

APPENDIX 1

MISSION SPRINGS WATER DISTRICT

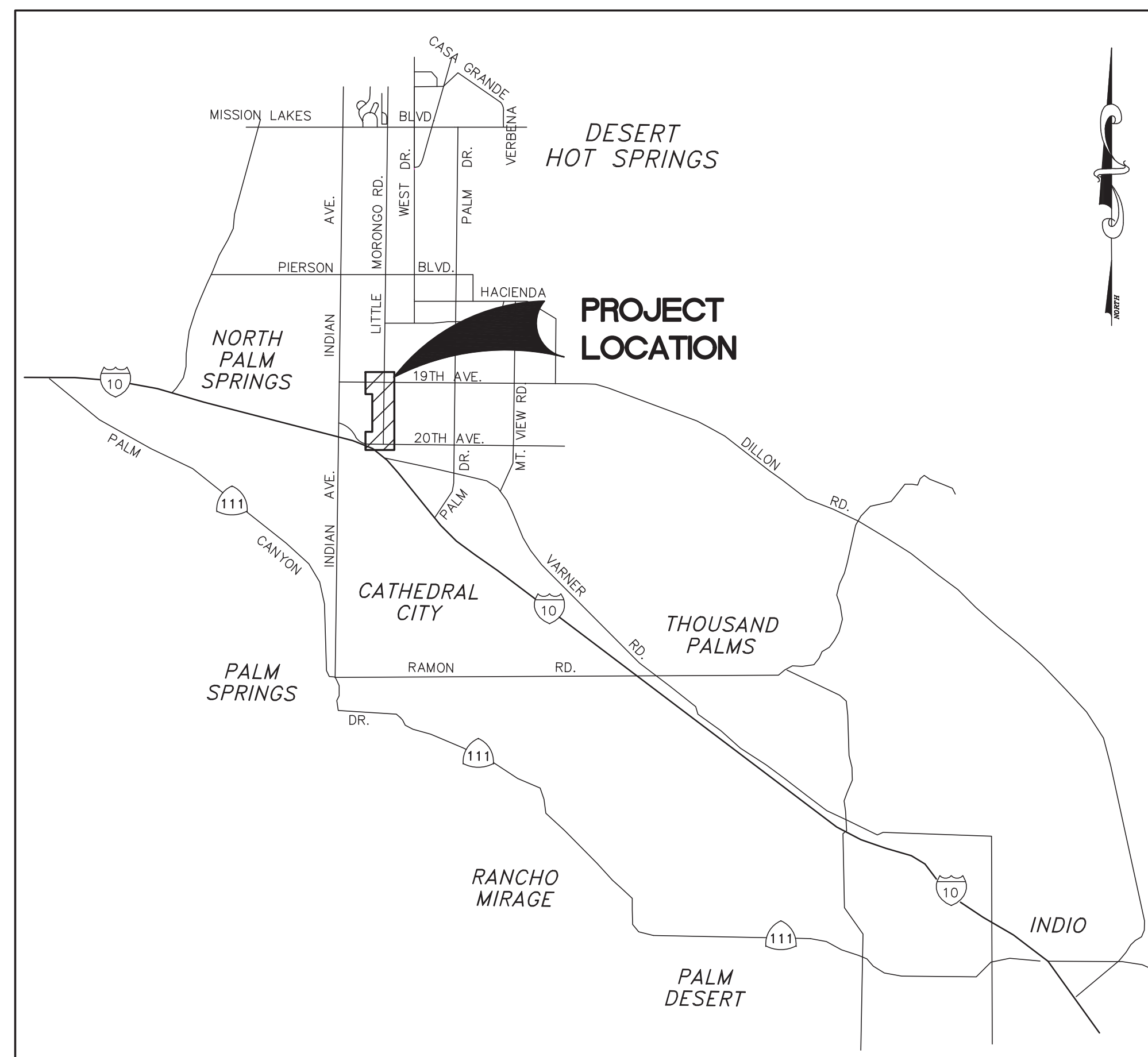
CITY OF DESERT HOT SPRINGS
COUNTY OF RIVERSIDE, CALIFORNIA

STREET IMPROVEMENT PLAN

ROADWAY DESIGN ON 19TH AVENUE, 20TH AVENUE, AND LITTLE MORONGO ROAD

DRAWINGS
SEPTEMBER 2024

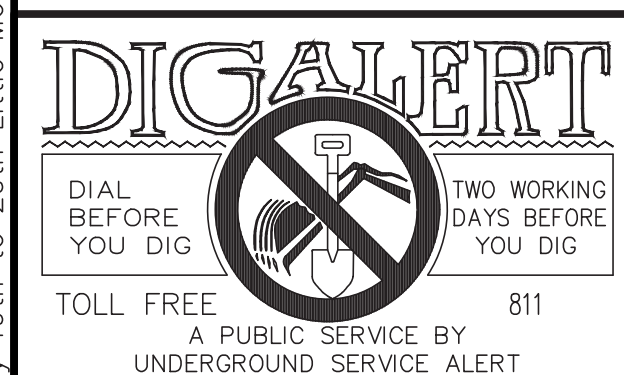
SHEET INDEX		
DWG NO.	SHEET NO.	DESCRIPTION
T-1	1	TITLE SHEET
GN-1	2	NOTES, INDEX MAP, LEGEND, SYMBOLS AND ABBREVIATIONS
GN-2	3	GENERAL AND CONSTRUCTION NOTES
C-1	4	20TH AVENUE PLAN/PROFILE STA. 15+10.86 TO STA. 25+00.00
C-2	5	20TH AVENUE PLAN/PROFILE STA. 25+00.00 TO STA. 32+50.00
C-3	6	LITTLE MORONGO ROAD PLAN/PROFILE STA. 10+00.00 TO STA. 17+00.00
C-4	7	LITTLE MORONGO ROAD PLAN/PROFILE STA. 17+00.00 TO STA. 25+00.00
C-5	8	LITTLE MORONGO ROAD PLAN/PROFILE STA. 25+00.00 TO STA. 32+00.00
C-6	9	LITTLE MORONGO ROAD PLAN/PROFILE STA. 32+00.00 TO STA. 39+54.97
C-7	10	19TH AVENUE PLAN/PROFILE STA. 18+59.99 TO STA. 24+00.00
C-8	11	19TH AVENUE PLAN/PROFILE STA. 24+00.00 TO STA. 30+00.00
DE-1	12	19TH AVENUE PLAN/PROFILE STA. 24+00.00 TO STA. 30+00.00
EC-1	1	EROSION CONTROL PLAN.
EC-2	2	EROSION CONTROL DETAILS.



VICINITY MAP
N.T.S.

DISTRICT ADMINISTRATION

BRIAN MACY	GENERAL MANAGER CHIEF ENGINEER
IVAN SEWELL	PRESIDENT
ROBERT GRIFFITH	VICE-PRESIDENT
AMBER DUFF	DIRECTOR
RUSS MARTIN	DIRECTOR
TED MAYRHOFEN	DIRECTOR



#	REVISIONS	DATE	APP.
1			
2			
3			
4			
5			
6			

BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NOS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2," DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.00000259.

2305 CHICAGO AVE
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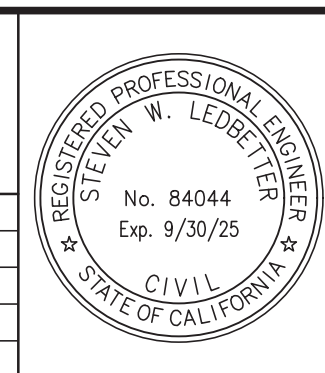
SCALE: AS SHOWN

PLOT DATE: xx-xx-xx

DESIGN BY: O.P.

DRAWN BY: E.P.

CHECKED BY: S.L.



PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

APPROVED BY MISSION SPRINGS WATER DISTRICT:

BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE

TITLE SHEET

SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. T-1
1 OF 12

PRIVATE REFERENCE #

MSWD REFERENCE #
11769

LEGEND OF SYMBOLS & ABBREVIATIONS:

	EXISTING FIRE HYDRANT		DELTA
	EXISTING AIR VALVE		E OR ELEC ELECTRICAL
	EXISTING WATER VALVE		EC END OF CURVE
	EXISTING POWER POLE		ECR END CURB RETURN
	EXISTING EDGE OF PAVEMENT		EL OR ELEV ELEVATION
	EXISTING MANHOLE		EG EXISTING GROUND
	EXISTING SURVEY CONTROL		EVC END VERTICAL CURVE
	EXISTING RIGHT-OF-WAY		EX EXISTING
	EXISTING STREET CENTERLINE		FG FINISHED GRADE
	EXISTING CURB AND GUTTER		FH FIRE HYDRANT
	EXISTING CURB OR AC BERM		FL FLOW LINE
	EXISTING EDGE OF UNGRADED ROAD		FS FINISH SURFACE
	EXISTING EDGE OF PAVED ROAD		GB GRADE BREAK
	EXISTING CHAIN LINK FENCE		HP HIGH POINT
	EXISTING WROUGHT IRON FENCE		L LENGTH
	PROPOSED CURB AND GUTTER		LF LINEAR FEET
	PROPOSED EDGE OF UNGRADED ROAD		LT LEFT
	PROPOSED FIRE HYDRANT		MIN MINIMUM
	PROPOSED AIR VALVE		MH MANHOLE
	PROPOSED EDGE OF PAVEMENT		MVC MIDDLE OF VERTICAL CURVE
	PROPOSED STREET SIGN		N.T.S. NOT TO SCALE
	PROPOSED RIGHT-OF-WAY		PCC PORTLAND CEMENT CONCRETE
	PROPOSED EDGE OF PAVED ROAD		PI POINT OF INTERSECTION
	PROPOSED CHAIN LINK FENCE		PL OR P PROPERTY LINE
	PROPOSED DOUBLE YELLOW STRIPING		PROP PROPOSED
	PROPOSED CENTER LINE STRIPING		PRC POINT OF REVERSE CURVE
	EXISTING WATER LINE		RT RIGHT
	EXISTING SEWER LINE		R/W RIGHT OF WAY
	ELECTRIC LINE		S SLOPE
	OVERHEAD ELECTRIC LINE		SCE SOUTHERN CALIFORNIA EDISON
	ABANDON		SHT SHEET
	ASPHALT CONCRETE		SMH SEWER MANHOLE
	ANGLE POINT		SS SANITARY SEWER
	BEGINNING OF CURVE		STA STATION
	BEGIN CURB RETURN		TC TOP OF CURB
	BEGIN VERTICAL CURVE		TYP TYPICAL
	BACK OF WALK		VPI VERTICAL POINT OF INTERCEPTION
	CENTERLINE		WTR OR W WATER
	CURB FACE		WM WATER METER
	CONSTRUCT		WV WATER VALVE

SPECIAL CONSTRUCTION NOTES:

- THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (MAIN LINES, LATERALS OR SERVICES) SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING AND SHALL BE REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
- ENGINEER HAS NOT BEEN NOTIFIED BY UTILITY AGENCIES OF ALL OR SOME POTENTIAL EXISTING FACILITIES. THEREFORE SOME EXISTING UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FIELD VERIFY POTENTIAL CONFLICTS PRIOR TO BID.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES IN THE PROXIMITY OF THE PROPOSED SEWER LINE. EXISTING UTILITIES (WATER, TELEPHONE, GAS, ETC.) SHALL REMAIN IN OPERATION AT ALL TIMES UNLESS OTHERWISE APPROVED IN WRITING BY THE APPROPRIATE UTILITY COMPANY.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE AFFECTED ORGANIZATIONS IN THE PROJECT AREA 2 DAYS PRIOR TO THE START OF ANY WORK. THE UTILITIES IN THE AREA ARE:

WATER/SEWER
MISSION SPRINGS WATER DISTRICT
(760) 329-6448

COUNTY ROADS
RIVERSIDE COUNTY
TRANSPORTATION DEPARTMENT
(760) 863-8267

CITY STREETS
CITY OF DESERT HOT SPRINGS
(760) 329-6411

ELECTRICITY
SOUTHERN CALIFORNIA EDISON
(909) 329-9445

TELEPHONE
AT&T TRANSMISSION
(714) 963-7964

WATER
COACHELLA VALLEY WATER DISTRICT
(760) 398-2651

GAS
SOUTHERN CALIFORNIA GAS
(909) 335-7955

TELEPHONE
FRONTIER
(800) 921-8101

CABLE TV
CHARTER
(760) 674-5455

FLOOD CONTROL
RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
(909) 955-1200

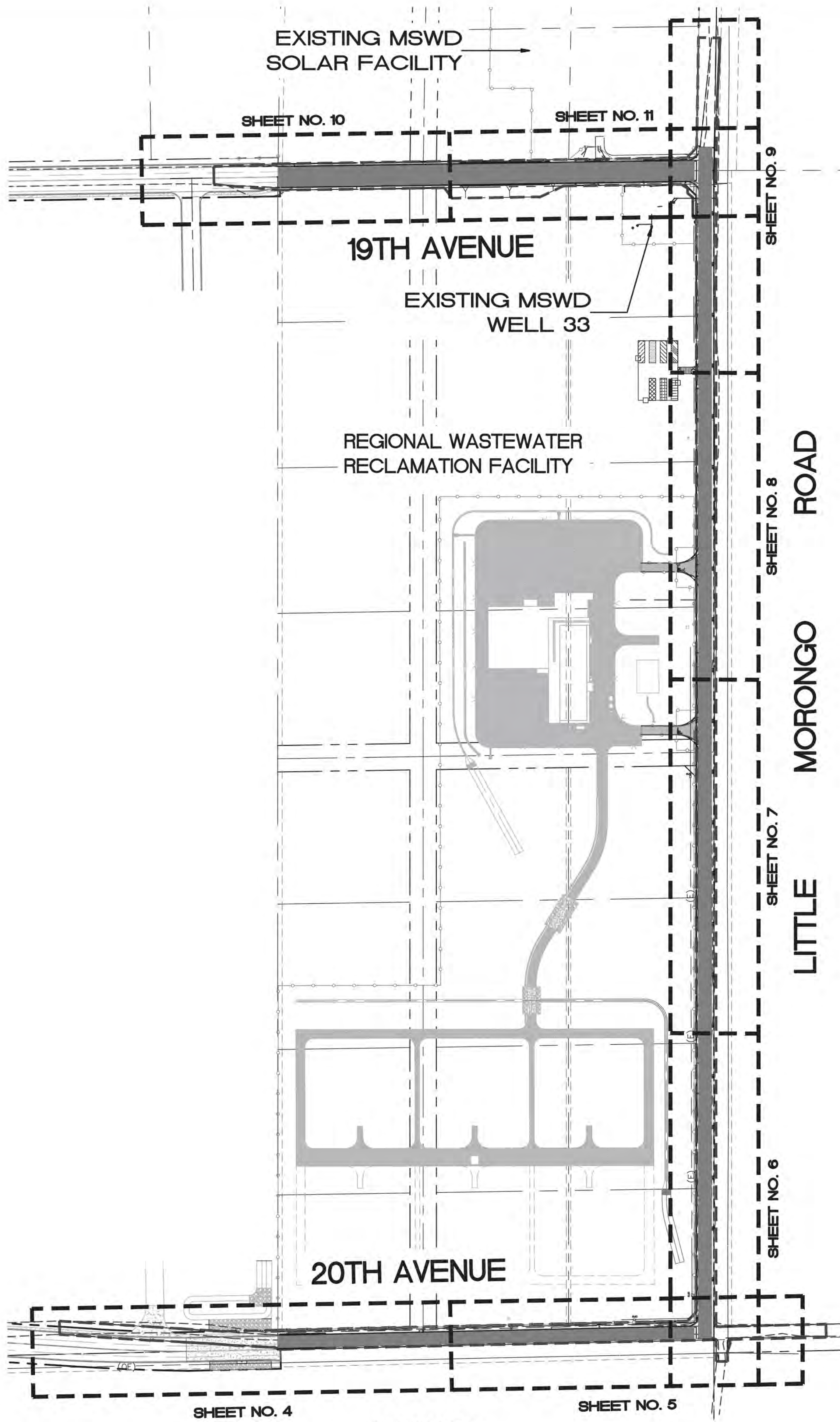
UNDERGROUND UTILITIES
UNDERGROUND SERVICE ALERT
(800) 227-2600

STREET IMPROVEMENT NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, OWNER OR CONTRACTOR TO APPLY TO THE CITY OF DESERT HOT SPRINGS ENGINEERING DEPARTMENT, PERMIT SECTION, FOR AN ENCROACHMENT PERMIT FOR ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY, AND TO BE RESPONSIBLE FOR SATISFACTORY COMPLIANCE FOR ALL CURRENT ENVIRONMENTAL REGULATIONS DURING THE LIFE OF CONSTRUCTION ACTIVITIES FOR THIS PROJECT. ADDITIONAL STUDIES AND/OR PERMITS MAY BE REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING THE PROPOSED WORK AREA AND FOR RELOCATION COSTS OF ALL EXISTING UTILITIES. PERMITEE MUST INFORM CITY OF DESERT HOT SPRINGS, ENGINEERING DEPARTMENT, OF CONSTRUCTION SCHEDULE AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. PHONE: (760) 329-6411 EXT. 224.
- THE DEVELOPER SHALL INSTALL STREET NAME SIGNS CONFORMING TO THE CITY OF DESERT HOT SPRINGS STANDARD NO. 804.
- ALL WORK SHALL CONFORM TO THESE PLANS, THE REQUIREMENTS OF THE CITY OF DESERT HOT SPRINGS OR WHERE APPLICABLE; THE RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT IMPROVEMENT STANDARDS AND SPECIFICATIONS, LATEST EDITION, COUNTY ORDINANCE NO. 461 AND SUBSEQUENT AMENDMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE PROJECT ENGINEER TO INSTALL STREET CENTERLINE MONUMENTS AS REQUIRED BY THE CITY OF DESERT HOT SPRINGS AND RIVERSIDE COUNTY ORDINANCE NO. 461.
- ALL UNDERGROUND FACILITIES, WITH LATERALS, SHALL BE IN PLACE PRIOR TO PAVING THE STREET, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: SEWER, WATER, ELECTRIC, GAS, AND STORM DRAINS.
- CURB DEPRESSIONS AND DRIVEWAY APPROACHES SHALL BE INSTALLED AND CONSTRUCTED ACCORDING TO CITY OF DESERT HOT SPRINGS STANDARD NO. 206, 207, 208, 209 OR 210 AS APPLICABLE.
- TO PROVIDE SAFE PASSAGE FOR THE TRAVELING PUBLIC AND WORKERS, IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER TO INSTALL AND MAINTAIN ALL CONSTRUCTION REGULATORY, GUIDE AND WARNING SIGNS WITHIN THE PROJECT LIMITS AND SURROUNDINGS UNTIL THE FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT BY THE CITY DESERT HOT SPRINGS.
- ALL STREET SECTIONS ARE TENTATIVE. THE MINIMUM SECTION IS 3" A.C./ 4" A.B. ADDITIONAL SOILS TESTS SHALL BE TAKEN BY THE DEVELOPER/OWNER AFTER ROUGH GRADING TO DETERMINE THE EXACT STREET SECTION STRUCTURAL REQUIREMENTS. USE RIVERSIDE COUNTY STANDARD NO. 401 IF EXPANSIVE SOILS ARE ENCOUNTERED.
- ASPHALTIC EMULSION (FOG SEAL) SHALL BE APPLIED NOT LESS THAN FOURTEEN DAYS FOLLOWING PLACEMENT OF THE ASPHALTIC SURFACING. FOG SEAL AND PAINT BINDER SHALL BE APPLIED AT A RATE OF 0.05 AND 0.03 GALLON PER SQUARE YARD RESPECTIVELY. ASPHALTIC EMULSION SHALL CONFORM TO SECTION 39 OF THE STATE STANDARD SPECIFICATIONS.
- PRIME COAT IS REQUIRED PRIOR TO PAVING ON ALL GRADES IN EXCESS OF TEN PERCENT (10%).
- INSTALL STREET TREES IN ACCORDANCE WITH THE CITY OF DESERT HOT SPRINGS ORDINANCE(S), WHERE APPLICABLE.
- STREET LIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED IMPROVEMENT PLANS.
- THE DEVELOPER IS RESPONSIBLE FOR ROAD IMPROVEMENTS UP TO THE CENTERLINE, AT A MINIMUM, AND MAY BE REQUIRED TO RECONSTRUCT EXISTING PAVEMENT, INCLUDING BASE AND MATCHING OVERLAY REQUIRED MEETING THE STRUCTURAL STANDARDS FOR THE CURRENTLY ASSIGNED TRAFFIC INDEX, AS DETERMINED BY THE CITY INSPECTOR AND CITY ENGINEER.
- WITHOUT SEPARATE LANDSCAPE PLANS, ONLY LANDSCAPING CONSISTING OF APPROVED DROUGHT TOLERANT PLANT MATERIALS MAY BE INSTALLED WITHIN THE PARKWAYS ON LOCAL RESIDENTIAL STREETS. ALL OTHER TYPES OF LANDSCAPING IN THESE AREAS, AND ALL LANDSCAPING ON ALL OTHER STREETS, SHALL BE REQUIRED SEPARATE LANDSCAPE PLANS. ALL LANDSCAPING ENCROACHMENTS SHALL CONFORM TO CITY OF DESERT HOT SPRINGS STANDARDS RELATING TO THE ADMINISTRATION OF LANDSCAPE ENCROACHMENTS.
- ANY PRIVATE DRAINAGE FACILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. BY SIGNING THESE IMPROVEMENT PLANS, NO REVIEW OR APPROVAL OF THOSE PRIVATE FACILITIES IS IMPLIED OR INTENDED BY THE CITY OF DESERT HOT SPRINGS.
- CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNERS/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB), PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPP) AND A MONITORING PLAN FOR THE SITE.
- DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS OUTLINED IN THE CITY'S PM10 REQUIREMENTS. A PM10 PLAN SHALL BE SUBMITTED TO THE CITY AND SCAQMD, IF REQUIRED.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SIGNS AND MARKINGS NOT SHOWN HEREON, OR ON ROADWAYS ADJACENT TO THE PROJECT BOUNDARIES, TO IMPROVE TRAFFIC SAFETY ON THE ROADS UNDER THE JURISDICTION OF THE DEVELOPER, UPON THE REQUEST OF THE CITY ENGINEER, CITY INSPECTOR OR HIS DESIGNEE.
- EXISTING STORM DRAIN PIPES / CULVERTS (WHETHER TO BE CONNECTED TO, EXTENDED, ADJUSTED, DRAINED TO, OR JUST IN THE PROJECT VICINITY) MUST BE REPAIRED, AND /OR CLEARED TO MAKE THEM FUNCTIONAL AND ACCEPTABLE, AS DIRECTED BY THE CITY ENGINEER OR CITY INSPECTOR.
- AN APPROVED SOIL STERILIZER SHALL BE USED ON ALL PAVING ARE SUB GRADE SURFACES PRIOR TO PLACEMENT OF PAVING. RATE OF CHEMICAL APPLICATION SHALL BE PER MANUFACTURER'S SUGGESTION.
- WHENEVER A CONSTRUCTION SITE IS WITHIN ONE-QUARTER (1/4) OF A MILE OF AN OCCUPIED RESIDENCE, NO CONSTRUCTION ACTIVITIES SHALL BE UNDERTAKEN BETWEEN THE HOURS OF 6:00 PM AND 6:00 AM DURING THE MONTHS OF JUNE THROUGH SEPTEMBER AND BETWEEN THE HOURS OF 6:00 PM AND 7:00 AM DURING THE MONTHS OF OCTOBER THROUGH MAY. EXCEPTIONS TO THESE STANDARDS SHALL BE ALLOWED ONLY WITH THE WRITTEN CONSENT OF THE CITY ENGINEER.

GEOTECHNICAL INFORMATION:

THE SPECIFIC SOIL INVESTIGATION WAS CONDUCTED FOR THIS PROJECT BY ARAGON GEOTECHNICAL, INC., GEOTECHNICAL INVESTIGATION PROJECT, MSWD, ROADWAY IMPROVEMENTS, LITTLE MORONGO ROAD, DESERT HOT SPRINGS, COUNTY OF RIVERSIDE, CA, DATED FEBRUARY 22, 2023.



INDEX MAP:
SCALE: 1" = 160'



#	REVISIONS	DATE	APP.
1			
2			
3			
4			
5			

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PLOT DATE: XX-XX-XX
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DRAWN BY: E.P.
CHECKED BY: S.L.



PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

APPROVED BY MISSION SPRINGS WATER DISTRICT:

BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE

NOTES, INDEX MAP, LEGEND, SYMBOLS
AND ABBREVIATIONS

SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **GN-1**

2 OF **12**

PRIVATE REFERENCE #

MSWD REFERENCE #

11769

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION UNDER COUNTY OF RIVERSIDE, CITY OF DESERT HOT SPRINGS OR CALTRANS JURISDICTION SHALL CONFORM TO ALL PROVISIONS OF THE PROJECT SPECIFICATIONS, SPECIAL CONDITIONS, STANDARD AND CONSTRUCTION DRAWINGS, ALL INCLUSIVE UNDER THIS CONTRACT. IN THE EVENT OF ANY CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
2. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE PROJECT SPECIFICATIONS, STANDARD DRAWINGS AND THE SPECIAL REQUIREMENTS FOR THIS PROJECT.
3. CONSTRUCTION WILL BE DONE ONLY UNDER SIGNED AND APPROVED PLANS. CUT SHEETS SHALL BE PROVIDED TO THE DISTRICT 24-HOURS PRIOR TO CONSTRUCTION FOR THE DISTRICT'S REVIEW.
4. THE SANITARY SEWER WILL BE INSTALLED BEFORE ANY OTHER UNDERGROUND FACILITIES ARE CONSTRUCTED EXCEPT WHEN OTHER UTILITIES ARE PROPOSED THAT WILL BE DEEPER THAN THE SANITARY SEWERS. INSTALLATION INCLUDES, BUT IS NOT LIMITED TO, STAKING, PIPELINE INSTALLATION, COMPACTION TESTING, AIR TEST, WASH AND VIDEO REVIEWS. AIR TESTS, WASH AND VIDEO WILL BE COMPLETED PRIOR TO INSTALLATION OF DOMESTIC WATER AND SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREENBOOK" OR AS DIRECTED BY THE DISTRICT RESIDENT INSPECTOR/REPRESENTATIVE. THE DISTRICT RESERVES THE RIGHT TO REQUIRE ADDITIONAL AIR TESTS, WASHES AND VIDEO REVIEWS PRIOR TO FINAL ACCEPTANCE OF FACILITIES.
5. CURBS AND GUTTERS SHALL BE IN PLACE BEFORE ANY DOMESTIC WATER PIPELINES AND APPURTENANCES ARE CONSTRUCTED. FINAL GRADES SHALL BE ESTABLISHED BEFORE THE INSTALLATION OF WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES.
6. DOMESTIC WATER LINES SHALL BE INSTALLED IN ACCORDANCE TO THE DISTRICT STANDARD SPECIFICATIONS, AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS AND/OR STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - "GREENBOOK". INSTALLATION INCLUDES BUT IS NOT LIMITED TO STAKING, PIPELINE INSTALLATION, COMPACTION, HYDROSTATIC PRESSURE TEST AND CHLORINATION/DISINFECTION IN ACCORDANCE TO THE AWWA STANDARDS AND THE DISTRICT STANDARD SPECIFICATIONS FOR CONSTRUCTING WATER AND SEWER FACILITIES.
7. REPLACEMENT PAVING (ONSITE & OFFSITE), TRAFFIC CONTROL, RE-STRIPING, SPECIAL TRENCH BACKFILL, BASE REQUIREMENTS, ETC. SHALL BE IN ACCORDANCE WITH THE RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT ENCROACHMENT PERMIT AND/OR THE CITY OF DESERT HOT SPRINGS PERMIT REQUIREMENTS AND AS DETAILED IN THE PROJECT SPECIFICATIONS AT NO ADDITIONAL COST TO THE DISTRICT. THE CONTRACTOR SHALL NOTIFY THE COUNTY AND/OR CITY AT LEAST 48 WORKING HOURS PRIOR TO STARTING CONSTRUCTION. IF THE PROPOSED PIPELINE CROSSES A PAVED STREET AT OTHER THAN 90 DEGREES, THE LIMITS OF PAVEMENT OVERLAY SHALL BE AT RIGHT ANGLES TO THE STREET CENTERLINE AND SHALL ENCOMPASS THE ENTIRE TRENCH PAVING.
8. CONTRACTOR IS RESPONSIBLE FOR EROSION, DUST AND TEMPORARY DRAINAGE CONTROL DURING OPERATIONS AND AFTER WORKING HOURS. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO COMPLY WITH ALL APPLICABLE REGULATIONS.
9. PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE, JOINTS, AND LININGS AND COATINGS. THE PIPE SHALL BE BEDDED CAREFULLY TO PROVIDE CONTINUOUS BEARING AND PREVENT UNEVEN SETTLEMENT; PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES, OPEN ENDS SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS IN PROGRESS.
10. PIPE JOINTS SHALL NOT BE DEFLECTED AT ANY ANGLE GREATER THAN THE MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER.
11. ALL REVISIONS TO THESE DRAWINGS MUST BE APPROVED IN WRITING BY THE MSWD DISTRICT PRIOR TO AFFECTED ACTUAL CONSTRUCTION.
12. TRAFFIC STRIPING AND/OR LANE MARKINGS WHICH ARE OBLITERATED SHALL BE REPLACED IN KIND AS DIRECTED BY THE AGENCY HAVING JURISDICTION OVER THE ROADWAY.
13. NO CONSTRUCTION OR INSTALLATION SHALL BE PERMITTED ON FILL MATERIAL WHICH DOES NOT MEET THE COMPACTION REQUIREMENTS DEFINED IN THE SOILS REPORT.
14. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6409.1(8) OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
15. ALL CONTRACTOR(S)/SUBCONTRACTOR(S) PERFORMING WORK ON THIS PROJECT SHALL BE FAMILIAR WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES DIRECTLY OR INDIRECTLY FROM OPERATIONS. SAID EXISTING FACILITIES SHALL INCLUDE, BUT ARE NOT LIMITED TO, DIRT BERMS, DITCHES, FENCES, MAILBOXES, DRIVEWAYS, SIDEWALKS AND PLANTS/LANDSCAPING. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND SHALL BE APPROVED BY THE DISTRICT.
16. ALL CONTRACTOR(S)/SUBCONTRACTOR(S) SHALL EXAMINE CAREFULLY THE SITE OF THE WORK CONTEMPLATED AS WELL AS THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONCLUSIVE EVIDENCE THAT THE CONTRACTOR/SUBCONTRACTOR HAS INVESTIGATED THE PROJECT SITE AND REVIEWED THE PLANS & SPECIFICATIONS AND IS SATISFIED AS TO THE REQUIREMENTS, QUALITY, THE SCOPE OF WORK TO BE PERFORMED AND THE QUANTITIES OF MATERIALS TO BE FURNISHED.
17. ALL EXCESS MATERIAL GENERATED FROM THE PROJECT EXCAVATION AND/OR COMPACTION SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
18. ALL EXISTING AND NEW INFRASTRUCTURE (VALVE CANS, MANHOLES, ETC.) MUST BE BROUGHT AT GRADE LEVEL THROUGHOUT THE ENTIRE COURSE OF CONSTRUCTION.
19. SITE PAVING SHALL NOT BE PLACED UNTIL ALL UNDERGROUND FACILITIES HAVE BEEN INSTALLED, TESTED AND APPROVED BY THE MSWD DISTRICT.
20. STATIONS SHOWN ARE HORIZONTAL DISTANCES ALONG CENTERLINE OF THE SEWER GRAVITY PIPE AND CENTERLINE OF SEWER FORCE MAIN. STATIONS OF THE STREET CENTER LINE ARE SHOWN FOR REFERENCE ONLY.
21. CONTRACTOR SHALL SHORE ALL TRENCHES AS REQUIRED AND CONDUCT ALL CONSTRUCTION AND OPERATIONS IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS.
22. CONTRACTOR IS REQUIRED TO CONTACT MSWD'S AND COUNTY OF RIVERSIDE BUILDING AND SAFETY'S INSPECTOR 48 HOURS PRIOR TO START OF CONSTRUCTION. DAILY COMMUNICATION THROUGHOUT THE ENTIRE DURATION OF THE PROJECT IS REQUIRED. CONTRACTOR SHALL CALL MISSION SPRINGS WATER DISTRICT'S OFFICE BY 3:30 P.M. FOR THE FOLLOWING DAY'S INSPECTION.
23. APPROVAL BY MSWD IMPLIES NO PERMISSION OTHER THAN THAT WITHIN THE DISTRICT'S JURISDICTION. ALL REQUIRED PERMITS BY LAW, SHALL BE OBTAINED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED IN MSWD PROJECT SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES (CONT.):

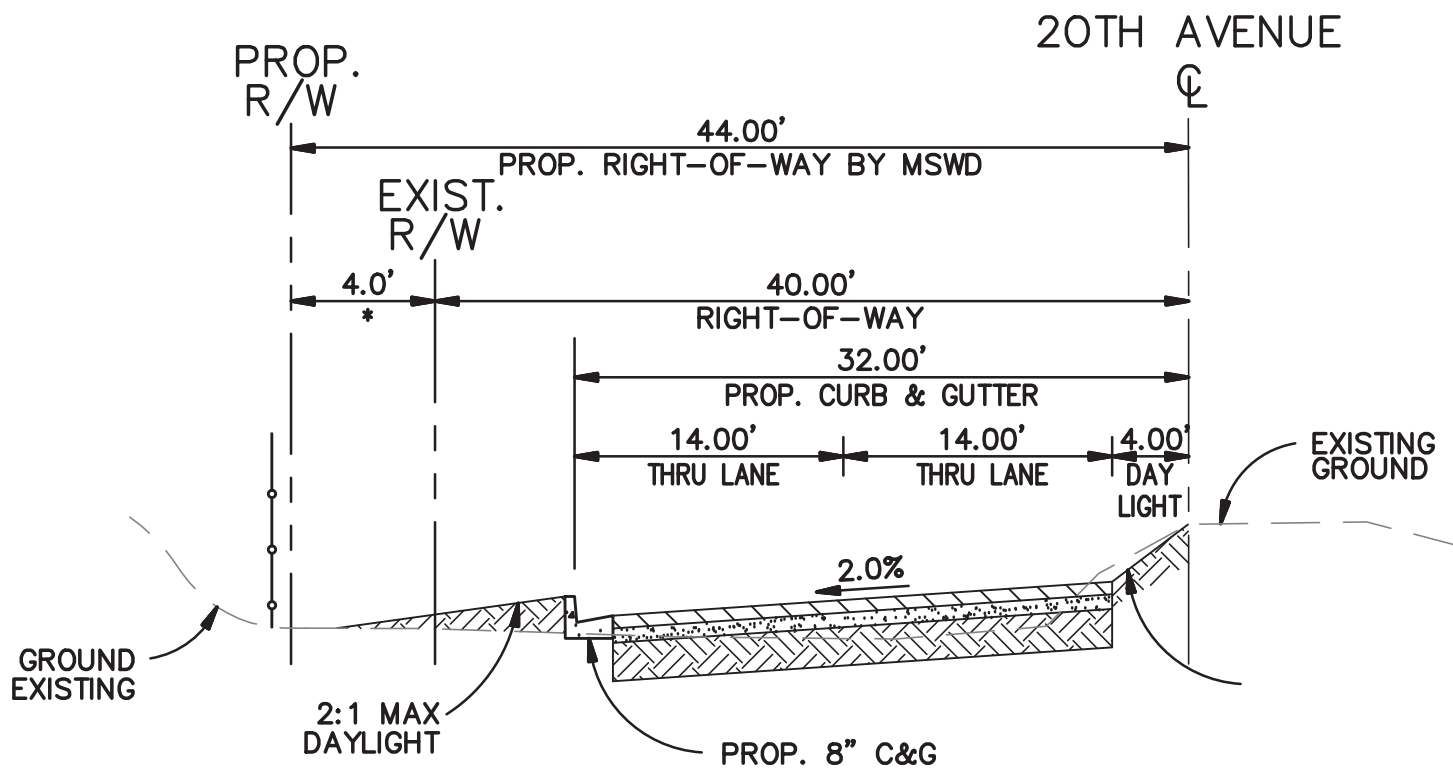
24. THE MINIMUM DEPTH OF COVER FOR THE VARIOUS UNDERGROUND UTILITIES IS DEPICTED IN THE PROFILE (BY SCALING ONLY) AND GIVEN BELOW. THE DEPTHS ARE BASED UPON AVAILABLE INFORMATION. THE ACCURACY OF THIS INFORMATION; HOWEVER, IS NOT GUARANTEED BY THE DISTRICT OR THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE DISTRICT FOR UTILITIES AT ELEVATIONS DIFFERENT THAN DEPICTED OR GIVEN BELOW:
WATER: 36" TO 48"
TELEPHONE CABLES: 30"
ELECTRICAL CABLES: 30"
CABLE TV. CABLES: 30"
GAS MAINS: 36"
25. THE CONTRACTOR SHALL DETERMINE LOCATION AND DEPTH OF ALL THE EXISTING UNDERGROUND FACILITIES BY POT-HOLING PRIOR TO ANY TRENCHING AND/OR EXCAVATION. THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE (IN ACCORDANCE TO THE SPECIFICATIONS, ONLY MAIN LINES ARE SHOWN; NO LATERALS OR SERVICES ARE SHOWN). CONTRACTOR SHALL COORDINATE WITH THE DISTRICT FOR FIELD LOCATION OF SERVICES AND CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR PROTECTING ALL EXISTING SERVICES AT NO ADDITIONAL COST TO THE DISTRICT. NEITHER THE OWNER NOR THE DESIGN ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND/OR ANY OTHER UNDERGROUND UTILITY LINES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO CALL UNDERGROUND SERVICE ALERT (USA DIG ALERT) AT (811), AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION.
26. ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING AND/OR PROPOSED UTILITIES AT CROSSING ARE TO THE OUTSIDE OF CONDUIT (TOP & BOTTOM), UNLESS OTHERWISE INDICATED.
27. CONTRACTOR IS RESPONSIBLE FOR KEEPING-UP-TO-DATE RECORD DRAWINGS (RED-LINES) OF ANY DEVIATIONS FROM THE PLANS DURING CONSTRUCTION.
28. CONTRACTOR SHALL PROVIDE AN ACCURATE AND LEGIBLE COPY OF THE RECORD DRAWING PLANS TO THE DESIGN ENGINEER. THE ENGINEER WILL SUPPLY THE DISTRICT WITH A COPY OF RECORD DRAWING MYLAR PLANS, ALONG WITH AN ELECTRONIC FILE (PDF & AUTOCAD FORMAT) AT NO ADDITIONAL COST TO THE DISTRICT.
29. THE DISTRICT RESERVES THE RIGHT TO REQUEST ANY MODIFICATION TO THE PLANS DURING CONSTRUCTION AS NECESSARY AT NO ADDITIONAL COST TO THE DISTRICT.

DEMOLITION NOTES:

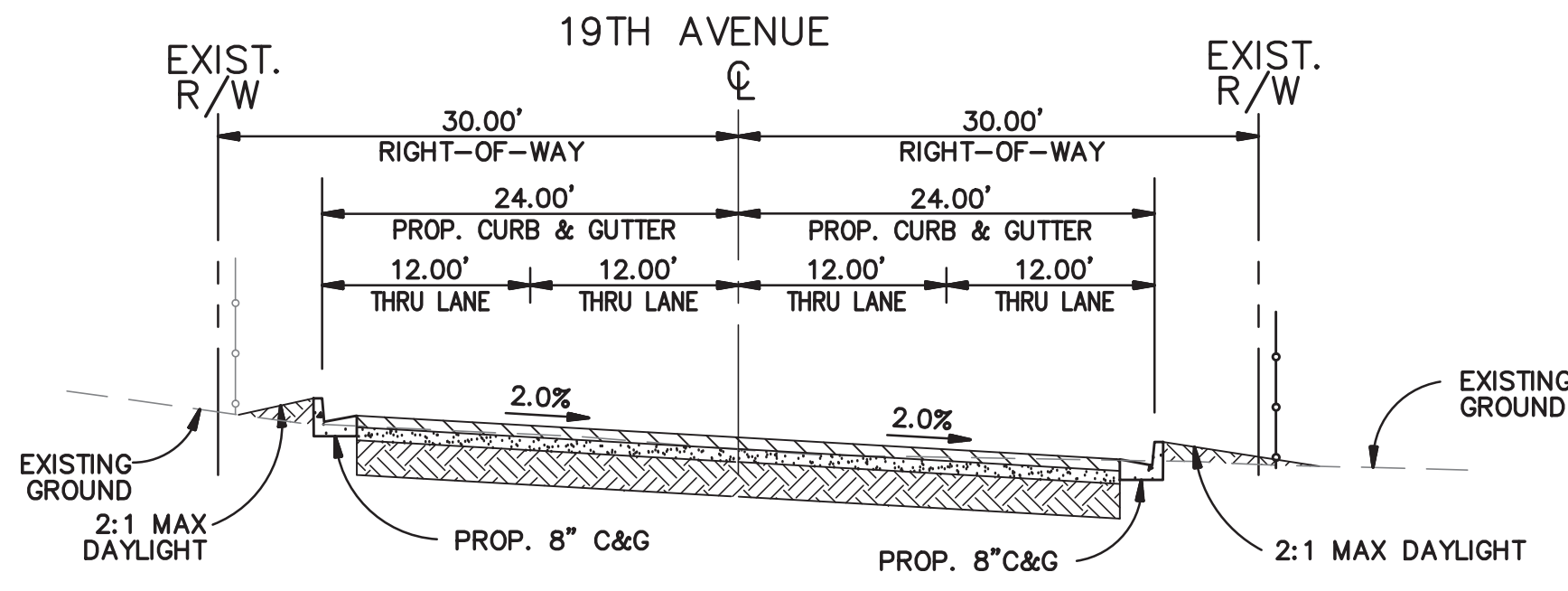
- | | | |
|----|--|-----------|
| 1 | PROTECT IN PLACE, AS NOTED.. | 1 LS |
| 2 | CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.. | 1 LS |
| 3 | REMOVE, SALVAGE AND RELOCATE EXISTING CHAIN-LINK FENCE, INC GATES. AS SHOWN ON PLANS. | 330 LF. |
| 4 | ADJUST EXISTING WATER VALVE TO GRADE.. | 3 EA |
| 5 | CONTRACTOR TO REMOVE AND RELOCATE EXISTING FIRE HYDRANT PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.. | 1 EA |
| 6 | SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND SUBGRADE AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.. | 5,800 SF. |
| 7 | ADJUST EXISTING SEWER MANHOLE TO GRADE. | 6 EA |
| 8 | REMOVE EXISTING ELECTRIC BOX AND RELOCATE BEHIND CURB AS SHOWN ON PLANS. | 1 EA |
| 9 | CONTRACTOR TO REMOVE, AND RELOCATE EXISTING AIR VALVE PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.. | 1 EA |
| 10 | REMOVE EXISTING STEEL POST, INCLUDING FOOTING. | 1 LS |
| 11 | REMOVE EXISTING ABANDONED ELECTRIC VAULT AND HANDHOLE. CONTRACTOR COORDINATE REMOVAL WITH M.S.W.D. | 2 EA |
| 12 | CONTRACTOR TO REMOVE AND RELOCATE EXISTING MONITORING WELL PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.. | 1 EA |

CONSTRUCTION NOTES:

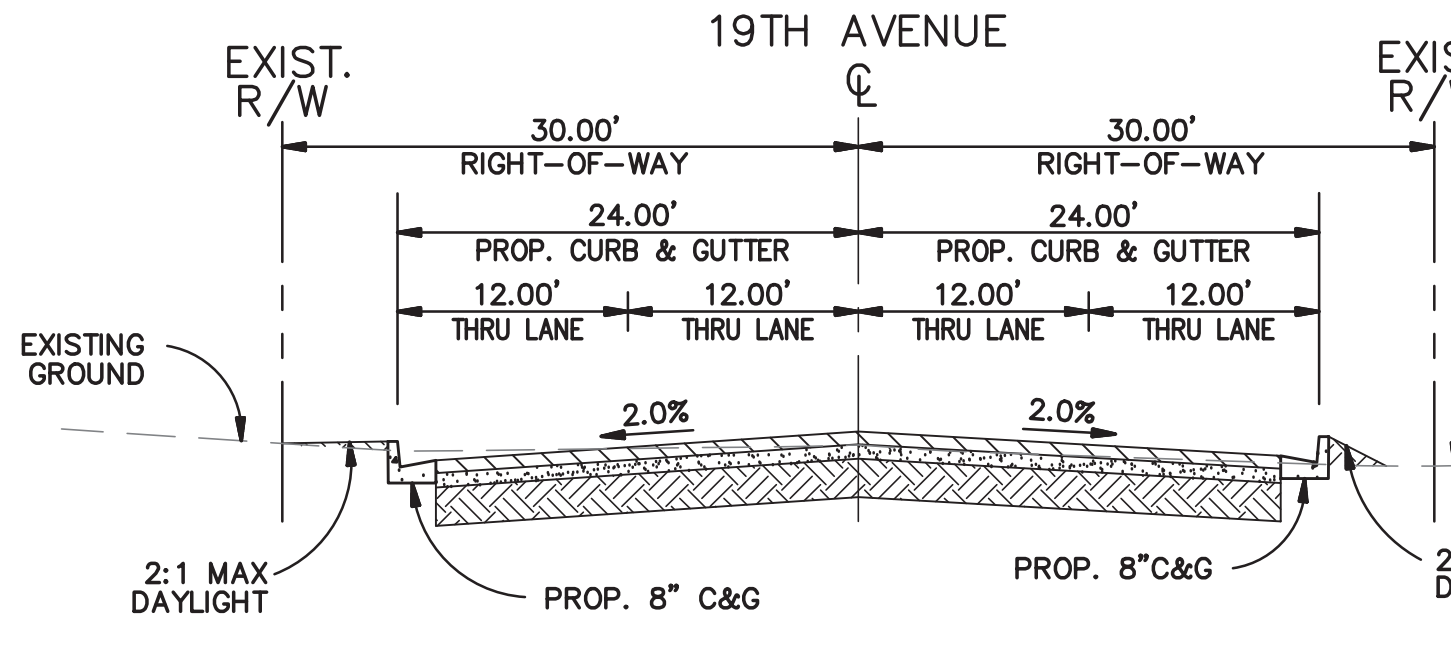
- | | | |
|----|--|-------------|
| 1 | CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200. | 5,005 LF. |
| 2 | CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION. | 159,425 SF. |
| 3 | CONSTRUCT ROAD PATH TRANSITION AS SHOWN ON PLANS. | 35,330 SF. |
| 4 | CONSTRUCT CUT OFF WALL, 8" WIDE AND 2' DEEP PER DETAIL "A", ON SHEET 3. | 145 LF. |
| 5 | CONSTRUCT PCC CROSS GUTTER AND/OR SPANDREL PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 211. | 3 EA |
| 6 | CONSTRUCT DRAINAGE SWALE AS SHOWN ON PLANS. | 1 LS |
| 7 | CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX). | 1 LS |
| 8 | CONSTRUCT 8" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 207. MODIFY LAYOUT PER DRIVEWAY DETAIL, SEE SHEET 12. | 1,812 SF |
| 9 | CONSTRUCT 6" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 208. | 512 SF. |
| 10 | FURNISH AND INSTALL SIGN AS NOTED AND PER CITY DESERT HOT SPRINGS STANDARD DRAWING NO. 804 | 12 EA |
| 11 | APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 2. | 1,007 LF. |
| 12 | APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 6. | 2,341 LF. |
| 13 | APPLY THERMOPLASTIC, 12" SOLID WHITE STOP BAR. | 66 LF. |
| 14 | APPLY THERMOPLASTIC, 4" WHITE LANE STRIPE PER CA. MUTCD 2014, FIG. 3A-102(CA), DETAIL 9. | 1,885 LF. |
| 15 | APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22. | 1,000 LF. |
| 16 | APPLY THERMOPLASTIC, WHITE PAVEMENT LEGEND AS SHOWN PER CA. MUTCD 2014, FIG. 3B-23(CA). | 15 EA |
| 17 | APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B. | 3,640 LF. |



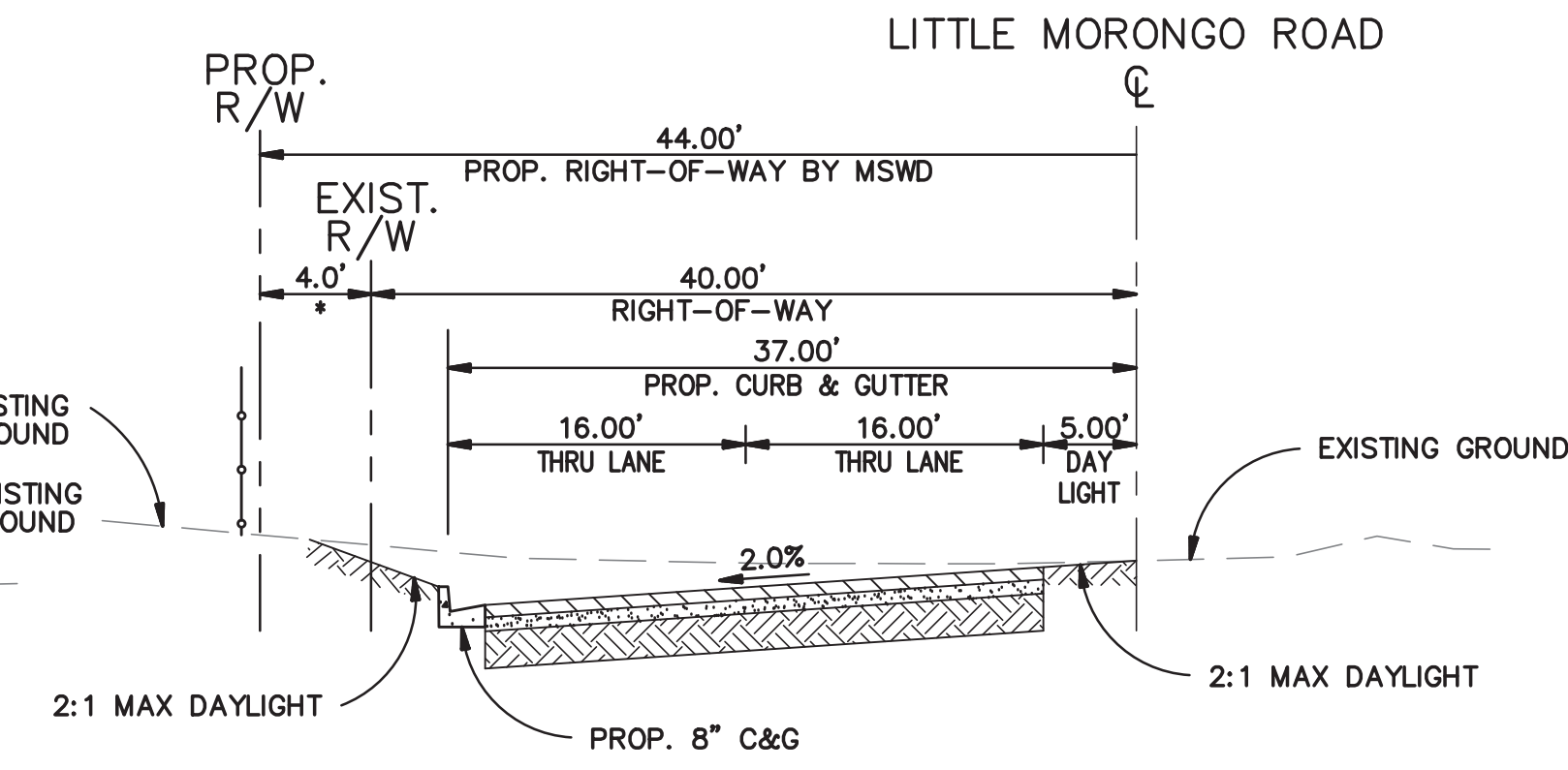
20TH AVENUE
TYPICAL SECTION
COLLECTOR
TRAFFIC INDEX - 7.0
STA. 20+10.86 TO STA. 27+50.00
SCALE: N.T.S.



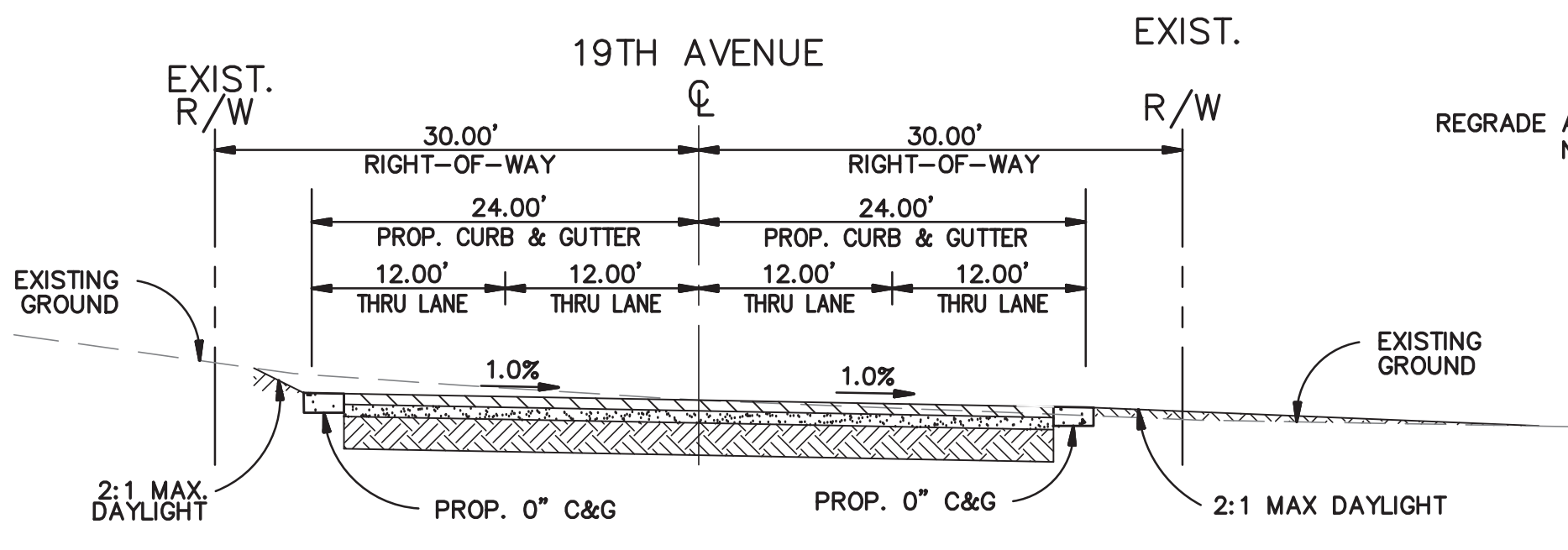
19TH AVENUE
TYPICAL SECTION
SECONDARY II
TRAFFIC INDEX - 5.5
STA. 27+00.00 TO STA. 29+32.19
SCALE: N.T.S.



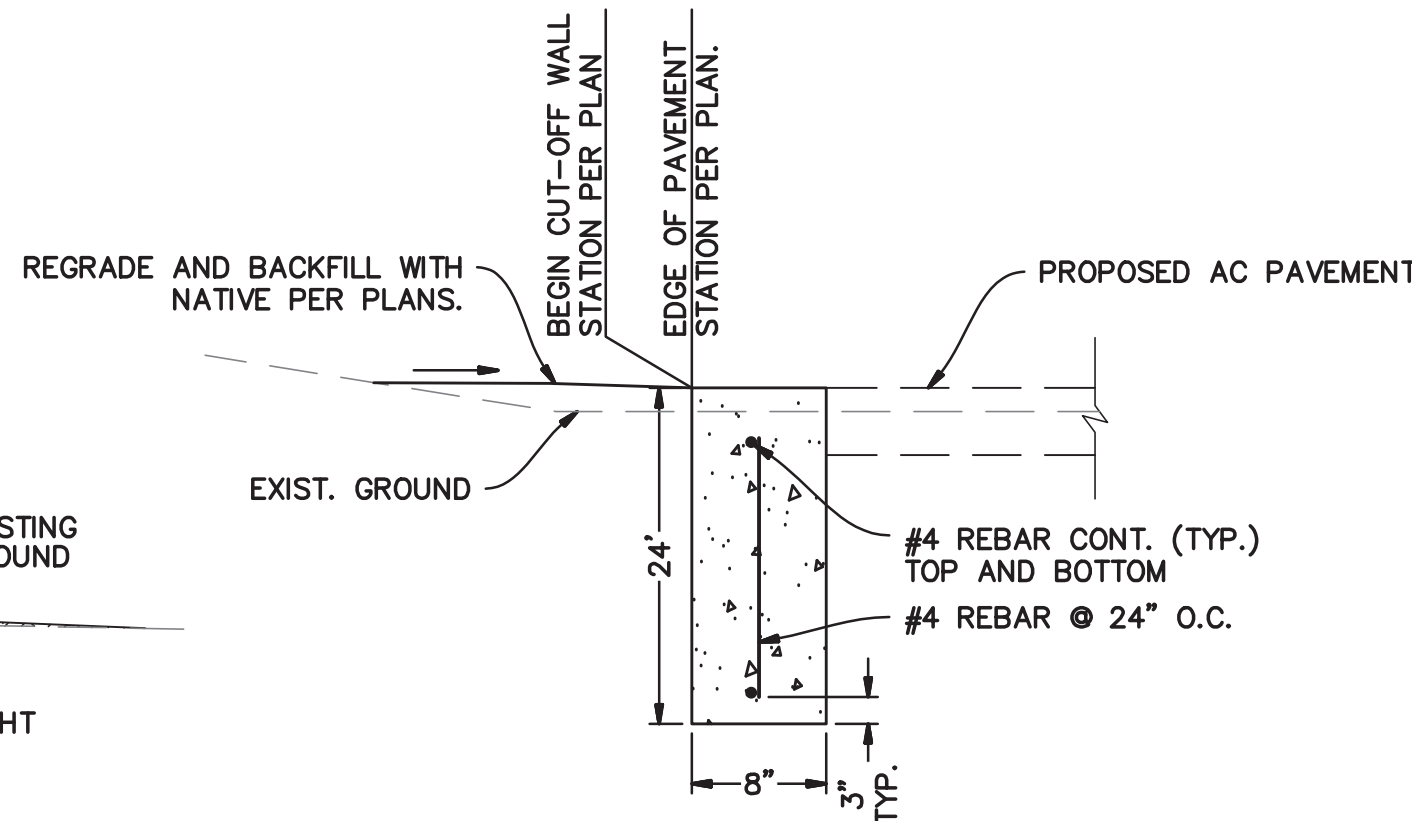
19TH AVENUE
TYPICAL SECTION
SECONDARY II
TRAFFIC INDEX - 5.5
STA. 20+09.99 TO STA. 22+00.00
SCALE: N.T.S.



LITTLE MORONGO ROAD
TYPICAL SECTION
SECONDARY II
TRAFFIC INDEX - 7.0
STA. 11+50.00 TO STA. 33+75.00
SCALE: N.T.S.



19TH AVENUE
TYPICAL SECTION
SECONDARY II
TRAFFIC INDEX - 5.5
STA. 24+00.00 TO STA. 26+00.00
SCALE: N.T.S.



REINFORCED CONCRETE CUTOFF WALL
DETAIL A
SCALE: N.T.S.

- TYPICAL SECTIONS LEGEND:
- PROPOSED PCC CURB AND GUTTER
 - AGGREGATE COURSE PAVEMENT
 - AGGREGATE BASE CLASS II
 - COMPACTED NATIVE TO 95% COMPACTION

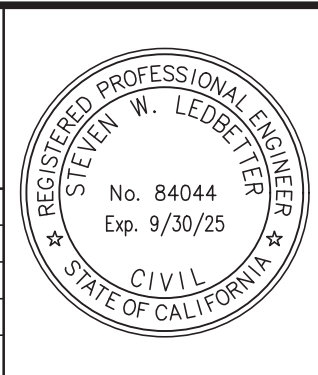
NOTE:

- * PROPOSED RIGHT OF WAY PER PARCEL MAP NO. 37832 RECORD PENDING.



#	REVISIONS	DATE	APP.
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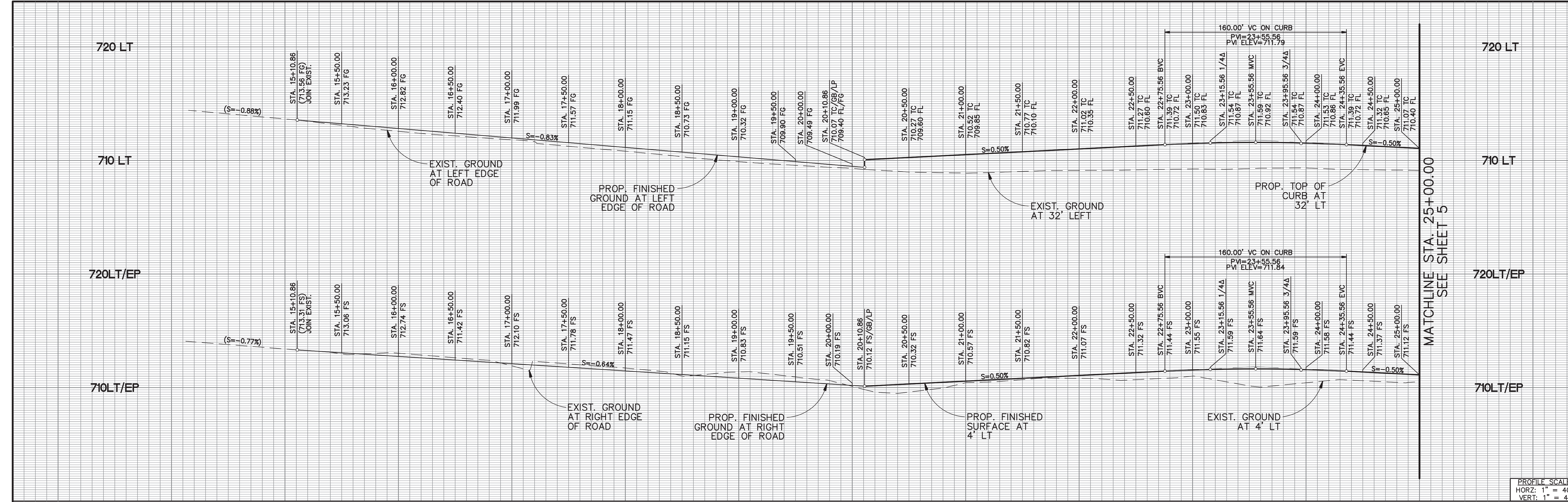
BENCHMARK: ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NGS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.	TKE ENGINEERING	2305 CHICAGO AVE RIVERSIDE, CA 92507 P: (951) 680-0440 F: (951) 680-0490
BASIS OF BEARING: HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-A" AND "MAIN SITE SURVEY BASE MAP-B-2" DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.00002259.	SCALE: AS SHOWN PLOT DATE: xx-xx-xx DESIGN BY: O.P. DRAWN BY: E.P. CHECKED BY: S.L.	



PREPARED UNDER THE DIRECT SUPERVISION OF:	APPROVED BY MISSION SPRINGS WATER DISTRICT:
STEVEN W. LEDBETTER R.C.E. #84044 EXP. 9-30-25	BRIAN MACY, P.E. GENERAL MANAGER / CHIEF ENGINEER
DATE	DATE

MISSION SPRINGS WATER DISTRICT STREET IMPROVEMENT PLAN LITTLE MORONGO ROAD, 19TH AVENUE AND 20TH AVENUE GENERAL AND CONSTRUCTION NOTES	DWG. GN-2 3 OF 12 PRIVATE REFERENCE # MSWD REFERENCE # 11769
SECTION 14 TOWNSHIP 3 S RANGE 4 E	

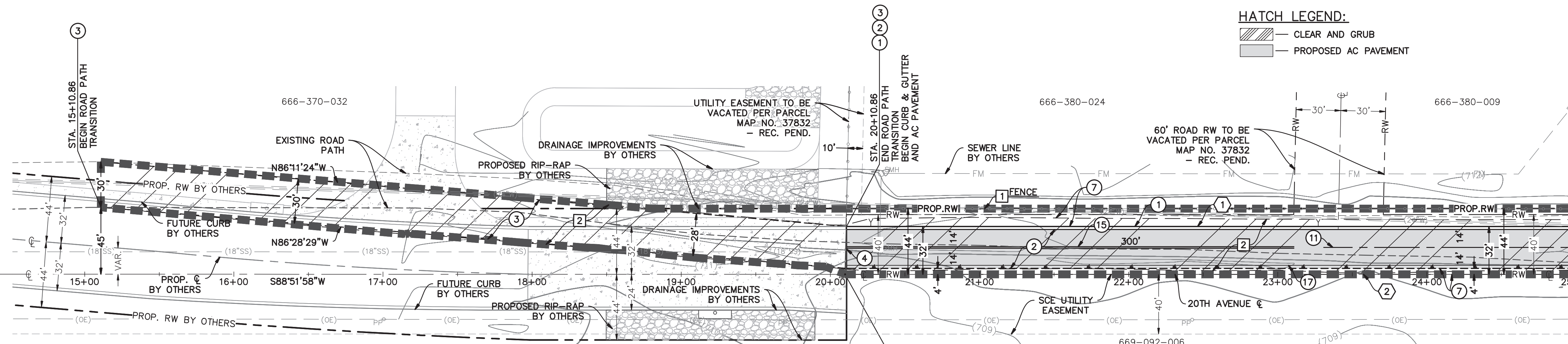
S:\CADD\110-90 Roadway 19th to 20th Little Morongo\Plan Set\110-90_SH04_DWST.dwg



PROFILE SCALE
HORIZ: 1" = 40'
VERT: 1" = 4'

TGT. NO. 1
STA. 3+47.81
20TH AVENUE @
FD 1IN IP PP LS 4989
ELEV.= 717.32

TGT. NO. 3
STA. 30+00.00 20TH AVE. @/
STA. 10+00.00 LITTLE MORONGO RD. @
FD 1IN IP PP RV CO TRANS
ELEV.= 707.11



HATCH LEGEND:
CLEAR AND GRUB
PROPOSED AC PAVEMENT

STREET IMPROVEMENT CONSTRUCTION NOTES:

- CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
- CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
- CONSTRUCT ROAD PATH TRANSITION AS SHOWN ON PLANS.
- CONSTRUCT CUT OFF WALL, 8" WIDE AND 2' DEEP PER DETAIL "A", ON SHEET 3.
- CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).
- APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 2.

STREET IMPROVEMENT CONSTRUCTION NOTES CONT.:

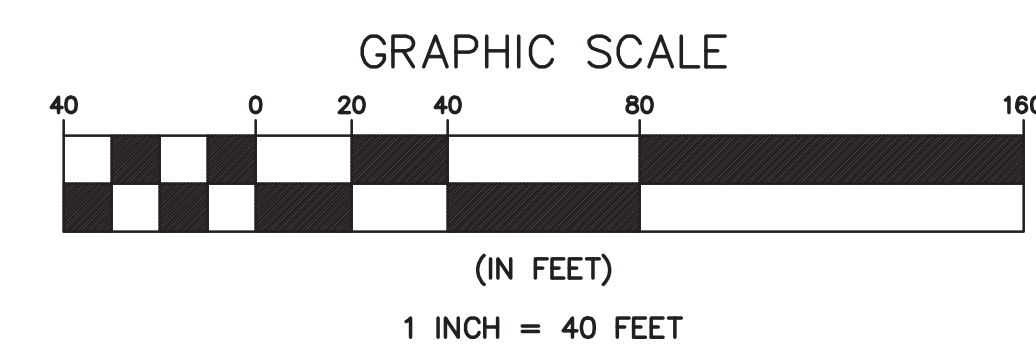
- APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.
- APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

DEMOLITION NOTES:

- PROTECT IN PLACE, AS NOTED.
- CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.

SURVEY CONTROL TABLE			
TGT No.	NORTHING	EASTING	BEARING
1	2272357.18	6474685.11	S88°51'58"W
2	2272390.07	6476346.87	S88°51'22"W
3	2272409.84	6477336.78	S88°51'22"W

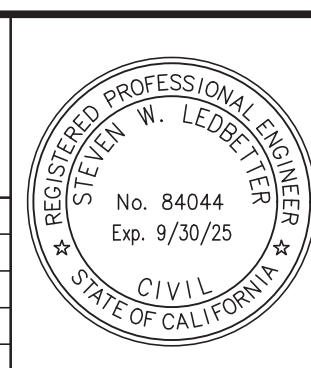
CURVE/LINE TABLE			
#	DELTA/BEARING	RADIUS	LENGTH
1	S88°51'22"W	-	389.14'
2	S88°51'22"W	-	990.11'



#	REVISIONS	DATE	APP.

BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NGS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000225.



2305 CHICAGO AVE
RIVERSIDE, CA 92507
P: (951) 680-0440
F: (951) 680-0490

SCALE: AS SHOWN
PLOT DATE: xx-xx-xx
DESIGN BY: O.P.
DRAWN BY: E.P.
CHECKED BY: S.L.

PREPARED UNDER THE DIRECT SUPERVISION OF:
STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

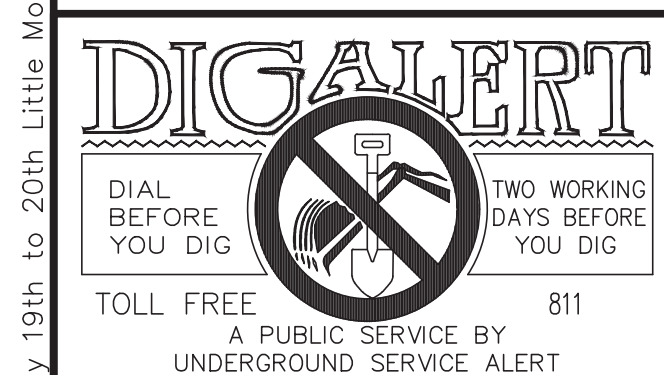
APPROVED BY MISSION SPRINGS WATER DISTRICT:
BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
20TH AVENUE
STA. 15+10.86 TO STA. 25+00.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. C-1
4 OF 12
PRIVATE REFERENCE #
MSWD REFERENCE #
11769

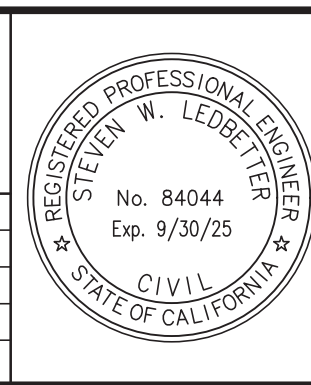
S:\CADD\110-90 Roadway 19th to 20th Little Morongo\Plan Set\110-90_SH05_DWST.dwg



#	REVISIONS	DATE	APP.
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BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NGS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018, AS PREPARED BY AZEOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000225.



PREPARED UNDER THE DIRECT SUPERVISION OF:
STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

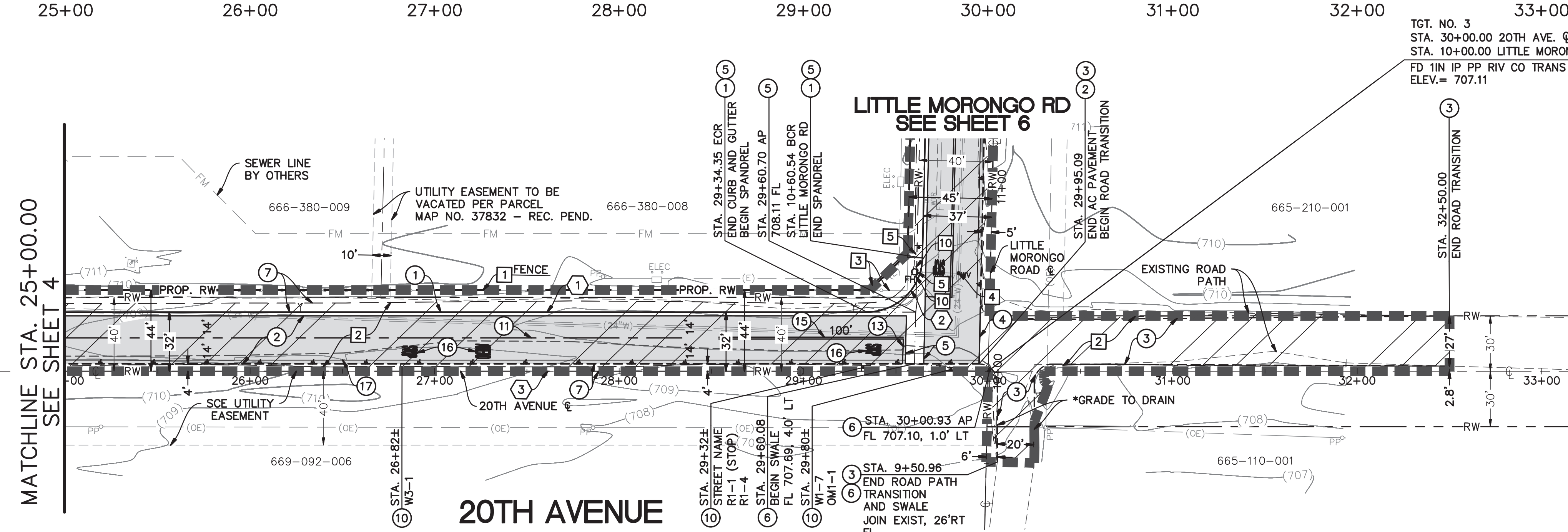
APPROVED BY MISSION SPRINGS WATER DISTRICT:
BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
20TH AVENUE
STA. 25+00.00 TO STA. 32+50.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **C-2**
5 OF **12**
PRIVATE REFERENCE #
MSWD REFERENCE #
11769

TGT. NO. 2
STA. 20+09.89
20TH AVENUE @
FD 1IN IP RIV CO TRANS
ELEV.= 708.67



STREET IMPROVEMENT CONSTRUCTION NOTES:

1. CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
2. CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
3. CONSTRUCT ROAD PATH TRANSITION AS SHOWN ON PLANS.
4. CONSTRUCT CUT OFF WALL, 8" WIDE AND 2' DEEP PER DETAIL "A", ON SHEET 3.
5. CONSTRUCT PCC CROSS GUTTER AND/OR SPANDREL PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 211.
6. CONSTRUCT DRAINAGE SWALE AS SHOWN ON PLANS.
7. CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).

STREET IMPROVEMENT CONSTRUCTION NOTES (CONT.):

10. FURNISH AND INSTALL SIGN AS NOTED AND PER CITY DESERT HOT SPRINGS STANDARD DRAWING NO. 804.
11. APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 2.
13. APPLY THERMOPLASTIC, 12" SOLID WHITE STOP BAR
15. APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.
16. APPLY THERMOPLASTIC, WHITE PAVEMENT LEGEND AS SHOWN PER CA. MUTCD 2014, FIG. 3B-23(CA).
17. APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

DEMOLITION NOTES:

1. PROTECT IN PLACE, AS NOTED.
2. CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
3. REMOVE, SALVAGE AND RELOCATE EXISTING CHAIN-LINK FENCE, INC GATES. AS SHOWN ON PLANS.
4. ADJUST EXISTING WATER VALVE TO GRADE.
5. CONTRACTOR TO REMOVE AND RELOCATE EXISTING FIRE HYDRANT PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.
10. REMOVE EXISTING STEEL POST, INCLUDING FOOTING.

NOTE:

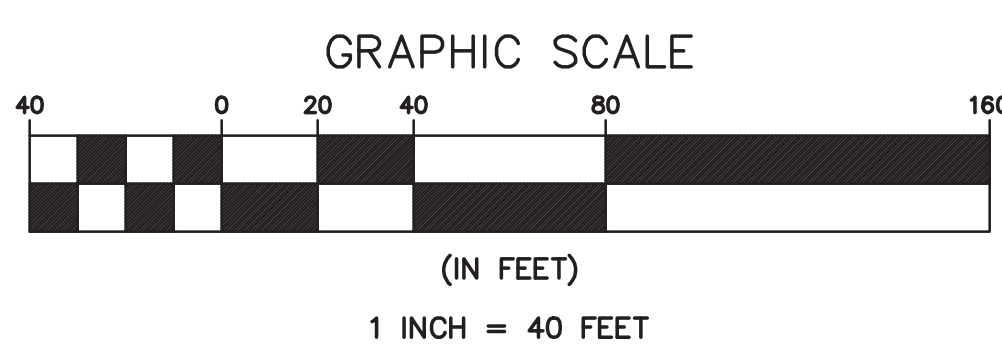
* CONTRACTOR SHALL MAINTAIN CHANNELIZED DRAINAGE COURSE ALONG EXISTING ROAD PATH. (NORTH TO SOUTH DIRECTION).

SURVEY CONTROL TABLE				
TGT. No.	NORTHING	EASTING	BEARING	DISTANCE
2	2272390.07	6476346.87	S88°51'22"W	990.11'
3	2272409.84	6477336.78	S88°51'22"W	990.11'

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S88°51'22"W	—	534.35'	—
2	88°44'09"	30.00'	46.46'	29.35'
3	S88°51'22"W	—	990.11'	—

HATCH LEGEND:

- CLEAR AND GRUB
- PROPOSED AC PAVEMENT



PROFILE SCALE
HORZ: 1" = 40'
VERT: 1" = 4'

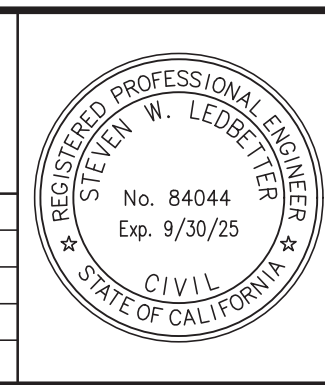
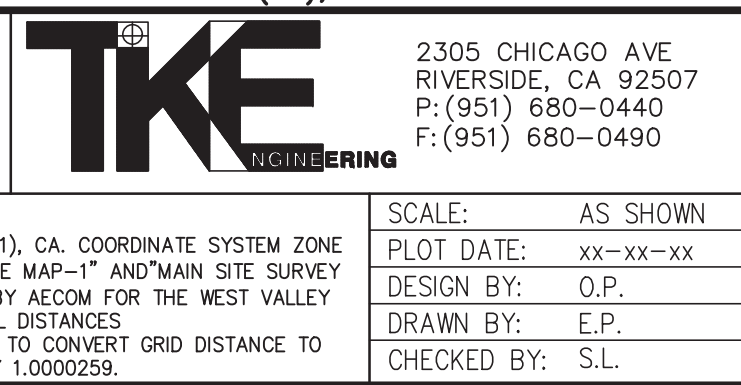
S:\CADD\110-90 Roadway 19th to 20th Little Morongo\Plan Set\110-90_SH06_DWST.dwg



#	REVISIONS	DATE	APP.
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BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NGS PID DKO122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.00000259.



PREPARED UNDER THE DIRECT SUPERVISION OF:
STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

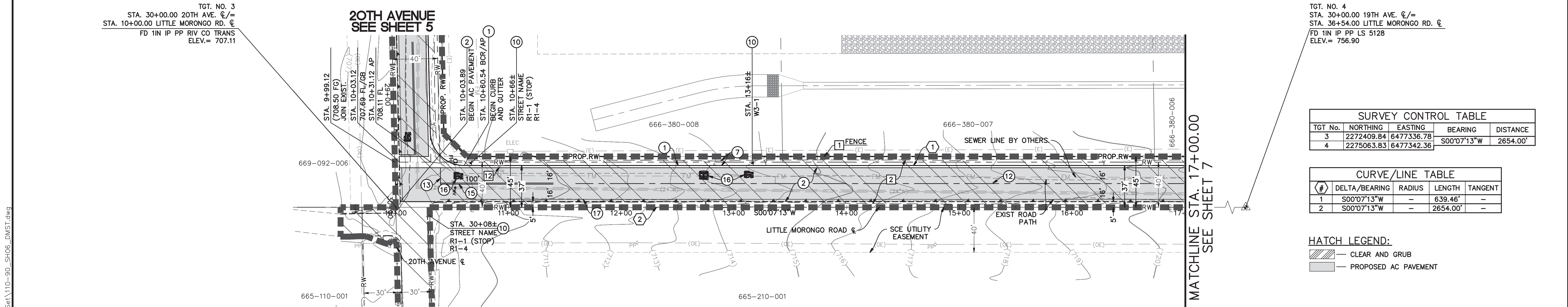
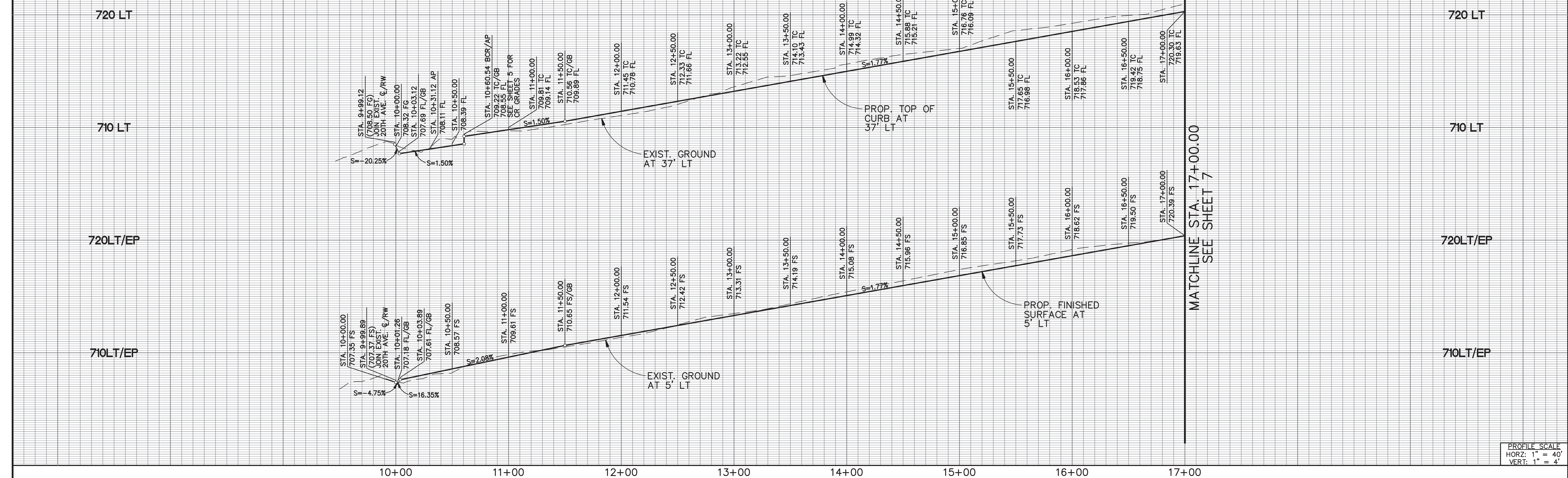
APPROVED BY MISSION SPRINGS WATER DISTRICT:
BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

SCALE: AS SHOWN
PLOT DATE: xx-xx-xx
DESIGN BY: O.P.
DRAWN BY: E.P.
CHECKED BY: S.L.

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
LITTLE MORONGO ROAD
STA. 10+00.00 TO STA. 17+00.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **C-3**
6 OF **12**
PRIVATE REFERENCE #
MSWD REFERENCE #
11769



LITTLE MORONGO ROAD

STREET IMPROVEMENT CONSTRUCTION NOTES:

1. CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
2. CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
7. CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).
10. FURNISH AND INSTALL SIGN AS NOTED AND PER CITY DESERT HOT SPRINGS STANDARD DRAWING NO. 804

STREET IMPROVEMENT CONSTRUCTION NOTES (CONT.):

12. APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 6.
13. APPLY THERMOPLASTIC, 12" SOLID WHITE STOP BAR
15. APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.
16. APPLY THERMOPLASTIC, WHITE PAVEMENT LEGEND AS SHOWN PER CA. MUTCD 2014, FIG. 3B-23(CA).
17. APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

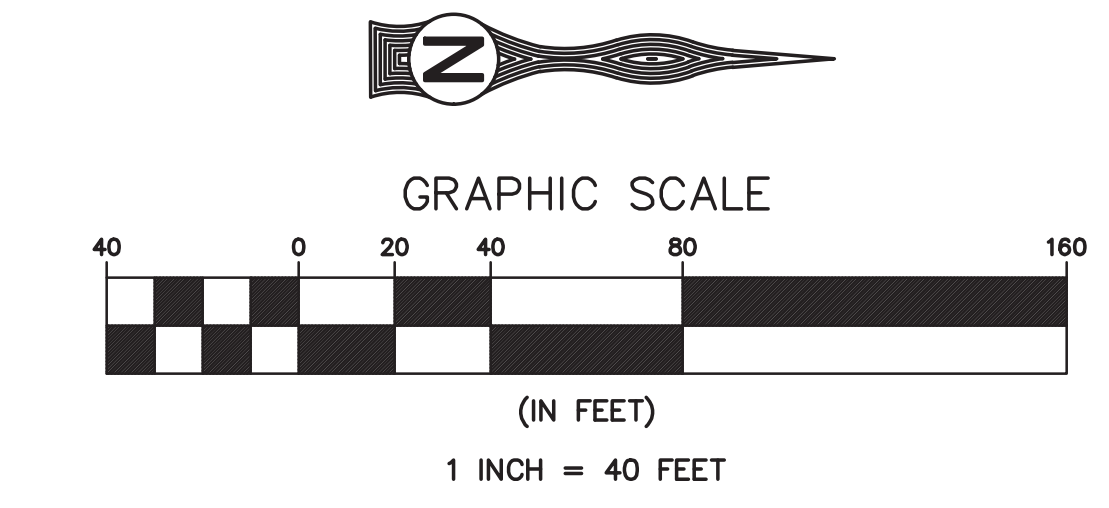
DEMOLITION NOTES:

1. PROTECT IN PLACE, AS NOTED.
2. CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
12. CONTRACTOR TO REMOVE AND RELOCATE EXISTING MONITORING WELL PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.

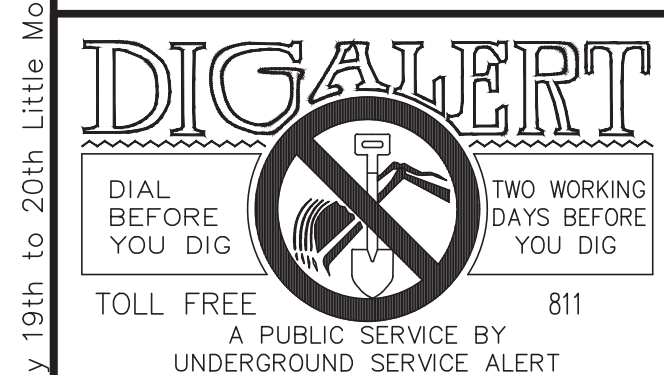
SURVEY CONTROL TABLE				
TGT No.	NORTHING	EASTING	BEARING	DISTANCE
3	2272409.84	6477336.78	S00°07'13"W	2654.00'
4	2275063.83	6477342.36		

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S00°07'13"W	-	639.46'	-
2	S00°07'13"W	-	2654.00'	-

HATCH LEGEND:
CLEAR AND GRUB
PROPOSED AC PAVEMENT



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TGT. NO. 3
STA. 30+00.00 20TH AVE. C/L=
STA. 10+00.00 LITTLE MORONGO RD. C/L
FD 1IN IP PP RIV CO TRANS
ELEV.= 707.11

TGT. NO. 4
STA. 30+00.00 19TH AVE. C/L=
STA. 36+54.00 LITTLE MORONGO RD. C/L
FD 1IN IP PP LS 5128
ELEV.= 756.90

STREET IMPROVEMENT CONSTRUCTION NOTES:

- CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
- CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
- CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).
- CONSTRUCT 8" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 207. MODIFY LAYOUT PER DRIVEWAY DETAIL, AND PER GRADING DETAIL. SEE SHEET 12.
- APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 6.
- APPLY THERMOPLASTIC, 4" SOLID WHITE EDGETLINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

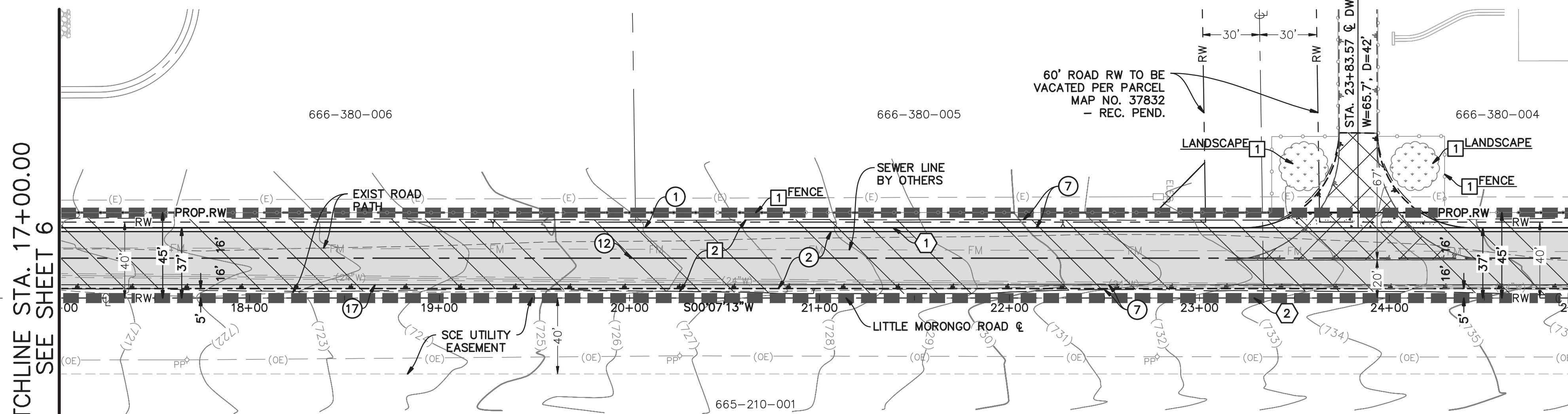
DEMOLITION NOTES:

- PROTECT IN PLACE, AS NOTED.
- CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
- SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND SUBGRADE AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.

MATCHLINE STA. 17+00.00
SEE SHEET 6

MATCHLINE STA. 25+00.00
SEE SHEET 8

LITTLE MORONGO ROAD

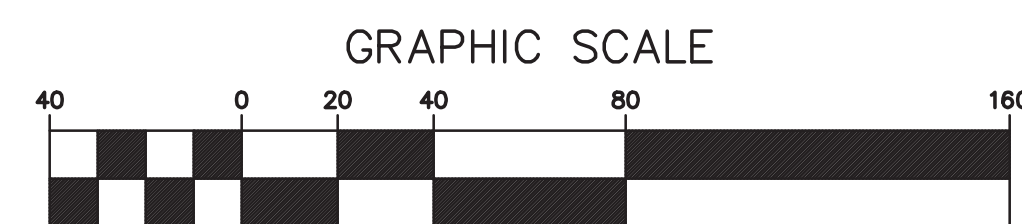


SURVEY CONTROL TABLE				
TGT No.	NORTHING	EASTING	BEARING	DISTANCE
3	2272409.84	6477336.78	S00°07'13"W	2654.00'
4	2275063.83	6477342.36		

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S00°07'13"W	-	800.00'	-
2	S00°07'13"W	-	2654.00'	-

HATCH LEGEND:

- CLEAR AND GRUB
- PROPOSED AC PAVEMENT
- PROPOSED PCC CONCRETE
- AC PAVEMENT REMOVAL



(IN FEET)
1 INCH = 40 FEET

PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

APPROVED BY MISSION SPRINGS WATER DISTRICT:

BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
LITTLE MORONGO ROAD

STA. 17+00.00 TO STA. 25+00.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **C-4**

7 OF **12**

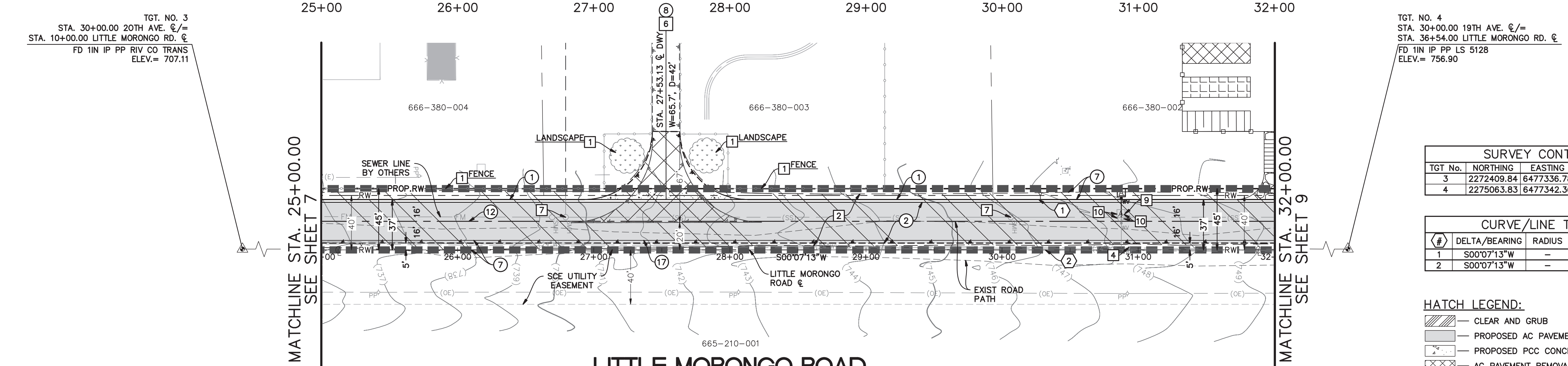
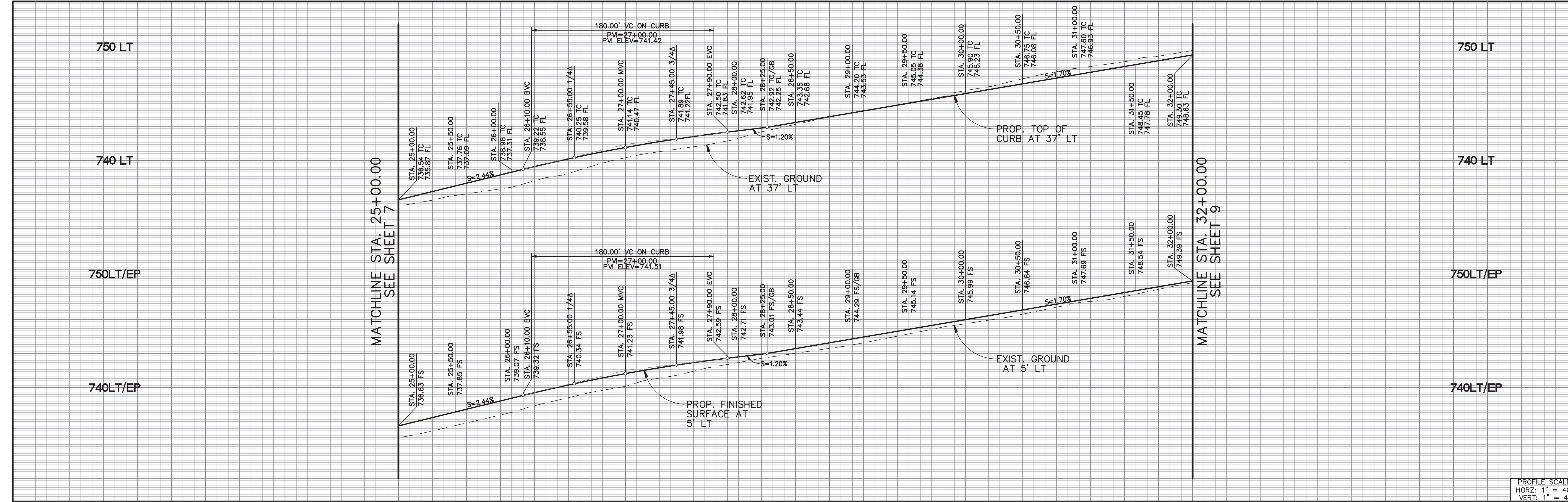
PRIVATE REFERENCE #

MSWD REFERENCE #

11769

PROFILE SCALE
HORZ: 1" = 40'
VERT: 1" = 4'

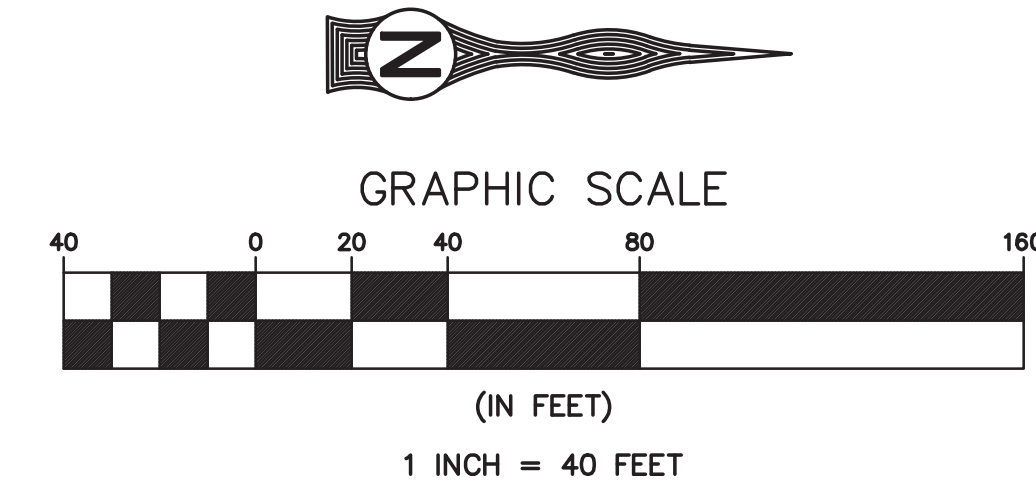
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SURVEY CONTROL TABLE				
TGT No.	NORTHING	EASTING	BEARING	DISTANCE
3	2272409.84	6477336.78	S00°07'13"W	2654.00'
4	2275063.83	6477342.36		

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S00°07'13"W	-	700.00'	-
2	S00°07'13"W	-	2654.00'	-

- HATCH LEGEND:**
- CLEAR AND GRUB
 - PROPOSED AC PAVEMENT
 - PROPOSED PCC CONCRETE
 - AC PAVEMENT REMOVAL



- STREET IMPROVEMENT CONSTRUCTION NOTES:**
- CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. DRAWING 200.
 - CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
 - CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).
 - CONSTRUCT 8" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 207. MODIFY LAYOUT PER DRIVEWAY DETAIL, AND PER GRADING DETAIL. SEE SHEET 12.
 - APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 6.
 - APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

- DEMOLITION NOTES:**
- PROTECT IN PLACE, AS NOTED.
 - CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
 - ADJUST EXISTING WATER VALVE TO GRADE.
 - SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT AND SUBGRADE AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.
 - ADJUST EXISTING SEWER MANHOLE TO GRADE.
 - CONTRACTOR TO REMOVE AND RELOCATE EXISTING AIR VALVE PER M.S.W.D. STANDARDS. ADJUSTMENTS SHALL BE COORDINATED WITH M.S.W.D.
 - REMOVE EXISTING STEEL POST, INCLUDING FOOTING.

DIAL BEFORE YOU DIG
TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 811
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

Mission Springs Water District

#	REVISIONS	DATE	APP.
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2305 CHICAGO AVE
RIVERSIDE, CA 92507
P: (951) 680-0440
F: (951) 680-0490

BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NGS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018. AS PREPARED BY AEGM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000225.

STEVEN W. LEDBETTER
No. 84044
Exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

SCALE: AS SHOWN
PLOT DATE: xx-xx-xx
DESIGN BY: O.P.
DRAWN BY: E.P.
CHECKED BY: S.L.

PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

APPROVED BY MISSION SPRINGS WATER DISTRICT:

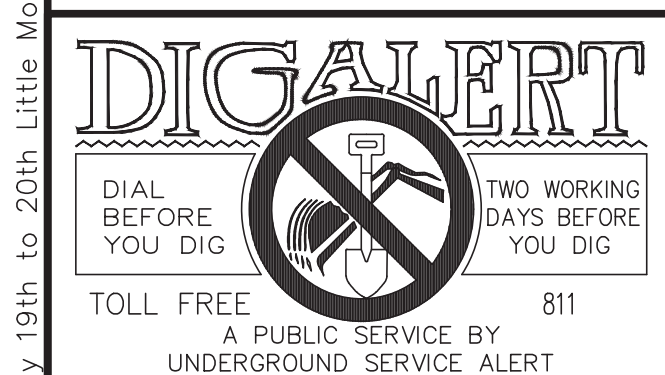
BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
LITTLE MORONGO ROAD
STA. 25+00.00 TO STA. 32+00.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

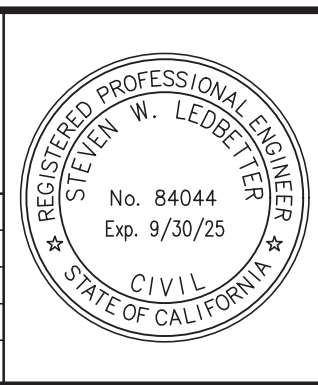
DWG. **C-5**
8 OF 12
PRIVATE REFERENCE #
MSWD REFERENCE #
11769

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#	REVISIONS	DATE	APP.
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BENCHMARK: ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS NOS PID DKO122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.	TKE ENGINEERING 2305 CHICAGO AVE RIVERSIDE, CA 92507 P: (951) 680-0440 F: (951) 680-0490
BASIS OF BEARING: HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018. AS PREPARED BY AEGM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000225.	SCALE: AS SHOWN PLOT DATE: xx-xx-xx DESIGN BY: O.P. DRAWN BY: E.P. CHECKED BY: S.L.

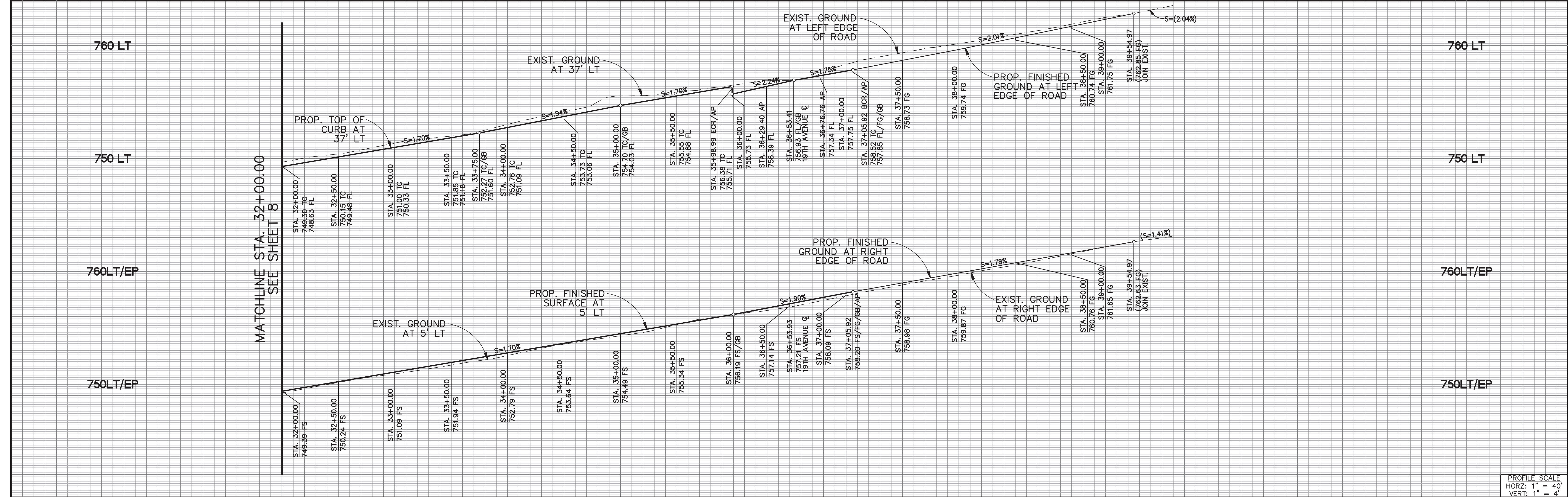


PREPARED UNDER THE DIRECT SUPERVISION OF:	APPROVED BY MISSION SPRINGS WATER DISTRICT:
STEVEN W. LEDBETTER R.C.E. #84044 EXP. 9-30-25	BRIAN MACY, P.E. GENERAL MANAGER / CHIEF ENGINEER

DATE	DATE

MISSION SPRINGS WATER DISTRICT STREET IMPROVEMENT PLAN LITTLE MORONGO ROAD, 19TH AVENUE AND 20TH AVENUE LITTLE MORONGO ROAD STA. 32+00.00 TO STA. 39+54.97 SECTION 14 TOWNSHIP 3 S RANGE 4 E
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DWG. C-6 9 OF 12 PRIVATE REFERENCE # MSWD REFERENCE # 11769

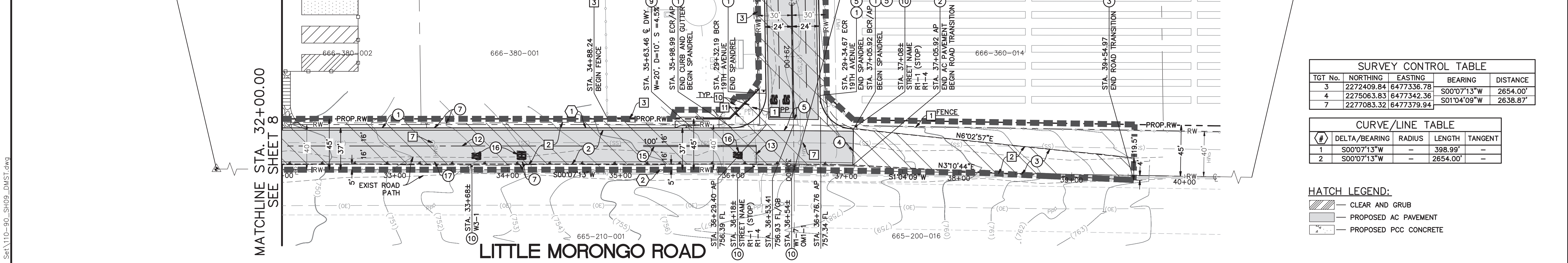


760 LT 750 LT 760LT/EP 750LT/EP 760 LT 750 LT 760LT/EP 750LT/EP

TGT. NO. 3
STA. 30+00.00 20TH AVE. @/= STA. 10+00.00 LITTLE MORONGO RD. @
FD 1IN IP PP RIV CO TRANS
ELEV. = 707.11

TGT. NO. 4
STA. 30+00.00 19TH AVE. @/= STA. 36+54.00 LITTLE MORONGO RD. @
FD 1IN IP PP LS 5128
ELEV. = 756.90

TGT. NO. 7
STA. 62+92.87 @ LITTLE MORONGO ROAD/= STA. 30+00.00 @ 18TH AVENUE
FD NOTHING
N: 2277083.32
E: 6477379.94



STREET IMPROVEMENT CONSTRUCTION NOTES: STREET IMPROVEMENT CONSTRUCTION NOTES (CONT.):

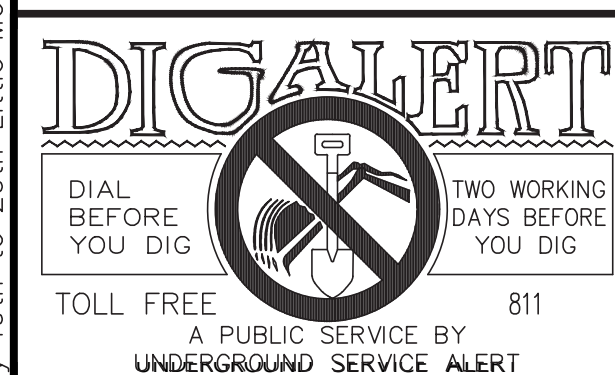
- CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
- CONSTRUCT 4.5" AGGREGATE COURSE PAVEMENT, 8.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
- CONSTRUCT ROAD PATH TRANSITION AS SHOWN ON PLANS.
- CONSTRUCT CUT OFF WALL, 8" WIDE AND 2' DEEP PER DETAIL "A", ON SHEET 3.
- CONSTRUCT PCC CROSS GUTTER AND/OR SPANDREL PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 211.
- CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).
- CONSTRUCT 6" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 208.
- FURNISH AND INSTALL SIGN AS NOTED AND PER CITY DESERT HOT SPRINGS STANDARD DRAWING NO. 804.
- APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 6.
- APPLY THERMOPLASTIC, 12" SOLID WHITE STOP BAR
- APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.
- APPLY THERMOPLASTIC, WHITE PAVEMENT LEGEND AS SHOWN PER CA. MUTCD 2014, FIG. 3B-23(CA).
- APPLY THERMOPLASTIC, 4" SOLID WHITE EDGELINE STRIPE PER CA. MUTCD 2014, FIG. 3A-106(CA), DETAIL 27B.

DEMOLITION NOTES:

- PROTECT IN PLACE, AS NOTED.
- CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
- REMOVE, SALVAGE AND RELOCATE EXISTING CHAIN-LINK FENCE, INC GATES. AS SHOWN ON PLANS.
- ADJUST EXISTING SEWER MANHOLE TO GRADE.
- REMOVE EXISTING STEEL POST, INCLUDING FOOTING.
- REMOVE EXISTING ABANDONED ELECTRIC VAULT AND HANDHOLE. CONTRACTOR COORDINATE REMOVAL WITH M.S.W.D.

GRAPHIC SCALE
(IN FEET)
1 INCH = 40 FEET

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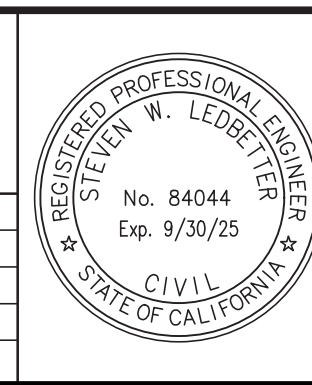
BENCHMARK:
ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1989 (NAVD88), GEOID 12B. BENCHMARK IS NOS PD DWD122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.

BASIS OF BEARING:
HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MRP-1" AND "MAIN SITE SURVEY BASE MRP-2" DATED SEPTEMBER 2018, AS PREPARED BY AGCOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000258.

TKE
ENGINEERING

2308 CHICAGO AVE
RIVERSIDE, CA 92507
P: (951) 680-0440
F: (951) 680-0490

SCALE: AS SHOWN
PLOT DATE: xx-xx-xx
DESIGN BY: O.P.
DRAWN BY: E.P.
CHECKED BY: S.L.



PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

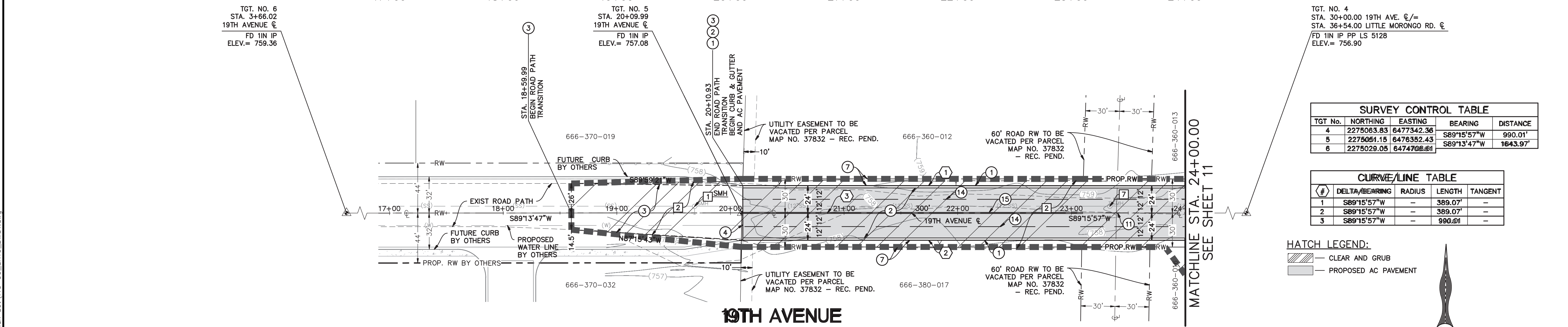
APPROVED BY MISSION SPRINGS WATER DISTRICT:

BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
19TH AVENUE
STA. 18+55.93 TO STA. 24+00.00
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **C-7**
10 OF 12
PRIVATE REFERENCE #
MSWD REFERENCE #
11769



STREET IMPROVEMENT CONSTRUCTION NOTES:

1. CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
2. CONSTRUCT 4" AGGREGATE COURSE PAVEMENT, 6.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
3. CONSTRUCT ROAD PATH TRANSITION AS SHOWN ON PLANS.
4. CONSTRUCT CUT OFF WALL, 8" WIDE AND 2' DEEP PER DETAIL "A", ON SHEET 3.
7. CONSTRUCT REGRADE TO DAYLIGHT 2:1 SLOPE (MAX).

STREET IMPROVEMENT CONSTRUCTION NOTES CONT.:

11. APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 3A-1001(CA), DETAIL 2.
14. APPLY THERMOPLASTIC, 4" WHITE LANE STRIPE PER CA. MUTCD 2014, FIG. 3A-102(CA), DETAIL 9.
15. APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.

DEMOLITION NOTES:

1. PROTECT IN PLACE, AS NOTED.
2. CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
7. ADJUST EXISTING SEWER MANHOLE TO GRADE.

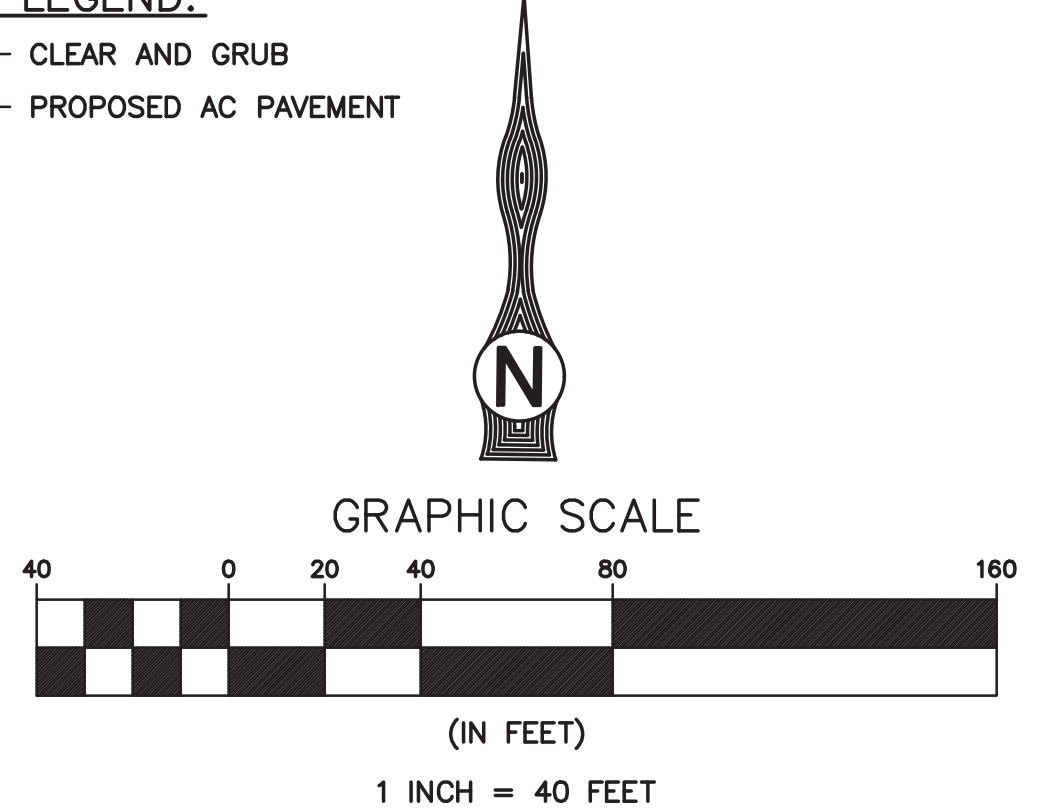
SURVEY CONTROL TABLE				
TGT. No.	NORTHING	EASTING	BEARING	DISTANCE
4	2275063.83	6477342.36		
5	2275061.15	6476352.43	S89°15'57"W	990.01'
6	2275029.05	6474708.61	S89°13'47"W	1643.97'

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S89°15'57"W	-	389.07'	-
2	S89°15'57"W	-	389.07'	-
3	S89°15'57"W	-	990.01'	-

HATCH LEGEND:

CLEAR AND GRUB

PROPOSED AC PAVEMENT

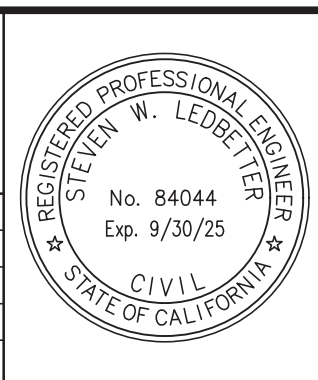


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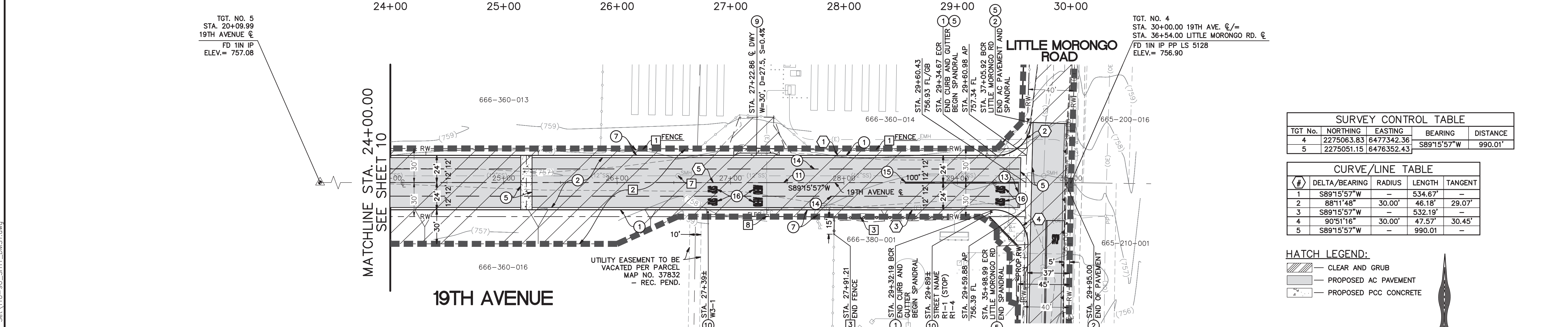
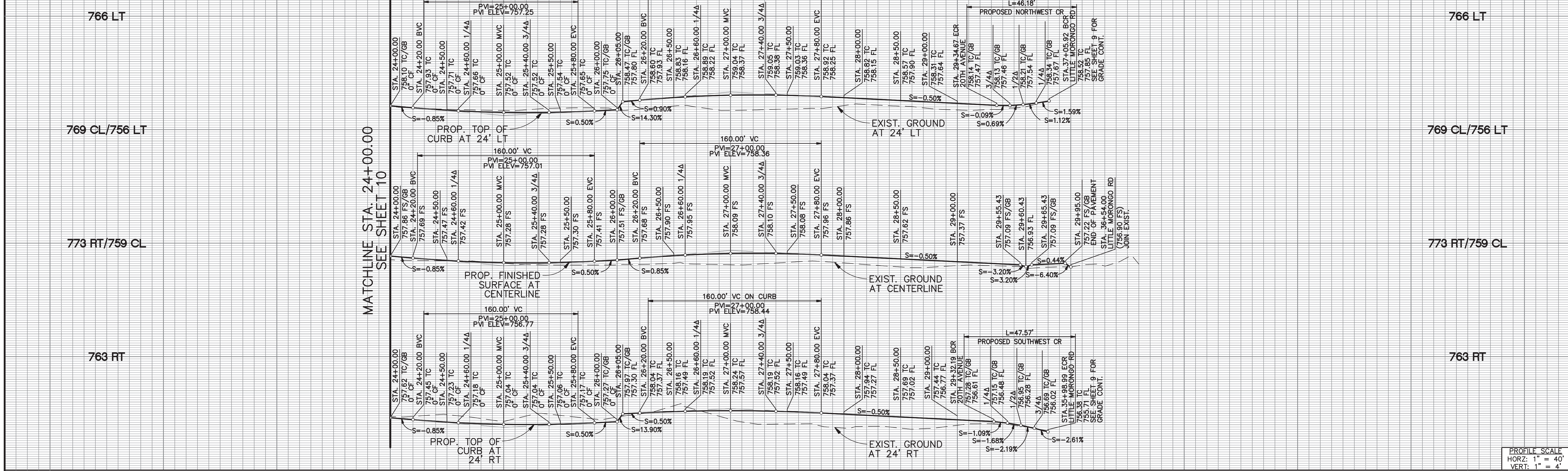
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BENCHMARK: ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID 12B. BENCHMARK IS WIS PID DX0122, DESIGNATION "60358", HAVING AN ELEV. OF 913.02 FT.	TKE ENGINEERING	2305 CHICAGO AVE RIVERSIDE, CA 92507 P: (951) 680-0440 F: (951) 680-0490
BASIS OF BEARING: HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEST VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000225.	SCALE: AS SHOWN PLOT DATE: xx-xx-xx DESIGN BY: O.P. DRAWN BY: E.P. CHECKED BY: S.L.	



PREPARED UNDER THE DIRECT SUPERVISION OF:	APPROVED BY MISSION SPRINGS WATER DISTRICT:
STEVEN W. LEDBETTER R.C.E. #84044 EXP. 9-30-25	BRIAN MACY, P.E. GENERAL MANAGER / CHIEF ENGINEER

MISSION SPRINGS WATER DISTRICT STREET IMPROVEMENT PLAN LITTLE MORONGO ROAD, 19TH AVENUE AND 20TH AVENUE 19TH AVENUE STA. 24+00.00 TO STA. 30+00.00 SECTION 14 TOWNSHIP 3 S RANGE 4 E	DWG. C-8 11 OF 12 PRIVATE REFERENCE # MSWD REFERENCE # 11769
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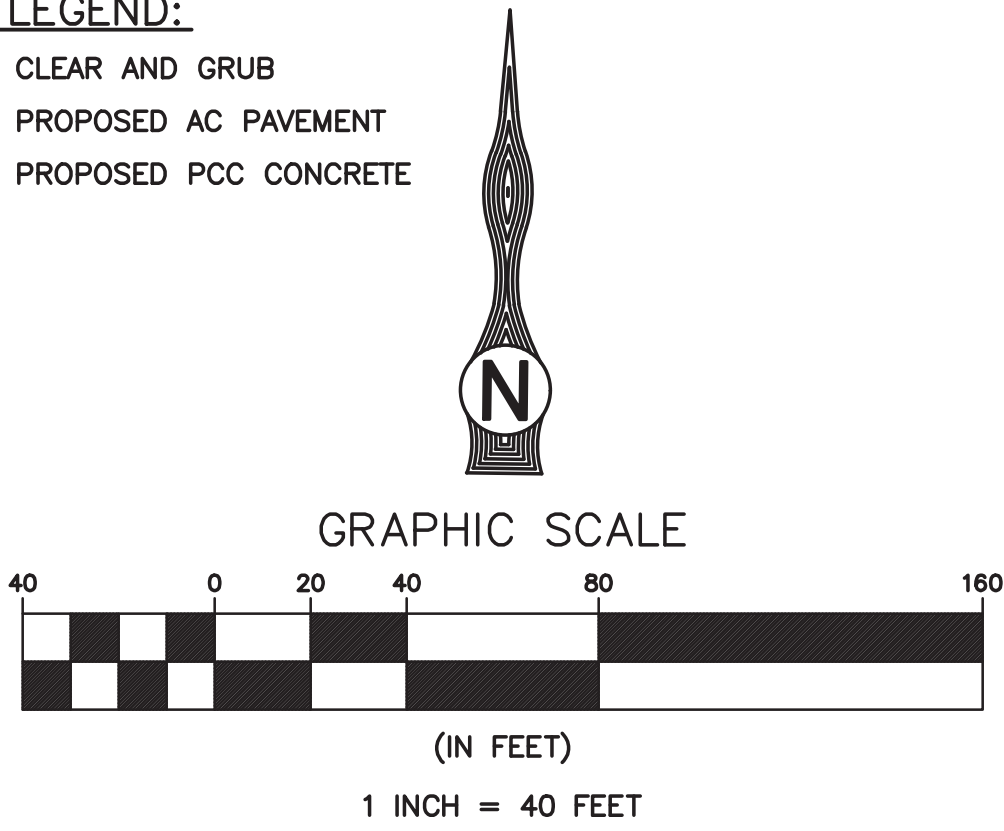
TGT. NO. 5
STA. 20+09.99
19TH AVENUE @
FD 1IN IP
ELEV.= 757.08

TGT. NO. 4
STA. 30+00.00 19TH AVE. @/=
STA. 36+54.00 LITTLE MORONGO RD. @
FD 1IN IP PP LS 5128
ELEV.= 756.90

SURVEY CONTROL TABLE				
TGT. No.	NORTHING	EASTING	BEARING	DISTANCE
4	2275063.83	6477342.36	S89°15'57"W	990.01'
5	2275051.15	6476352.43		

CURVE/LINE TABLE				
#	DELTA/BEARING	RADIUS	LENGTH	TANGENT
1	S89°15'57"W	—	534.67'	—
2	88°11'48"	30.00'	46.18'	29.07'
3	S89°15'57"W	—	532.19'	—
4	90°51'16"	30.00'	47.57'	30.45'
5	S89°15'57"W	—	990.01'	—

HATCH LEGEND:	
	CLEAR AND GRUB
	PROPOSED AC PAVEMENT
	PROPOSED PCC CONCRETE



- STREET IMPROVEMENT CONSTRUCTION NOTES:**

 - CONSTRUCT 8" PCC CURB AND GUTTER PER CITY OF DESERT HOT SPRINGS STD. NO. DRAWING 200.
 - CONSTRUCT 4" AGGREGATE COURSE PAVEMENT, 6.0" CLASS II AGGREGATE BASE OVER 12" COMPACTED NATIVE SOIL TO 95% RELATIVE COMPACTION.
 - CONSTRUCT PCC CROSS GUTTER AND/OR SPANDREL PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 211.
 - CONSTRUCT 6" PCC COMMERCIAL DRIVEWAY PER CITY OF DESERT HOT SPRINGS STD. DRAWING NO. 208.
 - FURNISH AND INSTALL SIGN AS NOTED AND PER CITY DESERT HOT SPRINGS STANDARD DRAWING NO. 804
- STREET IMPROVEMENT CONSTRUCTION NOTES:**

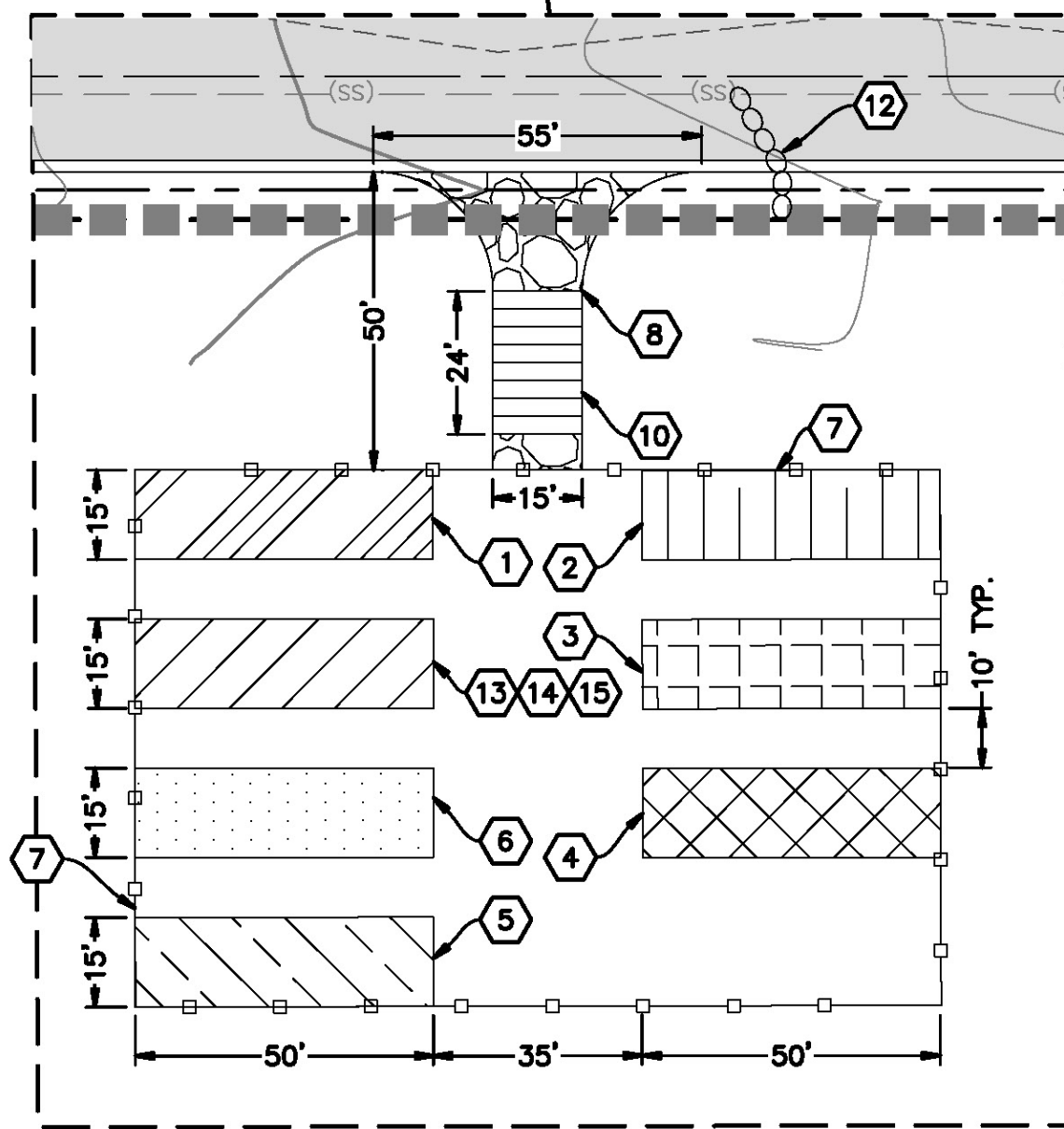
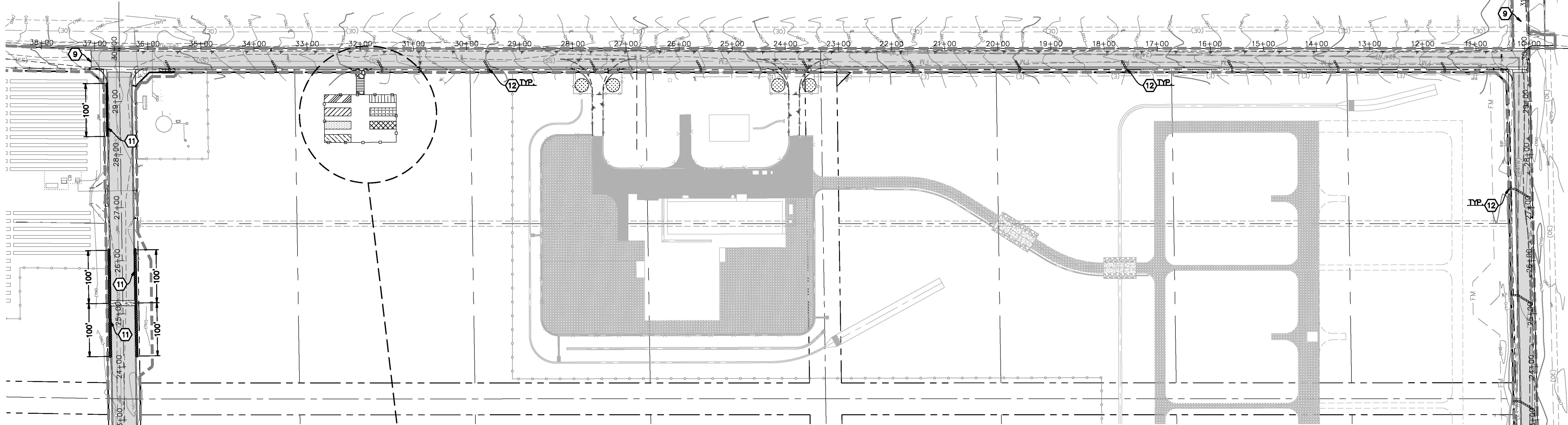
 - APPLY THERMOPLASTIC, YELLOW CENTERLINE PER CA. MUTCD 2014, FIG. 34-101(CA), DETAIL 2.
 - APPLY THERMOPLASTIC, 12" SOLID WHITE STOP BAR
 - APPLY THERMOPLASTIC, 4" WHITE LANE STRIPE PER CA. MUTCD 2014, FIG. 3A-102(CA), DETAIL 9.
 - APPLY THERMOPLASTIC, DOUBLE YELLOW STRIPE PER CA. MUTCD 2014, FIG. 3A-104(CA), DETAIL 22.
 - APPLY THERMOPLASTIC, WHITE PAVEMENT LEGEND AS SHOWN PER CA. MUTCD 2014, FIG. 3B-23(CA).

- DEMOLITION NOTES:**
- PROTECT IN PLACE, AS NOTED.
 - CLEAR, GRUB AND MASS GRADING AREA AS NOTED ON PLANS.
 - REMOVE, SALVAGE AND RELOCATE EXISTING CHAIN-LINK FENCE, INC GATES. AS SHOWN ON PLANS.
 - ADJUST EXISTING SEWER MANHOLE TO GRADE.
 - REMOVE EXISTING ELECTRIC BOX AND RELOCATE BEHIND CURB AS SHOWN ON PLANS.



#	REVISIONS	DATE	APP.	BENCHMARK: ELEV. ARE BASED ON THE N. AMERICAN VERTICAL DATUM OF 1988 (NAV88), GEOID 12B. BENCHMARK IS NOS PID DX0122, DESIGNATION "60358". HAVING AN ELEV. OF 913.02 FT.	 2305 CHICAGO AVE RIVERSIDE, CA 92507 P: (951) 680-0440 F: (951) 680-0490		PREPARED UNDER THE DIRECT SUPERVISION OF: _____ DATE _____ STEVEN W. LEDBETTER R.C.E. #84044 EXP. 9-30-25	APPROVED BY MISSION SPRINGS WATER DISTRICT: _____ DATE _____ BRIAN MACY, P.E. GENERAL MANAGER / CHIEF ENGINEER	MISSION SPRINGS WATER DISTRICT STREET IMPROVEMENT PLAN LITTLE MORONGO ROAD, 19TH AVENUE AND 20TH AVENUE DRIVEWAY AND GRADING DETAILS SECTION 14 TOWNSHIP 3 S RANGE 4 E	DWG. <u>DE-1</u> 12 OF 12 PRIVATE REFERENCE # _____ MSWD REFERENCE # _____
				BASIS OF BEARING: HORIZ DATUM IS THE N. AMERICAN DATUM OF 1983 (2011), CA. COORDINATE SYSTEM ZONE 6, PER THE DRAWINGS ENTITLED "MAIN SITE SURVEY BASE MAP-1" AND "MAIN SITE SURVEY BASE MAP-2" DATED SEPTEMBER 2018, AS PREPARED BY AECOM FOR THE WEY VALLEY WATER RECLAIMED FACILITY PROJECT FOR THE MSWD. ALL DISTANCES ARE BASED ON SURVEY FEET AND ARE GRID DISTANCES. TO CONVERT GRID DISTANCE TO GROUND LEVEL DISTANCES, MULTIPLY GRID DISTANCES BY 1.0000259.	SCALE: AS SHOWN PLOT DATE: xx--xx--xx DESIGN BY: O.P. DRAWN BY: E.P. CHECKED BY: S.L.					

S:\CADD\110-90 Roadway 19th to 20th Little Morongo\Plan Set\110-90_SH12_ECP.dwg



N.T.S.

RELEVANT BMP FACT SHEETS

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BMP HANDBOOK DATED NOVEMBER 2023, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED AS NEEDED:

CASQA ID	BMP DESCRIPTION
EC-1	SCHEDULING
EC-5	SOIL BINDERS
SE-5	FIBER ROLLS
SE-6	GRAVEL BAG BERM
SE-7	STREET SWEEPING AND VACUUMING
WE-1	WIND EROSION CONTROL
TC-1	STABILIZED CONSTRUCTION ENTRANCE
TC-2	STABILIZED CONSTRUCTION ROADWAY
TC-3	ENTRANCE/OUTLET TIRE WASH
NS-1	WATER CONSERVATION PRACTICES
NS-3	PAVING AND GRADING OPERATIONS
NS-6	ILLICIT CONNECTION DISCHARGE
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-12	CONCRETE CURING
NS-13	CONCRETE FINISHING
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-7	CONTAMINATED SOIL MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT

LEGEND

■■■■■	— LIMITS OF WORK
----	— PROPERTY LINE
----	— RIGHT-OF-WAY
----	— CENTERLINE
▨	— MATERIAL DELIVERY AND STORAGE AREA
▩	— STOCKPILE MANAGEMENT AREA
▧	— TRASH STORAGE AREA
▦	— HAZARDOUS WASTE MANAGEMENT AREA
▥	— CONCRETE WASTE MANAGEMENT AREA
▤	— SANITARY AREA
▣	— CONSTRUCTION ENTRANCE
▢	— VEHICLE AND EQUIPMENT CLEANING, FUELING AND MAINTENANCE AREA

SEQUENCE OF CONSTRUCTION

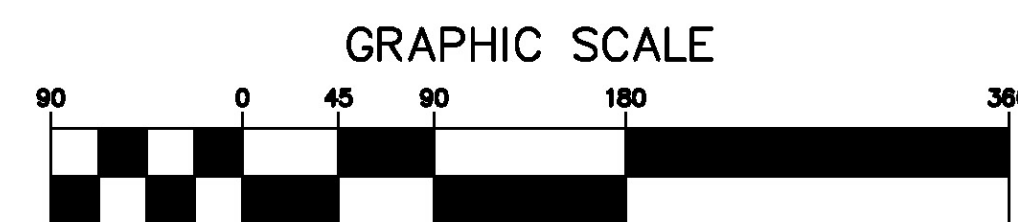
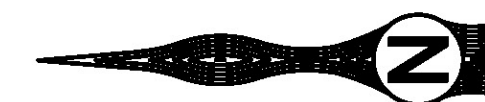
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

- PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND CHAIN LINK FENCE WITH GREEN SCREEN AS SHOWN ON PLAN.
 2. INSTALL FIBER ROLLS AS SHOWN ON PLANS.
 3. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

- PHASE 2:
4. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
 5. START CONSTRUCTION

STREET IMPROVEMENT CONSTRUCTION NOTES:

- 1 WM-1, MATERIAL DELIVERY AND STORAGE.
- 2 WM-3, STOCKPILE MANAGEMENT, CONTRACTOR TO SET UP STOCKPILE AREA.
- 3 WM-5, TRASH STORAGE AREA. EXACT LOCATION TO BE VERIFIED BY CONTRACTOR.
- 4 WM-6, HAZARDOUS WASTE MANAGEMENT.
- 5 WM-8, CONCRETE WASTE MANAGEMENT PER DETAIL 4, SEE SHEET E-2. EXACT LOCATION TO BE VERIFIED BY CONTRACTOR.
- 6 WM-9, SANITARY AREA.
- 7 CONSTRUCT CHAINLINK FENCE WITH GREEN SCREEN.
- 8 TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 2, SEE SHEET E-2.
- 9 TC-2, STABILIZED CONSTRUCTION ROADWAY.
- 10 TC-3, ENTRANCE/OUTLET TIRE WASH PER DETAIL 3, SEE SHEET E-2.
- 11 SE-5, FIBER ROLLS PER DETAIL 5, SEE SHEET E-2. CONTRACTOR TO MAINTAIN DURING ALL GRADING & MOBILIZATION ACTIVITY.
- 12 INSTALL GRAVEL BAGS PER CASQA SE-6 AND DETAIL 1 AND 1-2, SEE SHEET E-2.
- 13 NS-8, VEHICLE AND EQUIPMENT CLEANING, EXACT LOCATION TO BE VERIFIED BY CONTRACTOR.
- 14 NS-9, VEHICLE AND EQUIPMENT FUELING, EXACT LOCATION TO BE VERIFIED BY CONTRACTOR.
- 15 NS-10, VEHICLE AND EQUIPMENT MAINTENANCE, EXACT LOCATION TO BE VERIFIED BY CONTRACTOR.



(IN FEET)

1 INCH = 90 FEET



#	REVISIONS	DATE	APP.
1			
2			
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4			
5			

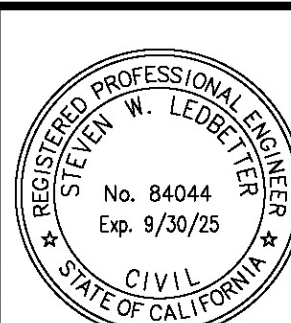
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2305 CHICAGO AVE
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F: (951) 680-0490

SCALE: AS SHOWN
PLOT DATE: XX-XX-XX
DESIGN BY: O.P.
DRAWN BY: E.P.
CHECKED BY: S.L.



PREPARED UNDER THE DIRECT SUPERVISION OF:

STEVEN W. LEDBETTER
R.C.E. #84044 EXP. 9-30-25

DATE

APPROVED BY MISSION SPRINGS WATER DISTRICT:

BRIAN MACY, P.E.
GENERAL MANAGER / CHIEF ENGINEER

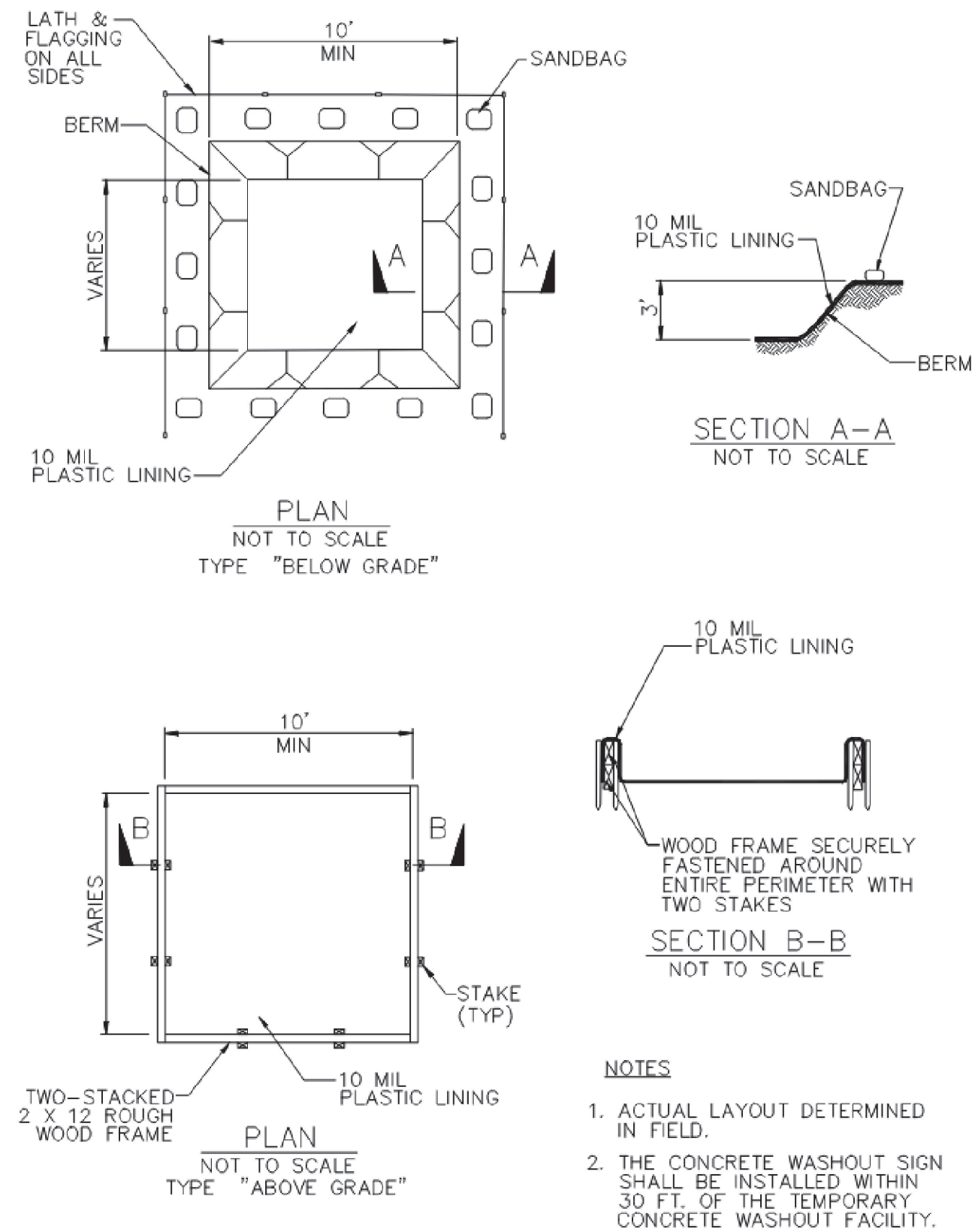
DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
AND 20TH AVENUE
EROSION CONTROL PLAN
SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. **EC-1**
1 OF 2
PRIVATE REFERENCE #
MSWD REFERENCE #
11769

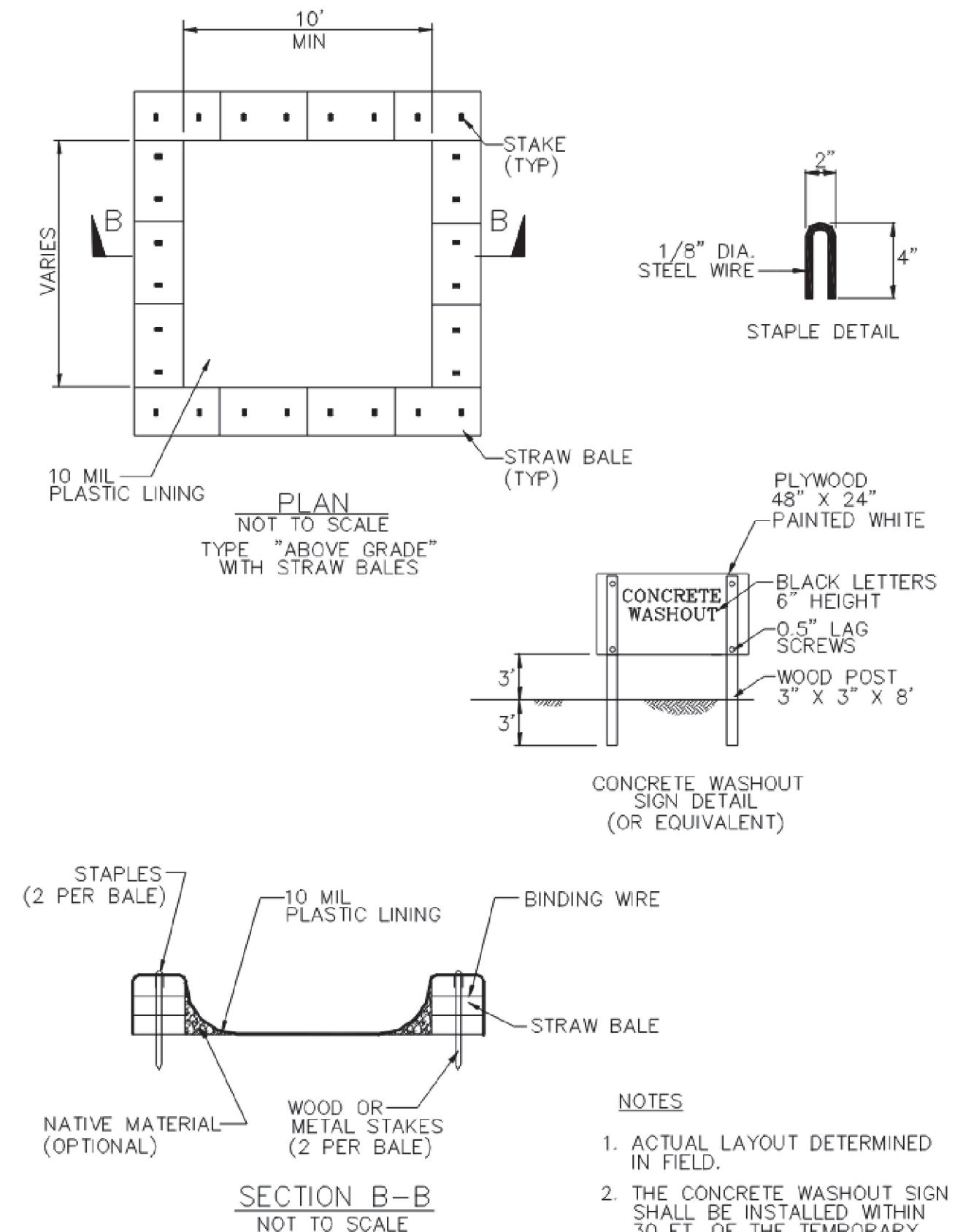
Concrete Waste Management

WM-8



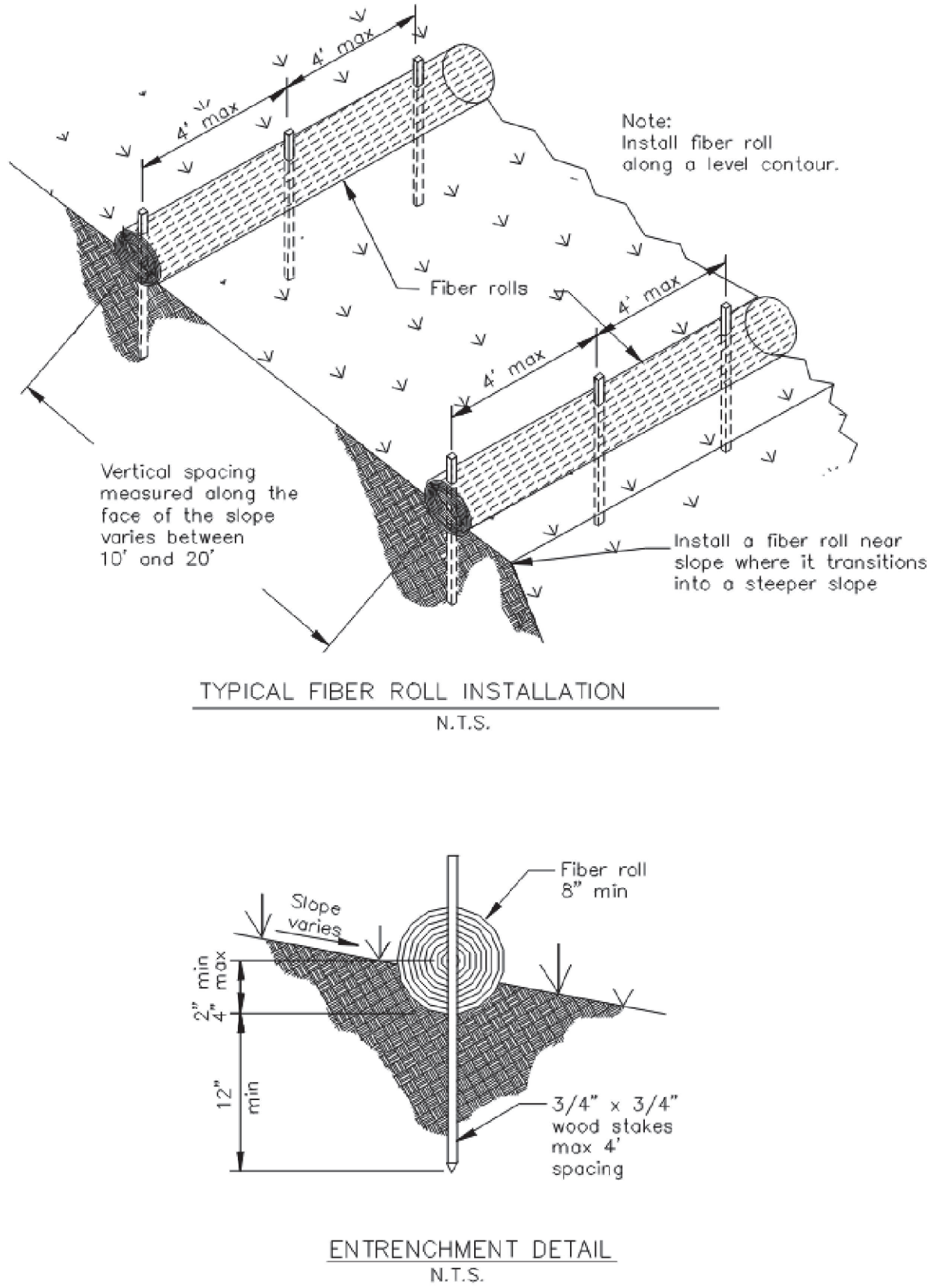
Concrete Waste Management

WM-8



Fiber Rolls

SE-5

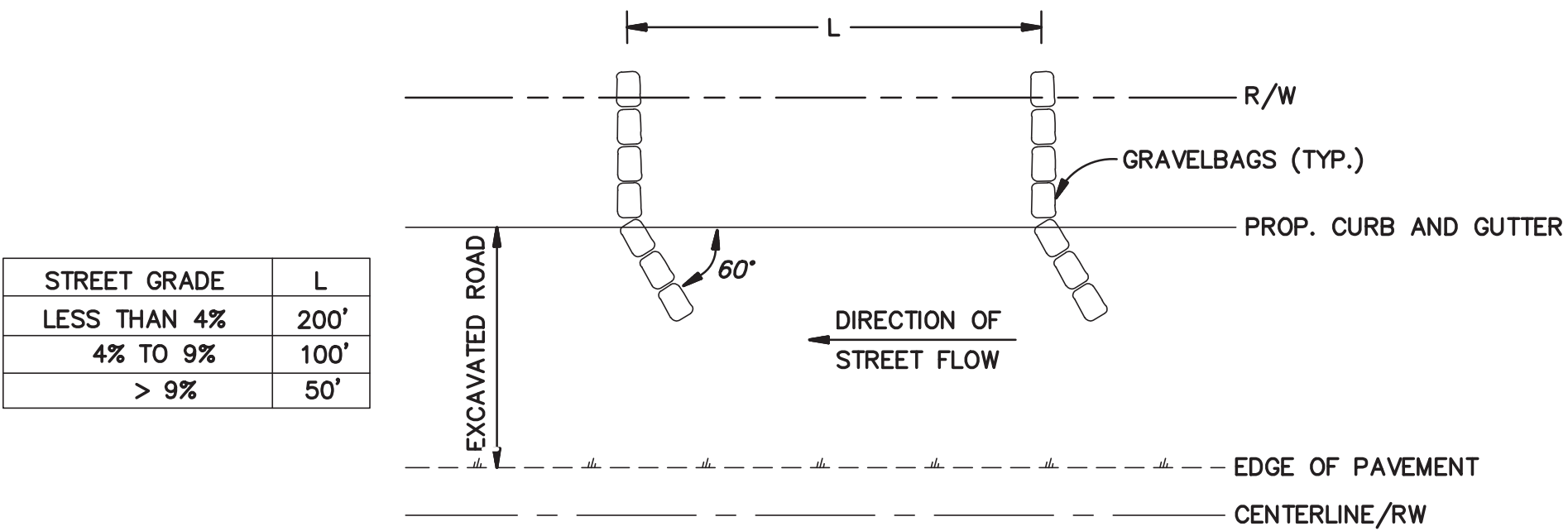


CONCRETE WASTE MANAGEMENT (WM-8) - DETAIL 4

SCALE: N.T.S.

FIBER ROLLS (SE-5) - DETAIL 5

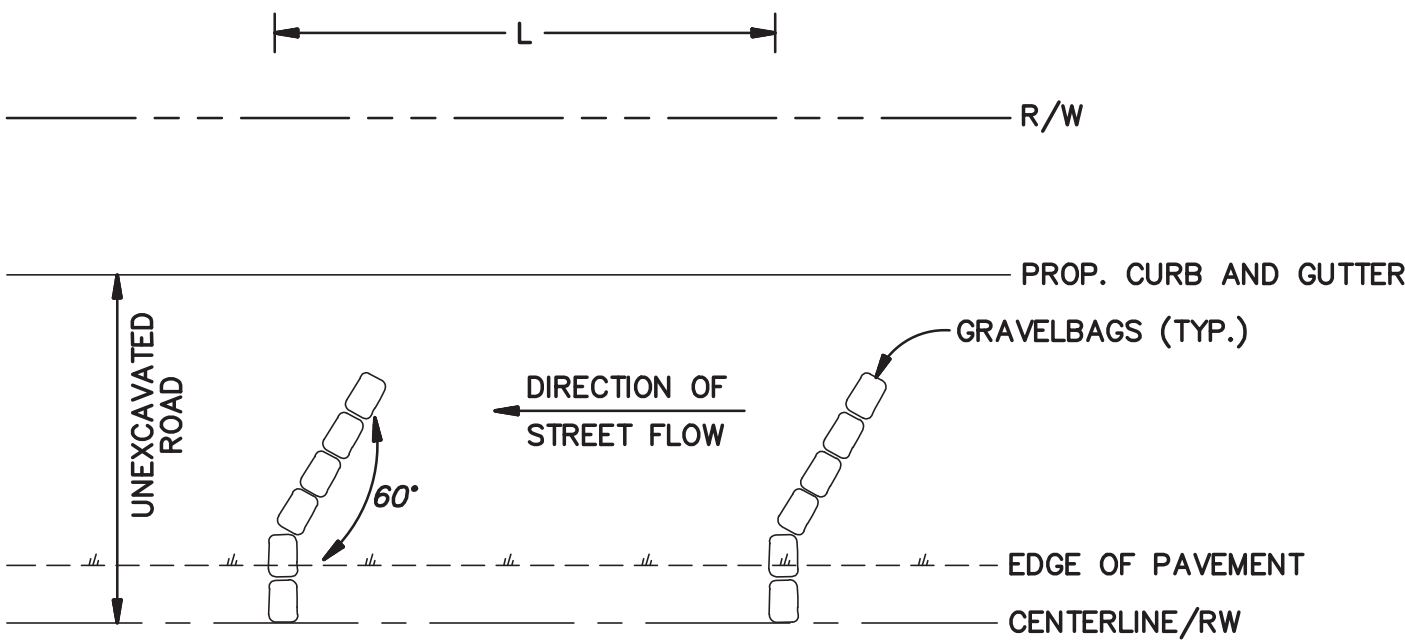
SCALE: N.T.S.



GRAVEL BAG PLACEMENT FOR GRADED STREET - DETAIL 1

SCALE: N.T.S.

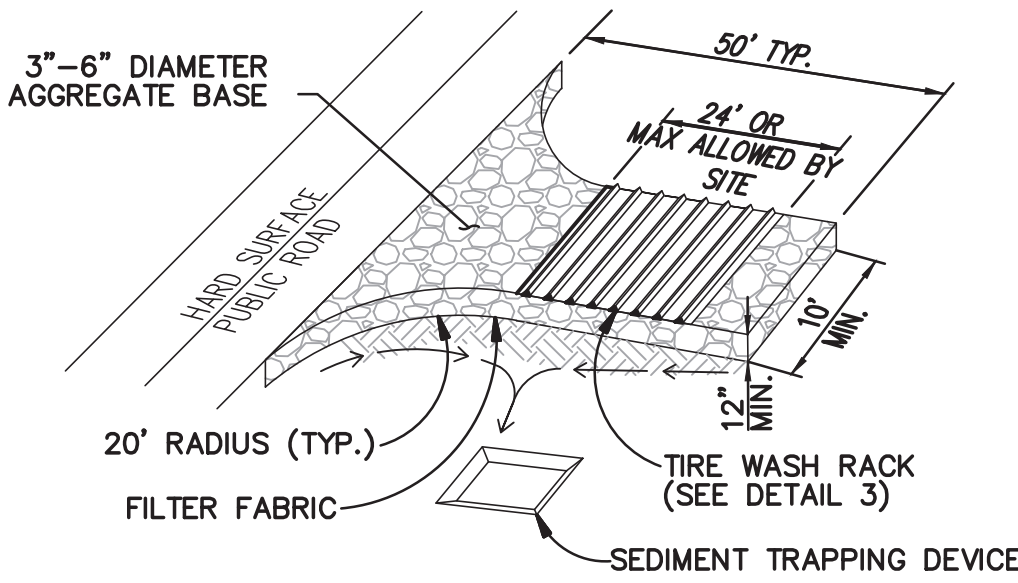
NOTE: FOR MORE INFORMATION ON SAN BAG MATERIAL, BAG SIZE AND FILL MATERIAL SEE CASQA BMP SE-6



GRAVEL BAG PLACEMENT FOR UN-GRADED STREET - DETAIL 1-2

SCALE: N.T.S.

NOTE: FOR MORE INFORMATION ON SAN BAG MATERIAL, BAG SIZE AND FILL MATERIAL SEE CASQA BMP SE-6

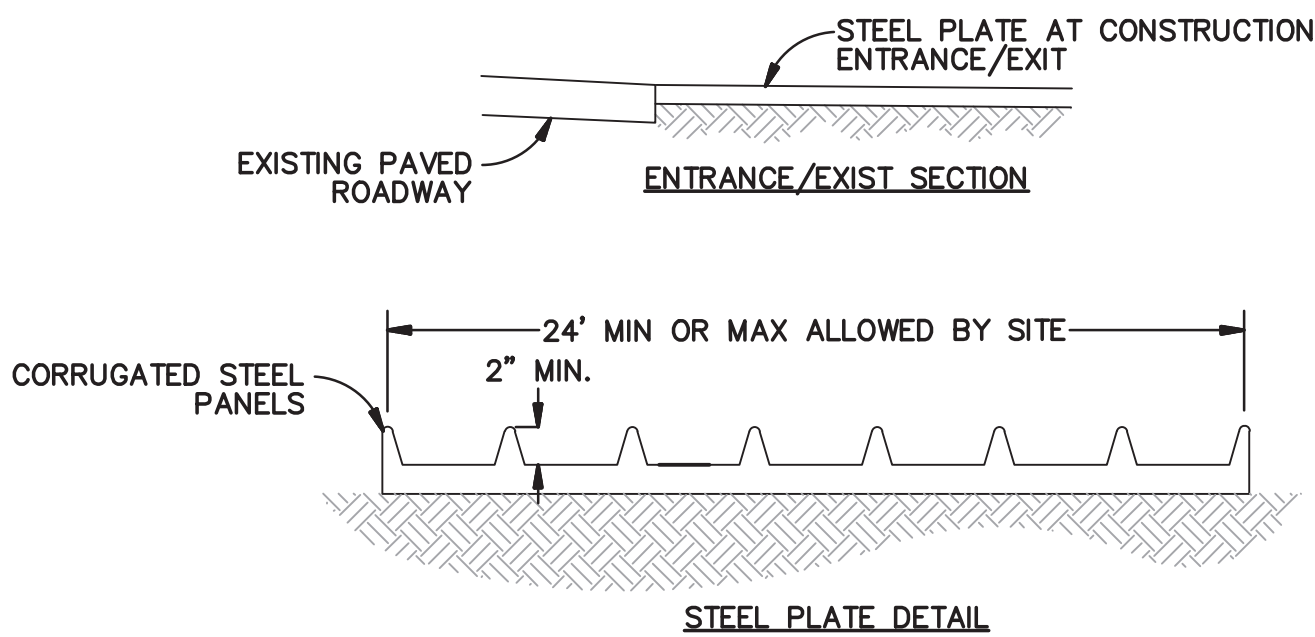


STABILIZED CONSTRUCTION ENTRANCE (TC-1) - DETAIL 2

SCALE: N.T.S.

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



TIRE WASH RACK (TC-3) - DETAIL 3

SCALE: N.T.S.



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2			
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DATE

MISSION SPRINGS WATER DISTRICT
STREET IMPROVEMENT PLAN
LITTLE MORONGO ROAD, 19TH AVENUE
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DRIVEWAY AND GRADING DETAILS

SECTION 14 TOWNSHIP 3 S RANGE 4 E

DWG. EC-2
2 OF 2
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