State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

PROVO 4TH DISTRICT COURT PARKING EXPANSION DFCM PROJECT NO. 08229150

SHEET INDEX

SHEET	NAME
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C-101	LAYOUT AND GRADING
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E-101	ELECTRIC PLAN

PROJECT NOTES

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF DFCM AND PROVO CITY. IN ADDITION, ALL WORK SHALL COMPLY WITH THE PROJECT DRAWINGS AND PROJECT SPECIFICATIONS. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

2. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE TO COORDINATE WITH APPROPRIATE AUTHORITIES FOR INSPECTION AND REVIEW OF WORK.

3. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING, BUT NOT LIMITED TO TRENCHING AND SHORING, TRAFFIC CONTROL AND SECURITY.

4. CONSTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.

5. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS OF UTILITIES COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION.

6. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POTHOLING A MINIMUM OF 300 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGN PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POT HOLE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO OWNER.

7. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (I.E. PIPES, STRUCTURES, ETC.) DURING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.

8. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL, AND NOTIFY ENGINEER OF ANY PROBLEMS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAINING OR RESTORING ALL MONUMENTS AND MONUMENT REFERNCE MARKS WITHIN THE PROJECT SITE.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EROSION CONTROL 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.

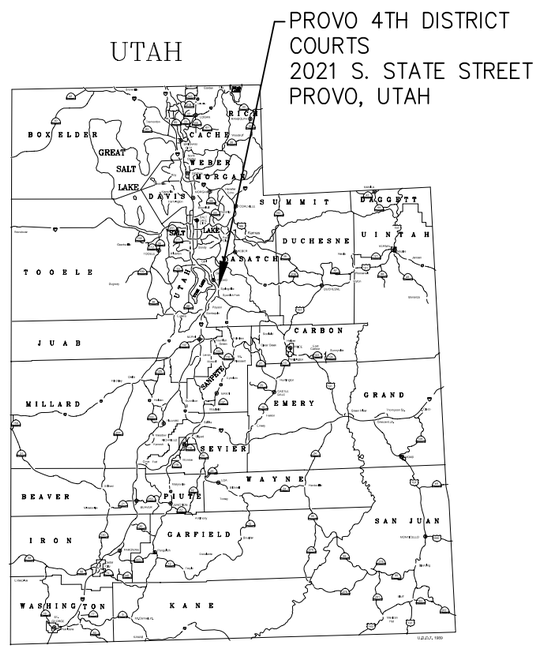
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT, UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE COURTS BUILDING AT ALL TIME.

11. ALL TRAFFIC CONTROL (I.E. SIGNAGE, STRIPING AND PAVEMENT MARKINGS) SHALL CONFORM TO THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

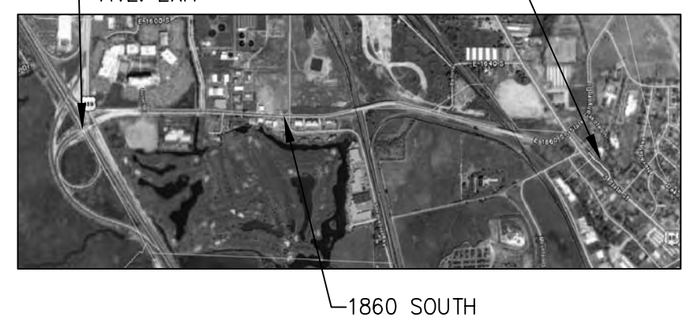
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND STAKING.

13. THE CONTRACTOR SHALL NOTIFY COURTS AND DFCM STAFF 48 HOURS PRIOR TO EXCAVATING.

14. THE CONTRACTOR SHALL PROVIDE AND ON-SITE TOILET FOR THE DURATION OF THE PROJECT.



VICINITY MAP



LOCATION MAP

King Engineering, Inc.
2825 E Cottonwood Parkway
Salt Lake City, Utah 84121
Phone: 801.990.3170
Fax: 801.990.3293
Internet: www.pavementmanagement.com

CREATED BY: KING ENGINEERING, INC.

REGISTERED PROFESSIONAL ENGINEER #179735 JONATHAN E. KING STATE OF UTAH

SITE/LOCATION:

PROVO 4TH DISTRICT COURTS 2021 S STATE PROVO, UTAH

PROJECT TITLE:

PARKING EXPANSION

MARK	DATE	DESCRIPTION

ISSUE TYPE: 100%

ISSUE DATE: JULY 3, 2008

SLCC PROJECT NO: 08229150

CAD PROJECT NO: 02-XXX

CAD DWG FILE: KE1117NCSSHEET.DWG

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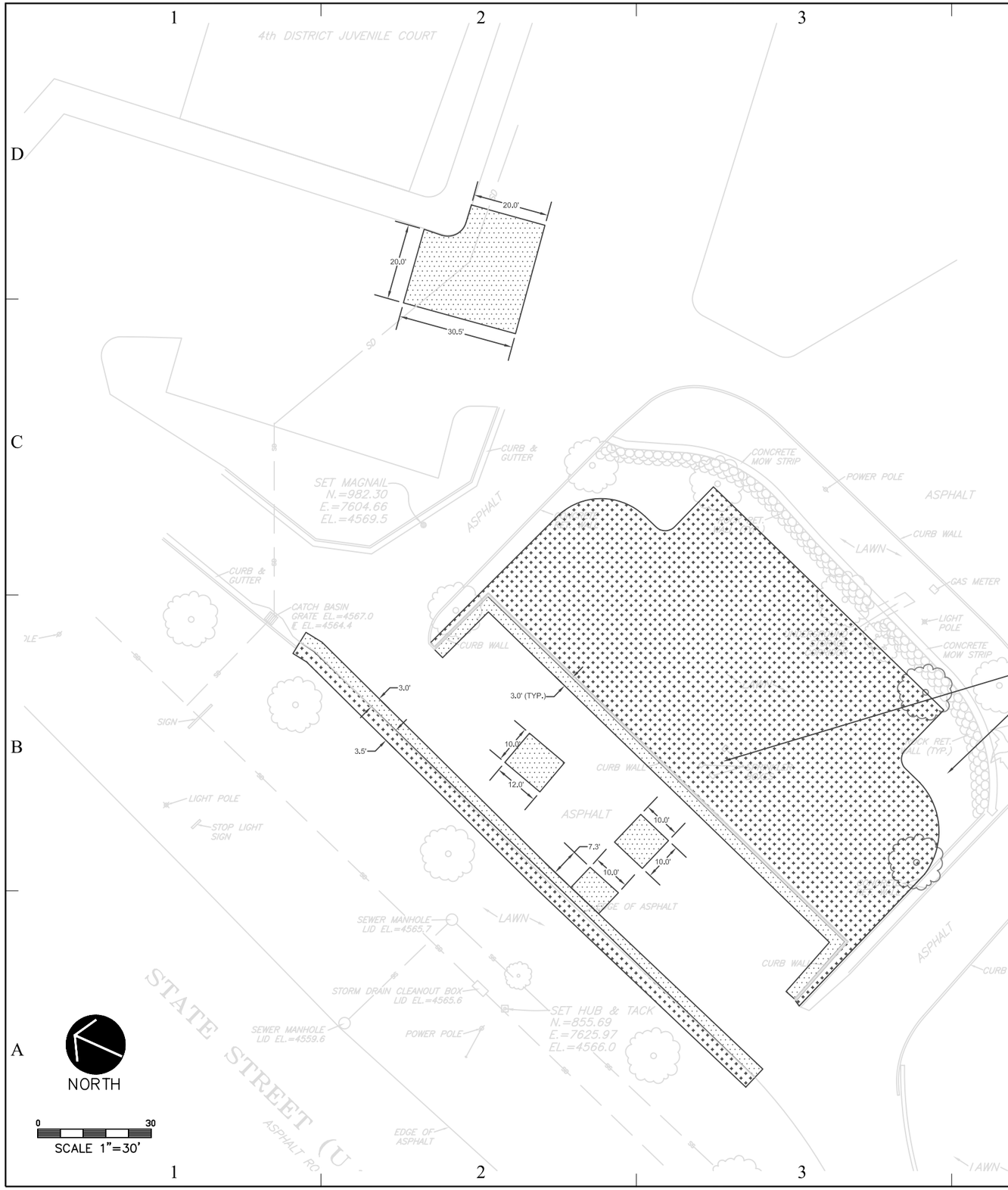
SHEET TITLE

TITLE SHEET

SHEET NUMBER

G-001

SHEET 1 OF 6



RELOCATE IRRIGATION VALVE BOXES, VALVES AND WIRE AND PIPING CONNECTIONS AS-REQUIRED.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL MODIFY THE EXISTING IRRIGATION SYSTEM INCLUDING IRRIGATION PIPE, VALVES, WIRES, CONNECTIONS, DRAINS, HEADS, ETC., TO COVER THE REMAINING SODED AREAS LEFTOVER FROM THE PARKING EXPANSION.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE COURT BUILDING AT ALL TIMES.

3. THE CONTRACTOR SHALL CONTACT BLUE STAKES 48 HOURS IN ADVANCE OF ANY DIGGING AND SHALL POTHOLE ANY INDICATED UTILITIES BEFORE EXCAVATION.

LEGEND

CONTRACTOR TO REMOVE ALL VEGETATION, SOD, TREES, ROOTS, CONCRETE, NATIVE MATERIAL ETC. WITHIN LIMITS TO THE DEPTH OF DESIGN SUBGRADE AND DISPOSE OF AT AN APPROVED FACILITY OFF-SITE. THE OWNER MAY DESIGNATE THE REMOVAL OF BUSHES, TREES AND ROOTS WHOSE DRIPLINE WILL EXTEND ONTO THE PAVEMENT OR CURB AND GUTTER BUT THAT ARE OTHERWISE OUTSIDE OF THE FOOTPRINT OF THE NEW PAVING. THE CONTRACTOR SHALL REMOVE SUCH TREES, BUSHES AND ROOTS AS PART OF THE BASE BID AT NO EXTRA COST TO THE OWNER.

SAW CUT LIMITS OF ALL ASPHALT AND CONCRETE REMOVALS. REMOVE ALL EXISTING CONCRETE, CONCRETE CURB WALL AND ASPHALT AND BASE MATERIAL TO A MINIMUM OF 11" DEPTH WHERE REPLACING PAVEMENT AND TO A 6' DEPTH WHERE NEEDED TO EXPOSE EXISTING SD PIPE. DISPOSE OF REMOVED MATERIALS AT AN APPROVED FACILITY OFF-SITE. SEE DRAWING FOR DIMENSIONS. APPROXIMATELY 1,662 S.F. OF PATCHING SHOWN. THE CONTRACTOR SHALL INCLUDE ANOTHER 500 S.F. OF ADDITIONAL PATCHING AND SAW CUTTING AS PART OF THE BASE BID IN AREAS TO BE DETERMINED FOR A TOTAL OF 2,162 S.F. OF TOTAL PATCHING.

ASPHALT CRACK SEAL

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REGISTERED PROFESSIONAL ENGINEER #9735 JONATHAN E. KING STATE OF UTAH

SITE/LOCATION:

PROVO
4TH DISTRICT
COURTS
2021 S STATE
PROVO, UTAH

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CAD DWG FILE: C-100.DWG
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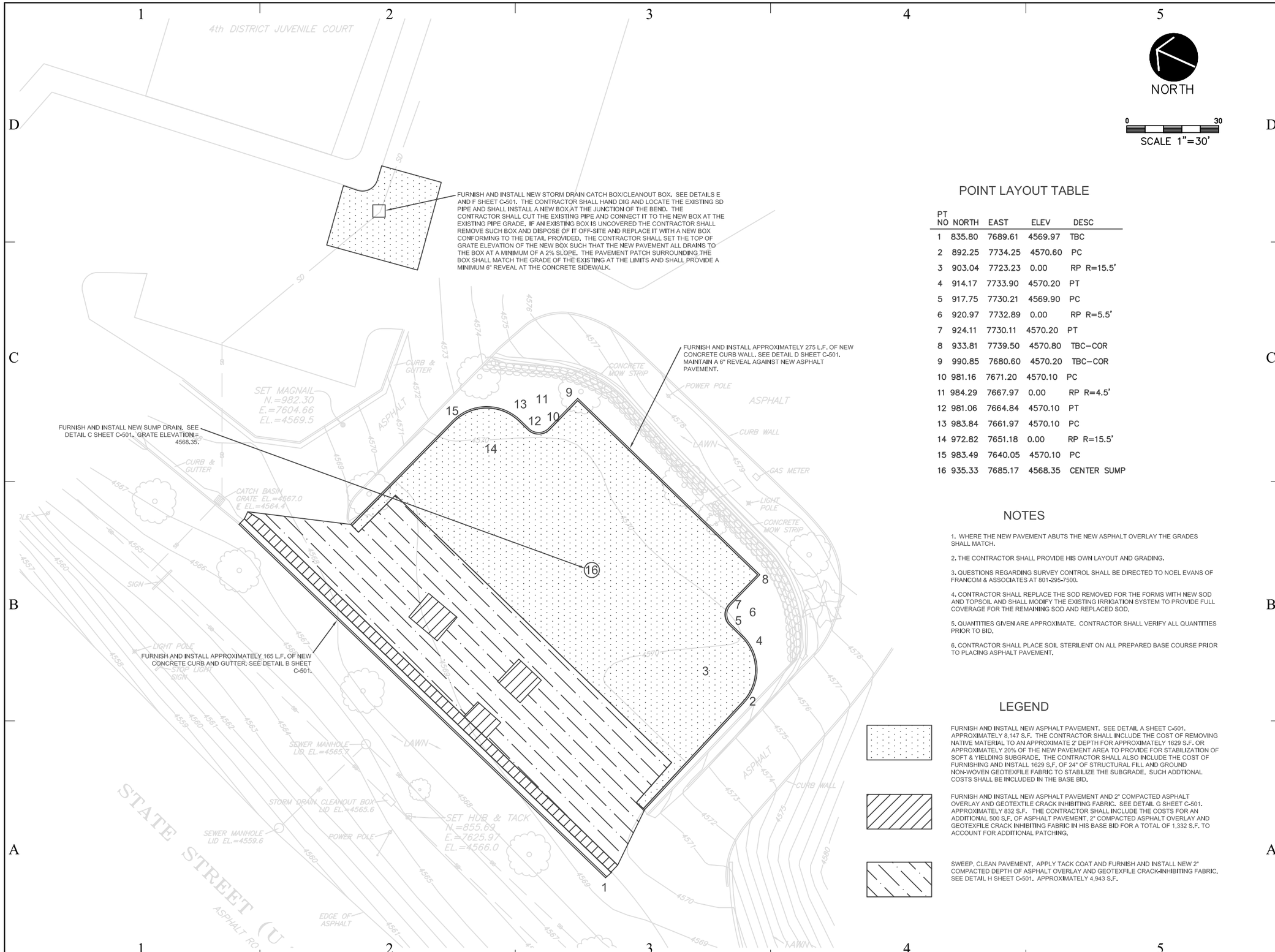
SHEET TITLE

SITE PREPARATION
AND REMOVALS

SHEET NUMBER

C-100

SHEET 2 OF 6



NORTH

SCALE 1"=30'

POINT LAYOUT TABLE

PT NO	NORTH	EAST	ELEV	DESC
1	835.80	7689.61	4569.97	TBC
2	892.25	7734.25	4570.60	PC
3	903.04	7723.23	0.00	RP R=15.5'
4	914.17	7733.90	4570.20	PT
5	917.75	7730.21	4569.90	PC
6	920.97	7732.89	0.00	RP R=5.5'
7	924.11	7730.11	4570.20	PT
8	933.81	7739.50	4570.80	TBC-COR
9	990.85	7680.60	4570.20	TBC-COR
10	981.16	7671.20	4570.10	PC
11	984.29	7667.97	0.00	RP R=4.5'
12	981.06	7664.84	4570.10	PT
13	983.84	7661.97	4570.10	PC
14	972.82	7651.18	0.00	RP R=15.5'
15	983.49	7640.05	4570.10	PC
16	935.33	7685.17	4568.35	CENTER SUMP

NOTES

1. WHERE THE NEW PAVEMENT ABUTS THE NEW ASPHALT OVERLAY THE GRADES SHALL MATCH.

2. THE CONTRACTOR SHALL PROVIDE HIS OWN LAYOUT AND GRADING.

3. QUESTIONS REGARDING SURVEY CONTROL SHALL BE DIRECTED TO NOEL EVANS OF FRANCOM & ASSOCIATES AT 801-295-7500.

4. CONTRACTOR SHALL REPLACE THE SOD REMOVED FOR THE FORMS WITH NEW SOD AND TOPSOIL AND SHALL MODIFY THE EXISTING IRRIGATION SYSTEM TO PROVIDE FULL COVERAGE FOR THE REMAINING SOD AND REPLACED SOD.

5. QUANTITIES GIVEN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID.

6. CONTRACTOR SHALL PLACE SOIL STERILENT ON ALL PREPARED BASE COURSE PRIOR TO PLACING ASPHALT PAVEMENT.

LEGEND

FURNISH AND INSTALL NEW ASPHALT PAVEMENT. SEE DETAIL A SHEET C-501. APPROXIMATELY 8,147 S.F. THE CONTRACTOR SHALL INCLUDE THE COST OF REMOVING NATIVE MATERIAL TO AN APPROXIMATE 2' DEPTH FOR APPROXIMATELY 1629 S.F. OR APPROXIMATELY 20% OF THE NEW PAVEMENT AREA TO PROVIDE FOR STABILIZATION OF SOFT & YIELDING SUBGRADE. THE CONTRACTOR SHALL ALSO INCLUDE THE COST OF FURNISHING AND INSTALL 1629 S.F. OF 24" OF STRUCTURAL FILL AND GROUND NON-WOVEN GEOTEXFILE FABRIC TO STABILIZE THE SUBGRADE. SUCH ADDTIONAL COSTS SHALL BE INCLUDED IN THE BASE BID.

FURNISH AND INSTALL NEW ASPHALT PAVEMENT AND 2" COMPACTED ASPHALT OVERLAY AND GEOTEXTILE CRACK INHIBITING FABRIC. SEE DETAIL G SHEET C-501. APPROXIMATELY 832 S.F. THE CONTRACTOR SHALL INCLUDE THE COSTS FOR AN ADDITIONAL 500 S.F. OF ASPHALT PAVEMENT, 2" COMPACTED ASPHALT OVERLAY AND GEOTEXFILE CRACK INHIBITING FABRIC IN HIS BASE BID FOR A TOTAL OF 1,332 S.F. TO ACCOUNT FOR ADDITIONAL PATCHING.

SWEEP, CLEAN PAVEMENT. APPLY TACK COAT AND FURNISH AND INSTALL NEW 2" COMPACTED DEPTH OF ASPHALT OVERLAY AND GEOTEXFILE CRACK-INHIBITING FABRIC. SEE DETAIL H SHEET C-501. APPROXIMATELY 4,943 S.F.

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JONATHAN E. KING
STATE OF UTAH

SITE/LOCATION:

PROVO
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2021 S STATE
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ISSUE TYPE: 100%

ISSUE DATE: JULY 3, 2008

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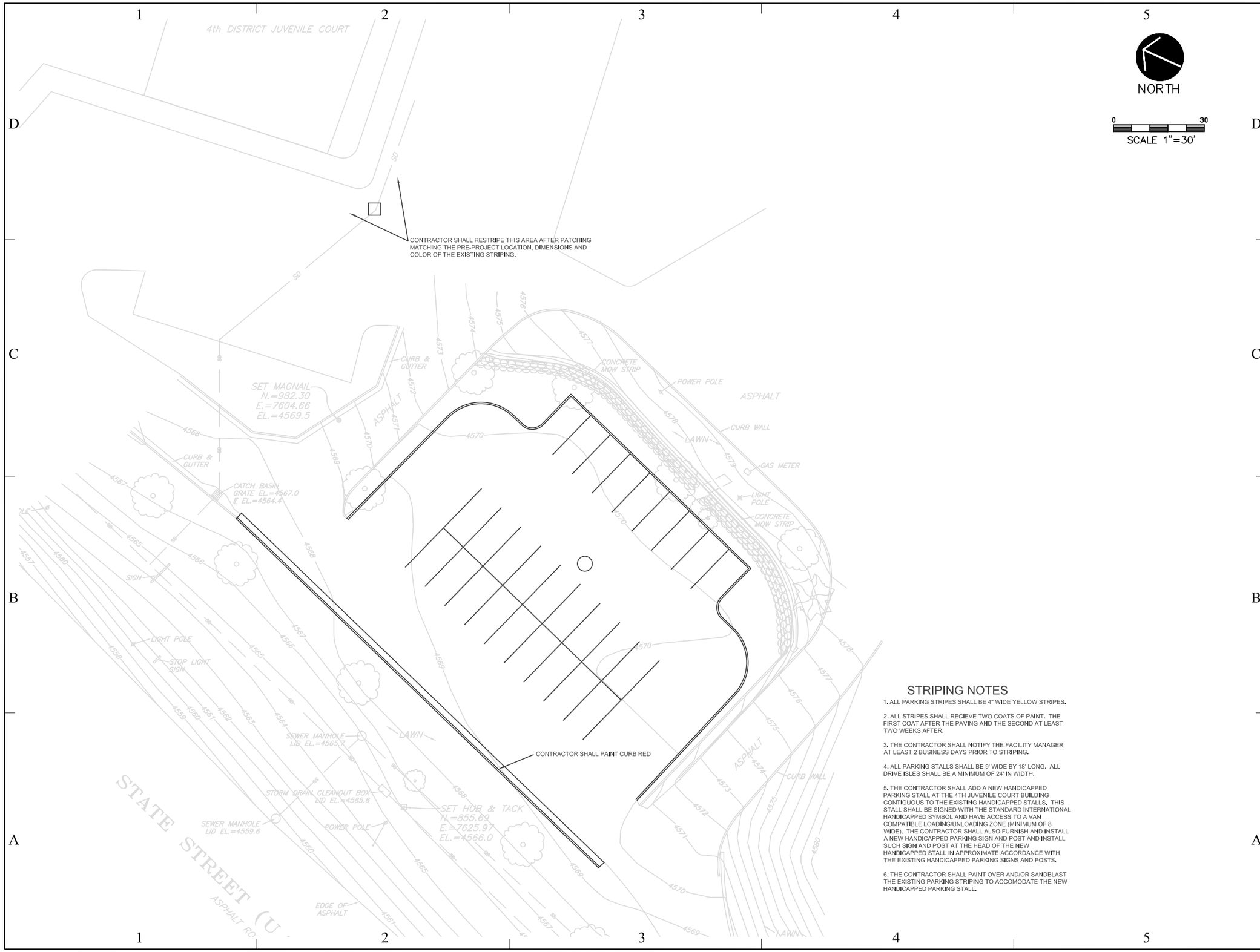
SHEET TITLE

LAYOUT AND
GRADING

SHEET NUMBER

C-101

SHEET 3 OF 6



NORTH

0 30
SCALE 1"=30'

STRIPING NOTES

1. ALL PARKING STRIPES SHALL BE 4" WIDE YELLOW STRIPES.

2. ALL STRIPES SHALL RECIEVE TWO COATS OF PAINT. THE FIRST COAT AFTER THE PAVING AND THE SECOND AT LEAST TWO WEEKS AFTER.

3. THE CONTRACTOR SHALL NOTIFY THE FACILITY MANAGER AT LEAST 2 BUSINESS DAYS PRIOR TO STRIPING.

4. ALL PARKING STALLS SHALL BE 9' WIDE BY 18' LONG. ALL DRIVE ISLES SHALL BE A MINIMUM OF 24' IN WIDTH.

5. THE CONTRACTOR SHALL ADD A NEW HANDICAPPED PARKING STALL AT THE 4TH JUVENILE COURT BUILDING CONTIGUOUS TO THE EXISTING HANDICAPPED STALLS. THIS STALL SHALL BE SIGNED WITH THE STANDARD INTERNATIONAL HANDICAPPED SYMBOL AND HAVE ACCESS TO A VAN COMPATIBLE LOADING/UNLOADING ZONE (MINIMUM OF 8' WIDE). THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A NEW HANDICAPPED PARKING SIGN AND POST AND INSTALL SUCH SIGN AND POST AT THE HEAD OF THE NEW HANDICAPPED STALL IN APPROXIMATE ACCORDANCE WITH THE EXISTING HANDICAPPED PARKING SIGNS AND POSTS.

6. THE CONTRACTOR SHALL PAINT OVER AND/OR SANDBLAST THE EXISTING PARKING STRIPING TO ACCOMODATE THE NEW HANDICAPPED PARKING STALL.

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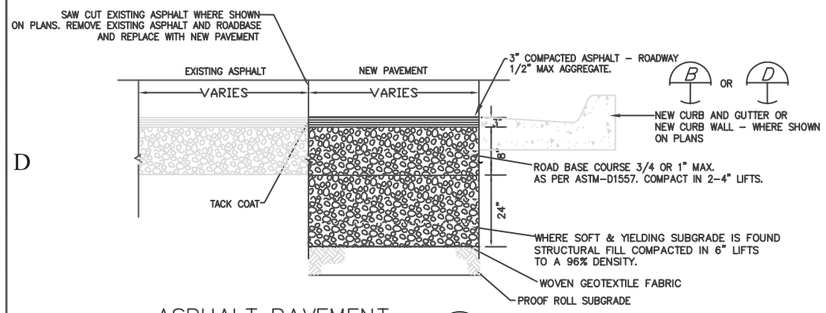
SHEET TITLE

STRIPING
PLAN

SHEET NUMBER

C-102



ASPHALT PAVEMENT (A)

SCALE: NTS

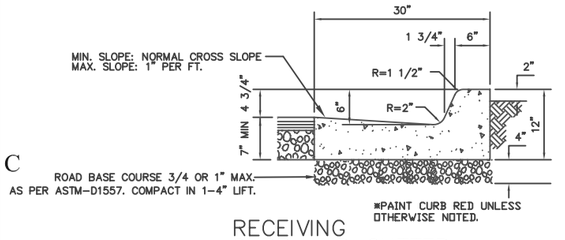
CONCRETE NOTE:

CONCRETE SHALL HAVE AN MINIMUM 28 DAY UNCONFINED COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH AND CONTAIN 5 PERCENT +/- 1PERCENT AIR ENTRAINMENT.

ALL SAW CUTS MUST BE COMPLETED WITHIN 24 HOURS OF THE "INITIAL SET" OF THE CONCRETE AND SHOULD BE PERFORMED UNDER THE DIRECTION OF THE CONCRETE PAVING CONTRACTOR.

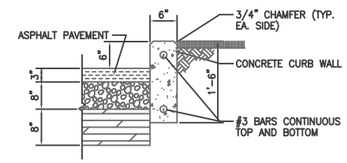
INCLUDE PRO MESH FIBER MESH IN ALL CONCRETE MIX OR APPROVED EQUAL. ADD AT 1.5 LBS PER CUBIC YARD OF MIX. MIX WELL FOR A MINIMUM OF 5 MINUTES BEFORE PLACING. SEE SPECIFICATIONS FOR MIX REQUIREMENTS.

STABILIZATION: WHERE SOFT AND YIELDING SUBGRADE IS FOUND THE CONTRACTOR SHALL INCLUDE ALL OF THE COSTS TO REMOVE AND REPLACE UP TO 20% OF THE TOTAL PAVED AREA (PER DETAIL A) AS PART OF THE BASE BID. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF 24" OF NATIVE OFF SITE AND REPALCE WITH 24" OF COMPACTED STRUCTURAL FILL AND NON-WOVEN GEOTEXTILE FABRIC.



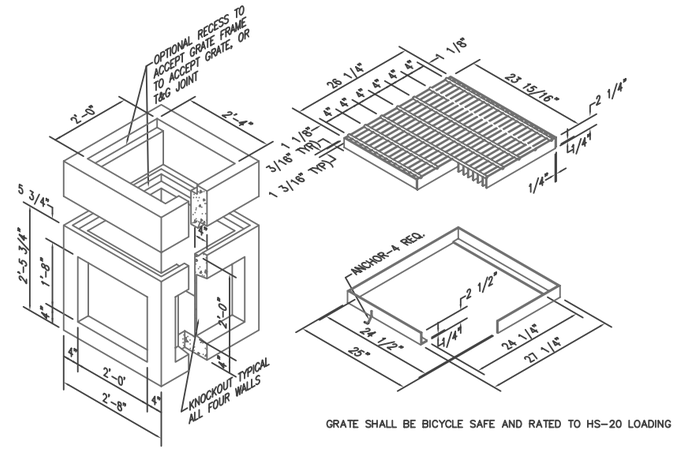
RECEIVING CURB AND GUTTER (B)

SCALE: NTS



CONCRETE CURB WALL (D)

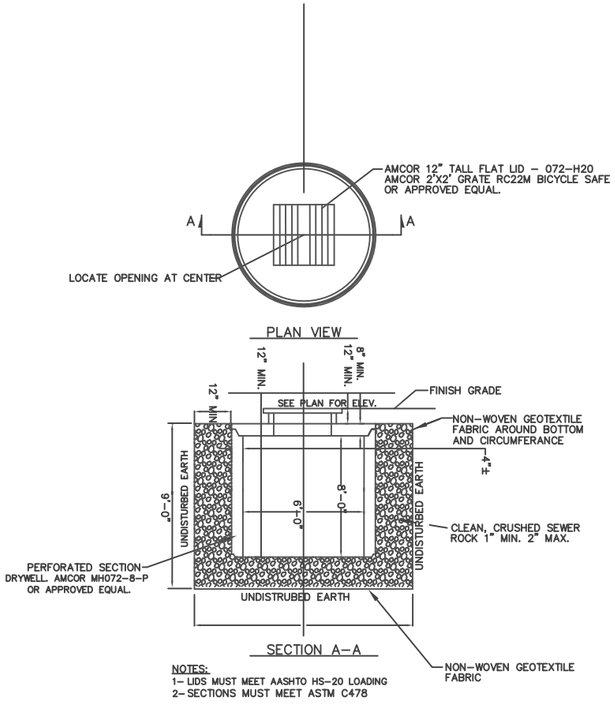
SCALE: NTS



GRATE SHALL BE BICYCLE SAFE AND RATED TO HS-20 LOADING

DRAIN BOX (F)

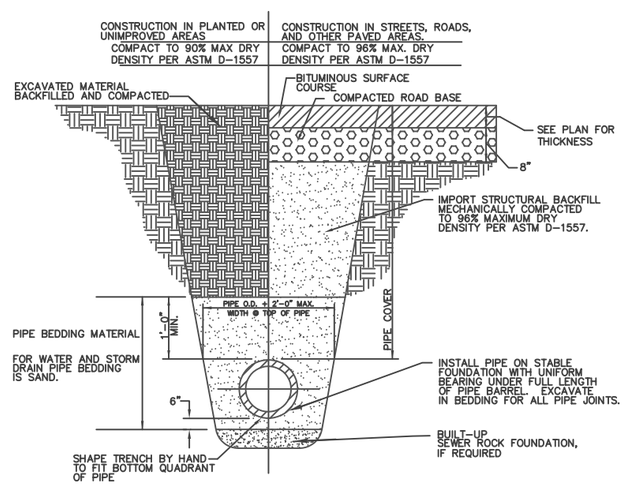
SCALE: NTS



NOTES:
1- LIDS MUST MEET AASHTO HS-20 LOADING
2- SECTIONS MUST MEET ASTM C478

SUMP DRAIN (C)

SCALE: NTS



TYPICAL TRENCH (E)

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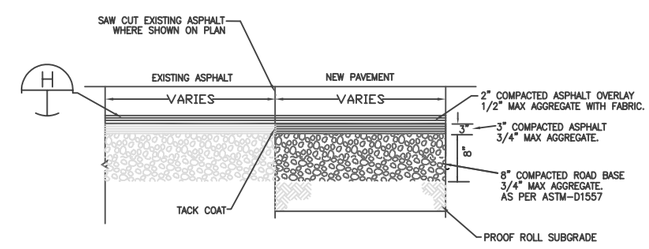
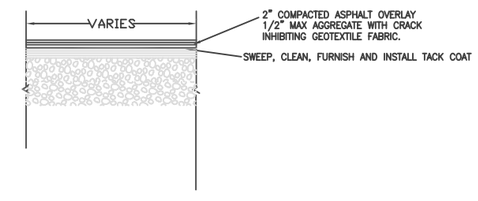


ASPHALT PATCH (G)

SCALE: NTS



ASPHALT OVERLAY (H)

SCALE: NTS

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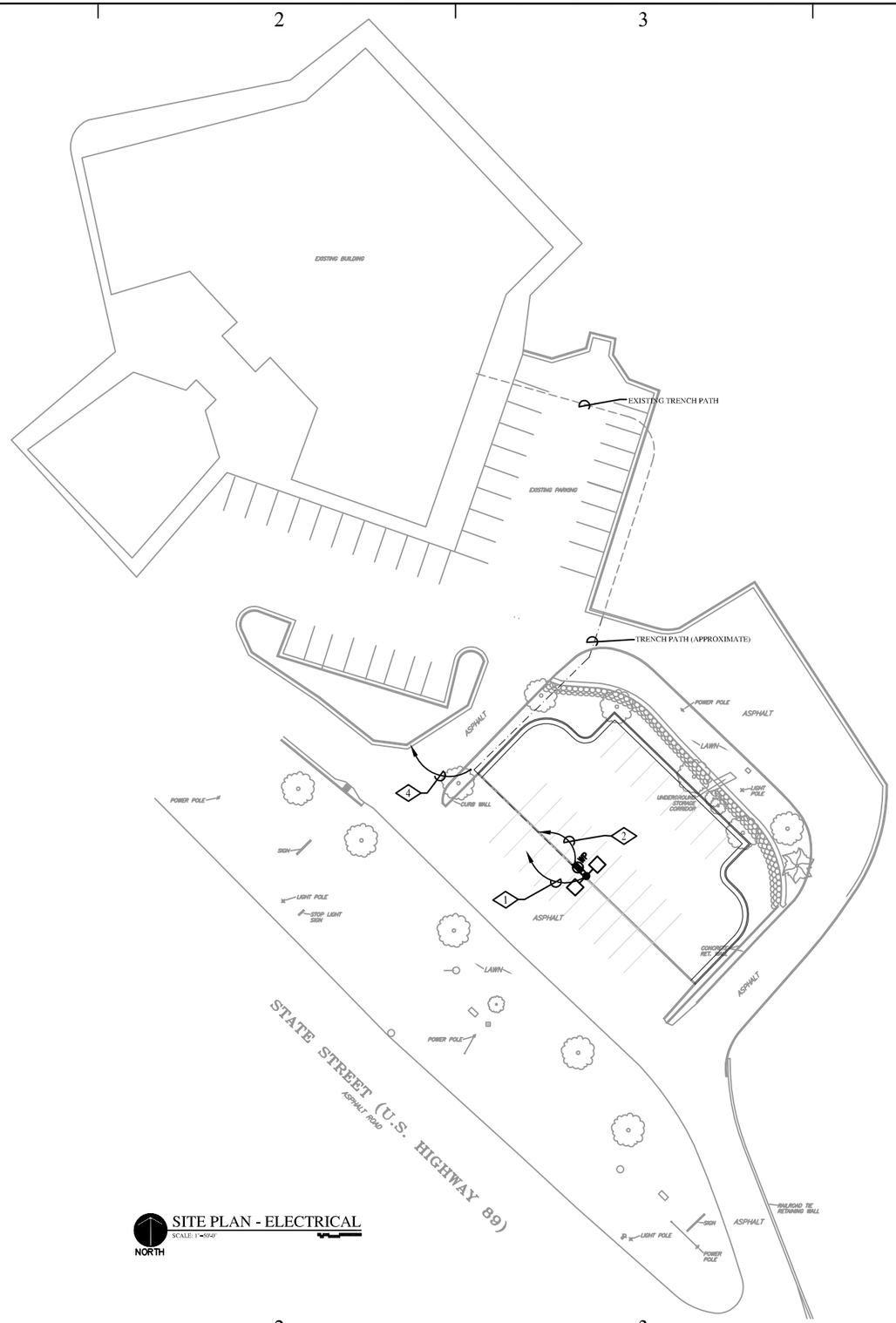
SHEET TITLE

CIVIL DETAILS

SHEET NUMBER

C-501

SHEET 5 OF 6



SITE PLAN - ELECTRICAL
SCALE: 1"=50'-0"
NORTH

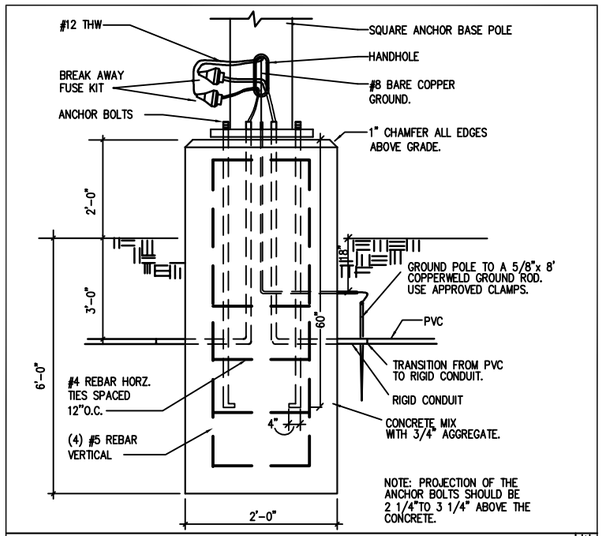
REFERENCE NOTES: SITE

1. TIE THE NEW POLE LIGHT FIXTURES TO A DEDICATED 120V, 20 AMP BREAKER IN PANEL "B" THROUGH LIGHTING CONTACTORS WHICH SHALL BE CONTROLLED BY THE EXISTING PHOTOCELL. PROVIDE CONDUIT, CONDUCTORS, BREAKERS, LIGHTING CONTACTORS, ETC., FOR A COMPLETE INSTALLATION. RUN #8 WIRES IN 1"CONDUIT. FOLLOW EXISTING TRENCH PATH IN PAVEMENT AS MUCH AS POSSIBLE. TRENCHES ARE A MINIMUM OF 18" DEEP. COORDINATE THIS WORK WITH THE OWNER.

2. TIE TO A DEDICATED 120V, 20 AMP BREAKER IN PANEL "B". PROVIDE CONDUIT, CONDUCTORS, BREAKER, ETC. FOR A COMPLETE INSTALLATION. RUN #8 WIRES IN 1" CONDUIT.

3. FURNISH AND INSTALL A NEW 30' POLE LIGHT FIXTURE WITH TWO HEADS. FURNISH AND INSTALL A GFI WEATHER PROOF OUTLET IN THE POLE. USE FIXTURE "LITHONIA" (2) KSE2-400M-R4W-TB-SP09-SCWA -LPI-SSS-30-5G-DM28-DDB.

4. RUN A SPARE 1"C FOR FUTURE SITE LIGHTING FROM APPROXIMATE LOCATION TO PANEL "B". STUB UP AND LABEL BOTH ENDS.



POLE BASE DETAIL

NOT TO SCALE

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Phone: 801.990.3170
Fax: 801.990.3293
Internet: www.pavementmanagement.com

CREATED BY: KING ENGINEERING, INC.

LICENSED PROFESSIONAL ENGINEER NO. 334543-2202 MANSOUR AGHDAM STATE OF UTAH

SITE/LOCATION:

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SHEET TITLE

SITE PLAN - ELECTRICAL

SHEET NUMBER

ES-101

SHEET 6 OF 6

EELD
ELECTRICAL ENGINEERING & LIGHTING DESIGN
1220 SOUTH 300 WEST SALT LAKE CITY, UTAH 84101
(801) 486-2222 www.ee-eld.com
EELD #223