

DEPARTMENT OF OPERATIONS AND MAINTENANCE

ASPHALT OVERLAY

FUNDED BY: REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA
FUEL REVENUE INDEXING
SANITARY SEWER FUND



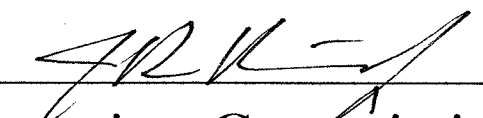
Mayor:
CAROLYN G. GOODMAN

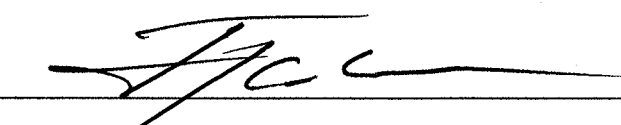
City Council:
LOIS TARKANIAN
(Mayor Pro-Tem)
STEVEN G. SEROKA
BOB COFFIN
STAVROS S. ANTHONY
RICKI Y. BARLOW
MICHELLE FIORE

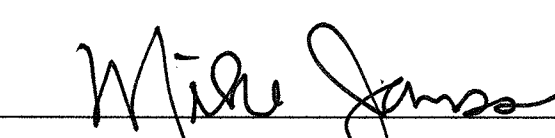
City Manager:
Scott D. Adams

Director of Department of
Operations and Maintenance:
Jerry Walker, P.E.

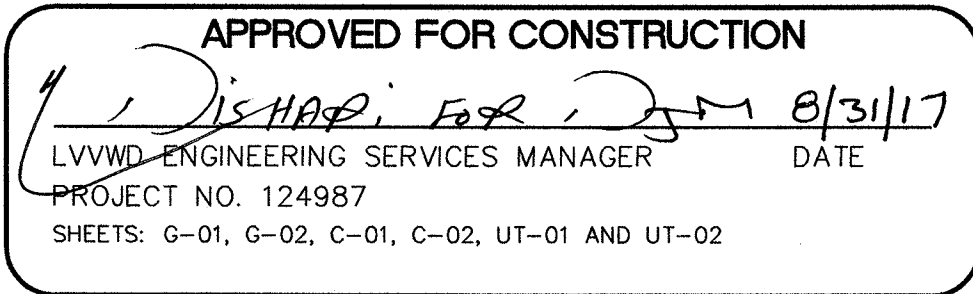
REVIEWED BY:

 9/7/17
Regional Transportation Commission of Southern Nevada Date

 8-22-17
Department of Operations and Maintenance Date

 8/22/17
City of Las Vegas Traffic Engineer Date

GRAND TETON DRIVE
SKY POINTE DRIVE TO DURANGO DRIVE
BID # 15.1762.02-JH REN #2



ABBREVIATIONS

AC	ASPHALT CONCRETE
ACP	ASEBESTOS CEMENT PIPE
AVE	AVENUE
BC	BACK OF CURB
BLVD	BOULEVARD
BM	BENCHMARK
BOW	BACK OF WALK
BR	BARRIER RAIL
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CONCRETE PIPE
CL	CENTERLINE
DI	DROP INLET
DR	DRIVE
DWG	DRAWING
E	EAST
EG	EXISTING GROUND
ELEC	ELECTRICAL
EOP	EDGE OF PAVEMENT
EX or EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FYG	FLUORESCENT YELLOW GREEN
HL	HINGE LINE
LL	LANE LINE
MED	MEDIAN
MH	MANHOLE
MON	MONUMENT
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NTS	NOT TO SCALE
OH CATV	OVERHEAD CABLE TELEVISION
P or UGP	UNDERGROUND POWER LINE
PB	PULL BOX
PC	POINT OF CURVE
R	PROJECT ENGINEER or POLYETHYLENE
PCB	PEDESTRIAN
PMF	PAVEMENT MARKING FILM
POC	POINT ON CURVE
POT	POINT ON TANGENT
PP	POWER POLE
PPCB	PORTABLE PRECAST BARRIER RAIL
RP	RADIUS
ROW	RIGHT-OF-WAY
S	SOUTH OR SANITARY SEWER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
SMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
ST	STREET
SW	STREET SIDEWALK
T-1	TYPE 1 PAVEMENT MARKING FILM
T-2	TYPE 2 PAVEMENT MARKING FILM
TELE	TELEPHONE
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCF	TEMPORARY CONSTRUCTION EASEMENT
TS	TRAFFIC SIGNAL
TYP	TYPICAL
USD	UNIFORM STANDARD DWG
W	WEST OR WATER LINE
WL	WATER LINE
WV	WATER VALVE
WMH	WATER MANHOLE
WVL	WATER VAULT

RTC NOTES:

- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MORE THAN ONE CONSECUTIVE BUS STOP ON THE SAME SIDE OF THE STREET. TEMPORARY CLOSURES SHALL BE PWD (PERSON'S WITH DISABILITY) ACCESSIBLE BEFORE ANY BUS STOP CAN BE CLOSED. THE CONTRACTOR SHALL NOTIFY CARL SCARBROUGH AT (702) 676-1608, ELLEN MARCEL AT (702) 676-1593 AT LEAST SEVEN WORKING DAYS IN ADVANCE.
- THE CONTRACTOR SHALL SUBMIT A BUS STOP CLOSURES SCHEDULE WITH THE TRAFFIC CONTROL PLAN. THE BUS STOP CLOSURE SCHEDULE SHALL IDENTIFY SPECIFIC DURATIONS AND TIMES OF THE DAY FOR ALL PROPOSED BUS STOP CLOSURES. BUS STOP CLOSURES ARE NOT TO EXCEED TWO CONSECUTIVE STOPS AT ONE TIME, OR MORE THAN 1,000 FEET AT A TIME. PERSONS WITH DISABILITIES SHALL HAVE ACCESS TO BUS STOPS. THE CONTRACTOR SHALL PROVIDE A 100 FOOT LONG BY 10 FEET WIDE GRAVELED TURN OUT AT TEMPORARY BUS STOPS.

BASIS OF BEARING:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS AND LAS VEGAS HIGH ELEVATION ZONES, NORTH AMERICAN DATUM OF 1983, SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (2011) EPOCH 2010

BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCHMARK: CITY OF LAS VEGAS 0LV9017NE5
NAVD88 ELEVATION: 774.109 METERS (2539.72 FEET)
RIVET & PLATE IN TOP OF CURB AT SW CORNER OF GRAND TETON & DURANGO.

UTILITY NOTE

UTILITY LOCATIONS SHOWN ON THESE PLANS ARE INFORMATIONAL ONLY AND NOT ALL UTILITIES ARE DETECTED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. THE DEPTH VARIES THROUGHOUT THE PROJECT AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHERE EXCAVATING AND GRADING IN THE VICINITY OF UTILITIES TO AVOID DAMAGE. ALL EXISTING UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.

LEGEND

TELEPHONE MANHOLE
TELEPHONE VAULT
SEWER MANHOLE
STORM DRAIN MANHOLE
DROP INLET
FIRE HYDRANT
WATER MANHOLE
WATER METER
WATER VALVE
WATER BLOW-OFF
GAS VALVE
POWER POLE
POWER POLE W/GUY ANCHOR
ELECTRICAL MANHOLE
ELECTRICAL VAULT
CABLE VAULT
STREET LIGHT
STREET LIGHT PULLBOX
TRAFFIC SIGNAL PULLBOX
TRAFFIC SIGNAL
PEDESTRIAN TRAFFIC SIGNAL
GROUND MOUNTED SIGN
IRRIGATION PULLBOX
SURVEY MONUMENT
BOLLARD
BENCHMARK
HINGE LINE

CONSTRUCTION NOTE
MANHOLE NUMBER

LAS VEGAS VALLEY WATER DISTRICT

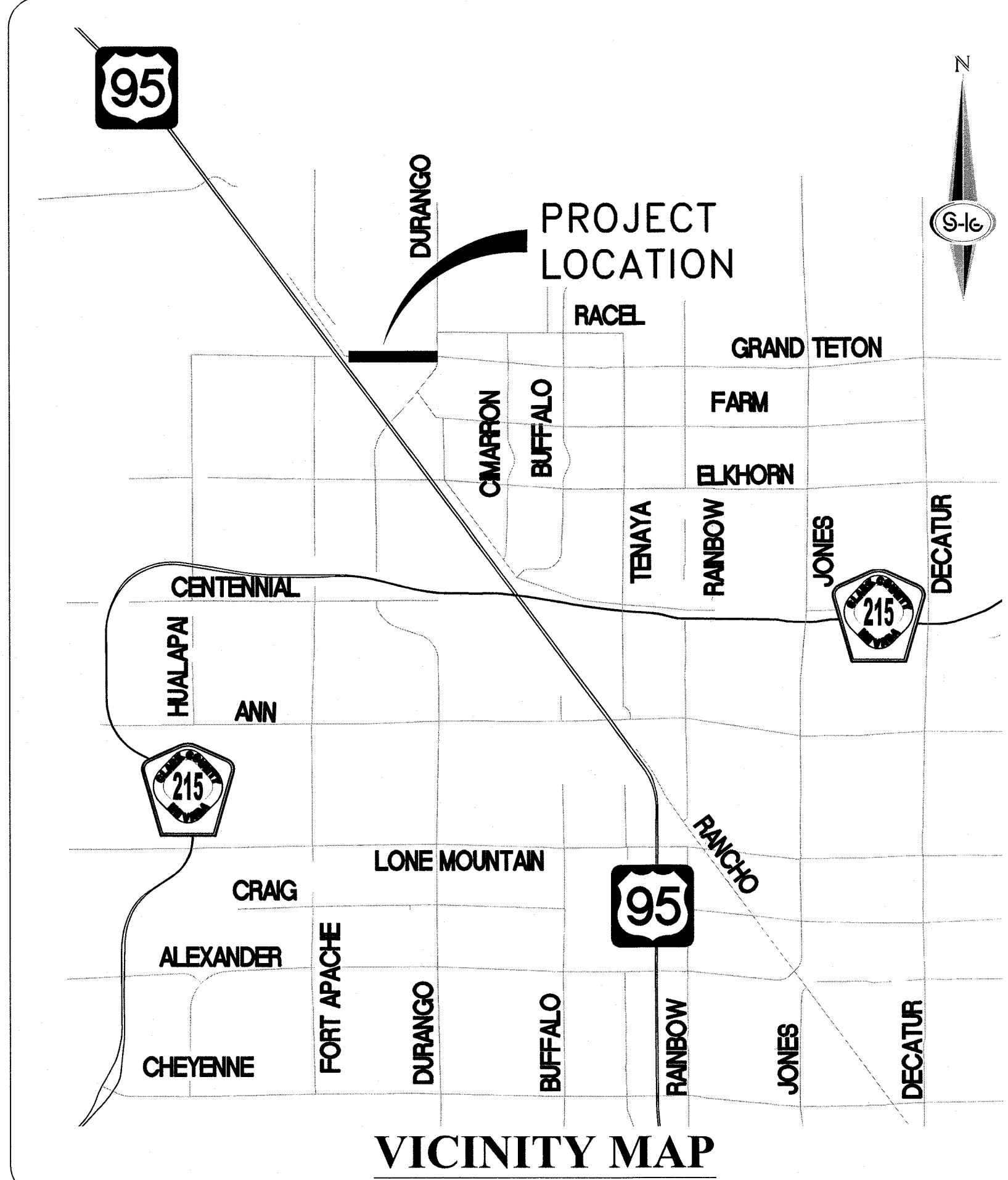
(LVVWD) STANDARD NOTES

LVVWD PROJECT #124987
(REVISED 01/09/2017)

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT NUMBER IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
- A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
- ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
- ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
- ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
- ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 5.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
- THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE. ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OF PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF ANY DECORATIVE PAVING SURFACE WITH THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
- NO LEAD COMPLIANCE NOTE.
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

LVVWD ENGINEERING SERVICE MANAGER
LVVWD PROJECT # 124987
8/31/17
DATE



CITY OF LAS VEGAS TRAFFIC SIGNAL NOTES:

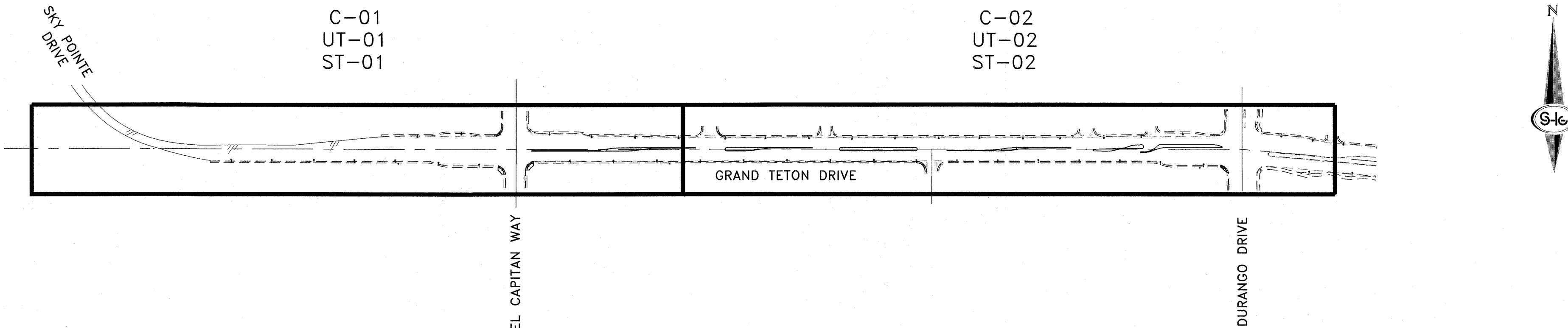
- ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-OVERHEAD 1-702-227-2929
CALL-BEFORE-YOU-DIG 1-800-227-2600
STREETLIGHTS 1-702-229-6331
F.A.S.T. 1-702-432-5300
- ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
- WHERE NEW LOOPS WILL BE OVERLaid WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLaid WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 1.02.04.G OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
- THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
- WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01.N OF THE CLV SPECIAL PROVISIONS.

REVISED 4/24/17

CITY OF LAS VEGAS TRAFFIC NOTES:

- ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
- THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
- BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
- WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
- IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
- WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
- ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
- STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING RTC TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
- GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
- ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JULY 13, 2013



KEY MAP

INDEX OF DRAWINGS:

SHEET	SHEET
G-01	COVER SHEET
G-02	INDEX OF DRAWINGS, KEY MAP, ABBREVIATIONS, NOTES AND LEGEND
C-01	IMPROVEMENT PLAN - "GTD" 10+00.00 TO "GTD" 29+50.00
C-02	IMPROVEMENT PLAN - "GTD" 29+50.00 TO "GTD" 53+50.00
UT-01	UTILITY PLAN - "GTD" 10+00.00 TO "GTD" 29+50.00
UT-02	UTILITY PLAN - "GTD" 29+50.00 TO "GTD" 53+50.00
ST-01	STRIPING PLAN - "GTD" 10+00.00 TO "GTD" 29+50.00
ST-02	STRIPING PLAN - "GTD" 29+50.00 TO "GTD" 53+50.00

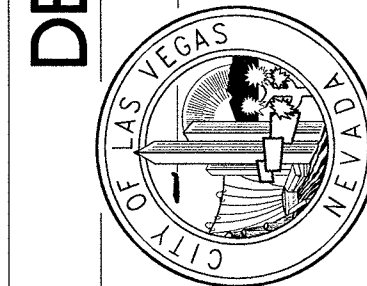


DEPARTMENT OF OPERATIONS AND MAINTENANCE

DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

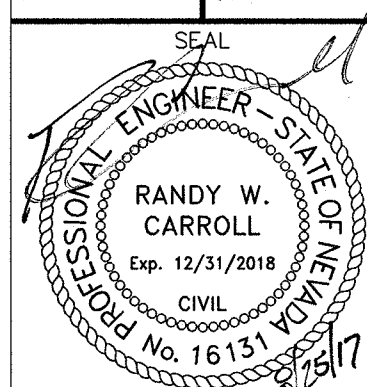
DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

DATE: 8/31/17



GRAND TETON DRIVE SKY POINTE DRIVE TO DURANGO DRIVE INDEX OF DRAWINGS, KEY MAP, ABBREVIATIONS, NOTES AND LEGEND

TITLE:
SHEET:



Sheet
G-02
2 of 8
BID NO.

PROJ.#:124987 AGR-116119 QS:125-00-SE/8W

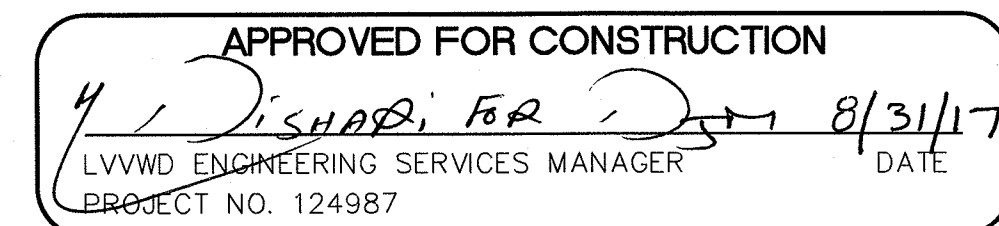
MATCHLINE "GTD" 17+50.00
SEE ABOVE RIGHT

LEGEND	
	EDGE MILL 0' TO 1/2' TO MATCH EXISTING
	UTACS OVERLAY
	REMOVE AND REPLACE CONCRETE SIDEWALK & C&G
	REMOVE AND REPLACE AC
	DENSE GRADE MILL OVERLAY
	WEDGE MILL
	SURFACE MILL FULL WIDTH STREET 1/2' TO 1/4'
	MILL 1' EXISTING AC
	TYPE II AGGREGATE BASE

REMOVAL ITEMS:	
A	COLD PLANE EXISTING SURFACE, 0" - 1/2" DEPTH.
B	MATCH LINE, NEW A.C. TO MATCH EXISTING
C	REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
D	REMOVE EXISTING CONCRETE SIDEWALK (BY CLV)
E	REMOVE EXISTING CURB & GUTTER (BY CLV)
F	REMOVE EXISTING CROSS GUTTER SPANDREL (BY CLV)
G	REMOVE EXISTING ASPHALT
H	MILL 2" EXISTING AC
J	MILL 2.5" EXISTING AC
K	MILL 3" EXISTING AC
L	REMOVE EXISTING ASPHALT (BY CLV)
M	MILL 1" EXISTING AC
N	REMOVE EXISTING CURB (BY CLV)

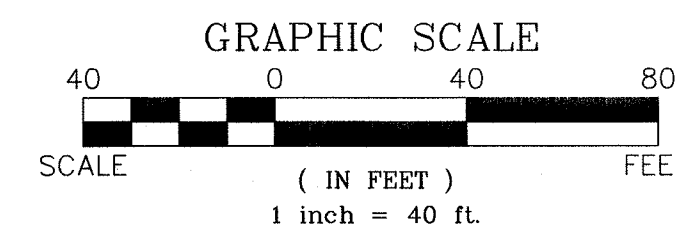
CONSTRUCTION ITEMS:	
1	CONSTRUCT 1" THICK ULTRA THIN ASPHALTIC CONCRETE SURFACE (UTACS) S3 GRADATION
2	INSTALL 4" TYPE II AGGREGATE BASE
3	CONSTRUCT TACK-ON ISLAND CURB PER USD. DWG. #220
4	SET TYPE III SURVEY MONUMENT. (BY CLV)
5	SCARIFY AND RECOMPACT TOP 8" OF EXPOSED SOIL TO MIN. 95% COMPACTION (ASTM D1557)
6	CONSTRUCT 18" L-TYPE CURB AND GUTTER PER USD. DWG. #219
7	CONSTRUCT "A" TYPE CURB PER USD. DWG. #219 (BY CLV)
8	CONSTRUCT CONCRETE SIDEWALK PER USD. DWG. #234 (BY CLV)
9	CONSTRUCT 24" L-TYPE CONCRETE CURB & GUTTER PER USD. DWG. #216 (BY CLV)
10	CONSTRUCT CONCRETE CROSS GUTTER PER USD. DWG. #228 (BY CLV)
11	CONSTRUCT CONCRETE RESIDENTIAL DRIVEWAY PER USD. DWG. #223 (BY CLV)
12	CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL.
13	CONSTRUCT 2" DENSE GRADE AC OVERLAY
14	CONSTRUCT 2.5" DENSE GRADE AC OVERLAY

15	CONSTRUCT GLUE DOWN TACTILE (WARNING) DETECTABLE STRIP AND GRIND CURB LIP FLUSH WITH GUTTER FLOW LINE AT RAMP LANDING PER USD. DWG. #235 (BY CLV)
16	CONSTRUCT 3" DENSE GRADE AC OVERLAY
17	CONSTRUCT 2" MEDIAN ISLAND
18	CONSTRUCT CASE I SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
19	CONSTRUCT CASE II SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
20	CONSTRUCT CASE III SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
21	CONSTRUCT TACK-ON ISLAND PER USD. DWG. #220.1S1
22	CONSTRUCT ALLEY DRIVEWAY PER USD. DWG. #227.51 (BY CLV)
23	ADJUST UTILITY PULL BOX TO FG. (BY CLV)
24	CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL. (BY CLV)
25	CONSTRUCT CRASH CAP FLUSH WITH SIDEWALK - VERTICAL AT BASE (BY CLV)
26	CONSTRUCT TACTILE (WARNING) DETECTABLE STRIP PER USD. DWG. #235
27	INSTALL 3" TYPE II AGGREGATE BASE
28	INSTALL 0.75" DIAMETER LANDSCAPE ROCK (2" THICK) COLOR TO BE APPROVED BY CLV

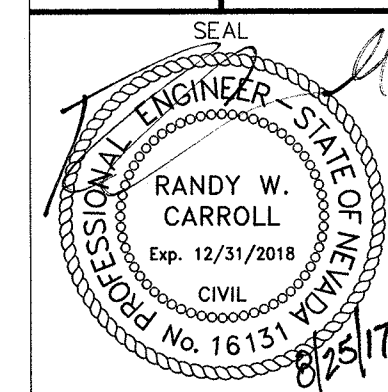


GENERAL NOTE:

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- ALL CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN CITY OF LAS VEGAS RIGHT-OF-WAY.
- SEE UT-SHEETS FOR UTILITY ADJUSTMENTS.



Sheet
C-01
3 of 8
BID NO.



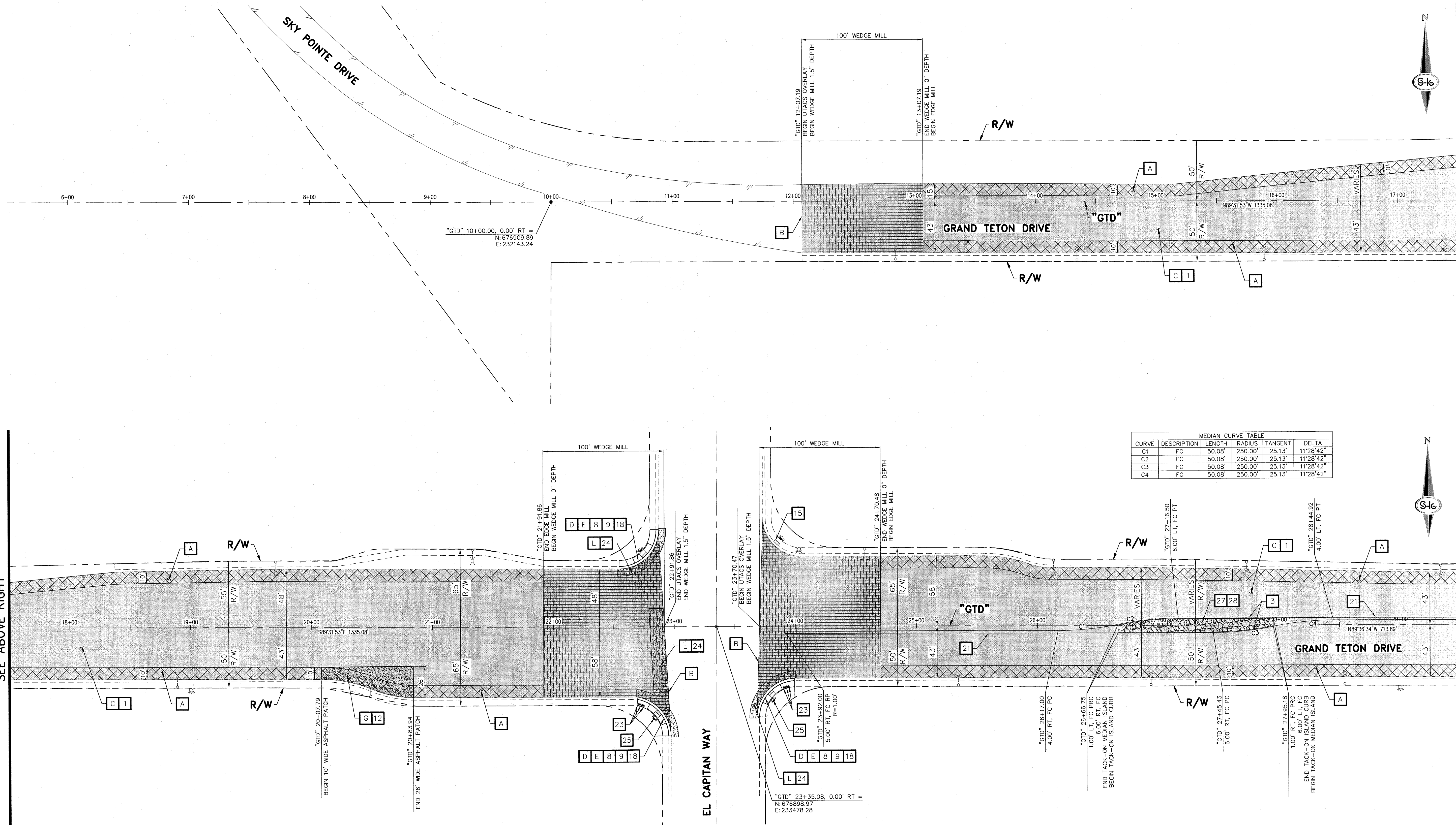
TITLE: **GRAND TETON DRIVE
SKY POINTE DRIVE TO DURANGO DRIVE**
SHEET: **IMPROVEMENT PLAN
"GTD" 10+00.00 TO "GTD" 29+50.00**

DEPARTMENT OF OPERATIONS
AND MAINTENANCE
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC
DATE: 8/31/17

PROJ.#: 124987 AGR:116119 QS:25-08-SE/SM

CLV DWG No. 107v7383



MEDIAN CURVE TABLE				
CURVE	DESCRIPTION	LENGTH	RADIUS	DELTA
C1	FC	50.08'	250.00'	25.13°
C2	FC	50.08'	250.00'	25.13°
C3	FC	50.08'	250.00'	25.13°
C4	FC	50.08'	250.00'	25.13°

MATCHLINE "GTD" 17+50.00
SEE BELOW LEFT

MATCHLINE "GTD" 29+50.00
SEE SHEET C-02

GRAND TETON DRIVE - SKY POINTE DRIVE TO DURANGO DRIVE

MATCHLINE "GTD" 41+50.00
SEE ABOVE RIGHT

MATCHLINE "GTD" 29+50.00
SEE SHEET C-01

LEGEND	
	EDGE MILL 0" TO 1/2" TO MATCH EXISTING
	UTACS OVERLAY
	REMOVE AND REPLACE CONCRETE SIDEWALK & C&G
	REMOVE AND REPLACE AC
	DENSE GRADE MILL OVERLAY
	WEDGE MILL
	SURFACE MILL FULL WIDTH STREET 1/2" TO 1/4"
	MILL 1" EXISTING AC
	TYPE II AGGREGATE BASE

REMOVAL ITEMS:	
A	COLD PLANE EXISTING SURFACE, 0" - 1/2" DEPTH.
B	MATCH LINE, NEW A.C. TO MATCH EXISTING.
C	REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
D	REMOVE EXISTING CONCRETE SIDEWALK (BY CLV)
E	REMOVE EXISTING CURB & GUTTER (BY CLV)
F	REMOVE EXISTING CROSS GUTTER SPANDREL (BY CLV)
G	REMOVE EXISTING ASPHALT
H	MILL 2" EXISTING AC
J	MILL 2.5" EXISTING AC
K	MILL 3" EXISTING AC
L	REMOVE EXISTING ASPHALT (BY CLV)
M	MILL 1" EXISTING AC
N	REMOVE EXISTING CURB (BY CLV)

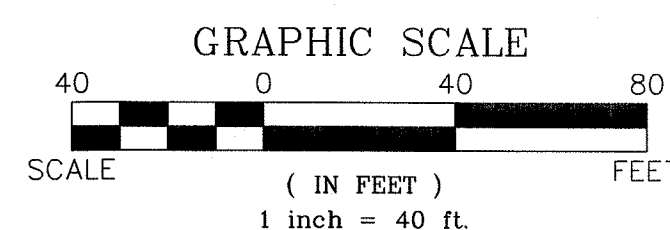
CONSTRUCTION ITEMS:	
1	CONSTRUCT 1" THICK ULTRA THIN ASPHALTIC CONCRETE SURFACE (UTACS) S3 GRADATION
2	INSTALL 4" TYPE II AGGREGATE BASE
3	CONSTRUCT TACK-ON ISLAND CURB PER USD. DWG. #220
4	SET TYPE III SURVEY MONUMENT. (BY CLV)
5	SCARIFY AND RECOMPACT TOP 8" OF EXPOSED SOIL TO MIN. 95% COMPACTION (ASTM D1557)
6	CONSTRUCT 18" L-TYPE CURB AND GUTTER PER USD. DWG. #219
7	CONSTRUCT "A" TYPE CURB PER USD. DWG. #219 (BY CLV)
8	CONSTRUCT CONCRETE SIDEWALK PER USD. DWG. #234 (BY CLV)
9	CONSTRUCT 24" L-TYPE CONCRETE CURB & GUTTER PER USD. DWG. #216 (BY CLV)
10	CONSTRUCT CONCRETE CROSS GUTTER PER USD. DWG. #228 (BY CLV)
11	CONSTRUCT CONCRETE RESIDENTIAL DRIVEWAY PER USD. DWG. #223 (BY CLV)
12	CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL.
13	CONSTRUCT 2" DENSE GRADE AC OVERLAY
14	CONSTRUCT 2.5" DENSE GRADE AC OVERLAY

15	CONSTRUCT GLUE DOWN TACTILE (WARNING) DETECTABLE STRIP AND GRIND CURB LIP FLUSH WITH GUTTER FLOW LINE AT RAMP LANDING PER USD. DWG. #235 (BY CLV)
16	CONSTRUCT 3" DENSE GRADE AC OVERLAY
17	CONSTRUCT 2" MEDIAN ISLAND
18	CONSTRUCT CASE I SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
19	CONSTRUCT CASE II SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
20	CONSTRUCT CASE III SIDEWALK RAMP PER USD. DWG. #235 (BY CLV)
21	CONSTRUCT TACK-ON ISLAND PER USD. DWG. #220.1.S1
22	CONSTRUCT ALLEY DRIVEWAY PER USD. DWG. #227.S1 (BY CLV)
23	ADJUST UTILITY PULL BOX TO FG. (BY CLV)
24	CONSTRUCT ASPHALT PATCH TO MATCH EXISTING DEPTH, MINIMUM 5" DEPTH FOR ARTERIAL AND 3" DEPTH FOR LOCAL. (BY CLV)
25	CONSTRUCT CRASH CAP FLUSH WITH SIDEWALK - VERTICAL AT BASE (BY CLV)
26	CONSTRUCT TACTILE (WARNING) DETECTABLE STRIP PER USD. DWG. #235
27	INSTALL 3" TYPE II AGGREGATE BASE
28	INSTALL 0.75" DIAMETER LANDSCAPE ROCK (2" THICK) COLOR TO BE APPROVED BY CLV

APPROVED FOR CONSTRUCTION
8/31/17
LVVWD ENGINEERING SERVICES MANAGER
PROJECT NO. 124987

GENERAL NOTE:

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- SEE UT-SHEETS FOR UTILITY ADJUSTMENTS.



TITLE:

GRAND TETON DRIVE
SKY POINTE DRIVE TO DURANGO DRIVE

IMPROVEMENT PLAN
"GTD" 29+50.00 TO "GTD" 53+50.00

DEPARTMENT OF OPERATIONS
AND MAINTENANCE

DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

DATE: 8/31/17

NO.

REVISIONS

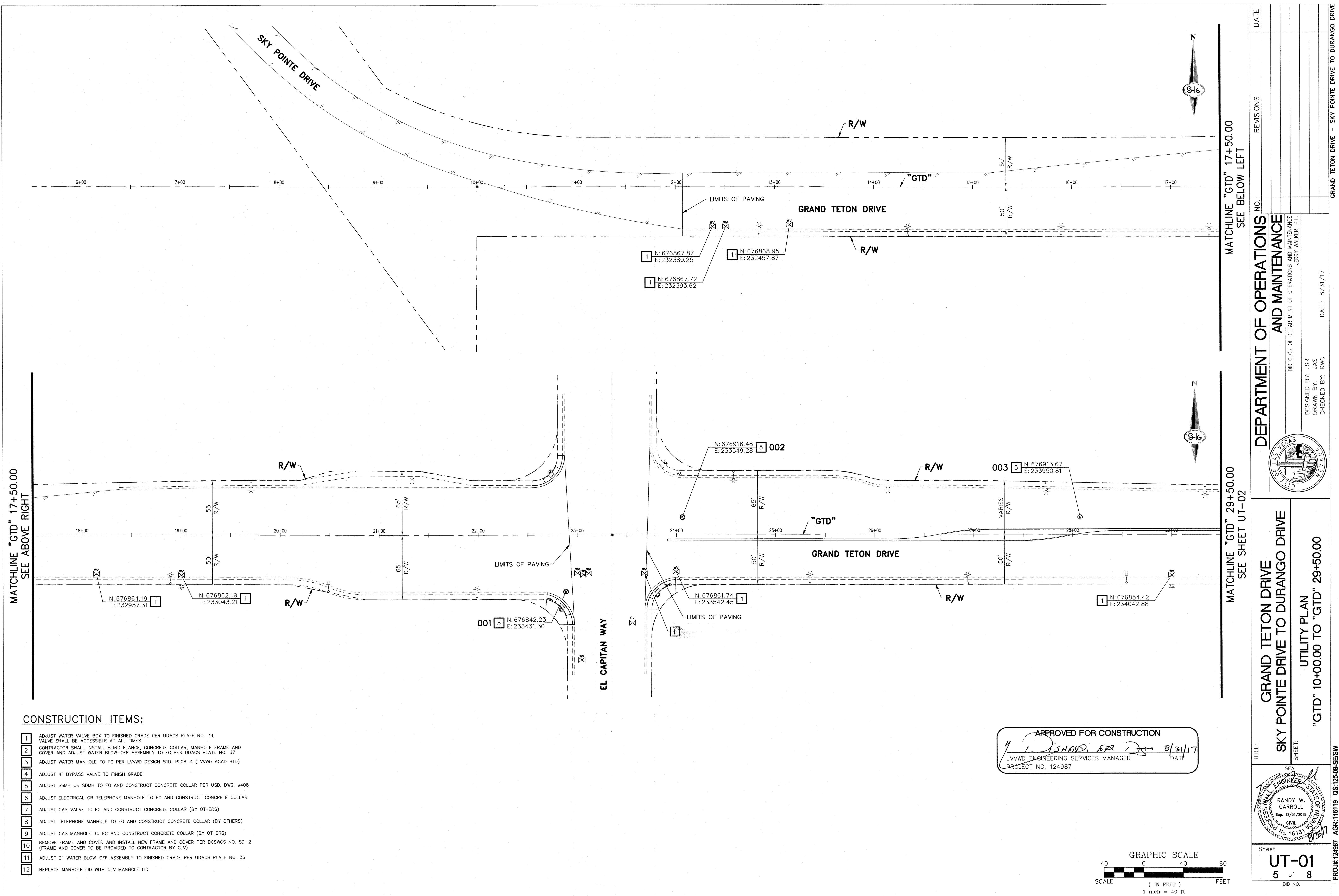
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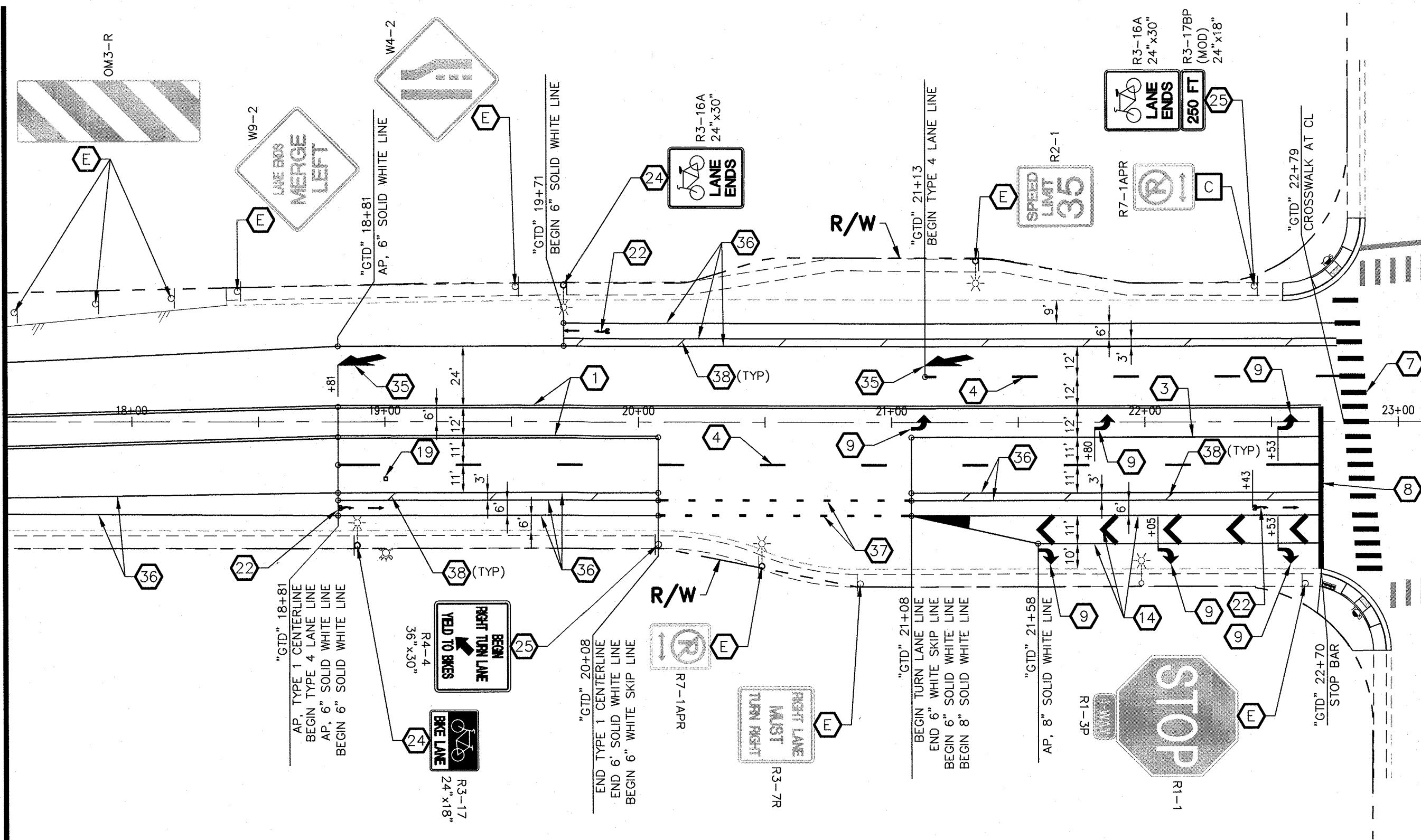
C-02
4 of 8
BID NO.

PROJ#124987 AGR:116119 QS:125-08-SE/5W

GRAND TETON DRIVE - SKY POINTE DRIVE TO DURANGO DRIVE



MATCHLINE "GTD" 17+50.00
SEE ABOVE RIGHT



REMOVAL ITEMS:

- A** REMOVE EXISTING TRAFFIC DELINEATION, MARKINGS AND SYMBOLS.
- B** SAWCUT AND REMOVE EXISTING ISLAND AND ISLAND NOSE FROM CROSSWALK PATH.
- C** REMOVE AND SALVAGE SIGN(S).

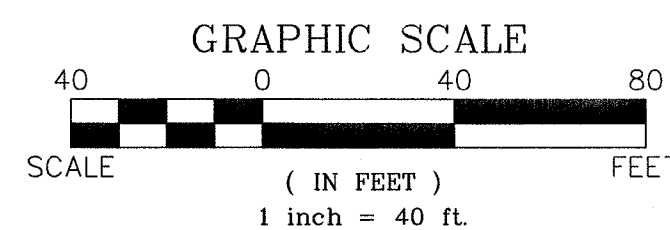
GENERAL NOTE:

1. ALL LANE LINE DIMENSIONS ARE TO LIP OF GUTTER OR FACE OF MEDIAN ISLAND UNLESS OTHERWISE NOTED.

CONSTRUCTION ITEMS:

- 1** INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244.
- 2** INSTALL TYPE 2 CENTERLINE AS PER USD. DWG. #244.
- 3** INSTALL TURN LANE LINE (RPM) AS PER USD. DWG. #246.
- 4** INSTALL TYPE 4 LANE LINE AS PER USD. DWG. #244.1.
- 5** INSTALL 6" SOLID WHITE LINE (T-2 FILM) AS PER USD. DWG. #244.9.
- 6** INSTALL WHITE T-2 FILM SCHOOL CROSSWALK PER USD. DWG. #254.1.51.
- 7** INSTALL WHITE T-2 FILM CROSSWALK PER USD. DWG. #254.
- 8** INSTALL WHITE T-2 FILM STOP BAR PER USD. DWG. #254.
- 9** INSTALL WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3 AND USD. DWG. #246.
- 10** INSTALL WHITE T-2 FILM LANE LINE (3' SEGMENTS AND 9' GAPS).
- 11** INSTALL WHITE T-2 FILM "ONLY" LEGEND PER MUTCD 2009 PART 3 AND USD. DWG. #246.6.
- 12** INSTALL TRAFFIC LOOP DETECTOR AS PER USD. DWG. #826, 827, 828, AND 834.
- 13** INSTALL WHITE T-2 FILM STRIPING PER USD. DWG. #245.
- 14** INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (3 OF 3).
- 15** INSTALL TRANSITION SECTION (T-2 FILM) AS PER USD. DWG. #245 (2 OF 3).
- 16** INSTALL FORCED TURN LANE LINE (RPM) AS PER USD. DWG. #246.6.
- 17** INSTALL YELLOW MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
- 18** INSTALL MEDIAN ISLAND NOSE NOT TO ENCR OACH INTO CROSSWALK PATH.
- 19** INSTALL FIRE HYDRANT MARKER PER CITY OF LAS VEGAS FIRE CODE.
- 20** INSTALL RIGHT TURN ONLY LANE PER MUTCD 2009 PART 9 FIG. 9C-4.
- 21** INSTALL 6" WHITE SKIP LINE (T-2 FILM) AS PER USD. DWG. #244.9.
- 22** INSTALL WHITE T-2 FILM BICYCLE SYMBOL PAVEMENT MARKING PER MUTCD 2009 PART 9 FIG. 9C-3 AND USD. DWG. #244.9.
- 23** INSTALL WHITE MEDIAN NOSE MARKINGS AS PER USD. DWG. #248.
- 24** INSTALL NEW SIGN(S) (POLE MOUNTED).
- 25** INSTALL NEW SIGN(S) (GROUND MOUNTED) AS PER USD. DWG. #249.1.
- 26** INSTALL T-2 FILM "U-TURN ARROW" SYMBOL (SEE DETAIL A, DRAWING ST-01).
- 27** INSTALL WHITE CAT TRACKS (RPM).
- 28** PAINT MEDIAN ISLAND YELLOW UP TO 2' WIDTH.
- 29** INSTALL WHITE K71 SELF RE-ERECTING MARKER POST.
- 30** INSTALL TYPE 1 CENTERLINE AS PER USD. DWG. #244 (ALL PAVEMENT MARKERS SHALL BE WHITE).
- 31** INSTALL 4" SOLID WHITE LINE (T-1 FILM).
- 32** INSTALL 8" SOLID WHITE LINE (T-2 FILM).
- 33** REMOVE AND RESET SIGN(S).
- 34** INSTALL YELLOW K71 SELF RE-ERECTING MARKER POST.
- 35** INSTALL WHITE T-2 FILM MERGE ARROW AS PER NDOT STD. PLAN T-38.1.1.
- 36** INSTALL 6" SOLID WHITE LINE (EPOXY PAINT) AS PER USD. DWG. #244.9.
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- 43** INSTALL BICYCLE DETECTOR LOOP (SEE DETAIL 1, SHEET ST-06). BICYCLE LOOP CONNECTION TO LOOP LEAD-IN BY CLV. PROVIDE A MIN. OF 5' OF LOOP LEADS COILED IN LOOP PULL BOX.
- 44** INSTALL COMPRESSED WHITE T-2 FILM "ARROW" SYMBOL PER MUTCD 2009 PART 3.

- 45** REFRESH EXISTING RED PAINTED CURB WITH NEW PAINT.
- E** EXISTING SIGN TO REMAIN IN PLACE.



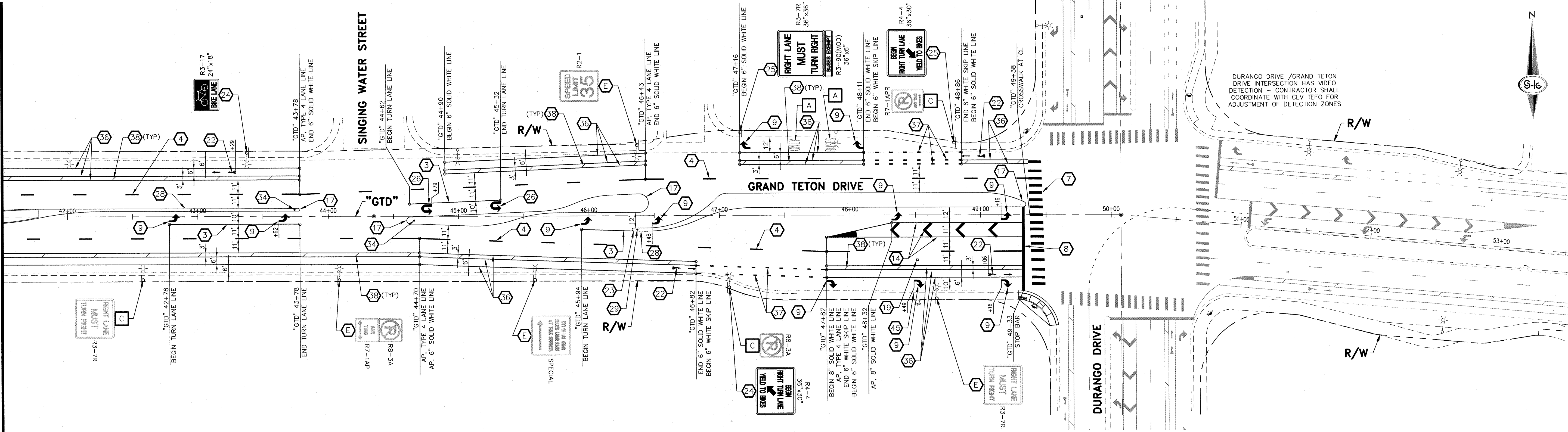
DEPARTMENT OF OPERATIONS AND MAINTENANCE	
NO.	REVISIONS
DESIGNED BY: JSR	
DRAWN BY: JAS	
CHECKED BY: RWC	
DATE: 8/31/17	
DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE JERRY WALKER, P.E.	

GRAND TETON DRIVE SKY POINTE DRIVE TO DURANGO DRIVE	
STRIPING PLAN	
"GTD" 10+00.00 TO "GTD" 29+50.00	
SHEET: ST-01	
7 of 8	
BID NO.	

TITLE: GRAND TETON DRIVE
SKY POINTE DRIVE TO DURANGO DRIVE
STRIPING PLAN
"GTD" 10+00.00 TO "GTD" 29+50.00

Sheet: ST-01
7 of 8
BID NO.

MATCHLINE "GTD" 41+50.00
SEE ABOVE RIGHT



REMOVAL ITEMS:

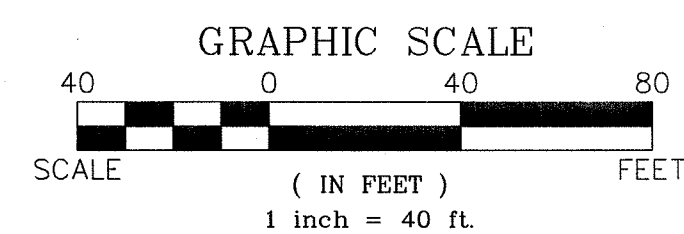
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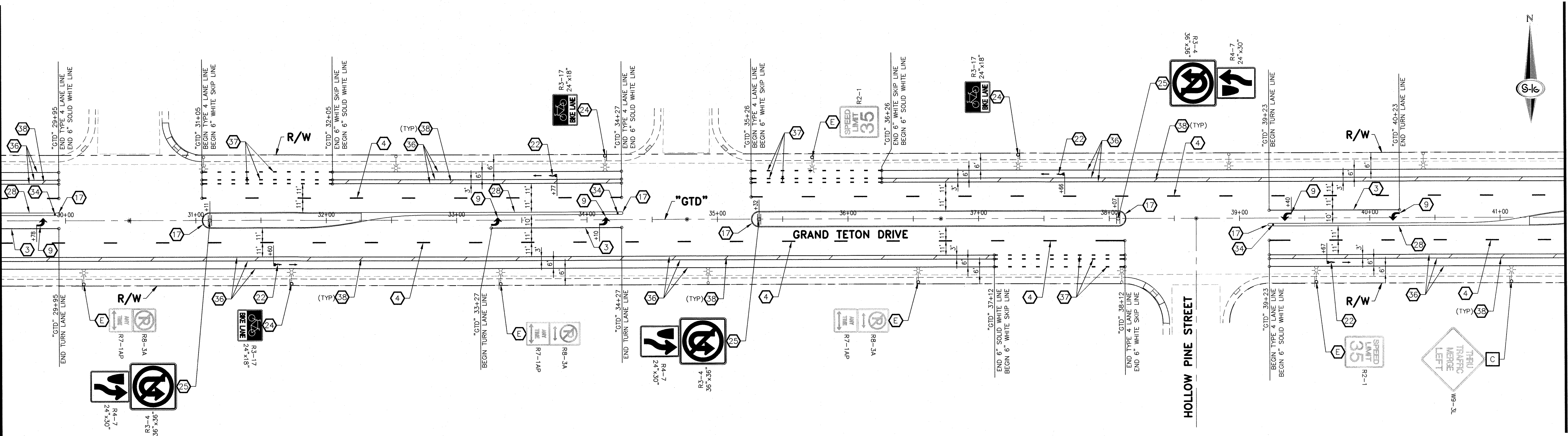
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MATCHLINE "GTD" 29+50.00
SEE SHEET ST-01



TITLE: GRAND TETON DRIVE
SKY POINTE DRIVE TO DURANGO DRIVE

SHEET: STRIPING PLAN
"GTD" 29+50.00 TO "GTD" 53+50.00

DEPARTMENT OF OPERATIONS
AND MAINTENANCE

DIRECTOR OF DEPARTMENT OF OPERATIONS AND MAINTENANCE
JERRY WALKER, P.E.

DESIGNED BY: JSR
DRAWN BY: JAS
CHECKED BY: RWC

DATE: 8/31/17

REVISIONS

DATE

GRAND TETON DRIVE - SKY POINTE DRIVE TO DURANGO DRIVE