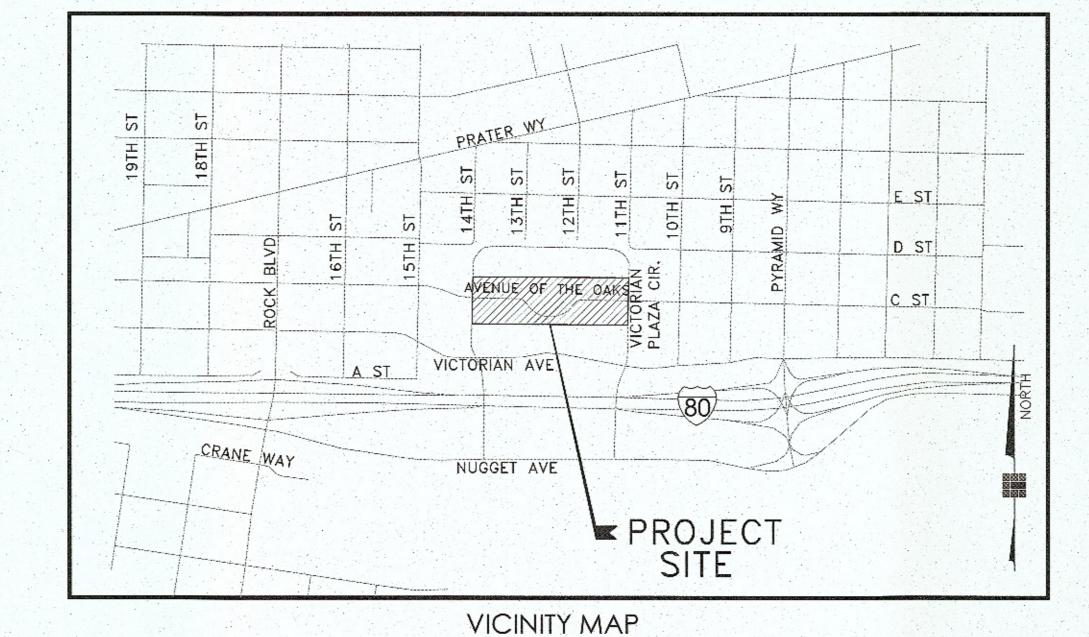
## CITY OF SPARKS

ED LAWSON, MAYOR KRISTOPHER DAHIR, COUNCIL MEMBER, WARD 5 NEIL C. KRUTZ, CITY MANAGER

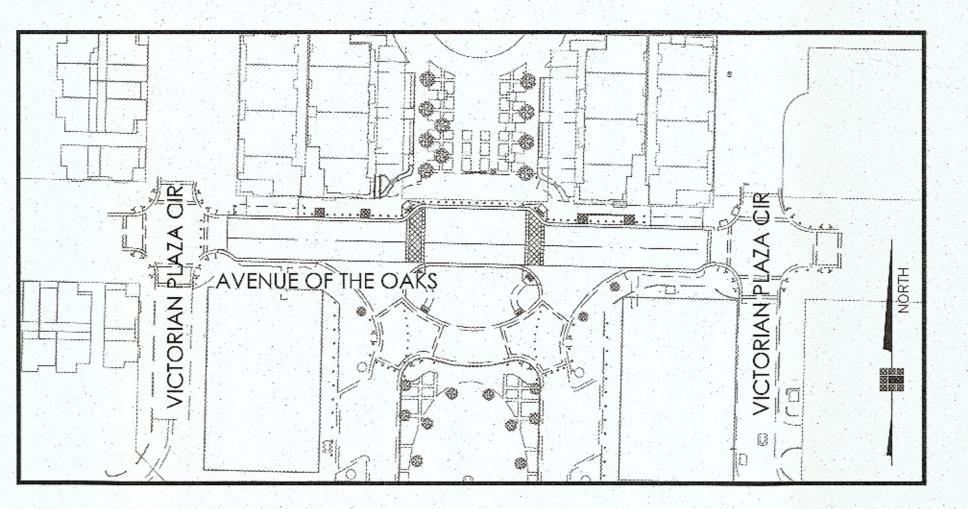
**ENGINEER** 

DOUGLAS BUCK, P.E.

CHRISTY CORPORATION DOUGLAS G. BUCK, P.E. 1000 KILEY PARKWAY SPARKS, NEVADA 89436 CONTACT: 775.502.8552 EXT.102



NOT TO SCALE



**LOCATION MAP** NOT TO SCALE

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2	N-1	NOTES AND LEGEND
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4	DM-2	DEMOLITION PLAN - EAST
-5	DM-3	DEMOLITION PLAN - FOUNTAIN
6	DM-4	DEMOLITION PLAN - FOUNTAIN
7	DM-5	DEMOLITION PLAN - FOUNTAIN
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.32	L-4	IRRIGATION DETAILS

Know what's below.

Call before you dig.



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DRAWING

REINFORCED CONCRETE BOX RCP REINFORCED CONCRETE PIPE PRC POINT OF REVERSE CURVATURE PUE PUBLIC UTILITY EASEMENT PVC

POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION PVT POINT OF VERTICAL TANGENT RCW RECLAIMED WATER

RIGHT RIM RIM ELEVATION RESTRAINED JOINT RW RIGHT OF WAY

SHT

STA

SOUTH SD STORM DRAIN SDDI STORM DRAIN DROP INLET SDMH STORM DRAIN MANHOLE

SANITARY SEWER EASEMENT SHEET STATION

SS SANITARY SEWER SSC0 SANITARY SEWER CLEANOUT SANITARY SEWER FORCEMAIN SSFM SSMH SANITARY SEWER MANHOLE

SW SIDEWALK TANGENT TOP BACK OF CURB ELEVATION

TYP TYPICAL TELEPHONE POLE TW TOP OF WALL VALLEY GUTTER WEST

WM WATER MAIN DELTA

EXISTING	PROPOSED	DESCRIPTION	
<b>©</b>	•	STORM DRAIN MANHOLE	
©	•	SANITARY SEWER MANHOLE	
12"D		STORM DRAIN LINE AND SIZE	
	-	CATCH BASIN	
	<b>6</b> "S	SANITARY SEWER LINE AND SIZE	
<b>- →</b>		STORM DRAIN MANHOLE SANITARY SEWER MANHOLE STORM DRAIN LINE AND SIZE CATCH BASIN SANITARY SEWER LINE AND SIZE SANITARY SEWER CLEAN OUT SANITARY SEWER LATERAL STATION SANITARY SEWER PUMP WATER LINE AND SIZE WATER LINE REDUCER WATER SERVICE RECLAIMED WATER IRRIGATION SERVICE WATER GATE VALVE FIRE HYDRANT AIR RELEASE VALVE FLUSH VALVE ASSEMBLY GAS, TELEPHONE OR ELECTRIC STREET LIGHT PROPERTY LINE TRAFFIC SIGN AS NOTED CHAIN LINK FENCE MONUMENT DRIVEWAY SIDEWALK RAMP SPOT ELEVATION WALL HEIGHTS TW=TOP OF WALL BW=BOTTOM OF WALL BW=BOTTOM OF WALL	
— 0+00 SS	0+00 SS	SANITARY SEWER LATERAL STATION	
	$\bigcirc$	SANITARY SEWER PUMP	
8 "W	8 "W	WATER LINE AND SIZE	
— <del>—</del> —	<b>——</b>	WATER LINE REDUCER	
		WATER SERVICE	
		RECLAIMED WATER IRRIGATION SERVICE	
		WATER GATE VALVE	
F	<u>-</u>	FIRE HYDRANT	
		AIR RELEASE VALVE	
		FLUSH VALVE ASSEMBLY	
— G—— E——	— G—T— E—	GAS, TELEPHONE OR ELECTRIC	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\bigcirc$	STREET LIGHT	
		PROPERTY LINE	
_O_		TRAFFIC SIGN AS NOTED	
X	X	CHAIN LINK FENCE	
<b>(</b>	<b>(a)</b>	MONUMENT	
		DRIVEWAY	
		SIDEWALK RAMP	
<sub>×</sub> 96.5	× 31.25	SPOT ELEVATION	
2.0 TW 44.6 BW 42.6	2.0 TW 44.6 BW 42.6	TW=TOP OF WALL	
	HEIGHT OF	WALL	

#### GRADING NOTES:

1. ADD 4400 TO ALL FINISHED GRADE ELEVATIONS IF LISTED WITH ONLY 2 SIGNIFICANT FIGURES.

2. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN ORDER FOR A DETERMINATION TO BE MADE.

3. ELEVATIONS SHOWN ARE TOP OF CURB WHEN LOCATED AT THE CURB LINE, OR FINISH GRADE (FINISHED SURFACE) WHEN LOCATED WITHIN THE PROJECT SITE UNLESS OTHERWISE NOTED.

4. FINISH GRADE REPRESENTS THE ELEVATION OF THE FINISHED SURFACE. IF LOCATED WITHIN THE PROJECT BOUNDARY, THE GRADE REPRESENTS THE FINAL SURFACE, IF TOP SOIL IS TO BE PLACED AS IN A LANDSCAPED AREA, THE CONTRACTOR SHALL ADJUST THE ROUGH GRADE SHOWN TO ACCOMMODATE THE ADDITIONAL SOIL OR FINAL PRODUCT. IF SHOWN AT CENTERLINE, THE GRADE REPRESENTS THE FINISHED SURFACE GRADE OF THE AC. IF SHOWN AT A BUILDING PAD, THE GRADE REPRESENTS THE FINISHED GRADE AROUND THE EXTERIOR OF THE BUILDING INCLUDING LANDSCAPING TREATMENTS.

5. CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING AROUND EXISTING UTILITIES AND EXISTING PAVEMENTS AND ROADS.

6. CONTRACTOR SHALL PROVIDE THE NECESSARY CONSTRUCTION DE-WATERING TO PROPERLY CONSTRUCT THE IMPROVEMENTS.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

8. THE INSPECTION AND TESTING OF SOILS AND MATERIALS SHALL BE COORDINATED WITH THE CITY OF SPARKS PRIOR TO COMMENCEMENT OF WORK. ALL REQUIREMENTS BY THE CITY OF SPARKS FOR INSPECTION AND TESTING SHALL BE FOLLOWED INCLUDING THE PREPARATION OF INSPECTION REPORTS.

9. BEDDING MATERIAL FOR PIPES SHALL CONSIST OF CLASS "A" BACKFILL, EXCEPT WHEN TRENCHES EXTEND BELOW THE WATER TABLE WHERE CLASS "C" BACKFILL SHALL BE PROVIDED. USE OF CLASS "C" BEDDING SHALL REQUIRE THE BEDDING ENVELOPE TO BE WRAPPED WITH GETOTEXTILE FABRIC, MIRAFI 180N OR APPROVED EQUAL.

10. ALL SITE WORK CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. THE SLUMP SHALL BE 1"-4" MAX. AIR ENTRAINMENT SHALL BE 6% ±1.5% AND A WATER-CEMENT RATIO MAXIMUM OF 0.45. MIX DESIGN SHALL CONFORM TO SSPWC SECTION 337. ALL CEMENT CONCRETE SHALL HAVE A COURSE AGGREGATE GRADATION CONFIRMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC

#### **GENERAL NOTES:**

1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES. AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES OR STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY OF SPARKS STANDARDS, THE STANDARDS SHALL APPLY AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.

2. ALL CONSTRUCTION, MATERIALS, AND TESTING SHALL CONFORM TO THE PROJECT MANUAL AND THE CITY OF SPARKS MUNICIPAL CODE, AND THE "ORANGE BOOK" KNOWN AS THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (2012 EDITION) ADOPTED BY THE CITY OF SPARKS AND DISTRIBUTED BY THE REGIONAL TRANSPORTATION COMMISSION LOCATED IN RENO, NEVADA. ALL DETAILS SHALL CONFORM TO THE "CITY OF SPARKS STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION".

3. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND CHRISTY CORPORATION HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR CHRISTY CORPORATION.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE GEOTECHNICAL INVESTIGATION PRIOR TO CONSTRUCTION. RESULTS OF THE GEOTECHNICAL INVESTIGATION ALONG WITH THE RECOMMENDATIONS SHALL BECOME PART OF THE SPECIFICATIONS, BUT DO NOT CONSTITUTE A GUARANTEE OF THE SUBSURFACE CONDITIONS.

5. THE CITY OF SPARKS SHALL PROVIDE A GEOTECHNICAL ENGINEER TO CONFIRM DEPTHS, COMPACTIONS, OVER-EXCAVATION, AND CONSTRUCTION METHODS FOR ALL PAVEMENT SECTIONS (PORTLAND CEMENT CONCRETE, CURB AND GUTTER, SIDEWALK, AGGREGATE BASE AND SUBGRADE), PAD GRADING, AND UTILITY TRENCH REQUIREMENTS. GEOTECHNICAL ENGINEER SHALL BE ONSITE FOR THE APPROPRIATE AMOUNT OF TIME (DETERMINED BY THE GEOTECHNICAL ENGINEER AND CITY OF SPARKS) DURING THE CONSTRUCTION PERIOD FOR COMPACTION TESTING, OBSERVATION, ETC.

6. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS, IN ORDER TO CONFORM WITH THE LATEST STATE AND COUNTY AIR POLLUTION REGULATIONS. THE CONTRACTOR SHALL HAVE A DUST CONTROL PLAN IN PLACE PRIOR TO BEGINNING WORK.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL CONSTRUCTION MATERIALS SPILLED ON PAVED STREETS, ONSITE AND OFFSITE.

8. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS, TO INSURE A TIMELY COMPLETION OF THE PROJECT.

9. THE CONTRACTOR SHALL NOTIFY ALL ENTITIES INVOLVED (PUBLIC AND PRIVATE) 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, AND PROVIDE 48 HOURS PRIOR NOTICE FOR ALL SURVEYING AND TESTING DURING CONSTRUCTION.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES AND CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND/OR COORDINATE WITH THE CITY OF SPARKS FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.

12. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL (SIGNING, BARRICADES, TRAFFIC DELINEATION, TEMPORARY STRIPING, ETC), AND SHALL MAINTAIN ACCESS TO ALL ADJACENT PARCELS; BUSINESSES AND RESIDENTS. THE CONTRACTOR SHALL CONFORM TO THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION'S "NEVADA WORK ZONE TRAFFIC CONTROL MANUAL" AND IN ACCORDANCE WITH WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND/OR PERMANENT PATCHING AS REQUIRED BY THE CITY OF SPARKS ORDINANCES AND POLICY STANDARDS. MAINTAIN PEDESTRIAN ACCESS TO BUSINESS AND RESIDENTS AT ALL TIMES. PROVIDE SIGNAGE FOR PEDESTRIAN ROUTE CLOSURES AND DETAILS AS REQUIRED.

13. ALL EXISTING UTILITY LOCATIONS, SIZES, AND DESCRIPTIONS AS SHOWN ON THESE DRAWINGS ARE FROM SURFACE OBSERVATIONS USED IN CONJUNCTION WITH AVAILABLE RECORDS, REFERENCE MAPS, DRAWINGS, AND WRITTEN OR VERBAL STATEMENTS SUPPLIED BY UTILITY COMPANIES, AND MAY NOT BE WHOLLY ACCURATE OR RELIABLE. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND CONTACT THE ENGINEER IF ANY DISCREPANCIES OCCUR.

14. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHICH MAY BE AFFECTED BY THE WORK TO OBTAIN ASSISTANCE IN THE LOCATION OF EXISTING MAINS AND SERVICE CONNECTIONS.

15. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (1-800-227-2600) A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

16. THE WORK IN THIS CONTRACT INCLUDES ALL ONSITE AND OFFSITE WORK SHOWN ON THESE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS. OR REASONABLY IMPLIED.

18. ALL DIMENSIONS AND DISTANCES ARE TO BACK OF CURB. CURB RETURN. FACE OF BUILDING. FACE OF WALL. FLOW LINE, PROPERTY LINE, CENTER OF STRIPING, CENTER LINE OF PIPE, OR END OF IMPROVEMENTS UNLESS OTHERWISE

19. THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROTECT FROM DAMAGE EXISTING IMPROVEMENTS ON AND AROUND THE SITE. INCLUDING, BUT NOT LIMITED TO. PAVEMENT, CURB & GUTTER, SIDEWALK, LANDSCAPING, SIGNAGE. STORM & SANITARY SEWERS, AND ALL UTILITIES.

20. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE REPAIR OF ANY IMPROVEMENTS (EXISTING OR PROPOSED) DAMAGED THROUGHOUT THE COURSE OF CONSTRUCTION.

21. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES EMERGENCY ACCESS TO THE PROJECT SITE TO THE SATISFACTION OF THE CITY OF SPARKS'S FIRE DEPARTMENT. COORDINATE STREET OR ACCESS CLOSURES WITH THE SPARKS FIRE PREVENTION BUREAU PRIOR TO ANY CLOSURE BY CONTACTING CHRIS MCCUBBINS, (775) 527-3715. CLOSURES SHALL BE COORDINATED TO INCLUDE A MAP, SCOPE OF CLOSURE, AND DATES. NO FIRE HYDRANT OUTAGES ARE PLANED. IF AN OUTAGE IS NECESSARY COORDINATE WITH SPARKS FIRE.

22. THE CONTRACTOR SHALL, UPON COMPLETION OF THE PROJECT, PREPARE AND SUBMIT TO THE CITY ENGINEER RECORD DRAWINGS INDICATING BY DIMENSION AND DESCRIPTION ANY FACILITY CONSTRUCTED CONTRARY TO THAT SHOWN ON THESE

23. ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND USED FOR PERMIT AND BOND PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE QUANTITIES FOR HIS BIDDING BUT SHALL DETERMINE THE QUANTITIES THAT HE DETERMINES ARE NECESSARY TO MEET THE MINIMUM REQUIREMENTS SHOWN HEREON THE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONDUCT THEIR OWN QUANTITY TAKE-OFFS FOR BIDDING AND CONSTRUCTION PURPOSES.

24. INSPECTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF SPARKS' REQUIREMENTS.

25. SHOULD AN OBVIOUS PROBLEM OR CONFLICT BE OBSERVED, THE ENGINEER SHALL BE INFORMED IMMEDIATELY, AND THE ENGINEER SHALL REQUIRE CORRECTIVE ACTION.

26. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED OR MATERIAL STORED ON CONCRETE OR ASPHALT SURFACES TO BE MAINTAINED BY THE CITY OF SPARKS UNLESS SPECIFICALLY IDENTIFIED ON THESE PLANS OR AS APPROVED IN WRITING BY THE CITY OF SPARKS.

27. CONTRACTOR SHALL PROVIDE WRITTEN AUTHORIZATION FOR ANY OFFSITE STAGING, STORAGE OR STOCKPILING LOCATIONS PRIOR TO THEIR USE.

28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION WATER AS NECESSARY FOR HIS OPERATIONS.

29. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY FACILITIES INCLUDING SITE PERIMETER SECURITY FENCING AND PORTABLE RESTROOMS AS NECESSARY FOR CONSTRUCTION.

#### **VECTOR CONTROL NOTES:**

1. THERE ARE NO PRIVATE CATCH BASINS, CHANNELS, RIPRAP SLOPES, OR ROCKERY WALLS ON THIS SITE.

2. THE CONTRACTOR SHALL ELIMINATE ALL MOSQUITO BREEDING PLACES WITHIN THE GRADED AREAS.

#### ARCHEOLOGICAL STATEMENT:

SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.

#### **CONSTRUCTION HOURS:**

THE CONTRACTOR SHALL LIMIT ALL CONSTRUCTION AND CONSTRUCTION—RELATED ACTIVITIES TO THE HOURS BETWEEN 7:00 A.M. THROUGH 7:00 P.M. MONDAY THROUGH FRIDAY AND 9:00 AM. THROUGH 5:00 P.M. ON SATURDAY ONLY. SIGNS INDICATING THESE HOURS SHALL BE POSTED CONSPICUOUSLY AT ALL ENTRANCES PRIOR TO THE START OF CONSTRUCTION AND REMAIN IN PLACE IN GOOD REPAIR UNTIL CONSTRUCTION IS COMPLETED TO THE APPROVAL OF THE SPARKS ADMINISTRATOR

#### GEOTECHNICAL NOTE

THE CONTRACTOR SHALL BE FAMILIAR WITH THE GEOTECHNICAL INVESTIGATION PREPARED FOR THE SITE BY BLACK EAGLE CONSULTING, INC., TITLED AVENUE OF THE OAKS REALIGNMENT, PROJECT NUMBER 1651-06-01. DATED APRIL 28, 2020. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS IN THE REPORT.

#### BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS NEVADA STATE PLANE, WEST ZONE NAD83(94) BASED ON REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS UTILIZING CORRECTIONS FROM THE NORTHERN NEVADA COOPERATIVE REAL TIME NETWORK. COORDINATES AND DISTANCES HEREON ARE AT GROUND LEVEL BASED ON A COMBINED GRID TO GROUND FACTOR OF 1.000197939.

#### BASIS OF ELEVATIONS

THE BASIS OF ELEVATIONS FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED UPON CITY OF THE CITY OF SPARKS BENCHMARK SYSTEM AND INITIAL SURVEY DATA PROVIDED BY TRI STATE SURVEYING.

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DRAWING

SHEET 2 OF 32

LIMITS OF PAVER SIDEWALK REMOVAL

LIMITS OF PORTLAND CEMENT REMOVAL

LIMITS OF STAMPED CONCRETE (FOUNTAIN)

■ ■ APPROXIMATE LIMITS OF DEMOLITION

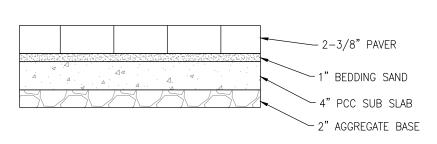
ASPHALT REMOVAL AREA

#### GENERAL NOTES:

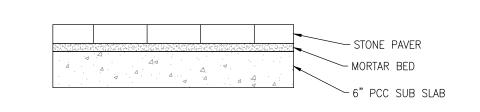
- 1. REMOVE AND DISPOSE OF EXISTING FREE STANDING PLANTER BOXES AT START OF WORK.
- 2. COORDINATE ACCESS TO AND CLOSURES OF ROADWAY DURING CONSTRUCTION WITH SPARKS FIRE DEPARTMENT AND ADJACENT PROPERTY OWNERS AS REQUIRED. MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. SEE NOTES SHEET N1.
- 3. ALL EXISTING FIRE HYDRANTS SHALL BE ACCESSIBLE AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.
- 4. THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED
- 5. PRIOR TO COMMENCEMENT OF DEMOLITION WORK AND AFTER MARKING CONSTRUCTION LIMITS IN FIELD, CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. TO VERIFY EXTENT OF IRRIGATION SYSTEM (INCLUDING MAINLINES) TO BE DEMOLISHED, MODIFIED, AND/OR TO REMAIN. FIELD TESTING OF EXISTING IRRIGATION MAY BE REQUIRED TO IDENTIFY BOUNDARY OF IRRIGATION AREA OF EACH EXISTING VALVES AND STATIONS.
- PROTECT AND PRESERVE EXISTING TREES & IRRIGATION TO REMAIN FROM CONSTRUCTION. REPAIR OR REPLACE TREES & IRRIGATION COMPONENTS DAMAGED FROM CONSTRUCTION.
- 7. CONTRACTOR TO COORDINATE WITH OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. TO DETERMINE IRRIGATION COMPONENTS INCLUDING BUT NOT LIMITED TO VALVE BOXES, VALVES, SPRINKLER HEADS TO BE SALVAGED FROM DEMOLITION AREA. REMOVE AND DISCARD OFF SITE PROPERLY ALL UNSALVAGED EXPOSED & ABOVE GRADE EXISTING IRRIGATION COMPONENTS.
- 9. RE-ROUTING, MODIFICATION &/OR REPAIRS TO EXISTING IRRIGATION FOR PRESERVED LANDSCAPE AREAS OUTSIDE OF CONSTRUCTION LIMITS MAY BE REQUIRED & SHALL BE COORDINATED W/ OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. IF REQUIRED, EXISTING MAINLINE & IRRIGATION COMPONENTS THAT CONFLICT WITH PROPOSED FACILITIES SHALL BE RELOCATED AS REQUIRED.

- 10. CHRISTY CORPORATION WILL NOT BE RESPONSIBLE FOR ANY ACTUAL, UNFORSEEN, OR PERCEIVED DAMAGES OR DELAY DUE TO EXISTING IRRIGATION SYSTEM LAYOUT DIFFERENCES FROM THIS PLAN.
- 11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS AS REQUIRED DURING DEMOLITION AND CONSTRUCTION INCLUDING PEDESTRIAN CROSSWALK CLOSURES AND ADVANCED PEDESTRIAN CROSSWALK CLOSURE NOTIFICATION. WITH DETOURS.
- 12. REMOVE EXISTING WASTE CANS AND STORE DURING CONSTRUCTION. REPLACE PER CITY STAFF UPON COMPLETION (4EA.).
- 13. PCC SLABS WITHIN THE CENTER OF THE FOUNTAIN AREA MAY BE REINFORCED, BASED ON AS-BUILT PLANS.
- 14. ALL "DEMO" ITEMS ARE REMOVAL AND DISPOSAL, NOT ABANDON IN PLACE.
- 15. REFERENCE SHEETS U-1 AND U-2 FOR NEW UTILITY LOCATIONS AND TIE IN POINTS.

#### TYPICAL EXISTING PAVER SECTION



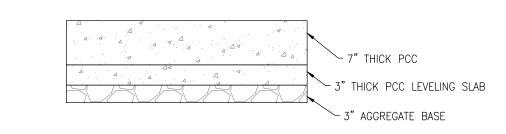
#### TYPICAL EXISTING FOUNTAIN STONE PAVER SECTION



PROTECT IN PLACE:

EX. SDMH AND SDDI TO REMAIN

#### TYPICAL EXISTING FOUNTAIN PCC SECTION



# **DEMOLITION NOTES:**

SCALE: H:1"=10'

. EXISTING BOLLARDS, LIGHTED BOLLARDS, AND LIGHTS TO BE REMOVED AND SALVAGED. TRANSPORT TO SALVAGE SITE. TYPICAL ALL WITHIN PROJECT LIMITS.

Know what's **below**.

Call before you dig.

- 2. REMOVE EXISTING CONCRETE SIDEWALK AND COMMERCIAL DRIVEWAY TO THE LIMITS SHOWN. PROTECT ALL EXISTING IMPROVEMENTS TO REMAIN.
- 5. EXISTING TREES AND TREE GRATES TO BE REMOVED AND TRANSPORTED TO SALVAGE SITE. COORDINATE WITH PARKS DEPARTMENT.
- 4. PROTECT IN PLACE: EXISTING CURB, SIDEWALK, PAVEMENTS TO REMAIN.
- PROTECT IN PLACE: EXISTING ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND VAULTS. 6. SAWCUT AND REMOVE EXISTING A.C. AND P.C.C. PAVEMENTS; CURB, GUTTER, AND SIDEWALK;
- EXISTING LANDSCAPE, SHRUBS, TREES TO THE LIMIT OF DEMOLITION SHOWN.
- 7. PROTECT EXISTING UTILITY BOX, TO REMAIN. TYPICAL EACH LOCATION.
- 8. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN (TYP.).
- 9. REMOVE AND DISPOSE OF STORM DRAIN DROP INLET AND STORM DRAIN PIPING TO MAIN. 10. REMOVE EXISTING FOUNTAIN AND ASSOCIATED VAULT PER SUBSEQUENT DEMOLITION SHEETS
- (DM-3 THROUGH DM-5).
- 12. REMOVE AND DISPOSE OF EXISTING DUAL LIGHT POLE WITH SPEAKERS (4 EA.). REMOVE BASE TO FOUR FEET BELOW GRADE MINIMUM.
- 13. REMOVE AND DISPOSE OF EXISTING VENT AND DRAIN LINES AND STRUCTURES.
- 14. RELOCATE EXISTING IRRIGATION CONTROL WIRES (CURRENTLY ROUTED THROUGH VAULT) PER LANDSCAPE PLANS.
- 15. PROTECT IN PLACE: EXISTING PEDESTRIAN RAMP AND TRUNCATED DOMES TO REMAIN.
- 16. PROTECT IN PLACE: EXISTING TREE. 17. RESET TO NEW GRADE: EXISTING MANHOLE COVERS, INLETS, CLEANOUTS, VALVE BOXES, ETC.
- 18. REMOVE EXISTING UNDERGROUND ELECTRIC/BOX/IRRIGATION.
- 19. REMOVE EXISTING ELECTRIC OR IRRIGATION CONTROL BOX AND REPLACE WITH H20 TRAFFIC
- 20. EXISTING PAVERS TO BE REMOVED AND DISPOSED OF. NO REUSE.
- 21. REMOVE AND DISPOSE OF 3'x3' REINFORCED CAST STONE PEDESTAL AND PCC FOOTING. 5'-6" TOTAL HEIGHT.
- 22. SALVAGE "VICTORIAN SQUARE" MANHOLE COVER AND TRANSPORT TO SALVAGE SITE.
- 23. REMOVE SEWER LATERAL FROM VAULT TO 3' FROM MAIN. CAP 3' FROM MAIN. REF. DEEP SEWER, SHEET P-1.
- 24. REMOVE EXISTING ABANDONED WATER MAIN AS NECESSARY FOR CONSTRUCTION. GROUT FILL WHERE POSSIBLE. ABANDONED GAS MAY ALSO BE PRESENT. REMOVE AS NECESSARY FOR CONSTRUCTION. GROUT TO EXTENT PRACTICAL.
- 25. PROTECT IN PLACE: EXISTING PLAZA TAPERED CURB.
- 26. EXISTING LIGHT TO BE REMOVED AND TRANSPORTED TO SALVAGE SITE. FOUNDATION/BASE TO BE REMOVED IN ENTIRETY.
- 27. EXISTING TERRA COTTA FIBER OPTIC DUCT BANK TO BE REMOVED WITHIN FULL DEMOLITION LIMITS FOLLOWING AT&T RELOCATION. AT&T RELOCATION WORK IS ANTICIPATED TO BE COMPLETE PRIOR TO START OF WORK.
- 28. EXISTING TRANSFORMER AND NV ENERGY CONDUIT BANK, PROTECT IN PLACE.
- 29. PROTECT EX. SEWER INTERCEPTOR IN PLACE.
- 30. PROTECT EX. STORM DRAIN IN PLACE.
- 31. DEMO/REMOVE EXISTING 4" PIPE NV ENERGY GAS UPON COMPLETION OF NEW GAS.
- 32. DEMO/REMOVE 2" GAS SERVICE UPON COMPLETION OF NEW GAS. EXISTING MAIN TO NEW
- 33. ELECTRIC PEDESTAL TO BE REMOVED.
- 34. PROTECT EXISTING SIGNAGE IN PLACE.
- 35. ASPHALT DEMOLITION SAWCUT TO NEAT LINES.

#### GAS ORDER OF WORK

- 1. CONTRACTOR TO PROVIDE GAS TRENCH, AND BEDDING FOR NV ENERGY INSTALLATION CREW. 2. NV ENERGY TO CONSTRUCT NEW GAS MAIN.
- 3. NV ENERGY TO TIE GAS SERVICES OVER FROM EXISTING MAIN TO NEW MAIN.
- 4. CONTRACTOR TO COMPLETE BEDDING AND BACKFILL.
- 5. CONTRACTOR TO SUPPORT NV ENERGY AS REQUIRED DURING NV ENERGY TIE INS.
- 6. CONTRACTOR TO REMOVE EXISTING GAS MAIN AND SERVICES NO LONGER IN USE.
- 7. CONTRACTOR TO BE CERTIFIED AS REQUIRED BY NV ENERGY AND SHALL COORDINATE WITH UTILITY AS REQUIRED.

# SALVAGE SITE

SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY OF SPARKS DENITRIFICATION PLANT: 701 E. NUGGET AVE, SPARKS, NV 89431

SHEET 3 OF 32

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herein are protected under USC

copyright Title 17 Unauthorized

esigned by:

Checked by:

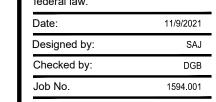
Job No.

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11/9/2021

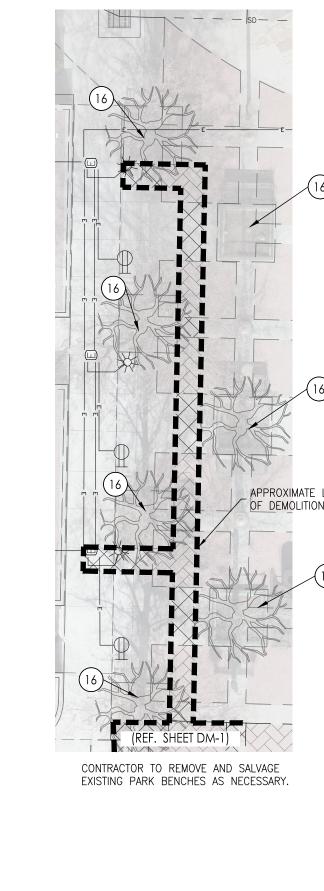
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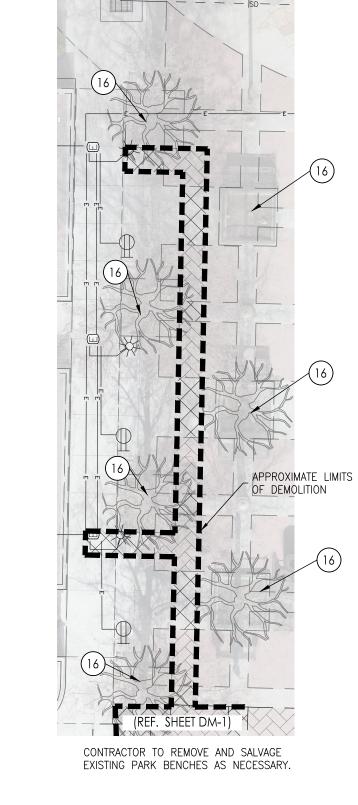
1594.001



SALVAGE SITE

DENITRIFICATION PLANT:





## LEGEND

PROTECT IN PLACE:

LIMITS OF PAVER SIDEWALK REMOVAL

PROTECT IN PLACE:

SURVEY MONUMENT

LIMITS OF STAMPED CONCRETE (FOUNTAIN)

LIMITS OF PORTLAND CEMENT REMOVAL

■ ■ APPROXIMATE LIMITS OF DEMOLITION

ASPHALT REMOVAL AREA

#### **GENERAL NOTES:**

EX. CONCRETE RAMP/STEPS (TO REMAIN, PROTECT)

CHUY'S

OF DEMOLITION

A.P.N. 032-372-10

1. REMOVE AND DISPOSE OF EXISTING FREE STANDING PLANTER BOXES AT START OF WORK.

APPROXIMATE LIMITS

OF DEMOLITION

EX. TAPERED CURB (TO REMAIN)

2. COORDINATE ACCESS TO AND CLOSURES OF ROADWAY DURING CONSTRUCTION WITH SPARKS FIRE DEPARTMENT AND ADJACENT PROPERTY OWNERS AS REQUIRED. MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES. SEE NOTES SHEET N1.

3. ALL EXISTING FIRE HYDRANTS SHALL BE ACCESSIBLE AND OPERABLE AT ALL TIMES DURING CONSTRUCTION. 4. THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE

DRIVEWAYS TO JOINT.

PROVIDE TEMPORARY ACCESS AT ALL TIMES.

RESIDENTIAL/BUSINESS PARKING ACCESS

A.P.N. 032-372-09

A.P.N. 031-341-27

ACCESS

PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED

5. PRIOR TO COMMENCEMENT OF DEMOLITION WORK AND AFTER MARKING CONSTRUCTION LIMITS IN FIELD, CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. TO VERIFY EXTENT OF IRRIGATION SYSTEM (INCLUDING MAINLINES) TO BE DEMOLISHED, MODIFIED, AND/OR TO REMAIN. FIELD TESTING OF EXISTING IRRIGATION MAY BE REQUIRED TO IDENTIFY BOUNDARY OF IRRIGATION AREA OF EACH EXISTING VALVES AND STATIONS.

6. PROTECT AND PRESERVE EXISTING TREES & IRRIGATION TO REMAIN FROM CONSTRUCTION. REPAIR OR REPLACE TREES & IRRIGATION COMPONENTS DAMAGED FROM CONSTRUCTION.

7. CONTRACTOR TO COORDINATE WITH OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. TO DETERMINE IRRIGATION COMPONENTS INCLUDING BUT NOT LIMITED TO VALVE BOXES, VALVES, SPRINKLER HEADS TO BE SALVAGED FROM DEMOLITION AREA. REMOVE AND DISCARD OFF SITE PROPERLY ALL UNSALVAGED EXPOSED & ABOVE GRADE EXISTING IRRIGATION COMPONENTS.

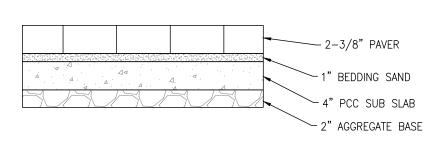
9. RE-ROUTING, MODIFICATION &/OR REPAIRS TO EXISTING IRRIGATION FOR PRESERVED LANDSCAPE AREAS OUTSIDE OF CONSTRUCTION LIMITS MAY BE REQUIRED & SHALL BE COORDINATED W/ OWNER REPRESENTATIVE & CITY OF SPARKS PARKS DEPT. IF REQUIRED, EXISTING MAINLINE & IRRIGATION COMPONENTS THAT CONFLICT WITH PROPOSED FACILITIES SHALL BE RELOCATED AS REQUIRED.

- 10. CHRISTY CORPORATION WILL NOT BE RESPONSIBLE FOR ANY ACTUAL, UNFORSEEN, OR PERCEIVED DAMAGES OR DELAY DUE TO EXISTING IRRIGATION SYSTEM LAYOUT DIFFERENCES FROM THIS PLAN.
- 11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS AS REQUIRED DURING DEMOLITION AND CONSTRUCTION INCLUDING PEDESTRIAN CROSSWALK CLOSURES AND ADVANCED PEDESTRIAN CROSSWALK CLOSURE NOTIFICATION. WITH DETOURS.
- 12. REMOVE EXISTING WASTE CANS AND STORE DURING CONSTRUCTION. REPLACE PER CITY STAFF UPON COMPLETION (4EA.).
- 13. PCC SLABS WITHIN THE CENTER OF THE FOUNTAIN AREA MAY BE REINFORCED, BASED ON AS-BUILT PLANS.
- 14. ALL "DEMO" ITEMS ARE REMOVAL AND DISPOSAL, NOT ABANDON IN PLACE.

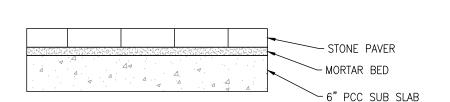
(PROTECT IN PLACE)

15. REFERENCE SHEETS U-1 AND U-2 FOR NEW UTILITY LOCATIONS AND TIE IN POINTS.

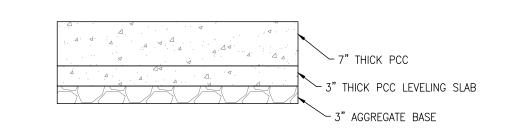
# TYPICAL EXISTING PAVER SECTION



#### TYPICAL EXISTING FOUNTAIN STONE PAVER SECTION



#### TYPICAL EXISTING FOUNTAIN PCC SECTION



# 5. PROTECT IN PLACE: EXISTING ELECTRICAL AND COMMUNICATIONS EQUIPMENT AND VAULTS.

COORDINATE WITH PARKS DEPARTMENT.

**DEMOLITION NOTES:** 

PROTECT ALL EXISTING IMPROVEMENTS TO REMAIN.

6. SAWCUT AND REMOVE EXISTING A.C. AND P.C.C. PAVEMENTS; CURB, GUTTER, AND SIDEWALK; EXISTING LANDSCAPE, SHRUBS, TREES TO THE LIMIT OF DEMOLITION SHOWN. 7. PROTECT EXISTING UTILITY BOX, TO REMAIN. TYPICAL EACH LOCATION.

1. EXISTING BOLLARDS, LIGHTED BOLLARDS, AND LIGHTS TO BE REMOVED AND SALVAGED.

2. REMOVE EXISTING CONCRETE SIDEWALK AND COMMERCIAL DRIVEWAY TO THE LIMITS SHOWN.

3. EXISTING TREES AND TREE GRATES TO BE REMOVED AND TRANSPORTED TO SALVAGE SITE.

TRANSPORT TO SALVAGE SITE. TYPICAL ALL WITHIN PROJECT LIMITS.

8. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN (TYP.).

4. PROTECT IN PLACE: EXISTING CURB, SIDEWALK, PAVEMENTS TO REMAIN.

9. REMOVE AND DISPOSE OF STORM DRAIN DROP INLET AND STORM DRAIN PIPING TO MAIN. 10. REMOVE EXISTING FOUNTAIN AND ASSOCIATED VAULT PER SUBSEQUENT DEMOLITION SHEETS (DM-3 THROUGH DM-5).

12. REMOVE AND DISPOSE OF EXISTING DUAL LIGHT POLE WITH SPEAKERS (4 EA.). REMOVE BASE TO FOUR FEET BELOW GRADE MINIMUM.

13. REMOVE AND DISPOSE OF EXISTING VENT AND DRAIN LINES AND STRUCTURES. 14. RELOCATE EXISTING IRRIGATION CONTROL WIRES (CURRENTLY ROUTED THROUGH VAULT) PER

LANDSCAPE PLANS. 15. PROTECT IN PLACE: EXISTING PEDESTRIAN RAMP AND TRUNCATED DOMES TO REMAIN.

16. PROTECT IN PLACE: EXISTING TREE. 17. RESET TO NEW GRADE: EXISTING MANHOLE COVERS, INLETS, CLEANOUTS, VALVE BOXES, ETC.

18. REMOVE EXISTING UNDERGROUND ELECTRIC/BOX/IRRIGATION. 19. REMOVE EXISTING ELECTRIC OR IRRIGATION CONTROL BOX AND REPLACE WITH H20 TRAFFIC

20. EXISTING PAVERS TO BE REMOVED AND DISPOSED OF. NO REUSE.

21. REMOVE AND DISPOSE OF 3'x3' REINFORCED CAST STONE PEDESTAL AND PCC FOOTING. 5'-6" TOTAL HEIGHT.

22. SALVAGE "VICTORIAN SQUARE" MANHOLE COVER AND TRANSPORT TO SALVAGE SITE.

23. REMOVE SEWER LATERAL FROM VAULT TO 3' FROM MAIN. CAP 3' FROM MAIN. REF. DEEP SEWER, SHEET P-1. 24. REMOVE EXISTING ABANDONED WATER MAIN AS NECESSARY FOR CONSTRUCTION. GROUT FILL

WHERE POSSIBLE. ABANDONED GAS MAY ALSO BE PRESENT. REMOVE AS NECESSARY FOR CONSTRUCTION. GROUT TO EXTENT PRACTICAL.

25. PROTECT IN PLACE: EXISTING PLAZA TAPERED CURB.

26. EXISTING LIGHT TO BE REMOVED AND TRANSPORTED TO SALVAGE SITE. FOUNDATION/BASE TO BE REMOVED IN ENTIRETY.

27. EXISTING TERRA COTTA FIBER OPTIC DUCT BANK TO BE REMOVED WITHIN FULL DEMOLITION

LIMITS FOLLOWING AT&T RELOCATION. AT&T RELOCATION WORK IS ANTICIPATED TO BE COMPLETE PRIOR TO START OF WORK.

28. EXISTING TRANSFORMER AND NV ENERGY CONDUIT BANK, PROTECT IN PLACE.

29. PROTECT EX. SEWER INTERCEPTOR IN PLACE.

30. PROTECT EX. STORM DRAIN IN PLACE.

31. DEMO/REMOVE EXISTING 4" PIPE NV ENERGY GAS UPON COMPLETION OF NEW GAS. 32. DEMO/REMOVE 2" GAS SERVICE UPON COMPLETION OF NEW GAS. EXISTING MAIN TO NEW

33. ELECTRIC PEDESTAL TO BE REMOVED.

34. PROTECT EXISTING SIGNAGE IN PLACE.

35. ASPHALT DEMOLITION - SAWCUT TO NEAT LINES.

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3. NV ENERGY TO TIE GAS SERVICES OVER FROM EXISTING MAIN TO NEW MAIN.

4. CONTRACTOR TO COMPLETE BEDDING AND BACKFILL.

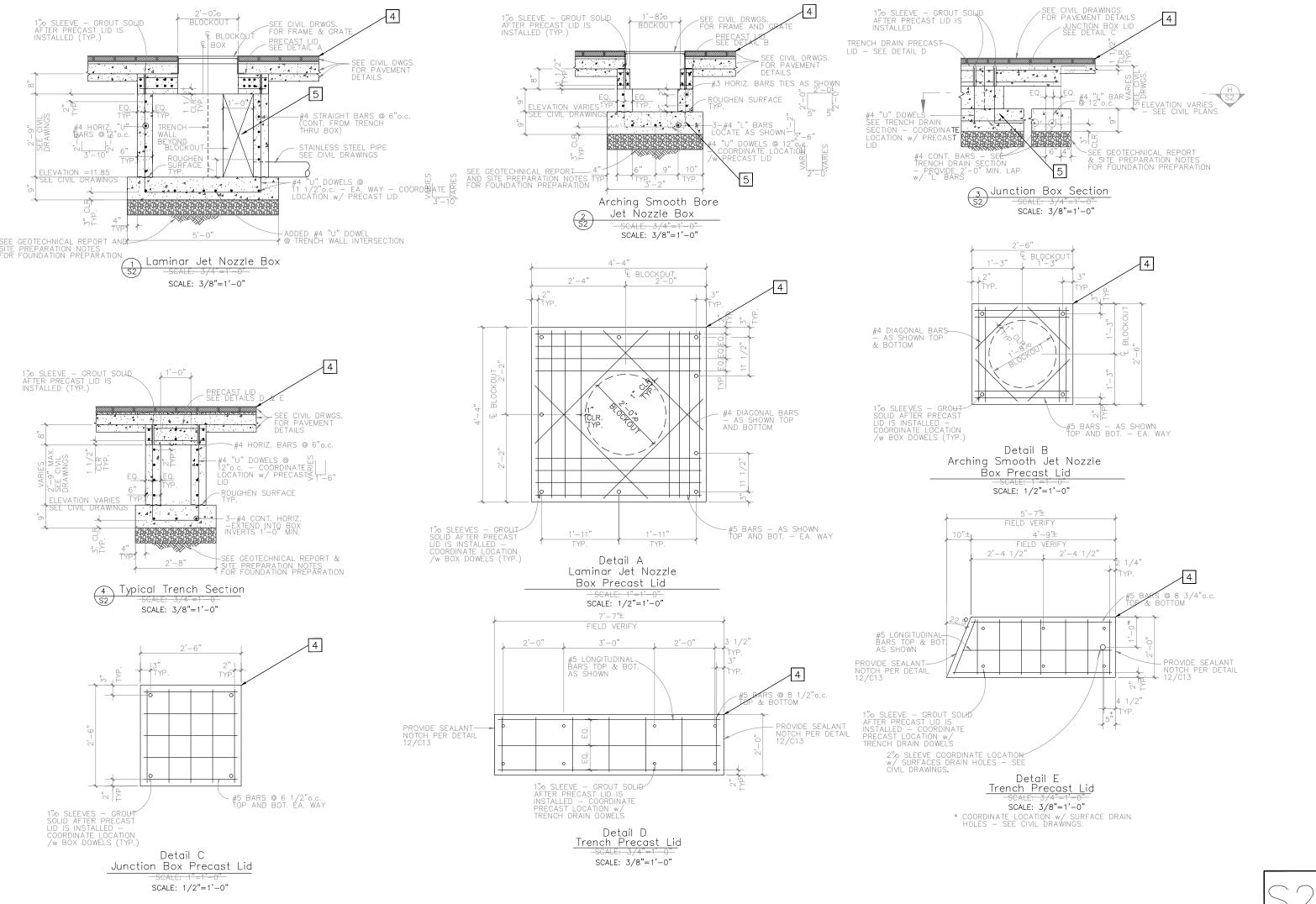
5. CONTRACTOR TO SUPPORT NV ENERGY AS REQUIRED DURING NV ENERGY TIE INS.

6. CONTRACTOR TO REMOVE EXISTING GAS MAIN AND SERVICES NO LONGER IN USE.

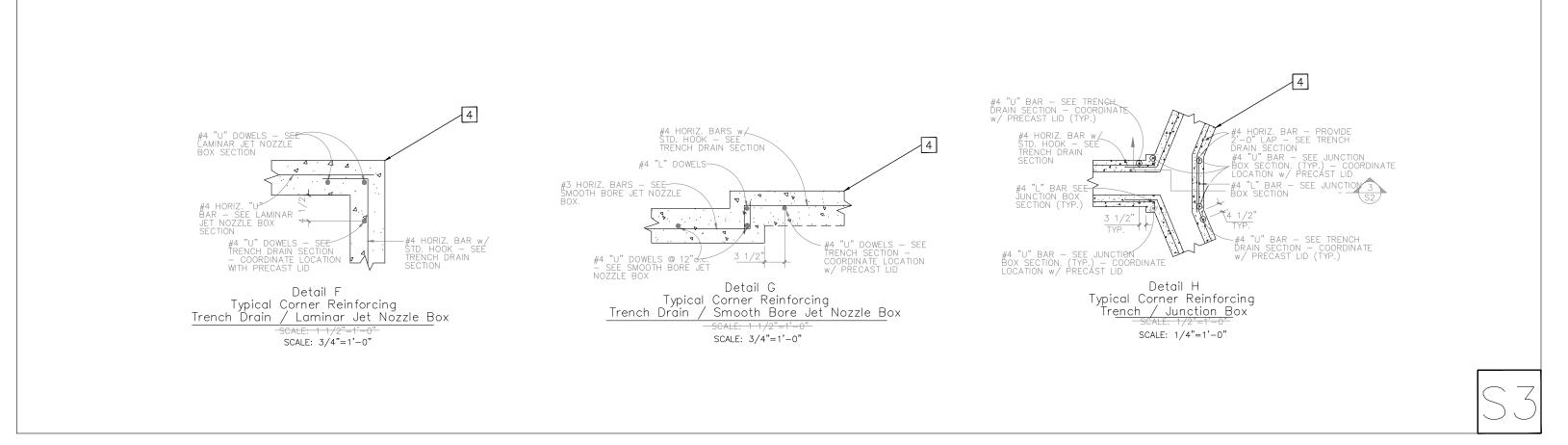
7. CONTRACTOR TO BE CERTIFIED AS REQUIRED BY NV ENERGY AND SHALL COORDINATE WITH UTILITY AS REQUIRED.

SALVAGED MATERIALS SHALL BE DELIVERED TO THE CITY OF SPARKS 701 E. NUGGET AVE, SPARKS, NV 89431

SHEET 4 OF 32



SCALE REDUCED BY HALF



SCALE REDUCED BY HALF

# **LEGEND**

FIBER OPTIC: REMOVE TERRA COTTA DUCT BANK WITHIN PROJECT LIMITS

DETAIL C

Fountain Basin / Trench Foundation Plan SCALE: 1/8"=1'-0" NOTES: 1.) SEE SHEETS S2 AND S3 FOR TRENCH AND BOX

1. Concrete: f'c = 5000 psi @ 28 days 2. Reinforcing Steel: ASTM A615, Grade 60

DETAIL E (REVERSE) TYP.

SCALE REDUCED BY HALF

DETAIL E

DETAILS. 2.) Materials

- 18" STORM DRAIN: PROTECT IN PLACE
- REMOVE PER SHEET DM-4
- COMPLETE REMOVAL BY CONTRACTOR
- ACTUAL FIELD CONDITIONS OF JET BOXES WILL VARY, BOXES INSTALLED WERE PRECAST CONCRETE AND CONNECTED WITH SCHEDULE 80 PVC. REMOVE & DISPOSE OF THE JET BOXES AND SCHEDULE 80 PVC
- SEWER INTERCEPTOR: PROTECT IN PLACE
- CORE 2" DIAMETER HOLES IN PIT BOTTOM AT 3' SPACING EACH WAY IN BOTTOM OF VAULTS EXCEPT IN BENCH ENCASING STORM DRAIN. FILL VAULT WITH 6" DEPTH CLASS D DRAIN ROCK, COVER DRAIN ROCK WITH MIRAFI 180N GEOTEXTILE, BACKFILL WITH TYPE 2 CLASS B AGGREGATE BASE TO PROPOSED CONCRETE STREET SECTION. COMPACT BASE MATERIAL TO 95% M.D.D.

ALL ITEMS SHOWN ARE PER 1998 CONSTRUCTION PLANS AND INTEGRATED FOR CONTRACTOR'S BENEFIT IN PLANNING AND PRICING DEMOLITION

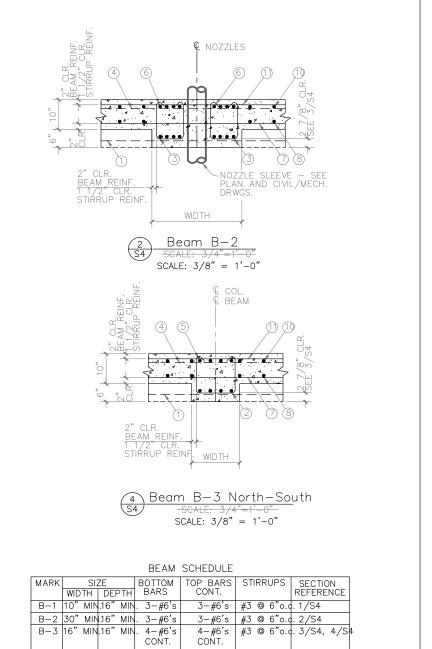
- ARCHING SMOOTH BORE JET NOZZLE BOX, TYP.

\_\_\_ EXISTING SS MAIN

CIVIL IMPROVEMENT FAVENUE OF THE DEMOLITION PLAN - FO

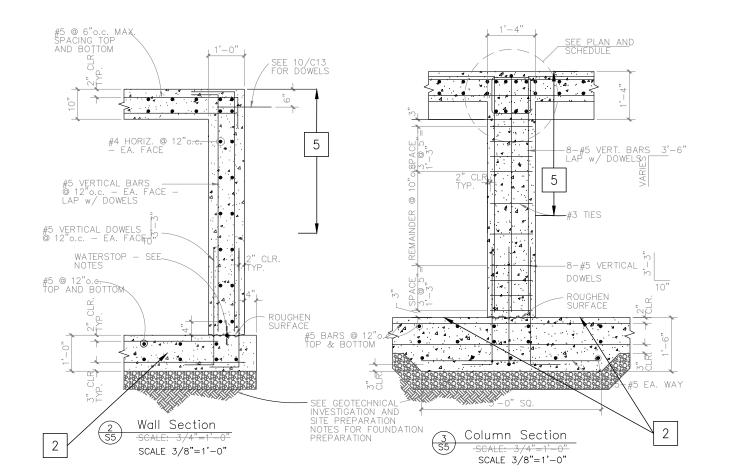
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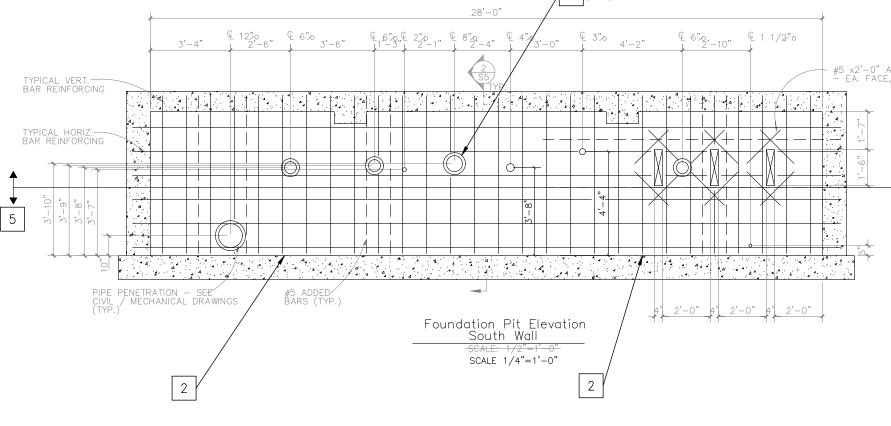
Designed by: KTM Checked by: Job No.

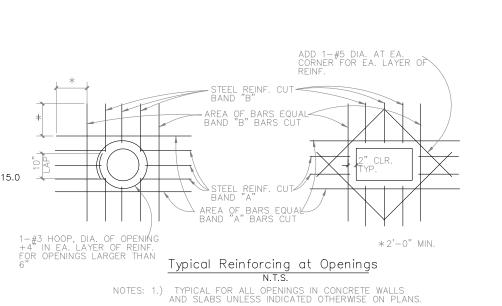


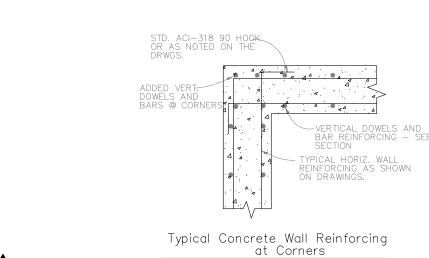


SCALE REDUCED BY HALF









5 ——NO CORING ——<del>-</del> Foundation Pit Elevation
-SCALE: 1/2"=1"-0"

Typical Concrete Wall Reinforcing at Corners
N.T.S.

SCALE REDUCED BY HALF

# **LEGEND**

- 1 REMOVE COMPLETE PIT TOP SLAB
- CORE 2" DIAMETER HOLES IN PIT BOTTOM AT 3' SPACING EACH WAY EXCEPT IN BENCH ENCASING STORM DRAIN. FILL VAULT WITH 6" DEPTH CLASS D DRAIN ROCK, COVER DRAIN ROCK WITH MIRAFI 180N GEOTEXTILE, BACKFILL WITH TYPE 2 CLASS B AGGREGATE BASE TO PROPOSED CONCRETE STREET SECTION. COMPACT BASE MATERIAL TO 95% M.D.D.
- PROTECT 18" STORM DRAIN IN PLACE
- 4 REMOVE AND DISPOSE OF COMPLETE ROOF SLAB
- 5 4' MINIMUM REMOVAL DEPTH
- 6 FIBER OPTIC: REMOVE TERRA COTTA DUCT BANK WITHIN PROJECT LIMITS
- 7 REMOVE SLAB BEAMS IN ENTIRETY (TYP.)
- NOTE: ELEVATIONS FROM ORIGINAL PLANS ARE REFERENCED FROM OLD DATUM. USE FOR REFERENCE ONLY.
- REMOVE ALL PENETRATING PIPE EXCEPT THE STORM DRAIN TO REMAIN. SEAL PIPE PENETRATIONS IN WALL WITH NON-SHRINK GROUT
- ALL PIPING, CONDUIT, ELECTRICAL EQUIPMENT, PUMPS, AND MISCELLANEOUS ITEMS SHALL BE REMOVED & PROPERLY DISPOSED OF.

ALL ITEMS SHOWN ARE PER 1998 CONSTRUCTION PLANS AND INTEGRATED FOR CONTRACTOR'S BENEFIT IN PLANNING AND PRICING DEMOLITION

CIVIL IMPROVEMENT FAVENUE OF THE DEMOLITION PLAN - FO

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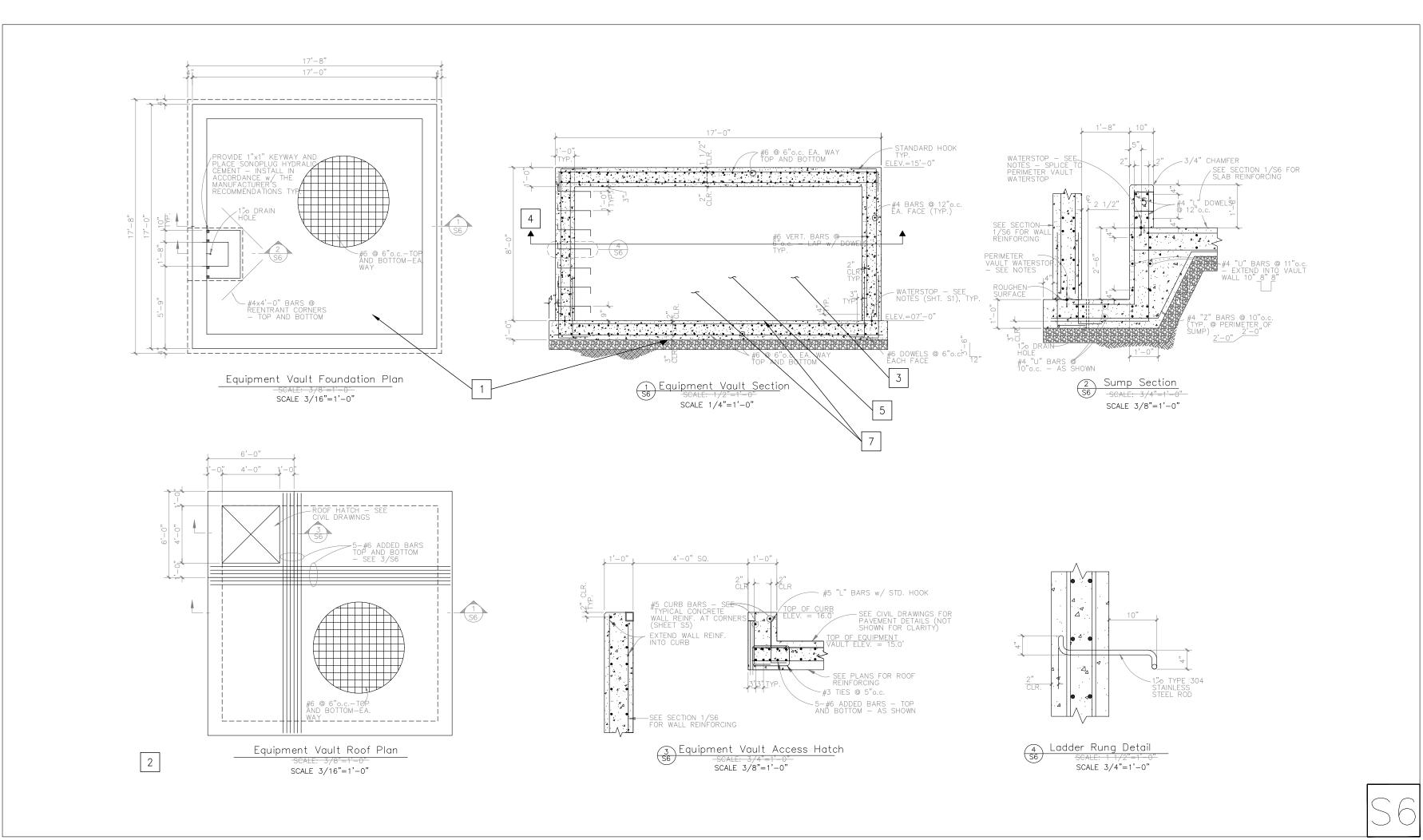
Know what's below.
Call before you dig.

KTM

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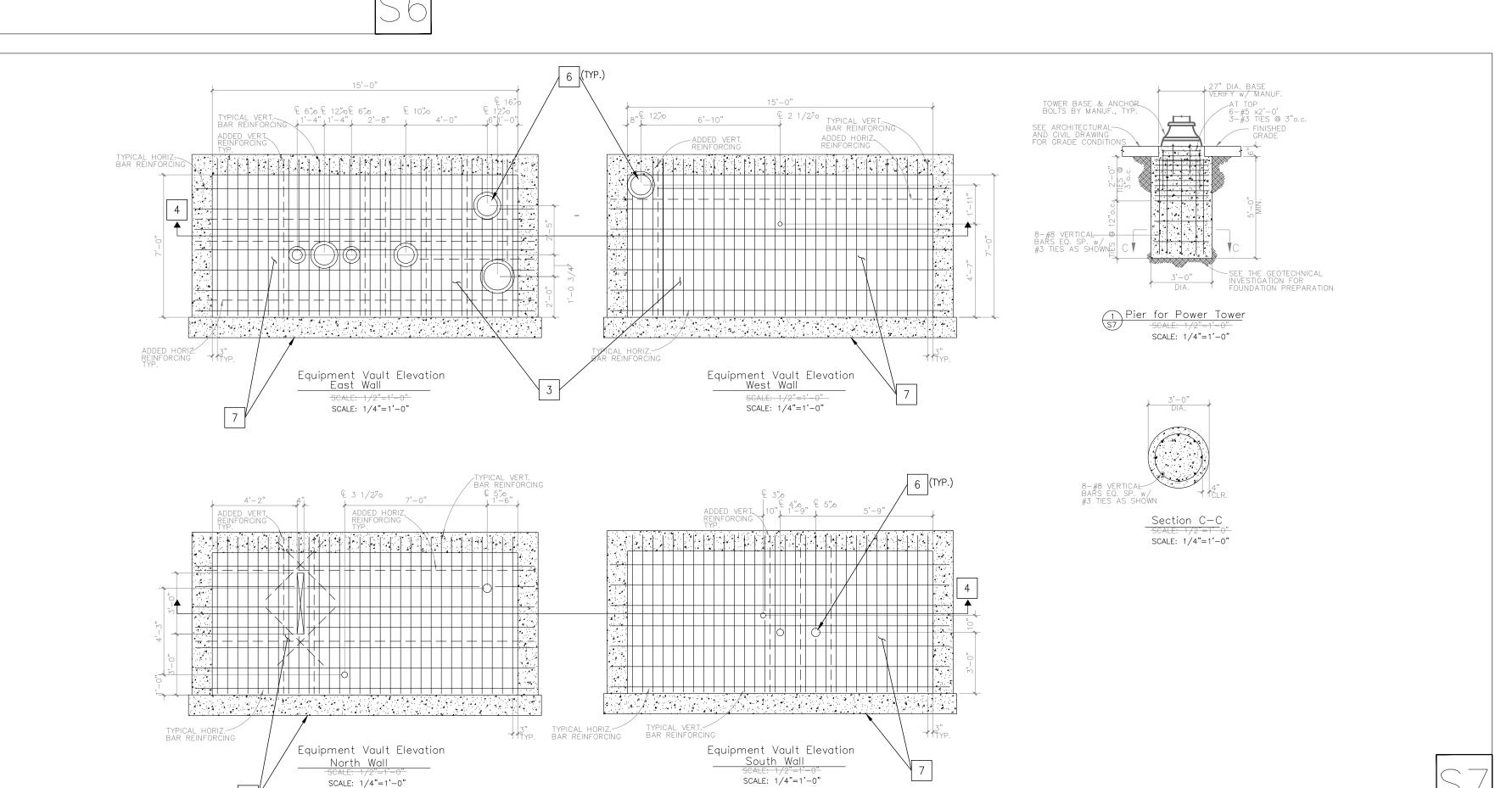
DM-5



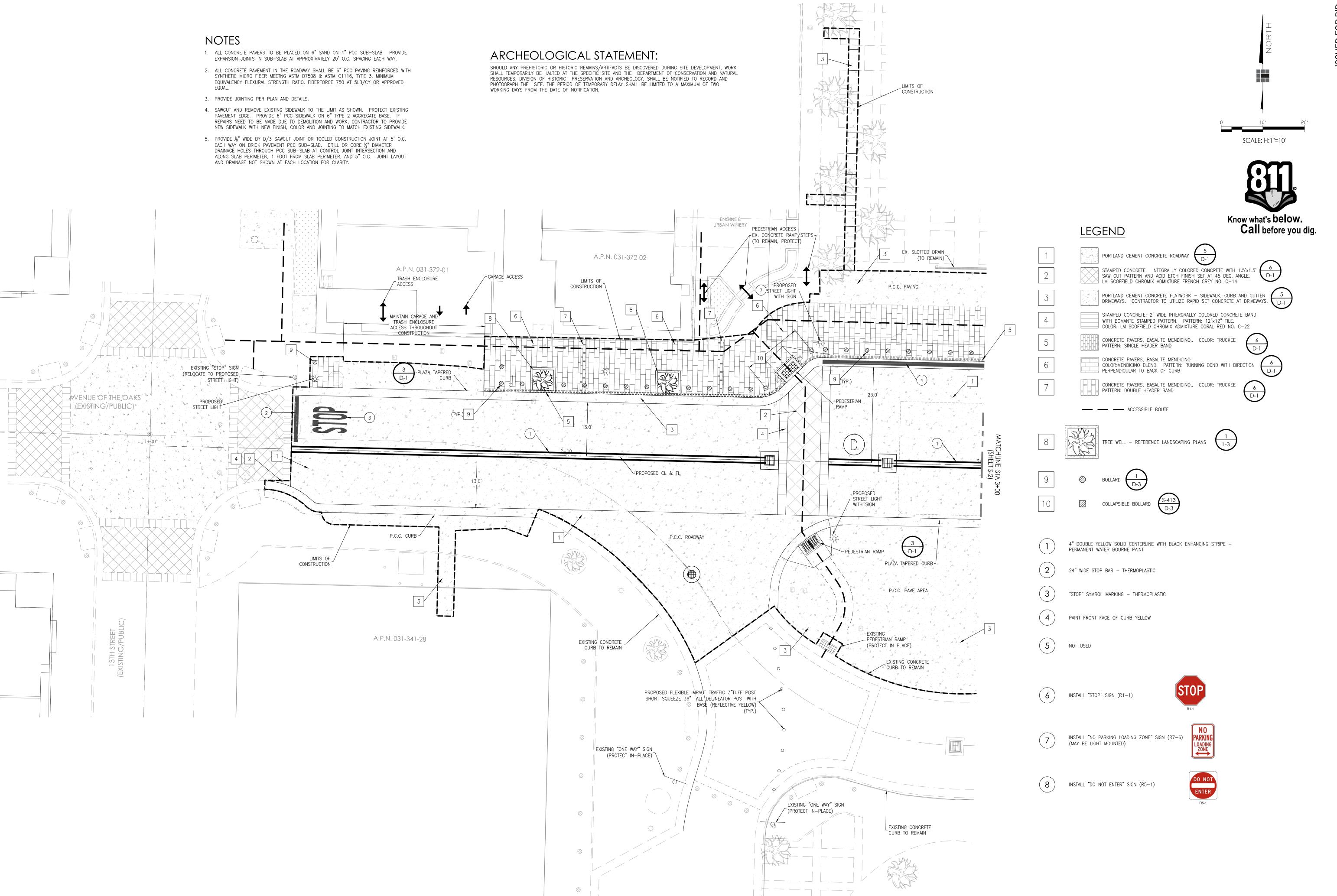
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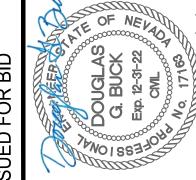
# **LEGEND**

- REMOVE AND DISPOSE OF ELECTRICAL & MISC. FACILITIES WITHIN VAULT PRIOR TO DEMOLITION AND BACKFILL
- REMOVE AND DISPOSE OF ROOF IN ENTIRETY
- REMOVE EXISTING CONCRETE VAULT TO THE LIMITS SHOWN. PROTECT ALL EXISTING IMPROVEMENTS TO REMAIN.
- 4' MINIMUM REMOVAL DEPTH
- CONTRACTOR TO PUMP STANDING WATER FROM VAULT PRIOR TO DEMOLITION AND BACKFILL
- REMOVE ALL PENETRATING PIPE. SEAL PIPE PENETRATIONS IN VAULT WALL WITH NON-SHRINK GROUT
- CORE 2" DIAMETER HOLES IN PIT BOTTOM AT 3' SPACING EACH WAY EXCEPT IN BENCH ENCASING STORM DRAIN. FILL VAULT WITH 6" DEPTH CLASS D DRAIN ROCK, COVER DRAIN ROCK WITH MIRAFI 180N GEOTEXTILE, BACKFILL WITH TYPE 2 CLASS B AGGREGATE BASE TO PROPOSED CONCRETE STREET SECTION. COMPACT BASE MATERIAL TO 95% M.D.D.



SCALE REDUCED BY HALF





FOR (S RE/ PLANS FOR STANK

CIVIL IMPROVEMENT PI AVENUE OF THE ( SITE PLAN - WEST CITY OF SPARKS

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5. PROVIDE 1/8" WIDE BY D/3 SAWCUT JOINT OR TOOLED CONSTRUCTION JOINT AT 5' O.C.

EACH WAY ON BRICK PAVEMENT PCC SUB-SLAB. DRILL OR CORE 1/2" DIAMETER

AND DRAINAGE NOT SHOWN AT EACH LOCATION FOR CLARITY.

DRAINAGE HOLES THROUGH PCC SUB-SLAB AT CONTROL JOINT INTERSECTION AND

ALONG SLAB PERIMETER, 1 FOOT FROM SLAB PERIMETER, AND 5" O.C. JOINT LAYOUT

FOR S RE PLANS OAK CIVIL IMPROVEMENT PA AVENUE OF THE ( SITE PLAN - EAST CITY OF SPARKS

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INSTALL "NO PARKING LOADING ZONE" SIGN (R7-6)

(MAY BE LIGHT MOUNTED)

INSTALL "DO NOT ENTER" SIGN (R5-1)

Checked by: Job No.

SHEET 9 OF 32

SSUED FOR BID

SSUED

ORPORATION
rks Nevada 89436
christynv.com

CHRIS CORPOR

EV. DATE DESCRIPTION

REALIGNMENT

CIVIL IMPROVEMENT PLANS FOR AVENUE OF THE OAKS REALIG GRADING PLAN - WEST

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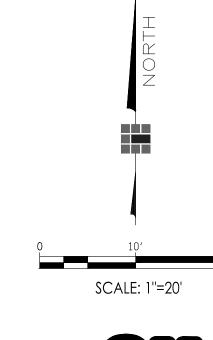
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Designed by:	SAJ
Checked by:	DGB
	•

Checked by: DGB

Job No. 1594.001

DRAWING 1

SHEET 10 OF 32





### LEGEND:

STORM DRAIN (SIZE & DIRECTION)

STORM DRAIN MANHOLE

CATCH BASIN (TYPE 3R)

CATCH BASIN (TYPE 3R)

GRADE BREAK

HANDRAIL

(50.00)
EG
ELEVATION © EXISTING GRADE

50.00
TC
ELEVATION © TOP BACK OF CURB FINISH GRADE

\$50.00}
TC
ELEVATION © TOP BACK OF DEPRESSED CURB FINISH GRADE

50.00
FG
ELEVATION © FINISHED GRADE

50.00
HP/LP

50.00
FL
ELEVATION © HIGH POINT/LOW POINT

50.00
FL
ELEVATION © FLOW LINE

50.00
GB
ELEVATION © GRADE BREAK

#### ARCHEOLOGICAL STATEMENT:

----75----- PROPOSED CONTOUR

SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.

#### SHEET NOTES

- TC ELEVATIONS SHOWN ARE FOR FULL HEIGHT CURB AND DO NOT REFLECT DRIVEWAYS AND PEDESTRIAN RAMP DEPRESSIONS UNLESS ANNOTATED AS SUCH PER LEGEND.
- 2. SEE SHEET N-1 FOR GRADING GENERAL NOTES.
- 3. SEE SHEET D-1 FOR TYPICAL AND STREET SECTIONS.
- 4. MATCH EXISTING CURB OR GRADE ELEVATION AT ALL TIE-IN LOCATIONS.

ISSUED FOR BID

Solution

ORPORATION
Ks Nevada 89436

CORPOR 1000 Kiley Parkway | Sparks Nevad

REV. DATE DESCRIPTION

PROVEMENT PLANS FOR UE OF THE OAKS REAL G PLAN - EAST

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Date:	11/9/2021
Designed by:	SAJ
Checked by:	DGB
loh No	1594 001

DRAWING

SHEET 11 OF 32

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SSUED

CORPORATION
ley Parkway | Sparks Nevada 89436

CIVIL IMPROVEMENT PLANS FOR AVENUE OF THE OAKS REALIGNAUTILITY PLAN - WEST

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Date: 11/9/2021

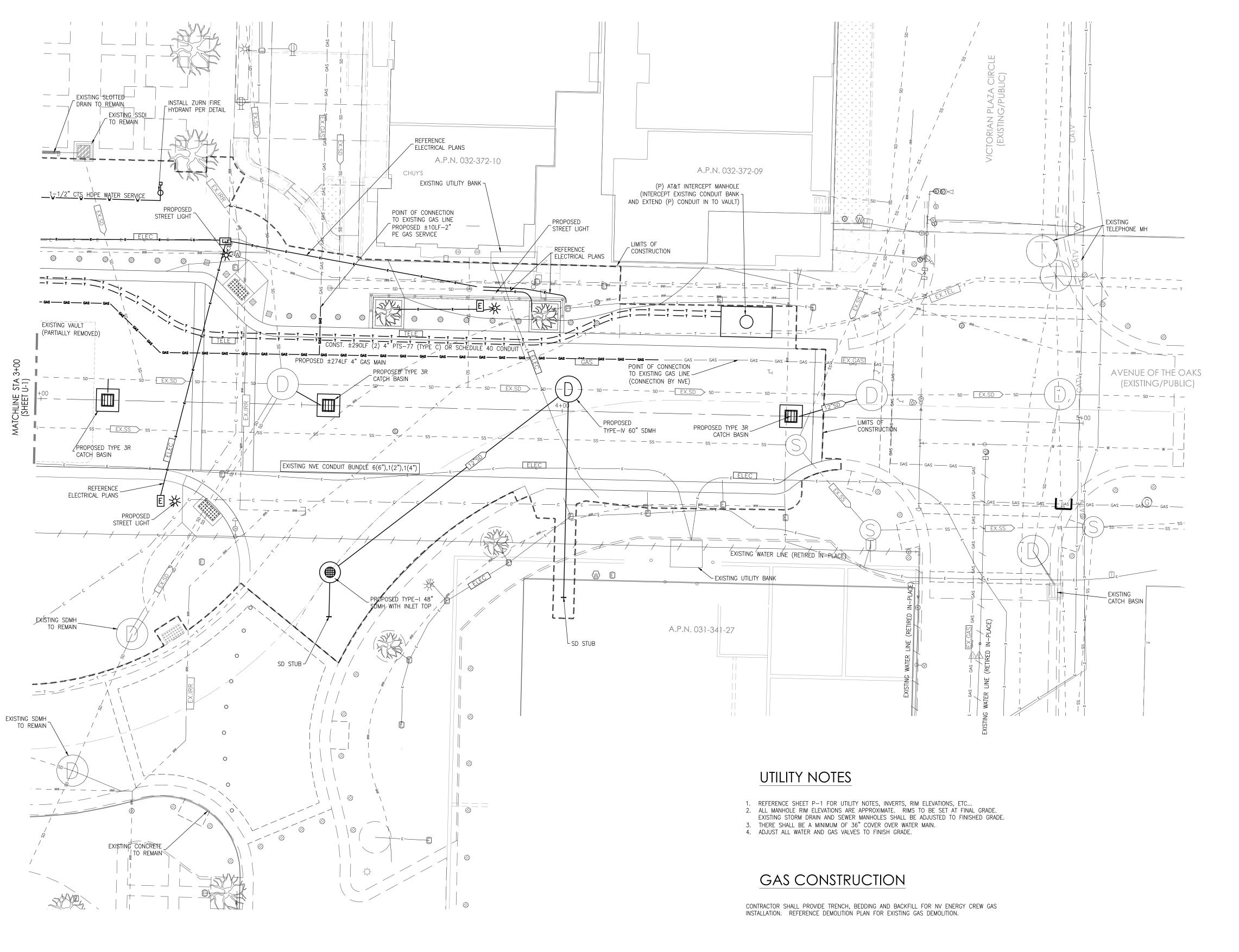
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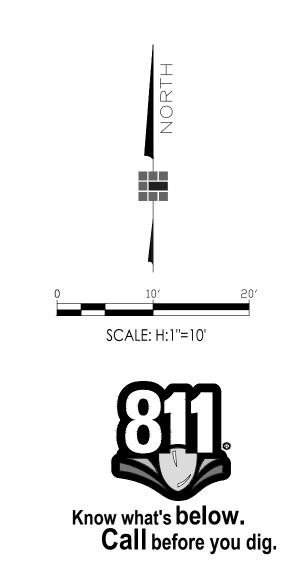
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Job No. 1594.001

DRAWING
U-1

SHEET 12 OF 32





#### LEGEND

EXISTING	PRC	POSED
STREET LIGHT	*	STREET LIGHT
STORM DRAIN MANHOLE	D	STORM DRAIN MANHOLE
S SANITARY SEWER MANHOLE	E	ELECTRICAL MANHOLE
TYPE 3R CATCH BASIN		STORM DRAIN MANHOLE W/ INLET
SS/SD STORM DRAIN/SEWER DIRECTION		TYPE 3R CATCH BASIN
— — — SD— — — STORM DRAIN MAIN	SĐ	STORM DRAIN SIZE AND DIRECTION
— — — SS— — — SANITARY SEWER MAIN		STORM DRAIN MAIN
© SS/SD CLEAN OUT	——т—	TELEPHONE
— — T — — TELEPHONE	——Е——	ELECTRIC
— — E — — ELECTRIC	———GAS———	GAS
— — -GAS- — — <b>GAS</b>	w	WATER
— — — WATER	E	ELECTRIC PULL BOX
-//		

— — — C — — IRRIGATION — CONTROL ELECTRIC PULL BOX

— — - IRR - — — IRRIGATION

GAS VALVE WATER VALVE

> WATER METER TELEPHONE MANHOLE

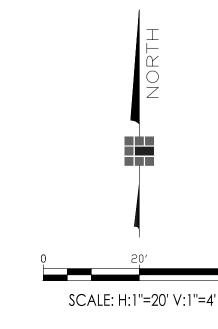
FOR S RE PLANS OAK

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Job No.

SHEET 13 OF 32

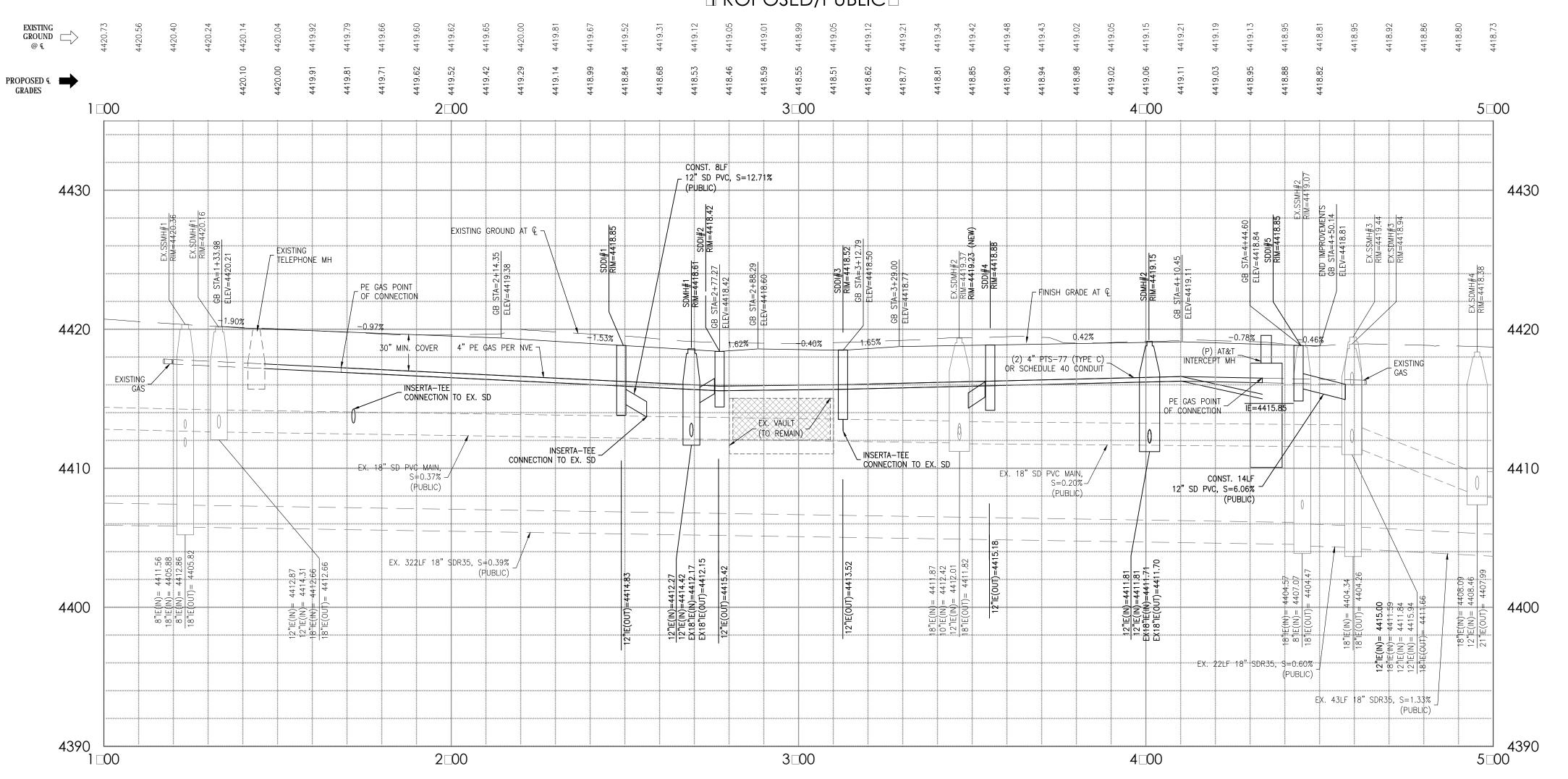




## SANITARY SEWER NOTES

- EX.SSMH#1 (PUBLIC)
- EX.SSMH#2 (PUBLIC) ADJUST RIM TO GRADE INSTALL NEW COVER AND FRAME
- EX.SSMH#3 (PUBLIC) EX.SSMH#5 (PUBLIC)

STA 1 00.00 TO 5 00.00 PROPOSED/PUBLIC



#### 1) STORM DRAIN NOTES

EX.SDMH#1 (PUBLIC) ADJUST RÏM TO GRADE

INSTALL NEW COVER AND FRAME

EX.SDMH#2 (PUBLIC) ADJUST RÎM TO GRADE

INSTALL NEW COVER AND FRAME

EX.SDMH#3 (PUBLIC)

STA 4+59.33, 4.43' L

RIM=4418.94, 12"IE(IN)=4411.59

EX12"IE(IN)=4411.84, EX12"IE(IN)=4415.94,

EX18"IE (OUT)=4411.66

(FIELD VERIFY)

EX.SDMH#4 (PUBLIC)

EX.SDMH#5 (PUBLIC)

EX.SDMH#6 (PUBLIC)

EX.SDMH#7 (PUBLIC)

ADJUST RÏM TO GRADE

SDMH#3 (TYPE I-48") PUBLIC

INSTALL TEMPOARY MANHOLÉ GRATE COVER,

(D&L FOUNDARY C-1030-01 OR APPROVED EQUAL)

STA 2+30.88, 27.83' R

RIM/FL=4419.25, 12"IE(IN)=4412.87

12"IE (OUT)=4412.77

58LF 12" SDR35 PVC, S=1.0%

50LF 12" SDR35 PVC, S=1.0%

(RE-USE EX. SDMH PENETRATION OR RE-CORE & GROUT)

FOR NEW STORM DRAIN PIPE INSTALLATION

EX.SDDI#4

TYPE 3R (PUBLIC)

EX.SDDI#5

TYPE 3R WITH TRENCH DRAIN (PUBLIC)

(PROTECT IN-PLACE)

NOT USED

SDDI#1 (TYPE 3R) PUBLIC STA 2+48.97, 0.00' RIM/FL=4418.85, IE(OUT)=4414.85 12"IE(@MAIN)=4413.75, S=12.9% 8LF 12" SDR35 PVC SD LATERAL (INSERTA-TEE CONNECTION AT MAIN TOP)

INSTALL NEW COVER AND FRAME

SDMH#1 (TYPE IV-60") PUBLIC SDDI#2 (TYPE 3R) PUBLIC STA 2+69.15, 4.28' L STA 2+77.27, 0.00' 12"IE(@SDMH)=4414.42, S=12.7% EX18"IE(IN)=4412.17, EX18"IE (OUT)=4412.15 8LF 12" SDR35 PVC SD LATERAL (FIELD VERIFY) (MATCH CROWN - VERIFY) SDMH#2 (TYPE IV-60") PUBLIC

SDDI#5 (TYPE 3R) PUBLIC STA 4+01.07, 4.16' L RIM = 4419.23, 12"IE(IN) = 4411.81, 12"IE(IN) = 4441.81STA 4+44.60, 0.00' RIM/FL=4418.85, IE(OUT)=4415.85 EX18"IE(IN)=4411.71, EX18"IE (OUT)=4411.70 12"IE(@MAIN)=4415.00, S=6.1% (FIELD VERIFY) 14LF 12" SDR35 PVC SD LATERAL SDMH#4 (TYPE I-48") PUBLIC (RE-USE EX. SDMH PENETRATION OR RE-CORE & GROUT)

STA 3+56.23, 32.02' R INSTALL TEMPOARY MANHOLE GRATE COVER, (D&L FOUNDARY C-1030-01 OR APPROVED EQUAL) RIM/FL=4419.12, 12"IE(IN)=4412.49 12"IE (OUT)=4412.39 SD STUB (FUTURE)

> STA 1+71.88, 35.26' R SDIE=4413.47, INSTALL 40LF 12" SDR35 PVC, S=0.5%, IE(MIAN)=4413.27 (INSTERTA-TEE) CAP SD STUB FOR 12" FUTURE CONNECTION SD STUB (FUTURE) STA 4+01.15, 35.78' R SDIE=4412.01, INSTALL 40LF 12" SDR35 PVC, S=0.5%, IE(SDMH)=4411.81

CAP SD STUB FOR 12" FUTURE CONNECTION SD STUB (FUTURE) STA 2+30.88, 37.83' R SDIE=4412.97, INSTALL 10LF 12" SDR35 PVC, S=1.0%, IE(SDMH#3)=4412.87 CAP SD STUB FOR 12" FUTURE CONNECTION

SD STUB (FUTURE) STA 3+56.22, 40.50' R SDIE=4412.57, INSTALL 10LF 12" SDR35 PVC, S=1.0%, IE(SDMH#4)=4412.49 CAP SD STUB FOR 12" FUTURE CONNECTION

SDDI#3 (TYPE 3R) PUBLIC STA 3+12.79, 0.00' RIM/FL=4418.52, IE(OUT)=4413.5212"IE(@MAIN)=4412.74, S=19.2% 4LF 12" SDR35 PVC SD LATERAL (INSERTA-TEE CONNECTION AT MAIN TOP)

25 POTHOLE STORM DRAIN CROSSING IN ADVANCE OF WORK 26 EXISTING ABANDONED WATER TO BE REMOVED AS REQUIRED

FOR THE WORK SDDI#4 (TYPE 3R) PUBLIC STA 3+55.17, 0.00' RIM/FL=4418.88, IE(OUT)=4415.18

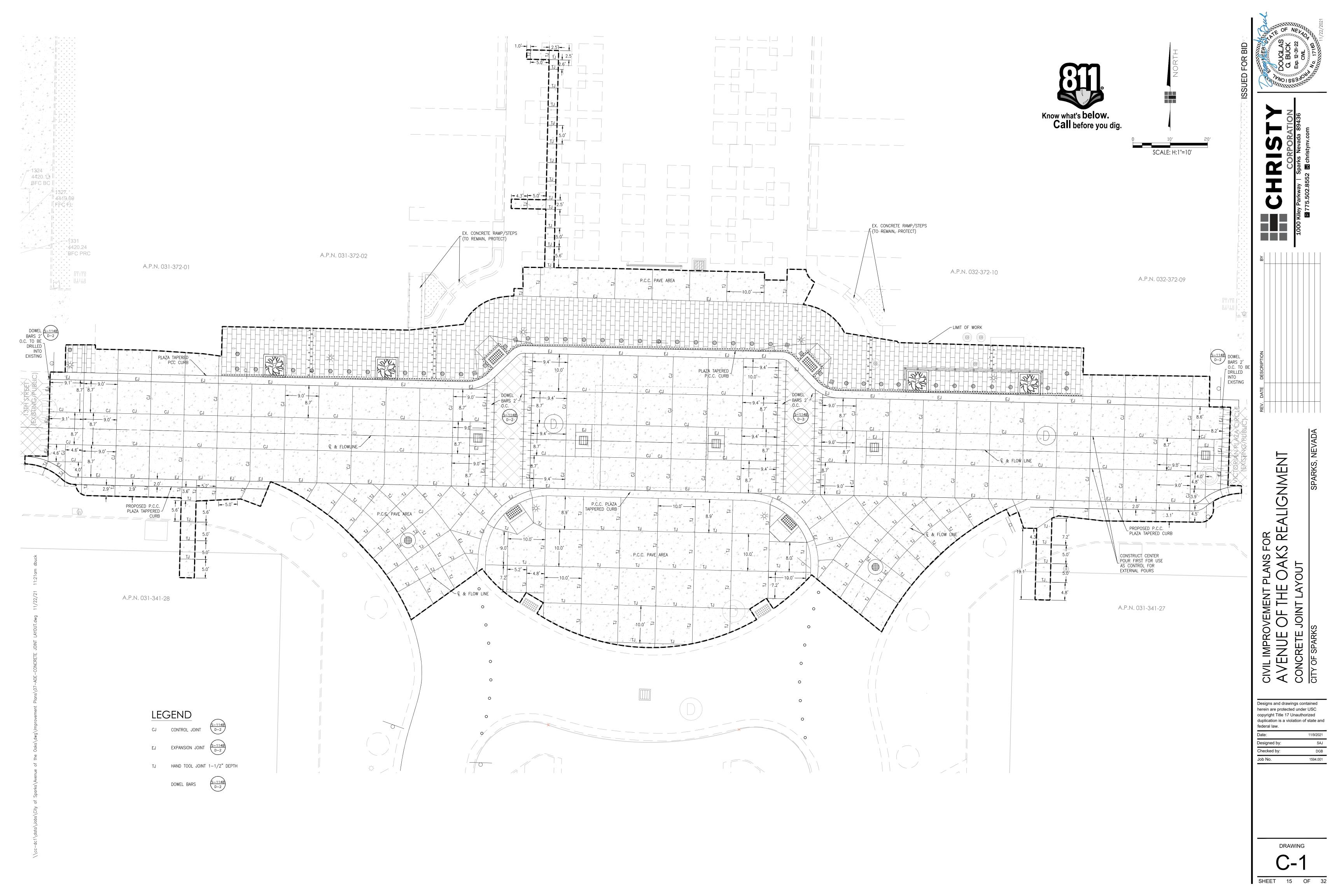
12"IE(@MH)=4414.38, S=14.7% 6LF 12" SDR35 PVC SD LATERAL (MATCH CROWN - VERIFY)

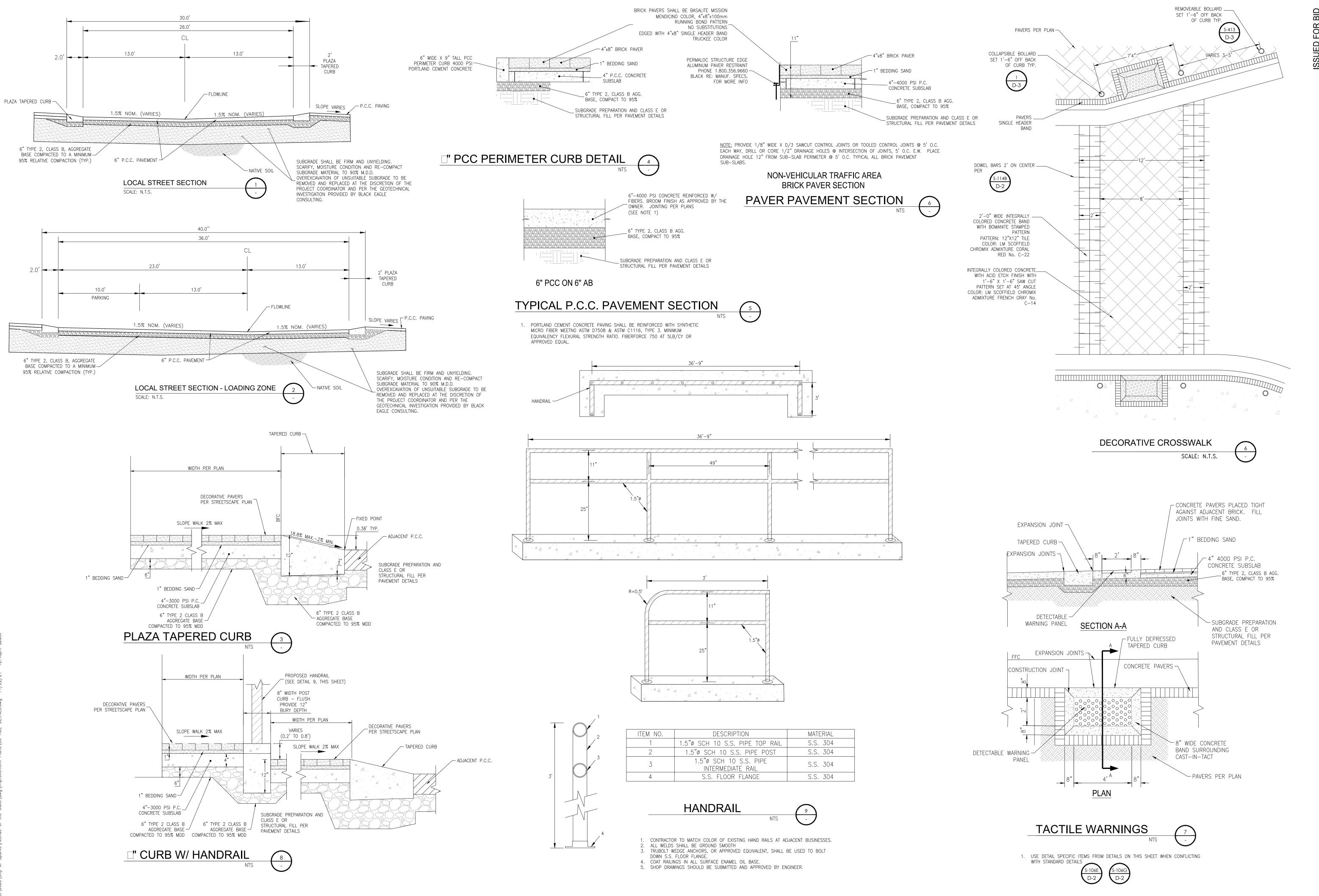
OR RE Щ S T PLANS FIE OAKS

CIVIL IMPROVEMENT FAVENUE OF THE UTILITY - PLAN AND PF Designs and drawings contained herein are protected under USC copyright Title 17 Unauthorized

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SHEET 14 OF 32





OR RE ANS AK

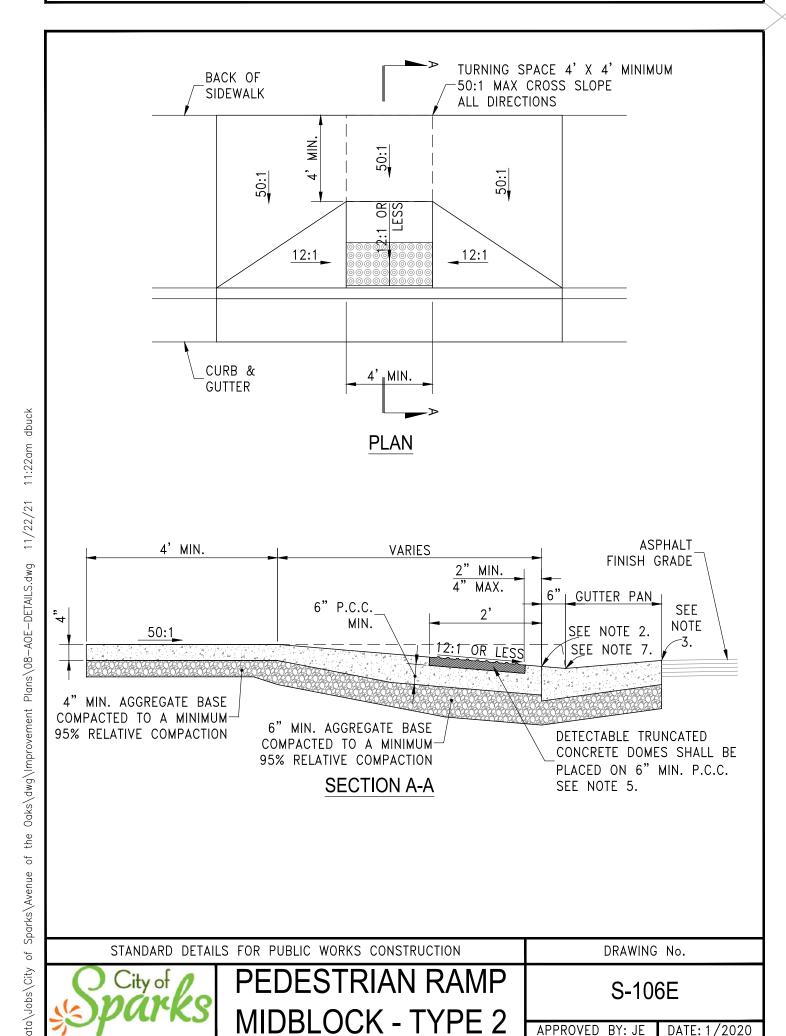
CIVIL IMPROVEMENT PAVENUE OF THE (DETAILS CITY OF SPARKS

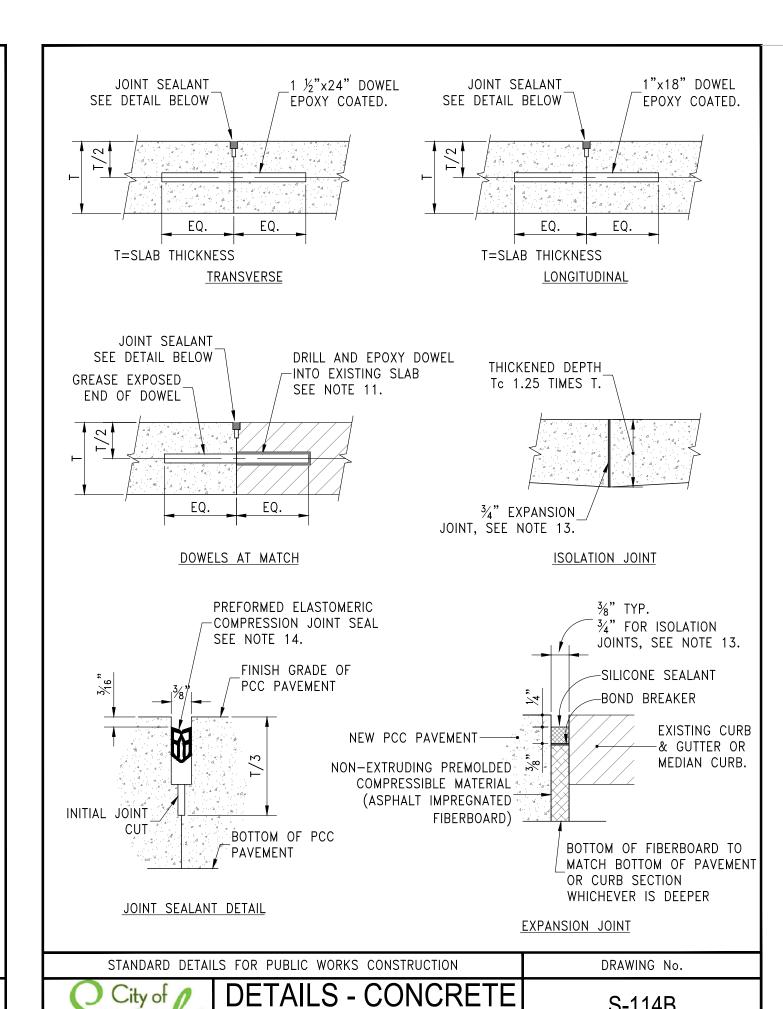
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SHEET 1□ OF 32







1. STORM DRAIN INLETS OR SIMILAR ACCESSES SHALL NOT BE LOCATED IN THE AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, PULL BOXES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL OF THE CITY ENGINEER.

PAVEMENT PATCH

APPROVED BY: JE DATE: 1/2020

- 2. NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO GUTTER PAN.
- 3. PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP.
- 4. ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS.
- 5. DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE PLACED ON MIN. SIX (6") INCHES OF P.C.C.
- 6. ALL SLOPE RATES ARE RELATIVE TO LEVEL AND SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) STANDARDS.
- 7. GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
- 8. DETECTABLE WARNING SHALL CONSIST OF PRECAST WETSET TILES WITH MIN. SIZE OF 2' X 2', COLOR YELLOW. APPROVED PRODUCTS INCLUDE: "CASTINTACT 3", "TEKWAY DOME-TILES", "ADA SOLUTIONS", AND "ACCESS TILE". DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITION, OR TURNING SPACE. DETECTABLE WARNING SHALL BE CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM TO ADAAG.
- 9. CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES
- 10. AGGREGATE BASE MATERIAL UNDER PEDESTRIAN RAMPS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- 11. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER—CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- 12. CONTRACTORS SHALL CORRECT ANY GRADE CONFLICT WITH EXISTING BOXES. THE CITY ENGINEER SHALL MAKE THE FINAL DETERMINATION REGARDING THE DEGREE OF MODIFICATIONS REQUIRED BY THE CONTRACTOR FOR GRADE CONFLICTS BETWEEN EXISTING BOXES AND NEW PEDESTRIAN RAMPS.
- 13. SIDEWALK AT BOTH SIDES OF RAMP MAY BE RECONSTRUCTED TO MINIMIZE THE GRADE AT A HORIZONTAL DISTANCE TO BE DETERMINED IN THE FIELD, UPON APPROVAL OF THE CITY ENGINEER, SUBJECT TO PROWAG REQUIREMENTS. CURB AT THE BACK OF WALK MAY BE NEEDED. A TRANSITION SECTION OF SIDEWALK MAY BE NECESSARY TO MATCH CROSS SLOPE OF EXISTING SIDEWALK TO PEDESTRIAN RAMP IMPROVEMENTS. TRANSITION SECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

STANDARD DETAIL	S FOR PUBLIC WORKS CONSTRUCTION	DRAWING	No.
City of	NOTES -	S-10	6G
SS) PURKS	PEDESTRIAN RAMP		
		APPROVED BY: JE	DATE: 3/2021

#### NOTES:

- 1. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AS ADOPTED BY CITY COUNCIL. SEE DETAIL S-117 FOR TRENCH EXCAVATION AND BACKFILL REQUIREMENTS.
- 2. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE CITY PERMIT INSPECTOR OR APPLICABLE ENGINEER OF RECORD.
- 3. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 550 PSI MIN. FLEXURAL STRENGTH PRIOR TO OPENING TO TRAFFIC, MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT OF 5.5% ±1.5%, SLUMP AT 2 INCHES MAX. UNPLASTICIZED. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- 4. PORTLAND CEMENT CONCRETE PAVING SHALL BE REINFORCED WITH SYNTHETIC MICRO FIBER MEETING ASTM D7508 & ASTM C1116, TYPE 3. MINIMUM EQUIVALENCY FLEXURAL STRENGTH RATIO. FIBERFORCE 750 AT 5LB/CY OR APPROVED EQUAL.
- CONCRETE REMOVAL SHALL BE TO AN EXISTING JOINT. PANELS SHALL BE FULL DEPTH SAWCUT TO PROVIDE A CLEAN EDGE PRIOR TO PLACING NEW P.C.C. PAVEMENT.
- 6. DOWEL BARS SHALL NOT BE PLACED WITHIN 18" OF OPPOSING JOINT.
- 7. THE ALIGNMENT AND ELEVATION OF DOWELS IS EXTREMELY IMPORTANT. DOWELS SHALL BE CENTERED IN THE P.C.C. SECTION AND SHALL BE PLACED PARALLEL TO THE TOP OF THE PAVEMENT SURFACE WITHIN A TOLERANCE OF  $\pm 1/16$ " IN ONE FOOT.
- 8. DOWEL BARS SHALL BE DRILLED AND EPOXIED INTO ADJACENT EXISTING SLAB AND PLACED IN NEW SLAB. EXPOSED END OF DOWEL SHALL BE GREASED PRIOR TO POURING P.C.C. PAVEMENT. THE LENGTH OF THE DOWELS TO BE EMBEDDED INTO THE SLAB SHALL BE HALF THE TOTAL LENGTH OF DOWEL BARS.
- 9. 3/8" EXPANSION JOINT MATERIAL SHALL BE PLACED ADJACENT TO CURB AND GUTTER SECTIONS. 3/4" EXPANSION JOINT MATERIAL SHALL BE PLACED ADJACENT TO UTILITIES AND OTHER ISOLATION JOINTS.
- 10. INITIAL JOINTS CUT SHALL BE PREFORMED WITHIN 24 HOURS OF CONCRETE PLACEMENT. COMPRESSION SEAL CUTS SHALL BE CLEANED OUT WITH COMPRESSED AIR PRIOR TO PLACEMENT OF SEAL. COMPRESSION JOINT SEAL SHALL BE D.S. BROWN'S DB-1516 DELCRETE OR APPROVED EQUAL, INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- 11. P.C.C. PAVEMENT AND CURB AND GUTTER SHALL NOT BE MONOLITHIC.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

STANDARD DETAILS ON THIS SHEET.

12. ASPHALT BASED HOT POUR SEALANTS SHALL NOT BE USED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

6" MIN. AGGREGATE BAS COMPACTED TO 95% RELATIV	E_/	6" P.C.C SIDEWALK	CURB & GUTTER A.C.  "MIN. AGGREGATE BASE
COMPACTION	V	MIN. C	OMPACTED TO A MINIMUM
		9;	5% RELATIVE COMPACTION
	SECT	ION A-A	
, г	<u> — А                                   </u>		/
		GUTTER	
		ÇURB	
	SIDEWALK	WEAKENED PLANE JOINTS	
NOTES:		5'	-
	PLAN	SEE NOTE 5.	
1. PORTLAND CEMENT CONCRETE	(P.C.C.) SHALL F	HAVE THE FOLLOWING	CHARACTERISTICS: 4000 PSI M

- 1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER—CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE №. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.
- 2. AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- 3. SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. WITH 60" PASSING SPACE EVERY 200' ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.
- 4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC, AS ADOTED BY CITY COUNCIL.
- 5. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK. DOWEL INTO EXISTING ADJACENT CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
- 6. SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
- 7. TUNNELING AND/OR BORING IS NOT ALLOWED.



**NOTES - CONCRETE** 

PROJECT SPECIFIC DETAILS ON SHEET D-1 TAKE PRECEDENCE OVER

DRAWING No

APPROVED BY: JE DATE: 1/202



CIVIL IMPROVEMENT PLANS FOR
AVENUE OF THE OAKS REALIC
DETAILS

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Date: 11/9/2021

Designed by: SAJ

 Date:
 11/9/2021

 Designed by:
 SAJ

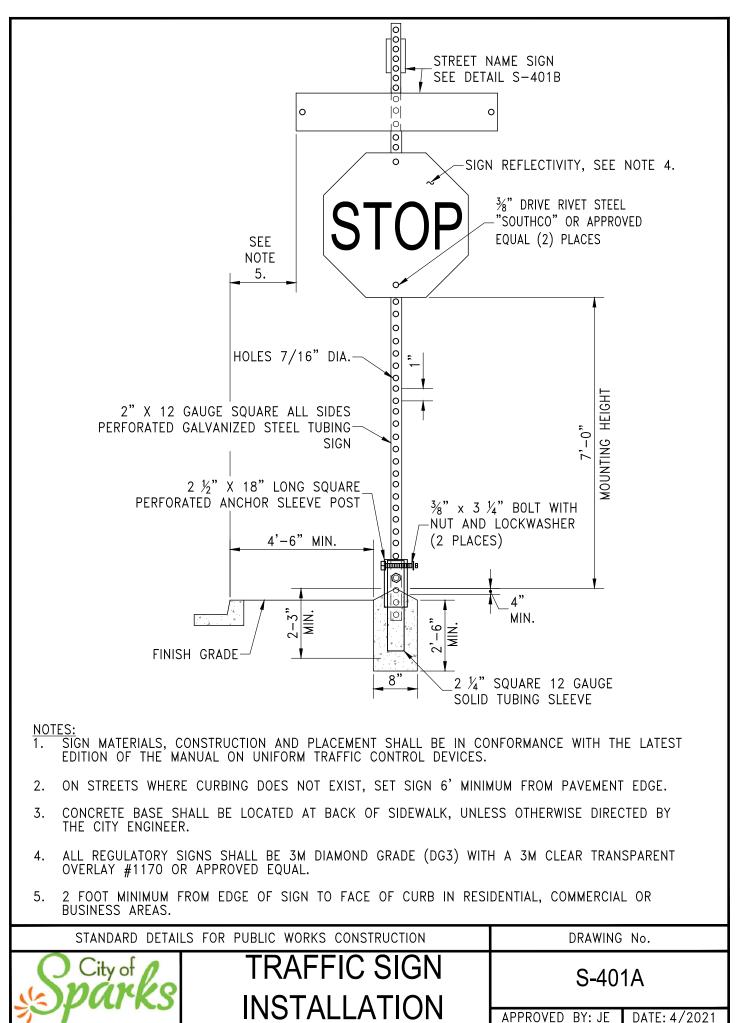
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 DGB

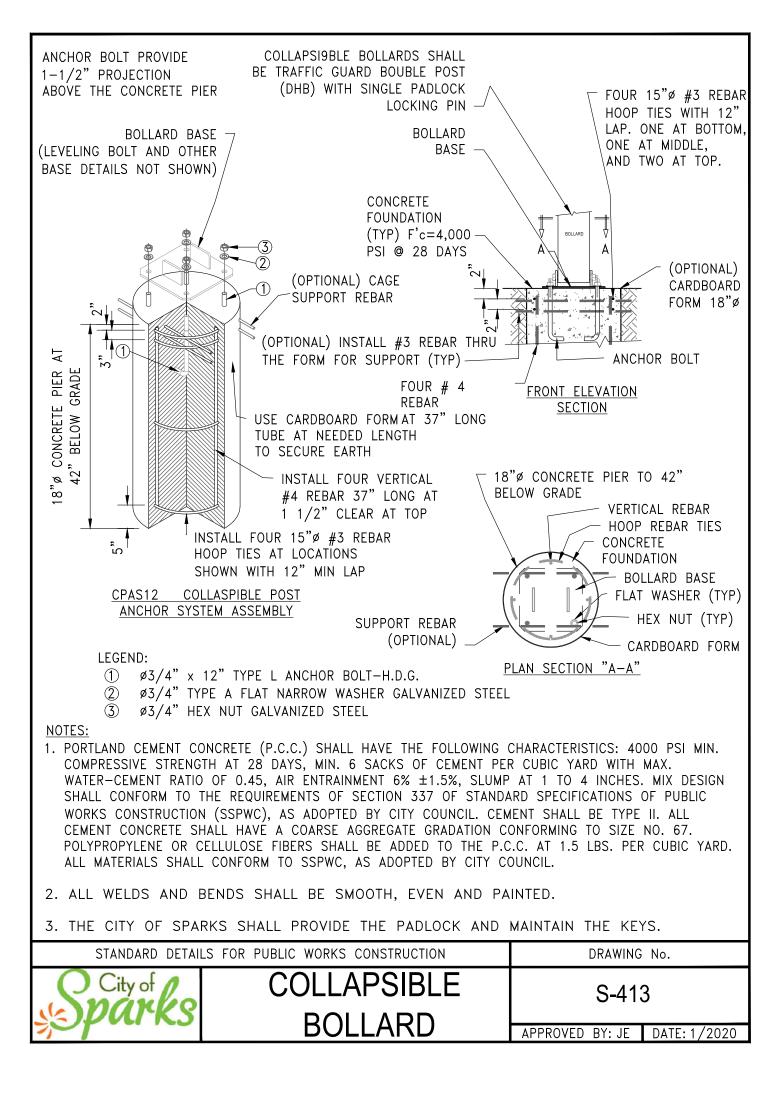
 Job No.
 1594.001

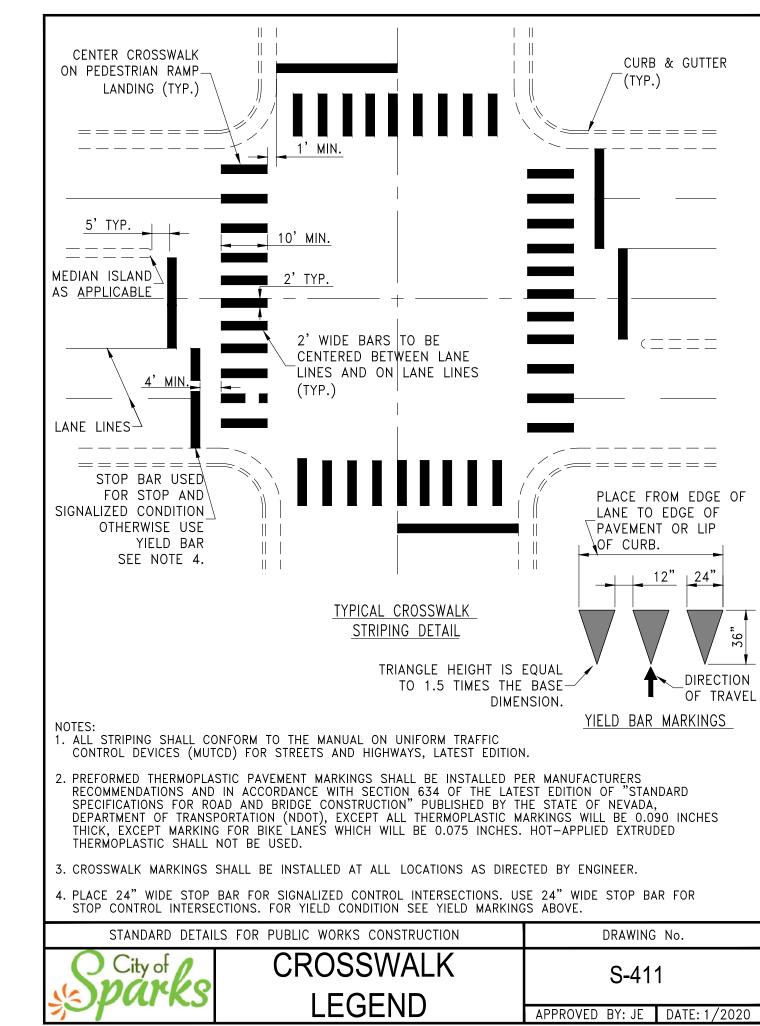
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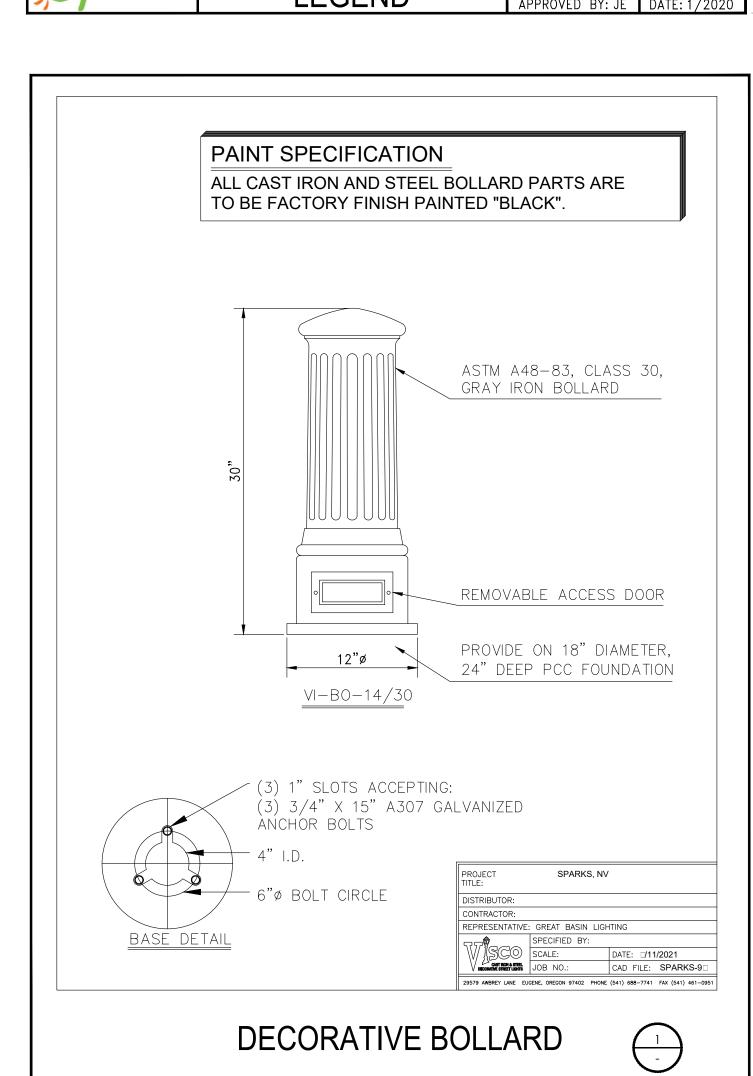
SHEET 17 OF 32

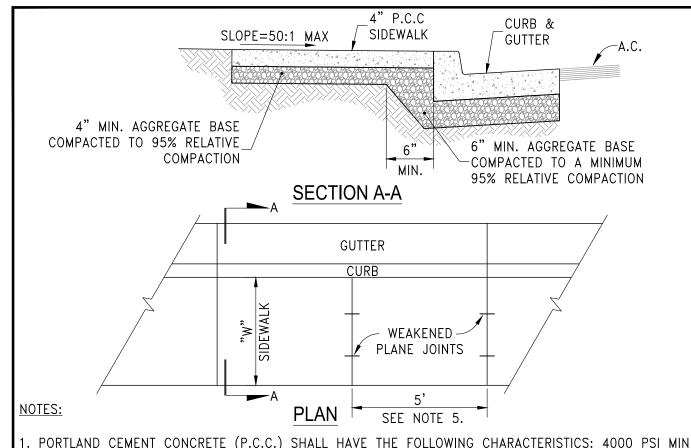
STORM DRAIN/SEWER CLEANOUT NO SCALE











PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.

AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.

SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. WITH 60" PASSING SPACE EVERY 200' ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.

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. SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.

. TUNNELING AND/OR BORING IS NOT ALLOWED.

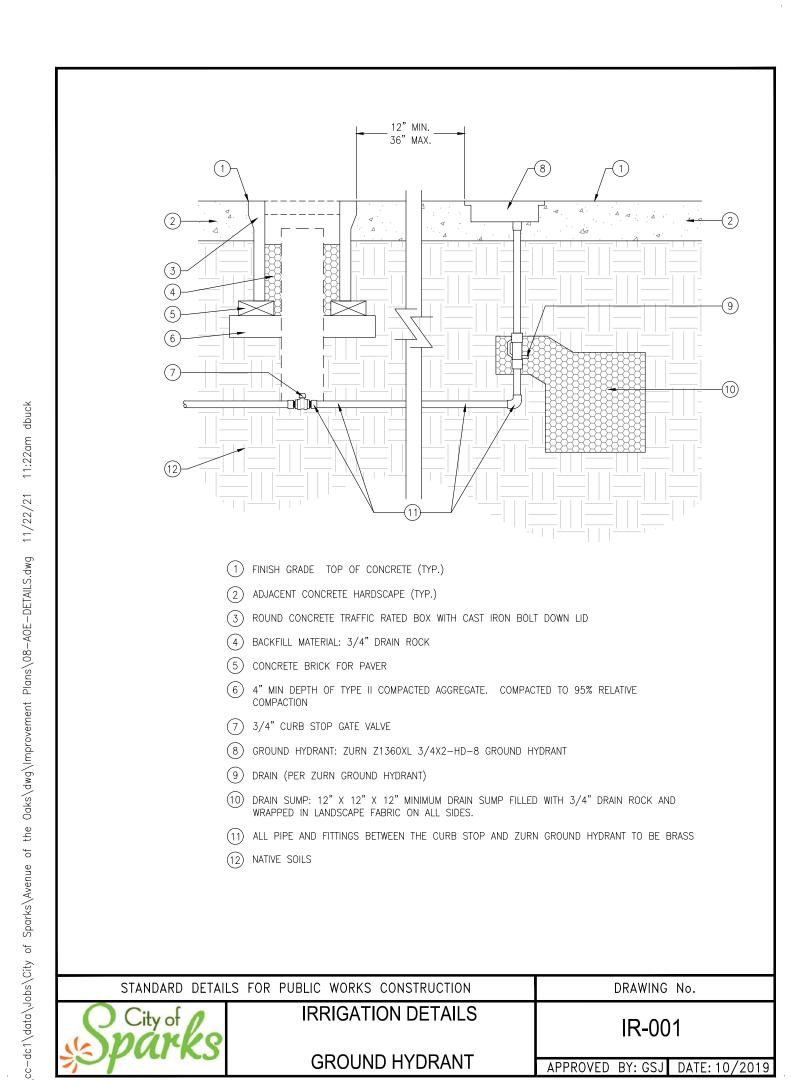
STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DRAWING No. S-103 SIDEWALK DETAIL APPROVED BY: JE DATE: 1/202

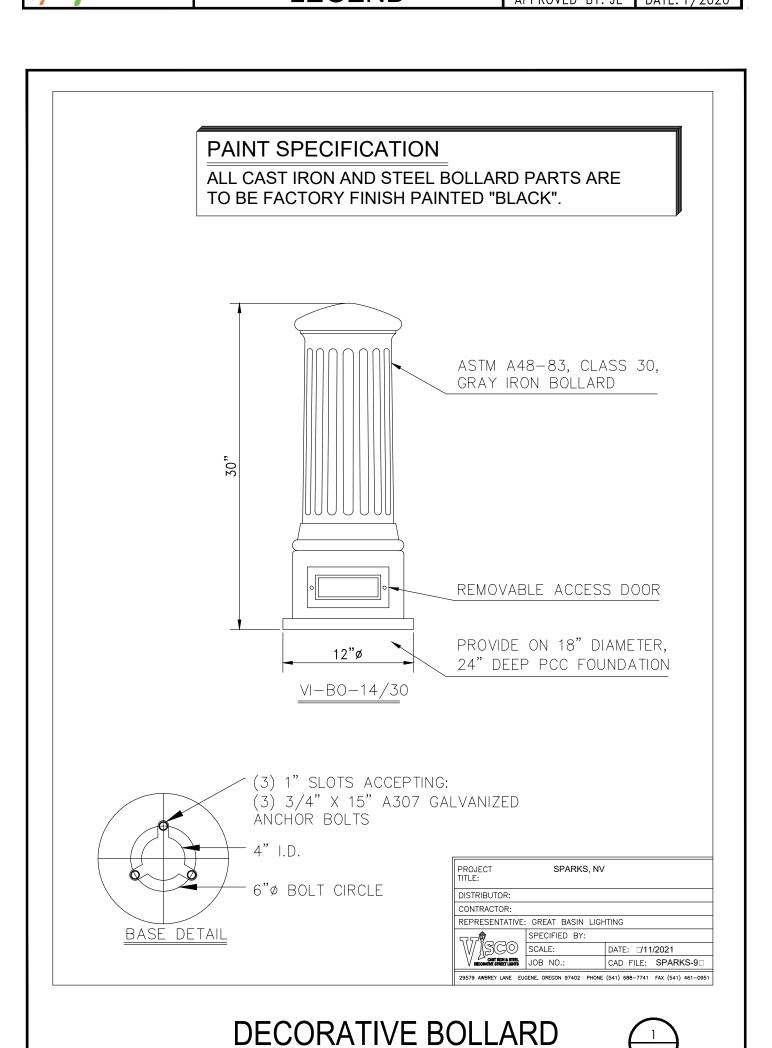
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SHEET 1□ OF 32

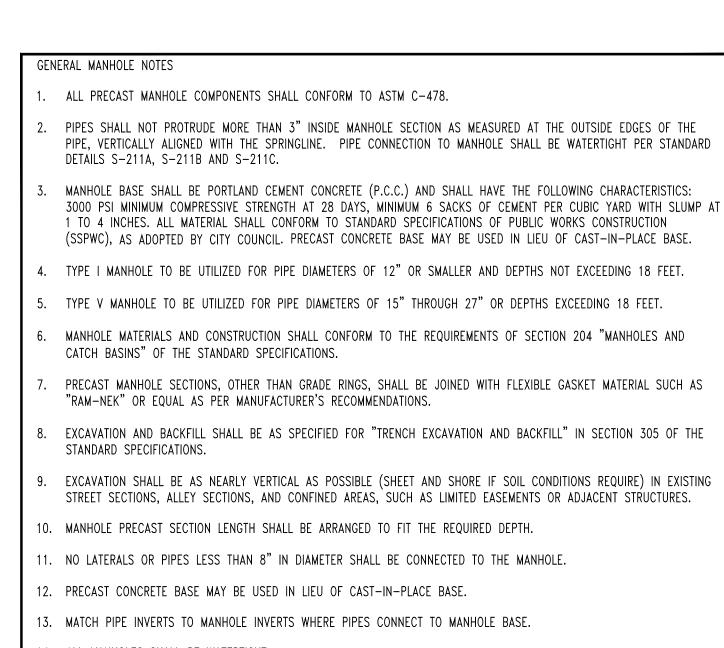


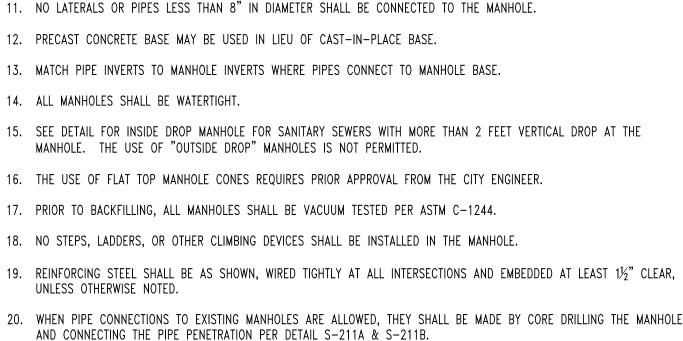


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Job No.

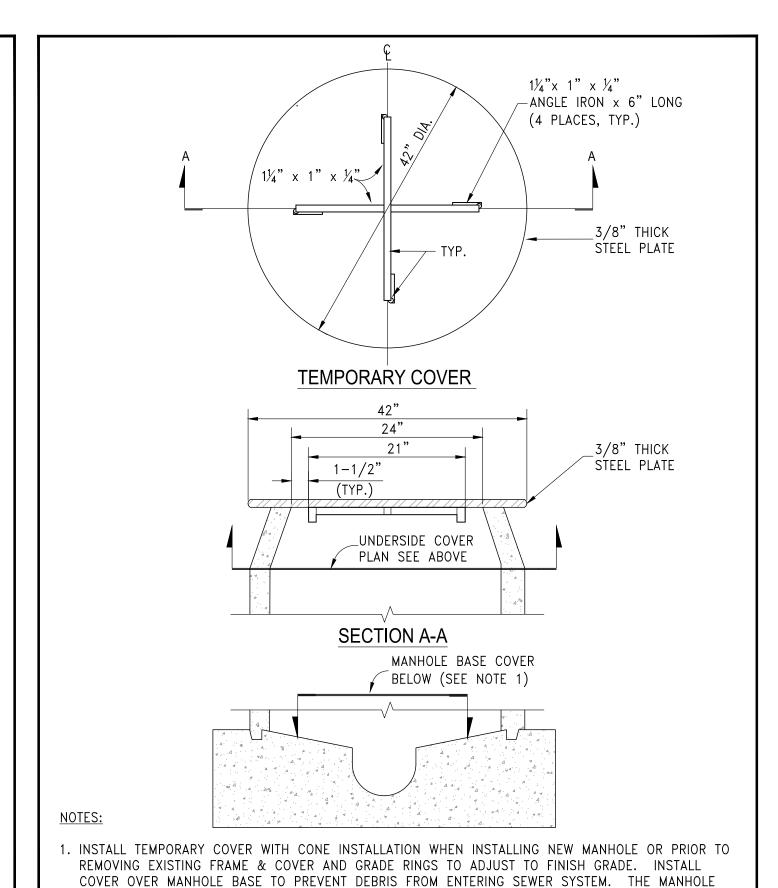
SHEET 19 OF 32





STANDARD DETAI	LS FOR PUBLIC WORKS CONSTRUCTION	DRAWING	No.
	NOTES - MANHOLE TYPE I, TYPE V & TYPE IV	S-20	6D
		APPROVED BY: JE	DATE: 1/202

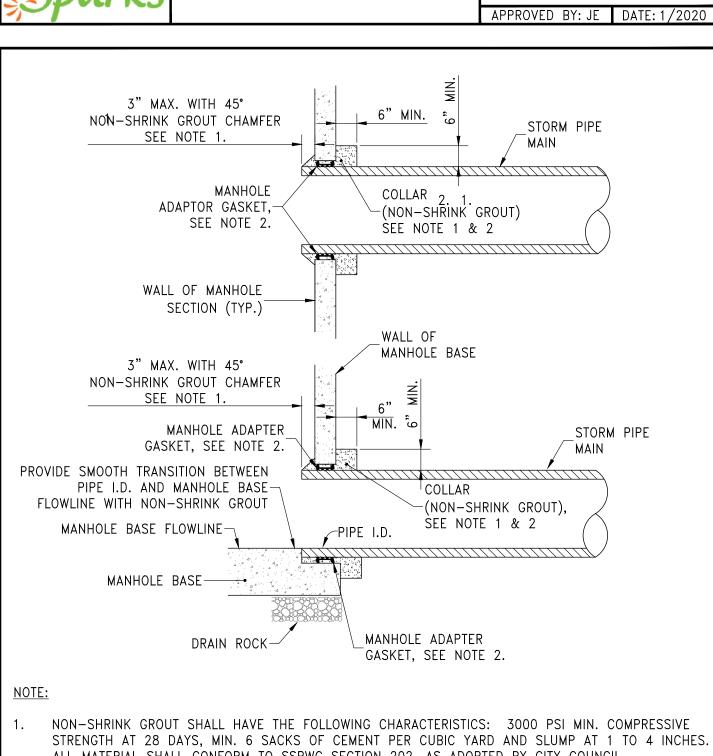
21. TYPE IV MANHOLES SHOULD ONLY BE USED AS APPROVED BY CITY ENGINEER



BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS OR GROUTING AND SHALL REMAIN IN PLACE WHILE ADJUSTMENTS OR GROUTING ARE BEING PERFORMED. REMOVE BASE COVER UPON ADJUSTMENT APPROVAL BY CITY OF SPARKS. STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DRAWING No. S-209B

APPROVED BY: JE DATE: 1/2020

MANHOLE COVER



-FRAME & COVER

48" I.D.

BROOM

FINISH

PIPE I.D.

SMOOTH

SEE NOTE

MANHOLE TYPE I

FINISH

13.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

WITH

18" MIN.\_

24" MAX.

CONCRETE BASE-

DRAIN ROCK-

26" MIN.

FINISH ROADWAY

-CONCRETE COLLAR

MANHOLE CONE

SEE NOTE 16.

MANHOLE

SECTIONS

I.D. DEPTH

₩ 8" MIN.

WATER TIGHT

SEE NOTE 2.

PIPE (TYP.)-

CONCRETE BASE-

SMOOTH RADIUS

CHANNELS

**SECTION A-A** 

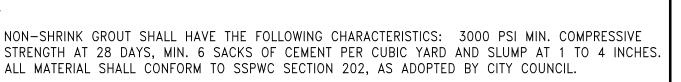
DRAWING No.

S-206A

SEAL (TYP)-

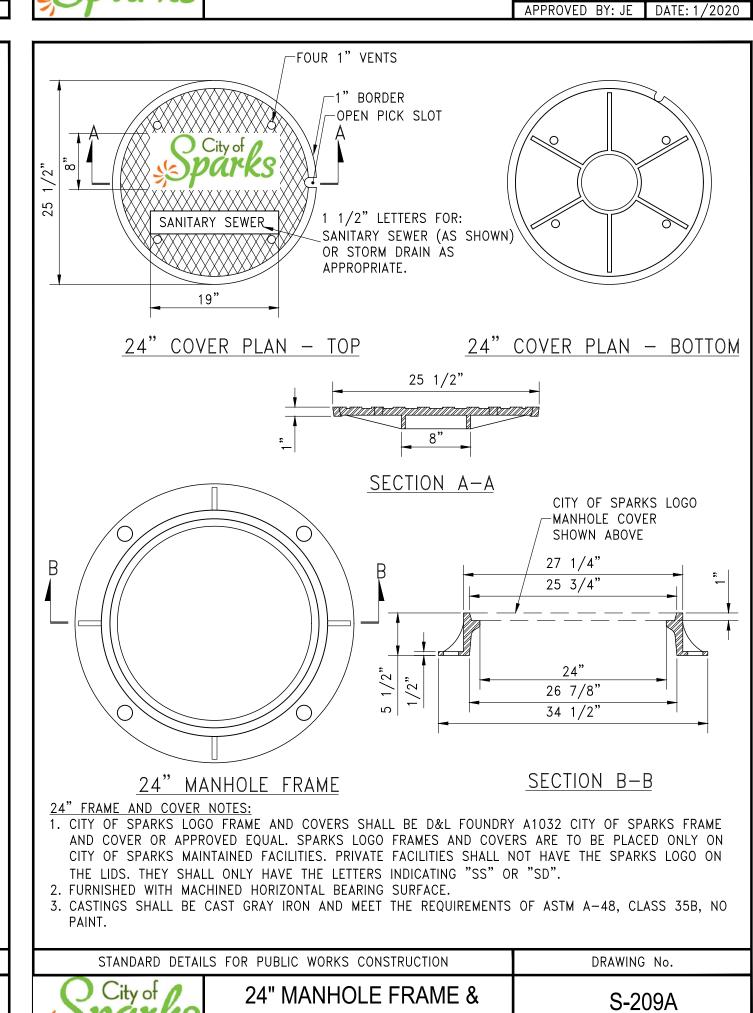
SURFACE

-GRADE RINGS



- STORM DRAIN PIPE CONNECTIONS TO MANHOLE BASES AND SECTIONS REQUIRE AN AGENCY-APPROVED FORM OF SEAL OR WATER STOP AND IS REQUIRED ON ALL STORM DRAIN INSTALLATIONS TO PROVIDE A WATERTIGHT CONNECTION. UTILIZE A ROMAC STYLE "LCT" MANHOLE ADAPTER GASKET OR APPROVED EQUAL IN CONJUNCTION WITH THE NON-SHRINK GROUT.
- A RESILIENT FLEXIBLE CONNECTOR INSTALLED IN ACCORDANCE WITH STANDARD DETAIL S-211C MAY BE USED TO SATISFY THE REQUIREMENTS OF NOTE 2 ABOVE.
- ALL PIPE OPENINGS TO NEW MANHOLES MUST BE EITHER CAST-IN-PLACE OR PRE-FORMED AND PIPE OPENINGS TO EXISTING MANHOLES MUST BE CORE DRILLED.

rks	OF LIMINGS TO EXIST			
Spa	STANDARD DETAIL	DRAWING	No.	
Jobs\City of	City of parks	STORM DRAIN PIPE TO MANHOLE CONNECTION	S-21	
to/c		WWW.TOLL GOTTILGT	APPROVED BY: JE	DATE: 1/2020



**COVER** 

PIPE ID OR 48" MAX

PLAN

4" MIN

6" MAX

SECTION B-B

(ANGLE POINT)

NO. 4 AT 4"

EACH WAY

o" MIN

√NO. 4 AT 12"

SANDBAGS MA'

– BE USED

AS FORM

`NO. 4 AT 6"

SLOPE TO CONFORM W/ PIPE BELOW SPRING

\Line, PROVIDE SMOOTH

FINISH

NO. 4 AT 12"

EACH WAY

DRAWING No.

S-206C

APPROVED BY: JE DATE: 2/2020

12"MAX

-CONCENTRIC MANHOLE-

(SEE TYPE 1)

4" MIN ─**►** 

EARTH IN

PLACE CAN

AS FORM

BE USED—

6" MIN-

8" MAX —

SECTION A-A

(TANGENT)

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

FORM CIRCULAR OF-

ELLIPTICAL MANHOLE

-SANDBAGS MAY BE

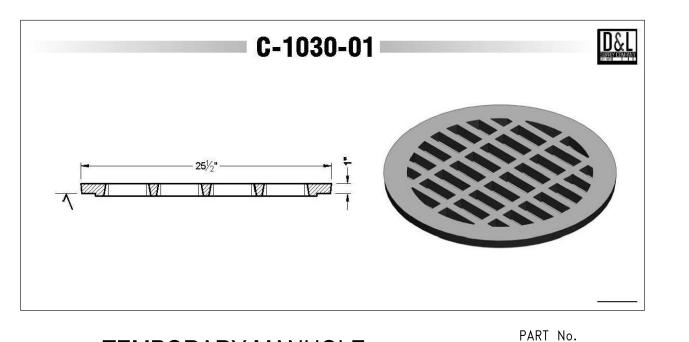
USED AS FORM

≓EARTH IN PLACE CAN 🛶

BE USED AS FORM

MANHOLE TYPE IV

6" DRAIN ROCK



C-1030-01

TEMPORARY MANHOLE **GRATE COVER** 

- SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL.
- 2. BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE CITY OF SPARKS. FOR CITY-OWNED UTILITIES, BEDDING MATERIAL SHALL BE CLASS A OR C, COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- CLASS C BEDDING REQUIRES INSTALLATION OF GEOTEXTILE FABRIC BETWEEN PIPE ZONE AND BACKFILL MATERIAL. GEOTEXTILE FABRIC SHALL BE MIRAFI 180N OR APPROVED EQUAL.
- BACKFILL MATERIAL SHALL BE TYPE 2, CLASS B OR CLASS E AND COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
- EXISTING PIPE TO BE ABANDONED SHALL BE GROUT FILLED OR COMPLETELY REMOVED.
- MINIMUM BACKFILL DEPTH REQUIREMENT IS FOR TRENCHING IN EXISTING PAVED STREETS. TRENCHING FOR NEW DEVELOPMENT WHERE STREETS HAVE NOT YET BEEN CONSTRUCTED, BACKFILL MATERIAL SHALL BE TYPE 2, CLASS B OR CLASS E AND COMPACTED TO MINIMUM 90% RELATIVE COMPACTION. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.

STANDARD DETAI	LS FOR PUBLIC WORKS CONSTRUCTION	DRAWING	No.
Sparks City of C	TRENCH EXCAVATION/BACKFILL	S-11	7
	LACAVATION/BACKITEL	APPROVED BY: JE	DATE: 1/2020

**-**----CL

FRAME & GRATE

CONCRETE COLLAR

#4 BARS @ 18" EA. WAY (TYP.)

DRAWING No.

S-203

APPROVED BY: JE DATE: 1/2020

-DRAIN ROCK

PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN.

WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC

OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS

3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT. BASE OF PRE-CAST CONCRETE UNIT SHALL

5. CATCH BASIN SHALL BE TRAFFIC—RATED AND USED ONLY AT LOW POINTS IN ALLEYS OR PARKING AREAS.

6. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER

CATCH BASIN

TYPE 3-R

WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY CITY COUNCIL. CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE

COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX.

12" (TYP.)

SHALL CONFORM TO SSPWC, AS ADOPTED BY CITY COUNCIL.

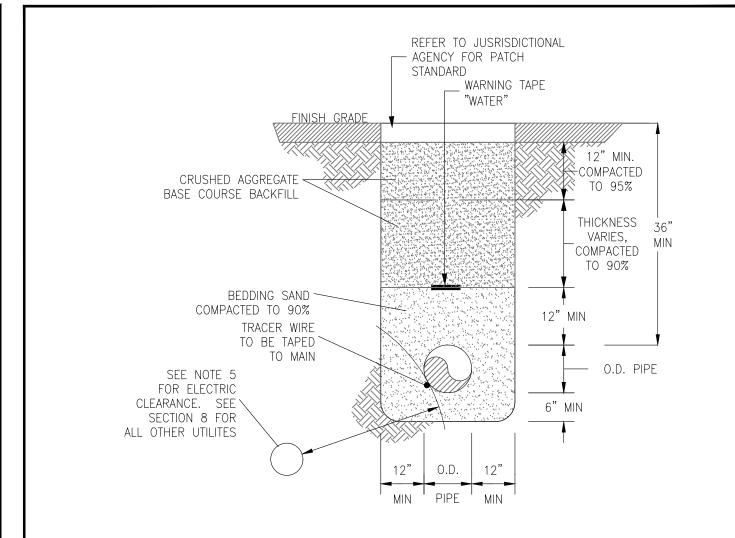
4. FRAME & GRATE SHALL BE D&L I—9226 OR APPROVED EQUAL.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

BE PLACED ON 6" COMPACTED DRAIN ROCK.

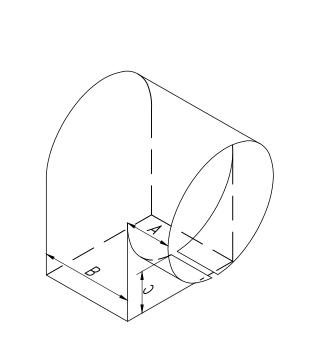
SEPARATOR OR APPROVED EQUAL.

. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" CLEAR COVER.



- ALL TRENCHES MUST CONFORM TO APPLICABLE TMWA, CITY, STATE, COUNTY, AND OSHA SPECIFICATIONS AND REQUIREMENTS. IN THE CASE OF CONFLICT, THE MORE RIGID SPECIFICATION OR STANDARD SHALL APPLY.
- . BEDDING SAND SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER SECTION 5.05.03 AND SHALL BE A MINIMUM OF 12" ABOVE AND 6" BELOW THE MAIN. PER SECTION 5 OF TMWA STANDARDS
- 3. CRUSHED AGGREGATE BASE COURSE BACKFILL SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS. THE TOP 12" SHALL BE COMPACTED TO 95% MAXIMUM DENSITY. THE AREA ABOVE THE BEDDING SAND & BELOW 12" FROM FINISH GRADE SHALL BE COMPACTED TO 90% MAXIMUM DENSITY. PER SECTION 5 OF TMWA STANDARDS.
- 4. NON-METALLIC BLUE WARNING TAPE SHALL BE PLACED IN ALL TRENCHES AT LEAST 12" ABOVE THE WATER MAIN. 5. ELECTRIC UTILITIES MUST BE LOCATED BELOW WATER & MAINTAIN 2' MINIMUM RADIAL CLEARANCE FROM TMWA WATER FACILITIES. IF 2' RADIAL CLEARANCE CAN NOT BE MET ELECTRIC CONDUIT MUST BE CONCRETE ENCASED AT LEAST 18" EACH SIDE OF WATER CROSSING. FIBER OPTIC AND/OR COMMUNICATION CONDUITS SHALL NOT BE PLACE IN THE SAME TRENCH AS WATER.
- ALL CHANGES MUST BE APPROVED BY THE TMWA INSPECTOR AND/OR THE TMWA ENGINEER. SEPARATION FOR PIPES IN A JOINT TRENCH SHALL BE A MINIMUM OF 12".
- TRACER WIRE SHALL BE #14 COPPER CLAD STAINLESS STEEL CORE WITH 30 MILS BLUE HDPE INSULATION. ALL WIRE SPLICES SHALL BE MADE USING A SPLIT BOLT CONNECTOR WRAPPED WITH AQUASEAL AND ELECTRIC TAPE. THE CONTRACTOR SHALL INSTALL A 3 POUND ANODE AT EVERY TEST STATION. TEST STATIONS SHALL BE LOCATED ALONG THE MAIN NO MORE THAN 500 FEET APART. REFER TO 10L-9.

# TRENCH DETAIL WATER ONLY



DIMENSIONS				
SIZE	Α	В	С	
4"	3"	3"	3"	
6"	4"	5"	4"	
8"	4"	6.5"	4"	
10"	4"	8"	4"	
12"	5"	10"	4"	
15"	6"	10.5"	6.5"	

- ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
- 2. INSTALL OIL/WATER SEPARATOR WITH THE BOTTOM EDGE PARALLEL TO THE WATER SURFACE AND THE RECTANGULAR OPENING FACING DOWNWARD AND THE CIRCULAR END PLACED INSIDE THE OUTLET PIPE.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DRAWING No.			
City of	CATCH BASIN OIL/	S-208	
sparks	WATER SEPARATOR	APPROVED BY: JE	DATE: 1/2020



**TE0003U** 

#### FINISH GRADE SEE NOTES 4, 5 & 6 FINISH GRADE ∾ warning TAPE 0.D. 0 H SEE NOTE 4.51 SEE NOTE 7 SEE NOTES 4, 5 & 6 WARNING 1 WARNING O.D. TAPE (TV) TAPE -SEE-12" MIN NOTES 10, 13, 10, 11, 16 & 17 16 & 17 0.D.

TYPICAL SERVICE TRENCH DETAILS

#### TYPICAL SECONDARY / SERVICE TRENCH ELECTRIC ONLY

#### **ENGINEERING NOTES:**

- A. If utilities on this page are not in a oint trench as shown, raise trench depths and co□ply with □ini□u□ depths and clearances referenced in Typical Trench Details 1-19.
- B. All trenches □ ust be approved by NVE prior to any construction.

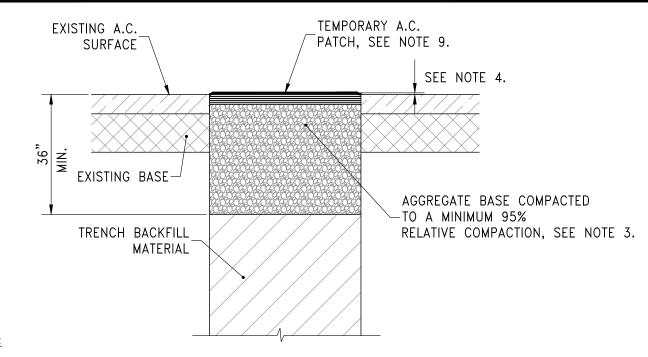
#### TYPICAL SERVICE TRENCH JOINT TRENCH APPLICATION

#### UTILITY DESIGNATION AND <u>LEGEND</u>

TP TELEPHONE G GAS TV CABLE TV E ELECTRIC

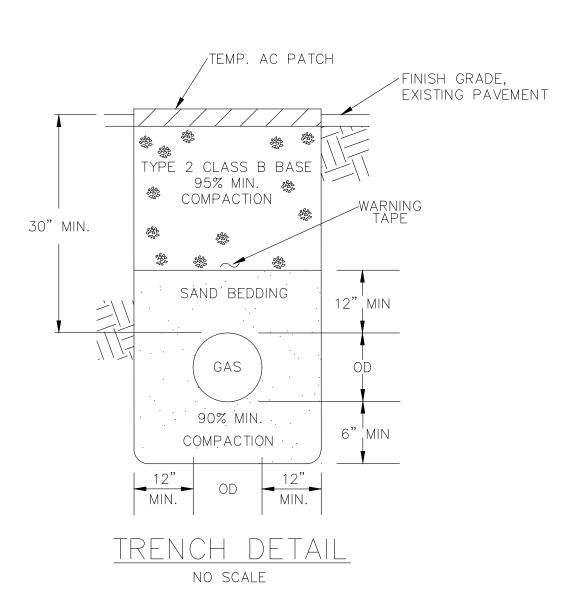
©.D. □OUTSIDE DIAMETER

			VOLUME 17 – ENGINEERING & CONSTRUCTION STANDARD	TE0003U	
			TYPICAL TRENCH PETALLO		
			TYPICAL TRENCH DETAILS		
awn:	Eng:	Appr:	Date:		Revision: 6
BSP	NP	DA	07/19		Page 3 of 4
	_	_			-



- PRIOR TO EXCAVATION, THE OUTLINE OF THE TRENCH SHALL BE VERTICALLY CUT FULL DEPTH THROUGH THE EXISTING ASPHALT SURFACE.
- CARE SHALL BE EXERCISED TO PREVENT SLOUGHING AND OVERBREAK. IF THE TRENCH SLOUGHS, THE SURFACE SHALL BE WIDENED TO ELIMINATE THE UNDERMINED SECTION OF ASPHALT.
- AGGREGATE BASE UNDER TEMPORARY PATCH SHALL BE A MINIMUM THICKNESS OF 36 INCHES BELOW THE EXISTING AC SURFACE. AGGREGATE BASE MATERIAL UNDER TEMPORARY PATCH SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200, AS ADOPTED BY CITY COUNCIL.
- TEMPORARY PATCHES SHALL BE PLACED AND COMPACTED. THE COMPACTED PATCH SHALL BE APPROXIMATELY 1/8" TO 1/4" ABOVE THE LEVEL OF THE ADJACENT PAVEMENT. IF NOT PATCHED WITHIN 24 HOURS AFTER BACKFILLING, THE CITY MAY PATCH AND BACK-CHARGE THE PERMITTEE FOR ALL COSTS.
- COMPACTION OF BACKFILL, BASE AND A.C. TEMPORARY PATCH SHALL BE PERFORMED WITH APPROVED MECHANICAL TAMPERS. EQUIPMENT WHEEL ROLLING IS NOT PERMITTED.
- ENTIRE AREA SHALL BE CLEANED OF ALL DIRT, DUST, DEBRIS, ETC. BEFORE LEAVING SITE. ANY SITE LEFT UNCLEANED WILL BE CLEANED BY THE CITY AND ALL COSTS BACK-CHARGED TO THE CONTRACTOR.
- ALL EXCAVATIONS SHALL BE COMPLETE OR BACKFILLED AT THE END OF THE SHIFT, INCLUDING TEMPORARY PATCH.
- TEMPORARY PATCH WORK AND PATCH MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. ALL TEMPORARY PATCHES ON ALL STREETS SHALL BE HOT-MIX ASPHALT A MINIMUM OF 3" THICK.
- 10. PLATES MAY BE USED UPON APPROVAL FROM THE CITY ENGINEER.

STANDARD DETAII	DRAWING No.		
City of	TEMPORARY A.C.	S-116	
	TRENCH PATCH	APPROVED BY: JE	DATE: 1/2020



 $\Delta$ LANS CIVIL AVE DETA

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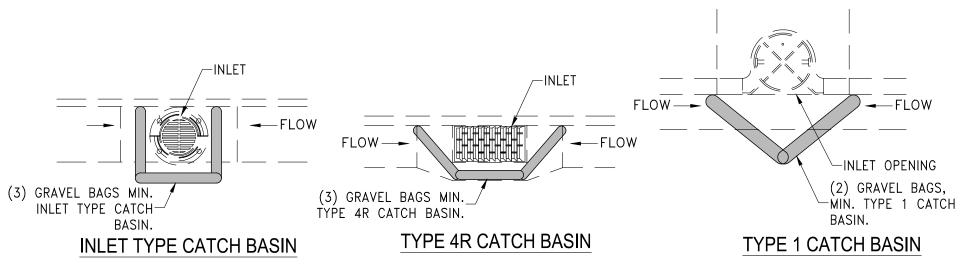
federal law Designed by: Checked by: Job No.

SHEET 20 OF 32

- 2. TOTAL DISTURBED AREA IS APPROXIMATELY 0.60 AC.
- 3. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD. CONSTRUCTION DEBRIS OR OTHER POTENTIAL POLITIANTS THAT MAY HAVE BEEN DISCHARGED TO OR ACCUMULATE IN THE PUBLIC RIGHTS OF WAYS OF THE CITY OF WINNEMUCCA AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- 4. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS REQUIRED BY THE CITY OF WINNEMUCCA. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK AND USE IT AS A GUIDE.
- 5. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORMWATER GENERAL PERMIT NVR100000, PART 3.6.
- 6. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.1.g.
- 7. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 25 PERCENT OR MORE.
- 8. A COPY OF THE NOTICE OF INTENT (NOI), LETTER OF AUTHORIZATION FROM NDEP, AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON SITE AT ALL TIMES. CONTRACTOR SHALL FOLLOW REQUIREMENTS SET FORTH IN THE SWPPP AND THE CONSTRUCTION STORMWATER GENERAL PERMIT AT ALL TIMES.
- 9. NOT ALL BMP DETAILS ARE SHOWN ON THIS PLAN. CONTRACTOR SHALL EITHER ASK THE ENGINEER FOR ADDITIONAL DETAILS OR LOCATE THEM IN THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.
- 10. THE CONTRACTOR SHALL PROVIDE AND ERECT A SWPPP SIGN INCLUDING THE SITE ID, A CONTACT NAME, AND A CONTACT PHONE

NUMBER IN ACCORDANCE WITH STORMWATER GENERAL PERMIT NVR1000000 PART 2.7.

- 11. THE CONTRACTOR SHALL CHOOSE AND IMPLEMENT PERIMETER STORMWATER EROSION CONTROL BMPS THAT CONFORM TO THE STAGE AND TYPE OF WORK BEING PERFORMED. SILT FENCES, STRAW WATTLES, OR EXCAVATION OF THE SITE BELOW ADJACENT CURB AND/OR SIDEWALK ARE ALL MEASURES THE CONTRACTOR CAN UTILIZE TO MINIMIZE SEDIMENT DISCHARGE FROM THE SITE. THE CONTRACTOR SHALL IMPLEMENT PERIMETER STORMWATER CONTROLS UNTIL SUCH TIME AS AREAS RECEIVE FINAL STABILIZATION OR VEGETATION HAS BEEN SUFFICIENTLY RE-ESTABLISHED.
- 12. THE CONTRACTOR SHALL UPDATE THIS EROSION CONTROL PLAN AND THE SWPPP ON A CONTINUOUS BASIS DURING CONSTRUCTION AND SHALL PROVIDE NOTATION AS TO BMP INSTALLATION, RELOCATION, REMOVAL, ETC. THROUGHOUT THE COURSE OF CONSTRUCTION.
- 13. NOT ALL BMPS IDENTIFIED ON THIS PLAN WILL BE INSTALLED AT ANY GIVEN STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY INSTALLATION DATE OF BMP ON THIS PLAN AND SHALL UPDATE THE PLAN AS REQUIRED AS BMPS SHOWN ARE INSTALLED OR ALTERNATE BMPS ARE IDENTIFIED AS NECESSARY DURING CONSTRUCTION.
- 14. STORM DRAIN INLET CONTROLS SHALL BE IMPLEMENTED PRIOR TO THE START OF SITEWORK FOR EXISTING INLETS. NEW INLETS SHALL BE PROTECTED FROM THE TIME OF INSTALLATION UNTIL FINAL STABILIZATION IS COMPLETE.
- 15. BMPS ON INDIVIDUAL LOTS SHALL BE CHOSEN AND DENOTED ON THE EROSION CONTROL PLANS AND SWPPP AS CONSTRUCTION CONDITIONS WARRANT.
- 16. THIS SITE IS ADJACENT TO A MAJOR DRAINAGEWAY THE CONTRACTOR SHALL EXERCISE CAUTION TO ENSURE THAT DISCHARGES TO THE DRAINAGEWAY TO NOT OCCUR INCLUDING BUT NOT LIMITED TO REDUNDANT BMPS AND SEDIMENTATION BASINS.
- 17. THE CONTRACTOR IS TO BECOME FAMILIAR WITH THE EROSION CONTROL MEASURES BEING UTILIZED FOR THE CLUBHOUSE CONSTRUCTION UNDER SEPARATE PERMIT. THE CONTRACTOR SHALL COORDINATE ALL REVISIONS AND/OR ADDITIONAL EROSION CONTROL MEASURES DURING CONSTRUCTION.
- 18. THE CONTRACTOR IS TO IMPLEMENT AND MAINTAIN A CONTINUOUS DUST CONTROL PLAN DURING CONSTRUCTION.



NOTES:

1. ALL STORM DRAIN INLET PROTECTION SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION. ALL SITE BMP PLACEMENT AND MAINTENANCE SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

WOOD STAKE — 3/4"x3/4"

INSTALL 4' O.C.

STRAW WATTLE

8" MINIMUM

MINIMUM

**L K** 

WOOD STAKE -

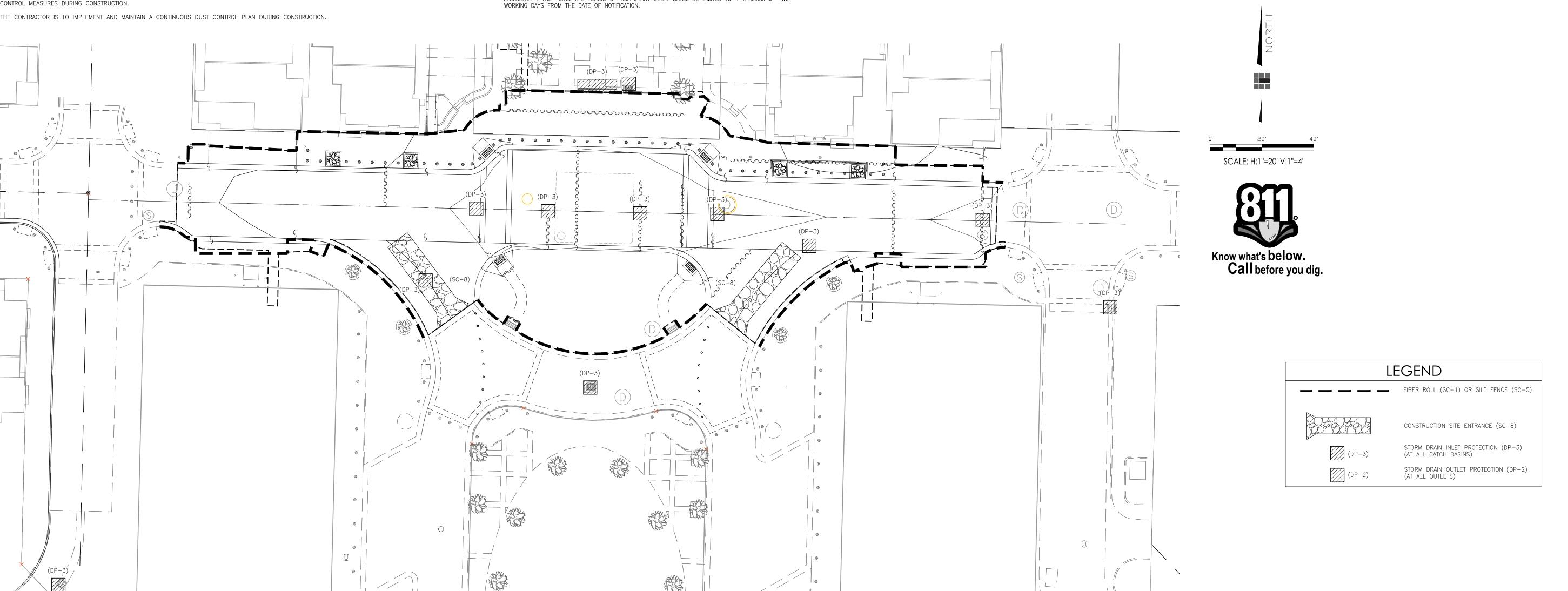
STRAW WATTLE BMP

- 2. THE CONTRACTOR SHALL INSPECT THE SITE DAILY. PRIOR TO FORECASTED WEATHER EVENTS AND WITHIN 24 HOURS OF ANY EVENT THAT CREATES RUNOFF AT THE SITE. DISTURBED OR BROKEN BAGS SHALL BE REPLACED. SEDIMENT AND DEBRIS SHALL BE REMOVED AND DISPOSED.
- 3. GRAVEL BAGS:
  - BAGS SHALL BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMITE FABRIC, MIN. WEIGHT 40z/SY, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRA VIOLET STABILITY EXCEEDING 70%.
- EACH GRAVEL-FILLED BAG SHALL HAVE A MIN. LENGTH OF 30", MIN. WIDTH OF 8" AND MIN. THICKNESS OF 4".
- GRAVEL SHALL BE BETWEEN ½" TO 1" IN DIAMETER AND CLEAN AND FREE FROM CLAY BALLS, ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.
- 4. AFTER CONSTRUCTION WHEN GRAVEL BAGS ARE REMOVED, ALL CONSTRUCTION MATERIAL, DEBRIS, SEDIMENT, ETC. SHALL BE REMOVED FROM INLET OR CATCH BASIN BY VACUUM TRUCK.
- 5. INLETS IN CENTER OF TRAVELED WAY MAY BE PROTECTED WITH FABRIC FILTER INSERTS.

#### STORM DRAIN INLET PROTECTION

#### ARCHEOLOGICAL STATEMENT:

SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO



NOTE: THIS EROSION CONTROL PLAN IS PART OF A LARGER LIVING DOCUMENT, THE STORMWATER POLLUTION PREVENTION PLAN AND SHALL BE UPDATED IN THE FIELD ON A REGULAR BASIS DURING INSPECTIONS AS CONDITIONS WARRANT. REFERENCE BEST MANAGEMENT PRACTICE (BMP) DETAILS IN THESE PLANS, WITHIN THE STORMWATER POLLUTION PREVENTION PLAN, AND THE STATE OF NEVADA (NDEP) CONSTRUCTION SITE BMP HANDBOOK (FEBRUARY 2015 UPDATE)

- STRAW WATTLES

10' ALONG SI OPF

K K K K K

7 7 A

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#### **ELECTRICAL SYMBOL LIST**

	ELECTRICAL STIVIBUL LIST
	CONDUIT RUN IN OR ON CEILING OR WALL
	CONDUIT RUN IN OR UNDER FLOOR OR UNDERGROUND
	HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT. NO MARKS INDICATE 2 #12'S. DOES NOT INCLUDE GROUND WIRE. IF NON-METALLIC CONDUIT ADD GROUND PER NEC.
 LA-1	LONG SLASH WITH HASH MARKS AS SHOWN INDICATES GROUND WIRE FOR ISOLATED GROUNDING SYSTEM. SIZE PER N.E.C.
	HOMERUN TO PANEL WITH PANEL AND CIRCUIT INDICATED
A-(1, 3, 5)	HOMERUN TO PANEL WITH CIRCUIT NUMBER IN BRACKETS INDICATING MULTI-POLE BREAKER.
—— UGP——	UNDERGROUND POWER LINE
ON HA-6	"ON" INDICATES CIRCUITING IS SPLIT AT DIFFERENT LOCATIONS
0_0	TWIN HEAD POLE MOUNTED LIGHT FIXTURE WITH SOUND SYSTEM SPEAKER
•	POST TOP MOUNTED LIGHT FIXTURE
<b>Ø</b>	BOLLARD LIGHT FIXTURE
TC	TIME CLOCK
$\Theta$	120V SINGLE CONVENIENCE RECEPTACLE, 15AMPS
⊭	120V DUPLEX CONVENIENCE RECEPTACLE +18" AFF
<b>=</b>	120V DOUBLE DUPLEX CONVENIENCE RECEPTACLE +18" AFF
0	JUNCTION BOX AS REQUIRED BY NATIONAL ELECTRIC CODE
	JUNCTION BOX - FLUSH FLOOR TYPE - AS REQUIRED BY NATIONAL ELECTRIC CODE
	ELECTRICAL PANELBOARD - SURFACE MOUNTED
	ELECTRICAL PANELBOARD - FLUSH MOUNTED
	SERVICE OR DISTRIBUTION EQUIPMENT
T	TRANSFORMER
	AUXILIARY SYSTEM TERMINAL CABINET
	PRECAST CONCRETE PULLBOX (SIZE AS INDICATED)
M	REMOTE METER ENCLOSURE +6'-0" AFG TO CENTERLINE
$\langle 1 \rangle$	SHEET NOTE
A 90	LIGHT FIXTURE DESIGNATION & WATTAGE. SEE FIXTURE SCHEDULE
B E3.1 A100	DETAIL DESIGNATION - "B" INDICATES DETAIL # ON SHEET E3.1  ROOM NUMBER
x	EXISTING WIRE AND/OR CONDUIT TO BE REMOVED OR ABANDONED
——E—	EXISTING WIRE AND/OR CONDUIT TO REMAIN
<sup>∨</sup> □ <u></u>	DASHED DEVICES, LIGHT FIXTURES, ETC. EXISTING TO BE REMOVED
	"E" ADJACENT TO DEVICES, LIGHT FIXTURES, ETC. INDICATES EXISTING TO REMAIN

- NOTE: ALL MOUNTING HEIGHTS AS INDICATED UNLESS NOTED OTHERWISE.
  - ALL SYMBOLS MAY NOT BE USED ON PROJECTS.

AFG	ABOVE FINISHED GRADE
_	0=1,1==1,11,1=

CENTERLINE

CU COPPER

EMPTY CONDUIT WITH PULL WIRE

FURNISHED BY OTHER SECTION

GROUND FAULT INTERRUPTING

NATIONAL ELECTRICAL CODE

NOT IN CONTRACT

NVE **NV ENERGY** 

PNL PANEL

UNLESS NOTED OTHERWISE

**UNSW** UNSWITCHED

W/ WITH

WEATHERPROOF (NEMA 3R)

TRANSFORMER XFMR

### **ELECTRICAL GENERAL NOTES**

- 1. FURNISH ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
- 2. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE NEVADA, WASHOE COUNTY AND CITY OF SPARKS CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, IBC, UL, IEEE STANDARDS.
- 3. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING. OR NOTED OTHERWISE ON OTHER SHEETS.
- 4. UTILITIES SHOWN TO BE DEMOLISHED SHALL NOT BE REMOVED FROM SERVICE UNTIL EITHER OF THE FOLLOWING EVENTS OCCUR: A) THE FACILITY SERVED BY THE UTILITY IS NO LONGER OCCUPIED AND IS READY FOR DEMOLITION. OR B) EQUIVALENT SERVICE BY NEW UTILITY CONSTRUCTION HAS BEEN PROVIDED TO THE FACILITY CURRENTLY SERVICED. UNLESS OTHERWISE NOTED.
- 5. ANY POWER OUTAGE OF ANY CIRCUIT SHALL BE APPROVED BY THE OWNER IN WRITING A MINIMUM OF TWO WEEKS PRIOR TO OUTAGE. ALL OUTAGES SHALL BE DONE EXACTLY WHEN DETERMINED BY THE OWNER AND DONE BEFORE OR AFTER WORKING HOURS AND ON WEEKENDS. NO SINGLE OUTAGE SHALL REQUIRE MORE THAN 4 HOURS. PROVIDE TEMPORARY POWER, HEAT & COOLING IF REQUIRED DURING OUTAGE.
- 6. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO BID.
- 7. PULL ROPES: PROVIDE 12 GA PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
- 8. APPEARANCE AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND STANDARDS.
- 9. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- 10. VERIFY THE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- 11. ORDER AND/ OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
- 12. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES. ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
- 13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT TIME OF CONSTRUCTION.
- 14. ALL WIRE SHALL BE COPPER.
- 15. ALL UNDERGROUND CONDUIT SHALL BE WRAPPED RIGID STEEL WITH THREADED COUPLINGS AND CONNECTORS, AND/ OR PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE RIGID STEEL CONDUIT.
- 16. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.
- 17. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING, PUMPING, COMP ACTION TESTS, ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.

DINTER 385 Gentry Way Reno, NV 89502 Ph: 775.826.4044 Fax: 775.826.4190 Web: dinter.com J-4715

& PROCKIEN

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Check	ed by:	ERG
Job No	 ).	1594.001

DRAWING

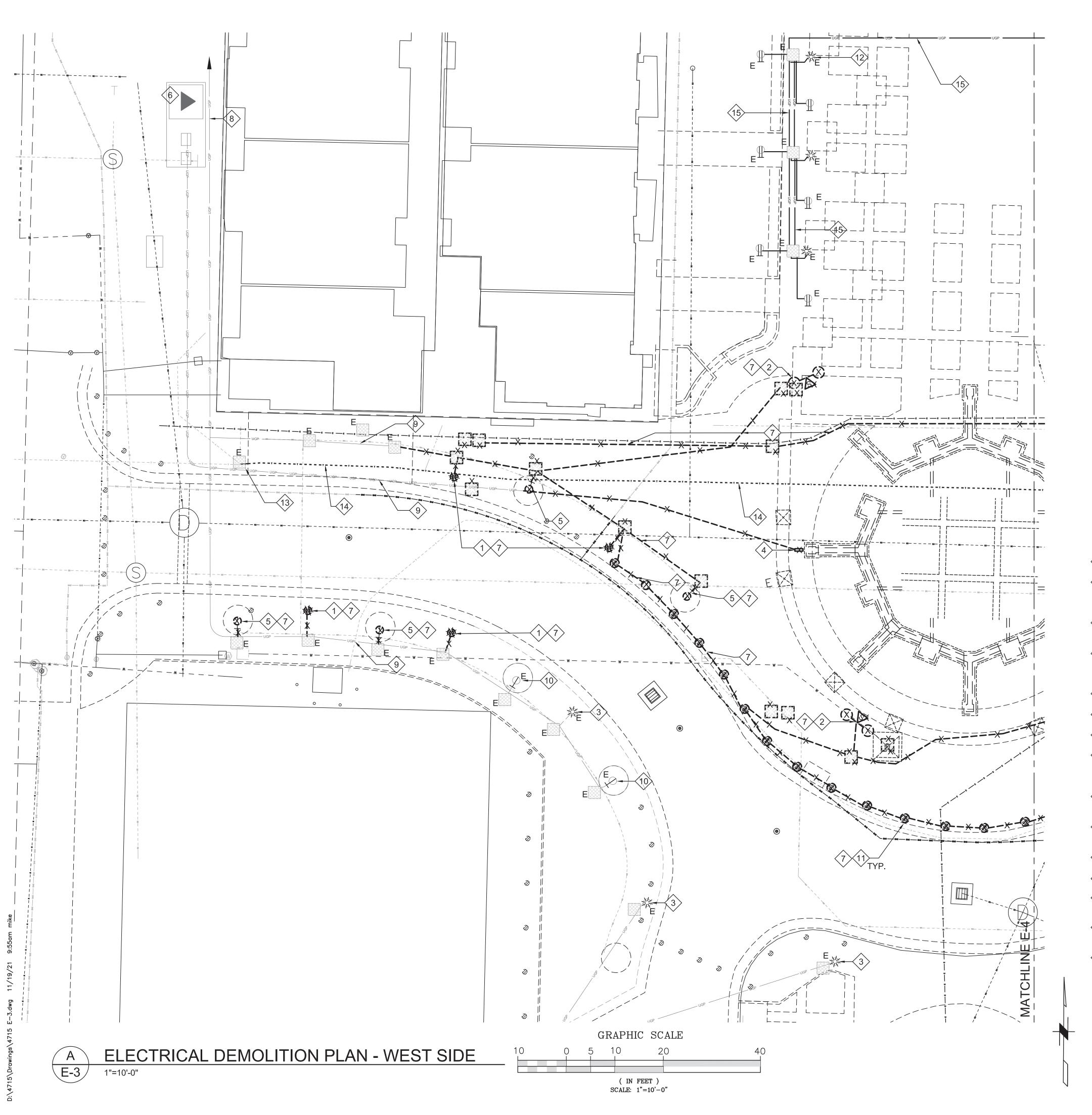
SHEET 22 OF 32

CIVIL IMPROVEMENT PLANS FOR AVENUE OF THE OAKS REALIGNMENT ELECTRICAL SITE PLAN CITY OF SPARKS

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Designed by: Checked by: ERG

SHEET 23 OF 32



### **GENERAL DEMOLITION NOTES**

1. ELECTRICAL OUTLETS AND DEVICES THAT ARE INDICATED BY DASHED LINES SHALL BE REMOVED ENTIRELY, INCLUDING JUNCTION BOXES AND CIRCUITING ASSOCIATED WITH SAID ITEM.

2. THESE PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/REROUTED OR REMOVED ENTIRELY AS DICTATED BY CONTRACTING OFFICER

- 3. ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO GOVERNMENT FOR SALVAGE. EQUIPMENT SELECTED SHALL BE TURNED OVER TO GOVERNMENT ON PROJECT SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
- 4. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT SITE AND VERIFY EXISTING CONDITIONS THAT MIGHT AFFECT HIS OR HER WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BID.
- 5. DEMOLITION AND MODIFICATION OF EXISTING DISTRIBUTION SYSTEMS SHALL BE PERFORMED AS FOLLOWS:
  - A. EXISTING WIRING TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUITS MAY BE ABANDONED IN PLACE IF THEY ARE IN CONCEALED LOCATION AND DO NOT CONFLICT WITH ANY NEW WORK. REMOVE ALL WIRING FROM ABANDONED RACEWAYS.
  - B. REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM SHALL INCLUDE EQUIPMENT, ASSOCIATED WIRING, INCLUDING (BUT NOT LIMITED TO) CONDUCTORS, CABLES, EXPOSED CONDUIT, SURFACE RACEWAYS, BOXES, FITTINGS, ETC. (BACK TO EQUIPMENT SOURCE.)
  - C. CONTINUATION OF SERVICE: MAINTAIN CONTINUITY OF EXISTING CIRCUITS. TEST LIGHTING, RECEPTACLES AND ALL ELECTRICALLY POWERED EQUIPMENT IN SURROUNDING AREAS TO DETERMINE IF ANY EQUIPMENT TO REMAIN HAS BEEN DE-ENERGIZED. CONTRACTOR SHALL RECONNECT ALL EQUIPMENT AND EXTEND CIRCUITING IN ORDER TO RE-ACTIVATE ANY SUCH EQUIPMENT

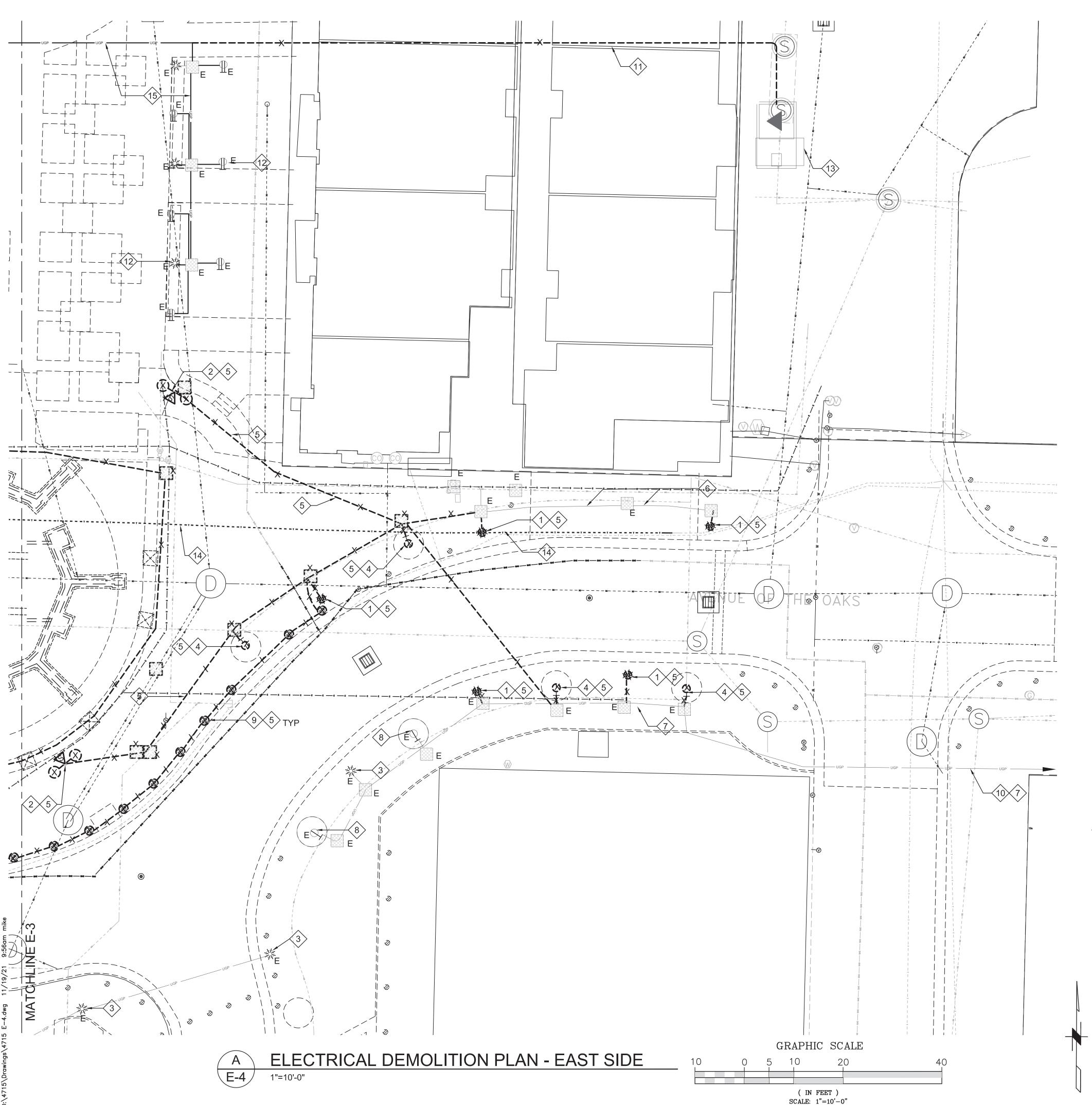
#### SHEET NOTES

- 1>REMOVE EXISTING LIGHT POLE AND FIXTURE.
- (2) REMOVE EXISTING LIGHT POLE, FIXTURE AND SPEAKER. REMOVE CONDUITS AND CONDUCTORS. SEE DEMOLITION NOTE #3 FOR LIGHT POLE, FIXTURE AND SPEAKERS.
- 3 EXISTING LIGHT POLE AND FIXTURE TO REMAIN. ENSURE LIGHT FIXTURE IS OPERATIONAL WHEN PROJECT IS FINISHED.
- 4 REMOVE EXISTING EVENT POWER STATION, TO BE RELOCATED. DO NOT REMOVE ANY CONDUCTORS, NEW ROADWAY MANHOLE TO BE INSTALLED IN THIS LOCATION
- (5) REMOVE RECEPTACLES LOCATED IN PLANTER BOX.
- (6) EXISTING TRANSFORMER & POWER DISTRIBUTION CABINET TO REMAIN.
- 7 REMOVE EXISTING CONDUIT AND CONDUCTORS.
- (8) EXISTING CONDUIT AND CONDUCTORS TO EXISTING LIGHTING CONTROLLER AT CORNER OF VICTORIAN PLAZA CIRCLE AND 13TH STREET TO REMAIN.
- 9 EXISTING CONDUIT AND CONDUCTORS TO REMAIN. DISCONNECT ITEMS MARKED FOR DEMOLITION.
- (10) EXISTING RECEPTACLES LOCATED IN PLANTER BOX TO REMAIN. ENSURE RECEPTACLE IS OPERATIONAL WHEN PROJECT IS FINISHED.
- (11) REMOVE EXISTING LIGHTED BOLLARD.
- 12 EXISTING LIGHTS AND RECEPTACLES TO REMAIN.
- (13) AT&T VAULT TO REMAIN. VERIFY WITH CIVIL ANY WORK NEEDING TO BE DONE WITH NEW GRADE.
- 44 AT&T FIBER OPTIC DUCT BANK TO BE REMOVED BY AT&T ANTICIPATED TO BE COMPLETE PRIOR TO START OF WORK.
- (15) EXISTING CONDUCTOR AND CONDUIT TO REMAIN. DISCONNECT FROM EXISTING SOURCE, TO BE RECONNECTED TO NEW SOURCE.



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### **GENERAL DEMOLITION NOTES**

- ELECTRICAL OUTLETS AND DEVICES THAT ARE INDICATED BY DASHED LINES SHALL BE REMOVED ENTIRELY, INCLUDING JUNCTION BOXES AND CIRCUITING ASSOCIATED WITH SAID ITEM.
- 2. THESE PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/REROUTED OR REMOVED ENTIRELY AS DICTATED BY CONTRACTING OFFICER.
- 3. ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO GOVERNMENT FOR SALVAGE. EQUIPMENT SELECTED SHALL BE TURNED OVER TO GOVERNMENT ON PROJECT SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
- 4. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT SITE AND VERIFY EXISTING CONDITIONS THAT MIGHT AFFECT HIS OR HER WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BID.
- 5. DEMOLITION AND MODIFICATION OF EXISTING DISTRIBUTION SYSTEMS SHALL BE PERFORMED AS FOLLOWS:
  - A. EXISTING WIRING TO BE REMOVED SHALL BE REMOVED BACK TO ITS SOURCE. CONDUITS MAY BE ABANDONED IN PLACE IF THEY ARE IN CONCEALED LOCATION AND DO NOT CONFLICT WITH ANY NEW WORK. REMOVE ALL WIRING FROM ABANDONED RACEWAYS.
  - B. REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION SYSTEM SHALL INCLUDE EQUIPMENT, ASSOCIATED WIRING, INCLUDING (BUT NOT LIMITED TO) CONDUCTORS, CABLES, EXPOSED CONDUIT, SURFACE RACEWAYS, BOXES, FITTINGS, ETC. (BACK TO EQUIPMENT SOURCE.)
  - C. CONTINUATION OF SERVICE: MAINTAIN CONTINUITY OF EXISTING CIRCUITS. TEST LIGHTING, RECEPTACLES AND ALL ELECTRICALLY POWERED EQUIPMENT IN SURROUNDING AREAS TO DETERMINE IF ANY EQUIPMENT TO REMAIN HAS BEEN DE-ENERGIZED. CONTRACTOR SHALL RECONNECT ALL EQUIPMENT AND EXTEND CIRCUITING IN ORDER TO RE-ACTIVATE ANY SUCH EQUIPMENT.

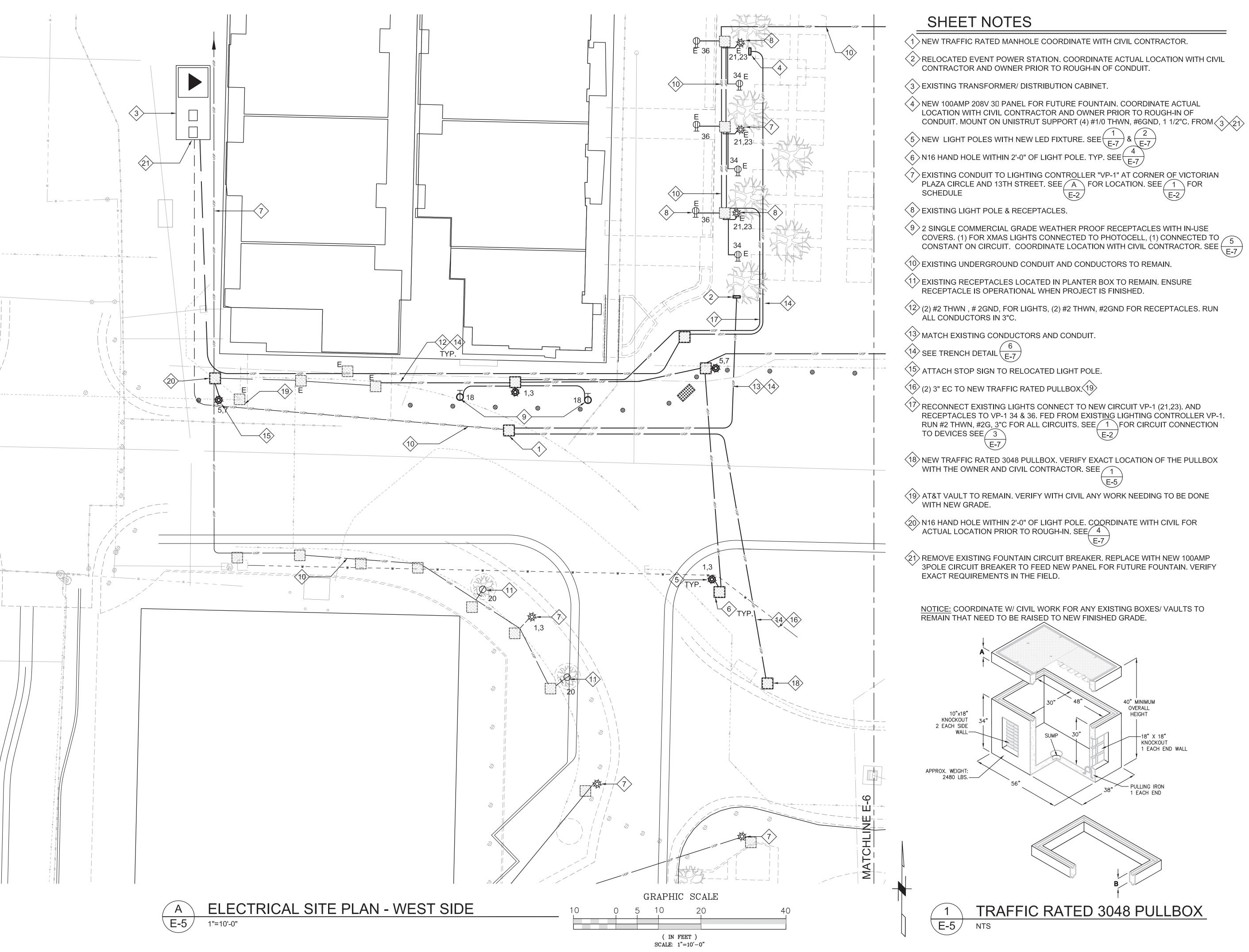
#### SHEET NOTES

- (1) REMOVE EXISTING LIGHT POLE AND FIXTURE.
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- $\langle 3 \rangle$  EXISTING LIGHT POLE AND FIXTURE TO REMAIN. ENSURE LIGHT FIXTURES IS OPERATIONAL WHEN PROJECT IS FINISHED
- 4 REMOVE RECEPTACLES LOCATED IN PLANTER BOX.
- (5) REMOVE EXISTING CONDUIT AND CONDUCTORS.
- igg(6igg) REMOVE EXISTING CONDUCTORS, CONDUIT TO REMAIN..
- (7) EXISTING CONDUIT AND CONDUCTORS TO REMAIN. DISCONNECT ITEMS MARKED FOR DEMOLITION.
- (8) EXISTING RECEPTACLES LOCATED IN PLANTER BOX TO REMAIN. ENSURE RECEPTACLE IS OPERATIONAL WHEN PROJECT IS FINISHED.
- 9 REMOVE EXISTING LIGHTED BOLLARD.
- (10) EXISTING CONDUIT AND CONDUCTORS TO LIGHTING CONTROLLER AT D ST. NORTH OF PARKING GARAGE TO REMAIN.
- 11) DISCONNECT AND REMOVE CONDUCTORS. LEAVE CONDUITS IN PLACE.
- $\langle 12 
  angle$  EXISTING LIGHTS AND RECEPTACLES TO REMAIN.
- 13> EXISTING TRANSFORMER & POWER CABINET TO REMAIN.
- (14) AT&T FIBER OPTIC DUCT BANK TO BE REMOVED BY AT&T ANTICIPATED TO BE COMPLETE PRIOR TO START OF WORK.
- (15) EXISTING CONDUCTOR AND CONDUIT TO REMAIN. DISCONNECT FROM EXISTING SOURCE, TO BE RECONNECTED TO NEW SOURCE.

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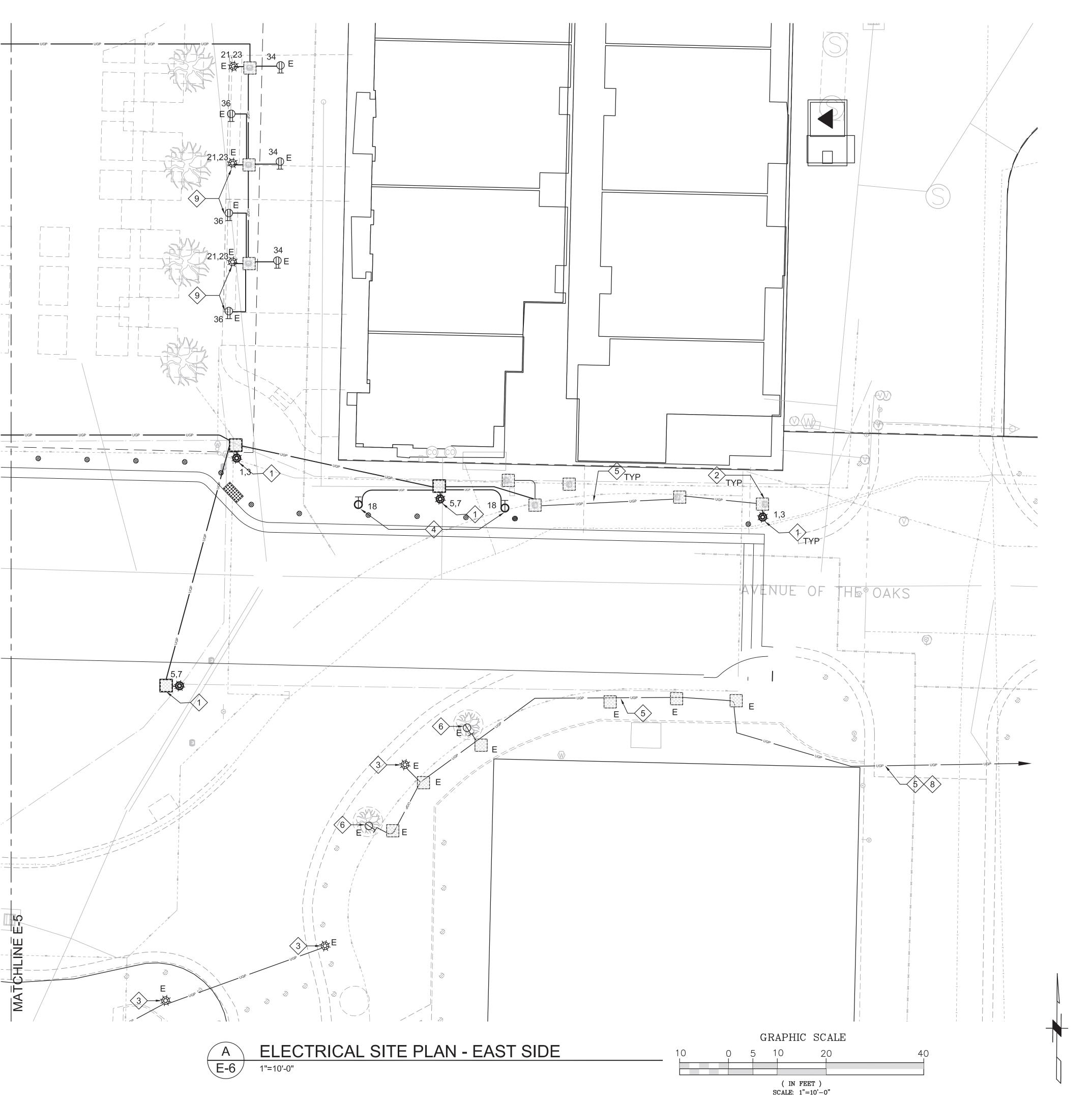
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1 NEW LIGHT POLES WITH NEW LED FIXTURE. SEE  $\begin{pmatrix} 1 \\ E-7 \end{pmatrix}$ 

2 N16 HAND HOLE WITHIN 2'-0" OF LIGHT POLE. TYP. SEE 4 E-7

(3) EXISTING LIGHT POLE.

4 2 SINGLE COMMERCIAL GRADE WEATHER PROOF RECEPTACLES WITH IN-USE COVERS. (1) FOR XMAS LIGHTS CONNECTED TO PHOTOCELL, (1) CONNECTED TO CONSTANT ON CIRCUIT. COORDINATE LOCATION WITH CIVIL CONTRACTOR. SEE 5

(5) EXISTING UNDERGROUND CONDUIT AND CONDUCTORS TO REMAIN.

6 EXISTING RECEPTACLES LOCATED IN PLANTER BOX TO REMAIN. ENSURE RECEPTACLE IS OPERATIONAL WHEN PROJECT IS FINISHED.

(2) #2 THWN , # 2GND, FOR LIGHTS, (2) #2 THWN, #2GND FOR RECEPTACLES. RUN ALL CONDUCTORS IN 3"C. SEE TRENCH DETAIL.

8 EXISTING CONDUIT AND CONDUCTORS TO LIGHTING CONTROLLER AT D ST. NORTH OF CITY PARKING GARAGE.

9 RECONNECT EXISTING LIGHTS CONNECT TO NEW CIRCUIT VP-1 (21,23). AND RECEPTACLES TO VP-1 34 & 36. FED FROM EXISTING LIGHTING CONTROLLER VP-1. FOR CIRCUIT CONNECTION TO DEVICES SEE 3

NOTICE: COORDINATE W/ CIVIL WORK FOR ANY EXISTING BOXES/ VAULTS TO REMAIN THAT NEED TO BE RAISED TO NEW FINISHED GRADE.



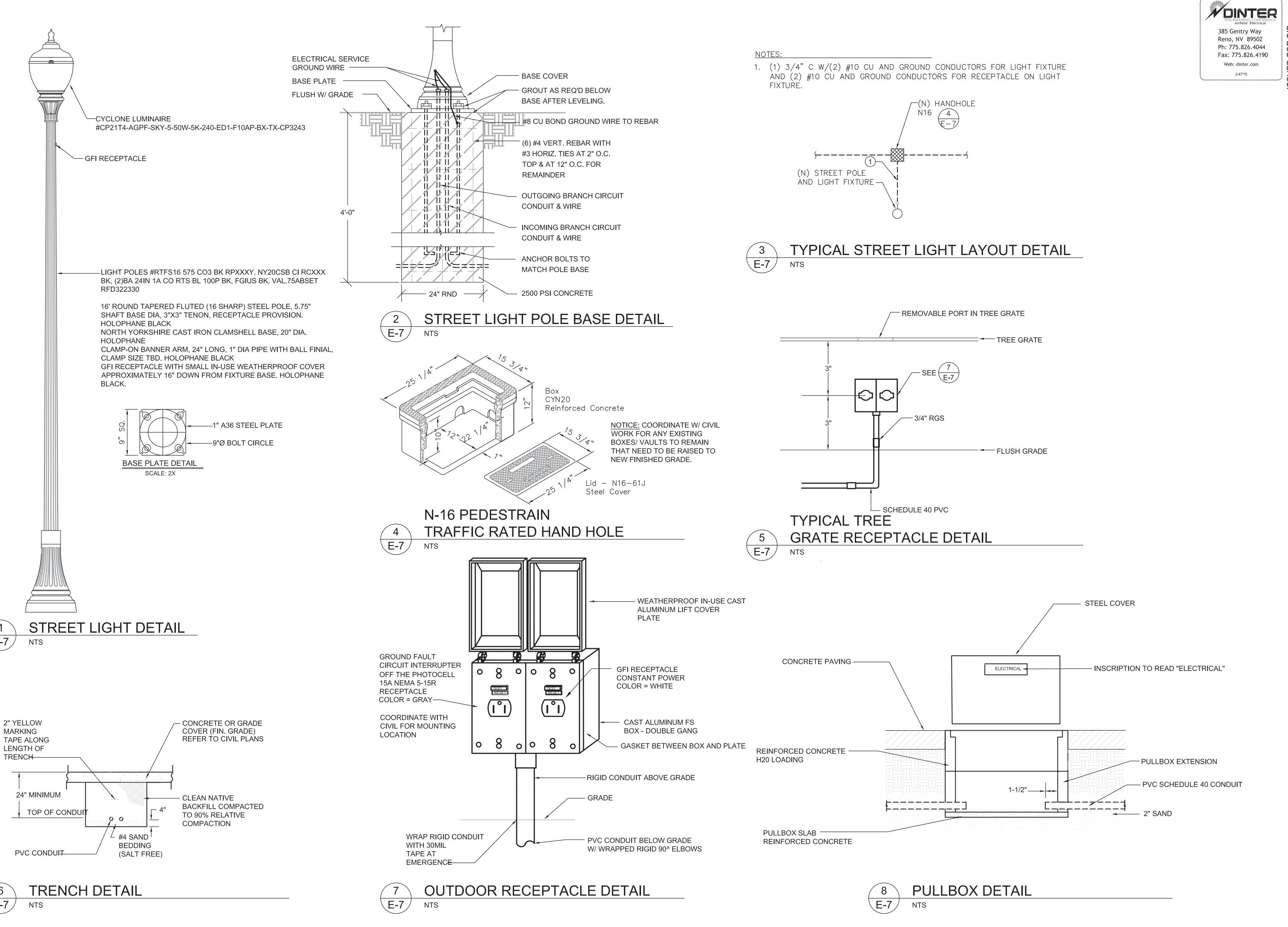
CIVIL IMPROVEMENT PLANS AVENUE OF THE OAKS

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SHEET 27 OF 32



E-7

E-7

PLANS OAKS CIVIL IMPROVEMENT AVENUE OF THE

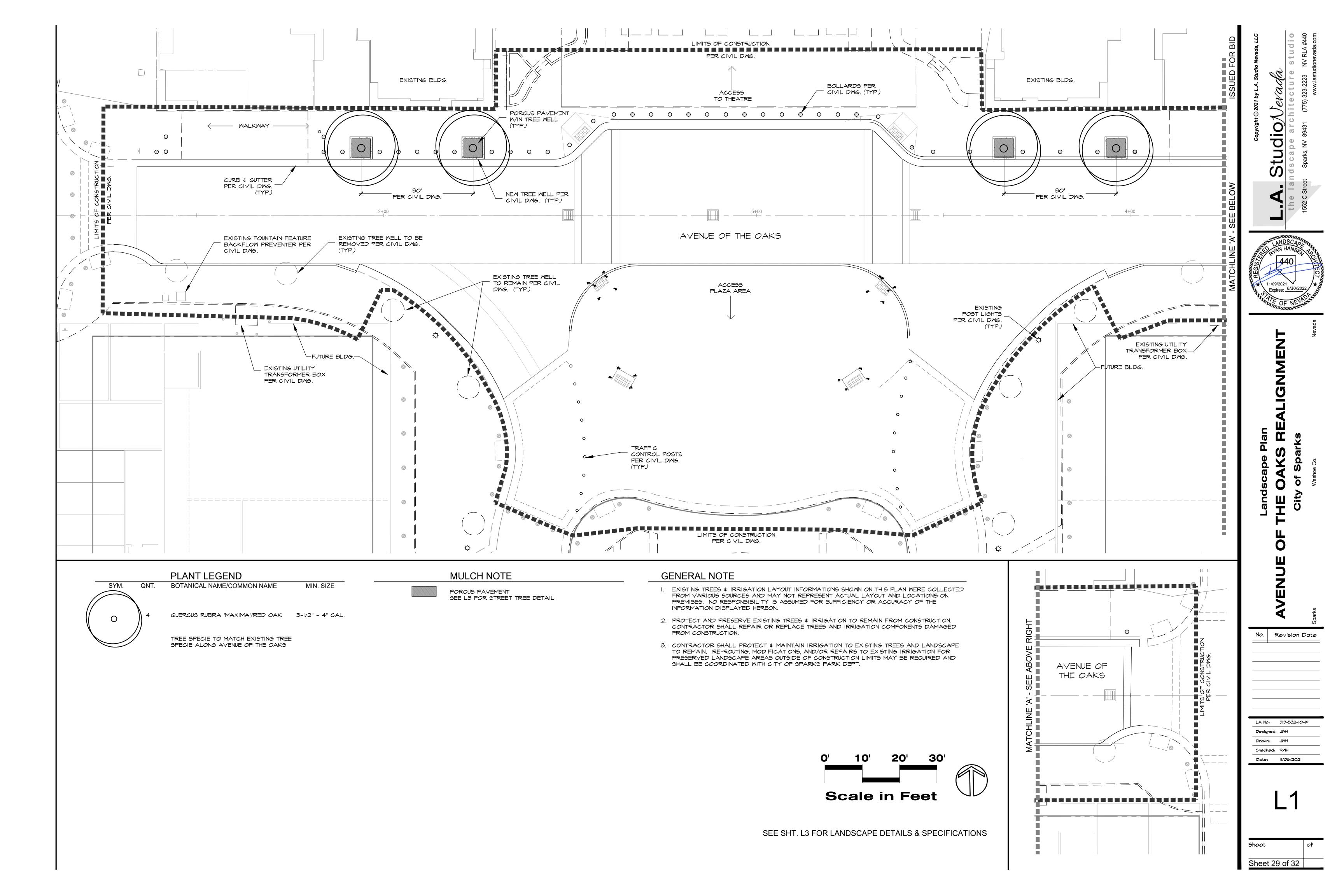
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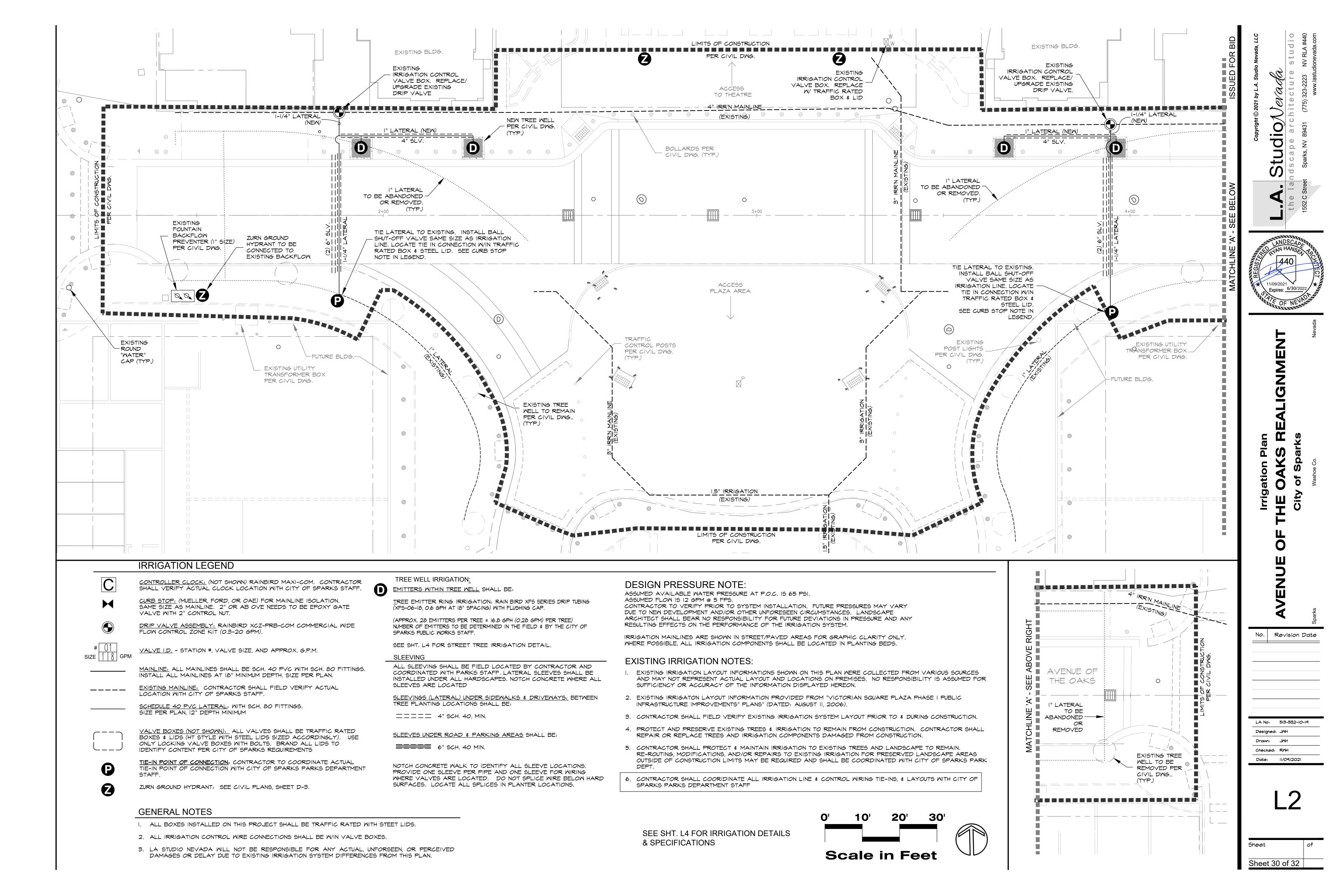
11/09/2021 MWB Designed by: Checked by: ERG

Job No.

DRAWING

SHEET 28 OF 32







5 NOT USED

4 NOT USED

FAILURE TO RECEIVE PRIOR APPROVAL MAY RESULT IN REJECTION OF PLANT MATERIAL FOLLOWING INSTALLATION. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT

AND EVALUATE PLANT MATERIAL THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD.

6 LANDSCAPE SPECIFICATIONS

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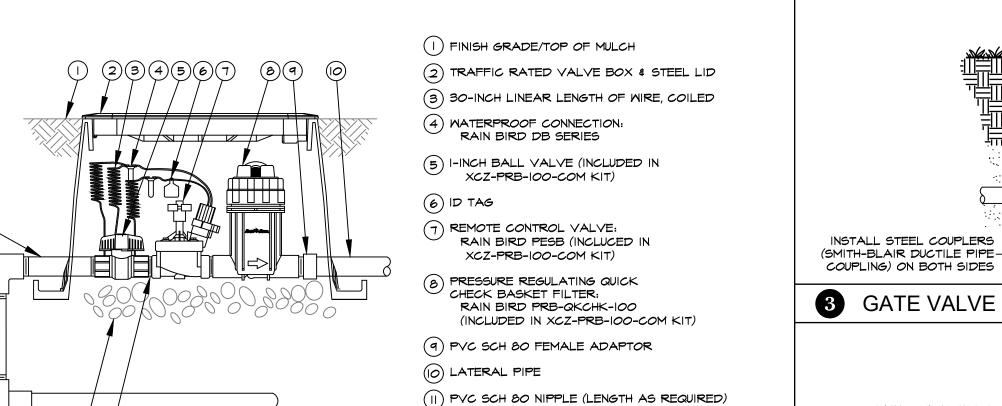
INSTALLATION. PROPOSED SUBSTITUTIONS WILL RESULT IN NO ADDED COST.

Revision Date

Drawn: JMH Checked: RWH

Date: 11/09/2021

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XCZ-PRB-100-COM I" COMMERCIAL CONTROL ZONE KIT IN SQUARE VALVE BOX

(3) PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 FI I PVC SCH 40 ELL (14) PVC SCH 80 TEE OR ELL (15) SCH 40 MAINLINE PIPE WITH SCH 80 FITTINGS

(12) PVC SCH 80 ELL

(6) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XC7-PRB-100 CONTEST) XCZ-PRB-100-COM KIT)

DRIP LINE SHOULD

SEE STREET TREE

IRRIGATION DETAIL.

BE IN DG.

5 GENERAL NOTES

NOT TO SCALE

4 REMOVABLE FLUSH CAP

DRAIN GRATE PER STREET

TREE IRRIGATION DETAIL.

MAX.

BALL VALVE

SET AT GRADE.

NOT TO SCALE

NOT TO SCALE

1 TRENCH DETAIL/CONTROLLER WIRING

6" MIN.

NOT TO SCALE

NOT TO SCALE

2 DRIP VALVE ASSEMBLY

**IRRIGATION SPECIFICATIONS** 

BE AS INDICATED ON THE PLAN.

DETERMINED BY OWNER'S REPRESENTATIVE.

PLANTING OF TREES, SHRUBS, OR OTHER PLANTINGS.

HUMPS, OR OTHER IRREGULARITIES.

TRENCHES WHEREVER POSSIBLE.

IRRIGATION COMPONENTS AND DRAIN VALVES.

LOCAL CODES ARE MET.

COST TO OWNER.

TRAFFIC RATED VALVE -BOX & STEEL LID FLUSH W/

GRADE

**EXTENSIONS** 

SEE INSTRUCTIONS ON

3/4" GRAVEL 6" DEEP

DETAIL

I. PLAN IS DIAGRAMMATIC ONLY. FINAL LOCATION OF LINES AND HEADS SHALL BE

DETERMINED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE. LINES

SHALL BE IN A COMMON TRENCH WHEREVER POSSIBLE. THE POINT-OF-CONNECTION SHALL

2. THE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND ENSURE THAT ALL

3. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL PERMITS REQUIRED FOR

4. CONTRACTOR SHALL VERIFY AVAILABLE FLOW AND PRESSURE DOWNSTREAM FROM THE

POINT-OF-CONNECTION PRIOR TO SYSTEM INSTALLATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF AVAILABLE FLOW IS LESS THAN REQUIRED TO

RUN THE LARGEST ZONE. CONTRACTOR SHALL NOT PROCEED ANY FURTHER WITH INSTALLATION OF THE SYSTEM UNTIL NECESSARY DESIGN REVISIONS HAVE BEEN

5. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON

THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR

DIFFERENCES IN DIMENSIONS EXIST THAT MIGHT HAVE BEEN UNKNOWN DURING ENGINEERING.

SUCH OBSTRUCTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR

SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL

7. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL IRRIGATION MATERIAL,

INCLUDING PIPE, WITH THE LANDSCAPE DRAWINGS TO AVOID INTERFERING WITH THE

9. ALL ELECTRICAL WIRE FROM CONTROLLER TO VALVES SHALL BE 12 GAUGE UL DIRECT

IO. BACKFILL FOR TRENCHING SHALL BE COMPACTED TO A DRY DENSITY EQUAL TO THE

12. CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED

CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND

COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF

CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.

THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL

IS. INSTALL ALL PIPE AND CONTROL WIRES IN LANDSCAPE BEDS AND IN COMMON

14. INSTALL ALL PIPE AND CONTROL WIRE, WHICH RUNS UNDER PAVING, WITHIN SCH. 40 PVC

SLEEVES 4" DIA. MINIMUM SIZE AS REQUIRED TO ALLOW INSTALLATION WITHOUT BINDING.

15. PIPING SHALL BE COMPLETELY FLUSHED OF FOREIGN PARTICLES BEFORE ATTACHING

16. AFTER FLUSHING, AND WHEN ALL VALVES AND QUICK COUPLERS ARE IN PLACE, ALL MAIN SUPPLY LINES SHALL BE TESTED AT 100 POUNDS PER SQUARE INCH (100 PSI) WITH

VALVES CLOSED. MAINTAIN PRESSURE FOR A PERIOD OF NOT LESS THAN (4) CONSECUTIVE

17. OPERATIONAL TESTING: PERFORM OPERATIONAL TESTING AFTER HYDROSTATIC TESTING IS COMPLETED. DEMONSTRATE TO THE OWNER'S REPRESENTATIVE THAT THE

SYSTEM MEETS COVERAGE REQUIREMENTS (100%) AND THAT AUTOMATIC CONTROLS

18. MATERIALS LIST: WITHIN (15) DAYS AFTER AWARD OF CONTRACT, SUBMIT TO OWNER'S

PROVIDE (I) SLEEVE PER PIPE. PROVIDE SEPARATE SLEEVES FOR CONTROL WIRE.

HOURS. ALL JOINTS SHOWING LEAKS SHALL BE CLEANED, REMADE, AND TESTED.

ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE

INSTALLATION OF THE IRRIGATION SYSTEM AS DEPICTED ON THESE PLANS.

INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

OF NATURAL GAS LINES, ELECTRICAL CABLES, TELEPHONE CABLES, ETC.

8. ALL VALVES ARE TO BE LOCATED IN PLANTING AREAS WHEREVER POSSIBLE.

BURIAL OR LARGER AS REQUIRED BY LENGTH PER MANUFACTURER'S SPECIFICATIONS.

STREET TREE IRRIGATION

AS REQ'D.

FIN. GRADE

-GATE VALVE .

PER LEGEND

REPRESENTATIVE (3) COPIES OF A COMPLETE MATERIAL LIST (PARTIAL LIST NOT ACCEPTABLE) OF ALL MATERIALS TO BE USED ON THE PROJECT, SPECIFYING

MANUFACTURER, GRADE, TRADE NAME, CATALOG NUMBER, SIZE, ETC. THIS SHALL IN NO WAY BE CONSTRUED AS ALLOWING A SUBSTITUTION FOR ANY ITEM SPECIFIED ON THE PLANS. EQUIPMENT OR MATERIALS INSTALLED OR FURNISHED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE MAY BE REJECTED AND THE CONTRACTOR REQUIRED TO REMOVE THE MATERIALS AT HIS OWN EXPENSE. INSTALLATION AND PERFORMANCE OF APPROVED SUBSTITUTIONS ARE THE CONTRACTORS

SUBSTITUTION MUST BE MADE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO OWNER. 20. PRIOR TO SYSTEM INSTALLATION CONTRACTOR SHALL VERIFY AND SUBMIT TO

RESPONSIBILITY. ANY CHANGES REQUIRED FOR INSTALLATION OF ANY APPROVED

OWNER'S REPRESENTATIVE IN WRITING, AVAILABLE FLOW AND PRESSURE AT POINT-OF-CONNECTION AS DESCRIBED IN SPECIFICATION #4 ABOVE.

MATERIAL (CONTROLLER KEYS, ETC.) SHALL BE DELIVERED TO OWNER. 22. CONTRACTOR SHALL PREPARE AND ISSUE TO THE OWNER (AT COMPLETION OF THE

21. COMPLETE WARRANTY CARDS FOR AUTOMATIC CONTROLLER AND OTHER IRRIGATION

INSTALLATION) AN ANNUAL CHART INDICATING LOCATION, OPERATING DATES, CYCLES, AND TIME FOR EACH ZONE.

ASBUILT IRRIGATION DRAWINGS: CONTRACTOR SHALL FURNISH ASBUILTS OF THE COMPLETE IRRIGATION SYSTEM. PROCURE FROM OWNER'S REPRESENTATIVE DIGITAL COPIES OF CONTRACT DRAWINGS. CONSTRUCTION DRAWINGS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES WHILE THE IRRIGATION SYSTEM IS BEING INSTALLED. CONTRACTOR SHALL MAKE A DAILY RECORD OF ALL WORK INSTALLED DURING EACH DAY. ACTUAL LOCATION OF VALVES AND ALL IRRIGATION AND DRAINAGE PIPING SHALL BE SHOWN ON THE PRINTS BY DIMENSIONS FROM EASILY IDENTIFIED PERMANENT FEATURES, SUCH AS BUILDINGS, CURBS, FENCES, WALKS OR PROPERTY LINES. DRAWINGS SHALL SHOW APPROVED MANUFACTURER'S NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE TO SCALE AND ALL INDICATIONS SHALL BE NEAT. ALL INFORMATION NOTED ON THE PRINT SHALL BE TRANSFERRED TO THE COPIES BY CONTRACTOR AND ALL INDICATIONS SHALL BE RECORDED IN A NEAT, ORDERLY WAY. THE RECORD COPIES SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE AT OR BEFORE FINAL ACCEPTANCE/APPROVAL OF THE

#### GUARANTEE/FINAL ACCEPTANCE

UNDISTURBED ADJACENT SOIL AND SHALL CONFORM TO ADJACENT GRADES WITHOUT DIPS, 24. CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE THE IRRIGATION SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. MANUFACTURER WARRANTIES SHALL ONLY EXCEED THIS GUARANTEE AND CONTRACTOR SHALL BE LIABLE II. A MINIMUM OF TWO WORKING DAYS PRIOR TO PERFORMING ANY DIGGING, CALL FOR REPAIRS/REPLACEMENT OF FAILED MATERIAL/WORKMANSHIP. UNDERGROUND SERVICE ALERT AT 1-800-227-2600 FOR INFORMATION ON THE LOCATION

25. AFTER SYSTEM IS INSTALLED AND APPROVED, INSTRUCT OWNER'S DESIGNATED PERSONNEL IN COMPLETE OPERATION AND MAINTENANCE PROCEDURES. DRAIN ENTIRE SYSTEM AT END OF FIRST WATERING SEASON FOLLOWING INSTALLATION. TRAIN OWNER'S DESIGNATED PERSONNEL BY HAVING THEM ASSIST IN WINTERIZING PROCEDURE.

BACKFILL TO BE WATERED DOWN,

TO 90% RELATIVE COMPACTION,

AND GRADED FLUSH

SPPCO SAND BACKFILL

12" OVER PVC LINES \$

BURIED SIDE-BY-SIDE

AND TAPED AT 15' O.C. 24" DEPTH WITH

ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES AS

-3" MINIMUM HORIZONTAL

SEPARATION BETWEEN PIPES

\$, 3" FROM MAINLINE

MAINLINE.

CONTROL WIRES.

CONTINUOUS DETECTABLE

WARNING TAPE TO BE BURIED

NATIVE ROCK FREE SOIL, COMPACTED

LATERAL LINE TO BE A MINIMUM OF 18" DEEP. SCH 40 PVC, WITH COVER OF SAND BACKFILL ON ALL SIDES OF PIPE.

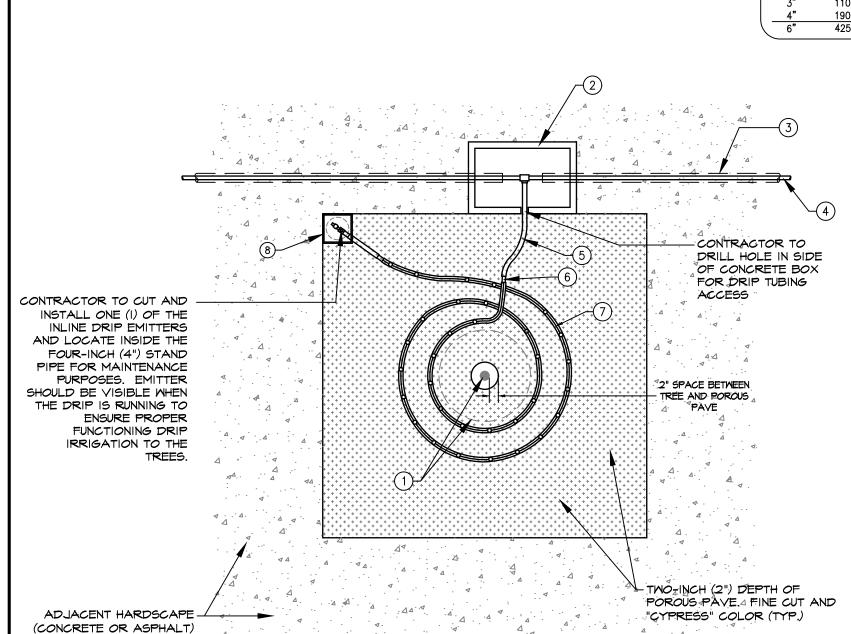
MAINLINE TO BE 24" MIN. DEPTH SCH 40

PVC. 3" MIN. SAND BACKFILL ALL SIDES

TIE A SURPLUS 36" LOOP IN ALL WIRING -

AT CHANGES OF DIRECTION GREATER THAN 30°. UNTIE ALL LOOPS AFTER ALL

CONNECTIONS HAVE BEEN MADE.



7 NOT USED

- (2) CONCRETE BOX: CONTRACTOR TO FURNISH AND INSTALL HTIOIT TRAFFIC RATED CONCRETE BOX WITH STEEL DIAMOND PLATE
- 4) TREE DRIP VALVE LATERAL LINE: PVC SCH 40 DRIP LATERAL LINE PIPING PER IRRIGATION PLAN. INSTALL PER LATERAL LINE
- (5) DRIP DISTRIBUTION TUBING: RAIN BIRD 17MM XF BLANK TUBING. PER DRIP TREE RING STANDARD DETAIL.
- 8 PVC STAND PIPE. INSTALL END OF DRIP RUN I7MM BALL VALVE PER TREE END OF DRIP RUN STANDARD DETAIL

NOT TO SCALE

- 1 DECIDUOUS TREE PER CITY OF SPARKS STANDARD DETAIL. EDGE OF ROOT BALL AND TREE TRUNK
- 3 IRRIGATION SLEEVE: TWO-INCH (2") PVC SCH 40 IRRIGATION SLEEVE FROM TREE TO TREE LOCATION. CONTRACTOR TO INSTALL WITH NO MORE THAN TWO (2) SWEEPS.
- TRENCHING STANDARD DETAIL
- 6 DRIP FITTINGS: I7MM BARBED INLINE TEE FITTING (TYP.) PER DRIP TREE RING STANDARD DETAIL.
- 7) DRIP TREE SPIRAL: RAIN BIRD ITMM XFS DRIP TUBING (0.6 6PH AT 18" SPACING)

6 STREET TREE IRRIGATION DETAIL

PER CIVIL DWG.

DRAIN GRATE FOR ACCESS: CONTRACTOR TO FURNISH AND INSTALL NDS 640 (6"x6"x4") DRAIN GRATE OVER FOUR-INCH (4")

9 IRRIGATION SPECIFICATIONS

FUNCTION PROPERLY.

NOT TO SCALE

8 NOT USED