IN ACCORDANCE WITH KING COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL AND SWPPS MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL AND POLLUTANT PROTECTION IS ALWAYS IN ACCORDANCE WITH *THE KING COUNTY CONSTRUCTION STORMWATER POLLUTION PREVENTION STANDARDS*.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- STABILIZED ALL AREAS WITH SEVEN DAYS OF REACHING FINAL GRADE.
- SEED, SOD, STABILIZE OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMP'S IF APPROPRIATE.



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PROJECT No.	1131235
MAINTENANCE DIVISION No.	4





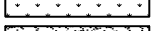
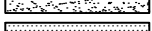


KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAOUT**
TEMPORARY EROSION AND SEDIMENT CONTROL (T.E.S.C.) DETAILS

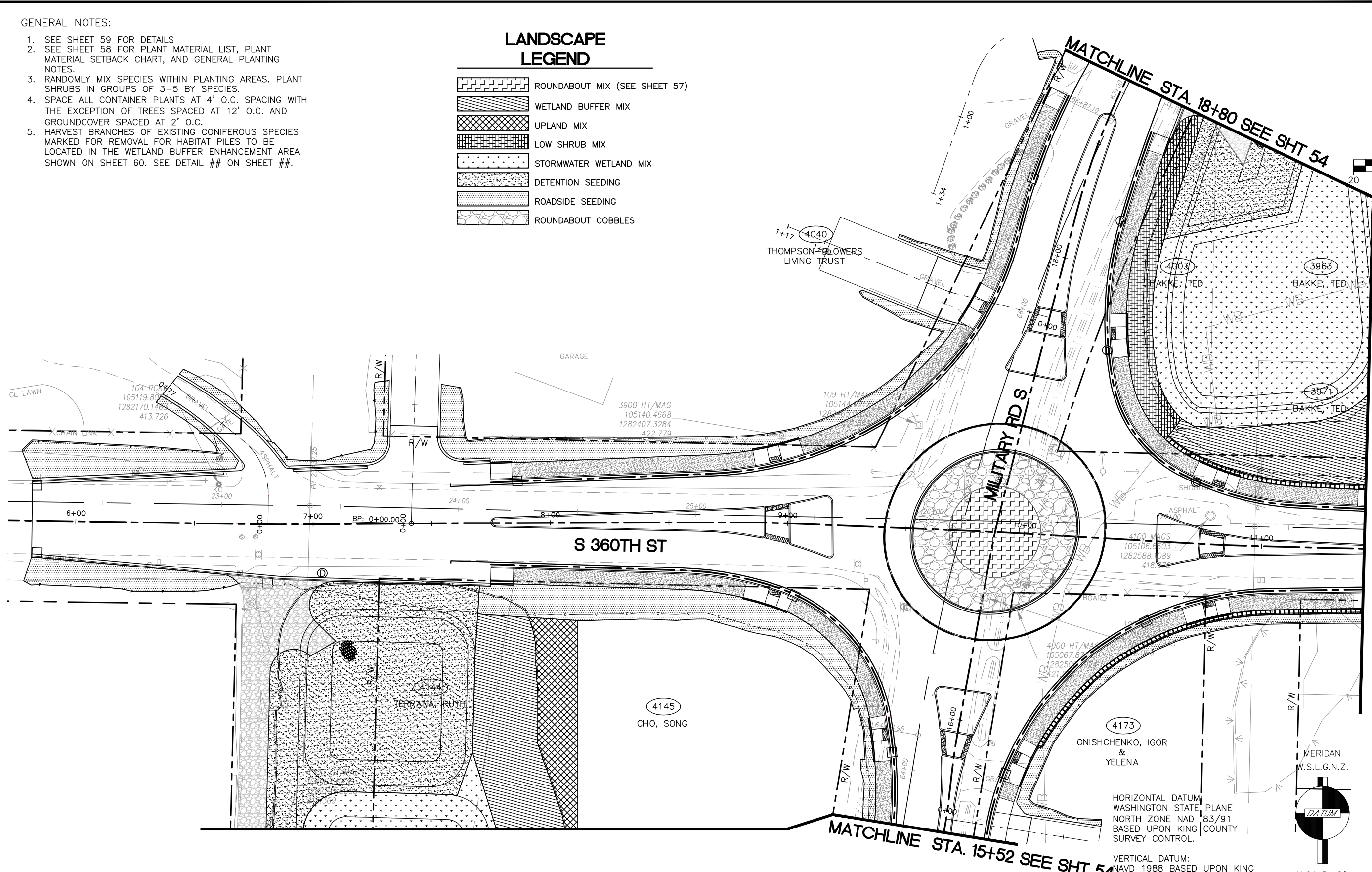
SHEET
52
OF
60
SHEETS
320-93 (52)

GENERAL NOTES:

1. SEE SHEET 59 FOR DETAILS
2. SEE SHEET 58 FOR PLANT MATERIAL LIST, PLANT MATERIAL SETBACK CHART, AND GENERAL PLANTING NOTES.
3. RANDOMLY MIX SPECIES WITHIN PLANTING AREAS. PLANT SHRUBS IN GROUPS OF 3-5 BY SPECIES.
4. SPACE ALL CONTAINER PLANTS AT 4' O.C. SPACING WITH THE EXCEPTION OF TREES SPACED AT 12' O.C. AND GROUNDCOVER SPACED AT 2' O.C.
5. HARVEST BRANCHES OF EXISTING CONIFEROUS SPECIES MARKED FOR REMOVAL FOR HABITAT PILES TO BE LOCATED IN THE WETLAND BUFFER ENHANCEMENT AREA SHOWN ON SHEET 60. SEE DETAIL ## ON SHEET ##.

LANDSCAPE LEGEND

-  ROUNDABOUT MIX (SEE SHEET 57)
-  WETLAND BUFFER MIX
-  UPLAND MIX
-  LOW SHRUB MIX
-  STORMWATER WETLAND MIX
-  DETENTION SEEDING
-  ROADSIDE SEEDING
-  ROUNDABOUT COBBLES



HORIZONTAL DATUM:
WASHINGTON STATE, PLANE
NORTH ZONE NAD 83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL

811
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King County
320-93 (53)

SURVEY JOB No.:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
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CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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PROJECT No. 1131235

MAINTENANCE DIVISION No. 4





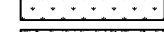
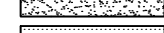


KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAOUT**
LANDSCAPE PLAN 2

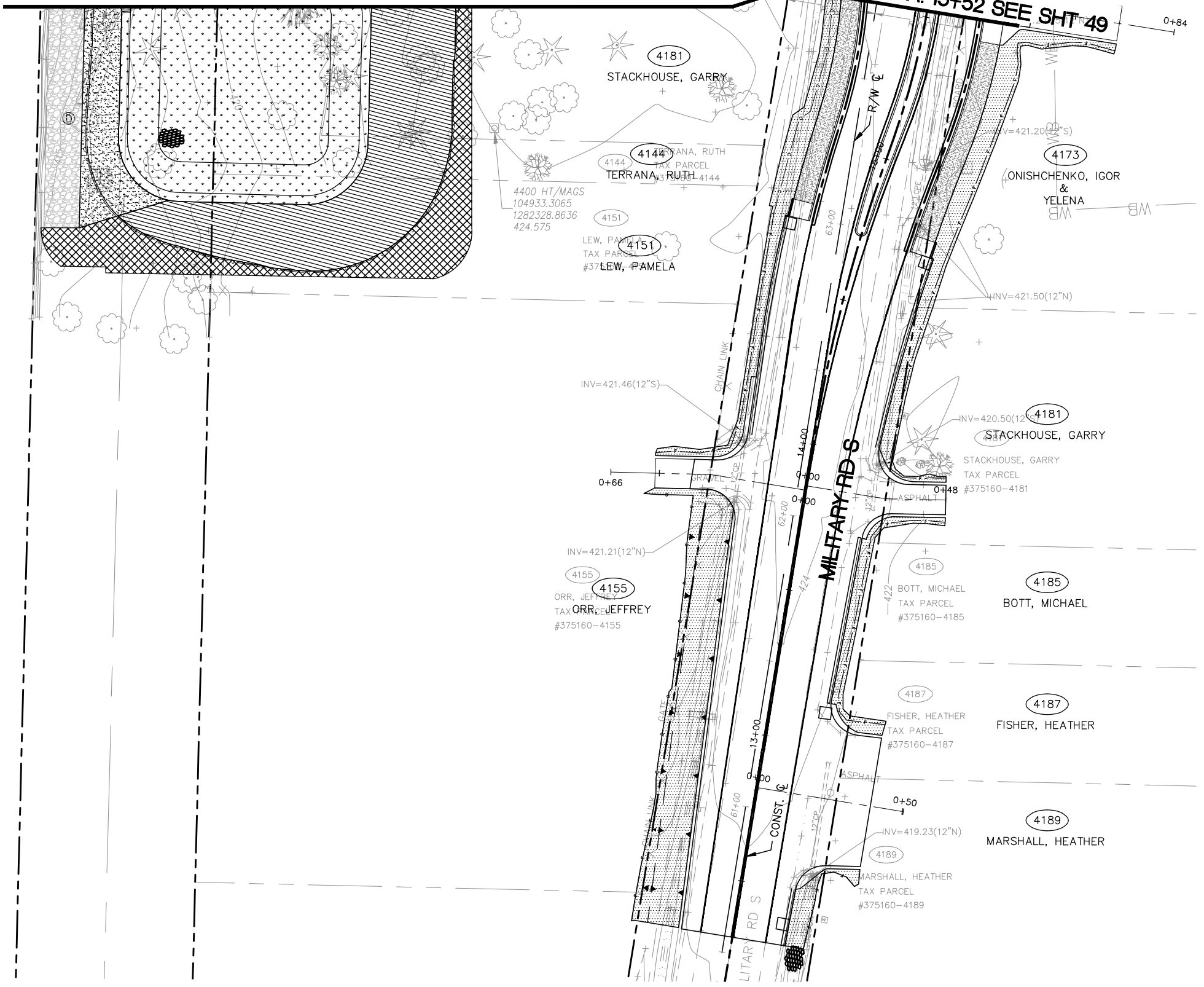
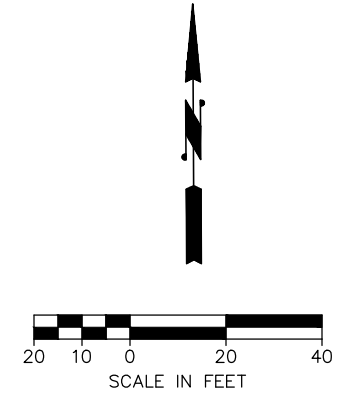
SHEET
53
OF
60
SHEETS

320-93 (53)

MATCHLINE STA. 15+52 SEE SHT 49

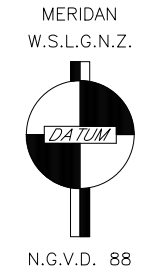
LANDSCAPE LEGEND

-  ROUNDABOUT MIX (SEE SHEET 57)
-  WETLAND BUFFER MIX
-  UPLAND MIX
-  LOW SHRUB MIX
-  STORMWATER WETLAND MIX
-  DETENTION SEEDING
-  ROADSIDE SEEDING
-  ROUNDABOUT COBBLES



HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
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COUNTY SURVEY CONTROL



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PROJECT No. 1131235

MAINTENANCE DIVISION No. 4





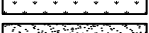
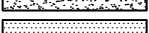
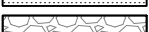
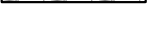
KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDAOUT**
LANDSCAPE PLAN 1

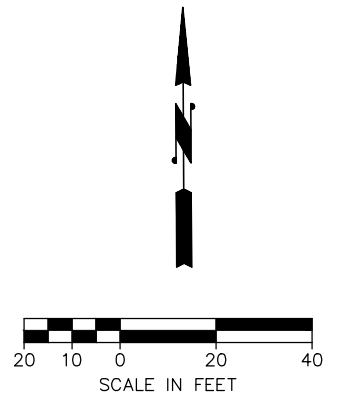
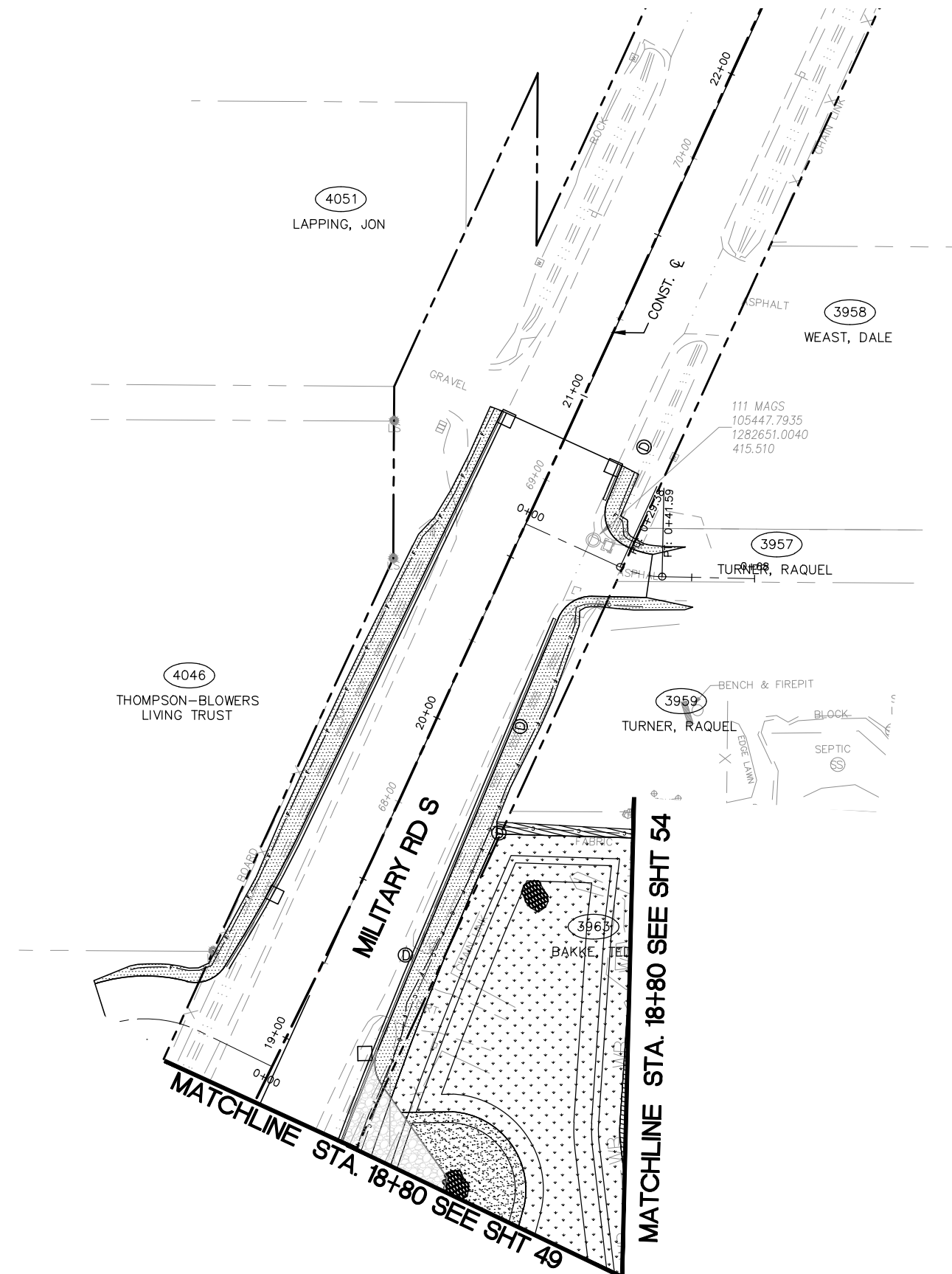


SHEET
54
OF
60
SHEETS

320-93 (54)

LANDSCAPE LEGEND

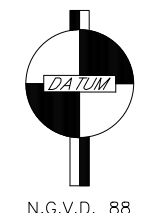
-  ROUNDABOUT MIX (SEE SHEET 57)
-  WETLAND BUFFER MIX
-  UPLAND MIX
-  LOW SHRUB MIX
-  STORMWATER WETLAND MIX
-  DETENTION SEEDING
-  ROADSIDE SEEDING
-  ROUNDABOUT COBBLES



MERIDAN
W.S.L.G.N.Z.

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
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KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
LANDSCAPE PLAN 2

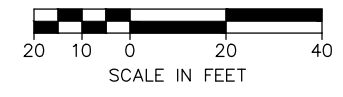
 SHEET
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OF
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SHEETS

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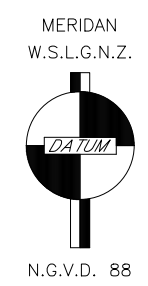
LANDSCAPE LEGEND

- ROUNDABOUT MIX (SEE SHEET 57)
- WETLAND BUFFER MIX
- UPLAND MIX
- LOW SHRUB MIX
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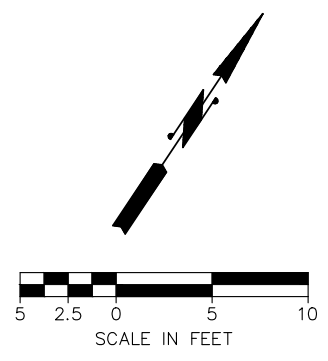
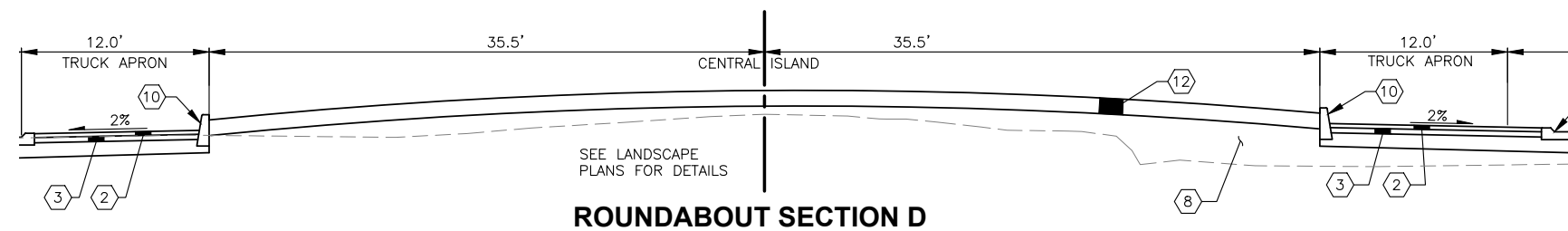
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ROUNDABOUT**
LANDSCAPE PLAN 1

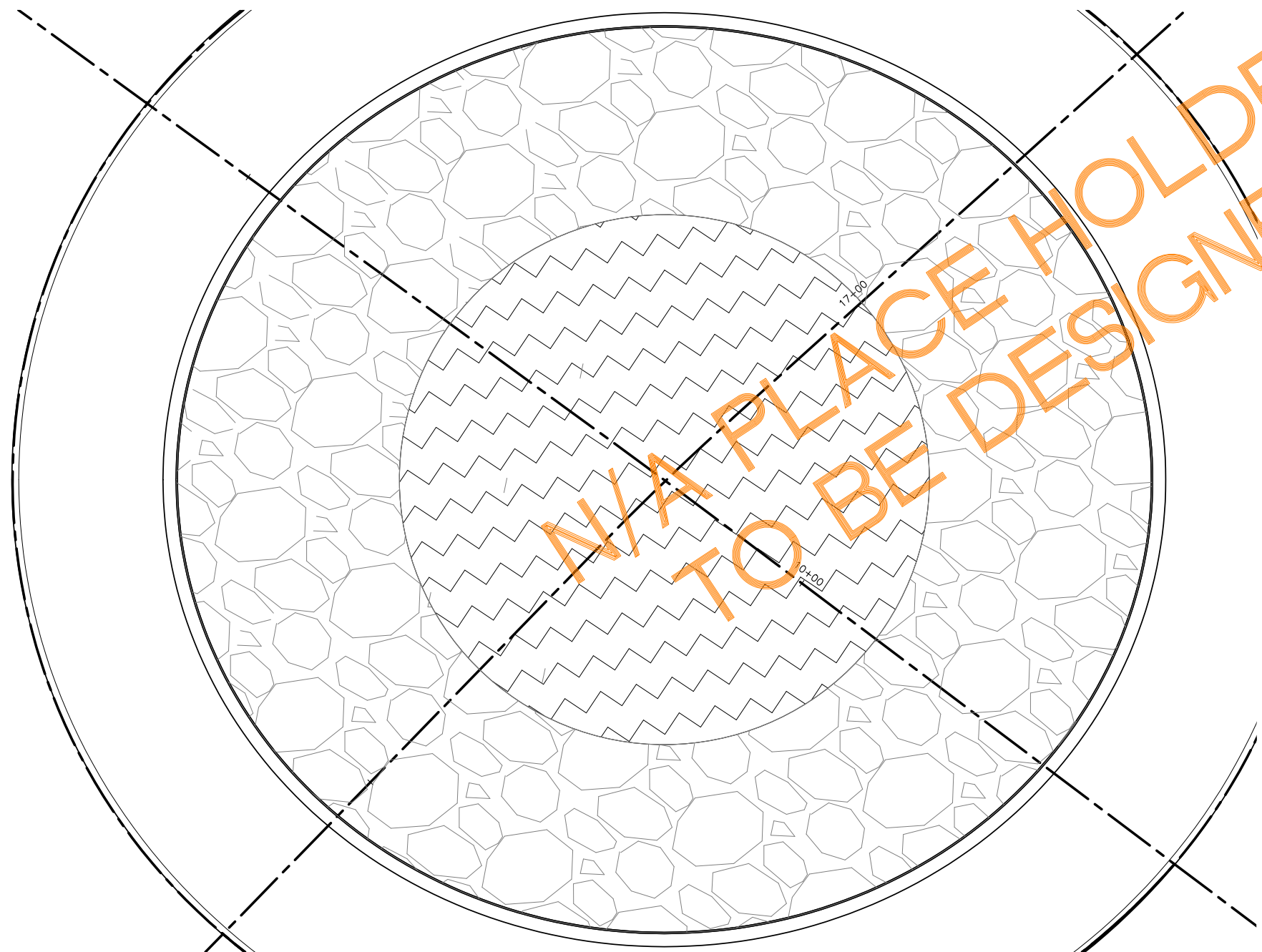
SHEET
56
OF
60
SHEETS
320-93 (56)



LANDSCAPE LEGEND	
	XXXX
	XXX
	NOOTKA ROSE
	XXX
	XXX
	EVERGREEN HUCKLEBERRY
	XXX
	KINNIKINNIK G.C.

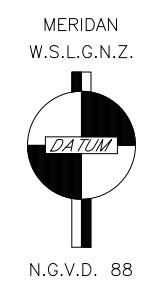
GENERAL NOTES

1. ALL PLANTING SHALL BE DONE AFTER FINAL GRADE OF THE TOPSOIL ARE APPROVED BY THE ENGINEER. ALL PLANTING LAYOUTS SHALL BE APPROVED BY THE ENGINEER, PRIOR TO PLANTING.
2. ALL PLANTING AREAS SHALL BE COVERED WITH A THREE-INCH UNIFORM DEPTH OF NEW BARK MULCH.
3. ALL NEW PLANTING BEDS SHALL BE THOROUGHLY SOAKED AFTER BARK MULCH IS INSTALLED.
4. ALL TREES SHALL BE PLANTED TO MEET THE CURRENT KCRDC STANDARDS.
5. ALL PLANTER AREAS EXCAVATION SHALL BE CAREFULLY COORDINATED WITH NEW TOP SOIL PLACEMENT, AND NEW PLANTING.



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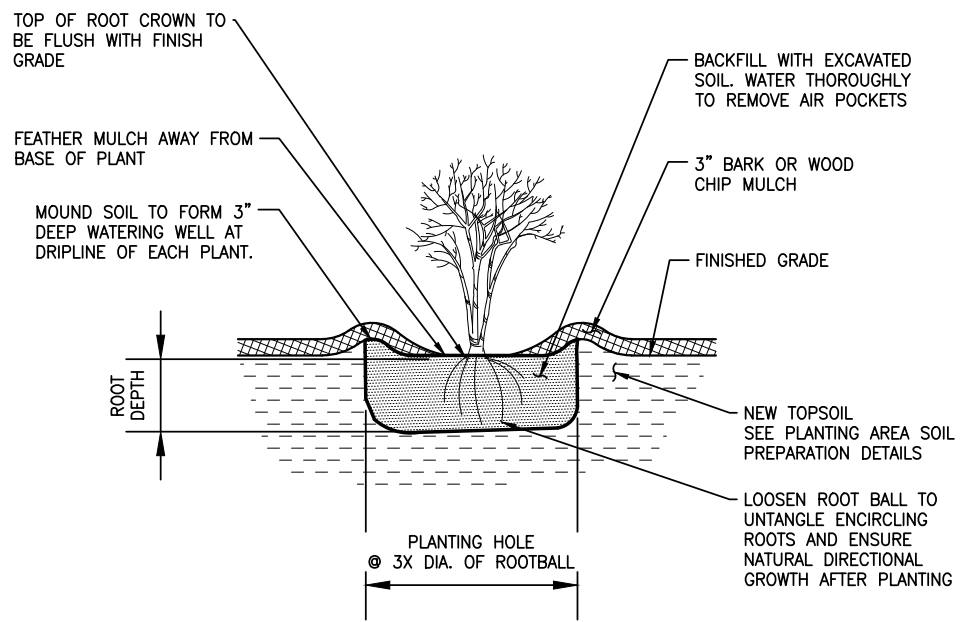
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PROJECT No.	1131235
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**S 360th ST AND MILITARY RD S
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LANDSCAPE PLAN 1

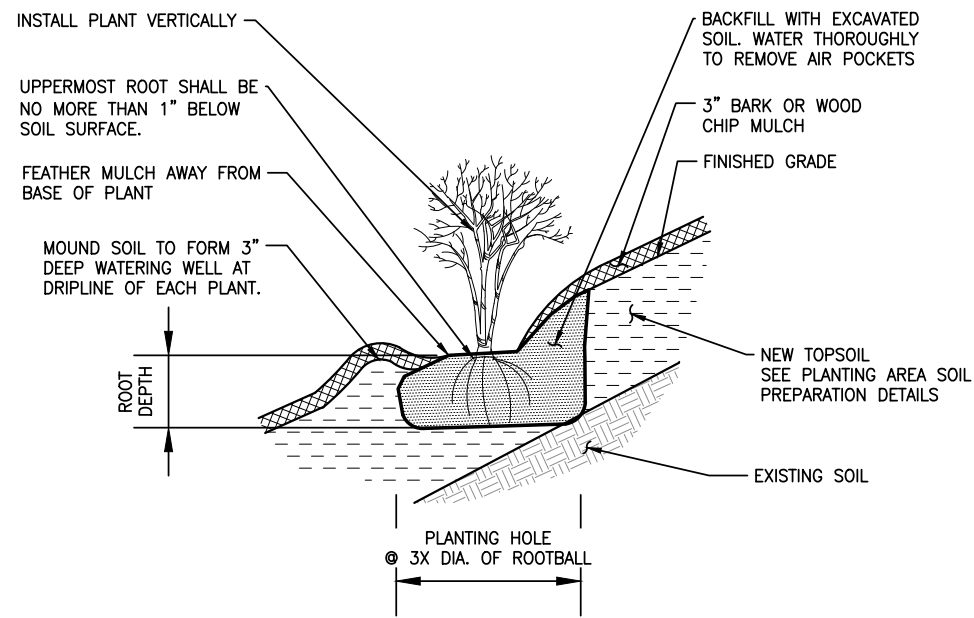
	SHEET	57
	OF	60
	SHEETS	(57)
320-93		



CONTAINERIZED PLANTING

NTS

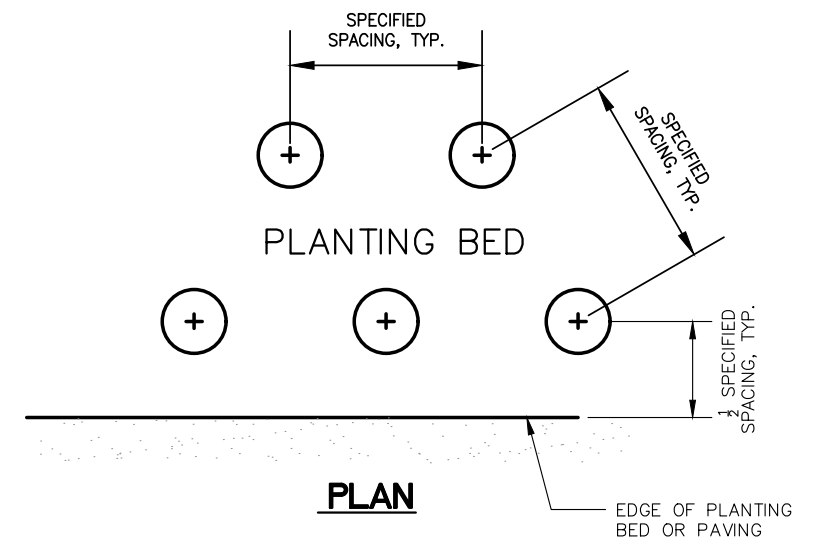
1
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PLANTING ON SLOPE

NTS

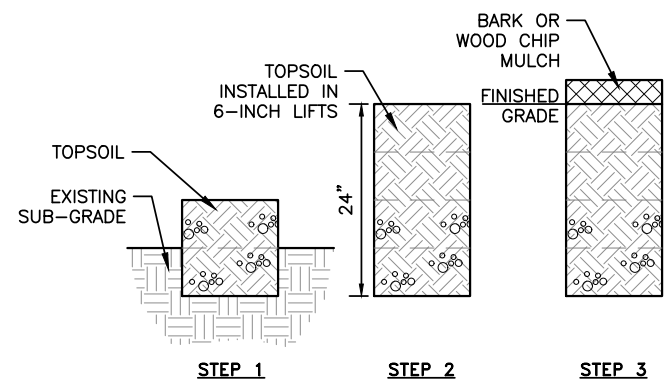
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SHRUB AND GROUNDCOVER SPACING

NTS

3
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PLANTING AREA SOIL PREPARATION

NTS

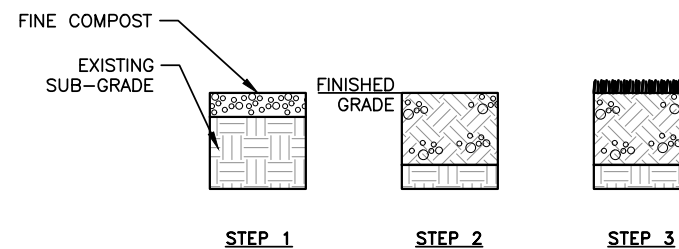
4
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STEP 1
INCORPORATE 6 INCHES OF TOPSOIL INTO EXISTING DECOMPACTED SUB-GRADE TO A DEPTH OF 10 INCHES.

STEP 2
PLACE SUCCESSIVE 6-INCH LIFTS OF TOPSOIL, COMPACTING EACH LIFT IN ACCORDANCE WITH SECTION 8-02.3(4)A.

STEP 3
PLACE 3 INCHES OF BARK OR WOOD CHIP MULCH.

- NOTES:
1. ALL AREAS OF COMPACTED SUBGRADE INCLUDING STAGING AREAS SHALL BE DECOMPACTED BY RIPPING SOIL TO A DEPTH OF 18" PRIOR TO SOIL INSTALLATION.
 2. FOR STRUCTURAL EARTH WALL BACKFILL AREA, OMIT STEP 1.
 3. TOPSOIL AND COMPOST SOCK INSTALLATION MUST BE APPROVED BEFORE BARK OR WOOD CHIP MULCH IS PLACED.



SEEDING AREA SOIL PREPARATION

NTS

5
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STEP 1
PLACE 3 INCHES OF FINE COMPOST AS SOIL AMENDMENT.

STEP 2
INCORPORATE FINE COMPOST INTO EXISTING SUB-GRADE TO A DEPTH OF 10 INCHES.

STEP 3
APPLY SEEDING, FERTILIZING, AND MULCHING.

- NOTES:
1. ALL AREAS OF COMPACTED SUBGRADE INCLUDING STAGING AREAS SHALL BE DECOMPACTED BY RIPPING SOIL TO A DEPTH OF 18" PRIOR TO SOIL AMENDMENT.

SURVEY JOB NO:	17042	05/2019			
CHECKED:	T. CRAY	05/2019			
CAD ENTERED:	VERDUGO/PARRETT	2/14/22			
DESIGNED:	A. VERDUGO	2/14/22			
CHECKED:	M. KARINEN	2/14/22			
SUPERVISOR:	A. MCMANUS	2/14/22			
	NUM.	REVISION	BY	DATE	

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03/03/22**

FED. AID No. _____
PROJECT No. 1131235
MAINTENANCE DIVISION No. 4

KING COUNTY DEPT. OF LOCAL SERVICES
JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**
RESTORATION DETAILS

Know what's below.
Call before you dig.

811

SHEET **58**
OF
60
SHEETS

320-93 (58)

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS
TREES					
BIGLEAF MAPLE	ACER MACROPHYLLUM	57	18 IN. HT.	NO. 2 CONT.	SECTION 9-14.7(2), SINGLE LEADER
ROCKY MOUNTAIN GLOW MAPLE	ACER GRANDIDENTATUM 'SCHMIDT'	3	18 IN. HT.	NO. 2 CONT.	SECTION 9-14.7(2), SINGLE LEADER
RED ALDER	ALNUS RUBRA	26	18 IN. HT.	NO. 2 CONT.	SECTION 9-14.7(2), SINGLE LEADER
CASCARA	FRANGULA PURSHIANA	47	18 IN. HT.	NO. 2 CONT.	SECTION 9-14.7(2), MULTI-STEMMED
SHORE PINE	PINUS CONTORTA	1	5 FT. HT.	NO. 10 CONT.	SECTION 9-14.7(2), SINGLE LEADER
DOUGLAS FIR	PSEUDOTSUGA MENZIESII	14	18 IN. HT.	NO. 2 CONT.	SECTION 9-14.7(2), SINGLE LEADER
SHRUBS					
VINE MAPLE***	ACER CIRCINATUM	33	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
REDSIER DOGWOOD***	CORNUS STOLONIFERA	183	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
WESTERN BEAKED HAZELNUT***	CORYLUS CORNUTA	248	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
OSOBERRY	OEMLERIA CERASIFORMIS	228	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
THIMBLEBERRY**	RUBUS PARVIFLORUS	41	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE CANE MIN.
SALMONBERRY	RUBUS SPECTABILIS	228	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE CANE MIN.
SNOWBERRY**	SYMPHORICARPOS ALBUS	112	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
TRAILING SNOWBERRY**	SYMPHORICARPOS MOLLIS	38	12 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
FERNS AND GROUNDCOVERS					
BEACH STRAWBERRY	FRAGARIA CHILOENSIS	45	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
SALAL	GAULTHERIA SHALLON	38	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
LOW OREGON GRAPE*	MAHONIA NERVOSA	134	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE STEM MIN.
SWORD FERN**	POLYSTICHUM MUNITUM	396	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), THREE FROND MIN.
EMERGENTS					
SLOUGH SEDGE	CAREX OBNUPTA	1588	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
SPIKE RUSH	ELEOCHARIS PALUSTRIS	1377	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
WESTERN MANNA GRASS	GLYCERIA OCCIDENTALIS	1377	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
SOFT RUSH	JUNCUS EFFUSUS	1588	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
SLENDER RUSH	JUNCUS TENUIS	1588	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
WATER PARSLEY	OENANTHE SARMENTOSA	1377	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER
HARDSTEM BULRUSH	SCHOENOPECTUS ACUTUS	1695	6 IN. HT.	NO. 1 CONT.	SECTION 9-14.7(2), FULL CONTAINER

*,**,*** SEE PLANT MATERIAL SETBACK CHART FOR EACH VEGETATION AND TREE TYPE.

PLANT MATERIAL NOTES:

- IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK (ASNS) ANSI Z60.1 AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY. SPECIFICATIONS FOR SIZE AND ROOT CONDITION ARE MINIMUMS BASED ON ASNS SIZING STANDARDS IN ACCORDANCE WITH SECTION 9-14.7(2).
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK.
- ALL PLANT MATERIAL SHALL BE CONSIDERED "PSIPE _____".

PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS. SETBACKS APPLY UNLESS OTHERWISE ADJUSTED BY THE ENGINEER DURING PLANT STAKING OR LAYOUT. DISTANCES BELOW ARE TO THE STEM OR TRUNK OF THE PLANT BEING INSTALLED.

	EDGE OF ROADWAY ^a	FACE OF WALL	BACK OF WALL	FENCE	SIGNS	EXISTING TREE TRUNK	EXISTING VEGETATION MASS	OVERHEAD POWER	DRAINAGE STRUCTURE
GROUNDCOVER *	5'	1.5'	1.5'	1.5'	1.5'	5'	5'	-	5'
SMALL SHRUB **	5'	3'	3'	3'	5'	5'	5'	-	5'
TALL SHRUB ***	15'	5'	5'	5'	6'	10'	10'	10'	10'
ALDER	80'	40'	40'	40'	80'	40'	10'	80'	80'
BIGLEAF MAPLE	40'	20'	20'	20'	40'	20'	10'	40'	40'
CONIFEROUS TREE	20'	15'	10'	10'	15'	15'	10'	20'	15'

^a IF THERE IS A ROADSIDE DITCH, GROUNDCOVER AND SMALL SHRUB OFFSET IS 15' FROM EDGE OF ROADWAY.
 *,**,*** SEE PLANT MATERIAL LIST FOR EACH VEGETATION AND TREE TYPE.

RESTORATION NOTES:

- THE CLEARING AND GRUBBING AREA SHOWN ON SHEET 6 REFLECTS THE MAXIMUM DISTURBANCE AREA ANTICIPATED AND PERMITTED. ALL PROPOSED PLANTS SHALL BE PLANTED WITHIN THE DESIGNATED RESTORATION AREA.
- CONTRACTOR SHALL HAVE ALL MATERIAL INSPECTED AND TREE LAYOUTS APPROVED BY THE ENGINEER PRIOR TO PLANTING.
- PLANTINGS SHALL TAKE PLACE DURING THE PLANT DORMANCY PERIOD (NOVEMBER 1ST TO MARCH 1ST) OR AS DIRECTED BY THE ENGINEER.
- IN ACCORDANCE WITH SECTION 8-02.3(8)A, NO SUBSTITUTION OF PLANT MATERIAL, SPECIES OR VARIETY, WILL BE ALLOWED UNLESS EVIDENCE IS SUBMITTED IN WRITING WITHIN 30 CALENDAR DAYS OF EXECUTION OF CONTRACT TO THE ENGINEER THAT A SPECIFIED PLANT CANNOT BE OBTAINED AND HAS BEEN UNOBTAINABLE SINCE THE AWARD OF THE CONTRACT.



Know what's below.
Call before you dig.

SURVEY JOB NO:	17042	05/2019
CHECKED:	T. CRAY	05/2019
CAD ENTERED:	VERDUGO/PARRETT	2/14/22
DESIGNED:	A. VERDUGO	2/14/22
CHECKED:	M. KARINEN	2/14/22
SUPERVISOR:	A. MCMANUS	2/14/22

NUM.	REVISION	BY	DATE

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03/03/22

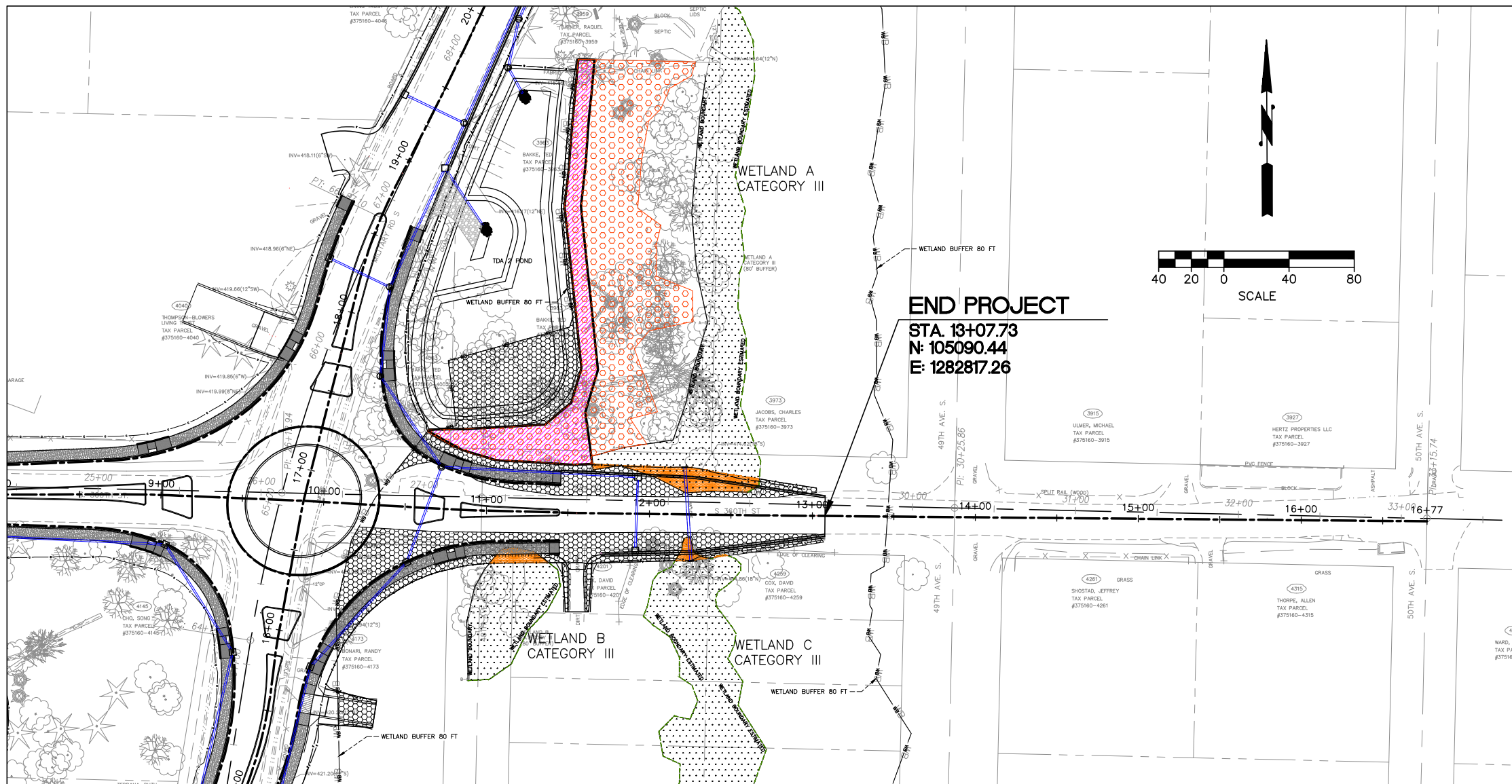
FED. AID No.	—
PROJECT No.	1131235
MAINTENANCE DIVISION No.	4

KING COUNTY DEPT. OF LOCAL SERVICES
 JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
 ROUNDABOUT**
 RESTORATION DETAILS

SHEET
59
OF
60
SHEETS

320-93 (59)

N:\1131235-S 360th St at Military Rd S\Development-Design Work\CAD\DESIGN CAD\CIVIL DESIGN CAD\Landscape\1131235xWetland Mitigation-2-23-22.dwg, 3/4/2022 3:20:56 PM, DWG To PDF.pc3



LEGEND

- WETLAND
- PERMANENT WETLAND IMPACTS
- PERMANENT WETLAND BUFFER IMPACTS
- TEMPORARY WETLAND BUFFER IMPACTS
- WETLAND BUFFER RESTORATION
- WETLAND BUFFER ENHANCEMENT

WETLAND BOUNDARY DELINEATED
 WETLAND BOUNDARY APPROXIMATE
 WETLAND BUFFER BOUNDARY

IMPACTS/MITIGATION	TOTAL AREA SQ. FT.
PERMANENT WETLAND IMPACTS	1,178
PERMANENT WETLAND BUFFER IMPACTS	13,940
TEMPORARY WETLAND BUFFER IMPACTS	4,165
WETLAND BUFFER RESTORATION	4,165
WETLAND BUFFER ENHANCEMENT	9,785

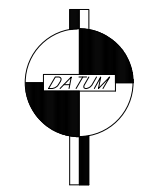
PLANTING NOTES:

1. PLANTING SHALL OCCUR DURING THE DORMANT SEASON (11/1-2/28). PLANTING MAY BE ALLOWED AT OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY THE ENGINEER IN COORDINATION WITH THE PROJECT ENVIRONMENTAL SCIENTIST OR LANDSCAPE ARCHITECT.
2. COMPACTING SOIL IN THE PLANTING AREAS OR WETLAND AREAS TO BE PROTECTED SHALL BE AVOIDED, MINIMIZED AND MITIGATED.
3. PLANTS SHALL BE PLANTED IN A RANDOM INTERMIXED LAYOUT WITH TRIANGULAR SPACING AT THE SPACING INDICATED IN THE PLANTING SCHEDULE.
4. APPLY A 3" LAYER OF WOOD CHIPS MULCH TO PLANTING AREAS.
5. ANY DISCREPANCIES WITH THE PLANS AND/OR THE SPECS AND/OR THE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE KING COUNTY INSPECTOR PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. PROVIDE EROSION CONTROL AS NEEDED FOR STABILIZING THE PLANTED AREAS.
7. MEET AND MATCH EXISTING GRADES WITH SMOOTH TRANSITIONS.
8. WITHIN ALL DISTURBED AREAS TO BE PLANTED OR SEEDED, PROVIDE OR INSTALL TOPSOIL TYPE A TO THE DEPTH SPECIFIED. TOPSOIL SHALL BE CULTIVATED INTO THE SUBGRADE AS SPECIFIED.
9. INSTALL HIGH VISIBILITY FENCING AROUND WETLAND BUFFER ENHANCEMENT AREAS. FENCING IS TO REMAIN IN PLACE THROUGHOUT PLANT ESTABLISHMENT AND PERMIT MONITORING REQUIREMENTS.
10. PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR CONVENIENCE. CONTRACTOR IS RESPONSIBLE TO INSTALL PLANT MATERIAL QUANTITIES BASED ON THE SPACING LISTED. CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES PRIOR TO PURCHASING PLANT MATERIAL.
11. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT SHOWN TO BE REVEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDED AT A MINIMUM.

MERIDIAN
W.S.L.G.N.Z.

HORIZONTAL DATUM:
WASHINGTON STATE PLANE
NORTH ZONE NAD '83/91
BASED UPON KING COUNTY
SURVEY CONTROL.

VERTICAL DATUM:
NAVD 1988 BASED UPON KING
COUNTY SURVEY CONTROL



N.G.V.D. 88



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JOHN TAYLOR, DIRECTOR
**S 360th ST AND MILITARY RD S
ROUNDBOUT**

WETLAND IMPACTS AND MITIGATION

SHEET
60
OF
60
SHEETS

320-93 (60)